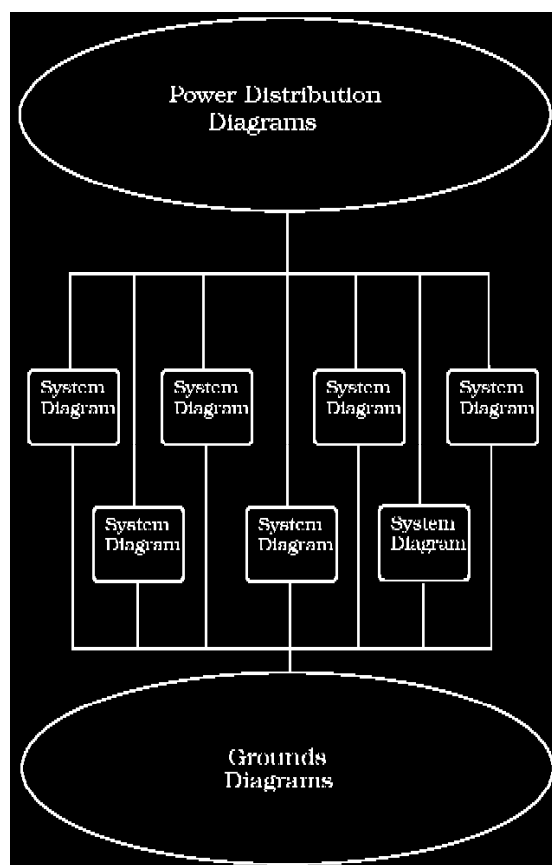


## Vehicle: Diagrams

### How To Find Wiring Diagrams

#### How ALLDATA Presents Ford Diagrams



#### Diagrams are presented in three main categories:

- ^ Power Distribution Diagrams
  - Circuits feeding/protecting the system diagrams
- ^ System Diagrams
  - Component Circuits that work together as a system
- ^ Grounds Diagrams
  - Circuits grounding the system diagrams

#### Power Distribution Diagrams

The power distribution diagrams are located at Power and Ground Distribution.

These diagrams are especially useful for identifying potential suspects that could be causing any "dead/unpowered" fuses and/or for identifying potential suspects that could be the causing any "blown" fuses.

#### System Diagrams

The system diagrams are located at the specific Alldata System/SubSystem that they apply to, such as Cruise Control, Powertrain Management, Radio/Stereo, etc.

These diagrams are useful for identifying a component's power source and its direct relationship to the other components in the same system. These diagrams may also indicate a component's indirect relationship with components in other systems.

#### Grounds Diagrams

The grounds diagrams are located at Power and Ground Distribution.

These diagrams are useful for determining the interconnections of the grounding circuits of different systems.

**PLEASE NOTE:** When locating diagrams by their ID numbers, some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

### How To Navigate Between Wiring Diagrams

Circuits that go from one diagram to another will be marked with references indicating which diagram the circuit went to/came from, i.e. "See Diagram ###-#".

These references will be in the form of unique diagram identification numbers (i.e. **15-3**, **70-4**, etc). All diagrams are identified with this unique ID number in their captions.

Diagrams being referred to that may reside outside of the set of diagrams you are viewing can be accessed by clicking on the hyperlink for "Diagrams By Number" which is provided with all sets of diagrams.

**PLEASE NOTE:** When locating diagrams by their ID numbers, some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

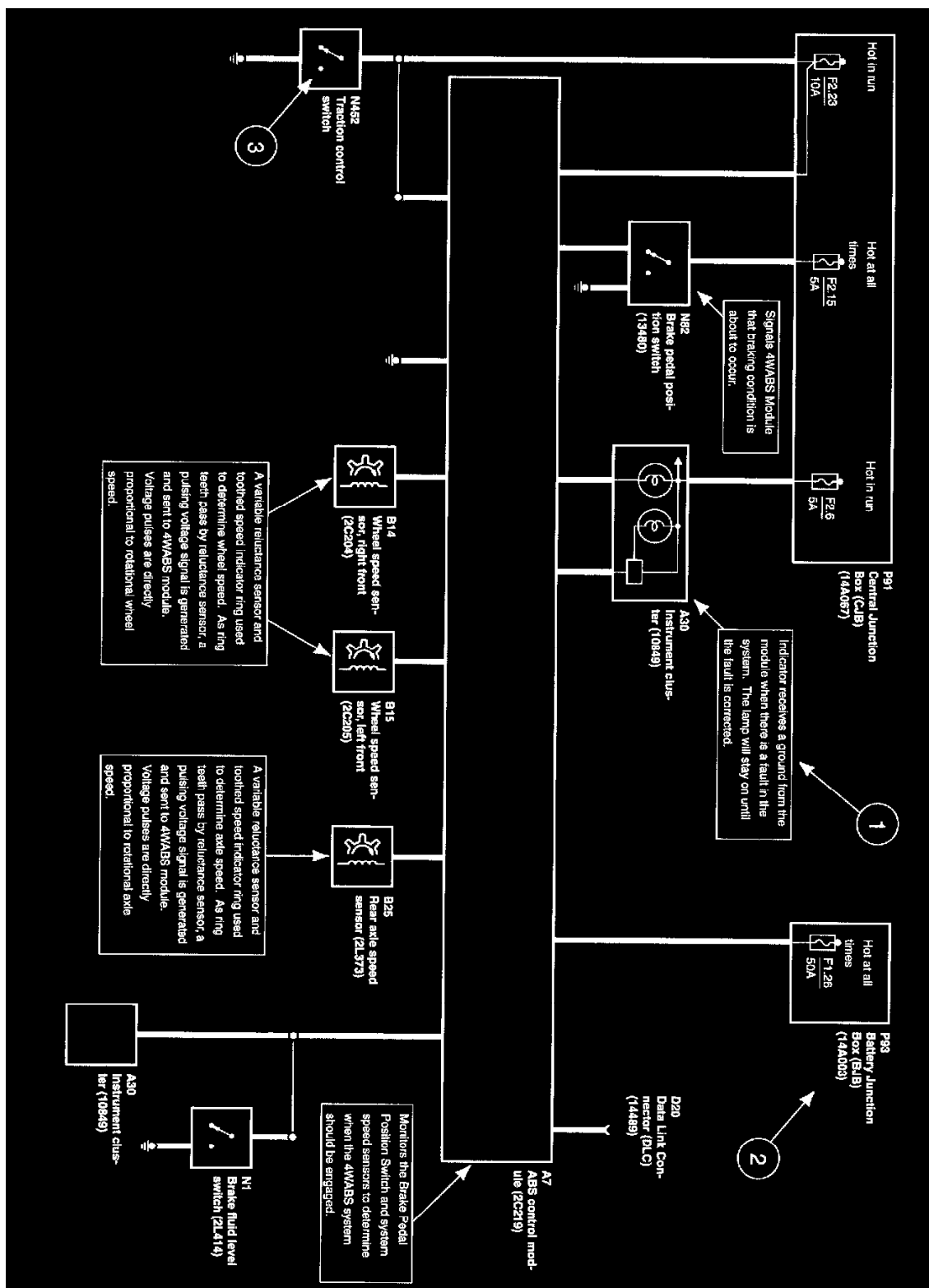
## Introduction To Ford Diagrams

### Note

All wiring connections between components are shown exactly as they exist in the vehicles. It is important to realize, however, that no attempt has been made on the diagram to represent components and wiring as they physically appear on the vehicle. For example, a **4-foot** length of wire is treated no differently in a diagram from one which is only a few inches long. Furthermore, to aid in understanding electrical (electronic) operation, wiring inside complicated components has been simplified.

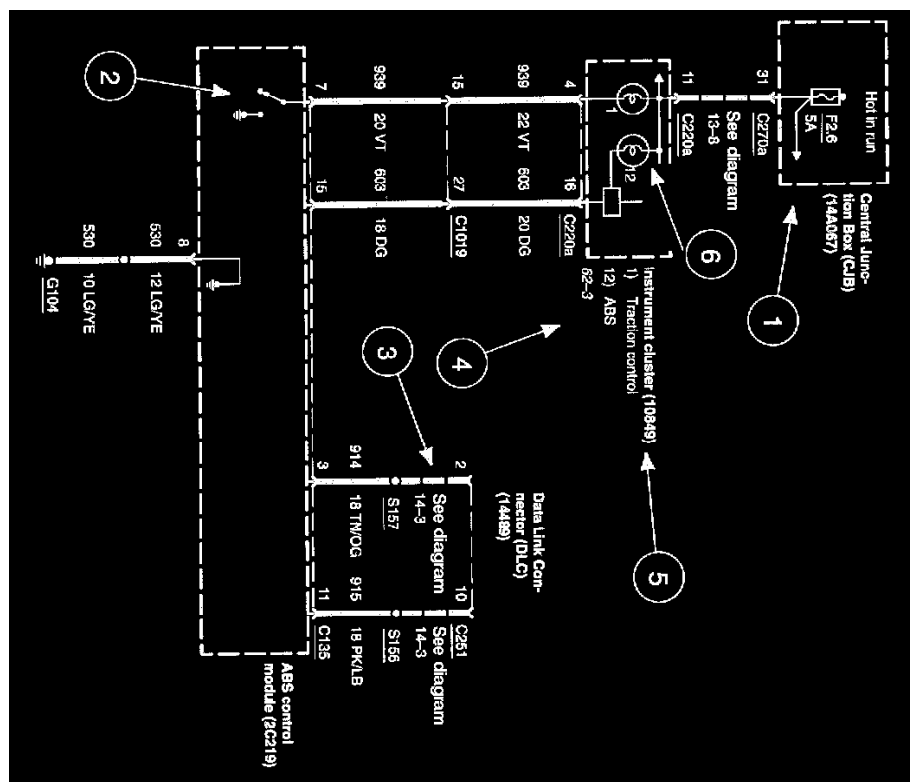
### Complete Circuit Operation

Each circuit is shown completely and independently in one set of diagrams. Other components which are connected to the circuit may not be shown unless they influence the circuit operation.



## System Overview

Each major vehicle system includes a complete system overview diagram prior to each set of diagrams. It is important to realize that this is only a high level overview of the complete system connectivity. It includes component operational information (1), component name and base part number (2), and basic component internals (3). It does not include specific circuit information, connector or pin numbers, splices or grounds. That information is found on the subsequent diagrams in the set.



### Current Flow (1)

Each set of diagrams normally starts with the component that powers the circuit such as a fuse or the ignition switch. Current flow is shown from the power source at the top of the diagram to ground at the bottom of the diagram. In order to concentrate on the essential parts, power supply and ground connections are sometimes simplified by a dashed line in the diagrams. A full representation of the power supply of a fuse or the power distribution from a fuse to various components is given in the Power and Ground Distribution Diagrams. Full representation of the ground connections are shown in the Power and Ground Distribution Diagrams.

### Switch Positions (2)

Within the diagram, all switches, sensors and relays are shown "at rest" (as if the Ignition Switch were OFF).

### Splices (3)

A dashed line indicates that the splice is not shown completely. A reference is given to the diagram where the splice appears in full.

### Component Referencing (4)

Each component on a diagram has a reference to the component location view for that component (i.e. 151-1, 151-10, etc.). These view references are located to the right of each component shown in a diagram. The views themselves can be found at Vehicle Locations.

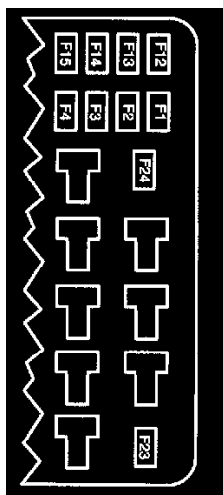
### Component Names, Notes and Base Part Numbers (5)

Component names are placed on the right hand side of each component. Any notes that describe switch positions or operating conditions follow the name. Descriptions of the internals of the component are also included here. The base part number for a component is listed in parentheses next to or under a component.

### Internal Name and Function ID Numbers (6)

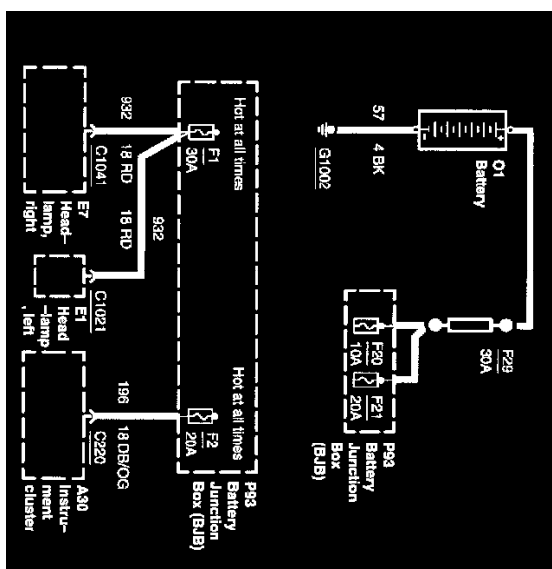
Some components on each diagram have internal symbols with an identification number located to the right. You can identify the internal symbol or function by finding the corresponding number under the component name.





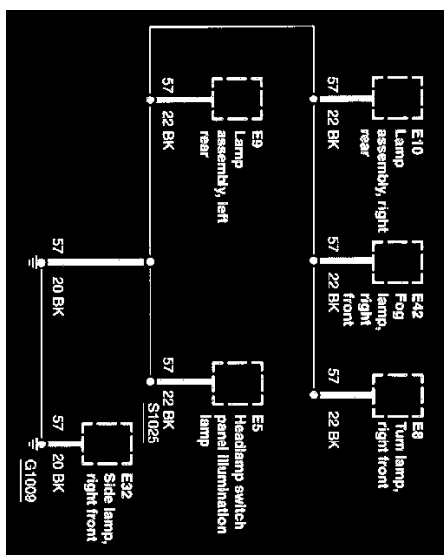
## Fuse and Relay Information

Fuse/Locations and Relay/Locations contains a view of the fuse/relay box in which all fuses and relays are identified.



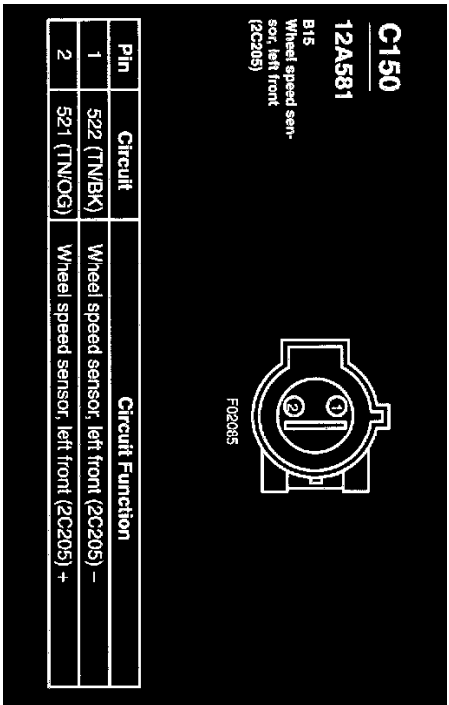
## Power Distribution

Power and Ground Distribution Diagrams show the current feed circuit. The current path is shown from the battery to the ignition switch and to all fuses. It also shows the circuits protected by each fuse. The circuit is traced from the fuse to the component. All details (wires, splices, connectors) between the fuse and the first component are shown.



## Ground Distribution

Power and Ground Distribution Diagrams contain the diagrams that show the complete details for each ground connection or main ground splice. This is useful in diagnosing a problem affecting several components at once (poor ground connection or ground splice). All details (wires, splices, connectors) between the ground point and the components are shown. These ground connection details are shown here in order to keep the individual set of diagrams as uncluttered as possible.



Component and Connector Information

Locations information that can be found at the vehicle level will help the user find where the various items depicted on the diagram can physically be found on the vehicle.

Component Location Views show the components and their connecting wires as they can be found on the vehicle.

"Connector Views" show the views of the pins and/or cavities of all connectors. The pin and cavity sides are shown separately as if the connector were disconnected. The color of the connector housing is indicated next to the connector number when available. The harness causal number is located above the connector view and below the connector number. The circuit function charts are located below each connector.

WARNINGS

- ^ Always wear safety glasses for eye protection.
- ^ Use safety stands whenever a procedure requires being under a vehicle.
- ^ Be sure that the Ignition Switch is always in the OFF position, unless otherwise required by the procedure.
- ^ Set the parking brake when working on any vehicle. An automatic transmission should be in PARK. A manual transmission should be in NEUTRAL.
- ^ Operate the engine only in a well-ventilated area to avoid danger of carbon monoxide.
- ^ Keep away from moving parts, especially the fan and belts, when the engine is running.
- ^ To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tailpipe, catalytic converter and muffler.
- ^ Do not allow flame or sparks near the battery. Gases are always present in and around the battery cell. An explosion could occur.
- ^ Do not smoke when working on a vehicle.
- ^ To avoid injury always remove rings, watches, loose hanging jewelry and avoid wearing loose clothing.

Location Key For Connectors, Grounds, and Splices

The first digit of every connector, ground, and splice references its location within the vehicle.

| NUMBER ..... | LOCATION                                                                   |
|--------------|----------------------------------------------------------------------------|
| 100 .....    | Engine compartment, Powertrain (including: axle/differential/transmission) |
| 200 .....    | Instrument Panel and Console, Steering Wheel assembly                      |
| 300 .....    | From instrument panel to rear seat, below door trim panel                  |
| 400 .....    | Behind rear seats, to rear bumper; Truck bed                               |
| 500 .....    | Driver door                                                                |
| 600 .....    | Passenger door, front                                                      |
| 700 .....    | Passenger door, left rear                                                  |
| 800 .....    | Passenger door, right rear                                                 |
| 900 .....    | Above door trim panel and headliner                                        |

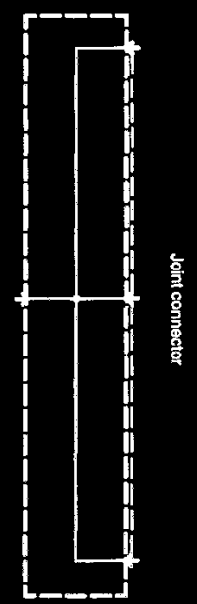
# Symbols and Wire Color Code Identification

|  |                                   |  |                                                                    |  |                                         |
|--|-----------------------------------|--|--------------------------------------------------------------------|--|-----------------------------------------|
|  | Distributed splice                |  | Entire component                                                   |  | Resistor or heating element             |
|  | Crossed wiring without connection |  | Part of a component                                                |  | Potentiometer (pressure or temperature) |
|  | Splice                            |  | Component case directly attached to metal part of vehicle (ground) |  | Potentiometer (outside influence)       |
|  | Removable connection              |  | Component with screw terminals                                     |  | Battery                                 |
|  | Ground                            |  | Connector attached to component                                    |  | Fuse                                    |
|  | Connector                         |  | Connector attached to component lead (pigtail)                     |  | Circuit breaker                         |
|  | Female connector                  |  |                                                                    |  | Heating element, Conductor loop         |
|  | Male connector                    |  |                                                                    |  |                                         |

Symbols Part 1

|                                                                                       |                                              |
|---------------------------------------------------------------------------------------|----------------------------------------------|
|    | Ignition coil assembly                       |
|    | Solenoid controlled valve or clutch solenoid |
|      | Light emitting diode (LED)                   |
|      | Capacitor                                    |
|      | Variable capacitor                           |
|      | Piezoelectric sensor                         |
|      | Coil                                         |
|    | Buzzer                                       |
|    | Air bag inflating contact (14A664)           |
|      | Diode, current flows in direction of arrow   |
|      | Transistor                                   |
|      | Lamp                                         |
|      | Bifilament lamp                              |
|      | Gauges                                       |
|  | Antenna                                      |
|  | Permanent magnet, one-speed-motor            |
|    | Permanent magnet, two-speed-motor            |
|    | Rotational sensor                            |
|    | Shield                                       |
|    | Signal horn or speaker                       |
|    | Fusible link                                 |

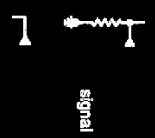
Symbols Part 2



| Wire colors |             |
|-------------|-------------|
| BK          | Black       |
| BN          | Brown       |
| BU          | Blue        |
| DB          | Dark blue   |
| DG          | Dark green  |
| GN          | Green       |
| GY          | Gray        |
| LB          | Light blue  |
| LG          | Light-green |
| NA          | Natural     |
| OG          | Orange      |
| PK          | Pink        |
| RD          | Red         |
| SR          | Silver      |
| TN          | Tan         |
| VT          | Violet      |
| WH          | White       |
| YE          | Yellow      |



VBATT Battery voltage



VPWR Switched or module voltage



SCP + Standard Corporate Protocol (SCP) data +



SCP - Standard Corporate Protocol (SCP) data -

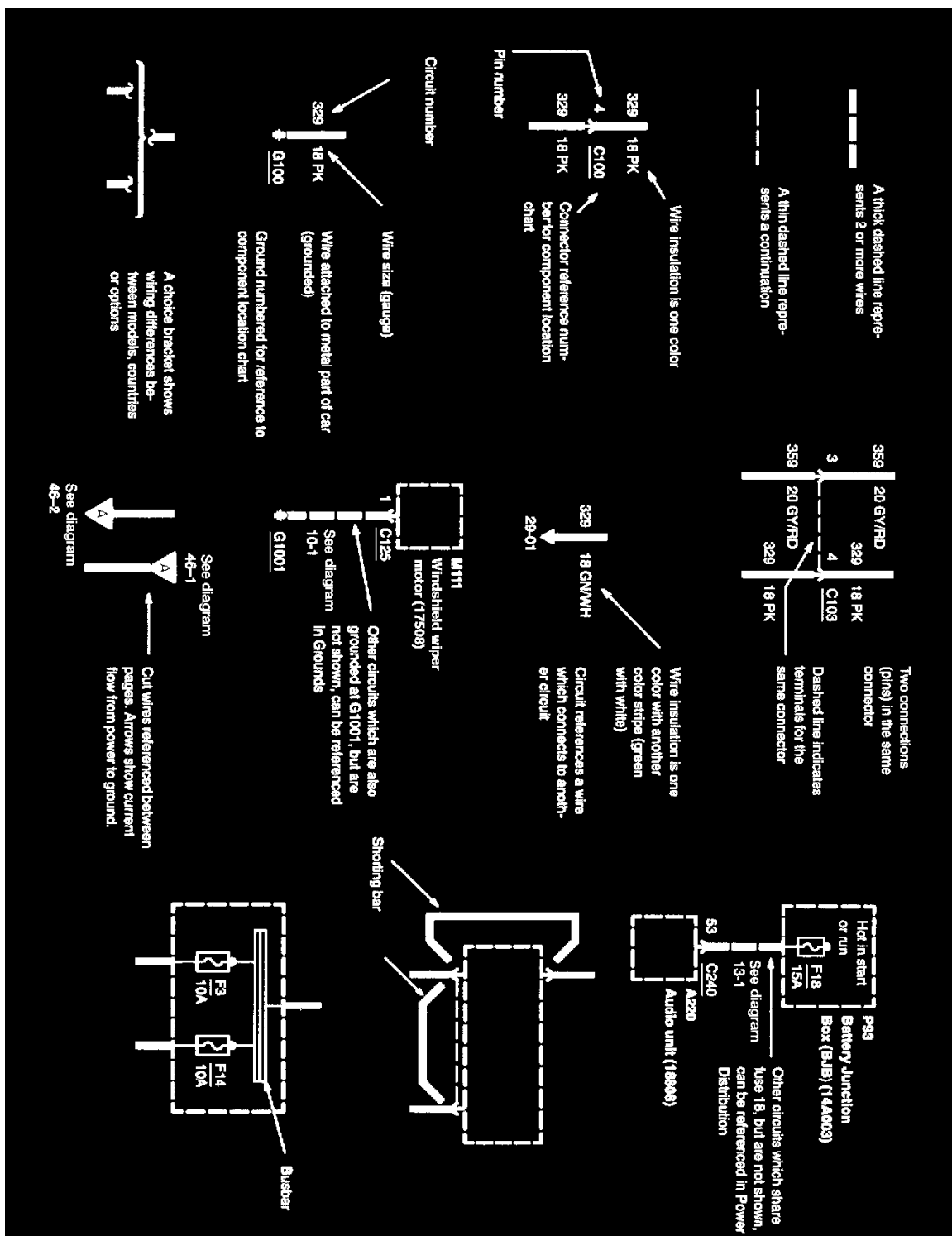


ISO Data bus ISO 9141 (K-line)



Country code

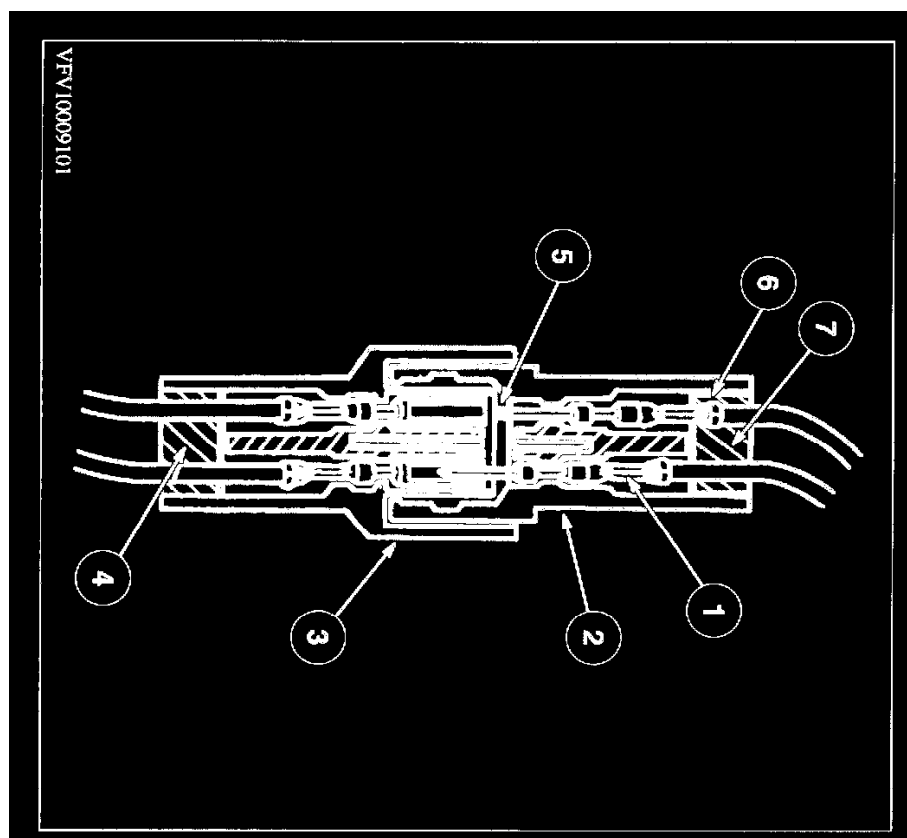




Symbols Part 4



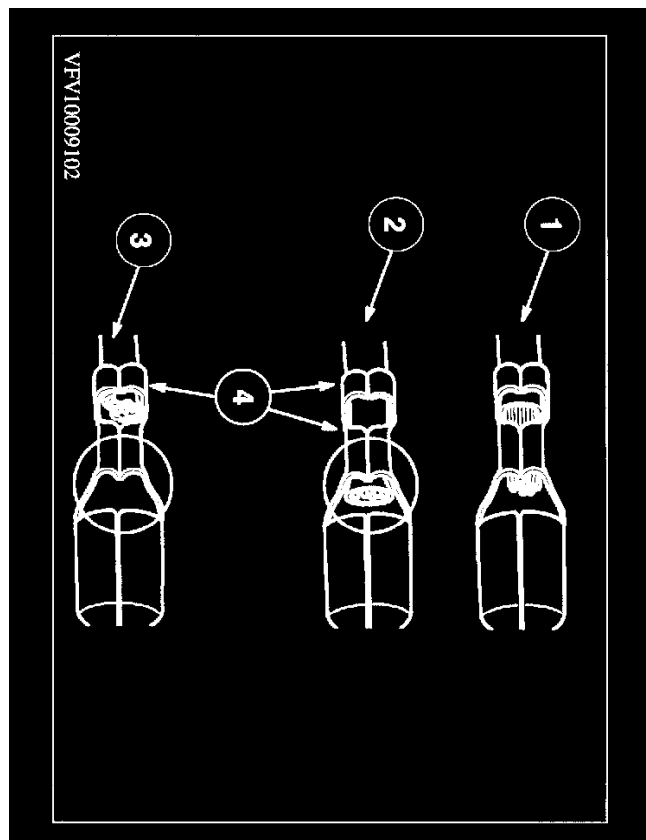
**NOTE:** Several components, such as the Powertrain Control Module (**PCM**), utilize gold plated terminals in their connections to the wiring harness. If those terminals need to be replaced, they must be replaced with a gold plated terminal.

**Terminal not properly seated**

- 1 Locked terminal
- 2 Male half
- 3 Female half
- 4 Seal
- 5 Intermittent contact
- 6 Unlocked terminal (Hidden by wire seal)
- 7 Seal

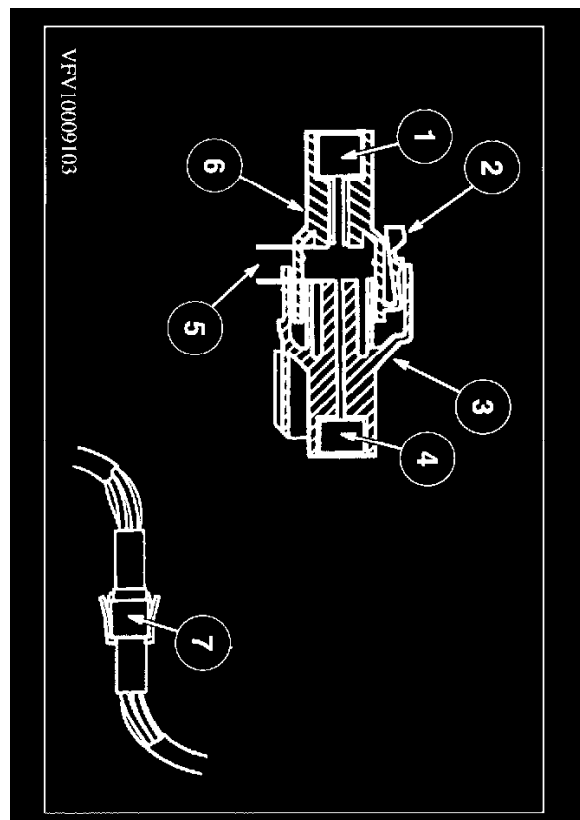
Check for unlocked terminals by pulling each wire at the end of the connector.





#### Defective insulation stripping

- 1 Proper crimp
- 2 Insulation not removed
- 3 Wire strands missing
- 4 Intermittent signals through pierced insulation

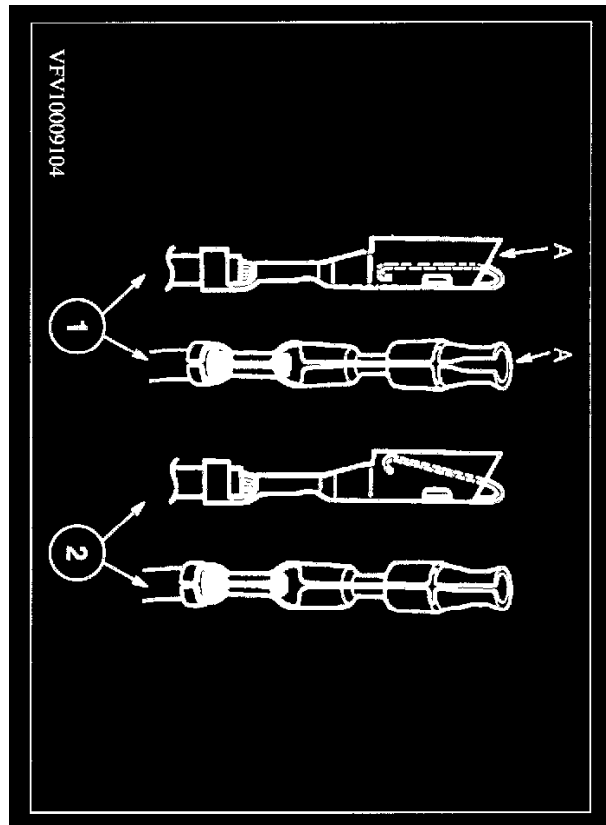


#### Partially mated connectors

- 1 Seal
- 2 Displaced tab

- 3 Female half
- 4 Seal
- 5 Intermittent contact
- 6 Male half
- 7 Intermittent contact

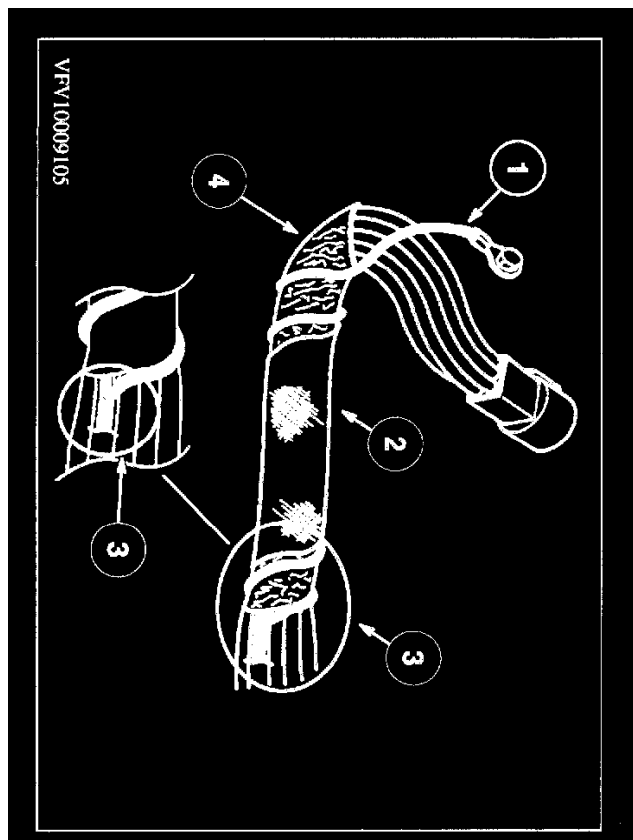
Lock may be displaced into an unlocked position; pull on the connector to verify the lock.



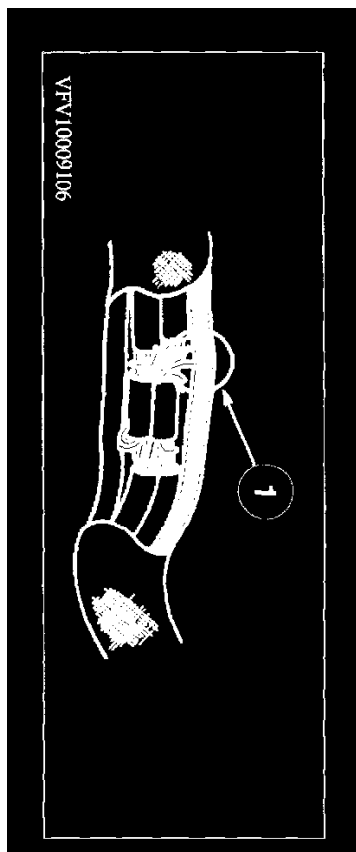
#### Deformed (enlarged) female terminals

- 1 Enlarged
- 2 Normal

Any probe entering the terminal may enlarge the contact spring opening creating an intermittent signal. Insert the correct mating terminal (Location A) from the service kit and feel for a loose fit.

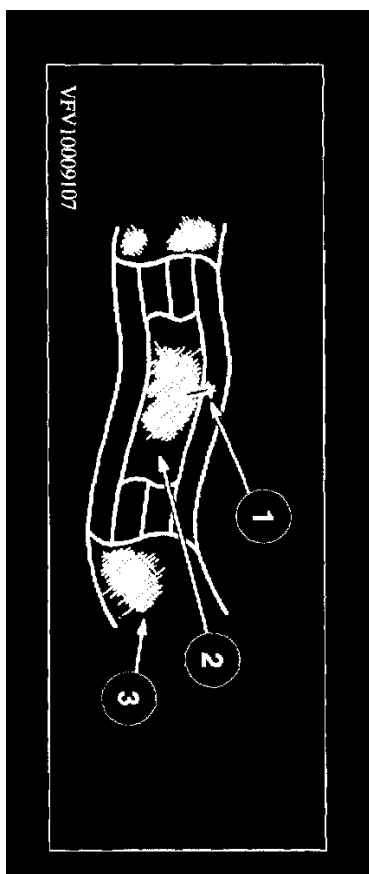
**Electrical short inside the harness**

- 1 Solder coated wire to ground
- 2 Harness protective tape
- 3 Intermittent short  
Solder coated wire pierced through the insulation of another circuit
- 4 Grounding foil

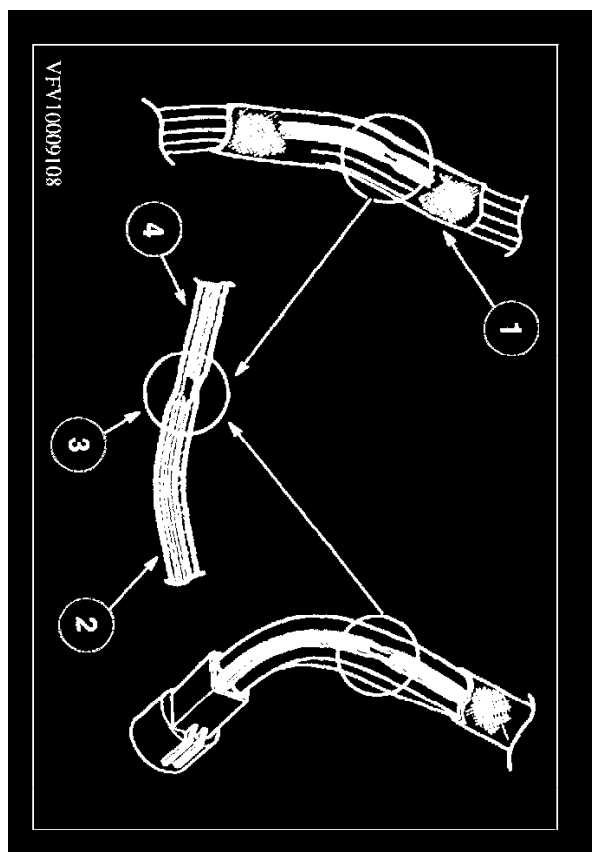
**Electrical short within the harness**

**Splice tape removed**

- 1 Intermittent short

**Splice covered**

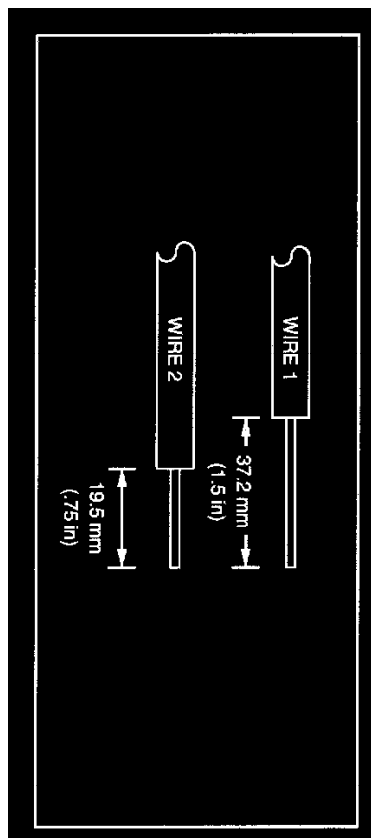
- 1 Wire strand  
2 Splice tape  
3 Harness tape

**Broken wire strands in harness**

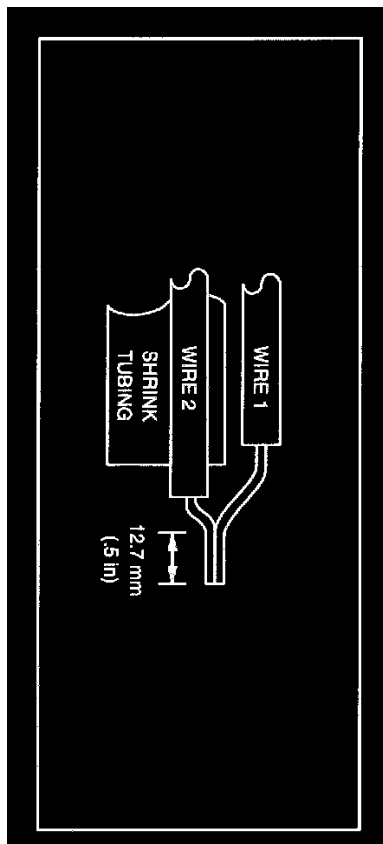
- 1 Wiring harness tape
- 2 Wiring strand
- 3 Broken strands intermittent signal
- 4 Circuit insulation

Remove the tape and flex/feel each circuit for a reduction in diameter at break.

**Recommended splicing method**

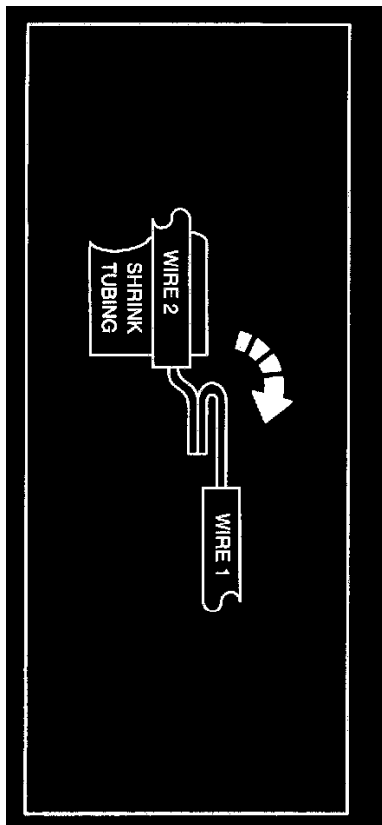


1. Disconnect battery ground cable.
2. Strip wires to appropriate length.



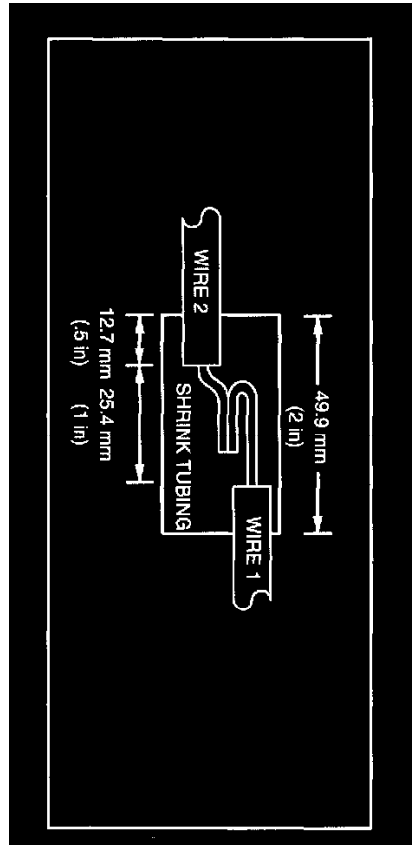
3. Install heat shrink tubing.
4. Twist wires together.
5. Solder wires together.

**NOTE:** Use Rosin Core Mildly-Activated (**RMA**) solder. Do not use acid core solder.



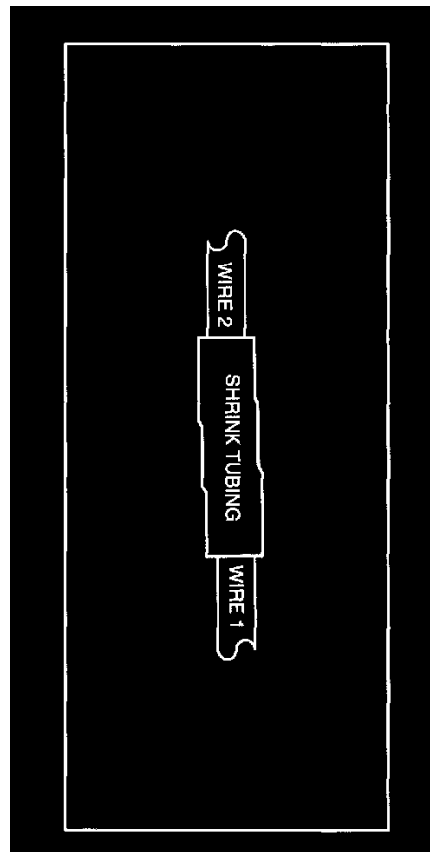
6. Bend Wire 1 back in a straight line.

**NOTE:** Wait for solder to cool before moving wires.



7. Evenly position heat shrink tubing over wire repair.

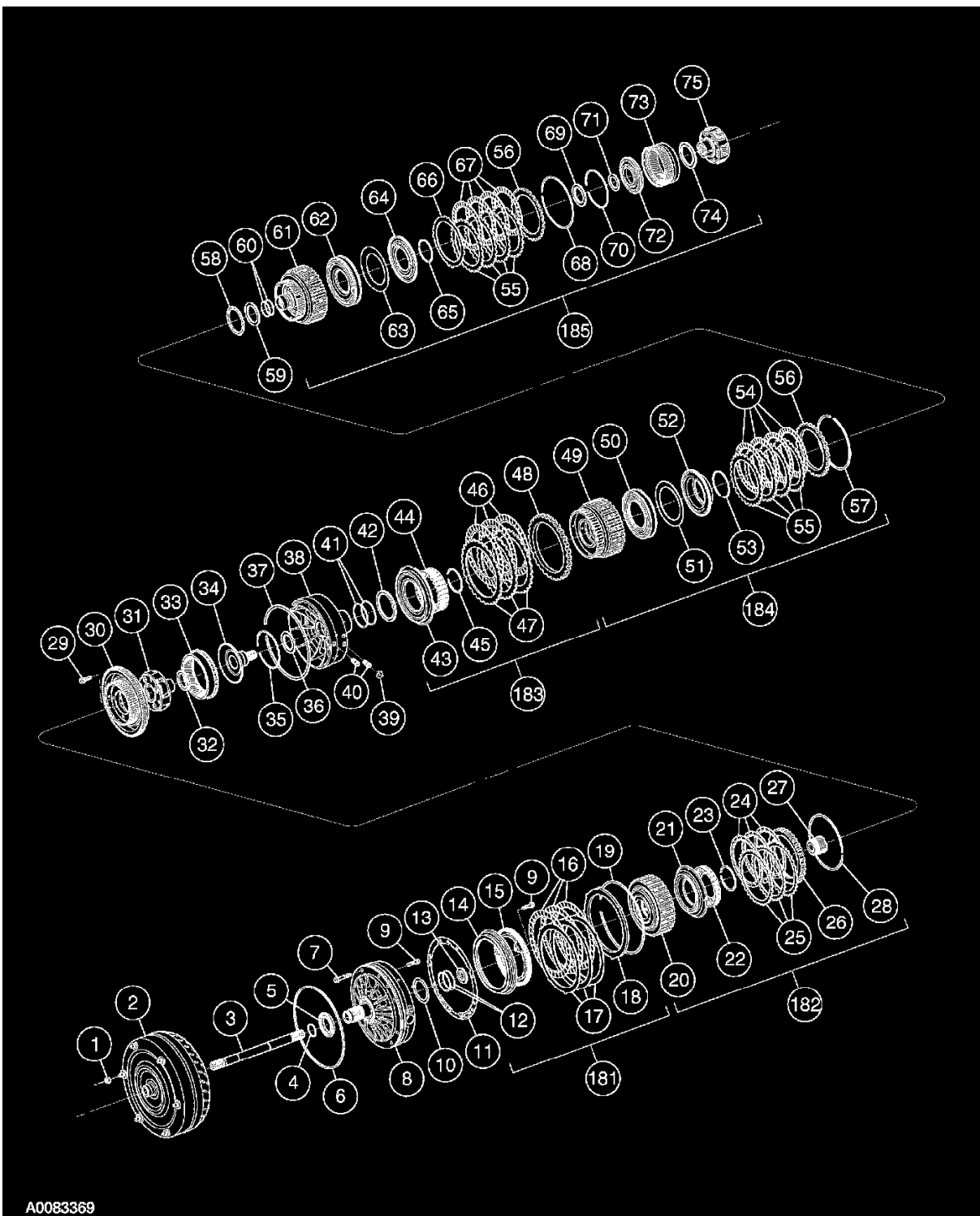
**NOTE:** Overlap tubing on both wires.



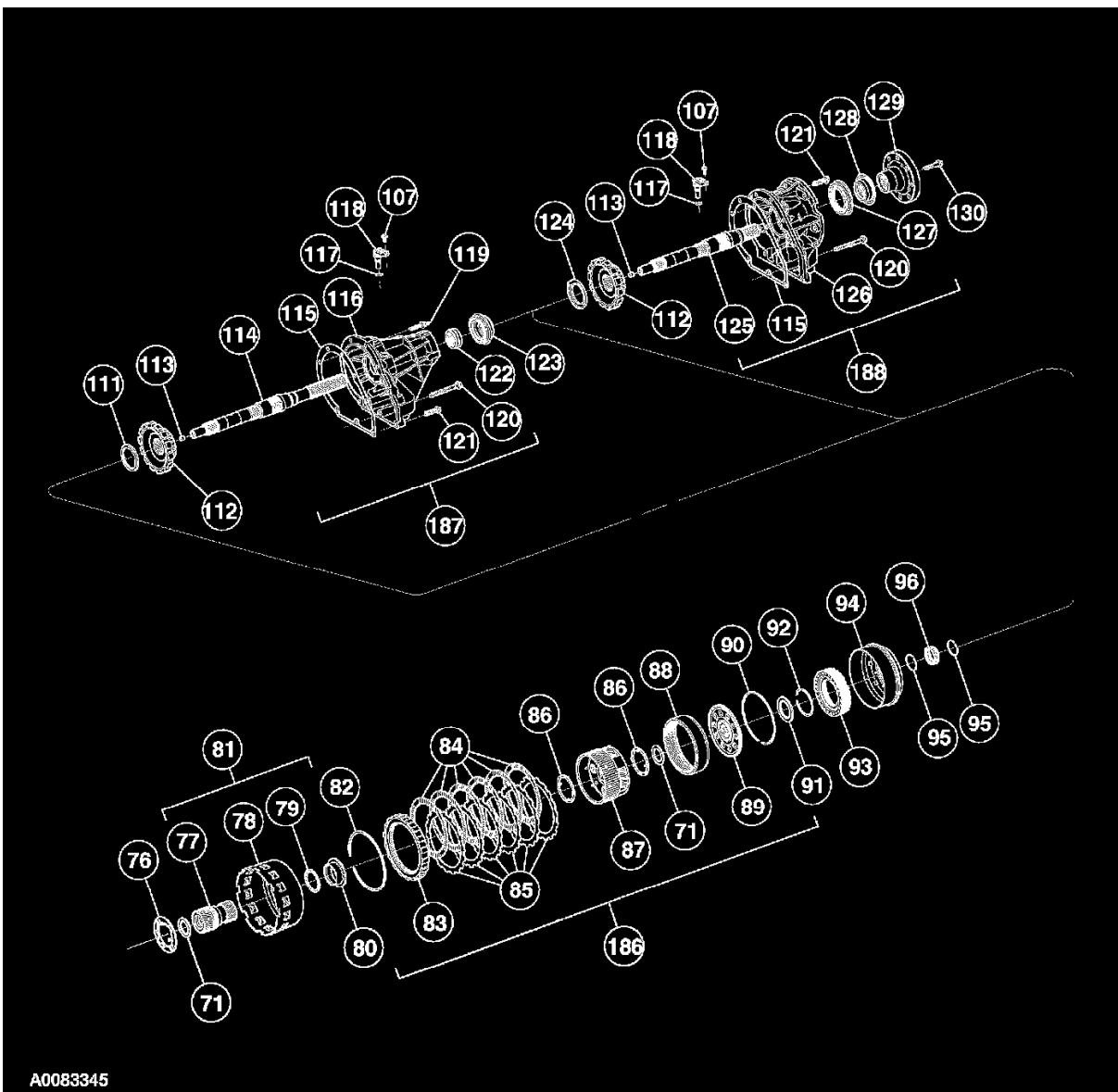
8. Use heat gun to heat the repaired area until adhesive flows out of both ends of heat shrink tubing.
9. Reconnect battery ground cable.

## Disassembled Views

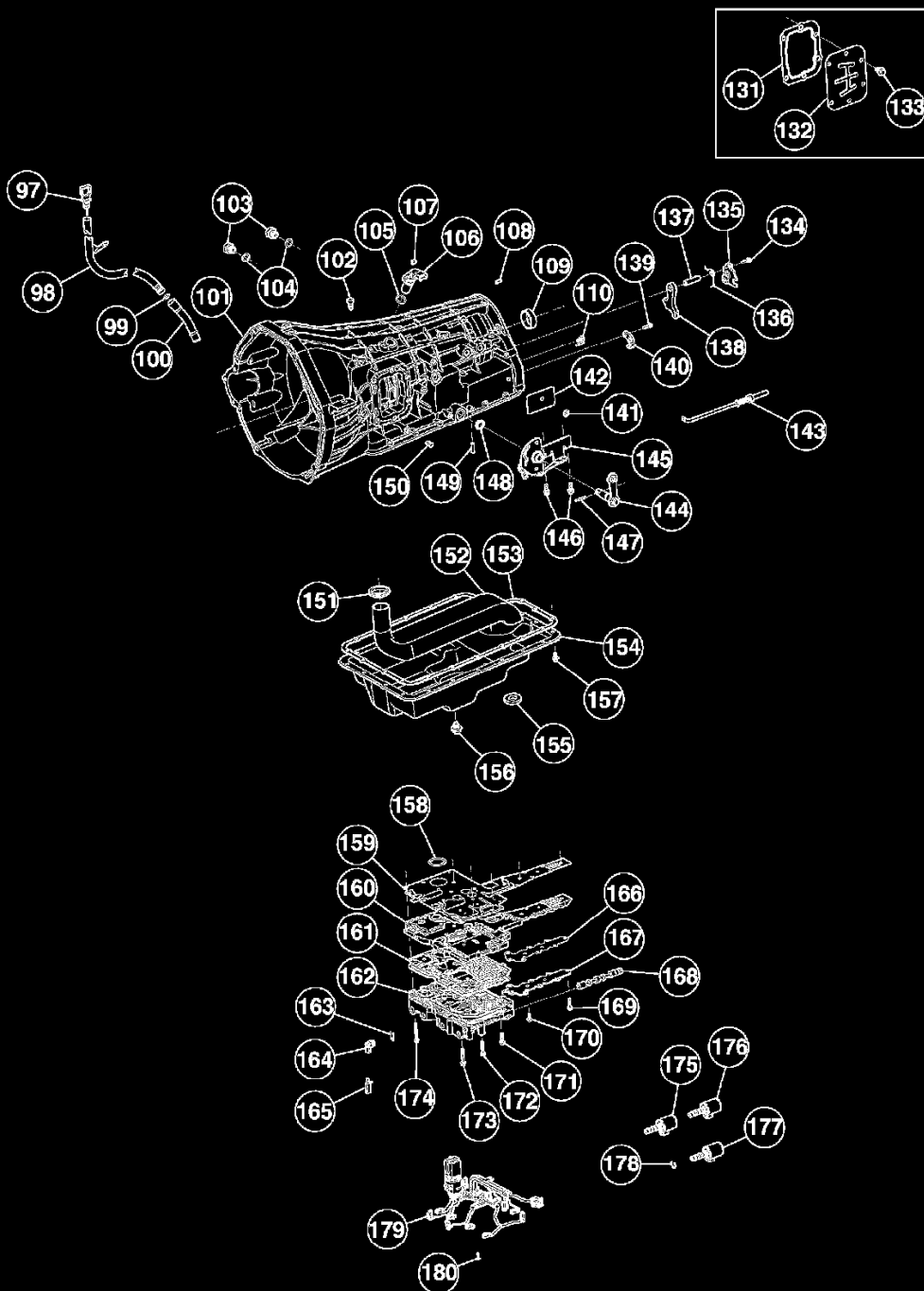




Disassembled Views



Transmission, Disassembled View



A0083346

Part 1

| Item | Description                                                       |
|------|-------------------------------------------------------------------|
| 1    | Flexplate-to-torque converter nut                                 |
| 2    | Torque converter assembly (model dependent)                       |
| 3    | Shaft — input                                                     |
| 4    | Seal — stator support                                             |
| 5    | Seal — front pump support                                         |
| 6    | Seal — front pump                                                 |
| 7    | Bolt — M8 x 70 hex flange head                                    |
| 8    | Pump assembly — front                                             |
| 9    | Bolt — M8 x 1.25 x 45 — front pump                                |
| 10   | Washer — front pump support No. 1T                                |
| 11   | Gasket — front pump                                               |
| 12   | Seal — coast clutch (2 required)                                  |
| 13   | Race and bearing assembly — sun gear thrust No. 2B and 3B         |
| 14   | Piston — overdrive clutch                                         |
| 15   | Spring — overdrive clutch piston return                           |
| 16   | Plate — overdrive clutch internal spline — friction               |
| 17   | Plate — overdrive clutch external spline — steel                  |
| 18   | Plate — overdrive clutch pressure                                 |
| 19   | Ring — overdrive clutch press plate retaining                     |
| 20   | Cylinder and bushing assembly — coast clutch                      |
| 21   | Piston — coast clutch                                             |
| 22   | Spring — coast clutch return                                      |
| 23   | Ring — coast clutch spring retaining                              |
| 24   | Plate — coast clutch internal spline — friction (model dependent) |
| 25   | Plate — coast clutch external spline — steel (model dependent)    |
| 26   | Clutch assembly — coast one-way                                   |
| 27   | Gear — overdrive sun                                              |
| 28   | Ring — 172.5 retainer internal style No. 2                        |

## Part 2

| Item | Description                                            |
|------|--------------------------------------------------------|
| 29   | Bolt — coast clutch hub (4 required)                   |
| 30   | Hub assembly — input coast clutch                      |
| 31   | Gear assembly — overdrive planetary                    |
| 32   | Bearing and race assembly — direct clutch No. 4B       |
| 33   | Gear — overdrive ring                                  |
| 34   | Shaft — overdrive center                               |
| 35   | Ring — center support retaining                        |
| 36   | Bearing and race assembly — sun gear thrust No. 5B     |
| 37   | Ring — overdrive ring gear retaining                   |
| 38   | Support assembly — center                              |
| 39   | Valve — transmission manual control                    |
| 40   | Bolt — M12 x 1.75 x 31 hex flange head (2 required)    |
| 41   | Seals — Teflon® (2 required)                           |
| 42   | Washer — center support thrust No. 6T                  |
| 43   | Piston — intermediate clutch                           |
| 44   | Support and spring assembly — intermediate clutch      |
| 45   | Ring — intermediate clutch spring                      |
| 46   | Plate — intermediate clutch internal spline (friction) |
| 47   | Plate — intermediate clutch external spline (steel)    |
| 48   | Plate — intermediate clutch pressure                   |
| 49   | Cylinder and hub assembly — direct clutch              |
| 50   | Piston assembly — direct clutch                        |
| 51   | Spring — direct clutch piston return                   |
| 52   | Piston — direct clutch balance                         |
| 53   | Ring — direct clutch balance piston retaining          |
| 54   | Plate — direct clutch internal spline — friction       |
| 55   | Plate — direct clutch external spline — steel          |

**Part 3**

| Item | Description                                                   |
|------|---------------------------------------------------------------|
| 56   | Plate — direct clutch pressure                                |
| 57   | Ring — direct clutch plate retaining (selective fit)          |
| 58   | Washer — intermediate brake thrust No. 7T                     |
| 59   | Bearing assembly — intermediate clutch No. 8B                 |
| 60   | Seal — forward clutch cylinder (2 required)                   |
| 61   | Cylinder assembly — forward clutch                            |
| 62   | Piston assembly — forward clutch                              |
| 63   | Spring — forward clutch piston return                         |
| 64   | Piston assembly — forward clutch balance                      |
| 65   | Ring — forward clutch balance piston retaining                |
| 66   | Spring — forward clutch cushion                               |
| 67   | Plate — forward clutch internal spline — friction             |
| 68   | Ring — forward clutch plate retaining (selective fit)         |
| 69   | Washer — forward clutch hub thrust No. 9T                     |
| 70   | Ring — retaining (forward ring gear)                          |
| 71   | Bearing and race assembly — sun gear thrust No. 10B, 12B, 15B |
| 72   | Hub and bushing assembly — forward ring gear                  |
| 73   | Gear — forward ring                                           |
| 74   | Bearing and race assembly — forward carrier No. 11B           |
| 75   | Planet assembly — forward                                     |
| 76   | Lube dam — forward carrier                                    |
| 77   | Gear assembly — forward/reverse sun                           |
| 78   | Shell — input                                                 |
| 79   | Ring — forward/reverse sun shell retaining                    |
| 80   | Spacer — sun gear shell                                       |
| 81   | Shell and sun gear assembly                                   |
| 82   | Ring — reverse clutch pressure plate — retaining              |

#### Part 4

| Item | Description                                                       |
|------|-------------------------------------------------------------------|
| 83   | Clutch assembly — low one way                                     |
| 84   | Plate — reverse clutch internal spline — friction                 |
| 85   | Plate — reverse clutch external spline — steel                    |
| 86   | Washer — planet carrier thrust No. 13T/14T                        |
| 87   | Planet assembly — reverse                                         |
| 88   | Gear — output shaft ring                                          |
| 89   | Hub — output shaft ring gear                                      |
| 90   | Ring — retaining (reverse ring gear)                              |
| 91   | Bearing and race assembly No. 16B                                 |
| 92   | Ring — reverse clutch spring retaining                            |
| 93   | Retainer and spring assembly — reverse clutch                     |
| 94   | Piston — reverse clutch                                           |
| 95   | Seal — Teflon®                                                    |
| 96   | Seal assembly — intermediate brake drum                           |
| 97   | Indicator — fluid level                                           |
| 98   | Tube assembly — fluid fill                                        |
| 99   | O-ring                                                            |
| 100  | Tube — fluid inlet short                                          |
| 101  | Case assembly                                                     |
| 102  | Vent assembly — case                                              |
| 103  | Cooler line — case fitting                                        |
| 104  | O-ring — cooler connector                                         |
| 105  | O-ring — sensor                                                   |
| 106  | Sensor — turbine shaft speed (TSS)                                |
| 107  | Bolt — M6 x 1 x 15.2                                              |
| 108  | Valve — air bleed check                                           |
| 109  | Snubber — output shaft                                            |
| 110  | Plug — case oil filler                                            |
| 111  | Bearing assembly — parking gear needle thrust (slip yoke) No. 17B |
| 112  | Gear — output shaft parking                                       |
| 113  | Plug cup                                                          |
| 114  | Shaft — output (slip yoke)                                        |
| 115  | Gasket — extension housing                                        |
| 116  | Extension assembly — slip yoke                                    |

## Part 5

| Item | Description                                          |
|------|------------------------------------------------------|
| 117  | O-ring — output shaft speed sensor                   |
| 118  | Sensor — output shaft                                |
| 119  | Stud — M6 x 1 1-M10 x 1.563 extension housing        |
| 120  | Bolt — M10 x 1.5 x 93.5 extension housing            |
| 121  | Bolt — M10 x 1.5 x 40 extension housing              |
| 122  | Seal — output shaft spline                           |
| 123  | Seal assembly — extension housing (4x2)              |
| 124  | Washer — parking gear thrust fixed yoke No. 17T      |
| 125  | Shaft — output fixed yoke                            |
| 126  | Extension assembly — fixed yoke                      |
| 127  | Seal assembly — extension housing (4x4)              |
| 128  | Retainer assembly — transmission output shaft        |
| 129  | Flange — drive shaft (4x4)                           |
| 130  | Bolt — M12 x 55 drive flange                         |
| 131  | PTO — cover gasket                                   |
| 132  | PTO — case cover                                     |
| 133  | Bolt — M10 1.5 x 24 hex flange head                  |
| 134  | Screw and washer — M8 x 1.25 x 23.5 hex (2 required) |
| 135  | Plate — parking rod guide                            |
| 136  | Spring — parking pawl return                         |
| 137  | Pin — 0.5 x 1.91 dowel ground hardened               |
| 138  | Pawl — parking                                       |
| 139  | Screw — M8 x 1.25 x 25 pan head                      |
| 140  | Abutment — parking pawl                              |
| 141  | Spring nut                                           |
| 142  | Tag — transmission service identification            |
| 143  | Rod assembly — parking pawl actuating                |
| 144  | Lever assembly — manual control (model dependent)    |
| 145  | Transmission range detent assembly                   |

**Part 6**



| Item | Description                                                         |
|------|---------------------------------------------------------------------|
| 146  | Bolt — M6 x 1.0 x 15.2 hex flange head transmission range           |
| 147  | Pin — shaft retaining                                               |
| 148  | Seal — manual lever                                                 |
| 149  | Roll pin — manual control lever to case                             |
| 150  | Plug — line pressure                                                |
| 151  | Seal — filter                                                       |
| 152  | Filter and seal assembly                                            |
| 153  | Gasket — fluid pan                                                  |
| 154  | Fluid pan                                                           |
| 155  | Ceramic magnet — fluid pan                                          |
| 156  | Plug — fluid pan drain                                              |
| 157  | Bolt — fluid pan                                                    |
| 158  | O-ring — bulkhead connector                                         |
| 159  | Gasket — control valve body                                         |
| 160  | Ditch plate                                                         |
| 161  | Gasket — filter plate                                               |
| 162  | Manifold body                                                       |
| 163  | W-clip — pressure switch plug                                       |
| 164  | Switch — pressure (if equipped)                                     |
| 165  | Sensor — transmission fluid temperature (TFT)                       |
| 166  | Gasket — backing plate                                              |
| 167  | Backing plate                                                       |
| 168  | Valve — manual                                                      |
| 169  | Bolt — M6 x 1 x 30 hex head (5 required)                            |
| 170  | Bolt — M6 x 15.2 solenoid backing plate-to-ditch plate (5 required) |
| 171  | Bolt — M6 x 27.5 solenoid manifold-to-ditch plate (3 required)      |
| 172  | Bolt — M6 x 1.0 x 42.5 hex flange head (3 required)                 |
| 173  | Bolt — M6 x 55 solenoid manifold-to-ditch plate (1 required)        |
| 174  | Bolt — M6 x 68 hex flange (13 required)                             |
| 175  | Solenoid — line pressure (VFS)                                      |

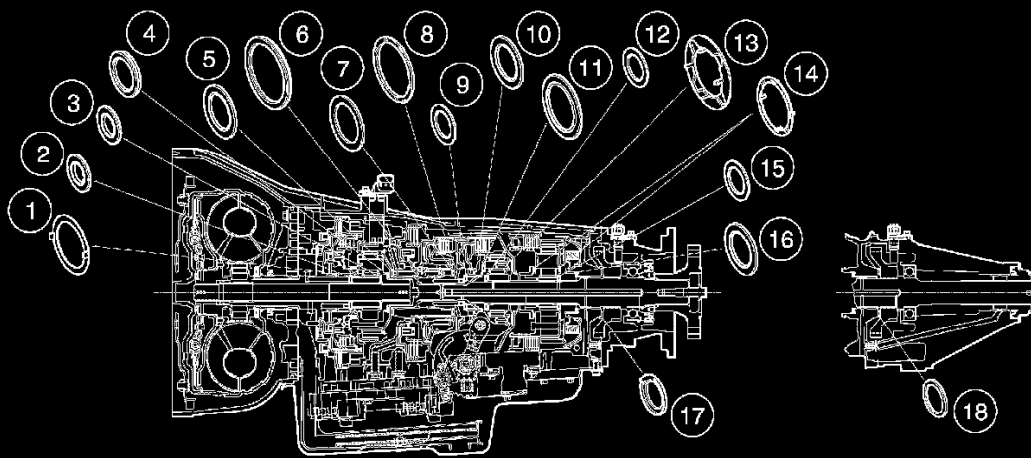
**Part 7**

| Item | Description                                            |
|------|--------------------------------------------------------|
| 176  | Solenoid — directly proportional (VFS) (4 required)    |
| 177  | Solenoid — inversely proportional (VFS) (2 required)   |
| 178  | E-clip — VFS (7 required)                              |
| 179  | Wiring harness                                         |
| 180  | Bolt — T25 holds wire harness to manifold (2 required) |

**Part 8**

| Item | Description                        |
|------|------------------------------------|
| 181  | Overdrive clutch assembly          |
| 182  | Coast clutch assembly              |
| 183  | Intermediate clutch assembly       |
| 184  | Direct clutch assembly             |
| 185  | Forward clutch assembly            |
| 186  | Reverse clutch assembly            |
| 187  | Extension housing 4x2 (slip yoke)  |
| 188  | Extension housing 4x4 (fixed yoke) |

**Part 9****Transmission, Disassembled View**

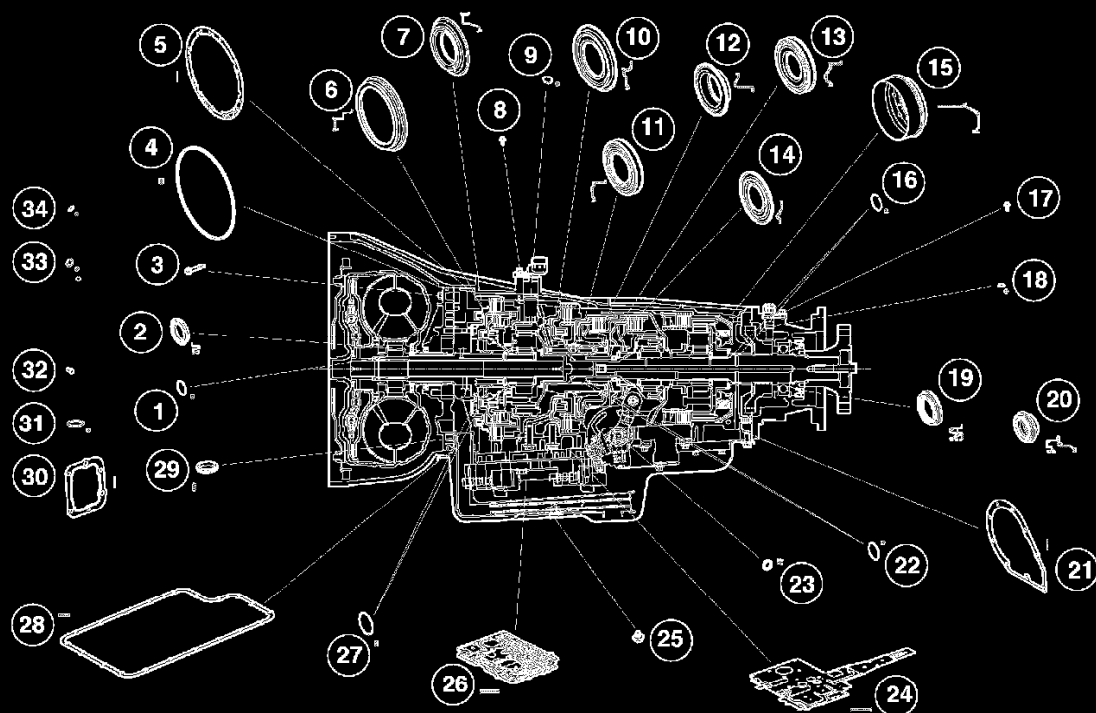


A0062542

| Item | Description                                                 |
|------|-------------------------------------------------------------|
| 1    | Front pump support washer No. 1T                            |
| 2    | Sun gear thrust bearing and race assembly No. 2B and 3B     |
| 3    | Part of the overdrive carrier                               |
| 4    | Direct clutch bearing and race assembly No. 4B              |
| 5    | Sun gear thrust bearing and race assembly No. 5B            |
| 6    | Center support thrust washer                                |
| 7    | Intermediate clutch thrust bearing No. 8B                   |
| 8    | Intermediate brake thrust washer                            |
| 9    | Sun gear thrust bearing and race assembly No. 10B, 12B, 15B |

| Item | Description                                                 |
|------|-------------------------------------------------------------|
| 10   | Forward clutch hub thrust washer No. 9T                     |
| 11   | Forward carrier bearing and race assembly No. 11B           |
| 12   | Sun gear thrust bearing and race assembly No. 10B, 12B, 15B |
| 13   | Forward carrier lube dam                                    |
| 14   | Planetary carrier thrust washer                             |
| 15   | Sun gear thrust bearing and race assembly No. 10B, 12B, 15B |
| 16   | Bearing and race assembly No. 16B                           |
| 17   | Park gear thrust washer (fixed yoke)                        |
| 18   | Park gear thrust bearing (slip yoke)                        |

## Seals, Rings and Gasket Locator



A0083340

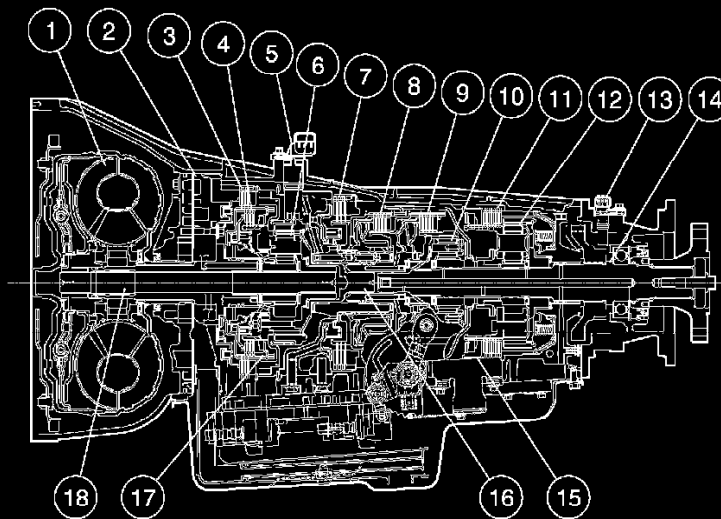
| Item | Description                                                          |
|------|----------------------------------------------------------------------|
| 1    | Stator support seal                                                  |
| 2    | Front pump support seal assembly                                     |
| 3    | Pump-to-case bolts                                                   |
| 4    | Front pump seal-to-case                                              |
| 5    | Front pump-to-case gasket                                            |
| 6    | Overdrive clutch piston                                              |
| 7    | Coast clutch piston                                                  |
| 8    | Sensor-to-case retaining bolt                                        |
| 9    | Turbine shaft speed (TSS) and intermediate shaft speed sensor O-ring |
| 10   | Intermediate clutch piston                                           |
| 11   | Direct clutch piston                                                 |
| 12   | Direct clutch balance piston                                         |
| 13   | Forward clutch piston                                                |
| 14   | Forward clutch balance piston                                        |
| 15   | Reverse clutch piston                                                |

| Item | Description                               |
|------|-------------------------------------------|
| 16   | Case seal pack Teflon® seals              |
| 17   | Sensor-to-case retaining bolt             |
| 18   | Output shaft speed (OSS) sensor O-ring    |
| 19   | Fixed yoke extension housing seal         |
| 20   | Slip yoke extension housing seal          |
| 21   | Extension housing-to-case gasket          |
| 22   | Forward clutch piston Teflon® seals       |
| 23   | Manual lever-to-case                      |
| 24   | Solenoid body to case gasket              |
| 25   | Transmission fluid pan drain plug         |
| 26   | Manifold-to-ditch plate filter and gasket |
| 27   | Coast clutch Teflon® seals                |

## Part 1

| Item | Description                            | Item | Description                                 |
|------|----------------------------------------|------|---------------------------------------------|
| 28   | Transmission fluid pan-to-case gasket  | 31   | Solenoid body bulkhead electrical connector |
| 29   | Transmission fluid filter-to-case seal | 32   | Line pressure pipe plug                     |
| 30   | Power take off (PTO) cover gasket      | 33   | Cooler line connector O-ring                |
|      |                                        | 34   | Fluid fill tube-to-stub seal                |

## Part 2

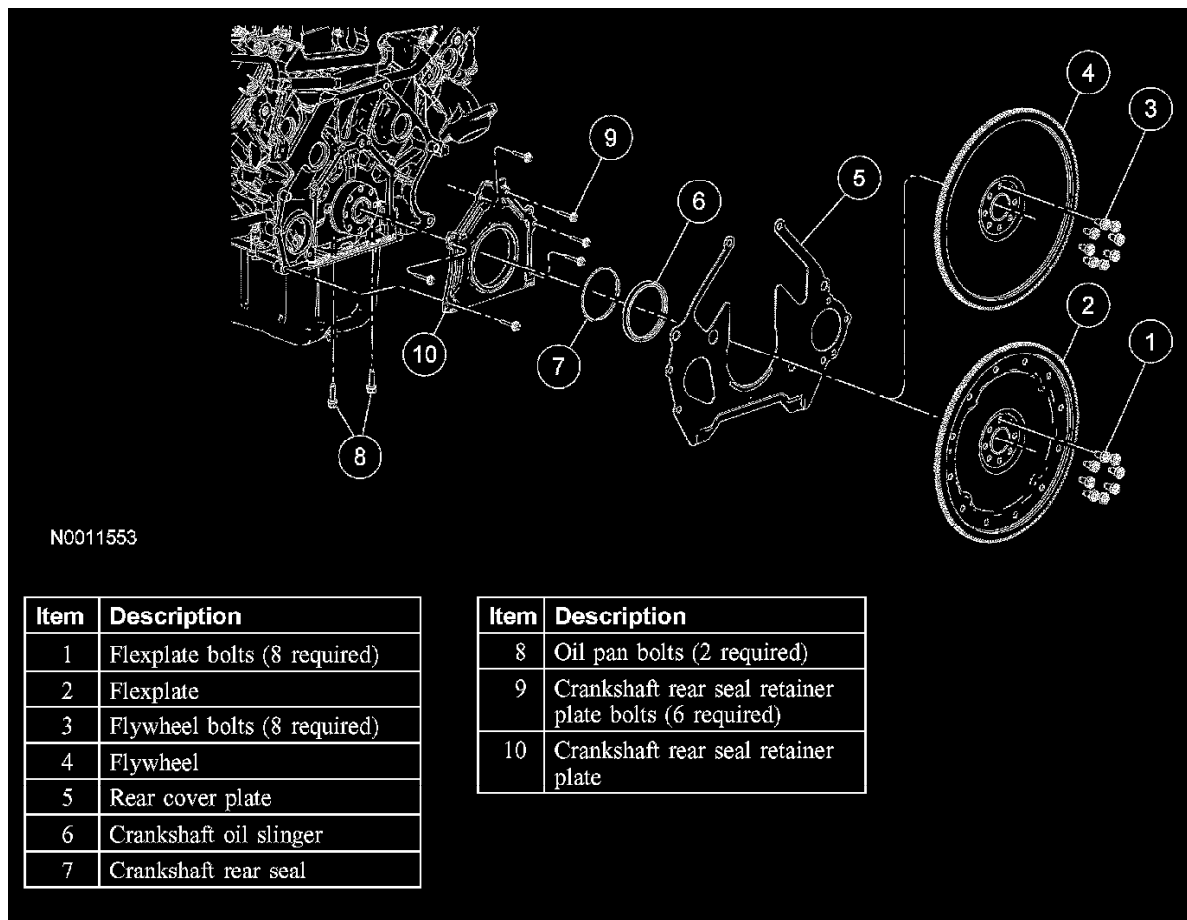


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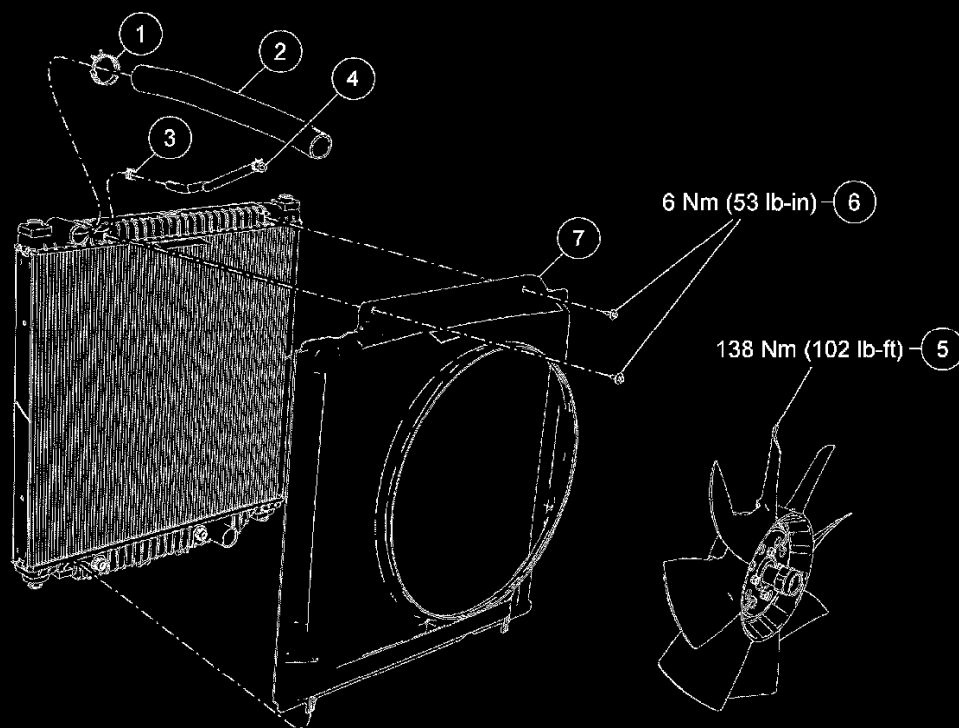
| Item | Description                                                     |
|------|-----------------------------------------------------------------|
| 1    | Torque converter                                                |
| 2    | Pump assembly                                                   |
| 3    | Overdrive clutch assembly                                       |
| 4    | Coast clutch assembly                                           |
| 5    | Turbine shaft speed (TSS)<br>intermediate shaft speed<br>sensor |
| 6    | Overdrive planet assembly                                       |
| 7    | Intermediate clutch assembly                                    |
| 8    | Direct clutch assembly                                          |
| 9    | Forward clutch assembly                                         |

| Item | Description                           |
|------|---------------------------------------|
| 10   | Forward planet assembly               |
| 11   | Reverse clutch assembly               |
| 12   | Reverse planet assembly               |
| 13   | Output shaft speed sensor<br>(OSS)    |
| 14   | Output shaft assembly                 |
| 15   | Low/reverse mechanical diode<br>(OWC) |
| 16   | Center shaft assembly                 |
| 17   | Coast mechanical diode<br>(OWC)       |
| 18   | Input shaft                           |

**Flex Plate, A/T**



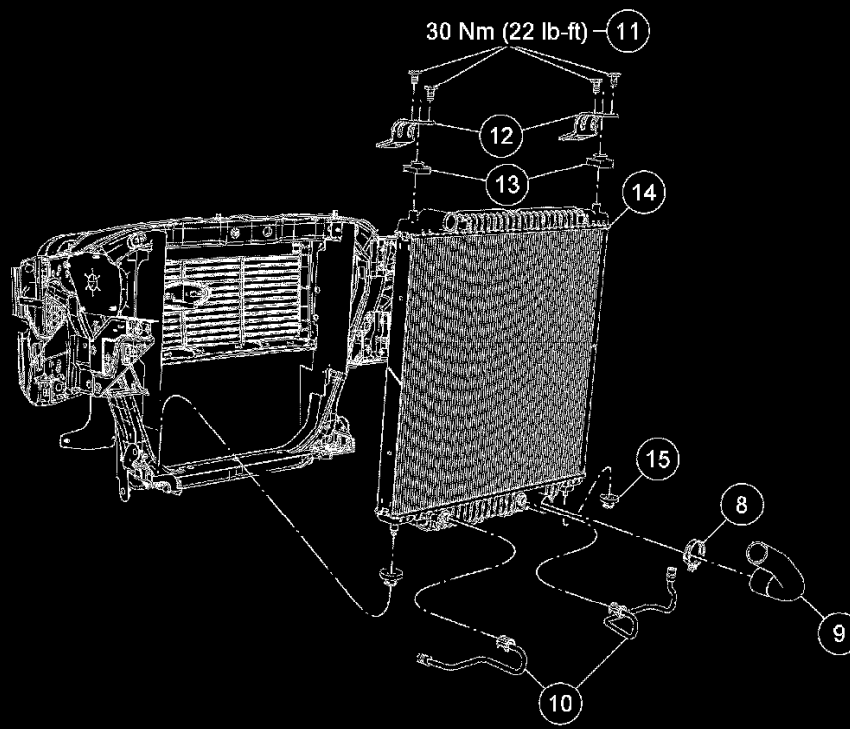
Flexplate or Flywheel and Crankshaft Rear Seal-Exploded View  
**System Diagram**  
Radiator and Cooling Fan - Exploded View, Gasoline Engines



N0013990

| Item | Description               |
|------|---------------------------|
| 1    | Upper radiator hose clamp |
| 2    | Upper radiator hose       |
| 3    | Degas bottle hose clamp   |
| 4    | Degas bottle hose         |

| Item | Description                        |
|------|------------------------------------|
| 5    | Cooling fan assembly               |
| 6    | Radiator shroud bolts (2 required) |
| 7    | Radiator shroud                    |



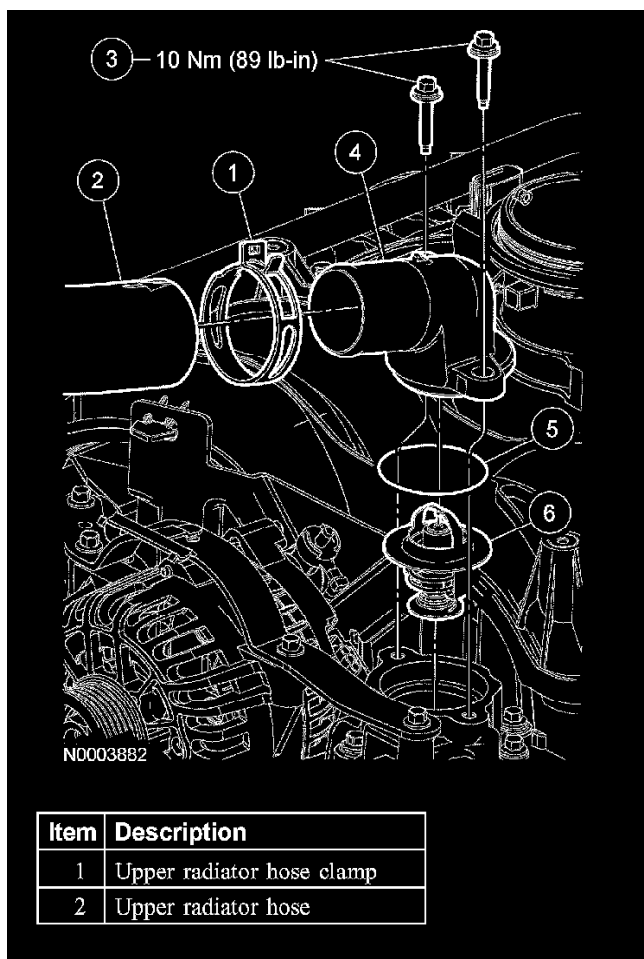
N0010164

| Item | Description                                 |
|------|---------------------------------------------|
| 8    | Lower radiator hose clamp                   |
| 9    | Lower radiator hose                         |
| 10   | Transmission cooler lines                   |
| 11   | Radiator support bracket bolts (4 required) |
| 12   | Radiator support bracket (2 required)       |

| Item | Description                            |
|------|----------------------------------------|
| 13   | Upper radiator insulators (2 required) |
| 14   | Radiator                               |
| 15   | Lower radiator insulators (2 required) |

## Thermostat, Engine Cooling

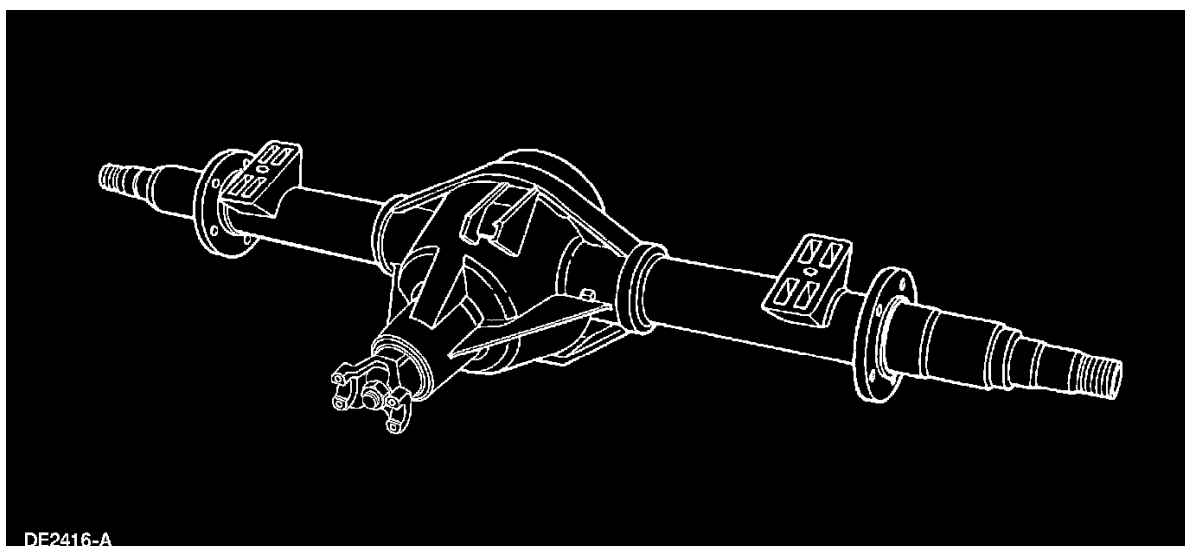




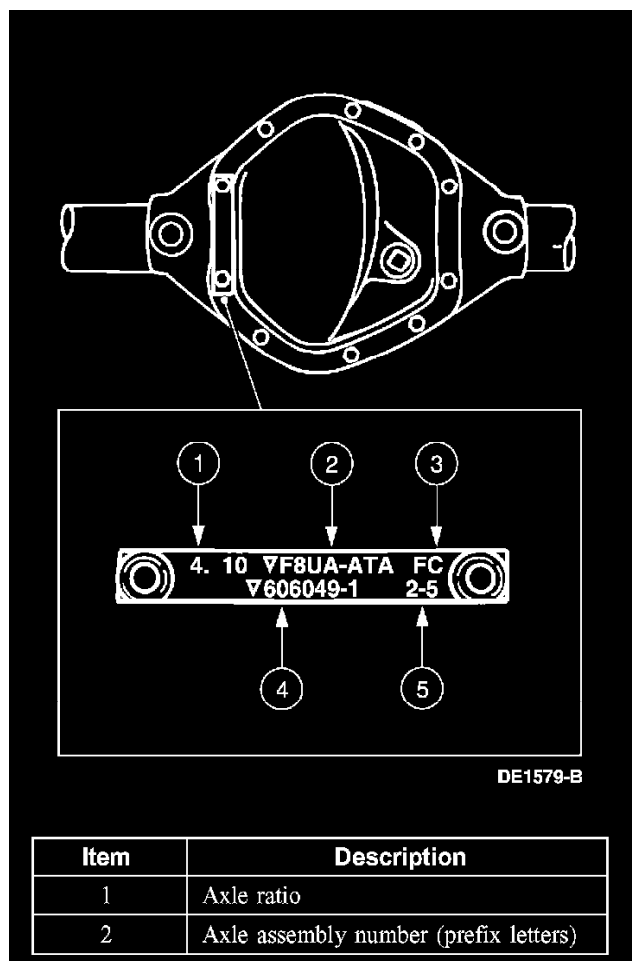
| Item | Description                           |
|------|---------------------------------------|
| 3    | Thermostat housing bolts (2 required) |
| 4    | Thermostat housing                    |
| 5    | Thermostat O-ring seal                |
| 6    | Thermostat                            |

Thermostat - 5.4L, 6.8L

Dana 80



Dana Model 80 Full-Floating Rear Drive Axle

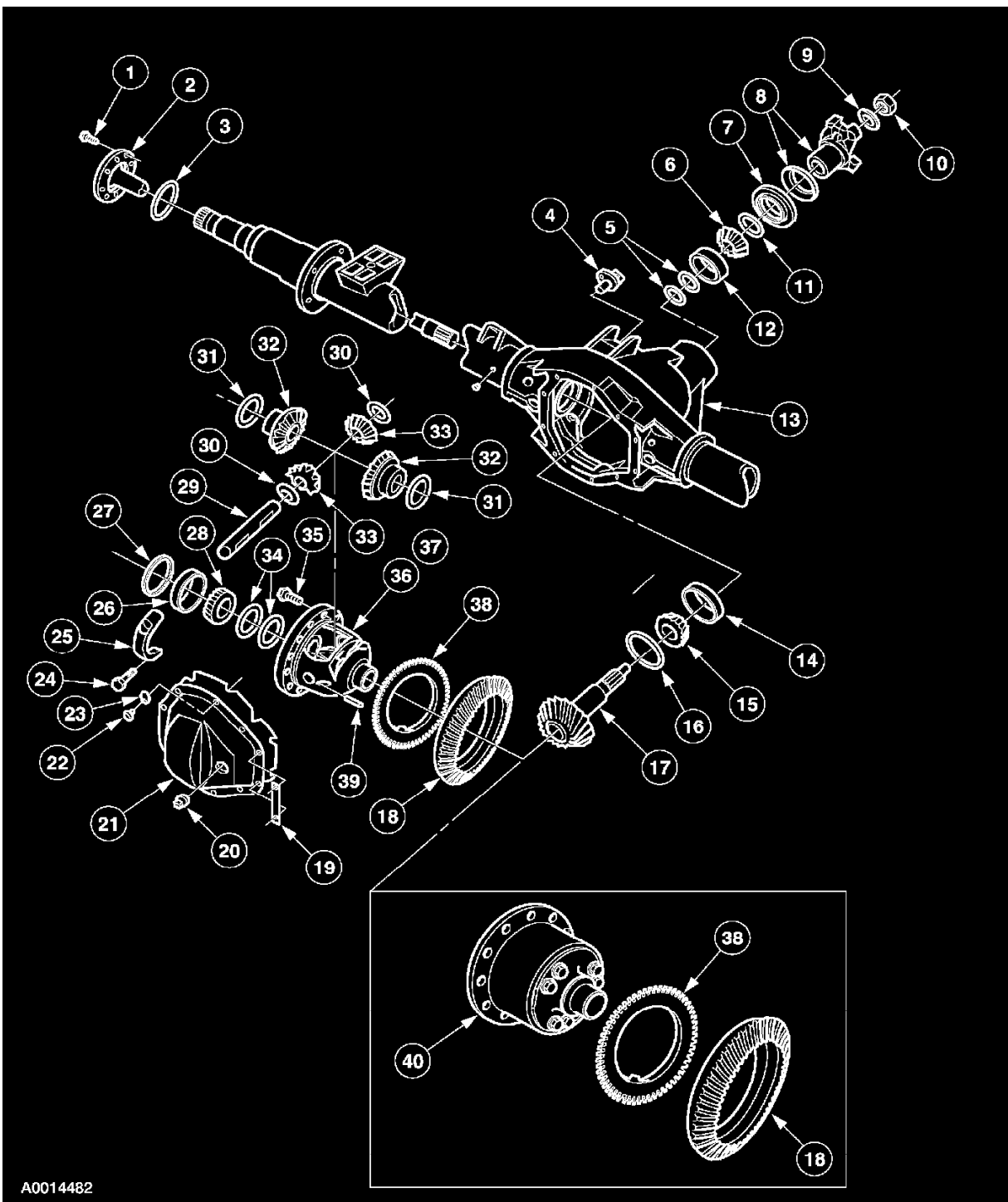


Part 1

| Item | Description                                        |
|------|----------------------------------------------------|
| 3    | Axle assembly number (suffix letters)              |
| 4    | Dana part number                                   |
| 5    | Included for models with limited slip differential |

Part 2

Identification Tag



Part 1

| Item | Description                          |
|------|--------------------------------------|
| 1    | Bolt                                 |
| 2    | Axle shaft                           |
| 3    | Rear wheel gasket                    |
| 4    | Rear brake anti-lock sensor          |
| 5    | Drive pinion bearing preload shim    |
| 6    | Pinion bearing, outer                |
| 7    | Pinion seal                          |
| 8    | Pinion flange                        |
| 9    | Washer                               |
| 10   | Lock nut                             |
| 11   | Oil slinger                          |
| 12   | Pinion bearing cup, outer            |
| 13   | Differential housing                 |
| 14   | Pinion bearing cup, inner            |
| 15   | Pinion bearing, inner                |
| 16   | Drive pinion position shim           |
| 17   | Pinion (matched set)                 |
| 18   | Differential ring gear (matched set) |
| 19   | Identification tag                   |
| 20   | Fill plug                            |
| 21   | Differential housing cover           |
| 22   | Cover bolt                           |
| 23   | Brake line clip                      |
| 24   | Bearing cap bolt                     |
| 25   | Bearing cap                          |
| 26   | Differential bearing cup             |
| 27   | Outboard spacer                      |
| 28   | Differential bearing                 |
| 29   | Differential pinion shaft            |
| 30   | Differential pinion thrust washer    |
| 31   | Differential side gear thrust washer |
| 32   | Differential side gear               |
| 33   | Differential pinion gear             |

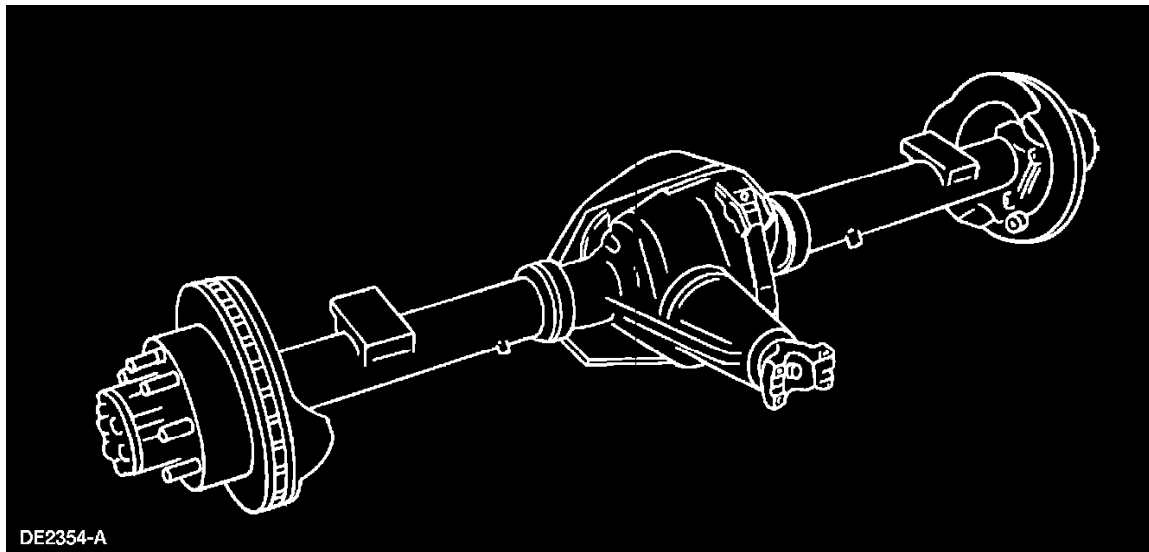
## Part 2

| Item | Description                                                                           |
|------|---------------------------------------------------------------------------------------|
| 34   | Differential bearing shim (preload/backlash)                                          |
| 35   | Rear axle differential ring gear bolt                                                 |
| 36   | Differential case (conventional)                                                      |
| 37   | Differential case Trac-Lok®                                                           |
| 38   | Anti-lock speed sensor ring                                                           |
| 39   | Differential pinion shaft lock pin                                                    |
| 40   | Differential assembly Truetrac® (The Truetrac® differential is a non-repairable unit) |

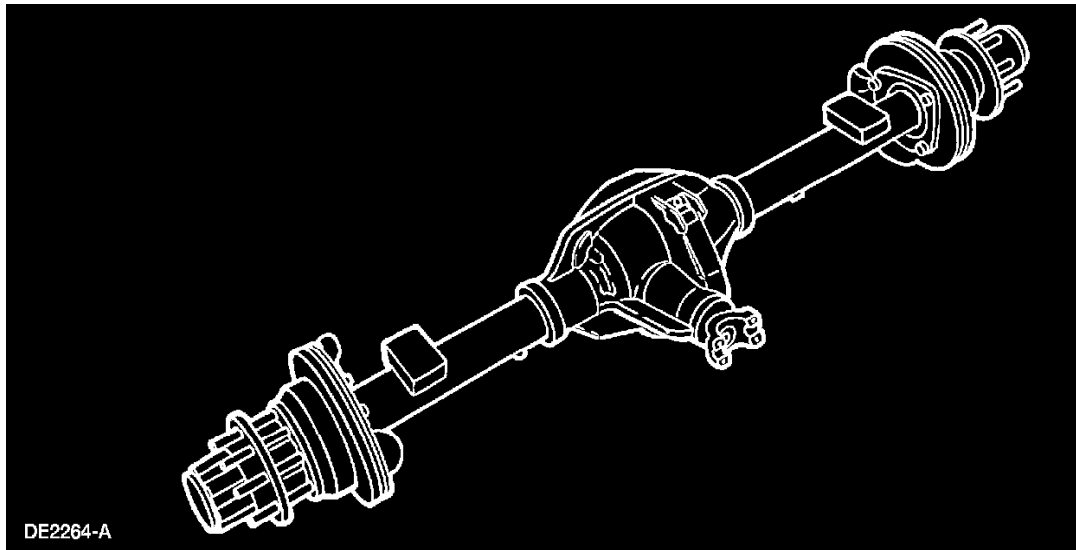
Part 3

Dana Model 80, Full-Floating Rear Axle, Disassembled View

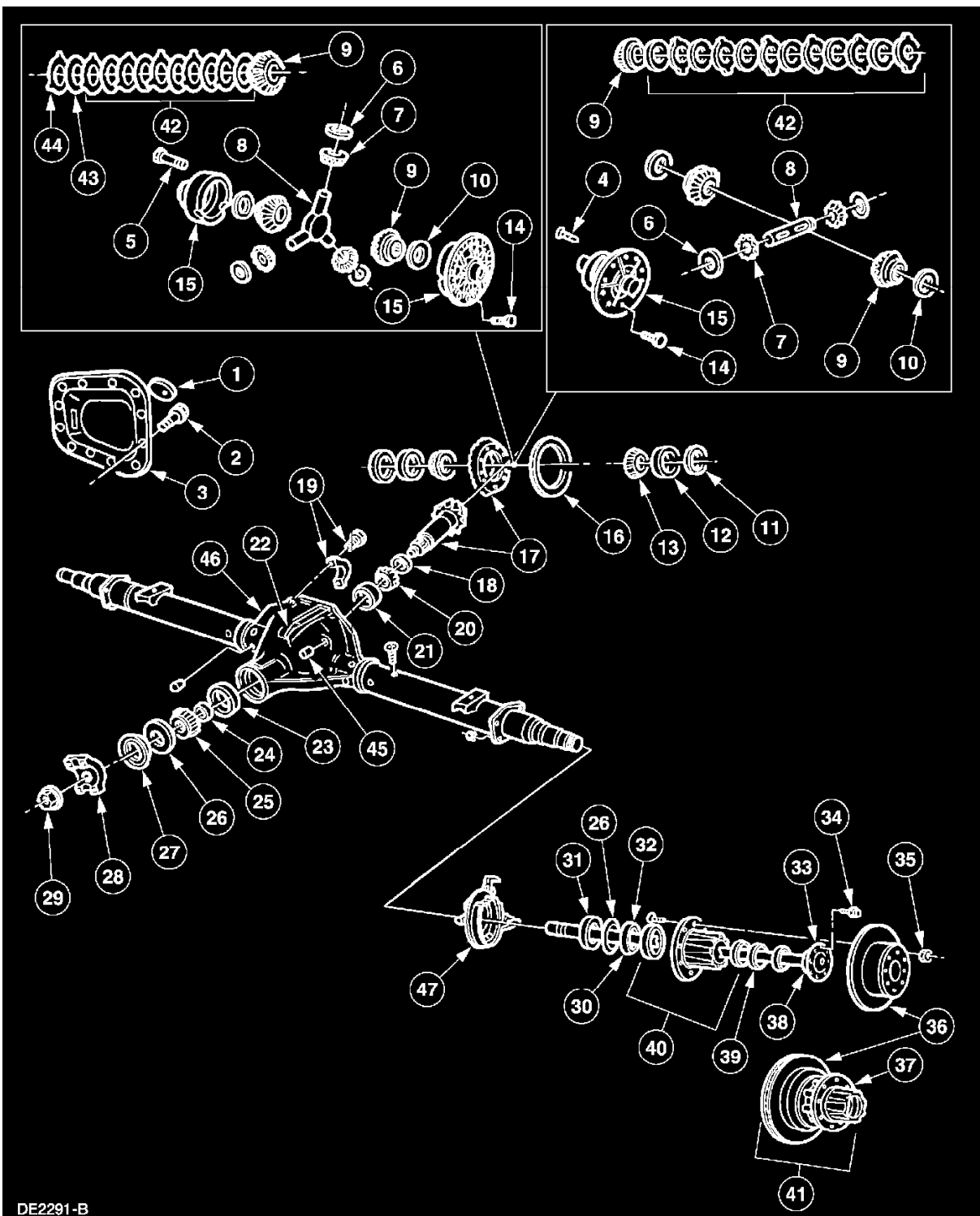
Ford 10.50-Inch Ring Gear



Ford 10.50-Inch Axle, Single Rear Wheel



Ford 10.50-Inch Axle, Dual Rear Wheel



DE2291-B

Part 1

| Item | Description                          |
|------|--------------------------------------|
| 1    | Rear axle identification tag         |
| 2    | Differential housing cover bolt      |
| 3    | Differential housing cover           |
| 4    | Differential pinion shaft lock bolt  |
| 5    | Differential case bolt               |
| 6    | Differential pinion thrust washer    |
| 7    | Differential pinion gear             |
| 8    | Differential pinion shaft            |
| 9    | Differential side gear               |
| 10   | Differential side gear thrust washer |
| 11   | Differential bearing shim            |
| 12   | Differential bearing cup             |
| 13   | Differential bearing                 |
| 14   | Ring gear bolt                       |
| 15   | Differential case                    |
| 16   | Anti-lock speed sensor ring          |
| 17   | Ring gear and pinion                 |
| 18   | Drive pinion bearing adjustment shim |
| 19   | Bearing cap and bolt                 |
| 20   | Pinion bearing (inner)               |
| 21   | Inner axle pinion bearing cup        |
| 22   | RABS sensor                          |
| 23   | Outer pinion bearing cup             |

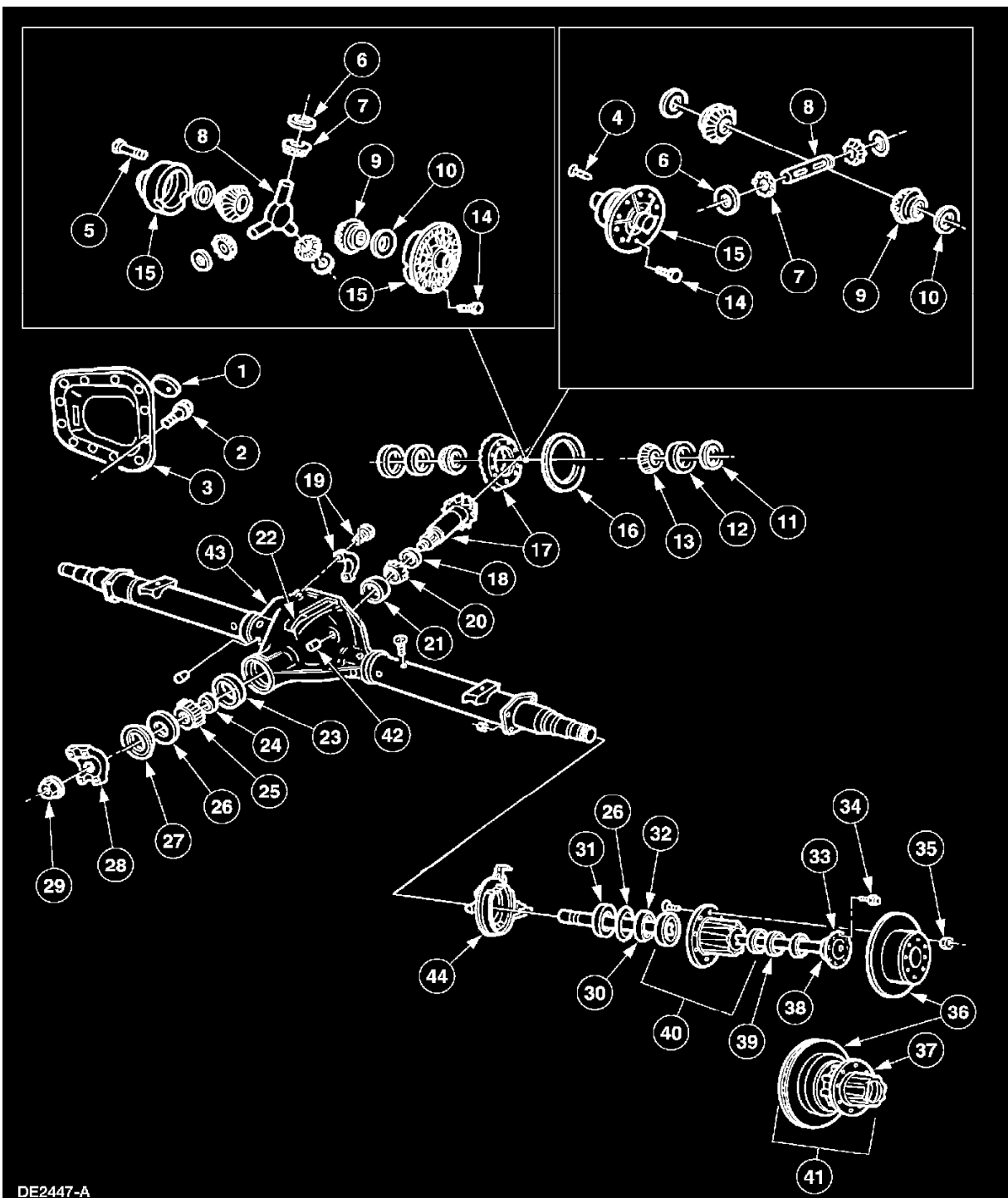
**Part 2**

| Item | Description                              |
|------|------------------------------------------|
| 24   | Collapsible spacer                       |
| 25   | Pinion bearing (outer)                   |
| 26   | Rear axle drive pinion shaft oil slinger |
| 27   | Rear axle drive pinion seal              |
| 28   | Pinion flange                            |
| 29   | Pinion nut                               |
| 30   | Rear wheel bearing inner cone and roller |
| 31   | Wheel bearing oil seal                   |
| 32   | Lug bolt                                 |
| 33   | Axle shaft                               |
| 34   | Axle shaft nut                           |
| 35   | Lug nut                                  |
| 36   | Rear disc brake rotor                    |
| 37   | Rear hub                                 |
| 38   | Gasket                                   |
| 39   | Bearing                                  |
| 40   | Hub and bearing cup                      |
| 41   | Rear brake hub and drum (DRW only)       |
| 42   | Differential clutch pack                 |
| 43   | Rear axle differential clutch shim       |
| 44   | Differential clutch spring               |
| 45   | Filler plug                              |
| 46   | Rear axle housing                        |
| 47   | Brake adapter plate                      |

### Part 3

Rear Axle - 10.50-Inch Ring Gear, Traction-Lok





Part 1

| Item | Description                              |
|------|------------------------------------------|
| 1    | Rear axle identification tag             |
| 2    | Differential housing cover bolt          |
| 3    | Differential housing cover               |
| 4    | Differential pinion shaft lock bolt      |
| 5    | Differential case bolt                   |
| 6    | Differential pinion thrust washer        |
| 7    | Differential pinion gear                 |
| 8    | Differential pinion shaft                |
| 9    | Differential side gear                   |
| 10   | Differential side gear thrust washer     |
| 11   | Differential bearing shim                |
| 12   | Differential bearing cup                 |
| 13   | Differential bearing                     |
| 14   | Ring gear bolt                           |
| 15   | Differential case                        |
| 16   | Anti-lock speed sensor ring              |
| 17   | Ring gear and pinion                     |
| 18   | Drive pinion bearing adjustment shim     |
| 19   | Bearing cap and bolt                     |
| 20   | Pinion bearing (inner)                   |
| 21   | Inner axle pinion bearing cup            |
| 22   | RABS sensor                              |
| 23   | Outer pinion bearing cup                 |
| 24   | Collapsible spacer                       |
| 25   | Pinion bearing (outer)                   |
| 26   | Rear axle drive pinion shaft oil slinger |
| 27   | Rear axle drive pinion seal              |
| 28   | Pinion flange                            |
| 29   | Pinion nut                               |
| 30   | Rear wheel bearing inner cone and roller |
| 31   | Wheel bearing oil seal                   |
| 32   | Lug bolt                                 |
| 33   | Axle shaft                               |
| 34   | Axle shaft nut                           |
| 35   | Lug nut                                  |
| 36   | Rear disc brake rotor                    |
| 37   | Rear hub                                 |

**Part 2**

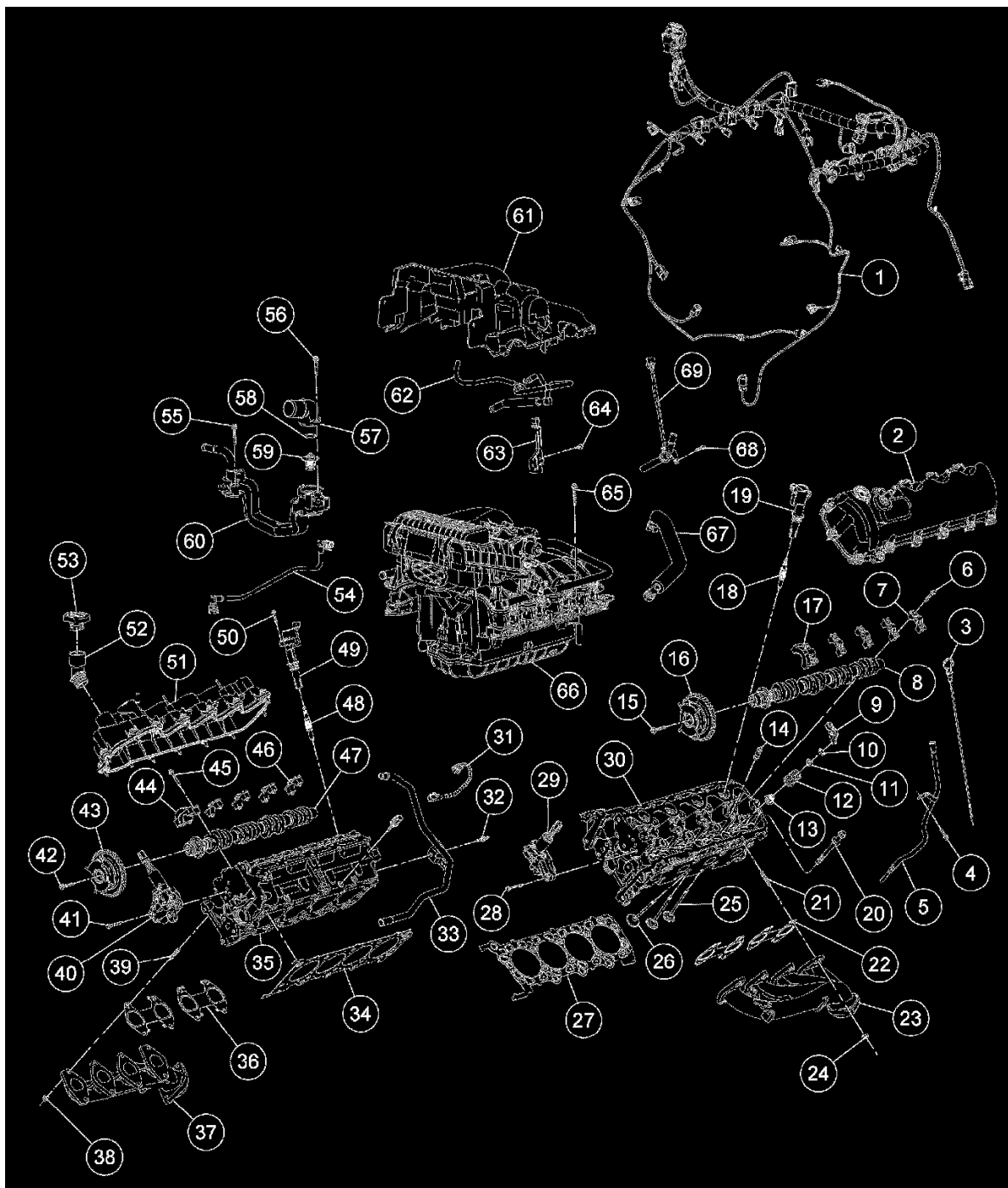
| Item | Description                           |
|------|---------------------------------------|
| 38   | Gasket                                |
| 39   | Bearing                               |
| 40   | Hub and bearing cup                   |
| 41   | Rear brake hub and drum<br>(DRW only) |
| 42   | Filler plug                           |
| 43   | Rear axle housing                     |
| 44   | Brake adapter plate                   |

### Part 3

Rear Axle - 10.50-Inch Ring Gear, Conventional

## System Diagram

Exploded Views

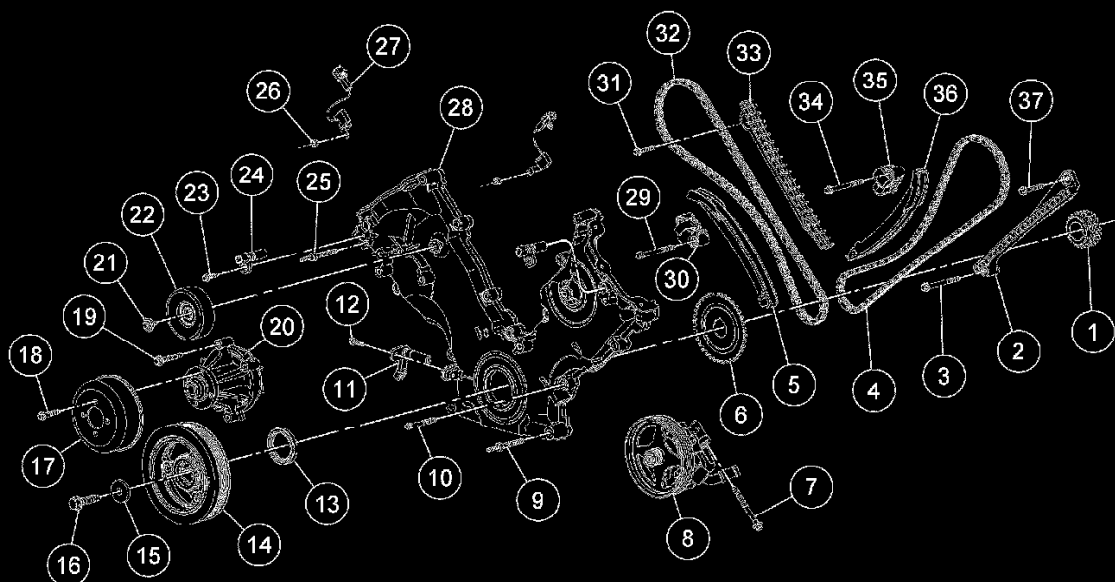


| Item | Description                                                                    |
|------|--------------------------------------------------------------------------------|
| 1    | Engine wiring harness                                                          |
| 2    | Valve cover — LH                                                               |
| 3    | Oil level indicator                                                            |
| 4    | Oil level indicator tube bolt                                                  |
| 5    | Oil level indicator tube                                                       |
| 6    | Camshaft bearing cap bolt (10 required)                                        |
| 7    | Camshaft bearing cap (4 required)                                              |
| 8    | Camshaft — LH                                                                  |
| 9    | Roller follower (24 required)                                                  |
| 10   | Valve spring retainer key (48 required)                                        |
| 11   | Valve spring retainer (24 required)                                            |
| 12   | Valve spring (24 required)                                                     |
| 13   | Valve stem seal (24 required)                                                  |
| 14   | Hydraulic lash adjuster (24 required)                                          |
| 15   | Camshaft phaser sprocket bolt — LH                                             |
| 16   | Camshaft phaser sprocket — LH                                                  |
| 17   | Camshaft bearing cap                                                           |
| 18   | Spark plug (4 required)                                                        |
| 19   | Ignition coil (4 required)                                                     |
| 20   | Cylinder head bolt (20 required)                                               |
| 21   | Exhaust manifold stud (8 required)                                             |
| 22   | Exhaust manifold gaskets (2 required)                                          |
| 23   | Exhaust manifold — LH                                                          |
| 24   | Exhaust manifold nut (8 required)                                              |
| 25   | Intake valve (16 required)                                                     |
| 26   | Exhaust valve (8 required)                                                     |
| 27   | Cylinder head gasket — LH                                                      |
| 28   | Variable camshaft timing (VCT) oil control solenoid assembly bolt (2 required) |
| 29   | VCT oil control solenoid assembly                                              |
| 30   | Cylinder head — LH                                                             |
| 31   | Cylinder head temperature (CHT) sensor jumper harness                          |
| 32   | Heater outlet tube stud bolt                                                   |

| Item | Description                                         |
|------|-----------------------------------------------------|
| 33   | Heater outlet tube                                  |
| 34   | Cylinder head gasket — RH                           |
| 35   | Cylinder head — RH                                  |
| 36   | Exhaust manifold gaskets (2 required)               |
| 37   | Exhaust manifold — RH                               |
| 38   | Exhaust manifold nut (8 required)                   |
| 39   | Exhaust manifold stud (8 required)                  |
| 40   | VCT oil control solenoid assembly                   |
| 41   | VCT oil control solenoid assembly bolt (2 required) |
| 42   | Camshaft phaser sprocket bolt — RH                  |
| 43   | Camshaft phaser sprocket — RH                       |
| 44   | Camshaft bearing cap                                |
| 45   | Camshaft bearing cap bolt (10 required)             |
| 46   | Camshaft bearing cap (4 required)                   |
| 47   | Camshaft — RH                                       |
| 48   | Spark plug (4 required)                             |
| 49   | Ignition coil (4 required)                          |
| 50   | Ignition coil bolt (8 required)                     |
| 51   | Valve cover — RH                                    |
| 52   | Oil fill adapter                                    |
| 53   | Oil fill adapter cap                                |
| 54   | Crankcase ventilation tube                          |
| 55   | Coolant crossover tube bolt (3 required)            |
| 56   | Thermostat housing bolt (2 required)                |
| 57   | Thermostat housing                                  |
| 58   | Thermostat O-ring seal                              |
| 59   | Thermostat                                          |
| 60   | Coolant crossover tube                              |
| 61   | Intake manifold dust cover                          |
| 62   | Intake manifold vacuum harness                      |
| 63   | Intake manifold vacuum harness support bracket      |
| 64   | Intake manifold vacuum harness support bracket bolt |

| Item | Description                               |
|------|-------------------------------------------|
| 65   | Intake manifold bolt (10 required)        |
| 66   | Intake manifold assembly                  |
| 67   | Positive crankcase ventilation (PCV) tube |

| Item | Description                                   |
|------|-----------------------------------------------|
| 68   | PCV heater element assembly bolt (2 required) |
| 69   | PCV heater element assembly                   |



N0006525

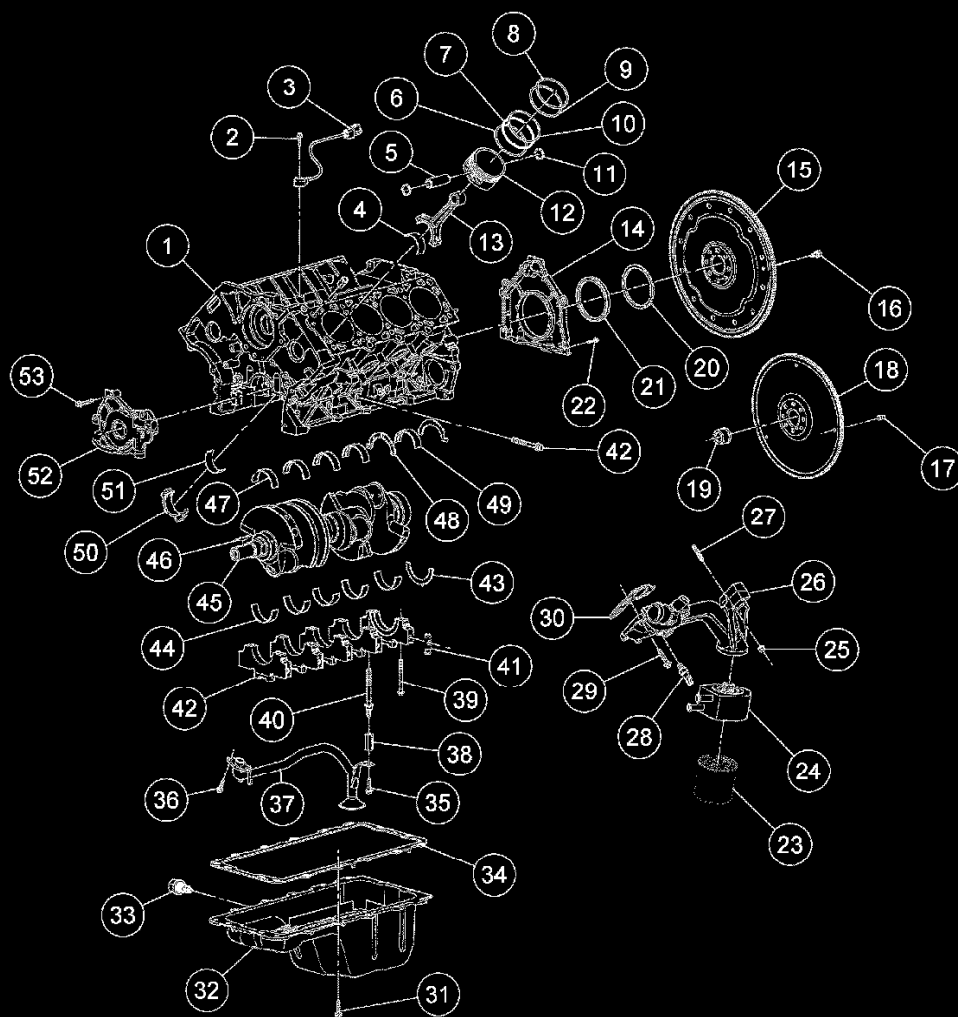
| Item | Description                               |
|------|-------------------------------------------|
| 1    | Crankshaft sprocket                       |
| 2    | Timing chain guide — LH                   |
| 3    | Timing chain guide lower bolt — LH        |
| 4    | Timing Chain — LH                         |
| 5    | Tensioner arm — RH                        |
| 6    | Ignition pulse wheel                      |
| 7    | Power steering pump bolt (2 required)     |
| 8    | Power steering pump assembly              |
| 9    | Engine front cover stud bolt (2 required) |

| Item | Description                           |
|------|---------------------------------------|
| 10   | Engine front cover bolt (10 required) |
| 11   | Crankshaft position (CKP) sensor      |
| 12   | CKP sensor bolt                       |
| 13   | Crankshaft front seal                 |
| 14   | Crankshaft pulley                     |
| 15   | Crankshaft pulley washer              |
| 16   | Crankshaft pulley bolt                |
| 17   | Coolant pump pulley                   |
| 18   | Coolant pump pulley bolt (4 required) |
| 19   | Coolant pump bolt (4 required)        |

| Item | Description                                             |
|------|---------------------------------------------------------|
| 20   | Coolant pump                                            |
| 21   | Accessory drive belt idler pulley bolt                  |
| 22   | Accessory drive belt idler pulley                       |
| 23   | Camshaft position (CMP) sensor bolt (2 required)        |
| 24   | CMP sensor (2 required)                                 |
| 25   | Engine front cover stud bolt (3 required)               |
| 26   | Radio ignition interference capacitor nuts (2 required) |
| 27   | Radio ignition interference capacitors (2 required)     |
| 28   | Engine front cover                                      |

| Item | Description                                   |
|------|-----------------------------------------------|
| 29   | Timing chain tensioner bolt — RH (2 required) |
| 30   | Timing chain tensioner — RH                   |
| 31   | Timing chain guide bolt — RH (2 required)     |
| 32   | Timing chain — RH                             |
| 33   | Timing chain guide — RH                       |
| 34   | Timing chain tensioner bolt — LH (2 required) |
| 35   | Timing chain tensioner — LH                   |
| 36   | Tensioner arm — LH                            |
| 37   | Timing chain guide upper bolt — LH            |

## Engine-Front end



N0011594

| Item | Description                               |
|------|-------------------------------------------|
| 1    | Cylinder block                            |
| 2    | Knock sensor (KS) bolt (2 required)       |
| 3    | KS (2 required)                           |
| 4    | Upper connecting rod bearing (8 required) |
| 5    | Piston pin (8 required)                   |
| 6    | Outer oil control ring (8 required)       |

| Item | Description                         |
|------|-------------------------------------|
| 7    | Inner oil control ring (8 required) |
| 8    | Upper compression ring (8 required) |
| 9    | Lower compression ring (8 required) |
| 10   | Outer oil control ring (8 required) |
| 11   | Piston pin retainer (16 required)   |

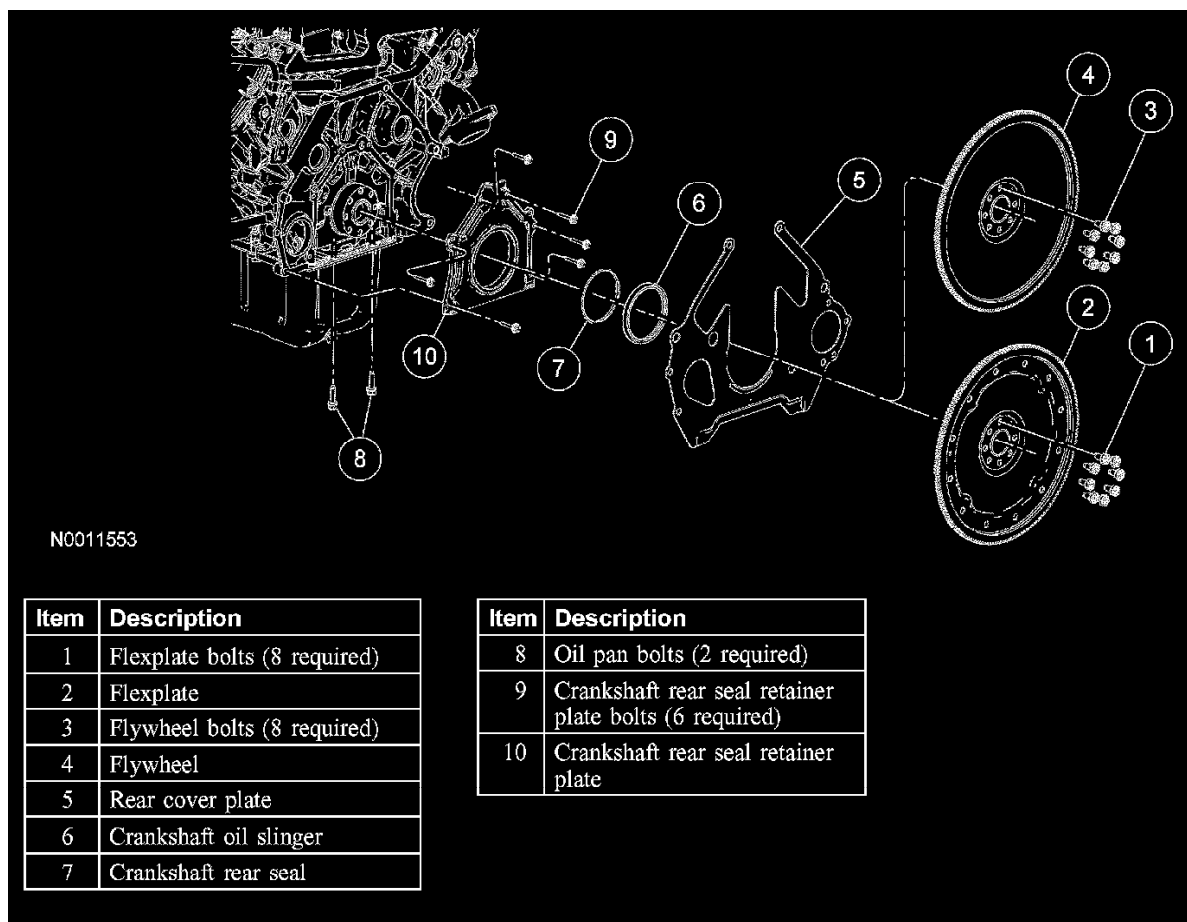


| Item | Description                                           |
|------|-------------------------------------------------------|
| 12   | Piston (8 required)                                   |
| 13   | Connecting rod assembly (8 required)                  |
| 14   | Crankshaft rear seal retainer plate                   |
| 15   | Flexplate                                             |
| 16   | Flexplate bolt (8 required)                           |
| 17   | Flywheel bolt (8 required)                            |
| 18   | Flywheel                                              |
| 19   | Pilot bearing                                         |
| 20   | Crankshaft oil slinger                                |
| 21   | Crankshaft rear seal                                  |
| 22   | Crankshaft rear seal retainer plate bolt (6 required) |
| 23   | Oil filter                                            |
| 24   | Oil cooler                                            |
| 25   | Oil filter adapter nut                                |
| 26   | Oil filter adapter                                    |
| 27   | Oil filter adapter stud                               |
| 28   | Engine oil pressure (EOP) sensor                      |
| 29   | Oil filter adapter bolt (4 required)                  |
| 30   | Oil filter adapter gasket                             |
| 31   | Oil pan bolt (16 required)                            |
| 32   | Oil pan                                               |
| 33   | Engine oil temperature (EOT) sensor                   |
| 34   | Oil pan gasket                                        |
| 35   | Oil pump screen and pickup tube bolt                  |
| 36   | Oil pump screen and pickup tube bolt (2 required)     |
| 37   | Oil pump screen and pickup tube                       |
| 38   | Oil pump screen and pickup tube spacer                |
| 39   | Crankshaft main bearing cap bolt (9 required)         |
| 40   | Crankshaft main bearing cap stud                      |
| 41   | Crankshaft main bearing dowel (10 required)           |
| 42   | Crankshaft main bearing cap (5 required)              |
| 43   | Crankshaft thrust washer — lower                      |

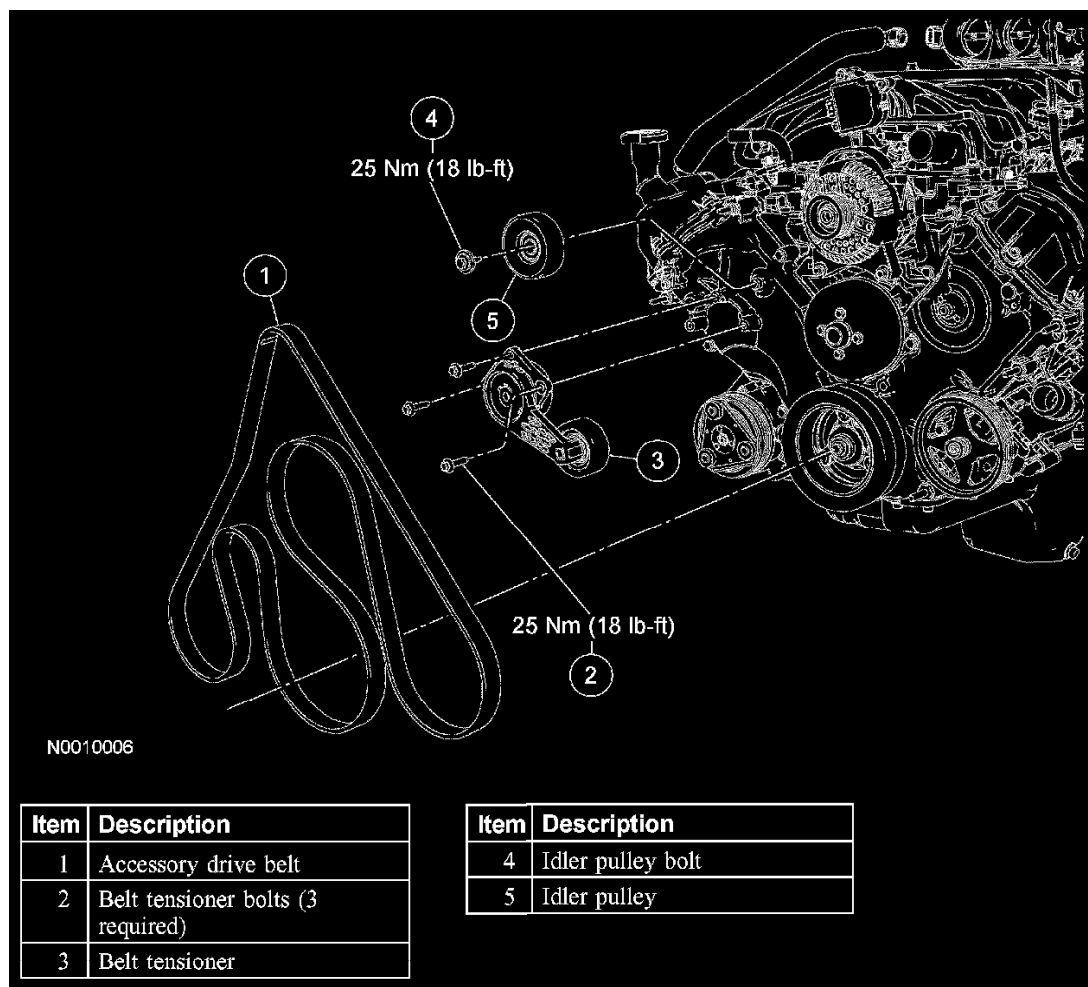
| Item | Description                                   |
|------|-----------------------------------------------|
| 44   | Crankshaft bearing — lower (5 required)       |
| 45   | Crankshaft                                    |
| 46   | Crankshaft key                                |
| 47   | Crankshaft bearing — upper (4 required)       |
| 48   | Crankshaft thrust washer — upper (2 required) |
| 49   | Crankshaft bearing — upper                    |
| 50   | Connecting rod cap (8 required)               |
| 51   | Connecting rod bearing (8 required)           |
| 52   | Oil pump                                      |
| 53   | Oil pump bolt (3 required)                    |

## Engine-Lower end

### Crankshaft Main Bearing Seal



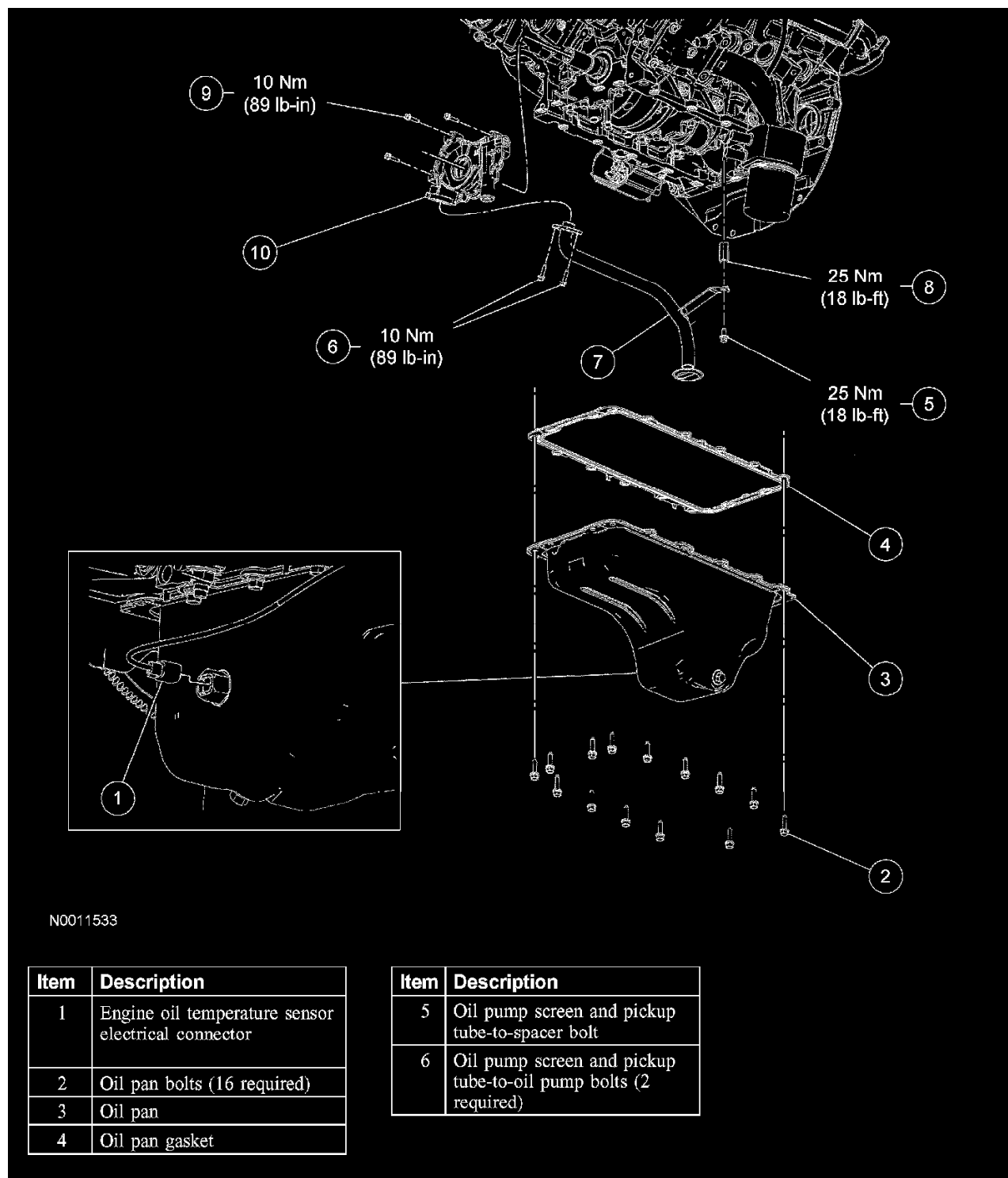
## Flexplate or Flywheel and Crankshaft Rear Seal-Exploded View Drive Belt



Front End Accessory Drive (FEAD) Exploded View-5.4L, 6.8L

## Engine Lubrication

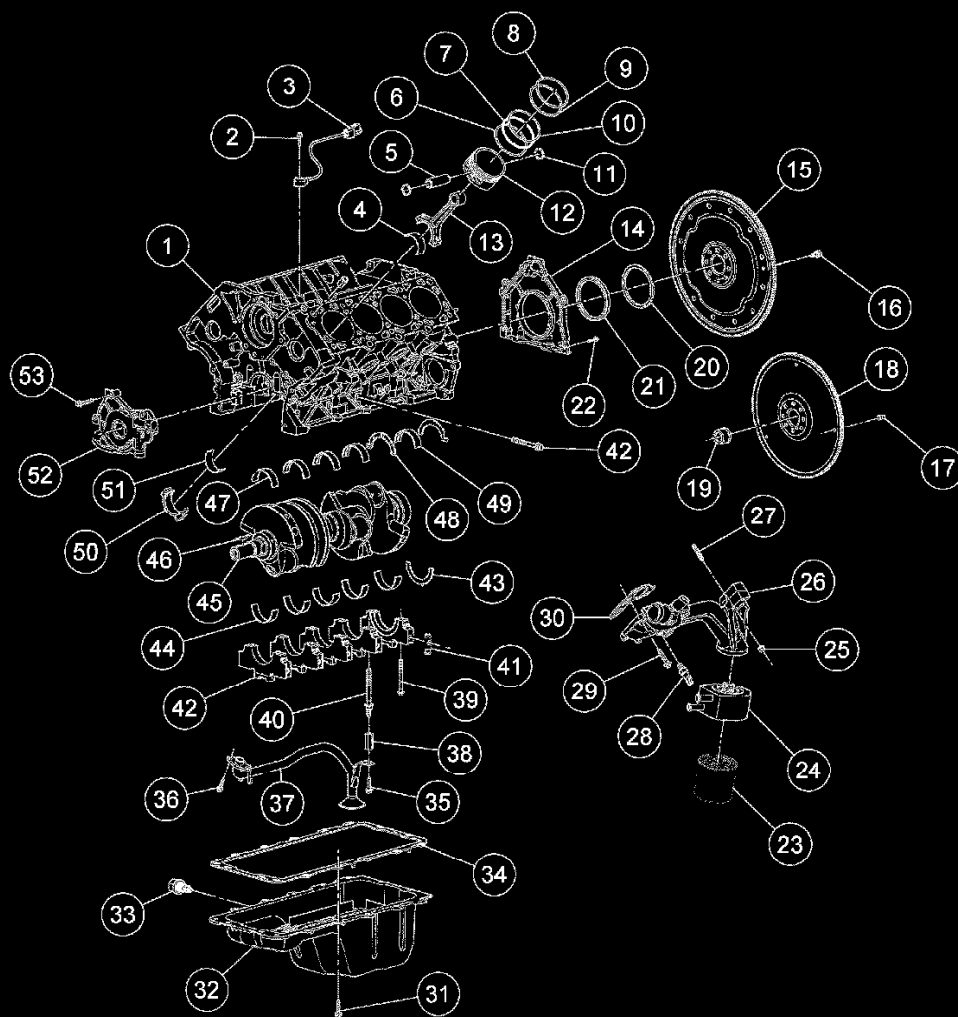
Engine Lubrication Components- Exploded View



| Item | Description                            |
|------|----------------------------------------|
| 7    | Oil pump screen and pickup tube        |
| 8    | Oil pump screen and pickup tube spacer |
| 9    | Oil pump bolts (3 required)            |

| Item | Description |
|------|-------------|
| 10   | Oil pump    |

## Front Crankshaft Seal



N0011594

| Item | Description                               |
|------|-------------------------------------------|
| 1    | Cylinder block                            |
| 2    | Knock sensor (KS) bolt (2 required)       |
| 3    | KS (2 required)                           |
| 4    | Upper connecting rod bearing (8 required) |
| 5    | Piston pin (8 required)                   |
| 6    | Outer oil control ring (8 required)       |

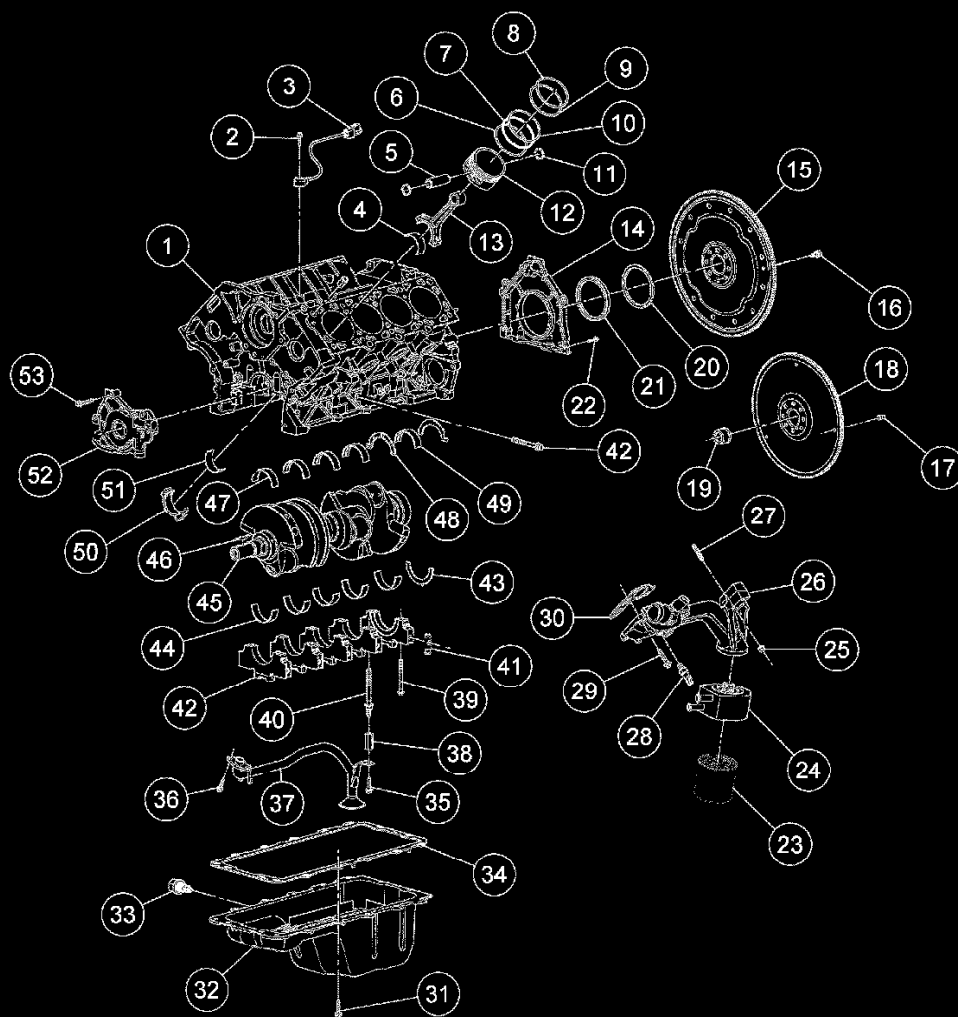
| Item | Description                         |
|------|-------------------------------------|
| 7    | Inner oil control ring (8 required) |
| 8    | Upper compression ring (8 required) |
| 9    | Lower compression ring (8 required) |
| 10   | Outer oil control ring (8 required) |
| 11   | Piston pin retainer (16 required)   |

| Item | Description                                           |
|------|-------------------------------------------------------|
| 12   | Piston (8 required)                                   |
| 13   | Connecting rod assembly (8 required)                  |
| 14   | Crankshaft rear seal retainer plate                   |
| 15   | Flexplate                                             |
| 16   | Flexplate bolt (8 required)                           |
| 17   | Flywheel bolt (8 required)                            |
| 18   | Flywheel                                              |
| 19   | Pilot bearing                                         |
| 20   | Crankshaft oil slinger                                |
| 21   | Crankshaft rear seal                                  |
| 22   | Crankshaft rear seal retainer plate bolt (6 required) |
| 23   | Oil filter                                            |
| 24   | Oil cooler                                            |
| 25   | Oil filter adapter nut                                |
| 26   | Oil filter adapter                                    |
| 27   | Oil filter adapter stud                               |
| 28   | Engine oil pressure (EOP) sensor                      |
| 29   | Oil filter adapter bolt (4 required)                  |
| 30   | Oil filter adapter gasket                             |
| 31   | Oil pan bolt (16 required)                            |
| 32   | Oil pan                                               |
| 33   | Engine oil temperature (EOT) sensor                   |
| 34   | Oil pan gasket                                        |
| 35   | Oil pump screen and pickup tube bolt                  |
| 36   | Oil pump screen and pickup tube bolt (2 required)     |
| 37   | Oil pump screen and pickup tube                       |
| 38   | Oil pump screen and pickup tube spacer                |
| 39   | Crankshaft main bearing cap bolt (9 required)         |
| 40   | Crankshaft main bearing cap stud                      |
| 41   | Crankshaft main bearing dowel (10 required)           |
| 42   | Crankshaft main bearing cap (5 required)              |
| 43   | Crankshaft thrust washer — lower                      |

| Item | Description                                   |
|------|-----------------------------------------------|
| 44   | Crankshaft bearing — lower (5 required)       |
| 45   | Crankshaft                                    |
| 46   | Crankshaft key                                |
| 47   | Crankshaft bearing — upper (4 required)       |
| 48   | Crankshaft thrust washer — upper (2 required) |
| 49   | Crankshaft bearing — upper                    |
| 50   | Connecting rod cap (8 required)               |
| 51   | Connecting rod bearing (8 required)           |
| 52   | Oil pump                                      |
| 53   | Oil pump bolt (3 required)                    |

Engine-Lower end

## Harmonic Balancer - Crankshaft Pulley



N0011594

| Item | Description                               |
|------|-------------------------------------------|
| 1    | Cylinder block                            |
| 2    | Knock sensor (KS) bolt (2 required)       |
| 3    | KS (2 required)                           |
| 4    | Upper connecting rod bearing (8 required) |
| 5    | Piston pin (8 required)                   |
| 6    | Outer oil control ring (8 required)       |

| Item | Description                         |
|------|-------------------------------------|
| 7    | Inner oil control ring (8 required) |
| 8    | Upper compression ring (8 required) |
| 9    | Lower compression ring (8 required) |
| 10   | Outer oil control ring (8 required) |
| 11   | Piston pin retainer (16 required)   |

| Item | Description                                           |
|------|-------------------------------------------------------|
| 12   | Piston (8 required)                                   |
| 13   | Connecting rod assembly (8 required)                  |
| 14   | Crankshaft rear seal retainer plate                   |
| 15   | Flexplate                                             |
| 16   | Flexplate bolt (8 required)                           |
| 17   | Flywheel bolt (8 required)                            |
| 18   | Flywheel                                              |
| 19   | Pilot bearing                                         |
| 20   | Crankshaft oil slinger                                |
| 21   | Crankshaft rear seal                                  |
| 22   | Crankshaft rear seal retainer plate bolt (6 required) |
| 23   | Oil filter                                            |
| 24   | Oil cooler                                            |
| 25   | Oil filter adapter nut                                |
| 26   | Oil filter adapter                                    |
| 27   | Oil filter adapter stud                               |
| 28   | Engine oil pressure (EOP) sensor                      |
| 29   | Oil filter adapter bolt (4 required)                  |
| 30   | Oil filter adapter gasket                             |
| 31   | Oil pan bolt (16 required)                            |
| 32   | Oil pan                                               |
| 33   | Engine oil temperature (EOT) sensor                   |
| 34   | Oil pan gasket                                        |
| 35   | Oil pump screen and pickup tube bolt                  |
| 36   | Oil pump screen and pickup tube bolt (2 required)     |
| 37   | Oil pump screen and pickup tube                       |
| 38   | Oil pump screen and pickup tube spacer                |
| 39   | Crankshaft main bearing cap bolt (9 required)         |
| 40   | Crankshaft main bearing cap stud                      |
| 41   | Crankshaft main bearing dowel (10 required)           |
| 42   | Crankshaft main bearing cap (5 required)              |
| 43   | Crankshaft thrust washer — lower                      |

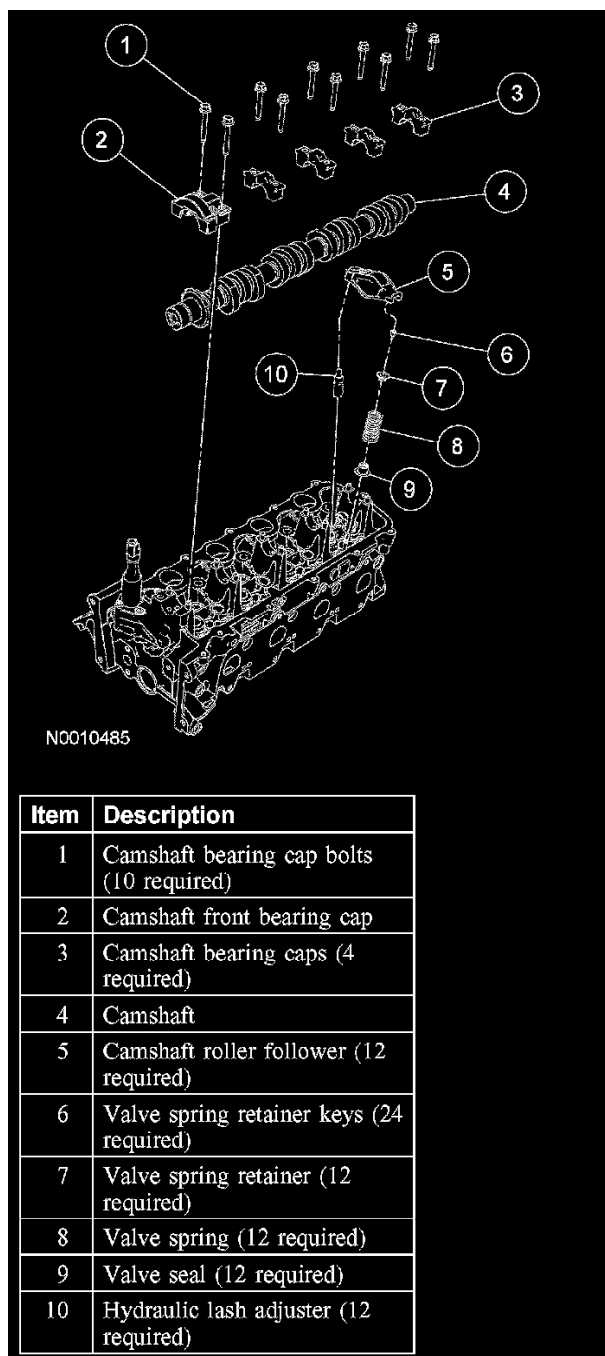
| Item | Description                                   |
|------|-----------------------------------------------|
| 44   | Crankshaft bearing — lower (5 required)       |
| 45   | Crankshaft                                    |
| 46   | Crankshaft key                                |
| 47   | Crankshaft bearing — upper (4 required)       |
| 48   | Crankshaft thrust washer — upper (2 required) |
| 49   | Crankshaft bearing — upper                    |
| 50   | Connecting rod cap (8 required)               |
| 51   | Connecting rod bearing (8 required)           |
| 52   | Oil pump                                      |
| 53   | Oil pump bolt (3 required)                    |

Engine-Lower end

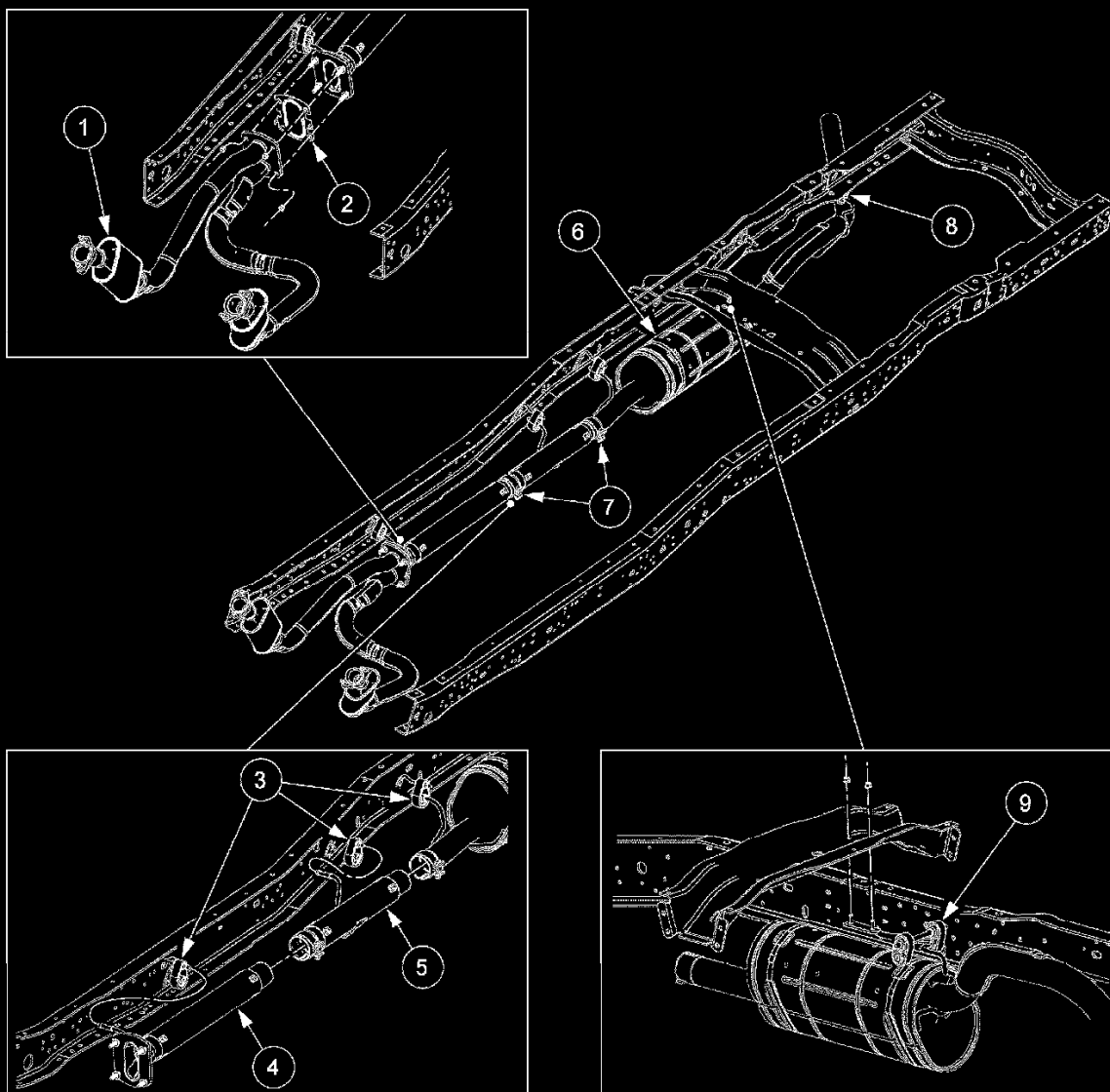
## Timing Components

Valve Train Components-Exploded View





LH shown, RH similar  
**Exhaust System**

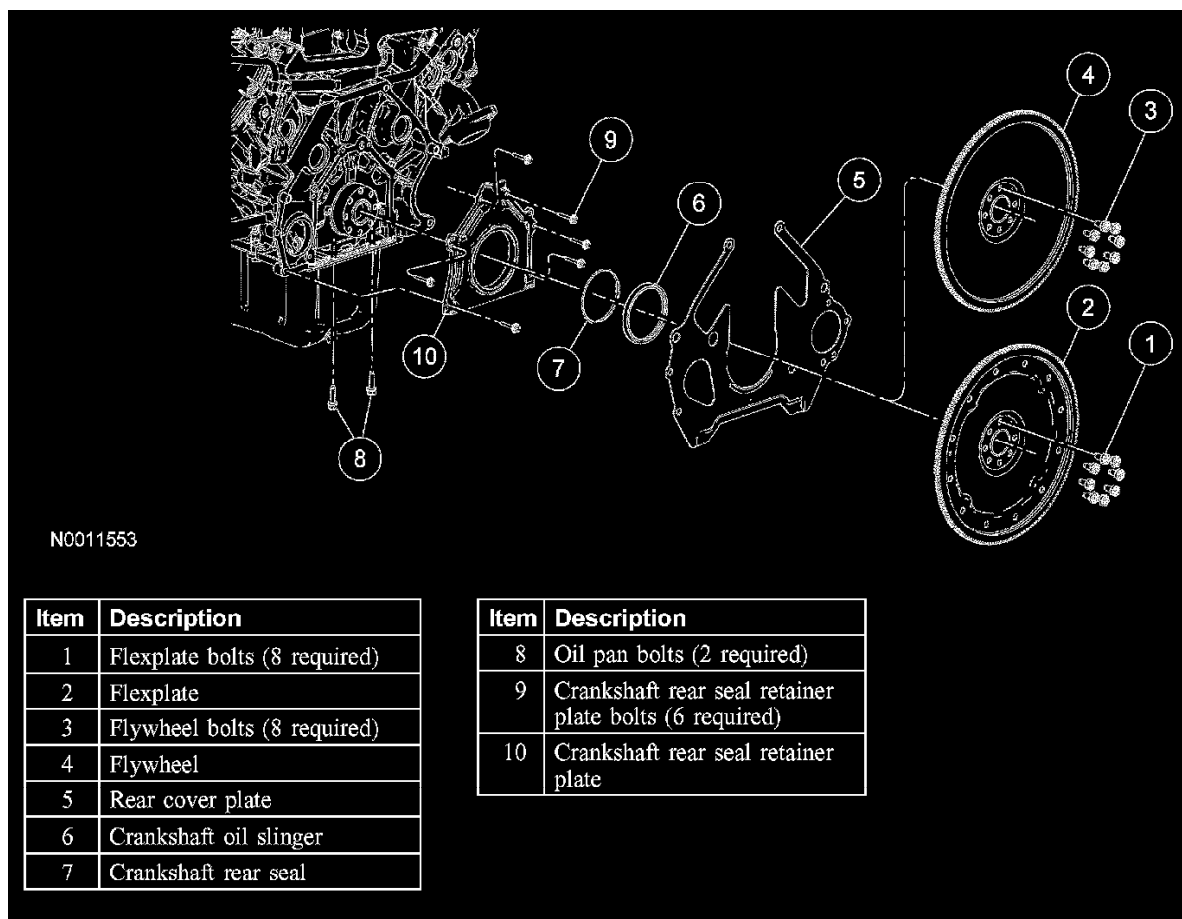


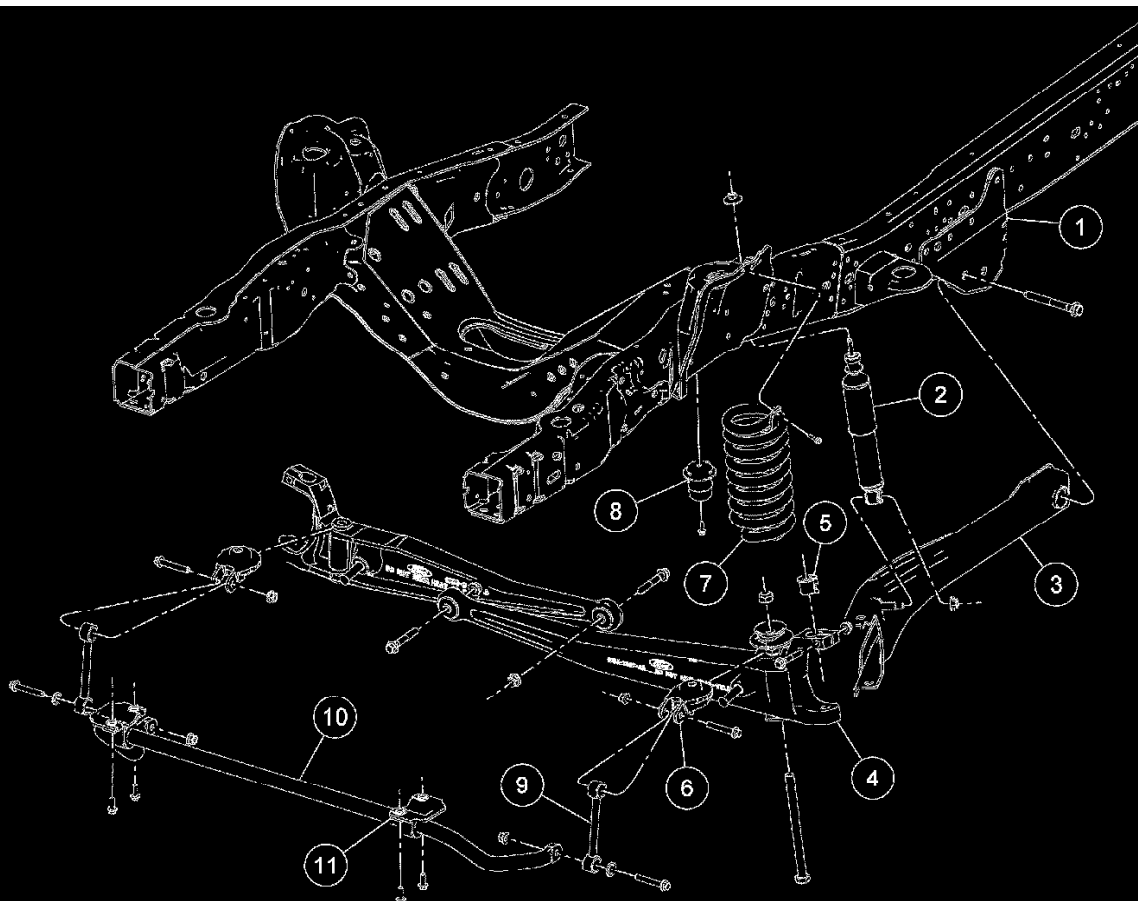
N0010455

| Item | Description                      |
|------|----------------------------------|
| 1    | Catalytic converter Y-pipe       |
| 2    | Gasket                           |
| 3    | Bracket and insulator assembly   |
| 4    | Resonator and muffler inlet pipe |
| 5    | Muffler inlet pipe               |

| Item | Description                      |
|------|----------------------------------|
| 6    | Muffler and outlet pipe assembly |
| 7    | Exhaust clamp                    |
| 8    | Bracket and insulator assembly   |
| 9    | Muffler bracket and insulator    |

Inlet Pipes and Catalytic Converter-5.4L and 6.8L Engines  
Flywheel, M/T

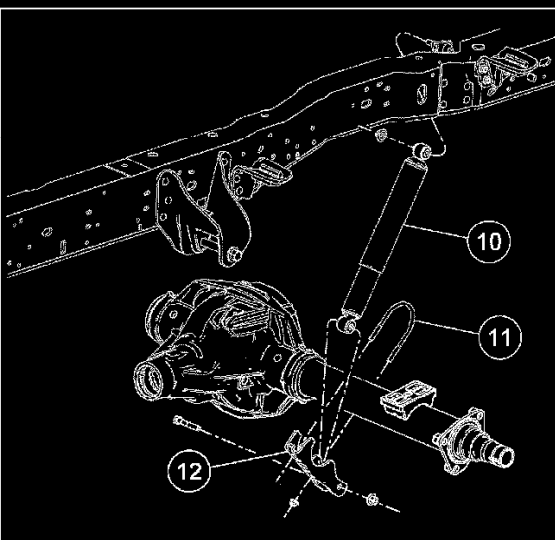
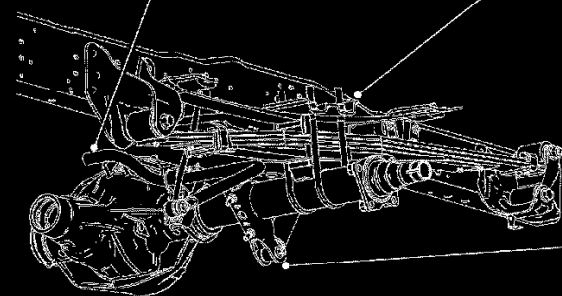
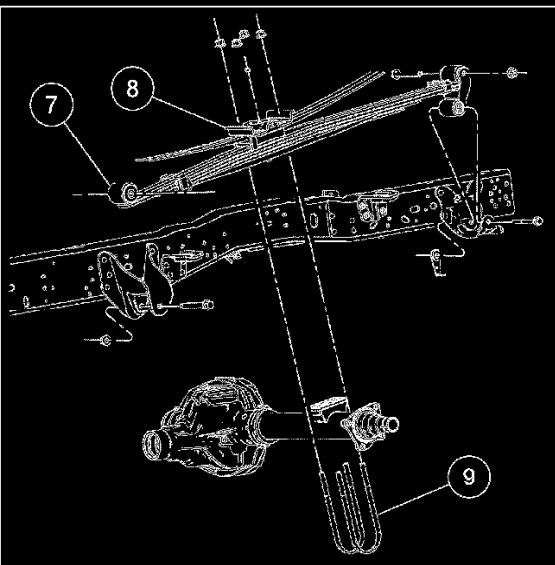
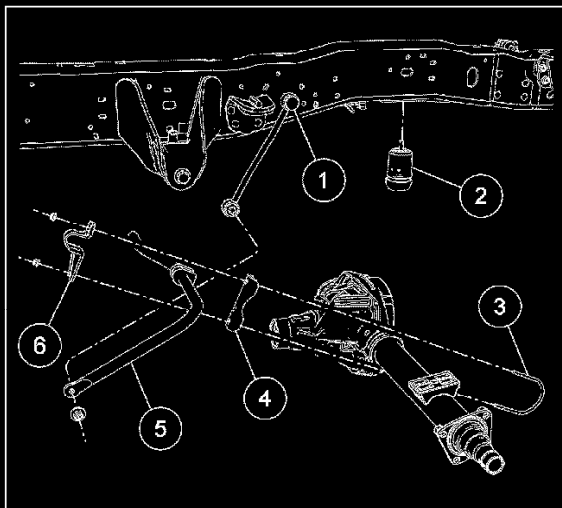
**Flexplate or Flywheel and Crankshaft Rear Seal-Exploded View**



| Item | Description                |
|------|----------------------------|
| 1    | Radius arm bracket (LH/RH) |
| 2    | Shock absorber             |
| 3    | Radius arm (LH/RH)         |
| 4    | Front axle I-beam (LH/RH)  |
| 5    | Upper ball joint adjuster  |
| 6    | Lower spring seat (LH/RH)  |

| Item | Description                   |
|------|-------------------------------|
| 7    | Coil spring                   |
| 8    | Front axle jounce bumper      |
| 9    | Front stabilizer bar link     |
| 10   | Front stabilizer bar          |
| 11   | Front suspension bar retainer |

## Rear Suspension - Exploded View



| Item | Description                                     |
|------|-------------------------------------------------|
| 1    | Link assembly                                   |
| 2    | Rear axle bumper assembly                       |
| 3    | U-bolt, M10-1.75 x 137.5/161.5 (Ford axle only) |
| 4    | Rear stabilizer bar bracket (Ford axle only)    |

| Item | Description                  |
|------|------------------------------|
| 5    | Stabilizer bar assembly      |
| 6    | Rear stabilizer bar retainer |
| 7    | Rear spring assembly         |
| 8    | Rear spring plate            |

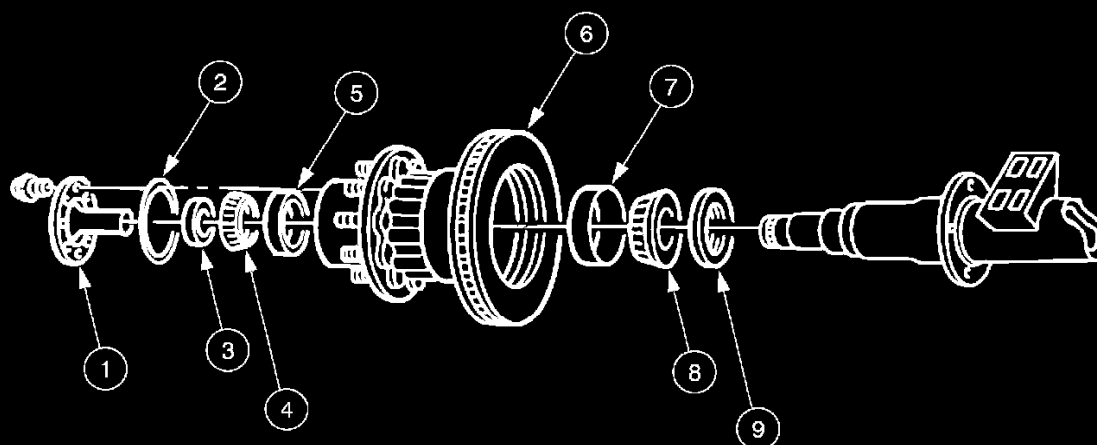
#### Part 1

| Item | Description                                                                | Item | Description                                           |
|------|----------------------------------------------------------------------------|------|-------------------------------------------------------|
| 9    | U-bolt, M16-2.0 x 108/225 (narrow frame 4 required, wide frame 6 required) | 11   | U-bolt, M10-1.50 x 101/136.7 (Ford axle only) (LH/RH) |
| 10   | Rear shock absorber                                                        | 12   | Lower shock bracket (Ford axle only)                  |

#### Part 2

Super Duty F-350 Narrow Frame Shown, F-350 Wide Frame Similar

### Wheel Bearing

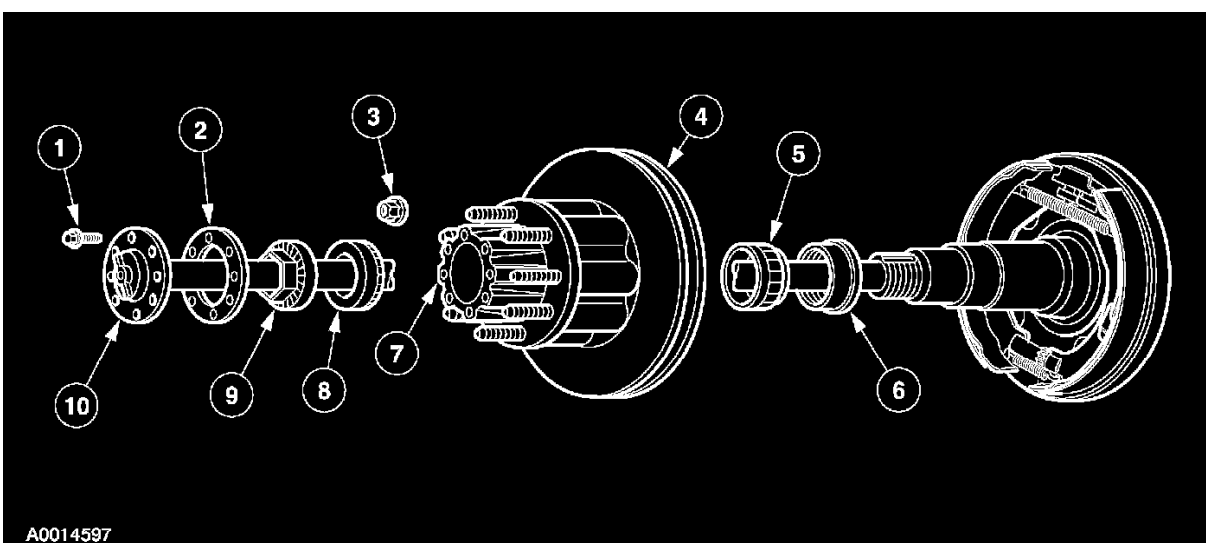


DE1979-A

| Item | Description                  |
|------|------------------------------|
| 1    | Axle shaft                   |
| 2    | O-ring                       |
| 3    | Hub nut                      |
| 4    | Outer rear wheel bearing     |
| 5    | Rear wheel bearing outer cup |

| Item | Description                  |
|------|------------------------------|
| 6    | Rear hub and rotor assembly  |
| 7    | Rear wheel bearing inner cup |
| 8    | Inner rear wheel bearing     |
| 9    | Rear hub seal                |

F-350



A0014597

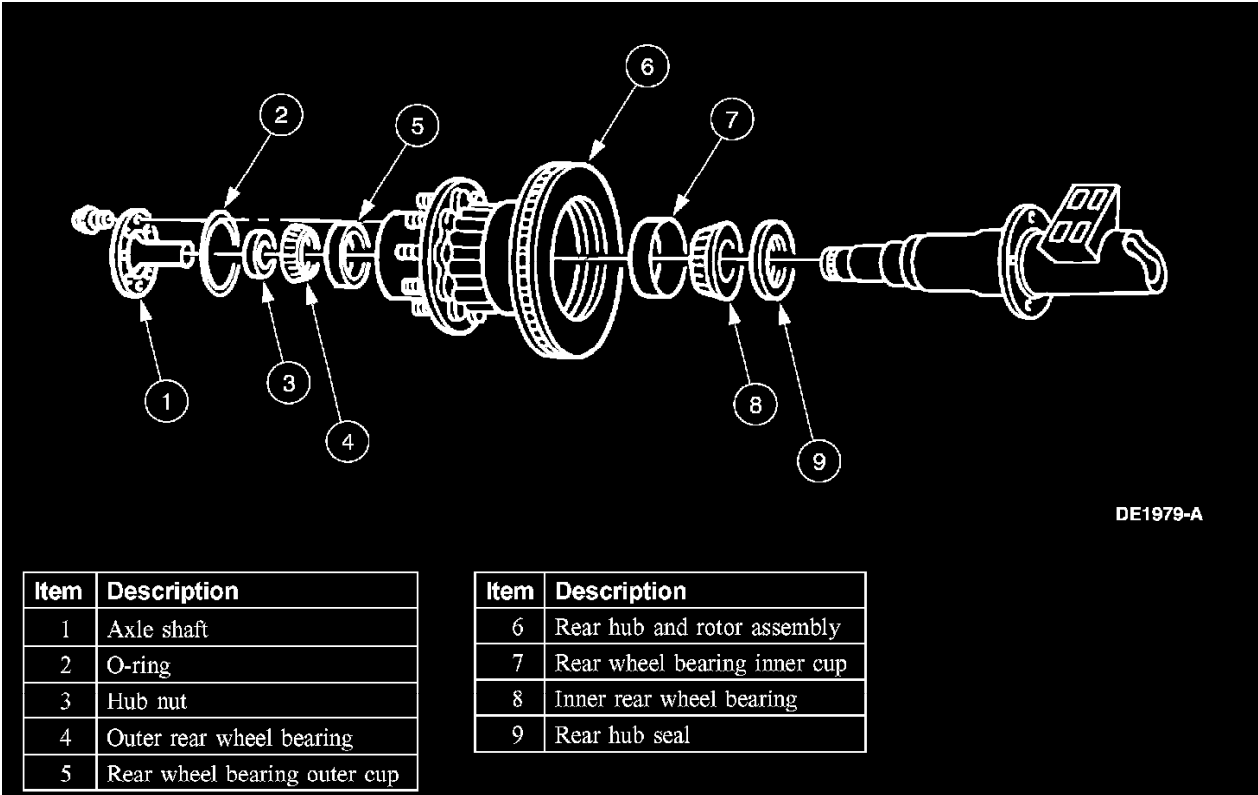
Part 1

| Item | Description                      |
|------|----------------------------------|
| 1    | Axle shaft bolt                  |
| 2    | Rear axle shaft gasket           |
| 3    | Wheel nut                        |
| 4    | Brake disc                       |
| 5    | Inner rear wheel bearing         |
| 6    | Hub seal                         |
| 7    | Rear hub (includes bearing cups) |
| 8    | Outer rear wheel bearing         |
| 9    | Hub nut                          |
| 10   | Axle shaft                       |

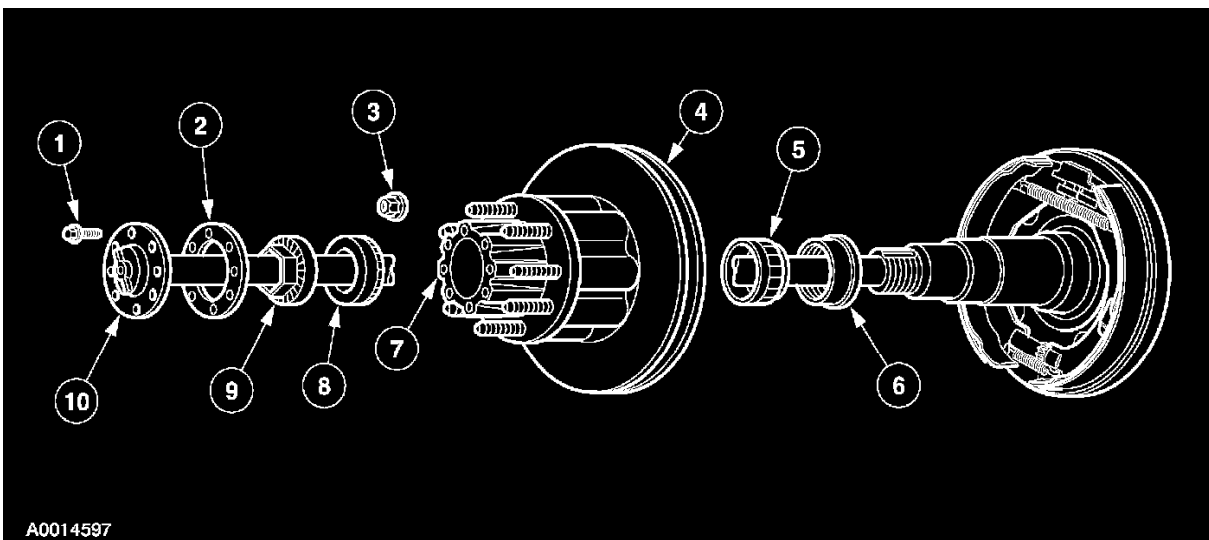
Part 2

F-450 and F-550

Wheel Hub



F-350

**Part 1**

| Item | Description                      |
|------|----------------------------------|
| 1    | Axle shaft bolt                  |
| 2    | Rear axle shaft gasket           |
| 3    | Wheel nut                        |
| 4    | Brake disc                       |
| 5    | Inner rear wheel bearing         |
| 6    | Hub seal                         |
| 7    | Rear hub (includes bearing cups) |
| 8    | Outer rear wheel bearing         |
| 9    | Hub nut                          |
| 10   | Axle shaft                       |

**Part 2**

F-450 and F-550



**C100** (BK)

**14305**

**12B637**

A/C clutch solenoid  
field coil



FEMALE

| Pin | Circuit     | Circuit function                  |
|-----|-------------|-----------------------------------|
| 1   | 321 (GY/WH) | A/C clutch relay, switched output |
| 2   | 57 (BK)     | Ground                            |

**C101** (BK)

**12B637**

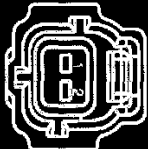
Crankshaft  
position sensor  
(6C315)

Gasoline engines



FEMALE

6.0L Diesel



FEMALE

\* 6.0L  
\*\* others

| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | **350 (GY) | Crankshaft position sensor (6C315) - |
|     | *349 (DB)  | Crankshaft position sensor (6C315) + |
| 2   | *350 (GY)  | Crankshaft position sensor (6C315) - |
|     | **349 (DB) | Crankshaft position sensor (6C315) + |

| Pin | Circuit   | Circuit function                                            |
|-----|-----------|-------------------------------------------------------------|
| 1   | 4 (WH/Bk) | Generator regulator "S" terminal, to generator "S" terminal |

## 12B637

6.0L\*



| Pin | Circuit   | Circuit function                                   |
|-----|-----------|----------------------------------------------------|
| 1   | 36 (Y5WH) | Voltage supplied at all times (overload protected) |
| *1  | 1119 (RD) | Voltage supplied at all times (overload protected) |

## 12B637

Oil pressure switch (9278)



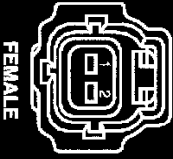
| Pin | Circuit      | Circuit function                       |
|-----|--------------|----------------------------------------|
| 1   | 1308 (BNICG) | Engine oil pressure indicator, control |

| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 391 (RD/YE)  | PCM power relay, switched power                              |
| 2   | 1276 (WH/OG) | Heated Positive Crankcase Ventilation (PCV) element, control |

**C107** (WH)

**14B102**

Cylinder head temperature sensor (68004)



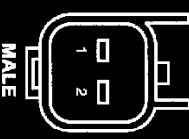
FEMALE

| Pin | Circuit      | Circuit function                        |
|-----|--------------|-----------------------------------------|
| 1   | 1102 (YE/LG) | Cylinder head temperature sensor signal |
| 2   | 359(G/Y/RO)  | Signal return                           |

**C108** (BK)

**12B637**

Knock sensor (12A659) #2



MALE

| Pin | Circuit      | Circuit function          |
|-----|--------------|---------------------------|
| 1   | 1274 (DG/WH) | Knock sensor #2, signal - |
| 2   | 311 (DG/VT)  | Knock sensor #2, signal + |

**C109** (BK)  
**12B637**  
Knock sensor (12A581) #1

MALE

| Pin | Circuit     | Circuit function          |
|-----|-------------|---------------------------|
| 1   | 1273 (YE)   | Knock sensor #1, signal - |
| 2   | 310 (YE/RD) | Knock sensor #1, signal + |

**C110** (BK)  
**12A581**

FEMALE

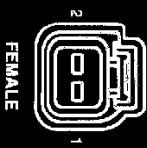
**12B637**

MALE

**C111** (BK)

**12B637**

Coil On Plug (COP) 1 (12A369)



| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)  | Voltage supplied in Start and Run (overload protected) |
| 2   | 1024 (LGWH) | Coil On Plug (COP) 1 control                           |

**C112** (BK)

**12B637**

Coil On Plug (COP) 2 (12A369)

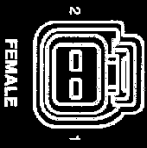


| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)  | Voltage supplied in Start and Run (overload protected) |
| 2   | 1026 (PKWH) | Coil On Plug (COP) 2 control                           |

**C113** (BK)

**12B637**

Coil On Plug (COP) 3 (12A386)

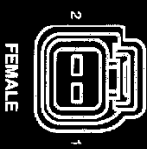


| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1028 (WH/PK) | Coil On Plug (COP) 3 control                           |

**C114** (BK)

**12B637**

Coil On Plug (COP) 4 (12A388)



| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1030 (DG/NT) | Coil On Plug (COP) 4 control                           |



**C115** (BK)

**12B637**

Coil On Plug (COP) 5 (12A366)



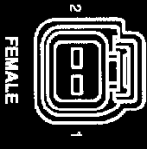
FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1021 (LG/YE) | Coil On Plug (COP) 5 control                           |

**C116** (BK)

**12B637**

Coil On Plug (COP) 6 (12A366)



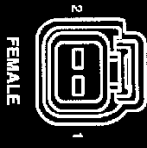
FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1025 (OG/YE) | Coil On Plug (COP) 6 control                           |

**C117** (BK)

**12B637**

Coil On Plug (COP) 7 (12A366)

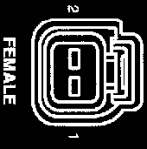


| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1027 (PK/LB) | Coil On Plug (COP) 7 control                           |

**C118** (BK)

**12B637**

Coil On Plug (COP) 8 (12A366)

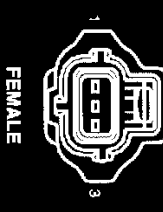


| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1029 (WH/RD) | Coil On Plug (COP) 8 control                           |

**C124** (BK)

**12A581**

Brake fluid level switch (2L414)

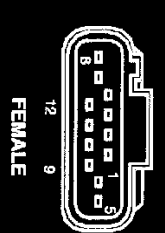


| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 57 (BK)     | Ground                                   |
| 2   | 512 (TN/LG) | Brake fluid level switch (2L414), return |
| 3   | 531 (DG/YE) | Brake fluid level switch (2L414), signal |

**C125** (BK)

**12A581**

Windshield wiper motor (17D339)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 61 (YE/RD)   | Front wiper switch circuit H                       |
| 2   | -            | not used                                           |
| 3   | 676 (PK/OG)  | Ground                                             |
| 4   | 679 (GY/BK)  | Vehicle Speed Sensor (VSS), signal                 |
| 5   | 65 (DG)      | Voltage supplied at all times (overload protected) |
| 6   | 57 (BK)      | Ground                                             |
| 7   | 941 (BK/MH)  | Windshield washer pump motor (17618), feed         |
| 8   | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected)   |
| 9   | 63 (RD)      | Front wiper switch circuit A                       |
| 10  | 56 (DB/OG)   | Front wiper switch circuit C                       |
| 11  | 58 (WH)      | Front wiper switch circuit B                       |
| 12  | 589 (OG)     | Front washer switch circuit W                      |

**C128** (BK)

Mass Air Flow (MAF) sensor (12A697)

**12B637**

Gasoline

**12A581**

Diesel

| Pin | Circuit       | Circuit function                                     |
|-----|---------------|------------------------------------------------------|
| 1   | 743 (GY)      | Intake Air Temperature (IAT) sensor (12A697), signal |
|     | *359 (GY/RED) | Signal return                                        |
| 2   | 359 (GY/RED)  | Signal return                                        |
|     | *361 (RD)     | PCM power relay, switched power                      |
| 3   | 967 (LB/RED)  | Mass Air Flow (MAF) sensor (12B579), signal          |
|     | *570 (BK/WH)  | Ground                                               |
| 4   | 968 (TV/LB)   | Mass Air Flow (MAF) sensor (12B579) signal, return   |
| 5   | 570 (BK/WH)   | Ground                                               |
|     | *967 (LB/RED) | Mass Air Flow (MAF) sensor (12B579), signal          |
| 6   | 361 (RD)      | PCM power relay, switched power                      |
|     | *743 (GY)     | Intake Air Temperature (IAT) sensor (12A697), signal |

**C129** (BK)

**12A581**

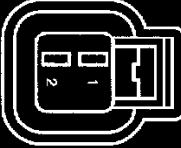
Intake air temperature sensor (12A697)

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 1   | 359 (GY/RED) | Signal return                                        |
| 2   | 743 (GY)     | Intake Air Temperature (IAT) sensor (12A697), signal |

**C131** (BK)

**12A581**

Horn (13882)



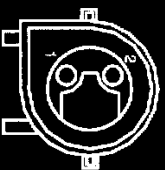
FEMALE

| Pin | Circuit  | Circuit function                   |
|-----|----------|------------------------------------|
| 1   | 57 (BK)  | Ground                             |
| 2   | 6 (YELG) | Horn relay, switched power, output |

**C132** (BK)

**14K073**

Ambient air temperature sensor (19E702)

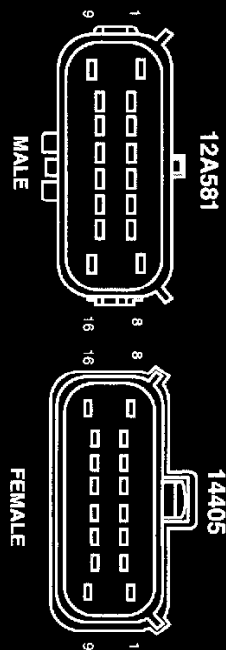


FEMALE

| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 470 (PK/BK)  | Sensor signal return                           |
| 2   | 3061 (LB/OG) | Ambient air temperature sensor (19E702) signal |

**C133** (3V)

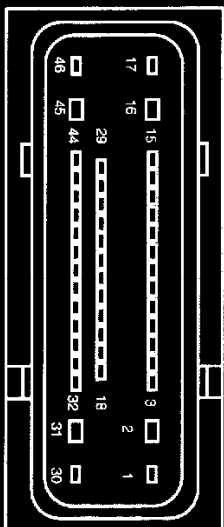
\* Gas only



- |      |              |
|------|--------------|
| (1)  | 52 (YE)      |
| (2)  | 140 (BK/PK)  |
| (3)  | 3074 (BK/OG) |
| (4)  | 1703 (RD/LG) |
| (5)  | 1706 (WH/BK) |
| (6)  | 926 (LB/OG)  |
| (7)  | 2022 (BR/OG) |
| (8)  | 5 (OG/LB)    |
| (9)  | 64 (DG)      |
| (10) | 791 (RD/PK)  |
| (11) | 523 (RD/PK)  |
| (12) | 519 (LG/BK)  |
| (13) | 1702 (GY/LB) |
| (14) | 391 (RD/YE)  |
| (15) | 91 (VT/WH)   |
| (16) | 9 (LG/OG)    |

**C135** (BK)**12A581**

ABS control module (2C219)

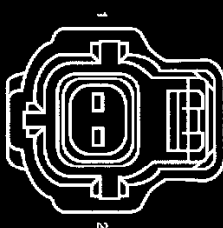


FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | -           | not used                                           |
| 2   | 534 (YE/LG) | Voltage supplied at all times (overload protected) |
| 3   | 1908 (WH-)  | High speed CAN +                                   |
| 4   | -           | not used                                           |
| 5   | -           | not used                                           |
| 6   | -           | not used                                           |
| 7   | -           | not used                                           |
| 8   | -           | not used                                           |
| 9   | -           | not used                                           |
| 10  | -           | not used                                           |
| 11  | -           | not used                                           |
| 12  | 521 (TN/OG) | Wheel speed sensor, left front (2C205) +           |
| 13  | 522 (TN/BK) | Wheel speed sensor, left front (2C205) -           |
| 14  | -           | not used                                           |
| 15  | -           | not used                                           |
| 16  | 530 (LG/YE) | Chassis Ground                                     |
| 17  | -           | not used                                           |
| 18  | 1909 (BK)   | High speed CAN -                                   |
| 19  | -           | not used                                           |
| 20  | -           | not used                                           |
| 21  | 679 (GY/BK) | Vehicle Speed Sensor (VSS), signal                 |
| 22  | -           | not used                                           |
| 23  | -           | not used                                           |

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 24  | -           | not used                                           |
| 25  | -           | not used                                           |
| 26  | 514 (YE/RD) | Wheel speed sensor, right front (2C204) +          |
| 27  | 516 (YE/BK) | Wheel speed sensor, right front (2C204) -          |
| 28  | -           | not used                                           |
| 29  | -           | not used                                           |
| 30  | -           | not used                                           |
| 31  | 532 (OG/YE) | Voltage supplied at all times (overload protected) |
| 32  | 533 (TN/RD) | Voltage in Run (overload protected)                |
| 33  | -           | not used                                           |
| 34  | -           | not used                                           |
| 35  | -           | not used                                           |
| 36  | -           | not used                                           |
| 37  | -           | not used                                           |
| 38  | -           | not used                                           |
| 39  | -           | not used                                           |
| 40  | -           | not used                                           |
| 41  | 519 (LG/BK) | Rear axle speed sensor (4B409) -                   |
| 42  | 523 (RD/PK) | Rear axle speed sensor (4B409) +                   |
| 43  | -           | not used                                           |
| 44  | -           | not used                                           |
| 45  | 530 (LG/YE) | Chassis Ground                                     |
| 46  | -           | not used                                           |

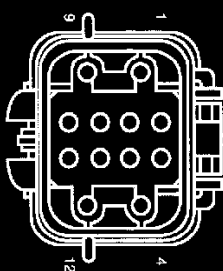
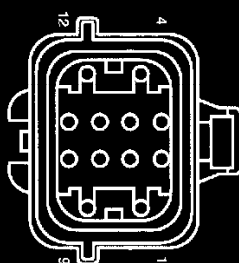
Windshield washer  
pump motor (17618)



FEMALE

| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 941 (BK/MH) | Windspeed washer pump motor (17618), feed |
| 2   | 57 (BK)     | Ground                                    |

## 14405

**MALE**

**FEMALE**

- |     |                               |      |                               |
|-----|-------------------------------|------|-------------------------------|
| (1) | $^{26}_{-10}$<br>*49 (OG)     | (7)  | $^{26}_{-10}$<br>*140 (BK/PK) |
| (2) | $^{26}_{-10}$<br>*5 (OG/LB)   | (8)  | $^{26}_{-10}$<br>*1683 (DG)   |
| (3) | $^{26}_{-10}$<br>*9 (LG/OG)   | (9)  | $^{26}_{-10}$<br>*63 (BK/LG)  |
| (4) | $^{26}_{-10}$<br>49 (OG)      | (10) | $^{26}_{-10}$<br>*52 (YE)     |
| (5) | $^{26}_{-10}$<br>*523 (RD/PK) | (11) | $^{26}_{-10}$<br>*64 (DG)     |
| (6) | $^{26}_{-10}$<br>*963 (BK/LG) |      |                               |
|     | $^{26}_{-10}$<br>*519 (LG/BK) |      |                               |

6.0L

• Others



**C141** (BU)**15525**Heated Oxygen  
Sensor (HO2S)  
#22 (9G444)

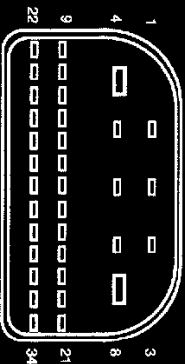
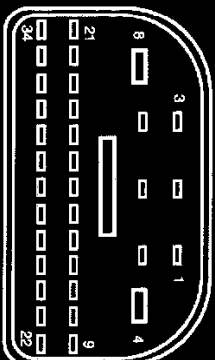
| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 390 (TNVE)  | Heated Oxygen Sensor (HO2S) #22 (9G444), heater |
| 2   | 391 (RDVE)  | PCM power relay, switched power                 |
| 3   | 398 (VTLG)  | Heated Oxygen Sensor (HO2S) #22 (9G444), input  |
| 4   | 1704 (VTLG) | Signal return                                   |

**C142** (BU)**15525**Heated Oxygen Sensor  
(HO2S) #12 (9G444)

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 389 (WHBK)  | Heated Oxygen Sensor (HO2S) #12 (9G444), heater |
| 2   | 391 (RDVE)  | PCM power relay, switched power                 |
| 3   | 392 (RDLG)  | Heated Oxygen Sensor (HO2S) #12 (9G444), input  |
| 4   | 1704 (VTLG) | Signal return                                   |

**C145 (GY)**

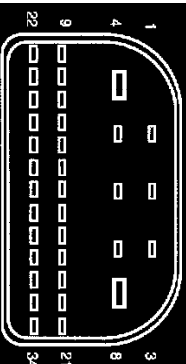
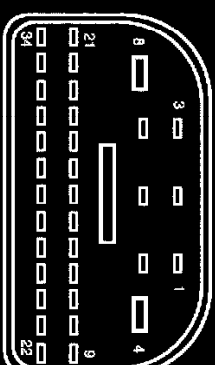
\* 6.0L  
 \*\* others  
 \*\*\* without daytime running lamps  
 \*\*\*\* with manual transmission diesel  
 + with EATC

**14401****MALE****12A581****FEMALE**

|      |              |      |               |      |              |      |                |
|------|--------------|------|---------------|------|--------------|------|----------------|
| (1)  | 16 (RD/LG)   | (18) | 3011 (BK/OG)  | (1)  | 16 (RD/LG)   | (18) | 3011 (BK/OG)   |
| (2)  | 787 (PK/BK)  | (19) | 3835 (YEW/H)  | (2)  | *787 (PK/BK) | (19) | 3835 (YEW/H)   |
| (3)  | 15 (RD/YE)   | (20) | 9 (LG/OG)     | (3)  | **           | (20) | 9 (LG/OG)      |
| (4)  | -            | (21) | 5 (OG/LB)     | (4)  | 15 (RD/YE)   | (21) | 5 (OG/LB)      |
| (5)  | 1040 (RD/BK) | (22) | 142 (LB/RD)   | (5)  | ***          | (22) | *142 (LB/RD)   |
| (6)  | 13 (RD/BK)   | (23) | 640 (RD/YE)   | (6)  | -            | (23) | **             |
| (7)  | -            | (24) | -             | (7)  | 1040 (RD/BK) | (24) | ***640 (RD/YE) |
| (8)  | -            | (25) | -             | (8)  | 1033 (RD/YE) | (25) | -              |
| (9)  | 463 (RD/WH)  | (26) | -             | (9)  | -            | (26) | -              |
| (10) | 1002 (BK/PK) | (27) | 1886 (GY)     | (10) | -            | (27) | -              |
| (11) | -            | (28) | 162 (LG/RD)   | (11) | 463 (RD/WH)  | (28) | -              |
| (12) | 3014 (BK/WH) | (29) | 140 (BK/PK)   | (12) | 1002 (BK/PK) | (29) | **1886 (GY)    |
| (13) | 3010 (TN)    | (30) | 1308 (BN/OG)  | (13) | -            | (30) | 162 (LG/RD)    |
| (14) | 356 (DB/LG)  | (31) | 296 (WH/VT)   | (14) | 3014 (BK/WH) | (31) | 140 (BK/PK)    |
| (15) | 3061 (LB/OG) | (32) | + 57 (BK)     | (15) | 3010 (TN)    | (32) | 1308 (BN/OG)   |
| (16) | ***          | (33) | 3012 (WH)     | (16) | *356 (DB/LG) | (33) | 296 (WH/VT)    |
| (17) | 133 (BK)     | (34) | 3013 (GY/BK)  | (17) | 3061 (LB/OG) | (34) | 3012 (WH)      |
|      |              |      | + 470 (PK/BK) |      | ***          |      | 3013 (GY/BK)   |
|      |              |      | ***           |      | 133 (BK)     |      | 3013 (GY/BK)   |
|      |              |      |               |      | 3015 (WH/RD) |      | 470 (PK/BK)    |
|      |              |      |               |      | (17)         |      | ***            |

**C146 (BK)**

\* without daytime running lamps  
 \*\* w/4wd

**14401****MALE****12A581****FEMALE**

|      |               |      |             |      |             |      |             |
|------|---------------|------|-------------|------|-------------|------|-------------|
| (1)  | -             | (18) | 810 (RD/LG) | (1)  | -           | (18) | 810 (RD/LG) |
| (2)  | 752 (YE/RD)   | (19) | 58 (WH)     | (2)  | 752 (YE/RD) | (19) | 58 (WH)     |
| (3)  | 754 (LG/WH)   | (20) | 107 (VT)    | (3)  | 754 (LG/WH) | (20) | 107 (VT)    |
| (4)  | -             | (21) | 904 (LG/RD) | (4)  | -           | (21) | 904 (LG/RD) |
| (5)  | -             | (22) | 679 (GY/BK) | (5)  | -           | (22) | 679 (GY/BK) |
| (6)  | -             | (23) | 151 (LB/BK) | (6)  | -           | (23) | 151 (LB/BK) |
| (7)  | 570 (BK/WH)   | (24) | 399 (BN/YE) | (7)  | 570 (BK/WH) | (24) | 399 (BN/YE) |
| (8)  | 261 (OG/BK)   | (25) | 676 (PK/OG) | (8)  | 261 (OG/BK) | (25) | 676 (PK/OG) |
| (9)  | 61 (YE/RD)    | (26) | 512 (TN/LG) | (9)  | 61 (YE/RD)  | (26) | 512 (TN/LG) |
| (10) | **605 (RD)    | (27) | 531 (DG/YE) | (10) | 605 (RD)    | (27) | 531 (DG/YE) |
| (11) | **145 (GY/BK) | (28) | -           | (11) | 145 (GY/BK) | (28) | -           |
| (12) | -             | (29) | 3 (LG/WH)   | (12) | -           | (29) | 3 (LG/WH)   |
| (13) | 56 (DB/OG)    | (30) | 2 (WH/LB)   | (13) | 56 (DB/OG)  | (30) | 2 (WH/LB)   |
| (14) | 210 (LB)      | (31) | 63 (RD)     | (14) | 210 (LB)    | (31) | 63 (RD)     |
| (15) | 589 (OG)      | (32) | 975 (BN/YE) | (15) | 589 (OG)    | (32) | 975 (BN/YE) |
| (16) | 224 (TN/WH)   | (33) | 1908 (WH)   | (16) | 224 (TN/WH) | (33) | 1908 (WH)   |
| (17) | 348 (VT)      | (34) | 1909 (BK)   | (17) | * -/gas     | (34) | 1909 (BK)   |
|      |               |      |             |      | 348 (VT)    |      |             |

**C150** (BK)

**12A581**

Wheel speed sensor, left front (2C205)



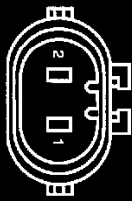
FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 521 (TN/G)  | Wheel speed sensor, left front (2C205) + |
| 2   | 522 (TN/BK) | Wheel speed sensor, left front (2C205) - |

**C152** (BK)

**15A211**

Fog lamp, left front (152C0)



FEMALE

| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | 57 (BK)    | Ground                               |
| 2   | 478 (TN/G) | Fog lamp relay, output, to fog lamps |

**C160** (BK)

**12A581**

Wheel speed sensor, right front (2C204)



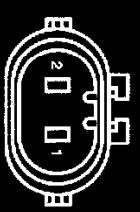
FEMALE

| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 516 (YE/BK) | Wheel speed sensor, right front (2C204) - |
| 2   | 514 (YE/RD) | Wheel speed sensor, right front (2C204) + |

**C162** (BK)

**15A211**

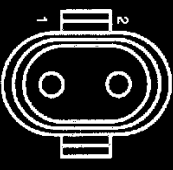
Fog lamp, right front (1S200)



FEMALE

| Pin | Circuit     | Circuit function                     |
|-----|-------------|--------------------------------------|
| 1   | 57 (BK)     | Ground                               |
| 2   | 478 (TN/OG) | Fog lamp relay, output, to fog lamps |

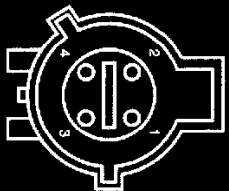
**C169** (WH)  
**15525**  
Reversing lamps  
switch



FEMALE

| Pin | Circuit     | Circuit function             |
|-----|-------------|------------------------------|
| 1   | 324 (YEL/G) | Reversing lamp relay control |
| 2   | 57 (BK)     | Ground                       |

**C171** (BK)  
**12B637**  
Heated Oxygen Sensor  
(HO2S) #11 (9F472)



FEMALE

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                 |
| 2   | 387 (RD/WH) | Heated Oxygen Sensor (HO2S) #11 (9F472), heater |
| 3   | 359 (GY/RO) | Signal return                                   |
| 4   | 74 (GY/LB)  | Heated Oxygen Sensor (HO2S) #11 (9F472), input  |

**C172** (BK)  
**12B637**  
 Heated Oxygen Sensor (HO2S) #21 (9F-472)

FEMALE

| Pin | Circuit     | Circuit function                                 |
|-----|-------------|--------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                  |
| 2   | 388 (YE/LB) | Heated Oxygen Sensor (HO2S) #21 (9F-472), heater |
| 3   | 359 (GY/HD) | Signal return                                    |
| 4   | 94 (RD/BK)  | Heated Oxygen Sensor (HO2S) #21 (9F-472), input  |

**C174** (GY)  
**12B637**  
 Ignition (transformer capacitor 1 (1980))

FEMALE

| Pin | Circuit    | Circuit function                                       |
|-----|------------|--------------------------------------------------------|
| 1   | 16 (RD/LG) | Voltage supplied in Start and Run (overload protected) |

**C175a** (BK)**12B637**Powertrain Control Module  
(PCM) (AAA1001)

5.4L

6.8L



FEMALE

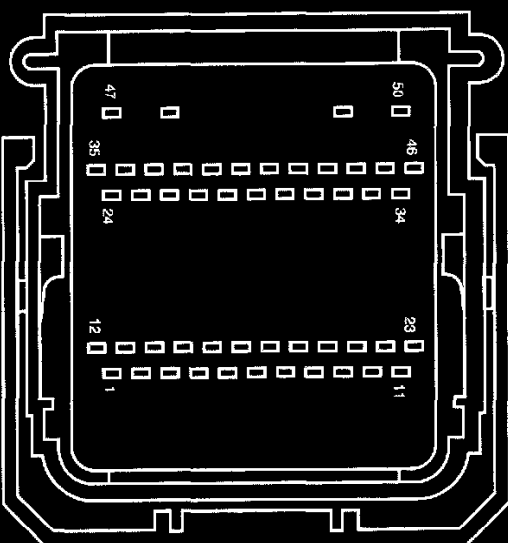
| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 191(LGBK)    | Vapor management valve, control                              |
| 2   | 1276 (WH/OG) | Heated Positive Crankcase Ventilation (PCV) element, control |
| 3   | 331 (PK/YE)  | not used 6.8L                                                |
| 4   | 439 (TN/LG)  | A/C clutch relay, control                                    |
| 5   | 48           | A/C pressure switch, signal                                  |
| 6   | —            | Drain wire - shield                                          |
| 7   | —            | not used                                                     |
| 8   | 1142 (MHRD)  | Coil On Plug (COP) 10, control                               |
| 9   | —            | not used 5.4L                                                |
| 10  | 1029 (MHRD)  | Coil On Plug (COP) 8, control                                |
| 11  | 1021 (LG/YE) | Coil On Plug (COP) 5, control                                |
| 12  | 1026 (PK/WH) | Coil On Plug (COP) 2, control                                |
| 13  | 1028 (WH/PK) | Coil On Plug (COP) 3, control                                |
| 14  | —            | not used 5.4L                                                |
| 15  | 114 (YE/BK)  | Coil On Plug (COP) 9, control                                |
| 16  | 1030 (DG/NT) | Coil On Plug (COP) 4, control                                |
| 17  | 1025 (OG/YE) | Coil On Plug (COP) 6, control                                |
| 18  | 1027 (PK/LB) | Coil On Plug (COP) 7, control                                |
| 19  | 1024 (LG/WH) | Coil On Plug (COP) 1, control                                |
| 20  | —            | not used                                                     |
| 21  | 225 (BK/YE)  | Fuel rail temperature sensor signal                          |
| 22  | —            | not used                                                     |

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 21  | —            | not used                                             |
| 22  | 743 (GY)     | Intake Air Temperature (IAT) sensor (12A697), signal |
| 23  | —            | not used                                             |
| 24  | —            | not used                                             |
| 25  | 967 (LB/RD)  | Mass Air Flow (MAF) sensor (12B579), signal          |
| 26  | 968 (TN/LB)  | Mass Air Flow (MAF) sensor (12B579), signal, return  |
| 27  | 263 (YE/LB)  | Engine Oil Temperature (EOT) sensor, signal          |
| 28  | —            | not used 6.8L                                        |
| 29  | 74 (GY/LB)   | Heated Oxygen Sensor (HO2S) #1 (9F472), input        |
| 30  | 94 (RD/BK)   | Heated Oxygen Sensor (HO2S) #21 (9F472), input       |
| 31  | 1274 (DG/WH) | Knock sensor #2, signal -                            |
| 32  | 311 (DG/NT)  | Knock sensor #2, signal +                            |
| 33  | 1269 (OG/LG) | Fuel rail pressure sensor signal                     |
| 34  | —            | not used                                             |
| 35  | 1835 (DB/YE) | Electronic Throttle Control (ETC) motor +/-          |
| 36  | 556 (WH)     | Fuel injector 2, control                             |
| 37  | 568 (BP/LB)  | Fuel injector 4, control                             |
| 38  | 560 (LG/OG)  | Fuel injector 6, control                             |
| 39  | 562 (LB)     | Fuel injector 8, control                             |
| 40  | 1101 (GY/RD) | Fuel injector 10 (9F593) control                     |
| 41  | —            | not used 5.4L                                        |
| 42  | —            | not used                                             |

| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 41  | 1102 (YEL/G) | Cylinder head temperature sensor signal     |
| 42  | -            | not used                                    |
| 43  | 373 (WH/RD)  | Charge Motion Control Valve (CMCV) monitor  |
|     | -            | not used 6.8L                               |
| 44  | 365 (OG)     | Camshaft position sensor 2 (6B289), signal  |
|     | -            | not used 6.8L                               |
| 45  | 282 (DB/OG)  | Camshaft position sensor 1 (6B289), signal  |
| 46  | 350 (GY)     | Crankshaft position sensor (6C315) -        |
| 47  | 349 (DB)     | Crankshaft position sensor (6C315) +        |
| 48  | 1273 (YE)    | Knock sensor #1, signal -                   |
| 49  | 310 (YE/RD)  | Knock sensor #1, signal +                   |
| 50  | 367 (BF)     | Charge Motion Control Valve (CMCV) control  |
|     | -            | not used 6.8L                               |
| 51  | 1B30 (RD/LG) | Electronic Throttle Control (ETC) motor -/+ |
| 52  | 555 (TN)     | Fuel Injector 1 (9F593), control            |
| 53  | 557 (BN/YE)  | Fuel Injector 3 (9F593), control            |
| 54  | 559 (TN/BK)  | Fuel Injector 5 (9F593), control            |
| 55  | 561 (TN/RD)  | Fuel Injector 7 (9F593), control            |
| 56  | 1100 (GY/BK) | Fuel Injector 9 (9F593), control            |
|     | -            | not used 5.4L                               |

| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 57  | 3073 (RD/W+) | Fuel rail temperature sensor reference voltage             |
| 58  | 359 (GY/RD)  | Signal return                                              |
| 59  | 1948 (OG/LB) | Throttle Position Sensor (TPS) (9F391), signal return      |
| 60  | 357 (YE/WH)  | Throttle Position Sensor (TPS) (9F391), signal 2           |
| 61  | 356 (GY/WH)  | Throttle Position sensor (TPS) (9F391), signal 1           |
| 62  | -            | not used                                                   |
| 63  | -            | not used                                                   |
| 64  | 1022 (DB/YE) | Intake Manifold Tuning Valve (IMTV) control                |
|     | -            | not used 5.4L                                              |
| 65  | 307 (BK/YE)  | Brake pressure switch (2B264), input                       |
| 66  | 1945 (VT/WH) | Throttle Position Sensor (TPS) (9F391), reference voltage  |
| 67  | 641 (VT/LB)  | Variable camshaft timing (VCT) solenoid 1 (6B297), control |
|     | -            | not used 5.8L                                              |
| 68  | 642 (DG/OG)  | Variable camshaft timing (VCT) solenoid 2 (6B297), control |
| 68  | -            | not used 5.8L                                              |
| 69  | 387 (RD/WH)  | Heated Oxygen Sensor (HO2S) #11 (9F472), heater            |
| 70  | 388 (YE/LB)  | Heated Oxygen Sensor (HO2S) #21 (9F472), heater            |



**C175b** (BK)**12A581**
 Powertrain  
 Control Module  
 (PCM) (12A650)

 \*Automatic transmission  
 \*\*Manual transmission

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 1   | 239 (WH/OG)  | Vehicle speed signal                                 |
| 2   | 329 (PK)     | Starter relay control                                |
| 3   | 791 (RD/PK)  | Fuel tank pressure transducer sensor (9C052), signal |
| 4   | 3013 (GY/BK) | Accelerator pedal position sensor 3, power           |
| 5   | 3835 (YE/WH) | Accelerator pedal position sensor 1, signal          |
| 6   | 3011 (BK/OG) | Signal return                                        |
| 7   | 2246 (OG/YE) | Power take-off (PTO) control signal                  |
| 8   | 810 (RD/LG)  | Brake pedal position switch (13480), input           |
| 9   | 2243 (OG/WH) | Power take off engage signal                         |
| 10  | 567 (LBYE)   | Ground                                               |
| 11  | 1908 (WH)    | High speed CAN +                                     |
| 12  | 926 (LB/OG)  | Fuel pump driver module control signal               |
| 13  | 91 (VT/WH)   | EVAP canister vent control solenoid, control         |

| Pin | Circuit      | Circuit function                                                   |
|-----|--------------|--------------------------------------------------------------------|
| 14  | 1702 (GY/LB) | Heated Oxygen Sensor (HO2S) #13 (9G444), input                     |
| 15  | -            | not used                                                           |
| 16  | 3010 (TTN)   | Voltage reference                                                  |
| 17  | 3012 (WH)    | Accelerator pedal position sensor 2, signal                        |
| 18  | 3014 (BK/WH) | Accelerator pedal position sensor 3, return                        |
| 19  | 151 (LB/BK)  | Speed control switch input                                         |
| 20  | 1896 (GY)    | Vehicle Emergency Messaging System (VEMS) airbag activation signal |
| 21  | 2022 (BN/OG) | Fuel pump driver module return                                     |
| 22  | 463 (RD/WH)  | Four-wheel drive control module neutral switch sense               |
| 23  | 1909 (BK)    | High speed CAN -                                                   |
| 24  | *324 (YE/LG) | Reversing lamps relay control                                      |
| 25  | 76 (LG/WH)   | Tachometer output                                                  |

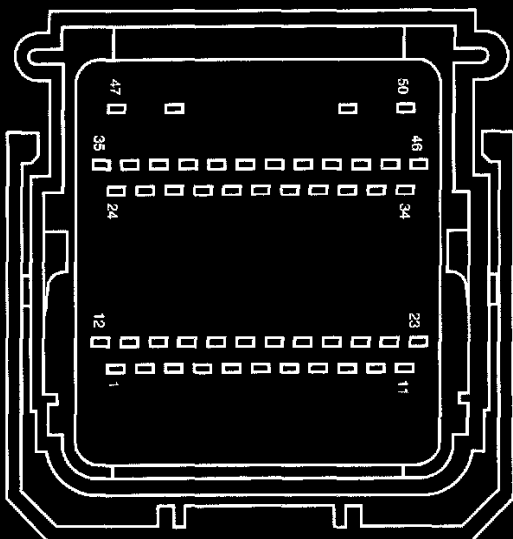
| Pin | Circuit       | Circuit function                                        |
|-----|---------------|---------------------------------------------------------|
| 26  | 2242 (OG)     | Power take-off                                          |
| 27  | * 224 (TN/WH) | Tow/haul switch signal                                  |
| 28  | 3015 (WH/RD)  | Accelerator pedal position sensor 3, signal             |
| 29  | 679 (GY/BK)   | Vehicle Speed Sensor (VSS), signal                      |
| 30  | 133 (BK)      | Speed control switch return                             |
| 31  | -             | not used                                                |
| 32  | **306 (TN/LB) | Clutch pedal deactivation switch signal                 |
| 33  | -             | not used                                                |
| 34  | **92 (LB/YE)  | Clutch pedal starter interlock switch signal            |
| 35  | 361 (RD)      | PCM power relay, switched power                         |
| 36  | 361 (RD)      | PCM power relay, switched power                         |
| 37  | -             | not used                                                |
| 38  | 1706 (WH/BK)  | Heated Oxygen Sensor (HO2S) #13 (9G444), return         |
| 39  | -             | not used                                                |
| 40  | 3074 (BK/OG)  | Fuel tank pressure transducer sensor, voltage reference |
| 41  | 1708 (RD/LG)  | Signal return                                           |
| 42  | 2244 (OG/LB)  | Power take-off status                                   |
| 43  | -             | not used                                                |
| 44  | 107 (VT)      | Flash EE prom module programming signal (FEPS)          |
| 45  | 1683 (DG)     | Voltage supplied at all times (overload protected)      |
| 46  | 1146 (LG/RD)  | Transmission range, park signal                         |
| 47  | 570 (BK/WH)   | Ground                                                  |
| 48  | 570 (BK/WH)   | Ground                                                  |
| 49  | 570 (BK/WH)   | Ground                                                  |
| 50  | 570 (BK/WH)   | Ground                                                  |

**C175c** (BK)

**15525**

Powertrain Control  
Module (PCM)  
(12A650)

\*Automatic transmission  
\*\*With box



FEMALE

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 1   | *237 (OG/YE) | Shift Solenoid Pressure Control A (SSPC-A) (7J136), control |
| 2   | *315 (VT/OG) | Shift Solenoid Pressure Control B (SSPC-B) (7J136), control |
| 3   | *136 (DB/YE) | Output Shaft Speed (OSS) sensor (7H103), signal             |
| 4   | *134 (GY/OG) | Intermediate Shaft Speed (ISS) sensor (7M101), signal       |
| 5   | -            | not used                                                    |
| 6   | -            | not used                                                    |
| 7   | -            | not used                                                    |
| 8   | -            | not used                                                    |
| 9   | -            | not used                                                    |
| 10  | *971 (PK/BK) | Shift Solenoid Pressure Control C (SSPC-C) (7J136), control |
| 11  | *236 (BK/LG) | Shift Solenoid Pressure Control D (SSPC-D) (7J136), control |
| 12  | *125 (DB/WH) | Shift Solenoid Pressure Control E (SSPC-E) (7J136), control |

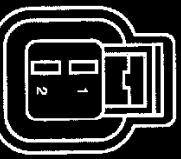
| Pin | Circuit       | Circuit function                                         |
|-----|---------------|----------------------------------------------------------|
| 13  | *924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid (7J136), control  |
| 14  | -             | not used                                                 |
| 15  | *970 (DG/WH)  | Turbine Shaft Speed (TSS) sensor (7H103), signal         |
| 16  | -             | not used                                                 |
| 17  | -             | not used                                                 |
| 18  | -             | not used                                                 |
| 19  | *199 (LB/YE)  | Transmission range sensor assembly (TR-P) (7H557) signal |
| 20  | -             | not used                                                 |
| 21  | -             | not used                                                 |
| 22  | -             | not used                                                 |
| 23  | *480 (VT/YE)  | Pressure Control (PC-A) solenoid (7G383), control        |
| 24  | **392 (RD/LG) | Heated Oxygen Sensor (HO2S) #12 (9G444), input           |
| 25  | **393 (VT/LG) | Heated Oxygen Sensor (HO2S) #22 (9G444), input           |

| Pin | Circuit       | Circuit function                                                     |
|-----|---------------|----------------------------------------------------------------------|
| 26  | —             | not used                                                             |
| 27  | —             | not used                                                             |
| 28  | —             | not used                                                             |
| 29  | *923 (OG/BK)  | Transmission Fluid Temperature (TFT) sensor (7H141), signal          |
| 30  | —             | not used                                                             |
| 31  | —             | not used                                                             |
| 32  | —             | not used                                                             |
| 33  | —             | not used                                                             |
| 34  | —             | not used                                                             |
| 35  | —             | not used                                                             |
| 36  | —             | not used                                                             |
| 37  | —             | not used                                                             |
| 38  | —             | not used                                                             |
| 39  | *3087 (DGM/T) | Reference voltage, Transmission Range Sensor Assembly (TR-P) (7H141) |
| 40  | —             | not used                                                             |
| 41  | 1704 (V7/LG)  | Signal return                                                        |
| 42  | —             | not used                                                             |
| 43  | —             | not used                                                             |
| 44  | —             | not used                                                             |
| 45  | —             | not used                                                             |
| 46  | —             | not used                                                             |
| 47  | **389 (WH/BK) | Heated Oxygen Sensor (HO2S) #12 (9G444), heater                      |
| 48  | **390 (TN/YE) | Heated Oxygen Sensor (HO2S) #22 (9G444), heater                      |
| 49  | *1876 (YE/WH) | Shift solenoid VPWR                                                  |
| 50  | *1867 (OG)    | Transmission Range Sensor Assembly (TR-P) (7H557), Ground            |

C181 (GY)

12B637

Fuel Injector 1 (9F533)



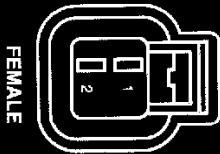
FEMALE

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 555 (TN)    | Fuel Injector 1, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C182** (GY)

**12B637**

Fuel Injector 2 (9F5593)

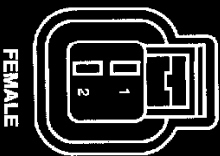


| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 556 (WH)    | Fuel injector 2, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C183** (GY)

**12B637**

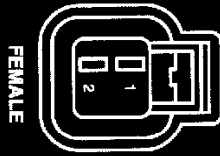
Fuel Injector 3 (9F5593)



| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 557 (BN/YE) | Fuel injector 3, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C184** (GY)**12B637**

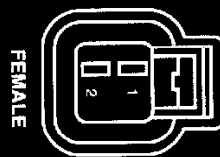
Fuel injector 4 (9F593)



| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 556 (BN/LB) | Fuel injector 4, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C185** (GY)**12B637**

Fuel injector 5 (9F593)

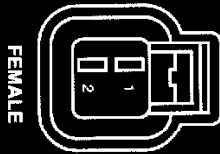


| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 556 (TN/BK) | Fuel injector 5, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C186** (GY)

**12B637**

Fuel injector 6 (9F593)

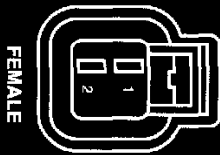


| Pin | Circuit    | Circuit function                |
|-----|------------|---------------------------------|
| 1   | 560 (LGOG) | Fuel injector 6, control        |
| 2   | 391 (RDYE) | PCM power relay, switched power |

**C187** (GY)

**12B637**

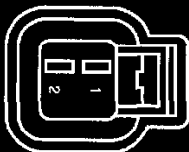
Fuel injector 7 (9F593)



| Pin | Circuit    | Circuit function                |
|-----|------------|---------------------------------|
| 1   | 561 (TMRD) | Fuel injector 7, control        |
| 2   | 391 (RDYE) | PCM power relay, switched power |

**C188** (GY)**12B637**

Fuel Injector 8 (9F5S93)



FEMALE

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 562 (LB)    | Fuel Injector 8, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C191** (BK)**12B637**Intake Manifold  
Tuning Valve  
(IMTV)

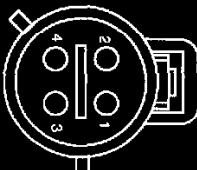
FEMALE

| Pin | Circuit      | Circuit function                             |
|-----|--------------|----------------------------------------------|
| 1   | 361 (RD)     | PCM power relay, switched power              |
| 2   | 570 (BK/WH)  | Ground                                       |
| 3   | 1022 (DB/YE) | Intake Manifold Tuning valve (IMTV), control |
| 4   | -            | not used                                     |



**C192** (BK)

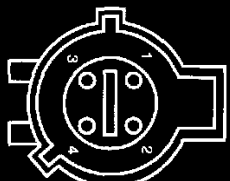
12B637



MALE

**C194** (GY)

12A581



FEMALE

(1) 331 (PK/YE)  
(2) 439 (TN/LG)  
(3) 307 (BK/YE)  
(4) 191 (LG/BK)

**C194** (GY)

12B637

Ignition transformer  
capacitor 2 (18801)



FEMALE

| Pin | Circuit    | Circuit Function                                       |
|-----|------------|--------------------------------------------------------|
| 1   | 16 (RD/LG) | Voltage supplied in Start and Run (overload protected) |

**C196** (BK)  
**12A581**  
Daytime  
running lamps  
resistor



**FEMALE**

| Pin | Circuit    | Circuit function                                                          |
|-----|------------|---------------------------------------------------------------------------|
| 1   | 471 (OGLG) | Daytime Running Lamps resistor, to<br>Daytime Running Lamps (DRL) relay 3 |
| 2   | 554 (YEFK) | Voltage supplied at all times (overload protected)                        |

**C197a**  
**14B060**  
**14300**  
Starter motor (11002)



| Pin | Circuit    | Circuit function                              |
|-----|------------|-----------------------------------------------|
| 1   | 113 (YELB) | Starter relay (11450), switched power, output |

C197b

14B060

14300

Starter motor (11002)



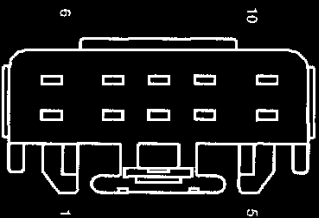
| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

C202a

(GY)

14401

Multifunction switch

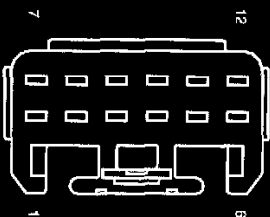


| Pin | Circuit     | Circuit function                                    |
|-----|-------------|-----------------------------------------------------|
| 1   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps   |
| 2   | 44 (LB)     | Indicator flasher relay (13350), turn signal output |
| 3   | 385 (WH/RD) | Indicator flasher relay (13350), hazard, output     |
| 4   | -           | not used                                            |
| 5   | -           | not used                                            |
| 6   | 196 (DB/OG) | Voltage supplied at all times (overload protected)  |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                       |
| 8   | 15 (RD/YE)  | Power, Hot with Headlamps on                        |
| 9   | 13 (RD/BK)  | Power, Hot with Low Beams on                        |
| 10  | -           | not used                                            |

**C202b** (GY)

**14401**

Multifunction switch



| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 63 (RD)    | Front wiper switch circuit A  |
| 2   | 56 (DB/OG) | Front wiper switch circuit C  |
| 3   | 58 (WH)    | Front wiper switch circuit B  |
| 4   | 61 (YE/RD) | Front wiper switch circuit H  |
| 5   | 589 (OG)   | Front washer switch circuit W |
| 6   | 57 (BK)    | Ground                        |
| 7   | 2 (WH/LB)  | Turn lamps, feed, right front |
| 8   | 5 (OG/LB)  | Turn lamps, feed, right rear  |
| 9   | 9 (LG/OG)  | Turn lamps, feed, left rear   |
| 10  | 3 (LG/WH)  | Turn lamps, feed, left front  |
| 11  | -          | not used                      |
| 12  | -          | not used                      |

**C203** (BK)

**14401**

Power sliding rear window switch

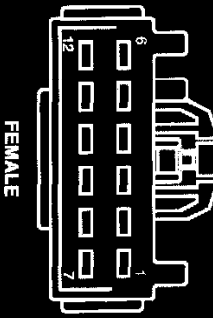


| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 405 (VT/LB) | Rear window adjust switch to window motor |
| 2   | 400 (LB/BK) | Accessory delay relay, switched output    |
| 3   | 57 (BK)     | Ground                                    |
| 4   | 57 (BK)     | Ground                                    |
| 5   | 19 (LB/RT)  | Instrument illumination, feed             |
| 6   | 57 (BK)     | Ground                                    |
| 7   | 404 (VT/LG) | Rear window adjust switch to window motor |

**C205a** (GY)

**14401**

Main light switch  
(11654)



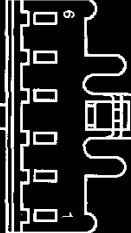
FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | -            | not used                                           |
| 2   | 14 (BN)      | Power, exterior lamps                              |
| 3   | -            | not used                                           |
| 4   | -            | not used                                           |
| 5   | 275 (YE)     | Fog lamp relay, feed                               |
| 6   | 57 (BK)      | Ground                                             |
| 7   | 1399 (DB/WH) | Voltage supplied with autolamps on                 |
| 8   | 196 (DB/OG)  | Voltage supplied at all times (overload protected) |
| 9   | 16 (RD/YE)   | Power, Hot with Headlamps on                       |
| 10  | 195 (TN/W-H) | Voltage supplied at all times (overload protected) |
| 11  | -            | not used                                           |
| 12  | 14 (BN)      | Power, exterior lamps                              |

**C205b** (BK)

**14401**

Main light switch  
(11654)

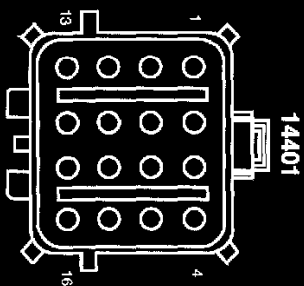


FEMALE

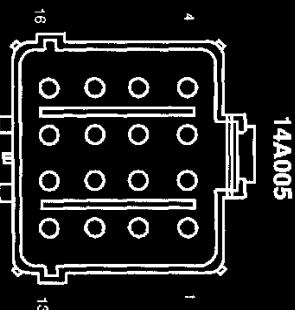
| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 19 (LB/RD)  | Instrument illumination, feed |
| 2   | 402 (OG/LG) | Interior lamps control        |
| 3   | -           | not used                      |
| 4   | 57 (BK)     | Ground                        |
| 5   | -           | not used                      |
| 6   | 14 (BN)     | Power, Exterior lamps         |

**C210** (BK)

\* w/power sliding rear window

**MALE**

- |      |              |
|------|--------------|
| (1)  | 802 (OG/RD)  |
| (2)  | 803 (BN/PK)  |
| (3)  | 85 (BN/LB)   |
| (4)  | -            |
| (5)  | 811 (DG/OG)  |
| (6)  | 805 (WH/LG)  |
| (7)  | -            |
| (8)  | 2 (WH/LB)    |
| (9)  | -            |
| (10) | *405 (VT/LB) |
| (11) | -            |
| (12) | -            |
| (13) | -            |
| (14) | *404 (VT/LG) |
| (15) | -            |
| (16) | -            |

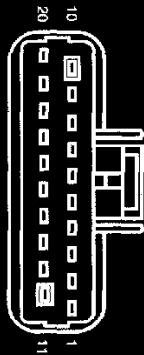
**FEMALE**

- |      |              |
|------|--------------|
| (1)  | 802 (OG/RD)  |
| (2)  | 803 (BN/PK)  |
| (3)  | 85 (BN/LB)   |
| (4)  | -            |
| (5)  | 811 (DG/OG)  |
| (6)  | 805 (WH/LG)  |
| (7)  | -            |
| (8)  | 2 (WH/LB)    |
| (9)  | -            |
| (10) | *405 (VT/LB) |
| (11) | -            |
| (12) | -            |
| (13) | -            |
| (14) | *404 (VT/LG) |
| (15) | -            |
| (16) | -            |

**C211** (BK)\* with auxiliary fuel tank  
\*\* with rear parking aid**14401****MALE****14405****FEMALE**

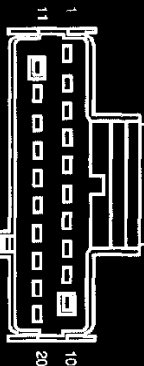
- |      |                |
|------|----------------|
| (1)  | 43 (DB)        |
| (2)  | 14 (BN)        |
| (3)  | 53 (BK/LB)     |
| (4)  | *786 (RD)      |
| (5)  | 29 (YE/WH)     |
| (6)  | 511 (LG)       |
| (7)  | -              |
| (8)  | *789 (BN/WH)   |
| (9)  | 396 (BK/OG)    |
| (10) | 787 (PK/BK)    |
| (11) | 43 (DB)        |
| (12) | *675 (YE/LB)   |
| (13) | **1439 (BN/PK) |
| (14) | -              |
| (15) | **1440 (DG/YE) |
| (16) | -              |

- |     |                |
|-----|----------------|
| (1) | **1441 (WH/LG) |
| (2) | -              |
| (3) | **1442 (DG/WH) |
| (4) | -              |
| (5) | **1443 (WH/LB) |
| (6) | -              |
| (7) | **1444 (DR/YE) |
| (8) | 962 (BN/WH)    |

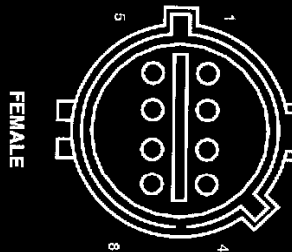
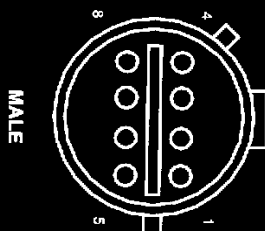
**C213** (GN)**14A005****FEMALE**

- (1) 162 (LG/RD)
- (2) 801 (TN/YE)
- (3) 53 (BK/LB)
- (4) 511 (LG)
- (5) \*3 (LG/WH)
- (6) 800 (GY/LB)
- (7) \*\*759 (LG/YE)
- (8) \*\*760 (PK/LB)
- (9) -
- (10) 962 (BR/WH)

\* with power mirrors  
 \*\* without FKE  
 \*\*\* only with FKE

**14401****MALE**

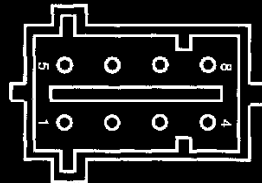
- (11) 813 (LB/WH)
- (12) \*\*\*1 (DB)
- (13) -
- (14) -
- (15) \*\*\*\*306 (PK/WH)
- (16) \*\*\*195 (TN/WH)
- (17) 804 (OG/LG)
- (18) \*\*\*104 (LB)
- (19) -
- (20) \*\*\*693 (OG)

**C214** (GY)**14401****FEMALE****15525****MALE**

- (1) 763 (OG/WH)
- (2) 764 (BN/WH)
- (3) 771 (VT/YE)
- (4) 3659 (BK/PK)
- (5) 781 (OG/LB)
- (6) 770 (WH)
- (7) 976 (OG)
- (8) 782 (BN/WH)

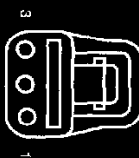
**C218a** (GY)**14401**Air bag sliding  
contact (14A664)

\* w/ steering wheel controls



FEMALE

| Pin | Circuit       | Circuit function                                             |
|-----|---------------|--------------------------------------------------------------|
| 1   | 158 (BK/PK)   | Key warning switch (11A127), input                           |
| 2   | 133 (BK)      | Speed control switch return                                  |
| 3   | 1 (DB)        | Horn relay, control                                          |
| 4   | *595 (LB/PD)  | Auxiliary audio controls, steering wheel                     |
| 5   | 57 (BK)       | Ground                                                       |
| 6   | 19 (LB/PD)    | Instrument illumination, feed                                |
| 7   | 151 (LB/BK)   | Speed control switch, input                                  |
| 8   | *1070 (BN/LB) | Audio/climate control switch, Climate Control System, signal |

**C218b** (BK)**14401**Air bag sliding  
contact (14A664)

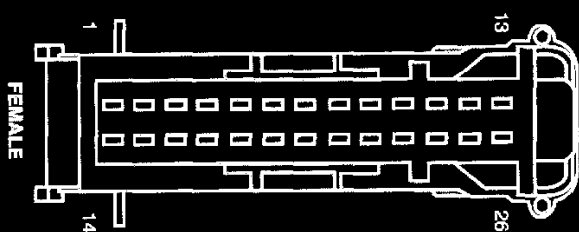
FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 615 (GY/WH) | Driver air bag, return        |
| 2   | -           | not used                      |
| 3   | 614 (GY/GG) | Driver air bag, feed, monitor |



**C220a** (BK)**14401**

Instrument Cluster



\*\*message center

\*\*w/compass

\*\*\*dual tanks

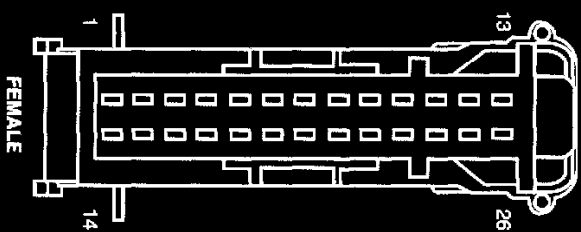
| Pin | Circuit        | Circuit function                                       |
|-----|----------------|--------------------------------------------------------|
| 1   | 3 (LG/WH)      | Turn lamps, feed, left front                           |
| 2   | 12 (LG/BK)     | Power, hot with high beams on                          |
| 3   | 2 (WH/LB)      | Turn lamps, feed, right front                          |
| 4   | -              | not used                                               |
| 5   | ***789 (BN/WH) | Fuel tank selector valve +/-                           |
| 6   | 1083 (LB/PK)   | Air bag, lone driver                                   |
| 7   | -              | not used                                               |
| 8   | -              | not used                                               |
| 9   | -              | not used                                               |
| 10  | 57 (BK)        | Ground                                                 |
| 11  | -              | not used                                               |
| 12  | 19 (LB/RD)     | Instrument illumination, feed                          |
| 13  | 640 (RD/YE)    | Voltage supplied in Start and Run (overload protected) |

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 14  | 608 (BK/YE)   | Air bag indicator, control                         |
| 15  | 904 (LG/RD)   | Generator/Battery indicator, control               |
| 16  | -             | not used                                           |
| 17  | -             | not used                                           |
| 18  | **703 (WH/OG) | Compass data -                                     |
| 19  | **702 (WH/BK) | Compass data +                                     |
| 20  | *1411 (GY/OG) | Message center switch input                        |
| 21  | *143 (LB/YE)  | Message center switch, power                       |
| 22  | 1002 (BK/PK)  | Voltage in Run or Accessory (overload protected)   |
| 23  | -             | not used                                           |
| 24  | 156 (BK/PK)   | Key warning switch (11A127), input                 |
| 25  | 54 (LG/YE)    | Battery saver relay, switched output               |
| 26  | 705 (LG/OG)   | Voltage supplied at all times (overload protected) |

**C220b (BL)****14401**

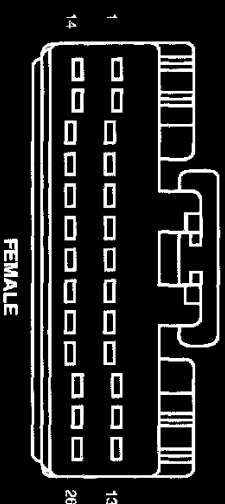
Instrument Cluster

\* w/ RKE

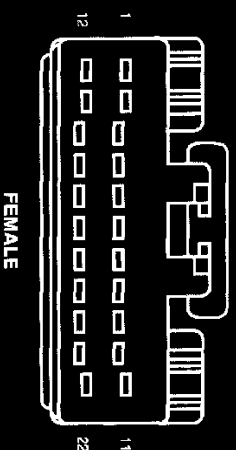


| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 531 (DG/YE) | Brake fluid level switch (2L414), signal           |
| 2   | -           | not used                                           |
| 3   | 85 (BN/LB)  | Safety belt buckle switch (10B924), input          |
| 4   | 1332 (LB)   | Accessory delay relay, control                     |
| 5   | -           | not used                                           |
| 6   | 1909 (BK)   | High speed CAN -                                   |
| 7   | 1908 (WH)   | High speed CAN +                                   |
| 8   | 386 (BK/OG) | Fuel sender, return                                |
| 9   | 675 (YE/LB) | Reference voltage                                  |
| 10  | 29 (YE/WH)  | Fuel pump/fuel gauge, signal                       |
| 11  | 693 (OG)    | UBP Diagnostics                                    |
| 12  | 676 (PK/OG) | Ground                                             |
| 13  | 785 (BK/LG) | Voltage supplied at all times (overload protected) |

| Pin | Circuit      | Circuit function                                               |
|-----|--------------|----------------------------------------------------------------|
| 14  | 512 (TN/LG)  | Brake fluid level switch (2L414), return                       |
| 15  | 1308 (BN/OG) | Engine oil pressure indicator, control                         |
| 16  | -            | not used                                                       |
| 17  | 142 (LB/RD)  | Air filter sensor signal, input - Diesel only                  |
| 18  | 162 (LG/RD)  | Parking brake switch, input                                    |
| 19  | 3049 (BK/LG) | Voltage supplied at all times (overload protected)             |
| 20  | -            | not used                                                       |
| 21  | 210 (LB)     | Four-wheel drive High indicator, control                       |
| 22  | 975 (BN/YE)  | Four-wheel drive Low indicator, control                        |
| 23  | 760 (PK/LB)  | * Door ajar switch, right rear, signal                         |
| 24  | 759 (LG/YE)  | * Door ajar switch, right front, right rear, left rear, signal |
| 25  | 402 (OG/LG)  | * Door ajar switch, left rear, signal                          |
| 26  | 53 (BK/LB)   | Interior lamps control                                         |

**C228a** (GV)**14401**Electronic Automatic  
Temperature Control  
(EATC) module  
(19980)

| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | -            | not used                                                     |
| 2   | 676 (PK/OG)  | Ground                                                       |
| 3   | 752 (YE/RD)  | Blower motor speed controller, signal return                 |
| 4   | 436 (RD/LG)  | Air temperature door variable resistor +                     |
| 5   | 1070 (BN/LB) | Audio/climate control switch, Climate Control System, signal |
| 6   | -            | not used                                                     |
| 7   | 3061 (LB/OG) | Ambient air temperature sensor (19E702), signal              |
| 8   | -            | not used                                                     |
| 9   | 1106 (LG/WH) | Remote solenoid assembly, common                             |
| 10  | 261 (OG/BK)  | Blower motor, High                                           |
| 11  | 1111 (VT)    | Remote solenoid #5, control                                  |
| 12  | 1110 (LG/VT) | Remote solenoid #4, control                                  |
| 13  | 1107 (WH)    | Remote solenoid #1, control                                  |
| 14  | 19 (LB/RD)   | Instrument illumination, feed                                |
| 15  | -            | not used                                                     |
| 16  | 754 (LG/WH)  | Blower motor speed controller, command                       |
| 17  | -            | not used                                                     |
| 18  | -            | not used                                                     |
| 19  | 790 (WH/OG)  | In-vehicle temperature sensor (19C734) +                     |
| 20  | 217 (DB/OG)  | Temperature blend door actuator, control, signal             |
| 21  | 437 (YE/LG)  | Blend door actuator, position sense, monitor                 |
| 22  | -            | not used                                                     |
| 23  | 399 (BN/YE)  | Blower motor relay, feed                                     |
| 24  | -            | not used                                                     |
| 25  | 1109 (OG/BK) | Remote solenoid #3, control                                  |
| 26  | 1108 (TN/WH) | Remote solenoid #2, control                                  |

**C228b** (GV)**14401**Electronic Automatic  
Temperature Control  
(EATC) module  
(19980)

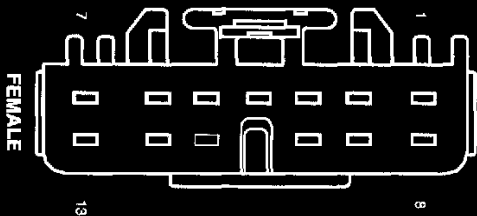
| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | -           | not used                                           |
| 2   | -           | not used                                           |
| 3   | 693 (OG)    | UBP Diagnostics                                    |
| 4   | -           | not used                                           |
| 5   | 470 (PK/BK) | Sensor signal return                               |
| 6   | 438 (RD/WH) | Air temperature door variable resistor -           |
| 7   | -           | not used                                           |
| 8   | -           | not used                                           |
| 9   | -           | not used                                           |
| 10  | -           | not used                                           |
| 11  | 22 (LB/BK)  | Voltage supplied at all times (overload protected) |
| 12  | -           | not used                                           |
| 13  | -           | not used                                           |
| 14  | -           | not used                                           |
| 15  | -           | not used                                           |
| 16  | -           | not used                                           |
| 17  | -           | not used                                           |
| 18  | 348 (VT)    | A/C demand signal                                  |
| 19  | 250 (OG)    | Blend door actuator -                              |
| 20  | 249 (DB/LG) | Blend door actuator +                              |
| 21  | -           | not used                                           |
| 22  | 296 (WH/VT) | Voltage in Run (overload protected)                |

**C233** (GY)  
**14401**  
In-vehicle  
temperature sensor  
(19C734)



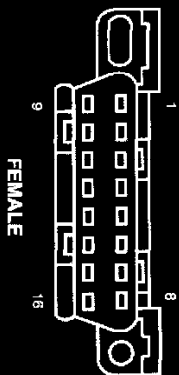
| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 790 (WH/OG) | In-vehicle temperature sensor (19C734) + |
| 2   | -           | not used                                 |
| 3   | 470 (PK/BK) | Sensor signal return                     |

**C250** (GY)  
**14401**  
Ignition Switch



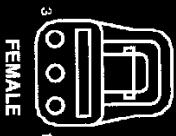
| Pin | Circuit      | Circuit function                                          |
|-----|--------------|-----------------------------------------------------------|
| 1   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected)    |
| 2   | 325 (DB/OG)  | Voltage supplied at all times (overload protected)        |
| 3   | 964 (DB/LG)  | Voltage supplied in Accessory or Run (overload protected) |
| 4   | -            | not used                                                  |
| 5   | 1522 (DG)    | Voltage supplied in Start (overload protected)            |
| 6   | -            | not used                                                  |
| 7   | 37 (YE)      | Voltage supplied at all times (overload protected)        |
| 8   | 687 (GY/YE)  | Voltage supplied in Run (overload protected)              |
| 9   | 1050 (LG/VJ) | Voltage supplied at all times (overload protected)        |
| 10  | -            | not used                                                  |
| 11  | -            | not used                                                  |
| 12  | 37 (YE)      | Voltage supplied at all times (overload protected)        |
| 13  | 1040 (RD/BK) | Voltage supplied in Run (overload protected)              |

**C251** (BK)  
**14401**  
Data Link Connector  
(DLC) (14489)



| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | -           | not used                                           |
| 2   | -           | not used                                           |
| 3   | 693 (OG)    | UBP Diagnostics                                    |
| 4   | 57 (BK)     | Ground                                             |
| 5   | 570 (BK/WH) | Ground                                             |
| 6   | 1908 (WH)   | High speed CAN +                                   |
| 7   | 70 (LB/WH)  | ISO Bus                                            |
| 8   | -           | not used                                           |
| 9   | -           | not used                                           |
| 10  | -           | not used                                           |
| 11  | -           | not used                                           |
| 12  | -           | not used                                           |
| 13  | 107 (VT)    | Flash EE prom module programming signal (FEPS)     |
| 14  | 1909 (BK)   | High speed CAN -                                   |
| 15  | -           | not used                                           |
| 16  | 40 (LB/WH)  | Voltage supplied at all times (overload protected) |

**C256** (BK)  
**14401**  
Passenger air bag  
module (15044A74)



| Pin | Circuit     | Circuit function                 |
|-----|-------------|----------------------------------|
| 1   | 616 (PK/BK) | Passenger air bag, return        |
| 2   | -           | not used                         |
| 3   | 607 (LB/OG) | Passenger air bag, feed, monitor |

| Pin | Circuit | Circuit function                                   |
|-----|---------|----------------------------------------------------|
| 30  | —       | Voltage supplied at all times (overload protected) |
| 85  | —       | Voltage in Run (overload protected)                |
| 86  | —       | Ground                                             |
| 87  | —       | Voltage supplied at all times (overload protected) |
| 87A | —       | not used                                           |

The diagram shows a top-down view of a five-pin female terminal block. The pins are arranged in a row. From left to right, they are labeled: 86, 87A, 87, 30, and 85. Each pin is represented by a rectangular symbol with a small circle at one end.

**FEMALE**

Uplifter  
relay

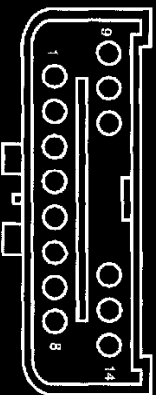
**C258**

**14401**

**C264** (BK)

Marker lamps  
\*\*Pool opening panel  
\*\*\*Electrochromatic mirror

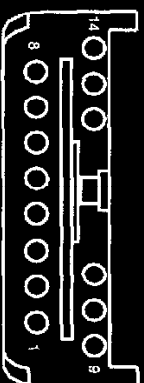
**14401**



**MALE**

- |                    |                     |
|--------------------|---------------------|
| (1) -              | (8) **S3 (BK/LB)    |
| (2) ***676 (PK/OG) | (9) **19 (LB/RD)    |
| (3) -              | (10) ***640 (RD/YE) |
| (4) *14 (BN)       | (11) 54 (LG/YE)     |
| (5) 57 (BK)        | (12) ***140 (BK/PK) |
| (6) -              | (13) ***703 (WH/OG) |
| (7) **400 (LB/BK)  | (14) ***702 (WH/BK) |

**17C712/15A404**



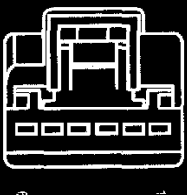
**FEMALE**

- |                    |                     |
|--------------------|---------------------|
| (1) not used       | (8) **S3 (BK/LB)    |
| (2) ***676 (PK/OG) | (9) **19 (LB/RD)    |
| (3) not used       | (10) ***640 (RD/YE) |
| (4) *14 (BN)       | (11) 54 (LG/YE)     |
| (5) 57 (BK)        | (12) ***140 (BK/PK) |
| (6) not used       | (13) ***703 (WH/OG) |
| (7) **400 (LB/BK)  | (14) ***702 (WH/BK) |

**C265** (GY)

**14401**

Message Center Switch



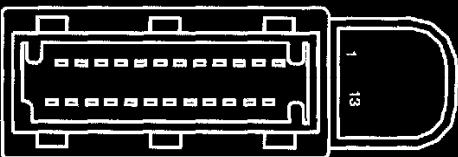
**FEMALE**

| Pin | Circuit      | Circuit function              |
|-----|--------------|-------------------------------|
| 1   | 19 (LB/RD)   | Instrument illumination, feed |
| 2   | 143 (LB/YE)  | Message center switch, power  |
| 3   | 1411 (GY/OG) | Message center switch input   |
| 4   | 57 (BK)      | Ground                        |
| 5   | -            | not used                      |
| 6   | -            | not used                      |

**C270a** (BK)

**14401**

Central Junction  
Box (CJB)  
(14A087)



12 24  
FEMALE

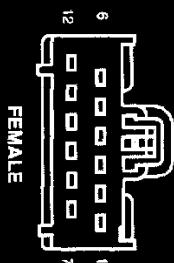
| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 54 (LG/YE)   | Battery saver relay, switched output                   |
| 2   | 1000 (RD/BK) | Voltage supplied in Start (overload protected)         |
| 3   | 22 (LB/BK)   | Voltage supplied at all times (overload protected)     |
| 4   | -            | not used                                               |
| 5   | 298 (VT/OG)  | Voltage in Run (overload protected)                    |
| 6   | -            | not used                                               |
| 7   | 1306 (PK/WH) | Voltage supplied at all times (overload protected)     |
| 8   | 640 (RD/YE)  | Voltage supplied in Start and Run (overload protected) |
| 9   | -            | not used                                               |
| 10  | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected)       |
| 11  | 57 (BK)      | Ground                                                 |
| 12  | 295 (LB/PK)  | Voltage in Run (overload protected)                    |

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 13  | 12 (LG/BK)  | Power, Hot with High Beams on                      |
| 14  | 1332 (LB)   | Accessory delay relay, control                     |
| 15  | 705 (LG/OG) | Voltage supplied at all times (overload protected) |
| 16  | 294 (WH/LB) | Voltage in Run (overload protected)                |
| 17  | 275 (YE)    | Fog lamp relay, control                            |
| 18  | 609 (OG/YE) | Voltage in Run (overload protected)                |
| 19  | 1 (DB)      | Horn relay, control                                |
| 20  | 296 (WH/VT) | Voltage in Run (overload protected)                |
| 21  | 295 (LB/PK) | Voltage in Run (overload protected)                |
| 22  | 238 (DG/YE) | Fuel pump relay, switched power, output            |
| 23  | 194 (PK)    | Accessory delay relay, switched output             |
| 24  | -           | not used                                           |



**C270b** (GY)

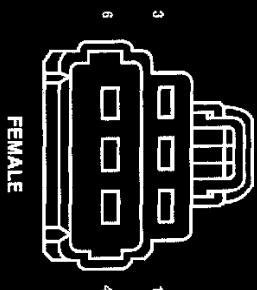
**14401**

Central Junction  
Box (CJB)  
(14A067)


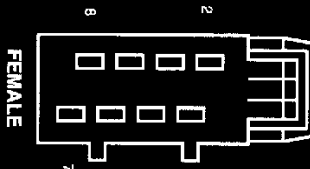
| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 1792 (PK)   | Voltage supplied at all times (overload protected) |
| 2   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |
| 3   | -           | not used                                           |
| 4   | -           | not used                                           |
| 5   | 14 (BN)     | Power, Exterior lamps                              |
| 6   | 785 (BK/LG) | Voltage supplied at all times (overload protected) |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                      |
| 8   | 1522 (DG)   | Voltage supplied in Start (overload protected)     |
| 9   | 12 (LG/BK)  | Power, Hot with High Beams on                      |
| 10  | 195 (TN/WH) | Voltage supplied at all times (overload protected) |
| 11  | -           | not used                                           |
| 12  | 196 (DB/OG) | Voltage supplied at all times (overload protected) |

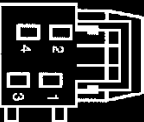
**C270c** (BK)

**14401**

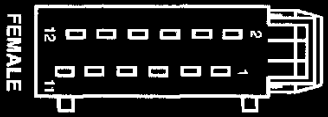
Central Junction  
Box (CJB)  
(14A067)


| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 1040 (RD/BK) | Voltage supplied in Run (overload protected)               |
| 2   | 37 (YE)      | Voltage supplied at all times (overload protected)         |
| 3   | 1050 (LG/VT) | Voltage supplied at all times (overload protected)         |
| 4   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected)     |
| 5   | 687 (GY/YE)  | Voltage supplied in Run (overload protected)               |
| 6   | 964 (DB/LG)  | Voltage supplied in Accessory and Run (overload protected) |

| <b>C270d</b> (GV)                         |               |                                                    | * w/ Adjustable pedals                                                             |
|-------------------------------------------|---------------|----------------------------------------------------|------------------------------------------------------------------------------------|
| <b>14401</b>                              |               |                                                    |                                                                                    |
| Central Junction<br>Box (CJB)<br>(14A067) |               |                                                    |                                                                                    |
|                                           |               |                                                    |  |
|                                           |               |                                                    | <b>FEMALE</b>                                                                      |
| Pin                                       | Circuit       | Circuit function                                   |                                                                                    |
| 1                                         | 3049 (BK/LG)  | Voltage supplied at all times (overload protected) |                                                                                    |
| 2                                         | —             | not used                                           |                                                                                    |
| 3                                         | *1567 (RD/LB) | Voltage supplied at all times (overload protected) |                                                                                    |
| 4                                         | —             | not used                                           |                                                                                    |
| 5                                         | 797 (LG/VT)   | Voltage supplied at all times (overload protected) |                                                                                    |
| 6                                         | *400 (LB/BK)  | Accessory delay relay, switched output             |                                                                                    |
| 7                                         | 40 (LB/WH)    | Voltage supplied at all times (overload protected) |                                                                                    |
| 8                                         | 19 (LB/RD)    | Instrument illumination, feed                      |                                                                                    |

| <b>C270e</b> (BK)                                                                   |              |                                                    |
|-------------------------------------------------------------------------------------|--------------|----------------------------------------------------|
| <b>14401</b>                                                                        |              |                                                    |
| Central Junction<br>Box (CJB)<br>(14A067)                                           |              |                                                    |
|  |              |                                                    |
| <b>FEMALE</b>                                                                       |              |                                                    |
| Pin                                                                                 | Circuit      | Circuit function                                   |
| 1                                                                                   | 50 (RD)      | Voltage supplied at all times (overload protected) |
| 2                                                                                   | 1049 (BN/PK) | Voltage supplied at all times (overload protected) |
| 3                                                                                   | 116 (RD/BK)  | Voltage supplied at all times (overload protected) |
| 4                                                                                   | 325 (DB/OG)  | Voltage supplied at all times (overload protected) |

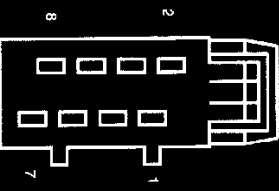
**C270f** (BK)  
**12A581**  
Central Junction  
Box (CJB)  
(14A067)



\*6,OL  
\*\*others  
\*\*\*under hood lamp

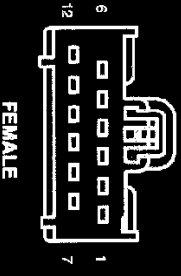
| Pin | Circuit       | Circuit function                               |
|-----|---------------|------------------------------------------------|
| 1   | -             | not used                                       |
| 2   | 161 (DG/OG)   | Headlamp, right (13008), (Low beam lamp feed)  |
| 3   | 160 (DB/WH)   | Headlamp, left (13008), (Low beam lamp feed)   |
| 4   | -             | not used                                       |
| 5   | *57 (BK)      | Ground                                         |
|     | **570 (BK/WH) |                                                |
| 6   | 33 (WH/PK)    | Voltage supplied in Start (overload protected) |
| 7   | ***54 (LG/YE) | Battery saver relay, switched output           |
| 8   | 324 (YE/LG)   | Reversing lamps relay, control                 |
| 9   | 329 (PK)      | Starter relay, control                         |
| 10  | 570 (BK/WH)   | Ground                                         |
|     | *926 (LB/OG)  | Fuel pump relay,control                        |
| 11  | 57 (BK)       | Ground                                         |
| 12  | 321 (GY/WH)   | A/C clutch relay, switched output              |

**C270g** (BK)  
**12A581**  
Central Junction  
Box (CJB)  
(14A067)



| Pin | Circuit     | Circuit function                                  |
|-----|-------------|---------------------------------------------------|
| 1   | 140 (BK/PK) | Reversing lamps relay, switched output            |
| 2   | 113 (YE/LB) | Starter relay (11450) switched power, output      |
| 3   | -           | not used                                          |
| 4   | 13 (RD/BK)  | Power, Hot with Low Beams on                      |
| 5   | -           | not used                                          |
| 6   | 49 (OG)     | Trailer tow battery charge relay, switched output |
| 7   | -           | not used                                          |
| 8   | -           | not used                                          |

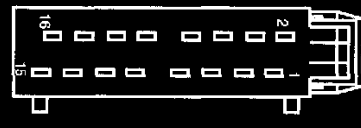
**C270h** (BK)  
**12A581**  
Central Junction  
Box (CJB)  
(14A057)



**FEMALE**

| Pin | Circuit     | Circuit function                               |
|-----|-------------|------------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                  |
| 2   | 478 (TN/OG) | Fog lamp relay, output, to fog lamps           |
| 3   | 14 (BN)     | Power, Exterior lamps                          |
| 4   | —           | not used                                       |
| 5   | 361 (RD)    | PCM power relay, switched power                |
| 6   | 391 (RD/YE) | PCM power relay, switched power                |
| 7   | 295 (LB/PK) | Voltage supplied in Run (overload protected)   |
| 8   | 33 (WH/PK)  | Voltage supplied in Start (overload protected) |
| 9   | 6 (YE/LG)   | Horn relay, switched power, output             |
| 10  | —           | not used                                       |
| 11  | —           | not used                                       |
| 12  | —           | not used                                       |

**C270j** (BK)  
**14A005**  
Central Junction  
Box (CJB)  
(14A057)



**FEMALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | —           | not used                                           |
| 2   | —           | not used                                           |
| 3   | 956 (OG/LG) | Voltage supplied at all times (overload protected) |
| 4   | —           | not used                                           |
| 5   | —           | not used                                           |
| 6   | —           | not used                                           |
| 7   | 59 (DG/YT)  | HTD mirror relay, switched output                  |
| 8   | —           | not used                                           |
| 9   | —           | not used                                           |
| 10  | 295 (LB/PK) | Voltage supplied in Run (overload protected)       |
| 11  | 194 (PK)    | Accessory delay relay, switched output             |
| 12  | 14 (BN)     | Power, Exterior lamps                              |
| 13  | —           | not used                                           |
| 14  | 295 (LB/PK) | Voltage supplied in Run (overload protected)       |
| 15  | 962 (BN/WH) | Trailer tow relay, parking lamp, switched output   |
| 16  | 54 (LG/YE)  | Battery saver relay, switched output               |

**C270k** (WH)  
**14A303**  
 Central Junction  
 Box (CJB)  
 (14A067)

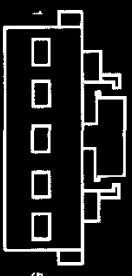
FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | -            | not used                                               |
| 2   | 1447 (RD)    | Voltage supplied at all times (overload protected)     |
| 3   | -            | not used                                               |
| 4   | 1717 (VT/OG) | Voltage supplied in Start and Run (overload protected) |
| 5   | 19 (LB/RD)   | Instrument illumination, feed                          |
| 6   | 1445 (RD/LG) | Voltage supplied at all times (overload protected)     |
| 7   | 1446 (RD/LB) | Voltage supplied at all times (overload protected)     |
| 8   | 1448 (OG/RD) | Voltage supplied at all times (overload protected)     |

**C270p**  
**12A581**  
 Central Junction  
 Box (CJB)  
 (14A067)

| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

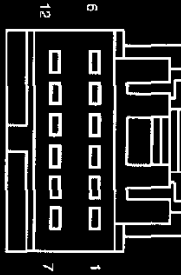
**C278** (TN)  
**14401**  
Brake pedal position switch (13480)



**FEMALE**

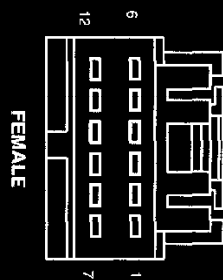
| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 676 (PK/OG) | Ground                                             |
| 2   | 810 (RD/LG) | Brake pedal position switch (13480), input         |
| 3   | 22 (LB/BK)  | Voltage supplied at all times (overload protected) |
| 4   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps  |
| 5   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |

**C281a** (BK)  
**14401**  
Four-wheel drive control module (14B466)

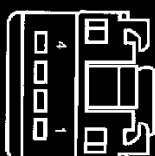


**FEMALE**

| Pin | Circuit      | Circuit function                                          |
|-----|--------------|-----------------------------------------------------------|
| 1   | 1306 (PK/WH) | Voltage supplied at all times (overload protected)        |
| 2   | 1306 (PK/WH) | Voltage supplied at all times (overload protected)        |
| 3   | 57 (BK)      | Ground                                                    |
| 4   | 810 (RD/LG)  | Brake pedal position switch (13480), input                |
| 5   | 640 (RD/YE)  | Voltage supplied in Start and Run (overload protected)    |
| 6   | 1002 (BK/PK) | Voltage supplied in Run or Accessory (overload protected) |
| 7   | 976 (OG)     | Power to encoder                                          |
| 8   | 3659 (BK/PK) | Encoder, Ground, return                                   |
| 9   | 771 (V7YE)   | Motor position 5                                          |
| 10  | 764 (BF/WH)  | Motor position 3                                          |
| 11  | 770 (W-I)    | Motor position 4                                          |
| 12  | 763 (OG/WH)  | Motor position 2                                          |

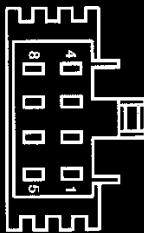
**C281b** (6V)**14401**Four-wheel  
drive control  
module  
(148466)

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 1   | 145 (GY/BK) | Electronic Shift On the Fly (ESOF) solenoid, 4X4, control |
| 2   | 780 (DB)    | Four-wheel drive switch, position signal                  |
| 3   | 679 (GY/BK) | Vehicle Speed Sensor (VSS), signal                        |
| 4   | 463 (RD/WH) | Four-wheel drive control module neutral switch sense      |
| 5   | 782 (BN/WH) | Transfer case low to high relay, control                  |
| 6   | 781 (OG/LB) | Transfer case high to low relay, control                  |
| 7   | 605 (RD)    | Electronic Shift On the Fly (ESOF) solenoid, 4X2, control |
| 8   | -           | not used                                                  |
| 9   | 465 (WH/LB) | Four-wheel drive switch, signal return                    |
| 10  | 70 (LB/WH)  | ISO Bus                                                   |
| 11  | 975 (BN/YE) | Four-wheel drive Low indicator, control                   |
| 12  | 210 (LB)    | Four-wheel drive High indicator, control                  |

**C284** (6K)**14401**Four-wheel  
drive  
switch

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 57 (BK)     | Ground                                   |
| 2   | 465 (WH/LB) | Four-wheel drive switch, signal return   |
| 3   | 780 (DB)    | Four-wheel drive switch, position signal |
| 4   | 19 (LB/RD)  | Instrument illumination, feed            |

|                  |                           |                         |                                                                                   |                                               |             |  |  |
|------------------|---------------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-------------|--|--|
| <b>C286</b> (BK) |                           |                         |  | <b>14401</b><br>Sunload<br>sensor<br>(13A018) | * with EATC |  |  |
|                  |                           |                         |                                                                                   |                                               |             |  |  |
| <b>Pin</b>       | <b>Circuit</b>            | <b>Circuit function</b> |                                                                                   |                                               |             |  |  |
| A                | *217 (DB/OG)              | Sunload sensor, signal  |                                                                                   |                                               |             |  |  |
| B                | 57 (BK)                   | Ground                  |                                                                                   |                                               |             |  |  |
| C                | *876 (PK/OG)<br>1104 (LB) | Sunload sensor, signal  |                                                                                   |                                               |             |  |  |

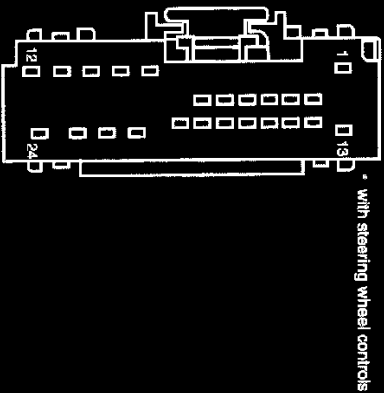
|                                                                                       |                |                                                 |                                   |
|---------------------------------------------------------------------------------------|----------------|-------------------------------------------------|-----------------------------------|
| <b>C289</b> (WH)                                                                      |                |                                                 | * with manual A/C<br>** with EATC |
| <b>14401</b>                                                                          |                |                                                 |                                   |
| Temperature blend door actuator (19E616)                                              |                |                                                 |                                   |
|  |                |                                                 |                                   |
| <b>FEMALE</b>                                                                         |                |                                                 |                                   |
| <b>Pin</b>                                                                            | <b>Circuit</b> | <b>Circuit function</b>                         |                                   |
| 1                                                                                     | **437 (YE/LG)  | Temperature blend door actuator control, signal |                                   |
| 2                                                                                     | -              | not used                                        |                                   |
| 3                                                                                     | ** -           | not used                                        |                                   |
| 4                                                                                     | *437 (YE/LG)   | Temperature blend door actuator control, signal |                                   |
| 5                                                                                     | **436 (RD/LG)  | Air temperature door variable resistor +        |                                   |
| 6                                                                                     | -              | not used                                        |                                   |
| 7                                                                                     | 438 (RD/WH)    | Air temperature door variable resistor -        |                                   |
| 8                                                                                     | **249 (DB/LG)  | Blend door actuator +                           |                                   |
| 9                                                                                     | *296 (WH/VT)   | Voltage in Run (overload protected)             |                                   |
| 10                                                                                    | **250 (OG)     | Blend door actuator -                           |                                   |
| 11                                                                                    | *57 (BK)       | Ground                                          |                                   |



**C290a** (GV)

**14401**

Radio (18808)

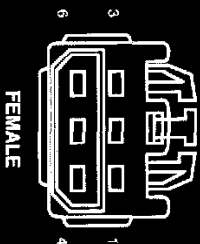


| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 797 (LG/VT)  | Voltage supplied at all times (overload protected) |
| 2   | *194 (PK)    | Accessory delay relay, switched output             |
| 3   | 19 (LB/RD)   | Instrument illumination, feed                      |
| 4   | 57 (BK)      | Ground                                             |
| 5   | -            | not used                                           |
| 6   | -            | not used                                           |
| 7   | -            | not used                                           |
| 8   | 804 (OG/LG)  | Speaker, left front (18808) +                      |
| 9   | 800 (GY/LB)  | Rear Integrated Control Panel (RICP) (19980) +     |
| 10  | 802 (OG/RD)  | Rear Integrated Control Panel (RICP) (19980) +     |
| 11  | 805 (WH/LG)  | Speaker, right front (18808) +                     |
| 12  | 811 (DG/OG)  | Speaker, right front (18808) -                     |
| 13  | 694 (BK/LG)  | Ground                                             |
| 14  | *679 (GY/BK) | Vehicle speed sensor (VSS), signal                 |
| 15  | 1000 (RD/BK) | Voltage supplied in Start (overload protected)     |
| 16  | -            | not used                                           |
| 17  | -            | not used                                           |
| 18  | *595 (LB/RD) | Auxiliary audio controls, steering wheel           |
| 19  | -            | not used                                           |
| 20  | -            | not used                                           |
| 21  | 813 (LB/WH)  | Speaker, left front (18808) -                      |
| 22  | 801 (TN/YE)  | Speaker, left rear (18808) -                       |
| 23  | 803 (BN/PK)  | Speaker, right rear (18808) -                      |
| 24  | -            | not used                                           |

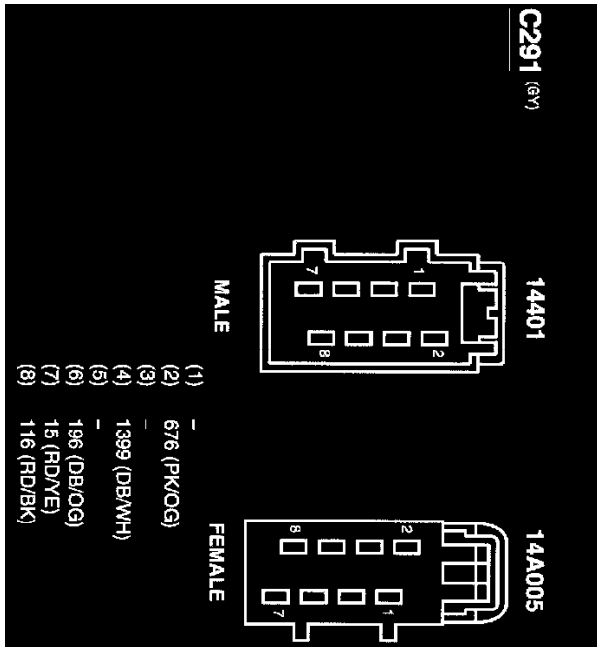
**C2701** (GV)

**14A005**

Central Junction  
Box (CJB)  
(14A007)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | -            | not used                                           |
| 2   | -            | not used                                           |
| 3   | 1153 (RD/BK) | Voltage supplied at all times (overload protected) |
| 4   | 51 (BK/WH)   | Voltage supplied at all times (overload protected) |
| 5   | 566 (DG)     | Voltage supplied at all times (overload protected) |
| 6   | 400 (LB/BK)  | Accessory delay relay, switched output             |



**C294a (8B)**

**14401**

Function:  
selector switch  
assembly, front

**FEMALE**

| Pin | Circuit     | Circuit function                    |
|-----|-------------|-------------------------------------|
| 1   | 296 (WH/YT) | Voltage In Run (overload protected) |
| 2   | 348 (VT)    | A/C demand signal                   |
| 3   | 399 (BN/YE) | Blower motor relay, control         |
| 4   | 57 (BK)     | Ground                              |

**C294b** (BK)

**14401**

Function selector switch assembly, front



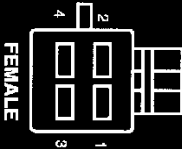
FEMALE

| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 19 (LB/RD) | Instrument illumination, feed |
| 2   | 57 (BK)    | Ground                        |

**C294c** (BK)

**14401**

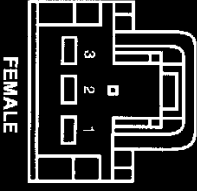
Function selector switch assembly



FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 57 (BK)     | Ground                                   |
| 2   | 261 (OG/BK) | Blower motor, to switch - High           |
| 3   | 752 (YE/RD) | Blower motor, speed control, low         |
| 4   | 764 (LG/WH) | Blower switch speed control, to resistor |

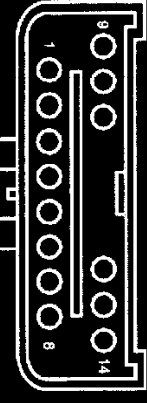
**C294d** (WH)  
**14401**  
Function  
selector switch  
assembly, front



FEMALE

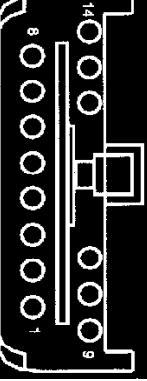
| Pin | Circuit     | Circuit function                                 |
|-----|-------------|--------------------------------------------------|
| 1   | 438 (FD/WH) | Air temperature door variable resistor -         |
| 2   | 437 (YE/LG) | Temperature blend door actuator, control, signal |
| 3   | 436 (RD/LG) | Air temperature door variable resistor +         |

**C300** (GY)  
**14401**



MALE

**15K867**  
**FEMALE**



|     |              |      |              |
|-----|--------------|------|--------------|
| (1) | 1441 (WH/LG) | (8)  | 1444 (DB/YE) |
| (2) | 1442 (DG/WH) | (9)  | 1443 (WH/LB) |
| (3) | 140 (BK/PK)  | (10) | 1436 (VT/OG) |
| (4) | 1435 (DG/VT) | (11) | 1440 (DG/YE) |
| (5) | 70 (LB/WH)   | (12) | 1439 (BN/PK) |
| (6) | 57 (BK)      | (13) | -            |
| (7) | 295 (LB/PK)  | (14) | -            |

**C301**  
(GY)

**14687**  
Power sliding rear  
window motor  
(14A464)



FEMALE

| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 404 (VT/LG) | Rear window adjust switch to window motor |
| 2   | 405 (VT/LB) | Rear window adjust switch to window motor |

**C312**  
(GY)

**14A005**



MALE

**14687**

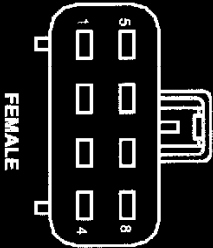


FEMALE

(1) 404 (VT/LG)

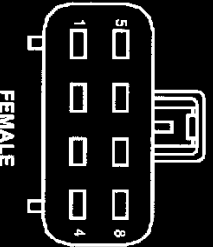
(2) 405 (VT/LB)

**C320 (BN)**  
**14B084**  
Seat heater  
switch, driver  
side



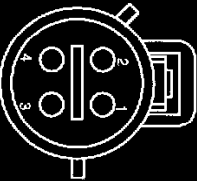
| Pin | Circuit      | Circuit function                              |
|-----|--------------|-----------------------------------------------|
| 1   | 1064 (YE/LB) | Seat cushion heater, left front, heater, feed |
| 2   | 1255 (WH/RD) | Heated seat relay, switched output            |
| 3   | -            | not used                                      |
| 4   | 57 (BK)      | Ground                                        |
| 5   | -            | not used                                      |
| 6   | -            | not used                                      |
| 7   | -            | not used                                      |
| 8   | -            | not used                                      |

**C321 (BN)**  
**14B084**  
Seat heater  
switch,  
passenger side



| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 1064 (YE/LB) | Seat cushion heater, right front, heater, feed |
| 2   | 1255 (WH/RD) | Heated seat relay, switched output             |
| 3   | -            | not used                                       |
| 4   | 57 (BK)      | Ground                                         |
| 5   | -            | not used                                       |
| 6   | -            | not used                                       |
| 7   | -            | not used                                       |
| 8   | -            | not used                                       |

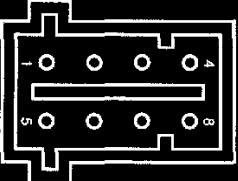
**C323** (GY)  
**14B084**  
Safety belt  
buckle switch  
(10B924)



**MALE**

| Pin | Circuit    | Circuit function                          |
|-----|------------|-------------------------------------------|
| 1   | -          | not used                                  |
| 2   | 85 (BN/LB) | Safety belt buckle switch (10B924), input |
| 3   | -          | not used                                  |
| 4   | 57 (BK)    | Ground                                    |

**C330** (BK)  
**14B084**  
Seat adjust  
switch  
passenger side  
front



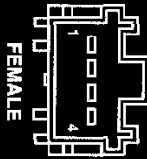
**MALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 989 (RD/LG) | Front height motor, Down                           |
| 2   | 51 (BK/WH)  | Voltage supplied at all times (overload protected) |
| 3   | 987 (RD/WH) | Fwd/Rwd motor, Rearward                            |
| 4   | 57 (BK)     | Ground                                             |
| 5   | 984 (YE/LB) | Rear height motor, Up                              |
| 6   | 988 (YE/LG) | Front height motor, Up                             |
| 7   | 985 (RD/LB) | Rear height motor, Down                            |
| 8   | 986 (YE/WH) | Fwd/Rwd motor, Forward                             |

**C334** (BK)

**14B084**

Seat cushion  
heater, right  
front



| Pin | Circuit      | Circuit function                                  |
|-----|--------------|---------------------------------------------------|
| 1   | 1066 (GY/LB) | Seat back heater, right<br>front, heater, feed    |
| 2   | -            | not used                                          |
| 3   | -            | not used                                          |
| 4   | 1064 (YE/LB) | Seat cushion heater, right<br>front, heater, feed |

**C335** (BK)

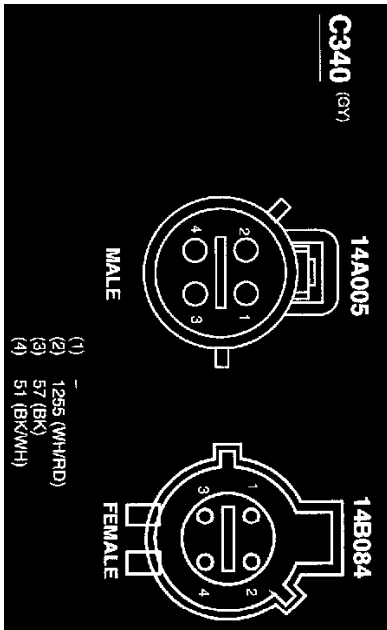
**14B084**

Seat back,  
heater, right  
front



| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 57 (BK)      | Ground                                         |
| 2   | 1066 (GY/LB) | Seat back heater, right<br>front, heater, feed |





**C350a** (GY)

**15525**

Transfer case assembly

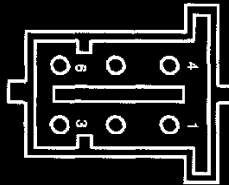
FEMALE

| Pin | Circuit      | Circuit function        |
|-----|--------------|-------------------------|
| 1   | 763 (CG/WH)  | Motor position 2        |
| 2   | 976 (OG)     | Power to encoder        |
| 3   | 764 (BN/WH)  | Motor position 3        |
| 4   | 3659 (BK/PK) | Encoder, ground, return |
| 5   | 771 (VT/YE)  | Motor position 5        |
| 6   | 770 (WH)     | Motor position 4        |

**C350b** (BK)**15525**Transfer  
case  
assembly

FEMALE

| Pin | Circuit  | Circuit function                |
|-----|----------|---------------------------------|
| 1   | 778 (OG) | Transfer case High to Low, feed |
| 2   | 777 (YE) | Transfer case Low to High, feed |

**C357** (BN)**14B084**Power seat  
motor  
assembly, left

MALE

| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 980 (YE/WH) | Fwd/Rwd motor, Forward   |
| 2   | 983 (RD/LG) | Rear height motor, Up    |
| 3   | 982 (YE/LG) | Rear height motor, Down  |
| 4   | 981 (RD/WH) | Fwd/Rwd motor, Forward   |
| 5   | 990 (YE/LB) | Front height motor, Down |
| 6   | 979 (RD/LB) | Front height motor, Up   |

**C359**  
**14B084**  
 Heated seat  
 relay, driver  
 side front

**FEMALE**

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1255 (WH/RD) | Heated seat relay, switched output                 |
| 2   | 57 (BK)      | Ground                                             |
| 3   | -            | not used                                           |
| 4   | 295 (LB/PK)  | Voltage supplied in Run (overload protected)       |
| 5   | 1153 (RD/BK) | Voltage supplied at all times (overload protected) |

**C360 (BK)**  
**14B084**  
 Seat adjust  
 switch, driver  
 side front  
 (14A70T)

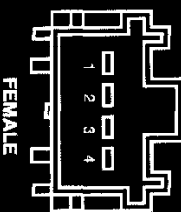
**MALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 990 (YE/LB) | Front height motor, Down                           |
| 2   | 983 (RD/LG) | Rear height motor, Up                              |
| 3   | 982 (YE/LG) | Rear height motor, Down                            |
| 4   | 566 (DG)    | Voltage supplied at all times (overload protected) |
| 5   | 979 (RD/LB) | Front height motor, Up                             |
| 6   | 981 (RD/WH) | Fwd/Rwd motor, Forward                             |
| 7   | 980 (YE/WH) | Fwd/Rwd motor, Rearward                            |
| 8   | 57 (BK)     | Ground                                             |

**C364** (BK)

**14B084**

Seat cushion  
heater, left  
front



**FEMALE**

| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 1066 (GY/LB) | Seat cushion heater,<br>left front, heater, feed |
| 2   | -            | not used                                         |
| 3   | -            | not used                                         |
| 4   | 1064 (YE/LB) | Seat back heater, left<br>front, heater, feed    |

**C365** (BK)

**14B084**

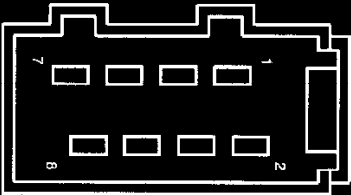
Seat back  
heater,  
left front



**FEMALE**

| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 57 (BK)      | Ground                                           |
| 2   | 1066 (GY/LB) | Seat cushion heater, left<br>front, heater, feed |

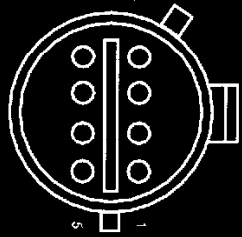
**C369** (TN)  
**14B084**  
Seat adjust  
switch, driver  
side front  
(14A701)



MALE

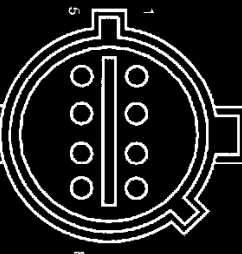
| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 57 (BK)     | Ground                                             |
| 2   | 979 (RD/LB) | Front height motor, Up                             |
| 3   | 980 (YEW/H) | Fwd/Rwd motor, Rearward                            |
| 4   | 982 (YE/LG) | Rear height motor, Down                            |
| 5   | 981 (RD/MH) | Fwd/Rwd motor, Forward                             |
| 6   | 983 (RD/LG) | Rear height motor, Up                              |
| 7   | 566 (DG)    | Voltage supplied at all times (overload protected) |
| 8   | 990 (YE/LB) | Front height motor, Down                           |

**C408** (GV)  
**13A409**



MALE

**14405**



FEMALE

(1) 5 (OG/LB)

(2) 9 (LG/OG)

(3) 140 (BK/PK)

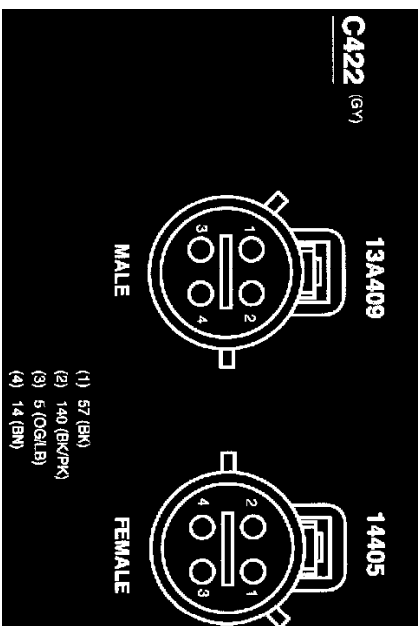
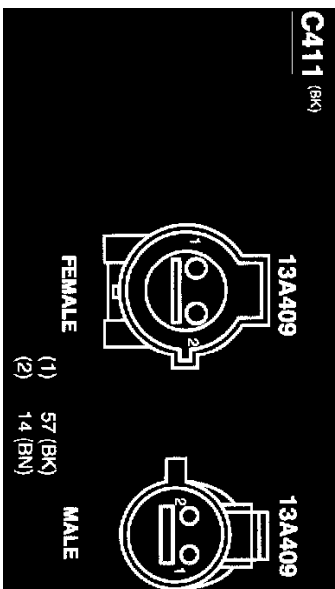
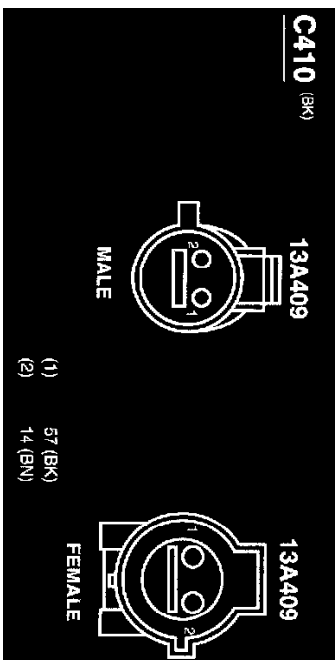
(4) 14 (BN)

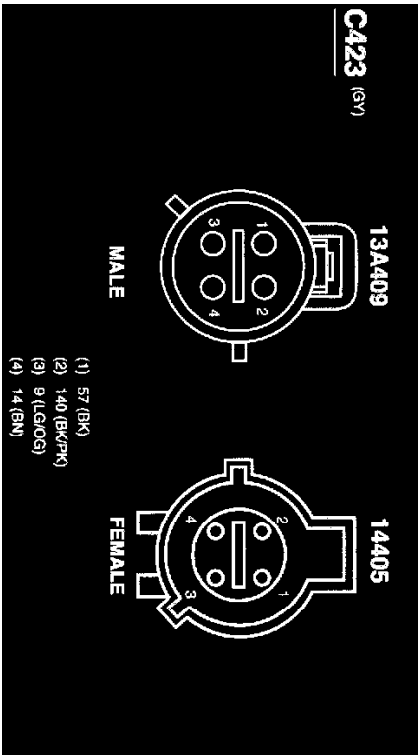
(5) 57 (BK)

(6) 511 (LG)

(7) -

(8) -





**C433** (BK)

**14405**

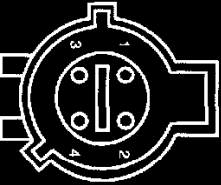
Fuel pump driver module (9H307)

Gasoline

**FEMALE**

| Pin | Circuit      | Circuit function                           |
|-----|--------------|--------------------------------------------|
| 1   | 2022 (BN/OG) | Fuel pump driver module return             |
| 2   | 866 (WH)     | Inertia fuel shut off switch ground        |
| 3   | 57 (BK)      | Ground                                     |
| 4   | 922 (WH/RO)  | Fuel pump driver module to fuel pump motor |
| 5   | 787 (PK/BK)  | Fuel pump, Power                           |
| 6   | 926 (LB/OG)  | Fuel pump driver module control signal     |

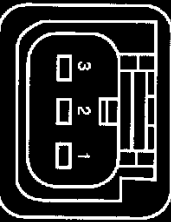
**C434** (BK)  
**14405**  
Fuel tank unit  
(9H307)



FEMALE

| Pin | Circuit     | Circuit function                   |
|-----|-------------|------------------------------------|
| 1   | 922 (WH/RO) | Sensor, Power                      |
| 2   | 29 (Y/EM/H) | Fuel sender (9H307), signal        |
| 3   | 866 (WH)    | Inertia fuel shutoff switch ground |
| 4   | 396 (BK/OG) | Fuel sender (9H307), return        |

**C435** (GY)  
**14405**  
Fuel tank pressure transducer sensor (9C052)



FEMALE

| Pin | Circuit       | Circuit function                                        |
|-----|---------------|---------------------------------------------------------|
| 1   | 30/74 (BK/OG) | Fuel tank pressure transducer sensor, voltage reference |
| 2   | 1703 (RD/LG)  | Signal return                                           |
| 3   | 791 (RD/PK)   | Fuel tank pressure transducer sensor (9C052), signal    |

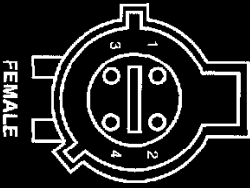


**C438** (BK)

**14405**

**13A409**

Rear marker  
lamp  
assembly



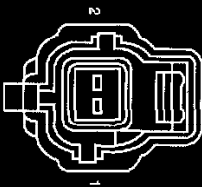
FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | —       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |
| 4   | —       | not used              |

**C450** (BK)

**14405**

EVAP  
canister vent  
control  
solenoid



FEMALE

| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 1683 (DG)  | Voltage supplied at all times (overload protected) |
| 2   | 91 (VT/WH) | EVAP canister vent control solenoid, control       |

**C451** (GN)  
**13A409**  
Reversing  
lamp, left  
(13411)



**FEMALE**

| Pin | Circuit     | Circuit function                       |
|-----|-------------|----------------------------------------|
| 1   | 57 (BK)     | Ground                                 |
| 2   | -           | not used                               |
| 3   | 140 (BK/PK) | Reversing lamps relay, switched output |

**C452** (WH)  
**13412**  
License plate  
lamp, left



**FEMALE**

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, exterior lamps |

**C455** (BK)**14405**Rear axle  
speed sensor  
(4B409)

| Pin | Circuit     | Circuit function                 |
|-----|-------------|----------------------------------|
| 1   | 519 (LG/BK) | Rear axle speed sensor (4B409) - |
| 2   | 523 (RD/PK) | Rear axle speed sensor (4B409) + |

**C461** (GN)**13A409**Reversing  
lamp, right  
(13A11)

| Pin | Circuit     | Circuit function                       |
|-----|-------------|----------------------------------------|
| 1   | 57 (BK)     | Ground                                 |
| 2   | -           | not used                               |
| 3   | 140 (BK/PK) | Reversing lamps relay, switched output |

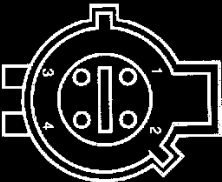
**C462** (WH)  
**13412**  
License  
plate lamp,  
right



**FEMALE**

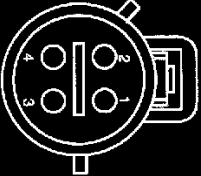
| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C465** (GY)  
**13412**  
License  
plate lamp,  
left



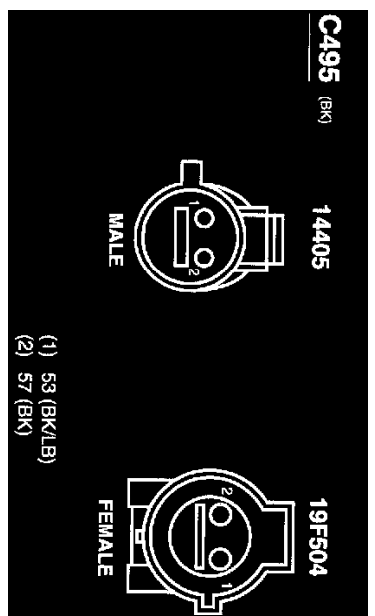
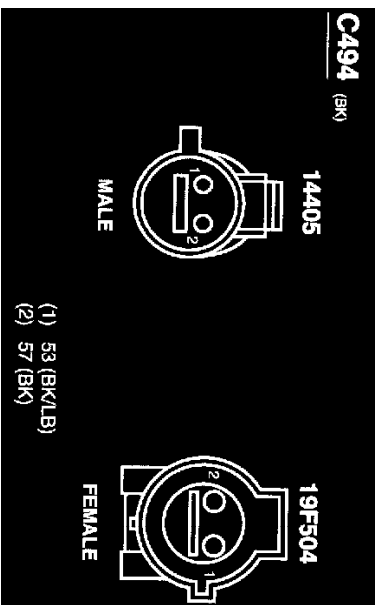
**FEMALE**

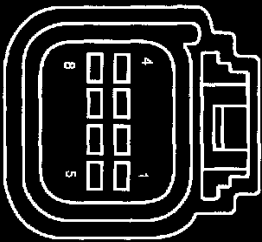
**13A409**  
License  
plate lamp,  
left

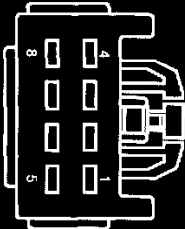


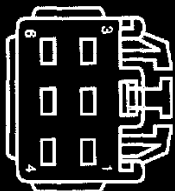
**MALE**

(1) 14 (BN)  
(2) -  
(3) 57 (BK)  
(4) -



| <b>C500</b> (BK)<br><b>14A631</b><br>Key pad<br>switch<br>assembly                 |              |                                   |
|------------------------------------------------------------------------------------|--------------|-----------------------------------|
|  |              |                                   |
| FEMALE                                                                             |              |                                   |
| Pin                                                                                | Circuit      | Circuit function                  |
| 1                                                                                  | 78 (LB/YE)   | Key pad switch, Circuit A, output |
| 2                                                                                  | 1013 (BN/LG) | Illumination                      |
| 3                                                                                  | 79 (LG/RD)   | Key pad switch, Circuit B, output |
| 4                                                                                  | -            | not used                          |
| 5                                                                                  | 57 (BK)      | Ground                            |
| 6                                                                                  | 124 (BN)     | Key pad switch, common            |
| 7                                                                                  | 121 (YE/BK)  | Key pad switch, Circuit C, output |
| 8                                                                                  | -            | not used                          |

| <b>C504a</b> (BU)<br><b>14A005</b><br>Master window<br>adjust switch<br>(14540)      |             |                                                    |
|--------------------------------------------------------------------------------------|-------------|----------------------------------------------------|
|  |             |                                                    |
| FEMALE                                                                               |             |                                                    |
| Pin                                                                                  | Circuit     | Circuit function                                   |
| 1                                                                                    | -           | not used                                           |
| 2                                                                                    | 57 (BK)     | Ground                                             |
| 3                                                                                    | 313 (WH/YE) | Window switch, feed, right front, Down             |
| 4                                                                                    | 314 (TN/LB) | Window switch, feed, right front, Up               |
| 5                                                                                    | -           | not used                                           |
| 6                                                                                    | 400 (LB/BK) | Accessory delay relay, switched output             |
| 7                                                                                    | 991 (TN/LB) | Master window adjust switch<br>(14529), feed, Down |
| 8                                                                                    | 992 (WH/BK) | Master window adjust switch<br>(14529), feed, Up   |

| <b>C504b</b> (GV)                                                                  |             |                                       |
|------------------------------------------------------------------------------------|-------------|---------------------------------------|
| <b>14A005</b>                                                                      |             |                                       |
| Master window<br>adjust switch<br>(14S40)                                          |             |                                       |
|  |             |                                       |
| <b>FEMALE</b>                                                                      |             |                                       |
| Pin                                                                                | Circuit     | Circuit function                      |
| 1                                                                                  | -           | not used                              |
| 2                                                                                  | 319 (YE/BK) | Window switch, feed, right rear, Down |
| 3                                                                                  | 320 (RD/BK) | Window switch, feed, right rear, Up   |
| 4                                                                                  | 193 (YE/LG) | Window lockout, switched output       |
| 5                                                                                  | 316 (YE/LB) | Window switch, feed, left rear, Up    |
| 6                                                                                  | 317 (GY/OG) | Window switch, feed, left rear, Down  |

**C505** (GN)

**14A005**

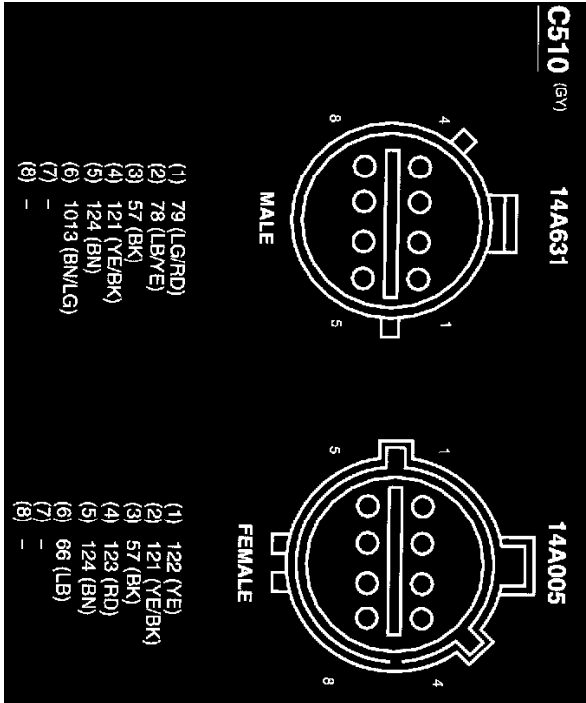
Door lock  
switch, driver  
side (14S63)

**FEMALE**

\* with remote keyless entry

\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 1   | 57 (BK)       | Ground                                             |
| 2   | -             | not used                                           |
|     | **57 (BK)     | Common                                             |
| 3   | *1210 (BK/WH) | Unlock Switch Circuit                              |
|     | **120 (PK/LG) | Unlock Switch Circuit                              |
| 4   | *57 (BK)      | Ground                                             |
|     | **116 (RD/BK) | Voltage supplied at all times (overload protected) |
| 5   | 194 (PK)      | Switch illumination                                |
| 6   | -             | not used                                           |
|     | *1211 (W-/RD) | Lock Switch Circuit                                |
| 7   | **119 (PK/YE) | Lock Switch Circuit                                |
|     | -             | not used                                           |
| 8   | **57 (BK)     | Ground                                             |



**C521** (GV)

**14A005**

Exterior rear  
view mirror,  
driver side  
(17692)

MALE

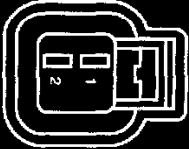
| Pin | Circuit    | Circuit function                  |
|-----|------------|-----------------------------------|
| 1   | 540 (RD)   | Light/Left mirror movement        |
| 2   | 542 (YE)   | Mirror motor, feed                |
| 3   | 541 (DB)   | Up/Down mirror movement           |
| 4   | 3 (LG/W-H) | Turn lamps, feed, left front      |
| 5   | 57 (BK)    | Defrost, Turn signal, Ground      |
| 6   | 59 (DG/VT) | HTD mirror relay, switched output |
| 7   | 14 (BN)    | Power, Exterior lamps             |
| 8   | -          | not used                          |
| 9   | -          | not used                          |
| 10  | -          | not used                          |



**C523** (BK)

**14A005**

Speaker, left front (18809)



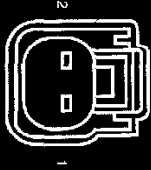
FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 804 (OG/LG) | Speaker, left front (18809) + |
| 2   | 813 (LB/WH) | Speaker, left front (18809) - |

**C524** (BK)

**14A005**

Power window motor, driver side front (23395)



FEMALE

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 992 (WH/BK) | Master window adjust switch (14529), feed, Up   |
| 2   | 991 (TV/LB) | Master window adjust switch (14529), feed, Down |

**C525** (GY)  
**14A005**

Door lock  
actuator, left  
front



1  
2

FEMALE

\* without remote keyless entry

| Pin | Circuit       | Circuit function                          |
|-----|---------------|-------------------------------------------|
| 1   | 163 (RD/OG)   | Driver door unlock relay, switched output |
|     | **118 (PK/OG) | Door lock motor (unlock)                  |
| 2   | 117 (PK/BK)   | Door lock, output                         |

**C526** (BK)  
**14A005**

Door ajar  
switch, driver  
side front  
(14018)



1  
2

FEMALE

\* with remote keyless entry  
\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                     |
|-----|---------------|--------------------------------------|
| 1   | 57 (BK)       | Ground                               |
|     | *765 (YE/BK)  | Door ajar switch, left front, signal |
| 2   | **759 (LG/YE) | Door ajar switch, left front, signal |

**C527** (WH)  
**14A005**  
Exterior rear  
view mirror  
switch  
(178676)

**FEMALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 956 (OG/LG) | Voltage supplied at all times (overload protected) |
| 2   | -           | not used                                           |
| 3   | 543 (DG)    | Right/Left mirror movement                         |
| 4   | 540 (FD)    | Right/Left mirror movement                         |
| 5   | 57 (BK)     | Ground                                             |
| 6   | 542 (YE)    | Mirror motor, common                               |
| 7   | 541 (DB)    | Up/Down mirror movement                            |
| 8   | 544 (VT)    | Up/Down mirror movement                            |

**C601** (GY)  
**14A005**  
Exterior rear  
view mirror,  
passenger side  
(17863)

**MALE**

| Pin | Circuit    | Circuit function                  |
|-----|------------|-----------------------------------|
| 1   | 543 (DG)   | Right/Left mirror movement        |
| 2   | 542 (YE)   | Mirror motor, feed                |
| 3   | 544 (VT)   | Up/Down mirror movement           |
| 4   | 2 (WH/LB)  | Turn lamps, feed, right front     |
| 5   | 57 (BK)    | Defrost , Turn signal Ground      |
| 6   | 59 (DG/VT) | HTD mirror relay, switched output |
| 7   | 14 (BN)    | Power, Exterior lamps             |
| 8   | -          | not used                          |
| 9   | -          | not used                          |
| 10  | -          | not used                          |

**C602** (BK)

**14A005**

Door ajar switch, passenger side front (14018)



FEMALE

\* with remote keyless entry

\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                                             |
|-----|---------------|--------------------------------------------------------------|
| 1   | 57 (BK)       | Ground                                                       |
| 2   | **761 (GV/RD) | Door ajar switch, right front, signal                        |
|     | **760 (PK/LB) | Door ajar switch, right front, right rear, left rear, signal |

**C603** (GY)

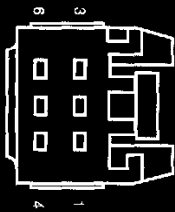
**14A005**

Door lock actuator, passenger side (218A42)



FEMALE

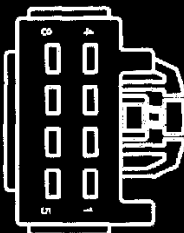
| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | 117 (PK/BK) | Door lock, output   |
| 2   | 118 (PK/OG) | Door unlock, output |

**C604 (GV)****14A005**Window adjust  
switch  
passenger side

FEMALE

\* with crew cab

| Pin | Circuit      | Circuit function                       |
|-----|--------------|----------------------------------------|
| 1   | 313 (WH/YE)  | Window switch, feed, right front, Down |
| 2   | 334 (RD/YE)  | Window motor, feed, Down               |
| 3   | *193 (YE/LG) | Switched power                         |
| 4   | 400 (LB/BK)  | Accessory delay relay, switched output |
| 5   | 333 (YE/RD)  | Window motor, feed, Up                 |
| 6   | 314 (TN/LB)  | Window switch, feed, right front, Up   |

**C605 (GN)****14A005**Door lock  
switch,  
passenger  
side (14026)

FEMALE

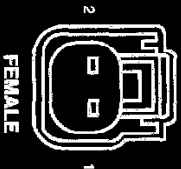
\* with remote keyless entry  
\*\* without remote keyless entry

| Pin | Circuit        | Circuit function                                   |
|-----|----------------|----------------------------------------------------|
| 1   | 57 (BK)        | Ground                                             |
| 2   | *              | not used                                           |
| 3   | **120 (PK/LG)  | Unlock Switch Circuit                              |
| 4   | **1210 (BK/WH) | Unlock Switch Circuit                              |
| 5   | **118 (PK/OG)  | Unlock Switch Circuit                              |
| 6   | *57 (BK)       | Ground                                             |
| 7   | **116 (RD/BK)  | Voltage supplied at all times (overload protected) |
| 8   | 194 (PK)       | Switch illumination                                |
| 9   | -              | not used                                           |
| 10  | **1211 (WH/RD) | Lock Switch Circuit                                |
| 11  | **117 (PK/BK)  | Lock Switch Circuit                                |
| 12  | *              | not used                                           |
| 13  | **119 (PK/YE)  | Lock Switch Circuit                                |

**C608** (BK)

**14A005**

Power window  
motor,  
passenger side  
front (23394)



2

1

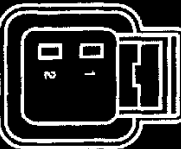
FEMALE

| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 333 (YE/RD) | Window motor, feed, Up   |
| 2   | 334 (RD/YE) | Window motor, feed, Down |

**C612** (BK)

**14A005**

Speaker,  
right front  
(1806)



1

2

FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 805 (WH/LG) | Speaker, right front (1806) + |
| 2   | 811 (DG/OG) | Speaker, right front (1806) - |

**C701 (GY)**

**14A005**

Window adjust switch, left rear (14A412)

FEMALE

| Pin | Circuit     | Circuit function                     |
|-----|-------------|--------------------------------------|
| 1   | 317 (GY/OG) | Window switch, feed, left rear, Down |
| 2   | 885 (YE/LB) | Window motor, feed, Down             |
| 3   | 193 (YE/LG) | Switched power                       |
| 4   | -           | not used                             |
| 5   | 884 (YE/BK) | Window motor, feed, Up               |
| 6   | 316 (YE/LB) | Window switch, feed, left rear, Up   |

**C702 (BK)**

**14A005**

Speaker, left rear (1808)

FEMALE

| Pin | Circuit     | Circuit function            |
|-----|-------------|-----------------------------|
| 1   | 800 (GY/LB) | Speaker, left rear (1808) + |
| 2   | 801 (TN/YE) | Speaker, left rear (1808) - |

**C703** (BK)

**14A005**

Power  
window  
motor, left  
rear (23394)

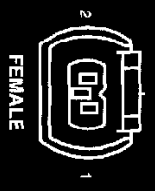


| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 885 (YE/LB) | Window motor, feed, Down |
| 2   | 884 (YE/BK) | Window motor, feed, Up   |

**C704** (GY)

**14A005**

Door lock  
actuator, left  
rear (218A45)



| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | 117 (PK/BK) | Door lock, output   |
| 2   | 118 (PK/OG) | Door unlock, output |

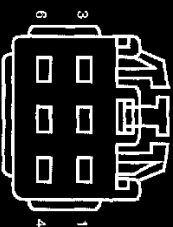


Door ajar  
switch, driver  
side rear  
(14018)

**FEMALE**\* with remote keyless entry  
\*\* without remote keyless entry

| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 57 (BK)      | Ground                                                       |
| 2   | *759 (LGYE)  | Door ajar switch, left rear, signal                          |
|     | **760 (PKLB) | Door ajar switch, right front, right rear, left rear, signal |

Window  
adjust switch  
right rear  
(14A412)



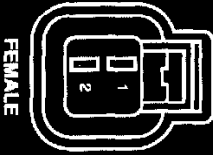
**FEMALE**

| Pin | Circuit     | Circuit function                      |
|-----|-------------|---------------------------------------|
| 1   | 319 (YE/BK) | Window switch, feed, right rear, Down |
| 2   | 882 (BN/YE) | Window motor, feed, Down              |
| 3   | 193 (YE/G)  | Switched power                        |
| 4   | —           | not used                              |
| 5   | 881 (BN)    | Window motor, feed, Up                |
| 6   | 320 (RD/BK) | Window switch, feed, right rear, Up   |

**C802** (BK)

**14A005**

Speaker,  
right rear  
(18808)



FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 802 (OG/RO) | Speaker, right rear (18808) + |
| 2   | 803 (BN/PK) | Speaker, right rear (18808) - |

**C803** (BK)

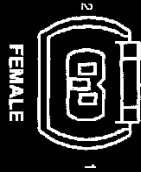
**14A005**

Power window  
motor, right  
rear (23394)



FEMALE

| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 882 (BN/YE) | Window motor, feed, Down |
| 2   | 881 (BN)    | Window motor, feed, Up   |

**C804 (GY)****14A005**Door lock  
actuator, right  
rear (213A42)

| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | 117 (PK/BK) | Door lock, output   |
| 2   | 118 (PK/OG) | Door unlock, output |

**C820 (BK)****14A005**Door ajar switch,  
passenger side  
rear (14018)

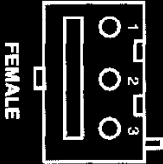
W/RKE

| Pin | Circuit     | Circuit function                                             |
|-----|-------------|--------------------------------------------------------------|
| 1   | 57 (BK)     | Ground                                                       |
| 2   | 760 (PK/LB) | Door ajar switch, right rear, signal                         |
|     | 760 (PK/LB) | Door ajar switch, right front, right rear, left rear, signal |

**C904** (GV)

**14A005**

High mounted stoplamp (134A13)



FEMALE

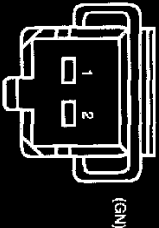
| Pin | Circuit    | Circuit function                                  |
|-----|------------|---------------------------------------------------|
| 1   | 53 (BK/LB) | Interior lamps relay, switched output             |
| 2   | 511 (LG)   | Brake pedal position switch (13480), to stoplamps |
| 3   | 57 (BK)    | Ground                                            |

**C906**

**17C712**

Vanity mirror lamp, right (0A100)

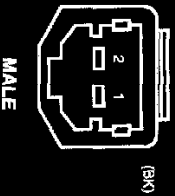
without roof opening panel



(GN)

FEMALE

with roof opening panel



(BK)

MALE

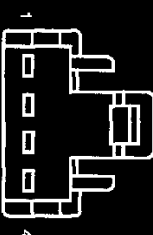
| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | 54 (LG/YE) | Battery saver relay, switched output |
| 2   | 57 (BK)    | Ground                               |

Vanity mirror  
lamp, left  
(04100)



| Pin | Circuit   | Circuit function                     |
|-----|-----------|--------------------------------------|
| 1   | 54 (LGYE) | Battery saver relay, switched output |
| 2   | 57 (BK)   | Ground                               |

## 17C712



| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 676 (PK/OG) | Ground                                       |
| 2   | 640 (RD/YE) | Voltage supplied in Run (overload protected) |
| 3   | 703 (WH/OG) | Compass data -                               |
| 4   | 702 (WH/BK) | Compass data +                               |

**C911 (BK)**  
**17C712**

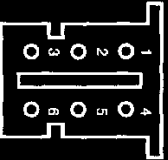
Electrochromatic  
inside mirror unit  
(17700)



| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 640 (RD/YE) | Voltage supplied in Run (overload protected) |
| 2   | 57 (BK)     | Ground                                       |
| 3   | 140 (BK/PK) | Reversing lamps relay, switched output       |
| 4   | -           | not used                                     |
| 5   | -           | not used                                     |
| 6   | -           | not used                                     |
| 7   | -           | not used                                     |

**C921a**  
**17C712**

Roof opening  
panel module  
(502D70)



FEMALE

| Pin | Circuit      | Circuit function                       |
|-----|--------------|----------------------------------------|
| 1   | 1175 (TN/RD) | Roof opening panel, Close circuit      |
| 2   | 1174 (WH/RD) | Roof opening panel, Open circuit       |
| 3   | 57 (BK)      | Ground                                 |
| 4   | 400 (LB/BK)  | Accessory delay relay, switched output |
| 5   | 1173 (BN/OG) | Roof opening panel, common             |
| 6   | -            | not used                               |

**C931** (GY)

**14A005**

Interior/map  
lamps  
assembly,  
front



**FEMALE**

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 53 (BK/LB) | Interior lamps relay, switched output |
| 2   | 57 (BK)    | Ground                                |
| 3   | 54 (LG/YE) | Battery saver relay, switched output  |

**C932** (GY)

**14A005**

Interior/map  
lamps  
assembly,  
rear



**FEMALE**

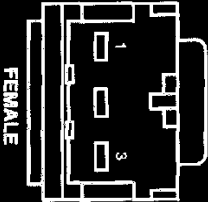
| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 53 (BK/LB) | Interior lamps relay, switched output |
| 2   | 57 (BK)    | Ground                                |
| 3   | 54 (LG/YE) | Battery saver relay, switched output  |

**C970** (BK)

**15A404**

**17C712**

Roof marker  
lamp, left



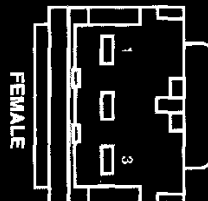
| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

**C971** (BK)

**15A404**

**17C712**

Roof marker  
lamp, left  
center



| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

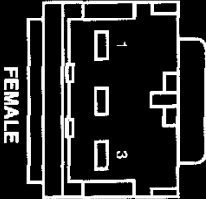


**C972** (BK)

**15A404**

**17C712**

Roof  
marker  
lamp,   
center



**FEMALE**

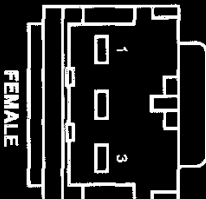
| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

**C973** (BK)

**15A404**

**17C712**

Roof  
marker  
lamp, right  
center



**FEMALE**

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

**C974** (BK)  
**15A404**  
**17C712**  
 Roof  
 marker  
 lamp, right

**FEMALE**

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

**C1000**  
**12A581**  
 Daytime  
 Running  
 Lamps (DRL)  
 relay 3

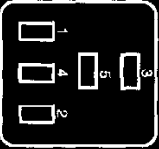
**FEMALE**

| Pin | Circuit      | Circuit function                                                          |
|-----|--------------|---------------------------------------------------------------------------|
| 30  | 13 (RD/BK)   | Headlamp circuit (DRL)                                                    |
| 85  | 57 (BK)      | Ground                                                                    |
| 86  | 1032 (WH/BK) | Daytime Running Lamps (DRL) relay 2, switched output                      |
| 87  | 471 (OG/G)   | Daytime running lamps resistor, to<br>Daytime Running Lamps (DRL) relay 3 |
| 87A | 1033 (RD/YE) | Daytime Running Lamps (DRL) relay 2, switched output                      |

C1008

12A581

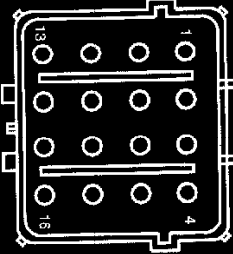
A/C clutch relay



FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched output                   |
| 2   | 331 (PK/YE) | A/C clutch relay, control                          |
| 3   | 326 (WH/VT) | Voltage supplied at all times (overload protected) |
| 4   | -           | not used                                           |
| 5   | 321 (GY/WH) | A/C clutch relay, switched output                  |

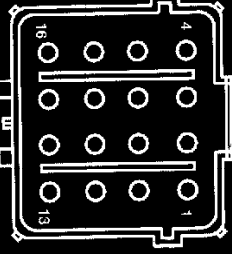
C1010 (BK)



12A581

MALE

15525



15525

FEMALE

(1) \*653 (DB)

(2) \*359 (GY/RD)

(3) \*+ 324 (YE/LG)

(4) 704 (DG/LB)

(5) \*787 (PK/BK)

(6) -

(7) -

(8) -

(9) -

(10) -

(11) 57 (BK)

(12) 975 (BN/YE)

(13) 210 (LB)

(14) \*\*391 (RD/YE)

(15) \*643 (RD)

(16) \*\*\*146 (LG/RD)

(1) \*653 (DB)

(2) \*359 (GY/RD)

(3) \*+ 324 (YE/LG)

(4) +704 (DG/LB)

(5) \*787 (PK/BK)

(6) -

(7) -

(8) -

(9) -

(10) -

(11) 57 (BK)

(12) +++ 975 (BN/YE)

(13) +++ 210 (LB)

(14) \*\*391 (RD/YE)

(15) \*643 (RD)

(16) \*\*\*146 (LG/RD)

\* 6.0L

\*\* Gas

... 6.0L with manual transmission

+ Gas with manual transmission

++ w/ESOF

+++ w/manual 4WD

C1011

12A581

Blower motor relay

FEMALE

\* w/ EATC

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 30  | 364 (BK/LG) | Voltage supplied at all times (overload protected)        |
| 85  | 296 (WH/NT) | * Ground<br>Voltage in Run (overload protected)           |
| 86  | 399 (BN/YE) | Blower motor relay, control<br>* Blower motor relay, feed |
| 87  | 181 (BN/OG) | Blower motor relay switched power, output                 |
| 87A | -           | not used                                                  |

C1019 (BK)

19D605

MALE

|      |              |      |             |
|------|--------------|------|-------------|
| (1)  | 57 (BK)      | (1)  | 57 (BK)     |
| (2)  | 752 (YE/RD)  | (2)  | 752 (YE/RD) |
| (3)  | 754 (LG/WH)  | (3)  | 754 (LG/WH) |
| (4)  | -            | (4)  | -           |
| (5)  | -            | (5)  | -           |
| (6)  | -            | (6)  | -           |
| (7)  | -            | (7)  | -           |
| (8)  | -            | (8)  | -           |
| (9)  | 261 (OG/BK)  | (9)  | 261 (OG/BK) |
| (10) | -            | (10) | -           |
| (11) | -            | (11) | -           |
| (12) | 751 (DB/WH)  | (12) | 261 (OG/BK) |
|      | *261 (OG/BK) |      |             |

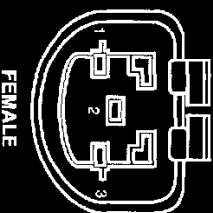
C1019

12A581

FEMALE

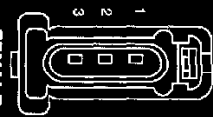
\* without EATC

**C1021** (GY)  
**12A581**  
Headlamp, left (13008)



| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 160 (DB/MH) | Headlamp, left (13008), (Low beam lamp feed) |
| 2   | 57 (BK)     | Ground                                       |
| 3   | 12 (LG/BK)  | Power, Hot with High Beams on                |

**C1023** (BK)  
**12A581**  
Park/turn lamp, left front (13411)

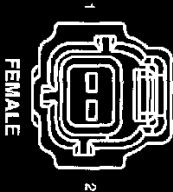


| Pin | Circuit   | Circuit function             |
|-----|-----------|------------------------------|
| 1   | 57 (BK)   | Ground                       |
| 2   | 14 (BN)   | Power, Exterior lamps        |
| 3   | 3 (LG/MH) | Turn lamps, feed, left front |

**C1025** (BK)

**12A581**

Brake pressure switch (2B264)



FEMALE

| Pin | Circuit     | Circuit function                     |
|-----|-------------|--------------------------------------|
| 1   | 418 (DG/YE) | Brake feed                           |
| 2   | 307 (BK/YE) | Brake pressure switch (2B264), input |

**C1026** (BK)

**14B060/14300**



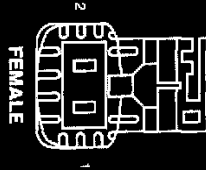
MALE

**12A581**

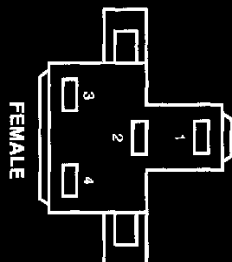


FEMALE

(1) 118 (YE/LB)

**C1031** (BK)**12A581**Heater  
blower  
motor  
(19905)

| Pin | Circuit     | Circuit function                    |
|-----|-------------|-------------------------------------|
| 1   | 181 (BN/OG) | Blower motor relay, switched output |
| 2   | 261 (OG/BK) | Blower motor, to switch             |

**C1032** (WH)**19D605**Heater blower  
motor resistor  
(19A706)

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 754 (LG/WH) | Blower switch speed control, to resistor |
| 2   | 57 (BK)     | Ground                                   |
| 3   | 752 (YE/RD) | Blower switch speed control, to resistor |
| 4   | 261 (OG/BK) | Blower motor, to switch                  |

**C1035**

**12A581**

Battery Junction  
Box (3A8)  
(14A087)

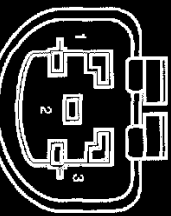


| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

**C1041 (GY)**

**12A581**

Headlamp, right (13008)



FEMALE

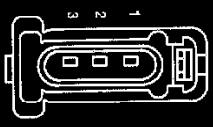
| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                 |
| 2   | 57 (BK)     | Ground                                        |
| 3   | 161 (DG/OG) | Headlamp, right (13008), (Low beam lamp feed) |



**C1043** (BK)

**12A581**

Park/turn  
lamp, right  
front (13411)

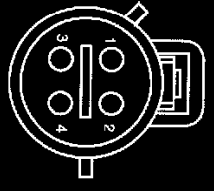


FEMALE

| Pin | Circuit   | Circuit function              |
|-----|-----------|-------------------------------|
| 1   | 57 (BK)   | Ground                        |
| 2   | 14 (BN)   | Power, Exterior lamps         |
| 3   | 2 (WH/LE) | Turn lamps, feed, right front |

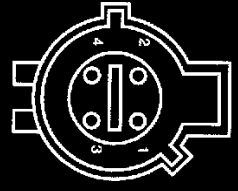
**C1045** (GY)

**15A211**



MALE

**12A581**



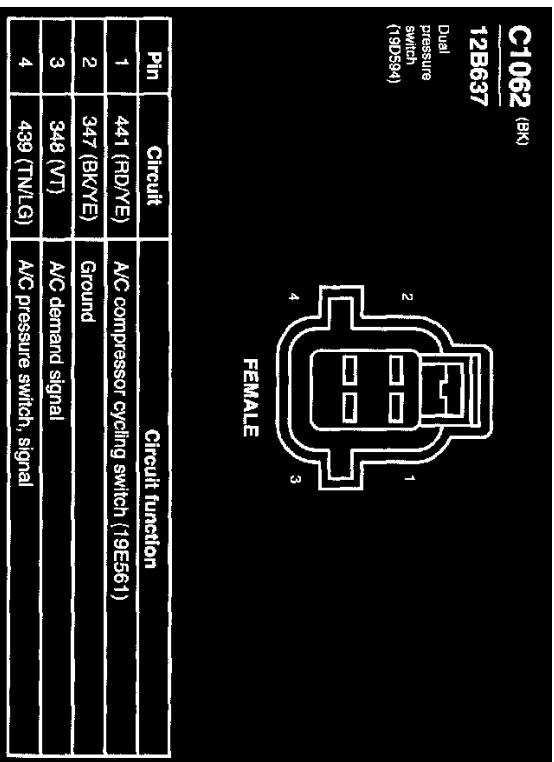
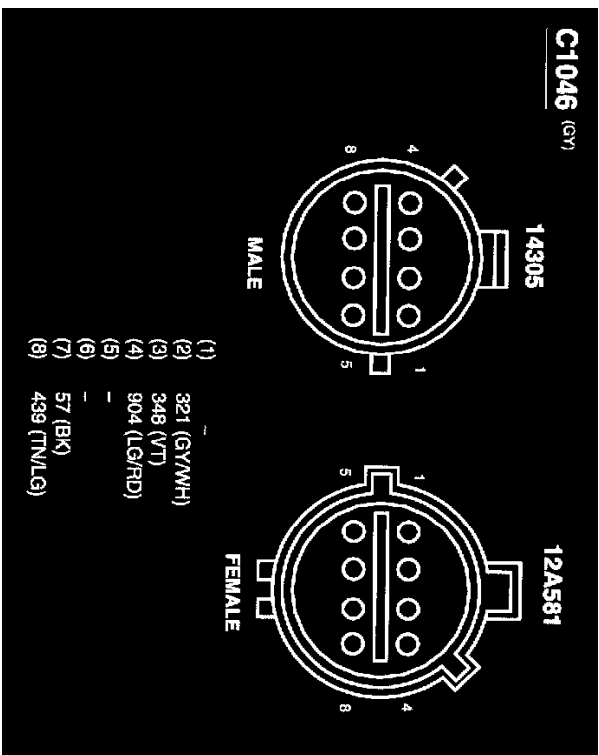
FEMALE

(1) 487 (TN/OG)

(2) -

(3) 57 (BK)

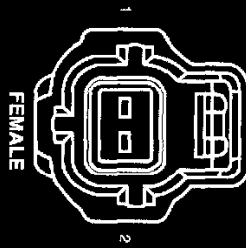
(4) -



**C1064** (GY)

**12B637**

Engine Coolant  
Temperature  
(ECT) sensor  
(12A648)

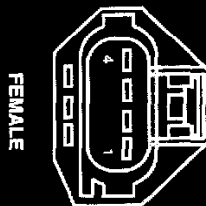


| Pin | Circuit     | Circuit function  |
|-----|-------------|-------------------|
| 1   | 359 (GY/RD) | Signal return     |
| 2   | 3076 (Y/WH) | Reference voltage |

**C1073** (BK)

**12B637**

Injector  
Pressure  
Sensor (IPS)

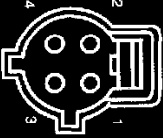


| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 1   | 1289 (OG/LG) | Fuel rail pressure sensor signal            |
| 2   | 3073 (RD/WH) | Fuel rail pressure sensor reference voltage |
| 3   | 225 (BK/YE)  | Fuel rail temperature sensor signal         |
| 4   | 359 (GN/RD)  | Signal return                               |

**C1078** (BK)

**14305**

A/C high pressure switch (19D594)



FEMALE

| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 441 (RD/YE) | A/C pressure switch, to A/C cycling switch |
| 2   | -           | not used                                   |
| 3   | 439 (TN/LG) | A/C pressure switch, signal                |
| 4   | -           | not used                                   |

**C1080** (BK)

**9F759**

Water-in-fuel sensor



FEMALE

| Pin | Circuit     | Circuit function  |
|-----|-------------|-------------------|
| 1   | 643 (RD)    | Reference voltage |
| 2   | 359 (GV/RD) | Signal return     |

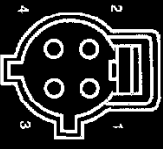
**C1081** (BK)

**12A581**

**14305**

**19B573**

A/C compressor cycling switch (18E561)



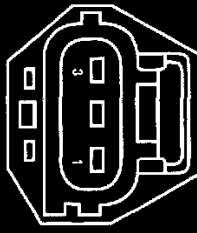
**FEMALE**

| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 441 (FD/YE) | A/C pressure switch, to A/C cycling switch |
| 2   | -           | not used                                   |
| 3   | -           | not used                                   |
| 4   | 348 (VT)    | A/C demand signal                          |

**C1087** (BK)

**12A581**

Manifold Absolute Pressure (MAP) sensor



**FEMALE**

| Pin | Circuit     | Circuit function                                                                     |
|-----|-------------|--------------------------------------------------------------------------------------|
| 1   | 351 (BN/WH) | Reference voltage                                                                    |
| 2   | 358 (LG/BK) | Manifold Absolute Pressure (MAP) sensor, to Powertrain Control Module (PCM) (12A650) |
| 3   | 359 (GY/RD) | Signal return                                                                        |

**C1100a**

14300

14305

14B060

Battery (10655)



12A581

14305



| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

**C1100b**

14301

14B060

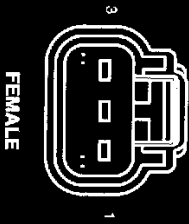
Battery (10655)





| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2057 (BK) | Ground           |
|     | 2057 (BK) | Ground           |

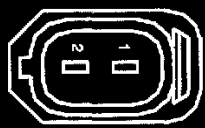
**C1107**  
**15525**  
Output Shaft  
Speed (OSS)  
sensor (7H103)



6.0L  
\*\*Others

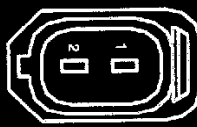
| Pin | Circuit        | Circuit function                                |
|-----|----------------|-------------------------------------------------|
| 1   | *371 (PK/WH)   | Reference voltage                               |
|     | **3087 (DGVY)  | Reference voltage                               |
| 2   | 136 (DBYE)     | Output Shaft Speed (OSS) sensor (7H103), signal |
|     | *570 (BK/WH)   | Ground                                          |
| 3   | **1704 (VT/LG) | Signal return                                   |

**C1126** (BK)  
**12A581**  
Side lamp, right front (13x11)



| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

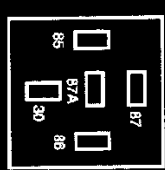
**C1127** (BK)  
**12A581**  
 Side lamp, left front (13411)



FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

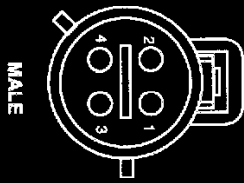
**C1129**  
**15525**  
 Transfer case low to high relay



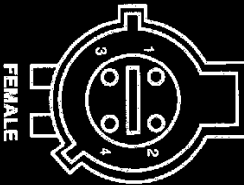
FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 30  | 777 (YE)    | Transfer case, low to high, feed                   |
| 85  | 782 (BN/WH) | Switched ground                                    |
| 86  | 704 (DG/LG) | Voltage supplied at all times (overload protected) |
| 87  | 704 (DG/LG) | Transfer case low to high relay, switched output   |
| 87A | 57 (BK)     | Ground                                             |

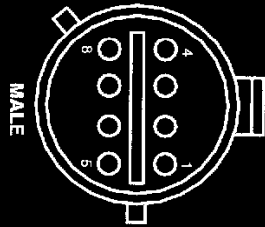


**C1147 (BK)****12A581****MALE**

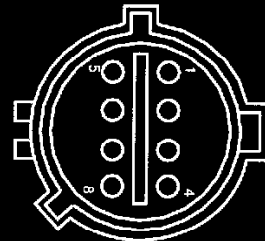
- (1) 3061 (LB/OG)
- (2) -
- (3) 470 (PK/BK)
- (4) -

**14K073****FEMALE**

- (1) 3061 (LB/OG)
- (2) -
- (3) 470 (PK/BK)
- (4) -

**C1148 (BK)****14305****MALE**

- (1) 904 (LG/RD)
- (2) 1183 (WH/YE)
- (3) -
- (4) 1183 (WH/YE)
- (5) 1183 (YE)
- (6) 904 (LG/RD)
- (7) -
- (8) -

**12A581****FEMALE**

- (1) 904 (LG/RD)
- (2) 904 (LG/RD)
- (3) -
- (4) 1183 (WH/YE)
- (5) 1183 (YE)
- (6) 3090 (VT)
- (7) -
- (8) -

**C1159** (GV)  
**12A581**

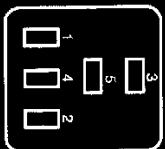
Engine compartment lamp



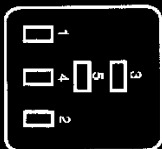
| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | 54 (LG/YE) | Battery saver relay, switched output |
| 2   | 57 (BK)    | Ground                               |

**C1171**  
**12A581**

Daytime  
Running Lamps  
(DRL) relay 1

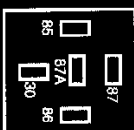


| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 295 (LB/PK) | Voltage supplied in run (overload protected) |
| 2   | 162 (LG/RD) | Parking brake switch, input                  |
| 3   | 295 (LB/PK) | Voltage supplied in run (overload protected) |
| 4   | 175 (BK/YE) | Park brake relay, switched output            |
| 5   | -           | not used                                     |

**C1172****12A581**Daytime  
Running Lamps  
(DRL) relay 2

FEMALE

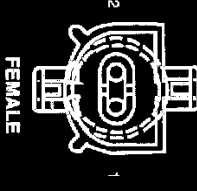
| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 1   | 15 (FD/YE)   | Power, Hot with Headlamps on                         |
| 2   | 57 (BK)      | Ground                                               |
| 3   | 175 (BK/YE)  | Park brake relay, switched output                    |
| 4   | 1032 (WH/BK) | Daytime Running Lamps (DRL) relay 2, switched output |
| 5   | -            | not used                                             |

**C1173****15525**Transfer  
case high to  
low relay

FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 30  | 778 (OG)    | Transfer case, high to low, feed                   |
| 85  | 781 (OG/LB) | Switched ground                                    |
| 86  | 704 (DG/LG) | Voltage supplied at all times (overload protected) |
| 87  | 704 (DG/LG) | Voltage supplied at all times (overload protected) |
| 87A | 57 (BK)     | Ground                                             |

**C1177** (BK)  
**15525**  
 4x4 High/Low indicator switch



FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 975 (BN/YE) | Four-wheel drive Low indicator, control  |
| 2   | 210 (LB)    | Four-wheel drive High indicator, control |

**C1181** (BK)  
**12B637**  
 Fuel Injector 1 (9F593)



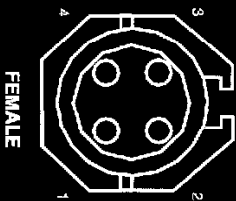
FEMALE

| Pin | Circuit   | Circuit function                            |
|-----|-----------|---------------------------------------------|
| 1   | 4 (WH/BK) | Fuel injector 1 (9F593), open coil, Power   |
| 2   | 3 (LG/WH) | Fuel injector 1 (9F593), open coil, Ground  |
| 3   | 1 (DB)    | Fuel injector 1 (9F593), close coil, Power  |
| 4   | 2 (WH/LB) | Fuel injector 1 (9F593), close coil, Ground |

**C1182** (BK)

**12B637**

Fuel Injector 2 (9F593)

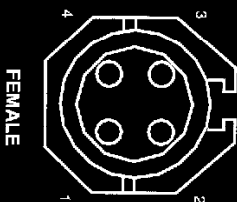


| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 20 (WH/LB) | Fuel injector 2 (9F593), open coil, Power   |
| 2   | 19 (LB/RD) | Fuel injector 2 (9F593), open coil, Ground  |
| 3   | 17 (WH)    | Fuel injector 2 (9F593), close coil, Power  |
| 4   | 18 (OG/YE) | Fuel injector 2 (9F593), close coil, Ground |

**C1183** (BK)

**12B637**

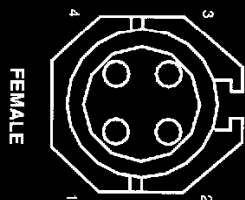
Fuel Injector 3 (9F593)



| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 28 (BK/PK) | Fuel Injector 3 (9F593), open coil, Power   |
| 2   | 27 (OG/LG) | Fuel Injector 3 (9F593), open coil, Power   |
| 3   | 25 (DG/VT) | Fuel Injector 3 (9F593), close coil, Power  |
| 4   | 26 (WH/VT) | Fuel Injector 3 (9F593), close coil, Ground |

**C1184** (BK)**12B637**

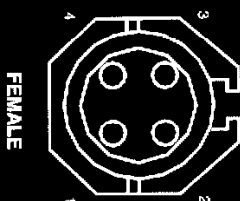
Fuel Injector 4 (9F593)



| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 33 (WH/PK) | Fuel Injector 4 (9F593), open coil, Power   |
| 2   | 7 (LG/YE)  | Fuel Injector 4 (9F593), open coil, Ground  |
| 3   | 5 (OG/LB)  | Fuel Injector 4 (9F593), close coil, Power  |
| 4   | 6 (YE/LG)  | Fuel Injector 4 (9F593), close coil, Ground |

**C1185** (BK)**12B637**

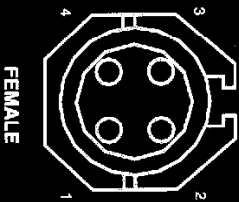
Fuel Injector 5 (9F593)



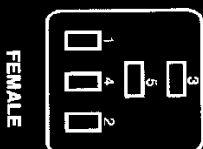
| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 24 (DB/OG) | Fuel Injector 5 (9F593), open coil, Power   |
| 2   | 23 (TN/LG) | Fuel Injector 5 (9F593), open coil, Ground  |
| 3   | 21 (DG/LG) | Fuel Injector 5 (9F593), close coil, Power  |
| 4   | 22 (LB/BK) | Fuel Injector 5 (9F593), close coil, Ground |

**C1186** (BK)**12B637**

Fuel injector 6 (9F593)



| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 16 (RD/LG) | Fuel injector 6 (9F593), open coil, Power   |
| 2   | 15 (RD/YE) | Fuel injector 6 (9F593), open coil, Ground  |
| 3   | 13 (RD/BK) | Fuel injector 6 (9F593), close coil, Power  |
| 4   | 14 (BN)    | Fuel injector 6 (9F593), close coil, Ground |

**C1187****12A581**Trailer tow  
relay, right  
turn

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 57 (BK)      | Ground                                             |
| 2   | 5 (OG/LB)    | Relay, control                                     |
| 3   | 1362 (DG/OG) | Voltage supplied at all times (overload protected) |
| 4   | -            | not used                                           |
| 5   | 64 (DG)      | Trailer lamp socket, Right turn signal             |

**C1188**  
**12A581**  
Trailer low  
relay, left  
turn

FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 57 (BK)      | Ground                                             |
| 2   | 9 (LG/OG)    | Relay, control                                     |
| 3   | 1362 (DG/OG) | Voltage supplied at all times (overload protected) |
| 4   | -            | not used                                           |
| 5   | 52 (YE)      | Trailer lamp socket, Left turn signal              |

**C1189** (BK)  
**12B637**  
Throttle Position  
Sensor (TPS)  
(9F991)

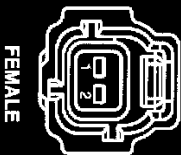
FEMALE

| Pin | Circuit      | Circuit function                                         |
|-----|--------------|----------------------------------------------------------|
| 1   | 357 (YE/WH)  | Throttle Position Sensor (TPS) (9F991) signal 2          |
| 2   | 1945 (V7/WH) | Throttle Position Sensor (TPS) (9F991) Reference voltage |
| 3   | 1946 (OG/LB) | Throttle Position Sensor (TPS) (9F991) Signal return     |
| 4   | 355 (GY/WH)  | Throttle Position Sensor (TPS) (9F991) signal 1          |



**C1195** (BK)  
**12A581**

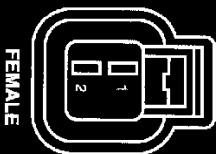
Vapor management valve



| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 361 (RD)    | PCM power relay, switched power |
| 2   | 191 (LG/BK) | Vapor management valve, control |

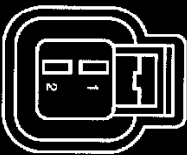
**C1204** (GY)  
**12B637**

Fuel injector 9 (9F593)



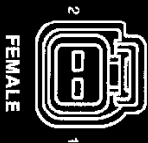
| Pin | Circuit      | Circuit function                 |
|-----|--------------|----------------------------------|
| 1   | 1100 (GY/BK) | Fuel injector 9 (9F593), control |
| 2   | 391 (RD/YE)  | PCM power relay, switched power  |

**C1205** (GV)  
**12B637**  
Fuel Injector 10 (9F593)



| Pin | Circuit      | Circuit function                  |
|-----|--------------|-----------------------------------|
| 1   | 1101 (GV/RD) | Fuel Injector 10 (9F593), control |
| 2   | 391 (RD/YE)  | PCM power relay, switched power   |

**C1206** (BK)  
**12B637**  
Coil On Plug (COP) 9 (12A366)



| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 116 (RD/LG)  | Voltage supplied in Start and Run (overload protected) |
| 2   | 1141 (YE/BK) | Switched ground                                        |

**C1207** (BK)

**12B637**

Coil On Plug (COP) 10 (12A366)



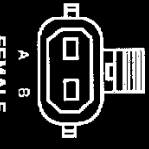
**FEMALE**

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1142 (WH/RD) | Switched ground                                        |

**C1210** (BK)

**12A581**

Air filter sensor

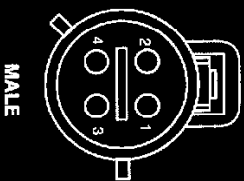


**FEMALE**

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 57 (BK)     | Ground                          |
| 2   | 142 (LB/RD) | Air filter sensor signal, Input |

# C1221 (BK)

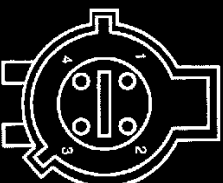
14B102



MALE

- (1) -
- (2) 1102 (YE/LG)
- (3) 359 (GY/RD)
- (4) -

12B637



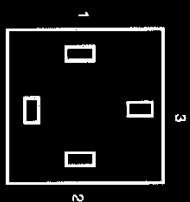
FEMALE

- (1) -
- (2) 1102 (YE/LG)
- (3) 359 (GY/RD)
- (4) -

# C1235

12A581

Fuel Injector  
Control Module  
(FICM) power  
relay



FEMALE

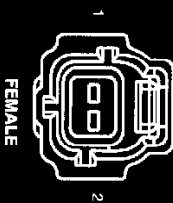
| Pin | Circuit      | Circuit function                                                        |
|-----|--------------|-------------------------------------------------------------------------|
| 1   | 792 (TN/YE)  | Fuel Injector Control Module (FICM) power relay, switched power, output |
| 2   | 3098 (RD/YE) | Switched ground                                                         |
| 3   | 876 (DG/LG)  | Voltage supplied at all times (overload protected)                      |
| 5   | 1523 (DG)    | Voltage supplied at all times (overload protected)                      |

**C1236** (G<sup>Y</sup>)

**9D930**

**12B637**

Manifold Air  
Temperature  
(MAT) sensor



FEMALE

| Pin | Circuit                  | Circuit function                                       |
|-----|--------------------------|--------------------------------------------------------|
| 1   | 359 (G <sup>Y</sup> /RD) | Signal return                                          |
| 2   | 42 (RD/WH)               | Signal from Powertrain Control Module (PCM) (12A650) - |

**C1244** (B<sup>K</sup>)

**12B637**

Injection  
Control  
Pressure  
(ICP) sensor



FEMALE

| Pin | Circuit                  | Circuit function                   |
|-----|--------------------------|------------------------------------|
| 1   | 359 (G <sup>Y</sup> /RD) | Signal return                      |
| 2   | 351 (BN/WH)              | Reference voltage                  |
| 3   | 812 (DB/LG)              | Injection pressure sensor, monitor |

**C1247** (BK)

**12A581**

Electronic Shift On the Fly (ESOF) solenoid



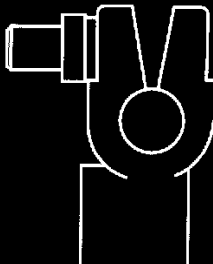
FEMALE

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 1   | 145 (GY/BK) | Electronic Shift On the Fly (ESOF) solenoid, 4X4, control |
| 2   | 295 (LB/PK) | Voltage supplied in Run (overload protected)              |
| 3   | 605 (RD)    | Electronic Shift On the Fly (ESOF) solenoid, 4X2, control |

**C1249b**

**14301**

Battery II



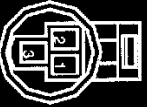
| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2057 (BK) | Ground           |

**C1251c**  
**14305**  
Generator, secondary



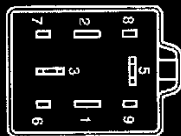
| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 36 (YEM/H) | Voltage supplied at all times (overload protected) |

**C1271 (BK)**  
**12B637**  
Exhaust Back  
Pressure  
(EBP) sensor



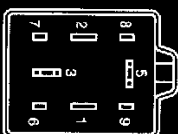
FEMALE

| Pin | Circuit     | Circuit function  |
|-----|-------------|-------------------|
| 1   | 359 (GY/RD) | Signal return     |
| 2   | 351 (BN/WH) | Reference voltage |
| 3   | 553 (VT/LB) | Position sense    |

**C1273a** (GN)**12B637**Glow Plug  
Control  
Module  
(GFCM)

FEMALE

| Pin | Circuit      | Circuit function         |
|-----|--------------|--------------------------|
| 1   | 150 (DG/WH)  | Glow plug 5, control     |
| 2   | 170 (RD/LB)  | Glow plug 7, control     |
| 3   | 38 (BK/OG)   | Battery Power            |
| 4   | —            | not used                 |
| 5   | —            | not used                 |
| 6   | 110 (WH/LG)  | Glow plug 1, control     |
| 7   | 130 (RD/LG)  | Glow plug 3, control     |
| 8   | 1086 (VT/OG) | Glow plug relay, control |
| 9   | 1277 (WH/LG) | Glow plug relay, control |

**C1273b** (BK)**12B637**Glow Plug  
Control  
Module  
(GPCM)

FEMALE

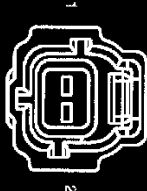
| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 160 (DB/WH) | Glow plug 6, control            |
| 2   | 180 (RD)    | Glow plug 8, control            |
| 3   | 38 (BK/OG)  | Battery Power                   |
| 4   | —           | not used                        |
| 5   | —           | not used                        |
| 6   | 120 (PK/LG) | Glow plug 2, control            |
| 7   | 140 (BK/PK) | Glow plug 4, control            |
| 8   | —           | not used                        |
| 9   | 361 (RD)    | PCM power relay, switched power |



**C1275** (BK)

**12B637**

Camshaft position sensor (8B238)



FEMALE

| Pin | Circuit | Circuit function                                  |
|-----|---------|---------------------------------------------------|
| 1   | 50 (RD) | Camshaft position sensor (8B238), Sensor signal + |
| 2   | 49 (OG) | Camshaft position sensor (8B238), Sensor signal - |

**C1278**

**12A581** (GY)

Sealed beam headlamp jumper (left)

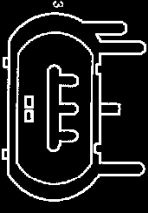


FEMALE

(1) 160 (DB/W+)

(2) 57 (BK)

(3) 12 (LG/BK)

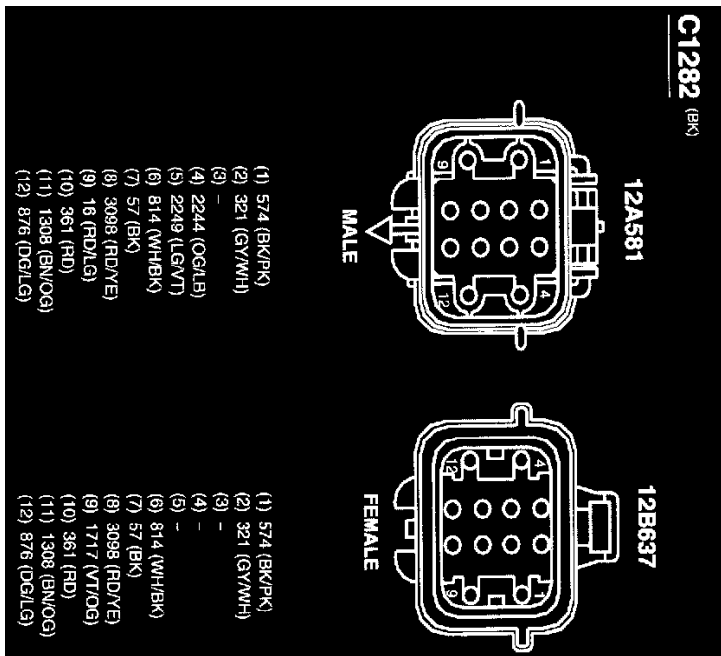
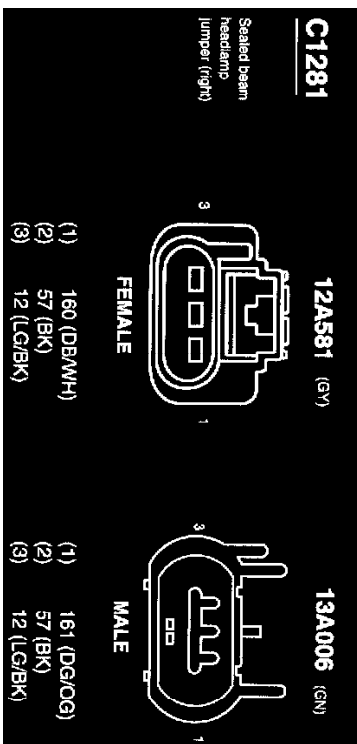


MALE

(1) 161 (DG/OG)

(2) 57 (BK)

(3) 12 (LG/BK)



**C1284** (BK)

**13A006**

Headlamp, left (13008)  
(sealed beam)



**FEMALE**

| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                |
| 2   | 57 (BK)     | Ground                                       |
| 3   | 160 (DB/WH) | Headlamp, left (13008), (Low beam lamp feed) |

**C1285** (BK)

**13A006**

Headlamp, right  
(13009) (sealed beam)



**FEMALE**

| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                 |
| 2   | 57 (BK)     | Ground                                        |
| 3   | 161 (DG/OG) | Headlamp, right (13009), (Low beam lamp feed) |

**C1298** (BK)

**12A581**

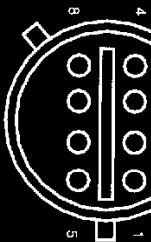
**FEMALE**



- (1) -
- (2) 440 (TN/LG)
- (3) 347 (BK/YE)
- (4) 1183 (WH/YE)
- (5) 1185 (YE)
- (6) 904 (LG/RD)
- (7) 441 (RD/YE)
- (8) 439 (TN/LG)

**12B637**

**MALE**

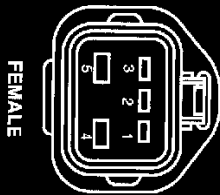


- (1) -
- (2) 348 (VT)
- (3) 347 (BK/YE)
- (4) 1183 (WH/YE)
- (5) 1185 (YE)
- (6) 904 (LG/RD)
- (7) 441 (RD/YE)
- (8) 439 (TN/LG)

**C1308**

**19D605**

Blower motor  
speed  
controller  
(19E624)

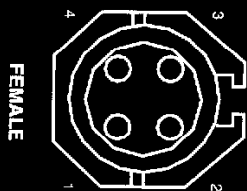


**FEMALE**

| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 752 (YE/RD) | Blower motor speed controller, Signal return |
| 2   | 754 (LG/WH) | Blower motor speed controller, Signal return |
| 3   | 751 (DB/WH) | Blower motor, High                           |
| 4   | 261 (CG/BK) | Blower motor speed controller, command       |
| 5   | 57 (BK)     | Ground                                       |

**C1312** (BK)**12B637**

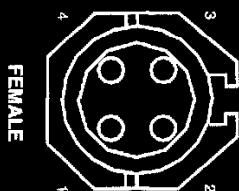
Fuel Injector 7 (9F593)



| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 12 (LG/BK) | Fuel injector 7 (9F593), open coil, Power   |
| 2   | 11 (TN/YE) | Fuel injector 7 (9F593), open coil, Ground  |
| 3   | 9 (LG/OG)  | Fuel injector 7 (9F593), close coil, Power  |
| 4   | 10 (LG/RD) | Fuel injector 7 (9F593), close coil, Ground |

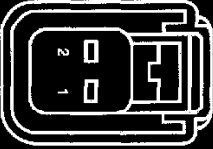
**C1313** (BK)**12B637**

Fuel Injector 8 (9F593)



| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 32 (RD/LB) | Fuel injector 8 (9F593), open coil, Power   |
| 2   | 31 (WH/RD) | Fuel injector 8 (9F593), open coil, Ground  |
| 3   | 29 (YE/WH) | Fuel injector 8 (9F593), close coil, Power  |
| 4   | 30 (BK/LG) | Fuel injector 8 (9F593), close coil, Ground |

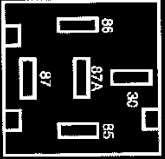
**C1328** (BM)  
**9F759**  
Fuel heater



FEMALE

| Pin | Circuit    | Circuit function                   |
|-----|------------|------------------------------------|
| 1   | 16 (FD/LG) | Fuel heater relay, switched output |
| 2   | 57 (BK)    | Ground                             |

**C1329**  
**12A581**  
Fuel heater relay



FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 30  | 1044 (WH/YE) | Voltage supplied at all times (overload protected)     |
| 85  | 57 (BK)      | Ground                                                 |
| 86  | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 87  | 853 (DB)     | Fuel heater relay, switched output                     |
| 87A | —            | not used                                               |

**C1360** (BK)

**9D930**

**12B637**

Injection  
Pressure  
Regulator  
(IP-R)



**FEMALE**

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 361 (RD)    | PCM power relay, switched power |
| 2   | 552 (YE/RD) | Switched ground                 |

**C1366** (BK)

**12B637**

Camshaft  
position sensor  
RH bank  
(6B288)



**FEMALE**

| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 359 (GY/RD) | Signal return                              |
| 2   | 282 (DB/OG) | Camshaft position sensor 1 (6B288) control |

**C1367** (BK)

**12B637**

Camshaft  
position sensor  
LH Bank  
(6B288)



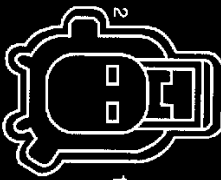
**FEMALE**

| Pin | Circuit      | Circuit function                           |
|-----|--------------|--------------------------------------------|
| 1   | 359 (GY/RED) | Signal return                              |
| 2   | 365 (OG)     | Camshaft position sensor 2 (6B288) control |

**C1368** (BK)

**12B637**

Electronic  
Throttle  
Control (ETC)  
motor  
(9F391)

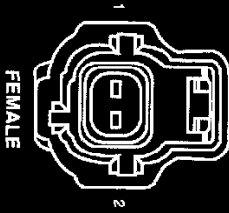


**FEMALE**

| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 1   | 1835 (DB/YE) | Electronic Throttle Control (ETC) motor +/- |
| 2   | 1830 (RD/LG) | Electronic Throttle Control (ETC) motor -/+ |

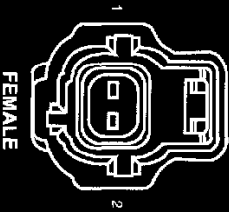


**C1369** (BK)  
**12B637**  
 Variable  
 Camshaft Timing  
 (VCT) solenoid 1  
 (6B297) RH bank



| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                           |
| 2   | 641 (V7/LB) | Variable camshaft timing (VCT) solenoid 1 (6B297) control |

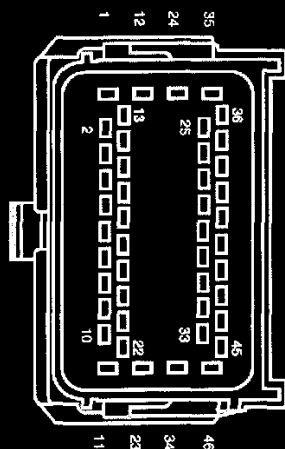
**C1370** (BK)  
**12B637**  
 Variable  
 Camshaft Timing  
 (VCT) solenoid 2  
 (6B297) LH bank



| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                           |
| 2   | 642 (D6/OG) | Variable camshaft timing (VCT) solenoid 2 (6B297) control |

**C1381a** (BK)**12A581**

Powertrain  
Control Module  
(PCM) (12A850)

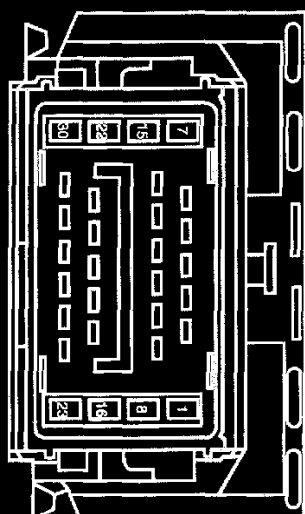


Liesel only  
\* Automatic transmission  
\*\* Manual transmission

| Pin | Circuit      | Circuit function                                      |
|-----|--------------|-------------------------------------------------------|
| 1   | 76 (LG/WH)   | Tachometer output                                     |
| 2   | 331 (PK/YE)  | A/C clutch relay, control                             |
| 3   | 463 (RD/WH)  | Four wheel drive control module, neutral switch sense |
| 4   | 329 (PK)     | Starter relay, control                                |
| 5   | 926 (LB/OG)  | Fuel pump relay, control                              |
| 6   | 2246 (OG/YE) | Power take-off (PTM) control signal                   |
| 7   | 1857 (YE/WH) | Throttle position sensor feed                         |
| 8   | 439 (TN/LG)  | A/C pressure switch, signal                           |
| 9   | 2248 (VT/LG) | Auto charge protect                                   |
| 10  | 567 (LB/YE)  | Ground                                                |
| 11  | 570 (BK/WH)  | Communication network ground (type 1 ground)          |
| 12  | 2242 (OG)    | Power take-off                                        |

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 13  | 1908 (WH)    | High speed CAN +                                   |
| 14  | 1909 (BK)    | High speed CAN -                                   |
| 15  | 643 (RD)     | Water-in-fuel sensor, signal                       |
| 16  | 440 (TN/LG)  | A/C head pressure sensor                           |
| 17  | 162 (LG/RD)  | Parking brake switch, input                        |
| 18  | 810 (RD/LG)  | Brake pedal position switch (13480), input         |
| 19  | 787 (PK/BK)  | Fuel pump power                                    |
| 20  | 3014 (BK/WH) | Accelerator pedal position sensor 3, return        |
| 21  | 968 (TN/LB)  | Mass Air Flow (MAF) sensor (12B579) signal, return |
| 22  | 239 (WH/OG)  | Vehicle speed signal                               |
| 23  | 570 (BK/WH)  | Communication network ground (type 1 ground)       |

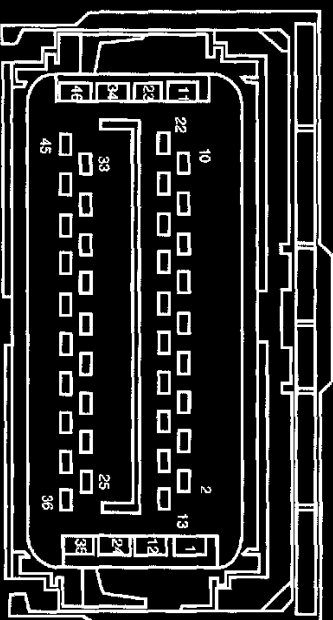
| Pin | Circuit       | Circuit function                                     |
|-----|---------------|------------------------------------------------------|
| 24  | 133 (BK)      | Speed control switch return                          |
| 25  | 3015 (WH/RED) | Accelerator pedal position sensor 3, signal          |
| 26  | 3835 (YE/WH)  | Accelerator pedal position sensor 1, signal          |
| 27  | **92 (LB/YE)  | Clutch pedal starter interlock switch, signal        |
| 28  | 307 (BK/YE)   | Brake pressure switch, input                         |
| 29  | 3013 (GY/BK)  | Accelerator pedal position sensor 2, return          |
| 30  | 3090 (VT)     | Generator/Battery indicator, control                 |
| 31  | 151 (LB/BK)   | Speed control switch input                           |
| 32  | 2247 (OG/BK)  | Customer Access                                      |
| 33  | 359 (GY/RED)  | Signal return                                        |
| 34  | 361 (RD)      | PCM power relay, switched power                      |
| 35  | 679 (GY/BK)   | Vehicle Speed Sensor (VSS), signal                   |
| 36  | **224 (TN/WH) | Tow/haul switch, signal                              |
|     | **306 (TN/LB) | Clutch pedal deactivation switch, signal             |
| 37  | 3012 (WH)     | Accelerator pedal position sensor 2, signal          |
| 38  | 356 (DB/LG)   | Barometric pressure sensor feed                      |
| 39  | 107 (VT)      | Flash EEPROM Module Programming Signal (FEPS)        |
| 40  | 1683 (DG)     | Voltage supplied at all times (overload protected)   |
| 41  | 358 (LG/BK)   | Manifold absolute pressure                           |
| 42  | 967 (LB/RED)  | Mass Air Flow (MAF) sensor (12B579), signal          |
| 43  | 743 (GY)      | Intake air temperature (IAT) sensor (12A697), signal |
| 44  | 2245 (OG/RED) | Power take off voltage reference                     |
| 45  | 351 (BN/WH)   | Power to engine sensors                              |
| 46  | 361 (RD)      | PCM power relay, switched power                      |

**C1381b (BK)****15525**Powertrain  
Control Module  
(PCM)  
(12A650)

FEMALE

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 1   | 371 (PK/WH)  | Reference voltage                                           |
| 2   | 480 (VT/YE)  | Pressure Control (PC-A) solenoid (7G383), control           |
| 3   | 324 (YE/LG)  | Reversing lamps relay, control                              |
| 4   | -            | not used                                                    |
| 5   | 1146 (LG/RD) | not used                                                    |
| 6   | -            | not used                                                    |
| 7   | 1876 (YE/WH) | Shift solenoid VPWR                                         |
| 8   | -            | not used                                                    |
| 9   | 237 (OG/YE)  | Shift Solenoid Pressure Control A (SSPC-A) (7J136), control |
| 10  | 315 (VT/OG)  | Shift Solenoid Pressure Control B (SSPC-B) (7J136), control |
| 11  | 971 (PK/BK)  | Shift Solenoid Pressure Control C (SSPC-C) (7J136), control |
| 12  | 236 (BK/LG)  | Shift Solenoid Pressure Control D (SSPC-D) (7J136), control |
| 13  | 125 (DG/WH)  | Shift Solenoid Pressure Control E (SSPC-E) (7J136), control |
| 14  | 924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid (7J136), control     |

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 15  | -            | not used                                                    |
| 16  | -            | not used                                                    |
| 17  | -            | not used                                                    |
| 18  | -            | not used                                                    |
| 19  | -            | not used                                                    |
| 20  | -            | not used                                                    |
| 21  | -            | not used                                                    |
| 22  | 570 (BK/WH)  | Transmission Range Sensor Assembly (TR-P) (7H557), Ground   |
| 23  | -            | not used                                                    |
| 24  | -            | not used                                                    |
| 25  | 199 (LB/YE)  | Transmission Range Sensor Assembly (TR-P) (7H557), signal   |
| 26  | 923 (OG/BK)  | Transmission Fluid Temperature (TFT) sensor (7H141), signal |
| 27  | 134 (GY/OG)  | Intermediate Shaft Speed (ISS) sensor (7M101), signal       |
| 28  | 136 (DB/YE)  | Output Shaft Speed (OSS) sensor (7H103), signal             |
| 29  | 970 (DG/WH)  | Turbine Shaft Speed (TSS) sensor (7M101), signal            |
| 30  | 1875 (OG/WH) | Signal return                                               |

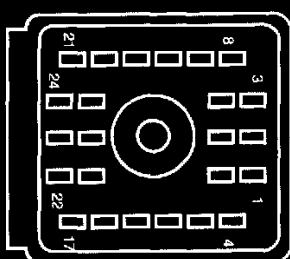
**C1381c** (BK)**12B637**Powertrain  
Control Module  
(PCM) (12A650)

| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 1183 (WH/YE) | Generator/battery charge control                             |
| 2   | 552 (YE/RED) | Injection Pressure Regulator (IPR), control                  |
| 3   | 1086 (VT/OG) | Glow Plug System, signal                                     |
| 4   | 1185 (YE)    | Generator/battery charge control (with dual generators)      |
| 5   | —            | not used                                                     |
| 6   | 229 (RD/OG)  | Electronic fan clutch, signal                                |
| 7   | —            | not used                                                     |
| 8   | —            | not used                                                     |
| 9   | —            | not used                                                     |
| 10  | 43 (DB)      | Variable geometric turbo actuator, common                    |
| 11  | 41 (BK/LB)   | Variable geometric turbo actuator, control                   |
| 12  | —            | not used                                                     |
| 13  | —            | not used                                                     |
| 14  | 228 (DB)     | Electronic fan clutch, control                               |
| 15  | —            | not used                                                     |
| 16  | —            | not used                                                     |
| 17  | 1277 (WH/LG) | Glow plug control module (GPCM), signal                      |
| 18  | —            | not used                                                     |
| 19  | 54 (LG/YE)   | Fuel Injector Control Module (FICM), fuel delivery command   |
| 20  | 56 (DB/OG)   | Fuel Injector Control Module (FICM), cylinder identification |
| 21  | —            | not used                                                     |
| 22  | 360 (BN/PK)  | Engine cooling fan, Ground                                   |

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 23  | 33 (WH/PK)   | EGR valve actuator, control                        |
| 24  | —            | not used                                           |
| 25  | 369 (GY/RED) | Signal return                                      |
| 26  | 70 (LB/WH)   | CAN Bus 2L                                         |
| 27  | 553 (VT/LB)  | Exhaust Back Pressure (EBP) sensor, signal         |
| 28  | 878 (PK/YE)  | Fuel Injector Control Module (FICM), communication |
| 29  | 812 (DB/LG)  | Injection Control Pressure (ICP) sensor, signal    |
| 30  | 349 (DB)     | Crankshaft position sensor (6C315) +               |
| 31  | 50 (RD)      | Camshaft position sensor (6B288) +                 |
| 32  | 3076 (YE/WH) | Coolant temperature sensor, signal                 |
| 33  | 34 (LB/OG)   | EGR valve actuator, position sense                 |
| 34  | —            | not used                                           |
| 35  | —            | not used                                           |
| 36  | 351 (BN/WH)  | Reference voltage                                  |
| 37  | 69 (RD/LG)   | CAN Bus 2H                                         |
| 38  | —            | not used                                           |
| 39  | —            | not used                                           |
| 40  | —            | not used                                           |
| 41  | 350 (GY)     | Crankshaft position sensor (6C315) -               |
| 42  | 57 (BK)      | Ground                                             |
| 43  | 49 (OG)      | Camshaft position sensor (6B288) -                 |
| 44  | 354 (LG/RED) | Engine Oil Temperature (EOT) sensor, signal        |
| 45  | 42 (RD/WH)   | Air Charge Temperature (ACT) sensor, signal        |
| 46  | 352 (BN/LG)  | Electronic fan clutch, Reference voltage           |

**C1385** (BK)**15525**

TorqShift transmission



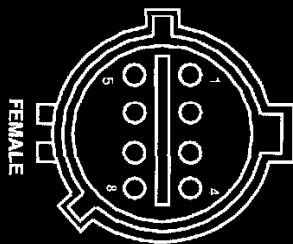
FEMALE

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 1   | 125 (DB/MH)  | Shift Solenoid Pressure Control E (SSPC-E) (7J136), control |
| 2   | -            | not used                                                    |
| 3   | 315 (VT/OG)  | Shift Solenoid Pressure Control B (SSPC-B) (7J136), control |
| 4   | 236 (BK/LG)  | Shift Solenoid Pressure Control D (SSPC-D) (7J136), control |
| 5   | 971 (PK/BK)  | Shift Solenoid Pressure Control C (SSPC-C) (7J136), control |
| 6   | -            | not used                                                    |
| 7   | 1876 (YE/MH) | Shift solenoid VPWR                                         |
| 8   | 924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid (7J136), control     |
| 9   | -            | not used                                                    |
| 10  | 480 (VT/YE)  | Pressure Control (PC-A) solenoid (7G383), control           |
| 11  | -            | not used                                                    |
| 12  | 237 (OG/YE)  | Shift Solenoid Pressure Control A (SSPC-A) (7J136), control |

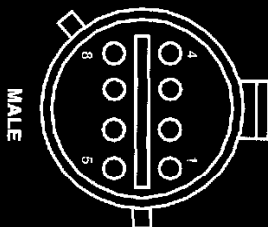
| Pin | Circuit        | Circuit function                                                    |
|-----|----------------|---------------------------------------------------------------------|
| 13  | -              | not used                                                            |
| 14  | -              | not used                                                            |
| 15  | 199 (LB/YE)    | Transmission Range Sensor Assembly (TR-P) (7H557), signal           |
| 16  | -              | not used                                                            |
| 17  | *570 (BK/MH)   | Ground                                                              |
|     | **1867 (OG)    | Transmission Range Sensor Assembly (TR-P) (7H557), Ground           |
| 18  | 923 (OG/BK)    | Transmission Range Sensor Assembly (TR-P) (7H557), Ground           |
| 19  | -              | not used                                                            |
| 20  | 1876 (YE/MH)   | Shift solenoid VPWR                                                 |
| 21  | *371 (PK/MH)   | Reference voltage                                                   |
|     | **3087 (DG/VT) | Reference voltage                                                   |
| 22  | *1875 (OG/MH)  | Signal return, Transmission Fluid Temperature (TF-T) sensor (7H141) |
|     | **1704 (VT/LG) |                                                                     |
| 23  | -              | not used                                                            |
| 24  | 1876 (YE/MH)   | Shift solenoid VPWR                                                 |

\* 6.0L

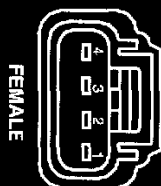
\*\* Others

**C1386** (BK)**15525**

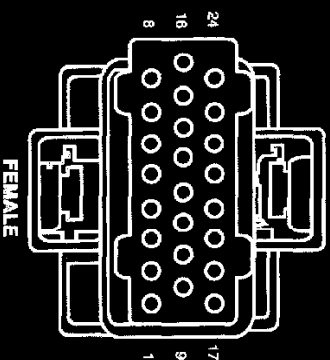
- (1) 57 (BK)
- (2) 787 (PK/BK)
- (3) 57 (BK)
- (4) 653 (DB)
- (5) 359 (GY/RD)
- (6) 643 (RD)
- (7) -
- (8) -

**9F759**

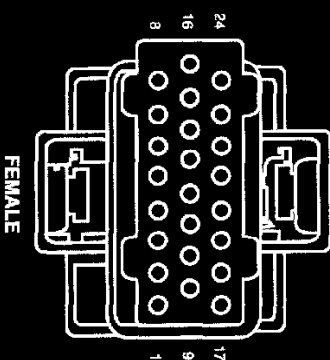
- (1) 57 (BK)
- (2) 787 (PK/BK)
- (3) 57 (BK)
- (4) 16 (RD/LG)
- (5) 359 (GY/RD)
- (6) 643 (RD)
- (7) -
- (8) -

**C1387** (BK)**15525**Speed  
sensor  
assembly  
(7M101)\* 6/0L  
\*\* others

| Pin | Circuit        | Circuit function                                      |
|-----|----------------|-------------------------------------------------------|
| 1   | *371 (PK/WH)   | Reference voltage                                     |
|     | **3087 (DG/VT) | Reference voltage                                     |
| 2   | *570 (BK/WH)   | Ground                                                |
|     | **1704 (VT/LG) | Signal return                                         |
| 3   | 970 (DG/WH)    | Turbine Shaft Speed (TSS) sensor (7H103), signal      |
| 4   | 134 (GY/OG)    | Intermediate Shaft Speed (ISS) sensor (7M101), signal |

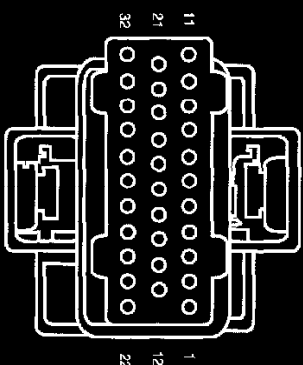
**C1388a** (BK)**12B637**Fuel Injector  
Control Module  
(FICM)

| Pin | Circuit    | Circuit function                    |
|-----|------------|-------------------------------------|
| 1   | 7 (LG/YE)  | Fuel injector 4, open coil, Ground  |
| 2   | 3 (LG/WH)  | Fuel injector 1, open coil, Ground  |
| 3   | 11 (TN/YE) | Fuel injector 7, open coil, Ground  |
| 4   | 15 (RD/YE) | Fuel injector 6, open coil, Ground  |
| 5   | 2 (WH/LB)  | Fuel injector 1, close coil, Ground |
| 6   | 6 (YE/LG)  | Fuel injector 4, close coil, Ground |
| 7   | 14 (BN)    | Fuel injector 6, close coil, Ground |
| 8   | 10 (LG/RD) | Fuel injector 7, close coil, Ground |
| 9   | -          | not used                            |
| 10  | -          | not used                            |
| 11  | -          | not used                            |
| 12  | -          | not used                            |
| 13  | -          | not used                            |
| 14  | -          | not used                            |
| 15  | -          | not used                            |
| 16  | -          | not used                            |
| 17  | 12 (LG/BK) | Fuel injector 7, open coil, Power   |
| 18  | 9 (LG/OG)  | Fuel injector 7, close coil, Power  |
| 19  | 4 (WH/BK)  | Fuel injector 1, open coil, Power   |
| 20  | 1 (DB)     | Fuel injector 1, close coil, Power  |
| 21  | 16 (RD/LG) | Fuel injector 6, open coil, Power   |
| 22  | 13 (RD/BK) | Fuel injector 6, close coil, Power  |
| 23  | 33 (WH/PK) | Fuel injector 4, open coil, Power   |
| 24  | 5 (OG/LB)  | Fuel injector 4, close coil, Power  |

**C1388b** (BK)**12B637**Fuel Injector  
Control Module  
(FICM)

| Pin | Circuit    | Circuit function                    |
|-----|------------|-------------------------------------|
| 1   | 23 (TN/LG) | Fuel injector 5, open coil, Ground  |
| 2   | 19 (LB/RD) | Fuel injector 2, open coil, Ground  |
| 3   | 31 (WH/RD) | Fuel injector 8, open coil, Ground  |
| 4   | 27 (OG/LG) | Fuel injector 3, open coil, Ground  |
| 5   | 22 (LB/BK) | Fuel injector 5, close coil, Ground |
| 6   | 18 (OG/YE) | Fuel injector 2, close coil, Ground |
| 7   | 30 (BK/LG) | Fuel injector 8, close coil, Ground |
| 8   | 26 (WH/VT) | Fuel injector 3, close coil, Ground |
| 9   | -          | not used                            |
| 10  | -          | not used                            |
| 11  | -          | not used                            |
| 12  | -          | not used                            |
| 13  | -          | not used                            |
| 14  | -          | not used                            |
| 15  | -          | not used                            |
| 16  | -          | not used                            |
| 17  | 20 (WH/LB) | Fuel injector 2, open coil, Power   |
| 18  | 17 (WH)    | Fuel injector 2, close coil, Power  |
| 19  | 28 (BK/PK) | Fuel injector 3, open coil, Power   |
| 20  | 25 (DG/VT) | Fuel injector 3, close coil, Power  |
| 21  | 24 (DB/OG) | Fuel injector 5, open coil, Power   |
| 22  | 21 (DG/LG) | Fuel injector 5, close coil, Power  |
| 23  | 32 (RD/LB) | Fuel injector 8, open coil, Power   |
| 24  | 29 (YE/WH) | Fuel injector 8, close coil, Power  |



**C1388c** (BK)**12B637**Fuel Injector  
Control Module  
(FICM)

FEMALE

| Pin | Circuit      | Circuit function                                                            |
|-----|--------------|-----------------------------------------------------------------------------|
| 1   | 574 (BK/PK)  | Ground                                                                      |
| 2   | 574 (BK/PK)  | Ground                                                                      |
| 3   | 574 (BK/PK)  | Ground                                                                      |
| 4   | 876 (Dg/Lg)  | Fuel Injector Control Module (FICM) power relay, switched power             |
| 5   | 54 (LG/YE)   | Fuel delivery command                                                       |
| 6   | —            | not used                                                                    |
| 7   | 1717 (VT/Og) | Voltage supplied in Start and Run (overload protected)                      |
| 8   | 814 (WH/BK)  | Fuel Injector Control Module (FICM) power relay, switched power, fused feed |
| 9   | 878 (PK/YE)  | Powertrain Control Systems, Communication                                   |
| 10  | 56 (DB/Og)   | Cylinder identification                                                     |
| 11  | —            | not used                                                                    |
| 12  | —            | not used                                                                    |
| 13  | —            | not used                                                                    |
| 14  | —            | not used                                                                    |
| 15  | —            | not used                                                                    |
| 16  | —            | not used                                                                    |

| Pin | Circuit      | Circuit function                                                |
|-----|--------------|-----------------------------------------------------------------|
| 17  | —            | not used                                                        |
| 18  | —            | not used                                                        |
| 19  | —            | not used                                                        |
| 20  | —            | not used                                                        |
| 21  | —            | not used                                                        |
| 22  | 574 (BK/PK)  | Ground                                                          |
| 23  | 876 (Dg/Lg)  | Fuel Injector Control Module (FICM) power relay, switched power |
| 24  | 876 (Dg/Lg)  | Fuel Injector Control Module (FICM) power relay, switched power |
| 25  | 876 (Dg/Lg)  | Fuel Injector Control Module (FICM) power relay, switched power |
| 26  | 574 (BK/PK)  | Ground                                                          |
| 27  | 3098 (RD/YE) | Fuel Injector Control Module (FICM) power relay, control        |
| 28  | —            | not used                                                        |
| 29  | —            | not used                                                        |
| 30  | 69 (RD/Lg)   | CAN Bus 2H                                                      |
| 31  | 70 (LB/WH)   | CAN Bus 2L                                                      |
| 32  | 57 (BK)      | Ground                                                          |

**C1389** (BK)  
**12B637**  
EGR valve actuator

**FEMALE**

| Pin | Circuit     | Circuit function                   |
|-----|-------------|------------------------------------|
| A   | 33 (WH/PK)  | EGR valve actuator, control        |
| B   | 359 (GY/RD) | Signal return                      |
| C   | 34 (LB/OG)  | EGR valve actuator, position sense |
| D   | 351 (BN/WH) | Reference voltage                  |
| E   | 361 (RD)    | PCM power relay, switched power    |

**C1390** (BK)  
**12B637**  
Variable  
geometric  
turbo  
actuator

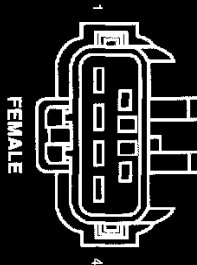
**FEMALE**

| Pin | Circuit    | Circuit function                           |
|-----|------------|--------------------------------------------|
| A   | 41 (BK/LB) | Variable geometric turbo actuator, control |
| B   | 43 (DB)    | Variable geometric turbo actuator, common  |

**C1413** (BK)

**12B637**

Glow plug bank, left

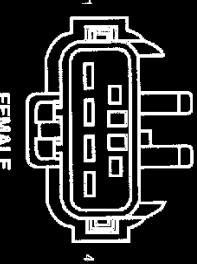


| Pin | Circuit     | Circuit function     |
|-----|-------------|----------------------|
| 1   | 120 (PK/LG) | Glow plug 2, control |
| 2   | 140 (BK/PK) | Glow plug 4, control |
| 3   | 160 (DB/MH) | Glow plug 6, control |
| 4   | 180 (RD)    | Glow plug 8, control |

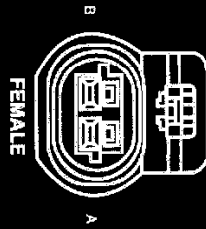
**C1414** (BK)

**12B637**

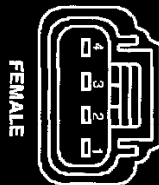
Glow plug bank, right



| Pin | Circuit     | Circuit function     |
|-----|-------------|----------------------|
| 1   | 110 (WH/LG) | Glow plug 1, control |
| 2   | 130 (RD/LG) | Glow plug 3, control |
| 3   | 150 (DG/MH) | Glow plug 5, control |
| 4   | 170 (RD/LB) | Glow plug 7, control |

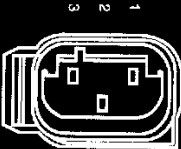
**C1443****12B637**Exhaust Gas  
Restricting  
Temperature  
Sensor  
(EGRT)

| Pin | Circuit      | Circuit function         |
|-----|--------------|--------------------------|
| A   | 359A (GY/RD) | Signal return            |
| B   | 3760 (RD/WH) | Temperature sensor input |

**C1444 (BK)****12B637**Charge Motion  
Control Valve  
(CMCV)

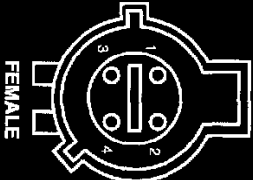
| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power            |
| 2   | 570 (BK/WH) | Ground                                     |
| 3   | 367 (BN)    | Charge Motion Control Valve (CMCV) control |
| 4   | 373 (WH/RD) | Charge Motion Control Valve (CMCV) monitor |

**C1445**  
**14401**  
Brake  
pressure  
transducer



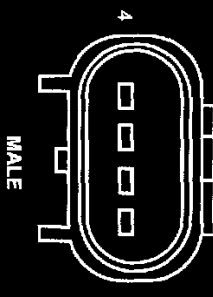
| Pin | Circuit      | Circuit function             |
|-----|--------------|------------------------------|
| 1   | 3600 (RD/WH) | Brake pressure signal return |
| 2   | 3601 (WH/RD) | Brake pressure sensor        |
| 3   | 3602 (TN/YE) | High current sense, return   |

**C1446** (BU)  
**14405**  
Heated Oxygen  
Sensor (HO2S)  
#13 (9G444)



| Pin | Circuit      | Circuit function                                |
|-----|--------------|-------------------------------------------------|
| 1   | 1706 (WH/BK) | Heated Oxygen Sensor (HO2S) #13 (9G444), heater |
| 2   | 391 (RD/YE)  | PCM power relay, switched power                 |
| 3   | 1702 (GY/LB) | Heated Oxygen Sensor (HO2S) #13 (9G444), input  |
| 4   | 1703 (RD/LG) | Signal return                                   |

**C1447** (BK)  
**12B637**  
Dual knock sensor



MALE

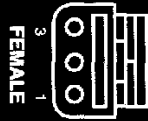
| Pin | Circuit      | Circuit function          |
|-----|--------------|---------------------------|
| 1   | 310 (YE/RD)  | Knock sensor #1, signal + |
| 2   | 1273 (YE)    | Knock sensor #1, signal - |
| 3   | 311 (DG/NT)  | Knock sensor #2, signal + |
| 4   | 1274 (DG/WH) | Knock sensor #2, signal - |

**C2003** (GY)  
**14401**  
Adjustable  
pedal motor  
(9G662)

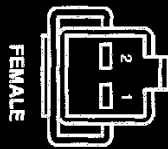


FEMALE

| Pin | Circuit      | Circuit function           |
|-----|--------------|----------------------------|
| 1   | 1489 (LB/BK) | Adjustable pedal motor +/- |
| 2   | 1490 (LB/OG) | Adjustable pedal motor -/+ |

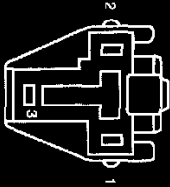
**C2008** (BK)**14401**Brake  
Shift  
Interlock

| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 296 (LB/PK) | Voltage supplied in run (overload protected) |
| 2   | 57 (BK)     | Ground                                       |
| 3   | 810 (RD/LG) | Brake pedal position switch (13480), Input   |

**C2015** (BK)**14401****144005**Parking  
brake switch  
(15A851)

| Pin | Circuit     | Circuit function        |
|-----|-------------|-------------------------|
| 1   | 162 (LG/RD) | Park brake switch input |
| 2   | 676 (PK/OG) | Ground                  |

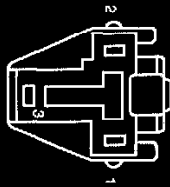
**C2031** (TN)  
**14401**  
Cigar lighter,  
(15055)



FEMALE

| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 40 (LB/WH) | Voltage supplied at all times (overload protected) |
| 2   | -          | not used                                           |
| 3   | 57 (BK)    | Ground                                             |

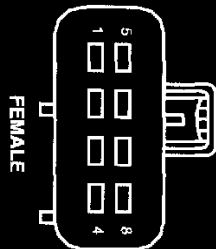
**C2033** (BK)  
**14401**  
Power point,  
instrument  
panel  
(19N236)



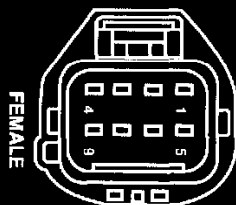
FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1049 (BN/PK) | Voltage supplied at all times (overload protected) |
| 2   | -            | not used                                           |
| 3   | 57 (BK)      | Ground                                             |



**C2035** (BU)**14401**Parking aid  
disable switch  
(15A860)

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 676 (PK/OG)  | Ground                                             |
| 2   | 1435 (DG/VT) | On/Off signal                                      |
| 3   | —            | not used                                           |
| 4   | 57 (BK)      | Ground                                             |
| 5   | —            | not used                                           |
| 6   | 1436 (VT/OG) | On/Off signal, Light emitting diode (LED), control |
| 7   | —            | not used                                           |
| 8   | 19 (LB/RD)   | Instrument illumination, feed                      |

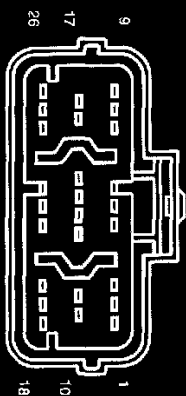
**C2040** (GY)**14401**Accelerator  
pedal  
position  
sensor

| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 1   | 3011 (BK/OG) | Signal return                               |
| 2   | 3835 (YE/WH) | Accelerator pedal position sensor 1, signal |
| 3   | 3014 (BK/WH) | Accelerator pedal position sensor 3, return |
| 4   | —            | not used                                    |
| 5   | 3012 (WH)    | Accelerator pedal position sensor 2, signal |
| 6   | 3013 (GY/BK) | Accelerator pedal position sensor, 3 power  |
| 7   | 3010 (TN)    | Voltage reference                           |
| 8   | 3015 (WH/RD) | Accelerator pedal position sensor 3, signal |

# C2041 (BK)

## 14401

Restraints control module (143321)



| Pin | Circuit      | Circuit function                                                |
|-----|--------------|-----------------------------------------------------------------|
| 1   | -            | not used                                                        |
| 2   | 609 (OG/YE)  | Voltage supplied in run (overload protected)                    |
| 3   | 614 (GY/OG)  | Driver air bag, feed, monitor                                   |
| 4   | 615 (GY/WH)  | Driver air bag, return                                          |
| 5   | 70 (LB/WH)   | ISO Bus                                                         |
| 6   | 607 (LB/OG)  | Passenger air bag, feed, monitor                                |
| 7   | 616 (PK/BK)  | Passenger air bag, return                                       |
| 8   | 1112 (WH/LB) | Passenger Air bag Deactivation (PAD) switch, signal             |
| 9   | 1113 (YE/LG) | Passenger Air bag Deactivation (PAD) switch, indicator, control |
| 10  | -            | not used                                                        |
| 11  | -            | not used                                                        |
| 12  | -            | not used                                                        |
| 13  | 608 (OG/YE)  | Voltage supplied in run, (overload protected)                   |

| Pin | Circuit      | Circuit function                                                   |
|-----|--------------|--------------------------------------------------------------------|
| 14  | -            | not used                                                           |
| 15  | -            | not used                                                           |
| 16  | -            | not used                                                           |
| 17  | 1886 (GY)    | Vehicle Emergency Messaging System (VEMS) airbag activation signal |
| 18  | -            | not used                                                           |
| 19  | -            | not used                                                           |
| 20  | 608 (BK/YE)  | Air bag indicator, control                                         |
| 21  | 649 (BK/OG)  | Air bag, dedicated ground                                          |
| 22  | -            | not used                                                           |
| 23  | -            | not used                                                           |
| 24  | -            | not used                                                           |
| 25  | -            | not used                                                           |
| 26  | 1083 (LB/PK) | Air bag, lone driver                                               |

**C2047**

**14401**

Indicator  
flasher relay  
(13350)

**FEMALE**

| Pin | Circuit     | Circuit function                                        |
|-----|-------------|---------------------------------------------------------|
| 1   | 44 (LB)     | Indicator flasher relay<br>(13350), Turn signal, output |
| 2   | 295 (LB/PK) | Voltage supplied in run (overload protected)            |
| 3   | 10 (LG/RD)  | Voltage supplied at all times<br>(overload protected)   |
| 4   | 385 (MH/RD) | Indicator flasher relay<br>(13350), Hazard, output      |
| 5   | 57 (BK)     | Ground                                                  |

**C2075**

**14401**

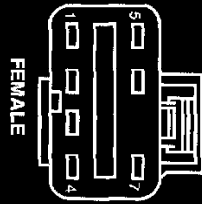
Accessory delay relay

**FEMALE**

| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 30  | -           | Voltage supplied at all times (not overload protected) |
| 85  | 54 (LG/YE)  | Battery saver relay,<br>switched output                |
| 86  | 1332 (LB)   | Accessory delay relay, control                         |
| 87  | 400 (LB/BK) | Accessory delay relay, switched output                 |
| 87A | -           | not used                                               |

**C2089** (BK)**14401**

Adjustable pedal switch

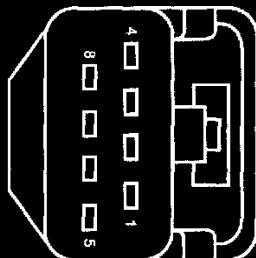


FEMALE

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 1   | 1490 (L/E/OG) | Adjustable pedal motor +/-                         |
| 2   | 1567 (RD/LB)  | Voltage supplied at all times (overload protected) |
| 3   | 57 (BK)       | Ground                                             |
| 4   | 57 (BK)       | Ground                                             |
| 5   | 19 (LB/RD)    | Instrument illumination, feed                      |
| 6   | 57 (BK)       | Ground                                             |
| 7   | 1489 (LB/BK)  | Adjustable pedal motor +/-                         |

**C2093** (BK)**14401**

Remote solenoid assembly



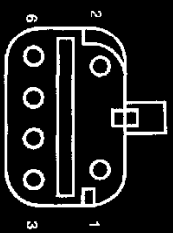
FEMALE

| Pin | Circuit       | Circuit function                 |
|-----|---------------|----------------------------------|
| 1   | 1106 (LGM/H)  | Remote solenoid assembly, common |
| 2   | 1107 (WH)     | Remote solenoid #1, control      |
| 3   | 1108 (TN/W/H) | Remote solenoid #2, control      |
| 4   | 1109 (OG/BK)  | Remote solenoid #3, control      |
| 5   | 1110 (LGM/T)  | Remote solenoid #4, control      |
| 6   | 1111 (VT)     | Remote solenoid #5, control      |
| 7   | -             | not used                         |
| 8   | -             | not used                         |

**C2099** (BK)

**14401**

Passenger Air bag Deactivation (PAD) switch



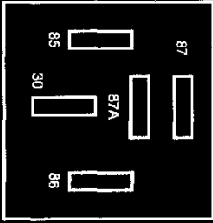
FEMALE

| Pin | Circuit      | Circuit function                                                |
|-----|--------------|-----------------------------------------------------------------|
| 1   | -            | not used                                                        |
| 2   | -            | not used                                                        |
| 3   | 1113 (YEL/G) | Passenger Air bag Deactivation (PAD) switch, Indicator, control |
| 4   | 609 (OG/YE)  | Voltage supplied in run (overload protected)                    |
| 5   | 649 (BK/OG)  | Ground                                                          |
| 6   | 1112 (WH/LB) | Passenger Air bag Deactivation (PAD) switch, signal             |

**C2110**

**14401**

Trailer tow relay, battery charge



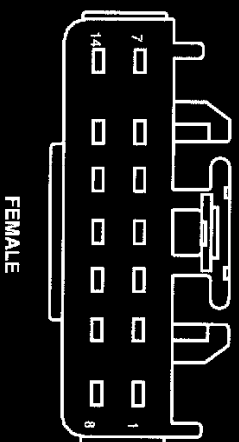
FEMALE

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 30  | -           | Voltage supplied at all times (not overload protected)    |
| 85  | -           | Ground                                                    |
| 86  | 295 (LB/PK) | Voltage supplied in run (overload protected)              |
| 87  | 49 (OG)     | Trailer tow relay, battery charge, switched power, output |
| 87A | -           | not used                                                  |

**C2113a** (GY)

**14A005**

Vehicle Security  
Module (VSM)  
(15K602)

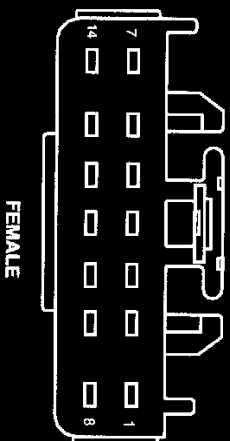


| Pin | Circuit      | Circuit function                              |
|-----|--------------|-----------------------------------------------|
| 1   | 117 (PK/BK)  | Door lock actuator +/–                        |
| 2   | 1210 (BK/WH) | Door unlock, logic ground                     |
| 3   | 1211 (WH/BD) | Door lock, logic ground                       |
| 4   | 765 (YE/BK)  | Door ajar switch, left front (14018), signal  |
| 5   | 761 (GY/BD)  | Door ajar switch, right front (14018), signal |
| 6   | 760 (PK/LB)  | Door ajar switch, right rear, signal          |
| 7   | 163 (BD/OG)  | Driver door unlock relay, switched power      |
| 8   | 118 (PK/OG)  | Door lock actuator +/–                        |
| 9   | –            | not used                                      |
| 10  | –            | not used                                      |
| 11  | 759 (LG/YE)  | Door ajar switch, left rear, signal           |
| 12  | –            | not used                                      |
| 13  | –            | not used                                      |
| 14  | 57 (BK)      | Ground                                        |

**C2113b** (GN)

**14A005**

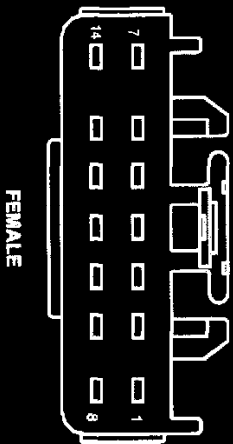
Vehicle Security  
Module (VSM)  
(15K602)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 116 (BD/BK)  | Voltage supplied at all times (overload protected) |
| 2   | 14 (BN)      | Power, Exterior lamps                              |
| 3   | 1306 (PK/WH) | Voltage supplied at all times (overload protected) |
| 4   | 1104 (LB)    | Sunload sensor (19E663), signal                    |
| 5   | 1399 (DB/WH) | Voltage supplied with autolamps on                 |
| 6   | 1 (DB)       | Horn relay, control                                |
| 7   | 15 (BD/YE)   | Power, Hot with Headlamps on                       |
| 8   | 195 (TN/WH)  | Voltage supplied at all times (overload protected) |
| 9   | –            | not used                                           |
| 10  | –            | not used                                           |
| 11  | –            | not used                                           |
| 12  | –            | not used                                           |
| 13  | –            | not used                                           |
| 14  | 196 (DB/OG)  | Voltage supplied at all times (overload protected) |

**C2113c** (BU)  
**13A005**

Vehicle Security  
Module (VSM)  
(15K602)

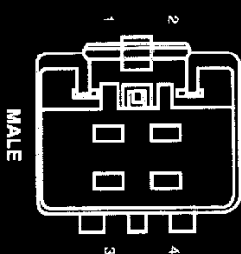
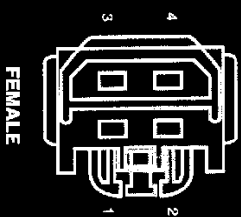


| Pin | Circuit     | Circuit function                  |
|-----|-------------|-----------------------------------|
| 1   | -           | not used                          |
| 2   | 121 (YE/BK) | Key pad switch, circuit A, output |
| 3   | 123 (RD)    | Key pad switch, circuit C, output |
| 4   | 124 (BN)    | Key pad switch, common            |
| 5   | 693 (OG)    | UBP- Diagnostics                  |
| 6   | 66 (LB)     | Key pad switch, illumination      |
| 7   | -           | not used                          |
| 8   | -           | not used                          |
| 9   | 122 (YE)    | Key pad switch, circuit B, output |
| 10  | -           | not used                          |
| 11  | -           | not used                          |
| 12  | -           | not used                          |
| 13  | -           | not used                          |
| 14  | -           | not used                          |

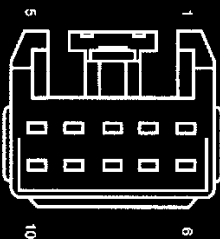
**C2142a** (GY)

14A01

14A348



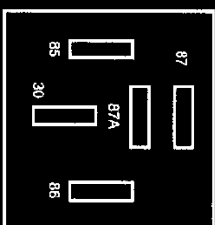
- (1) 50 (RD)
- (2) 511 (LG)
- (3) 43 (DB)
- (4) 206 (WH)

**C2142b** (G7)**14401**Trailer electronic  
brake controller

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1792 (PK)    | Voltage supplied at all times (overload protected) |
| 2   | -            | not used                                           |
| 3   | 298 (VT/OG)  | Voltage supplied in run (overload protected)       |
| 4   | -            | not used                                           |
| 5   | -            | not used                                           |
| 6   | 1908 (WH)    | High speed CAN +                                   |
| 7   | 1909 (BK)    | High speed CAN -                                   |
| 8   | 3600 (RD/WH) | Brake pressure signal return                       |
| 9   | 3601 (WH/RD) | Brake pressure sensor 5 volt signal                |
| 10  | 3602 (TN/YE) | High current sense return                          |

**C2160****12A581**

PCM power relay

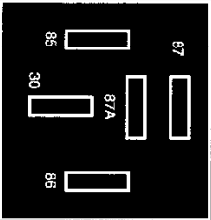


FEMALE

| Pin | Circuit    | Circuit function                                       |
|-----|------------|--------------------------------------------------------|
| 30  | -          | Voltage supplied at all times (not overload protected) |
| 85  | -          | Ground                                                 |
| 86  | 16 (RD/LG) | Voltage supplied in Start and Run (overload protected) |
| 87  | -          | PCM power relay, switched power output                 |
| 87A | -          | not used                                               |



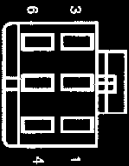
**C2163**  
**12A581**  
Starter relay



FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 30  | -           | Voltage supplied at all times (overload protected) |
| 85  | 33 (WH/PK)  | Voltage supplied in Start (overload protected)     |
| 86  | 328 (PK)    | Starter relay, control                             |
| 87  | 113 (YE/LB) | Starter relay (11450), switched power, output      |
| 87A | -           | not used                                           |

**C2194** (GY)  
**14401**  
Fuel tank selector switch (9A050)



FEMALE

| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 789 (BN/WH)  | Fuel tank selector valve +/-                     |
| 2   | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected) |
| 3   | 786 (RD)     | Switched ground                                  |
| 4   | 786 (RD)     | Fuel tank selector valve +/-                     |
| 5   | 57 (BK)      | Ground                                           |
| 6   | 789 (BN/WH)  | Fuel tank selector valve +/-                     |

**C2207** (GY)

**14401**

Inertia Fuel  
Shutoff (IFS)  
(9D362)



**FEMALE**

| Pin | Circuit     | Circuit function                        |
|-----|-------------|-----------------------------------------|
| 1   | 787 (PK/BK) | Fuel pump, Power                        |
| 2   | 238 (DG/YE) | Fuel pump relay, switched power, output |
| 3   | -           | not used                                |

**C2255** (BK)

**14401**

Tow/Haul switch



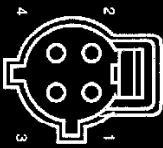
**MALE**

| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 224 (TN/WH) | Tow/Haul switch, signal                      |
| 2   | 296 (WH/PK) | Voltage supplied in run (overload protected) |
| 3   | -           | not used                                     |

**C2256** (BK)

**14401**

Barometric  
Absolute  
Pressure  
(BAP) switch



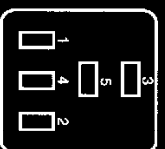
**FEMALE**

| Pin | Circuit      | Circuit function  |
|-----|--------------|-------------------|
| 1   | 3011 (BK/OG) | Signal return     |
| 2   | 3010 (TN)    | Reference voltage |
| 3   | 356 (DB/LG)  | Sensor signal     |
| 4   | -            | not used          |

**C2257**

**12A581**

Reversing lamp relay

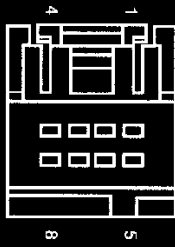


**FEMALE**

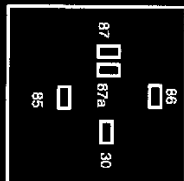
| Pin | Circuit | Circuit function                                   |
|-----|---------|----------------------------------------------------|
| 1   | -       | Reversing lamps relay, control                     |
| 2   | -       | Ground                                             |
| 3   | -       | Voltage supplied at all times (overload protected) |
| 4   | -       | not used                                           |
| 5   | -       | Reversing lamps relay, switched output             |

**C2300** (GV)**14A303**

Uplifter switch



| Pin | Circuit     | Circuit function                    |
|-----|-------------|-------------------------------------|
| 1   | 156 (GY/OG) | Relay control circuit               |
| 2   | 19 (LB/RD)  | Instrument illumination, feed       |
| 3   | 57 (BK)     | Ground                              |
| 4   | -           | not used                            |
| 5   | 155 (GY/RD) | Relay control circuit               |
| 6   | 154 (VT/LG) | Relay control circuit               |
| 7   | 153 (PK/YE) | Relay control circuit               |
| 8   | 296 (WH/VT) | Voltage in Run (overload protected) |

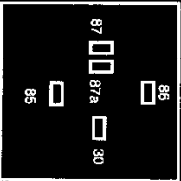
**C2301****14A303**Uplifter relay  
#1

| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 30  | 1448 (OG/RD) | Voltage supplied at all times (overload protected)         |
| 85  | 57 (BK)      | Ground                                                     |
| 86  | 153 (PK/YE)  | Relay control circuit                                      |
| 87  | 1936 (OG/LG) | Voltage supplied when relay energized (overload protected) |
| 87a | -            | not used                                                   |

**C2302**

**14A303**

Uplifter relay #2



| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 30  | 1445 (RD/LG) | Voltage supplied at all times (overload protected)         |
| 85  | 57 (BK)      | Ground                                                     |
| 86  | 154 (PK/LG)  | Relay control circuit                                      |
| 87  | 1933 (OG)    | Voltage supplied when relay energized (overload protected) |
| 87a | —            | not used                                                   |

**C2303**

**14A303**

Uplifter relay #3



| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 155 (GY/RD)  | Relay control circuit                                      |
| 2   | 57 (BK)      | Ground                                                     |
| 3   | 1446 (RD/LB) | Voltage supplied at all times (overload protected)         |
| 4   | —            | not used                                                   |
| 5   | 1934 (OG/YE) | Voltage supplied when relay energized (overload protected) |

**C2304**  
**14A303**  
Lift/lift relay #4

FEMALE

| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 57 (BK)      | Ground                                                     |
| 2   | 156 (GY/OG)  | Relay control circuit                                      |
| 3   | 1447 (RD)    | Voltage supplied at all times (overload protected)         |
| 4   | -            | not used                                                   |
| 5   | 1935 (OG/LB) | Voltage supplied when relay energized (overload protected) |

**C3007** (GV)

**14B084**  
FEMALE

FEMALE

**14A005**  
MALE

MALE

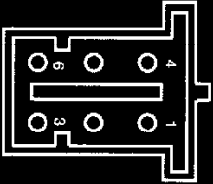
(1) 566 (DG)

(2) 85 (BN/LB)

(3) 57 (BK)

(4) -

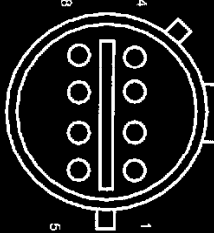
**C3015**  
**14B084**  
Power seat  
motor  
assembly, right



MALE

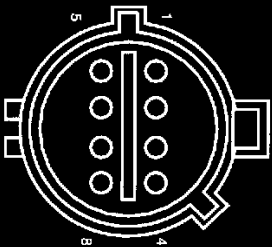
| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 987 (RD/WH) | Fwd/Rwd motor, Rearward  |
| 2   | 985 (RD/LB) | Rear height motor, Down  |
| 3   | 984 (YE/LB) | Rear height motor, Up    |
| 4   | 986 (YE/WH) | Fwd/Rwd motor, Forward   |
| 5   | 988 (YE/LG) | Front height motor, Up   |
| 6   | 989 (RD/LG) | Front height motor, Down |

**C3049 (G)**  
**14A005**



MALE

**14B084**



FEMALE

(1) 1256 (WH/RTD)

(2) B6 (BN/LB)

(3) 506 (DG)

(4) 57 (BK)

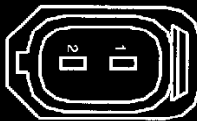
(5) 1153 (RD/BK)

(6) 295 (LB/PK)

(7) -

(8) -

**C3084**  
**19F504**  
Running  
board lamp,  
left front



FEMALE

| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 57 (BK)    | Ground                                      |
| 2   | 53 (BK/LB) | Interior lamp relay, switched power, output |

**C3085**  
**19F504**  
Running  
board lamp,  
left rear



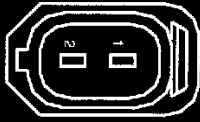
FEMALE

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 57 (BK)    | Ground                                |
| 2   | 53 (BK/LB) | Interior lamps relay, switched output |



**C3086**  
**19F504**

Running  
board lamp,  
right front



FEMALE

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 57 (BK)    | Ground                                |
| 2   | 53 (BK/LB) | Interior lamps relay, switched output |

**C3087**  
**19F504**

Running  
board lamp,  
left rear



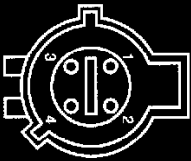
FEMALE

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 57 (BK)    | Ground                                |
| 2   | 53 (BK/LB) | Interior lamps relay, switched output |

**C3094** (BK)

**14405**

Fuel sender, primary



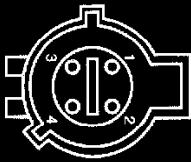
FEMALE

| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | -           | not used            |
| 2   | 675 (YE/LB) | Reference voltage   |
| 3   | -           | not used            |
| 4   | 396 (BK/OG) | Fuel sender, return |

**C3095** (BK)

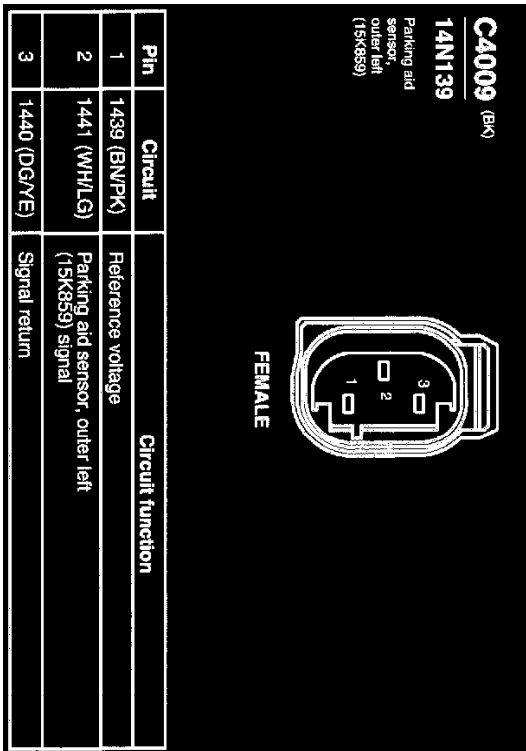
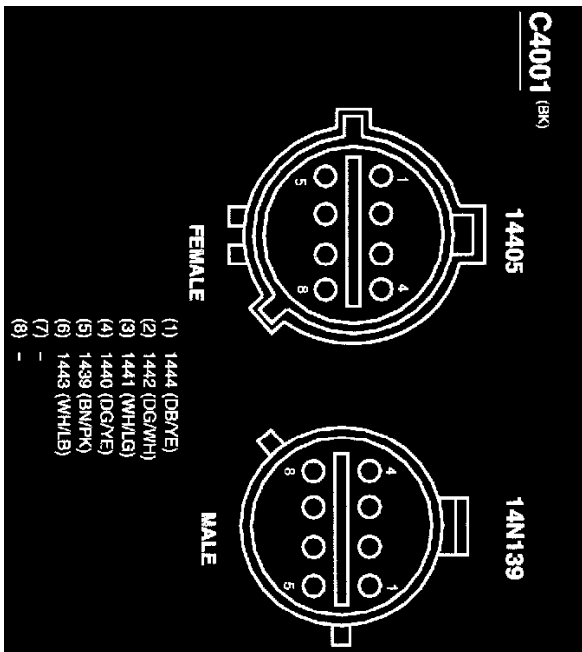
**14405**

Fuel sender, secondary



FEMALE

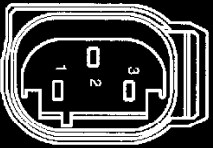
| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | -           | not used            |
| 2   | 29 (YEM/H)  | Reference voltage   |
| 3   | -           | not used            |
| 4   | 396 (BK/OG) | Fuel sender, return |



**C4010** (BK)

**14N139**

Parking aid sensor, inner left (15K859)



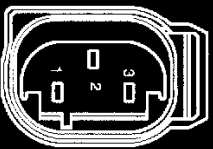
FEMALE

| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 1439 (BN/PK) | Reference voltage                              |
| 2   | 1442 (DG/WH) | Parking aid sensor, inner left (15K859) signal |
| 3   | 1440 (DG/YE) | Signal return                                  |

**C4011** (BK)

**14N139**

Parking aid sensor, outer right (15K859)



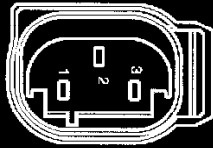
FEMALE

| Pin | Circuit      | Circuit function                                |
|-----|--------------|-------------------------------------------------|
| 1   | 1439 (BN/PK) | Reference voltage                               |
| 2   | 1444 (DB/YE) | Parking aid sensor, outer right (15K859) signal |
| 3   | 1440 (DG/YE) | Signal return                                   |

**C4012** (BK)

**14N139**

Parking aid sensor, inner right (15K859)



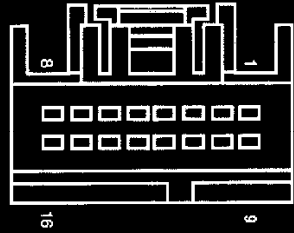
FEMALE

| Pin | Circuit      | Circuit function                                |
|-----|--------------|-------------------------------------------------|
| 1   | 1439 (BN/PK) | Reference voltage                               |
| 2   | 1443 (WH/LB) | Parking aid sensor, inner right (15K859) signal |
| 3   | 1440 (DG/YE) | Signal return                                   |

**C4014** (GY)

**15K587**

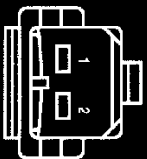
Parking Aid Module (PAM) (15T850)



FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 295 (LB/PK)  | Voltage supplied in run (overload protected)       |
| 2   | 1437 (BK/PK) | Parking aid speaker -                              |
| 3   | 140 (BK/PK)  | Reversing lamps relay, switched output             |
| 4   | 57 (BK)      | Ground                                             |
| 5   | 1436 (VT/OG) | On/Off signal, Light emitting diode (LED), control |
| 6   | 1438 (DG)    | Parking aid speaker +                              |
| 7   | -            | not used                                           |
| 8   | 70 (LB/WH)   | ISO Bus                                            |
| 9   | 1439 (BN/PK) | Reference voltage                                  |
| 10  | -            | not used                                           |
| 11  | 1435 (DG/VT) | On/Off signal                                      |
| 12  | 1440 (DG/YE) | Signal return                                      |
| 13  | 1443 (WH/LB) | Parking aid sensor, inner right (15K859) signal    |
| 14  | 1442 (DG/WH) | Parking aid sensor, inner left (15K859) signal     |
| 15  | 1441 (WH/LG) | Parking aid sensor, outer left (15K859) signal     |
| 16  | 1444 (DB/YE) | Parking aid sensor, outer right (15K859) signal    |

**C4015** (WH)  
**14A504**  
**15K867**  
Parking  
aid  
speaker



**FEMALE**

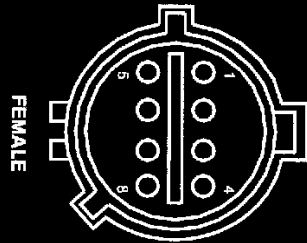
| Pin | Circuit      | Circuit function      |
|-----|--------------|-----------------------|
| 1   | 1438 (DG)    | Parking aid speaker + |
| 2   | 1437 (BK/PK) | Parking aid speaker - |

**C4032** (BN)  
**13A409**  
Park/stop/  
turn lamp,  
right rear

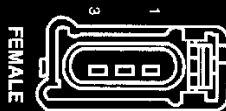


**FEMALE**

| Pin | Circuit   | Circuit function             |
|-----|-----------|------------------------------|
| 1   | 57 (BK)   | Ground                       |
| 2   | 14 (BN)   | Power Exterior lamps         |
| 3   | 5 (OG/LB) | Turn lamps, feed, right rear |

**C4033** (BK)**14405**Fuel tank unit  
(9H307)

| Pin | Circuit      | Circuit function                                        |
|-----|--------------|---------------------------------------------------------|
| 1   | -            | not used                                                |
| 2   | 1703 (RD/LG) | Signal return                                           |
| 3   | 791 (RD/PK)  | Fuel tank pressure transducer sensor (9C398) signal     |
| 4   | 3074 (BK/OG) | Fuel tank pressure transducer sensor, reference voltage |
| 5   | 29 (YE/WH)   | Fuel sender, signal                                     |
| 6   | 866 (WH)     | Inertia Fuel Shutoff (IFS) switch, ground               |
| 7   | 922 (WH/RD)  | Fuel pump, Power                                        |
| 8   | 396 (BK/OG)  | Fuel sender, return                                     |

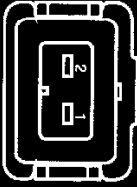
**C4035** (BN)**13A409**Park/  
stop/turn  
lamp, left  
rear

| Pin | Circuit   | Circuit function            |
|-----|-----------|-----------------------------|
| 1   | 57 (BK)   | Ground                      |
| 2   | 14 (BN)   | Power Exterior lamps        |
| 3   | 9 (LG/OG) | Turn lamps, feed, left rear |

**C4094** (BK)

**13A409**

Side lamp 1,  
LH rear



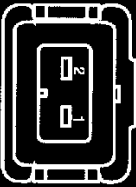
FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4095** (BK)

**13A409**

Side lamp 2,  
LH rear



FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |



**C4096** (BK)

**13A409**

Side lamp 1,  
RH rear



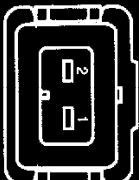
FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4097** (BK)

**13A409**

Side lamp 2,  
RH rear



FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4098** (BK)  
**14405**  
 Trailer tow connector, 4-pin

MALE / FEMALE

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 64 (DG)     | Trailer tow relay, right turn, switched power   |
| 2   | 52 (YE)     | Trailer tow relay, left turn, switched power    |
| 3   | 962 (BN/WH) | Trailer tow relay, parking lamp, switched power |
| 4   | 206 (WH)    | Ground                                          |

**C4099** (BK)  
**14405**  
 Trailer tow connector, 7-pin

FEMALE

| Pin | Circuit     | Circuit function                                  |
|-----|-------------|---------------------------------------------------|
| 1   | 52 (YE)     | Trailer tow relay, left turn, switched power      |
| 2   | 206 (WH)    | Ground                                            |
| 3   | 43 (DB)     | not used                                          |
| 4   | 64 (DG)     | Trailer tow relay, right turn, switched power     |
| 5   | 49 (OG)     | Trailer tow relay, battery charge, switched power |
| 6   | 962 (BN/WH) | Trailer tow relay, parking lamp, switched power   |
| 7   | 963 (BK/LG) | Trailer tow relay, reversing lamp, switched power |

**C4132** (GV)  
**14405**

Fuel tank  
selector valve



| Pin | Circuit     | Circuit function             |
|-----|-------------|------------------------------|
| 1   | -           | not used                     |
| 2   | 786 (RD)    | Fuel tank selector valve +/- |
| 3   | 789 (BN/WH) | Fuel tank selector valve +/- |
| 4   | 57 (BK)     | Ground                       |
| 5   | 57 (BK)     | Ground                       |
| 6   | 57 (BK)     | Ground                       |

**C9013** (BK)  
**17C712**

Overhead Console



| Pin | Circuit      | Circuit function                      |
|-----|--------------|---------------------------------------|
| 1   | -            | not used                              |
| 2   | -            | not used                              |
| 3   | -            | not used                              |
| 4   | 19 (LB/RD)   | Instrument illumination, feed         |
| 5   | -            | not used                              |
| 6   | -            | not used                              |
| 7   | 53 (BK/LB)   | Interior lamps relay, switched output |
| 8   | 54 (LG/YE)   | Battery saver relay, switched output  |
| 9   | 57 (BK)      | Ground                                |
| 10  | 1173 (BN/OG) | Roof operating panel, common          |
| 11  | 1174 (WH/RD) | Roof operating panel, Open circuit    |
| 12  | 1175 (TN/RD) | Roof operating panel, Close circuit   |
| 13  | -            | not used                              |
| 14  | -            | not used                              |
| 15  | -            | not used                              |
| 16  | -            | not used                              |

**C2300** (GV)  
**14A303**  
Uplifter switch

Pinout diagram for C2300 14A303 Uplifter switch. The diagram shows a 4-pin connector with pins 1, 2, 3, and 4. Pin 1 is connected to a relay coil. Pin 2 is connected to a relay contact. Pin 3 is connected to ground. Pin 4 is not connected.

| Pin | Circuit     | Circuit function                    |
|-----|-------------|-------------------------------------|
| 1   | 156 (GY/OG) | Relay control circuit               |
| 2   | 19 (LB/RD)  | Instrument illumination, feed       |
| 3   | 57 (BK)     | Ground                              |
| 4   | -           | not used                            |
| 5   | 156 (GY/RD) | Relay control circuit               |
| 6   | 154 (VT/LG) | Relay control circuit               |
| 7   | 153 (PK/YE) | Relay control circuit               |
| 8   | 296 (WH/VT) | Voltage in Run (overload protected) |

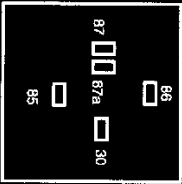
**C258**  
**14401**  
Uplifter relay

Pinout diagram for C258 14401 Uplifter relay. The diagram shows a 4-pin connector with pins 30, 87A, 86, and 87. Pin 30 is connected to a relay coil. Pin 87A is connected to a relay contact. Pin 86 is connected to ground. Pin 87 is not connected.

**FEMALE**

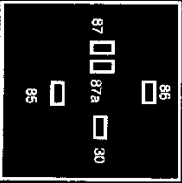
| Pin | Circuit | Circuit function                                   |
|-----|---------|----------------------------------------------------|
| 30  | -       | Voltage supplied at all times (overload protected) |
| 85  | -       | Voltage in Run (overload protected)                |
| 86  | -       | Ground                                             |
| 87  | -       | Voltage supplied at all times (overload protected) |
| 87A | -       | not used                                           |

**C2301**  
**14A303**  
Uplifter relay #1



| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 30  | 144B (OG/RD) | Voltage supplied at all times (overload protected)         |
| 85  | 57 (BK)      | Ground                                                     |
| 86  | 153 (PK/YE)  | Relay control circuit                                      |
| 87  | 1936 (OG/LG) | Voltage supplied when relay energized (overload protected) |
| 87a | —            | not used                                                   |

**C2302**  
**14A303**  
Uplifter relay #2



| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 30  | 1445 (RD/LG) | Voltage supplied at all times (overload protected)         |
| 85  | 57 (BK)      | Ground                                                     |
| 86  | 154 (PK/LG)  | Relay control circuit                                      |
| 87  | 1933 (OG)    | Voltage supplied when relay energized (overload protected) |
| 87a | —            | not used                                                   |

**C2303**  
**14A303**  
Upfitter relay #3

2 4 1  
□ □ □  
5  
□  
3

FEMALE

| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 155 (GY/RD)  | Relay control circuit                                      |
| 2   | 57 (BK)      | Ground                                                     |
| 3   | 1446 (RD/LB) | Voltage supplied at all times (overload protected)         |
| 4   | —            | not used                                                   |
| 5   | 1934 (OG/YE) | Voltage supplied when relay energized (overload protected) |

**C2304**  
**14A303**  
Upfitter relay #4

2 4 1  
□ □ □  
5  
□  
3

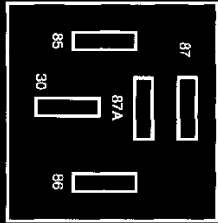
FEMALE

| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 57 (BK)      | Ground                                                     |
| 2   | 156 (GY/OG)  | Relay control circuit                                      |
| 3   | 1447 (RD)    | Voltage supplied at all times (overload protected)         |
| 4   | —            | not used                                                   |
| 5   | 1935 (OG/LB) | Voltage supplied when relay energized (overload protected) |

**C2075**

**14401**

Accessory delay relay



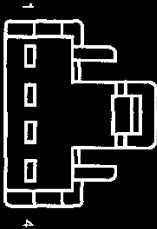
**FEMALE**

| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 30  | -           | Voltage supplied at all times (not overload protected) |
| 85  | 54 (LG/YE)  | Battery saver relay, switched output                   |
| 86  | 1332 (LB)   | Accessory delay relay, control                         |
| 87  | 400 (LB/BK) | Accessory delay relay, switched output                 |
| 87A | -           | not used                                               |

**C909 (BK)**

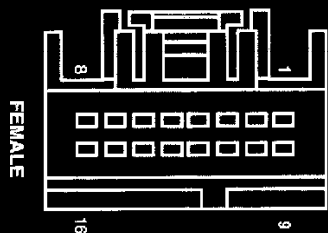
**17C712**

Compass sensor module



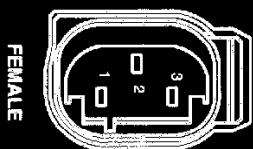
| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 676 (PK/OG) | Ground                                       |
| 2   | 640 (RD/YE) | Voltage supplied in Run (overload protected) |
| 3   | 703 (WH/OG) | Compass data -                               |
| 4   | 702 (WH/BK) | Compass data +                               |

**C4014** (GY)  
**15K587**  
Parking Aid  
Module  
(PAM)  
(15T850)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 295 (LB/PK)  | Voltage supplied in run (overload protected)       |
| 2   | 1437 (BK/PK) | Parking aid speaker -                              |
| 3   | 140 (BK/PK)  | Reversing lamps relay, switched output             |
| 4   | 57 (BK)      | Ground                                             |
| 5   | 1436 (VT/OG) | On/Off signal, Light emitting diode (LED), control |
| 6   | 1438 (DG)    | Parking aid speaker +                              |
| 7   | -            | not used                                           |
| 8   | 70 (LB/MH)   | ISO Bus                                            |
| 9   | 1439 (BN/PK) | Reference voltage                                  |
| 10  | -            | not used                                           |
| 11  | 1435 (DG/VT) | On/Off signal                                      |
| 12  | 1440 (DG/YE) | Signal return                                      |
| 13  | 1443 (WH/LB) | Parking aid sensor, inner right (15K859) signal    |
| 14  | 1442 (DG/MH) | Parking aid sensor, inner left (15K859) signal     |
| 15  | 1441 (WH/LG) | Parking aid sensor, outer left (15K859) signal     |
| 16  | 1444 (DB/YE) | Parking aid sensor, outer right (15K859) signal    |

**C4009** (BK)  
**14N139**  
Parking aid  
sensor,  
outer left  
(15K859)



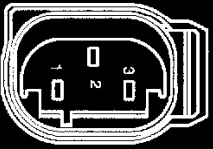
| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 1439 (BN/PK) | Reference voltage                              |
| 2   | 1441 (WH/LG) | Parking aid sensor, outer left (15K859) signal |
| 3   | 1440 (DG/YE) | Signal return                                  |



**C4011** (BK)

**14N139**

Parking aid sensor, outer right (15K859)



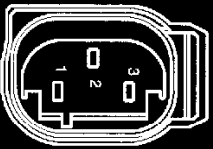
FEMALE

| Pin | Circuit      | Circuit function                                |
|-----|--------------|-------------------------------------------------|
| 1   | 1439 (BN/PK) | Reference voltage                               |
| 2   | 1444 (DB/YE) | Parking aid sensor, outer right (15K859) signal |
| 3   | 1440 (DG/YE) | Signal return                                   |

**C4010** (BK)

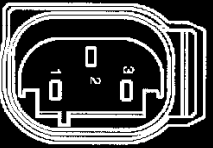
**14N139**

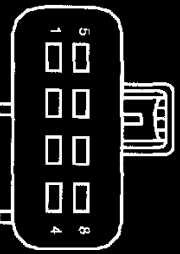
Parking aid sensor, inner left (15K859)



FEMALE

| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 1439 (BN/PK) | Reference voltage                              |
| 2   | 1442 (DG/WH) | Parking aid sensor, inner left (15K859) signal |
| 3   | 1440 (DG/YE) | Signal return                                  |

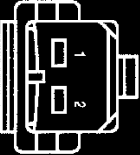
| <b>C4012</b> (BK)                                                                  |              |                                                 |
|------------------------------------------------------------------------------------|--------------|-------------------------------------------------|
| <b>14N139</b>                                                                      |              |                                                 |
| Parking aid sensor, inner right (15K859)                                           |              |                                                 |
|  |              |                                                 |
| FEMALE                                                                             |              |                                                 |
| Pin                                                                                | Circuit      | Circuit function                                |
| 1                                                                                  | 1439 (BN/PK) | Reference voltage                               |
| 2                                                                                  | 1443 (WH/LB) | Parking aid sensor, inner right (15K859) signal |
| 3                                                                                  | 1440 (DG/YE) | Signal return                                   |

| <b>C2035</b> (BU)                                                                    |              |                                                    |
|--------------------------------------------------------------------------------------|--------------|----------------------------------------------------|
| <b>14401</b>                                                                         |              |                                                    |
| Parking aid disable switch (15A860)                                                  |              |                                                    |
|  |              |                                                    |
| FEMALE                                                                               |              |                                                    |
| Pin                                                                                  | Circuit      | Circuit function                                   |
| 1                                                                                    | 676 (PK/OG)  | Ground                                             |
| 2                                                                                    | 1435 (DG/VT) | On/Off signal                                      |
| 3                                                                                    | —            | not used                                           |
| 4                                                                                    | 57 (BK)      | Ground                                             |
| 5                                                                                    | —            | not used                                           |
| 6                                                                                    | 1436 (VT/OG) | On/Off signal, Light emitting diode (LED), control |
| 7                                                                                    | —            | not used                                           |
| 8                                                                                    | 19 (LB/RD)   | Instrument illumination, feed                      |

**C4015** (WH)

**14A504**  
**15K867**

Parking  
aid  
speaker



**FEMALE**

| Pin | Circuit      | Circuit function      |
|-----|--------------|-----------------------|
| 1   | 1438 (DG)    | Parking aid speaker + |
| 2   | 1437 (BK/PK) | Parking aid speaker - |

**C2003** (GY)

**14401**

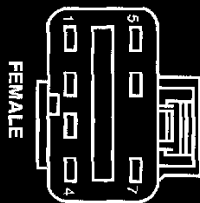
Adjustable  
pedal motor  
(9G662)



**FEMALE**

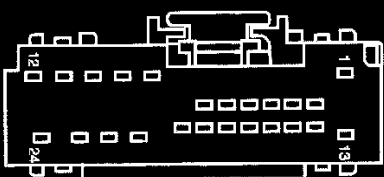
| Pin | Circuit      | Circuit function           |
|-----|--------------|----------------------------|
| 1   | 1489 (LB/BK) | Adjustable pedal motor +/- |
| 2   | 1490 (LB/OG) | Adjustable pedal motor -/+ |

## Adjustable pedal switch



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1490 (LB/OG) | Adjustable pedal motor -/+                         |
| 2   | 1567 (RD/LB) | Voltage supplied at all times (overload protected) |
| 3   | 57 (BK)      | Ground                                             |
| 4   | 57 (BK)      | Ground                                             |
| 5   | 19 (LB/RD)   | Instrument illumination, feed                      |
| 6   | 57 (BK)      | Ground                                             |
| 7   | 1489 (LB/BK) | Adjustable pedal motor +/-                         |

## Radio (18806)



**with steering wheel controls**

| Pin | Circuit        | Circuit function                                   |
|-----|----------------|----------------------------------------------------|
| 1   | 797 (L/G/V/T)  | Voltage supplied at all times (overload protected) |
| 2   | *194 (P/K)     | Accessory delay relay, switched output             |
| 3   | 19 (L/B/R/D)   | Instrument illumination, feed                      |
| 4   | 57 (B/K)       | Ground                                             |
| 5   | —              | not used                                           |
| 6   | —              | not used                                           |
| 7   | —              | not used                                           |
| 8   | 804 (O/G/L/G)  | Speaker, left front (18808) +                      |
| 9   | 800 (G/Y/L/B)  | Rear Integrated Control Panel (RICP) (19980) +     |
| 10  | 802 (O/G/R/D)  | Rear Integrated Control Panel (RICP) (19980) +     |
| 11  | 805 (W/H/L/G)  | Speaker, right front (18808) +                     |
| 12  | 811 (D/G/O/G)  | Speaker, right front (18808) —                     |
| 13  | 694 (B/K/L/G)  | Ground                                             |
| 14  | *679 (G/Y/B/K) | Vehicle speed sensor (VSS), signal                 |
| 15  | 1000 (R/D/B/K) | Voltage supplied in Start (overload protected)     |
| 16  | —              | not used                                           |
| 17  | —              | not used                                           |
| 18  | *595 (L/B/R/D) | Auxiliary audio controls, steering wheel           |
| 19  | —              | not used                                           |
| 20  | —              | not used                                           |
| 21  | 813 (L/B/W/H)  | Speaker, left front (18808) —                      |
| 22  | 801 (T/N/Y/E)  | Speaker, left rear (18808) —                       |
| 23  | 803 (B/N/P/K)  | Speaker, right rear (18808) —                      |
| 24  | —              | not used                                           |

**C802** (BK)

**14A005**

Speaker,  
right rear  
(18808)



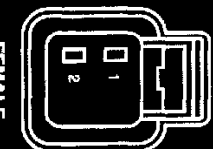
FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 802 (OG/RO) | Speaker, right rear (18808) + |
| 2   | 803 (BN/PK) | Speaker, right rear (18808) - |

**C612** (BK)

**14A005**

Speaker,  
right front  
(18808)



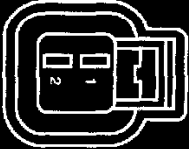
FEMALE

| Pin | Circuit     | Circuit function               |
|-----|-------------|--------------------------------|
| 1   | 805 (WH/LG) | Speaker, right front (18808) + |
| 2   | 811 (DG/OG) | Speaker, right front (18808) - |

**C523** (BK)

**14A005**

Speaker, left front (18808)



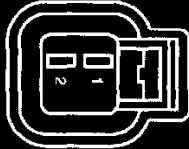
FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 804 (OG/LG) | Speaker, left front (18808) + |
| 2   | 813 (LB/WH) | Speaker, left front (18808) - |

**C702** (BK)

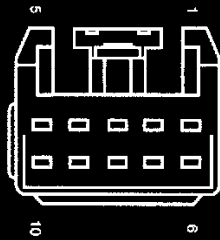
**14A005**

Speaker, left rear (18808)

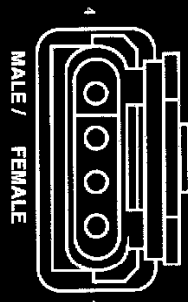


FEMALE

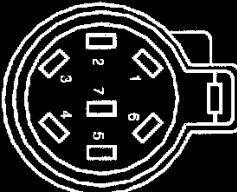
| Pin | Circuit     | Circuit function             |
|-----|-------------|------------------------------|
| 1   | 800 (GY/LB) | Speaker, left rear (18808) + |
| 2   | 801 (TN/YE) | Speaker, left rear (18808) - |

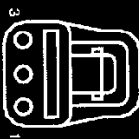
**C2142b** (G7)**14401**Trailer electronic  
brake controller

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1792 (PK)    | Voltage supplied at all times (overload protected) |
| 2   | —            | not used                                           |
| 3   | 298 (VT/OG)  | Voltage supplied in run (overload protected)       |
| 4   | —            | not used                                           |
| 5   | —            | not used                                           |
| 6   | 1908 (WH)    | High speed CAN +                                   |
| 7   | 1909 (BK)    | High speed CAN -                                   |
| 8   | 3600 (RD/WH) | Brake pressure signal return                       |
| 9   | 3601 (WH/RD) | Brake pressure sensor 5 volt signal                |
| 10  | 3602 (TN/YE) | High current sense return                          |

**C4098** (BK)**14405**Trailer tow  
connector,  
4-pin

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 64 (DG)     | Trailer tow relay, right turn, switched power   |
| 2   | 52 (YE)     | Trailer tow relay, left turn, switched power    |
| 3   | 962 (BN/WH) | Trailer tow relay, parking lamp, switched power |
| 4   | 206 (WH)    | Ground                                          |

| <b>C4099</b> (BK)<br><b>14405</b><br>Trailer tow<br>connector,<br>7-pin            |             |                                                   |
|------------------------------------------------------------------------------------|-------------|---------------------------------------------------|
|  |             |                                                   |
| <b>FEMALE</b>                                                                      |             |                                                   |
| Pin                                                                                | Circuit     | Circuit function                                  |
| 1                                                                                  | 52 (YE)     | Trailer tow relay, left turn, switched power      |
| 2                                                                                  | 206 (WH)    | Ground                                            |
| 3                                                                                  | 43 (DB)     | not used                                          |
| 4                                                                                  | 64 (DG)     | Trailer tow relay, right turn, switched power     |
| 5                                                                                  | 49 (OG)     | Trailer tow relay, battery charge, switched power |
| 6                                                                                  | 962 (BN/WH) | Trailer tow relay, parking lamp, switched power   |
| 7                                                                                  | 963 (BK/LG) | Trailer tow relay, reversing lamp, switched power |

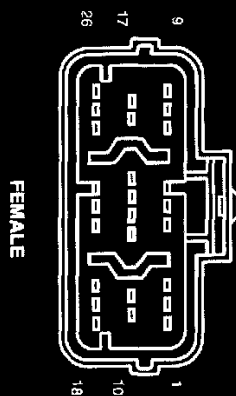
| <b>C256</b> (BK)<br><b>14401</b><br>Passenger air bag<br>module (1504AA74)          |             |                                  |
|-------------------------------------------------------------------------------------|-------------|----------------------------------|
|  |             |                                  |
| <b>FEMALE</b>                                                                       |             |                                  |
| Pin                                                                                 | Circuit     | Circuit function                 |
| 1                                                                                   | 616 (PK/BK) | Passenger air bag, return        |
| 2                                                                                   | -           | not used                         |
| 3                                                                                   | 607 (LB/OG) | Passenger air bag, feed, monitor |



**C2041** (BK)

**14401**

Restraints control  
module (143321)



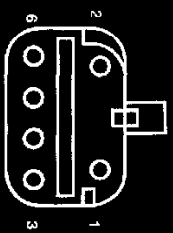
| Pin | Circuit      | Circuit function                                                |
|-----|--------------|-----------------------------------------------------------------|
| 1   | -            | not used                                                        |
| 2   | 609 (OG/YE)  | Voltage supplied in run (overload protected)                    |
| 3   | 614 (GY/OG)  | Driver air bag, feed, monitor                                   |
| 4   | 615 (GY/WH)  | Driver air bag, return                                          |
| 5   | 70 (LB/WH)   | ISO Bus                                                         |
| 6   | 607 (LB/OG)  | Passenger air bag, feed, monitor                                |
| 7   | 616 (PK/BK)  | Passenger air bag, return                                       |
| 8   | 1112 (WH/LB) | Passenger Air bag Deactivation (PAD) switch, signal             |
| 9   | 1113 (YE/LG) | Passenger Air bag Deactivation (PAD) switch, indicator, control |
| 10  | -            | not used                                                        |
| 11  | -            | not used                                                        |
| 12  | -            | not used                                                        |
| 13  | 608 (OG/YE)  | Voltage supplied in run, (overload protected)                   |

| Pin | Circuit      | Circuit function                                                   |
|-----|--------------|--------------------------------------------------------------------|
| 14  | -            | not used                                                           |
| 15  | -            | not used                                                           |
| 16  | -            | not used                                                           |
| 17  | 1886 (GY)    | Vehicle Emergency Messaging System (VEMS) airbag activation signal |
| 18  | -            | not used                                                           |
| 19  | -            | not used                                                           |
| 20  | 608 (BK/YE)  | Air bag indicator, control                                         |
| 21  | 649 (BK/OG)  | Air bag, dedicated ground                                          |
| 22  | -            | not used                                                           |
| 23  | -            | not used                                                           |
| 24  | -            | not used                                                           |
| 25  | -            | not used                                                           |
| 26  | 1083 (LB/PK) | Air bag, lone driver                                               |

**C2099** (BK)

**14401**

Passenger Air  
bag  
Deactivation  
(PAD) switch



FEMALE

| Pin | Circuit      | Circuit function                                                   |
|-----|--------------|--------------------------------------------------------------------|
| 1   | -            | not used                                                           |
| 2   | -            | not used                                                           |
| 3   | 1113 (YEL/G) | Passenger Air bag Deactivation (PAD)<br>switch, Indicator, control |
| 4   | 609 (OG/YE)  | Voltage supplied in run (overload protected)                       |
| 5   | 649 (BK/OG)  | Ground                                                             |
| 6   | 1112 (WH/LB) | Passenger Air bag Deactivation (PAD) switch, signal                |

**C1210** (BK)

**12A581**

Air filter sensor



FEMALE

| Pin | Circuit      | Circuit function                |
|-----|--------------|---------------------------------|
| 1   | 57 (BK)      | Ground                          |
| 2   | 142 (LB/RED) | Air filter sensor signal, input |

**C289** (WH)

**14401**

Temperature  
blend door  
actuator  
(19C016)

**FEMALE**

\* with manual A/C

\*\* with EATC

| Pin | Circuit       | Circuit function                                |
|-----|---------------|-------------------------------------------------|
| 1   | **437 (YE/LG) | Temperature blend door actuator control, signal |
| 2   | -             | not used                                        |
| 3   | **-           | not used                                        |
| 4   | *437 (YE/LG)  | Temperature blend door actuator control, signal |
| 5   | **-           | not used                                        |
| 6   | *436 (RD/LG)  | Air temperature door variable resistor +        |
| 7   | **436 (RD/LG) | Air temperature door variable resistor +        |
| 8   | -             | not used                                        |
|     | 438 (RD/WH)   | Air temperature door variable resistor -        |
|     | **249 (DB/LG) | Blend door actuator +                           |
|     | *296 (WH/VY)  | Voltage in Run (overload protected)             |
|     | **250 (OG)    | Blend door actuator -                           |
|     | *57 (BK)      | Ground                                          |

**C102a** (BK)

**14305**

**12B637**

Generator

**FEMALE**

\* Gas

| Pin | Circuit     | Circuit function                                            |
|-----|-------------|-------------------------------------------------------------|
| 1   | 904 (LG/RD) | Generator/Battery Indicator, control                        |
| 2   | *4 (WH/BK)  | Generator regulator "S" terminal, to generator "S" terminal |
| 3   | 35 (OG/LB)  | Voltage supplied at all times (overload protected)          |

**C102b**  
14305  
Generator

  
FEMALE

  
FEMALE

**14B060 6.8L/5.4L**

| Pin | Circuit   | Circuit function                                            |
|-----|-----------|-------------------------------------------------------------|
| 1   | 4 (WH/BK) | Generator regulator "S" terminal, to generator "S" terminal |

**C102c**  
14305  
12B637  
Generator



**\* 6.0L**

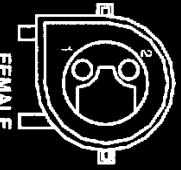
| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 36 (YE/WH) | Voltage supplied at all times (overload protected) |
| *1  | 1119 (RD)  | Voltage supplied at all times (overload protected) |

**C1251c**  
**14305**  
Generator, secondary



| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 36 (YEM/H) | Voltage supplied at all times (overload protected) |

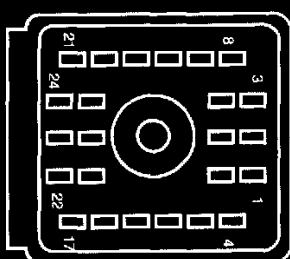
**C132** (BK)  
**14K073**  
Ambient air  
temperature  
sensor (19E702)

  
FEMALE

| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 470 (PK/BK)  | Sensor signal return                           |
| 2   | 3061 (LB/OG) | Ambient air temperature sensor (19E702) signal |

**C1385** (BK)**15525**

TorqShift transmission



FEMALE

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 1   | 125 (DB/MH)  | Shift Solenoid Pressure Control E (SSPC-E) (7J136), control |
| 2   | -            | not used                                                    |
| 3   | 315 (VT/OG)  | Shift Solenoid Pressure Control B (SSPC-B) (7J136), control |
| 4   | 236 (BK/LG)  | Shift Solenoid Pressure Control D (SSPC-D) (7J136), control |
| 5   | 971 (PK/BK)  | Shift Solenoid Pressure Control C (SSPC-C) (7J136), control |
| 6   | -            | not used                                                    |
| 7   | 1876 (YE/MH) | Shift solenoid VPWR                                         |
| 8   | 924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid (7J136), control     |
| 9   | -            | not used                                                    |
| 10  | 480 (VT/YE)  | Pressure Control (PC-A) solenoid (7G383), control           |
| 11  | -            | not used                                                    |
| 12  | 237 (OG/YE)  | Shift Solenoid Pressure Control A (SSPC-A) (7J136), control |

| Pin | Circuit        | Circuit function                                                    |
|-----|----------------|---------------------------------------------------------------------|
| 13  | -              | not used                                                            |
| 14  | -              | not used                                                            |
| 15  | 199 (LB/YE)    | Transmission Range Sensor Assembly (TR-P) (7H557), signal           |
| 16  | -              | not used                                                            |
| 17  | *570 (BK/MH)   | Ground                                                              |
|     | **1867 (OG)    | Transmission Range Sensor Assembly (TR-P) (7H557), Ground           |
| 18  | 923 (OG/BK)    | Transmission Range Sensor Assembly (TR-P) (7H557), Ground           |
| 19  | -              | not used                                                            |
| 20  | 1876 (YE/MH)   | Shift solenoid VPWR                                                 |
| 21  | *371 (PK/MH)   | Reference voltage                                                   |
|     | **3087 (DG/VT) | Reference voltage                                                   |
| 22  | *1875 (OG/MH)  | Signal return, Transmission Fluid Temperature (TF-T) sensor (7H141) |
|     | **1704 (VT/LG) |                                                                     |
| 23  | -              | not used                                                            |
| 24  | 1876 (YE/MH)   | Shift solenoid VPWR                                                 |

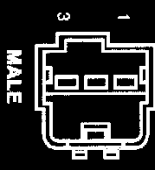
\* 6.0L

\*\* Others

**C2255** (BK)

**14401**

Tow/Haul switch

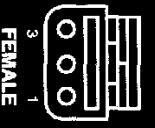


| Pin | Circuit       | Circuit function                             |
|-----|---------------|----------------------------------------------|
| 1   | 224 (TN/VN/H) | Tow/Haul switch, signal                      |
| 2   | 296 (WH/PK)   | Voltage supplied in run (overload protected) |
| 3   | -             | not used                                     |

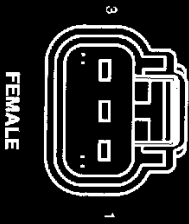
**C2008** (BK)

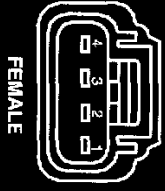
**14401**

Brake  
shift  
interlock



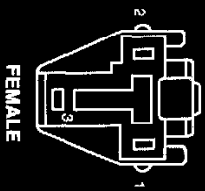
| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 296 (LB/PK) | Voltage supplied in run (overload protected) |
| 2   | 57 (BK)     | Ground                                       |
| 3   | 810 (FD/LG) | Brake pedal position switch (13480), Input   |

|                                                                                   |                |                                                 |
|-----------------------------------------------------------------------------------|----------------|-------------------------------------------------|
| <b>C1107</b>                                                                      |                | *6.0L                                           |
| <b>15525</b>                                                                      |                | **Others                                        |
| Output Shaft Speed (OSS) sensor (7H103)                                           |                |                                                 |
|  |                |                                                 |
|                                                                                   |                |                                                 |
| <b>Pin</b>                                                                        | <b>Circuit</b> | <b>Circuit function</b>                         |
| 1                                                                                 | *371 (PK/WH)   | Reference voltage                               |
|                                                                                   | **3087 (DG/VT) | Reference voltage                               |
| 2                                                                                 | 136 (DB/YE)    | Output Shaft Speed (OSS) sensor (7H103), signal |
|                                                                                   | *570 (BK/WH)   | Ground                                          |
| 3                                                                                 | **1704 (VT/LG) | Signal return                                   |

|                                                                                      |                |                                                       |
|--------------------------------------------------------------------------------------|----------------|-------------------------------------------------------|
| <b>C1387 (BK)</b>                                                                    |                | * 6.0L                                                |
| <b>15525</b>                                                                         |                | ** others                                             |
| Speed sensor assembly (7M101)                                                        |                |                                                       |
|  |                |                                                       |
|                                                                                      |                |                                                       |
| <b>Pin</b>                                                                           | <b>Circuit</b> | <b>Circuit function</b>                               |
| 1                                                                                    | *371 (PK/WH)   | Reference voltage                                     |
|                                                                                      | **3087 (DG/VT) | Reference voltage                                     |
| 2                                                                                    | *570 (BK/WH)   | Ground                                                |
|                                                                                      | **1704 (VT/LG) | Signal return                                         |
| 3                                                                                    | 970 (DG/WH)    | Turbine Shaft Speed (TSS) sensor (7H103), signal      |
| 4                                                                                    | 134 (GY/OG)    | Intermediate Shaft Speed (ISS) sensor (7M101), signal |



**C2033** (BK)  
**14401**  
 Power point,  
 instrument  
 panel  
 (19W236)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1049 (BN/PK) | Voltage supplied at all times (overload protected) |
| 2   | -            | not used                                           |
| 3   | 57 (BK)      | Ground                                             |

**C451** (GN)  
**13A409**  
 Reversing  
 lamp, left  
 (13411)



| Pin | Circuit     | Circuit function                       |
|-----|-------------|----------------------------------------|
| 1   | 57 (BK)     | Ground                                 |
| 2   | -           | not used                               |
| 3   | 140 (BK/PK) | Reversing lamps relay, switched output |

**C461** (GN)  
**13A409**  
Reversing  
lamp, right  
(13411)

FEMALE

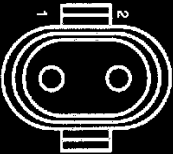
| Pin | Circuit     | Circuit function                       |
|-----|-------------|----------------------------------------|
| 1   | 57 (BK)     | Ground                                 |
| 2   | -           | not used                               |
| 3   | 140 (BK/PK) | Reversing lamps relay, switched output |

**C2257**  
**12A581**  
Reversing lamps relay

FEMALE

| Pin | Circuit | Circuit function                                   |
|-----|---------|----------------------------------------------------|
| 1   | -       | Reversing lamps relay, control                     |
| 2   | -       | Ground                                             |
| 3   | -       | Voltage supplied at all times (overload protected) |
| 4   | -       | not used                                           |
| 5   | -       | Reversing lamps relay, switched output             |

**C169** (WH)  
**15525**  
Reversing lamp  
switch



FEMALE

| Pin | Circuit     | Circuit function             |
|-----|-------------|------------------------------|
| 1   | 324 (YEL/G) | Reversing lamp relay control |
| 2   | 57 (BK)     | Ground                       |

**C1100a**  
**14300**  
**14305**  
**14B060**  
Battery (+) (SSS)



**12A581**  
**14305**



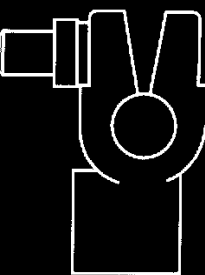
| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

**C1100b**  
**14301**  
**14B060**  
Battery (10655)



| Pin | Circuit                | Circuit function |
|-----|------------------------|------------------|
| 1   | 2057 (BK)<br>2057 (BK) | Ground<br>Ground |

**C1249b**  
**14301**  
Battery II



| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2057 (BK) | Ground           |

**C1031** (BK)  
**12A581**  
 Heater  
 Blower  
 motor  
 (19905)

**FEMALE**

| Pin | Circuit     | Circuit function                    |
|-----|-------------|-------------------------------------|
| 1   | 181 (BN/OG) | Blower motor relay, switched output |
| 2   | 261 (OG/BK) | Blower motor, to switch             |

**C1011**  
**12A581**  
 Blower  
 motor  
 relay

**FEMALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 30  | 364 (BK/LG) | Voltage supplied at all times (overload protected) |
| 85  | 296 (WH/VT) | * Ground<br>Voltage in Run (overload protected)    |
| 86  | 399 (BN/YE) | Blower motor relay, control                        |
| 87  | 181 (BN/OG) | * Blower motor relay, feed                         |
| 87A | —           | Blower motor relay switched power, output          |
| 87B | —           | not used                                           |

\* w/ EATC

**C1032** (WH)  
**19D605**  
Heater blower  
motor resistor  
(19A706)

FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 754 (LG/WH) | Blower switch speed control, to resistor |
| 2   | 57 (BK)     | Ground                                   |
| 3   | 732 (YE/RD) | Blower switch speed control, to resistor |
| 4   | 261 (OG/BK) | Blower motor, to switch                  |

**C1308**  
**19D605**  
Blower motor  
speed  
controller  
(19E624)

FEMALE

| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 752 (YE/RD) | Blower motor speed controller, Signal return |
| 2   | 754 (LG/WH) | Blower motor speed controller, Signal return |
| 3   | 751 (DB/WH) | Blower motor, High                           |
| 4   | 261 (OG/BK) | Blower motor speed controller, command       |
| 5   | 57 (BK)     | Ground                                       |

**C124** (BK)  
**12A581**  
Brake fluid level  
switch (2L414)

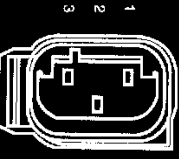


FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 57 (BK)     | Ground                                   |
| 2   | 512 (TN/LG) | Brake fluid level switch (2L414), return |
| 3   | 531 (DG/YE) | Brake fluid level switch (2L414), signal |

**Brake Fluid Pressure Sensor/Switch**  
**BRAKE PRESSURE TRANSDUCER**

**C1445**  
**14401**  
Brake  
Pressure  
Transducer



| Pin | Circuit      | Circuit function             |
|-----|--------------|------------------------------|
| 1   | 3600 (RD/WH) | Brake pressure signal return |
| 2   | 3601 (WH/RD) | Brake pressure sensor        |
| 3   | 3602 (TN/YE) | High current sense, return   |

**C4032** (BN)

**13A409**

Park/stop/  
turn lamp,  
right rear



FEMALE

| Pin | Circuit   | Circuit function             |
|-----|-----------|------------------------------|
| 1   | 57 (BK)   | Ground                       |
| 2   | 14 (BN)   | Power Exterior lamps         |
| 3   | 5 (OG/LB) | Turn lamps, feed, right rear |

**C4035** (BN)

**13A409**

Park/  
stop/turn  
lamp, left  
rear

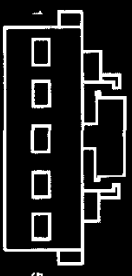


FEMALE

| Pin | Circuit   | Circuit function            |
|-----|-----------|-----------------------------|
| 1   | 57 (BK)   | Ground                      |
| 2   | 14 (BN)   | Power Exterior lamps        |
| 3   | 9 (LG/OG) | Turn lamps, feed, left rear |



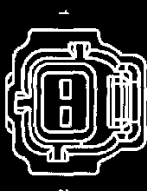
**C278** (TN)  
**14401**  
Brake pedal position switch (13480)



FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 676 (PK/OG) | Ground                                             |
| 2   | 810 (RD/LG) | Brake pedal position switch (13480), input         |
| 3   | 22 (LB/BK)  | Voltage supplied at all times (overload protected) |
| 4   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps  |
| 5   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |

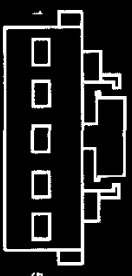
**C1025** (BK)  
**12A581**  
Brake pressure switch (2B264)



FEMALE

| Pin | Circuit     | Circuit function                     |
|-----|-------------|--------------------------------------|
| 1   | 418 (DG/YE) | Brake feed                           |
| 2   | 307 (BK/YE) | Brake pressure switch (2B264), input |

**C278** (TN)  
**14401**  
Brake pedal position switch (13480)



**FEMALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 676 (PK/OG) | Ground                                             |
| 2   | 810 (RD/LG) | Brake pedal position switch (13480), input         |
| 3   | 22 (LB/BK)  | Voltage supplied at all times (overload protected) |
| 4   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps  |
| 5   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |

**C233** (GY)  
**14401**  
In-vehicle temperature sensor (19C734) (19C734)

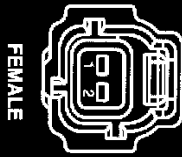


**FEMALE**

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 790 (WH/OG) | In-vehicle temperature sensor (19C734) + |
| 2   | -           | not used                                 |
| 3   | 470 (PK/BK) | Sensor signal return                     |

**C1195** (BK)  
**12A581**

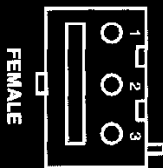
Vapor management valve



| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 361 (RD)    | PCM power relay, switched power |
| 2   | 191 (LG/BK) | Vapor management valve, control |

**C904** (GY)  
**14A005**

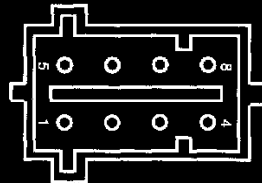
High  
mounted  
stoplamp  
(13A613)



| Pin | Circuit    | Circuit function                                  |
|-----|------------|---------------------------------------------------|
| 1   | 53 (BK/LB) | Interior lamps relay, switched output             |
| 2   | 511 (LG)   | Brake pedal position switch (13A80), to stoplamps |
| 3   | 57 (BK)    | Ground                                            |

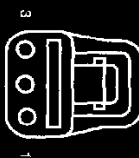
**C218a** (GY)**14401**Air bag sliding  
contact (14A6e4)

\* w/ steering wheel controls



FEMALE

| Pin | Circuit       | Circuit function                                             |
|-----|---------------|--------------------------------------------------------------|
| 1   | 158 (BK/PK)   | Key warning switch (11A127), input                           |
| 2   | 133 (BK)      | Speed control switch return                                  |
| 3   | 1 (DB)        | Horn relay, control                                          |
| 4   | *595 (LB/PD)  | Auxiliary audio controls, steering wheel                     |
| 5   | 57 (BK)       | Ground                                                       |
| 6   | 19 (LB/PD)    | Instrument illumination, feed                                |
| 7   | 151 (LB/BK)   | Speed control switch, input                                  |
| 8   | *1070 (BN/LB) | Audio/climate control switch, Climate Control System, signal |

**C218b** (BK)**14401**Air bag sliding  
contact (14A6e4)

FEMALE

| Pin | Circuit     | Circuit function              |
|-----|-------------|-------------------------------|
| 1   | 615 (GY/WH) | Driver air bag, return        |
| 2   | -           | not used                      |
| 3   | 614 (GY/G)  | Driver air bag, feed, monitor |

**C257** (GY)

**12A581**

Clutch pedal  
position switch

\*Diesel

| Pin | Circuit      | Circuit function                                          |
|-----|--------------|-----------------------------------------------------------|
| 1   | -            | not used                                                  |
| 2   | -            | not used                                                  |
| 3   | 570 (BK/WH)  | Ground                                                    |
|     | *640 (RD/YE) | Voltage supplied in Start and Run (overvoltage protected) |
| 4   | 306 (TNL/B)  | Clutch pedal deactivation switch signal                   |
| 5   | 92 (LB/YE)   | Clutch pedal starter interlock switch signal              |
| 6   | 570 (BK/WH)  | Ground                                                    |

**C100** (BK)  
**14305**  
**12B637**

A/C clutch solenoid  
field coil

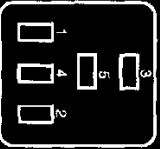


FEMALE

| Pin | Circuit     | Circuit function                  |
|-----|-------------|-----------------------------------|
| 1   | 321 (GY/WH) | A/C clutch relay, switched output |
| 2   | 57 (BK)     | Ground                            |

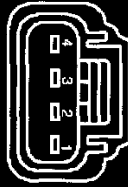
**C1008**  
**12A581**

A/C  
clutch  
relay



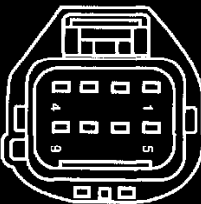
FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched output                   |
| 2   | 331 (PK/YE) | A/C clutch relay, control                          |
| 3   | 326 (WH/VT) | Voltage supplied at all times (overload protected) |
| 4   | -           | not used                                           |
| 5   | 321 (GY/WH) | A/C clutch relay, switched output                  |

**C1444** (BK)**12B637**Charge Motion  
Control Valve  
(CMCV)

FEMALE

| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power            |
| 2   | 570 (BK/WH) | Ground                                     |
| 3   | 367 (BN)    | Charge Motion Control Valve (CMCV) control |
| 4   | 373 (WH/RD) | Charge Motion Control Valve (CMCV) monitor |

**C2040** (GY)**14401**Accelerator  
pedal  
position  
sensor

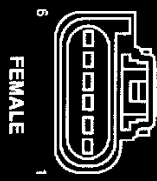
FEMALE

| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 1   | 3011 (BK/OG) | Signal return                               |
| 2   | 3835 (YE/WH) | Accelerator pedal position sensor 1, signal |
| 3   | 3014 (BK/WH) | Accelerator pedal position sensor 3, return |
| 4   | -            | not used                                    |
| 5   | 3012 (WH)    | Accelerator pedal position sensor 2, signal |
| 6   | 3013 (GY/BK) | Accelerator pedal position sensor, 3 power  |
| 7   | 3010 (TN)    | Voltage reference                           |
| 8   | 3015 (WH/RD) | Accelerator pedal position sensor 3, signal |

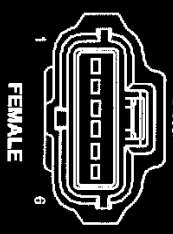
**C128** (BK)

Mass Air Flow (MAF) sensor (19480)

**12B637** Gasoline



**12A581** Diesel



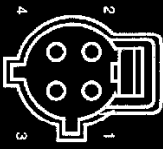
\* Diesel

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 1   | 743 (GY)     | Intake Air Temperature (IAT) sensor (12A697), signal |
|     | *359 (GY/RD) | Signal return                                        |
| 2   | 359 (GY/RD)  | Signal return                                        |
|     | *361 (RD)    | PCM power relay, switched power                      |
| 3   | 967 (LB/RD)  | Mass Air Flow (MAF) sensor (12B579), signal          |
|     | *570 (BK/WH) | Ground                                               |
| 4   | 968 (TV/LB)  | Mass Air Flow (MAF) sensor (12B579) signal, return   |
| 5   | 570 (BK/WH)  | Ground                                               |
|     | *967 (LB/RD) | Mass Air Flow (MAF) sensor (12B579), signal          |
| 6   | 361 (RD)     | PCM power relay, switched power                      |
|     | *743 (GY)    | Intake Air Temperature (IAT) sensor (12A697), signal |

**C2256** (BK)

**14401**

Barometric Absolute Pressure (BAP) switch

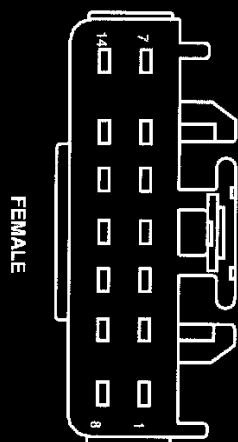


**FEMALE**

| Pin | Circuit      | Circuit function  |
|-----|--------------|-------------------|
| 1   | 3011 (BK/OG) | Signal return     |
| 2   | 3010 (TN)    | Reference voltage |
| 3   | 356 (DB/LG)  | Sensor signal     |
| 4   | -            | not used          |

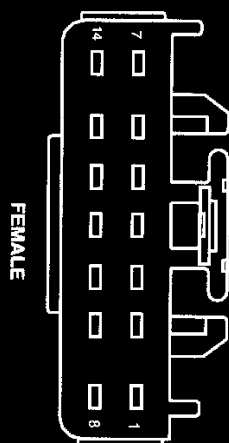


**C2113a** (GY)  
**14A005**  
 Vehicle Security  
 Module (VSM)  
 (15K602)



| Pin | Circuit      | Circuit function                              |
|-----|--------------|-----------------------------------------------|
| 1   | 117 (PK/BK)  | Door lock actuator +/–                        |
| 2   | 1210 (BK/WH) | Door unlock, logic ground                     |
| 3   | 1211 (WH/BD) | Door lock, logic ground                       |
| 4   | 765 (YE/BK)  | Door ajar switch, left front (14018), signal  |
| 5   | 761 (GY/BD)  | Door ajar switch, right front (14018), signal |
| 6   | 760 (PK/LB)  | Door ajar switch, right rear, signal          |
| 7   | 163 (BD/OG)  | Driver door unlock relay, switched power      |
| 8   | 118 (PK/OG)  | Door lock actuator +/–                        |
| 9   | –            | not used                                      |
| 10  | –            | not used                                      |
| 11  | 759 (LG/YE)  | Door ajar switch, left rear, signal           |
| 12  | –            | not used                                      |
| 13  | –            | not used                                      |
| 14  | 57 (BK)      | Ground                                        |

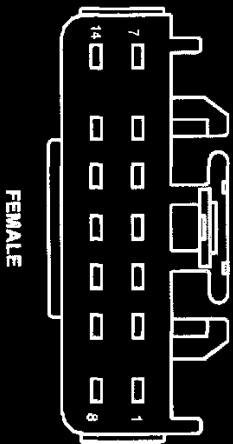
**C2113b** (GN)  
**14A005**  
 Vehicle Security  
 Module (VSM)  
 (15K602)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 116 (BD/BK)  | Voltage supplied at all times (overload protected) |
| 2   | 14 (BN)      | Power, Exterior lamps                              |
| 3   | 1306 (PK/WH) | Voltage supplied at all times (overload protected) |
| 4   | 1104 (LB)    | Sunload sensor (19E663), signal                    |
| 5   | 1399 (DB/WH) | Voltage supplied with autolamps on                 |
| 6   | 1 (DB)       | Horn relay, control                                |
| 7   | 15 (BD/YE)   | Power, Hot with Headlamps on                       |
| 8   | 195 (TN/WH)  | Voltage supplied at all times (overload protected) |
| 9   | –            | not used                                           |
| 10  | –            | not used                                           |
| 11  | –            | not used                                           |
| 12  | –            | not used                                           |
| 13  | –            | not used                                           |
| 14  | 196 (DB/OG)  | Voltage supplied at all times (overload protected) |

**C2113c** (BU)  
**13A005**

Vehicle Security  
Module (VSM)  
(15K602)

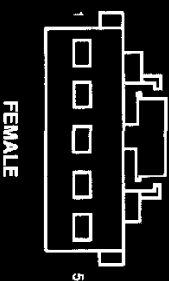


| Pin | Circuit     | Circuit function                  |
|-----|-------------|-----------------------------------|
| 1   | -           | not used                          |
| 2   | 121 (YE/BK) | Key pad switch, circuit A, output |
| 3   | 123 (RD)    | Key pad switch, circuit C, output |
| 4   | 124 (BN)    | Key pad switch, common            |
| 5   | 693 (OG)    | UBP- Diagnostics                  |
| 6   | 66 (LB)     | Key pad switch, illumination      |
| 7   | -           | not used                          |
| 8   | -           | not used                          |
| 9   | 122 (YE)    | Key pad switch, circuit B, output |
| 10  | -           | not used                          |
| 11  | -           | not used                          |
| 12  | -           | not used                          |
| 13  | -           | not used                          |
| 14  | -           | not used                          |

**C278** (TN)

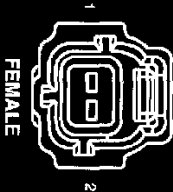
**14401**

Brake pedal  
position switch  
(13480)



| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 676 (PK/OG) | Ground                                             |
| 2   | 810 (RD/LG) | Brake pedal position switch (13480), input         |
| 3   | 22 (LB/BK)  | Voltage supplied at all times (overload protected) |
| 4   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps  |
| 5   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |

**C1025** (BK)  
**12A581**  
 Brake pressure switch (2B264)



| Pin | Circuit     | Circuit function                     |
|-----|-------------|--------------------------------------|
| 1   | 418 (DG/YE) | Brake feed                           |
| 2   | 307 (BK/YE) | Brake pressure switch (2B264), input |

**C1275** (BK)  
**12B637**  
 Camshaft position sensor (6B288)

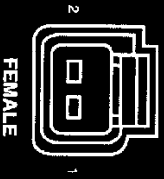


| Pin | Circuit | Circuit function                                  |
|-----|---------|---------------------------------------------------|
| 1   | 50 (RD) | Camshaft position sensor (6B288), Sensor signal + |
| 2   | 49 (OG) | Camshaft position sensor (6B288), Sensor signal - |

**C1366** (BK)

**12B637**

Camshaft  
position sensor  
RH bank  
(6B288)



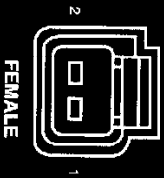
**FEMALE**

| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 359 (GY/RD) | Signal return                              |
| 2   | 282 (DB/OG) | Camshaft position sensor 1 (6B288) control |

**C1367** (BK)

**12B637**

Camshaft  
position sensor  
LH bank  
(6B288)



**FEMALE**

| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 359 (GY/RD) | Signal return                              |
| 2   | 365 (OG)    | Camshaft position sensor 2 (6B288) control |

| Pin | Circuit        | Circuit function  |
|-----|----------------|-------------------|
| 1   | 359 (G/Y/HD)   | Signal return     |
| 2   | 30/6 (Y/E/W/H) | Reference voltage |

\* 6.0L  
\*\* others

**C101 (BK)****12B637**

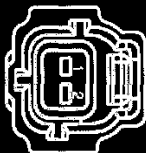
Crankshaft  
position sensor  
(6C315)

Gasoline engines



FEMALE

6.0L Diesel

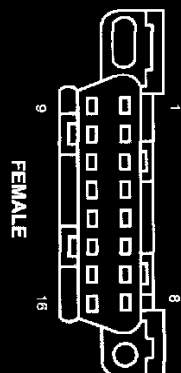


FEMALE

| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | **350 (GY) | Crankshaft position sensor (6C315) - |
|     | *349 (DB)  | Crankshaft position sensor (6C315) + |
| 2   | *350 (GY)  | Crankshaft position sensor (6C315) - |
|     | **349 (DB) | Crankshaft position sensor (6C315) + |

**C251 (BK)****14401**

Data Link Connector  
(DLC) (14489)



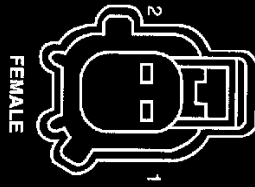
FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | -           | not used                                           |
| 2   | -           | not used                                           |
| 3   | 893 (CG)    | UBP Diagnostics                                    |
| 4   | 57 (BK)     | Ground                                             |
| 5   | 570 (BK/WH) | Ground                                             |
| 6   | 1908 (WH)   | High speed CAN +                                   |
| 7   | 70 (LB/WH)  | ISO Bus                                            |
| 8   | -           | not used                                           |
| 9   | -           | not used                                           |
| 10  | -           | not used                                           |
| 11  | -           | not used                                           |
| 12  | -           | not used                                           |
| 13  | 107 (VT)    | Flash EE prom module programming signal (FEPS)     |
| 14  | 1909 (BK)   | High speed CAN -                                   |
| 15  | -           | not used                                           |
| 16  | 40 (LB/WH)  | Voltage supplied at all times (overload protected) |

**C1368** (BK)

**12B637**

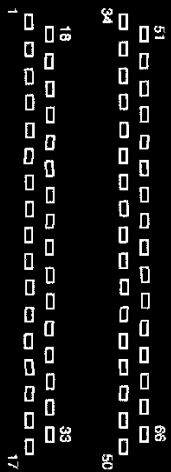
Electronic  
Throttle  
Control (ETC)  
motor  
(9F391)



| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 1   | 1835 (DB/YE) | Electronic Throttle Control (ETC) motor +/- |
| 2   | 1830 (RD/LG) | Electronic Throttle Control (ETC) motor -/+ |

**C175a** (BK)**12B637**

Powertrain Control Module  
(PCM) (AAA1001)  
5.4L  
6.8L



FEMALE

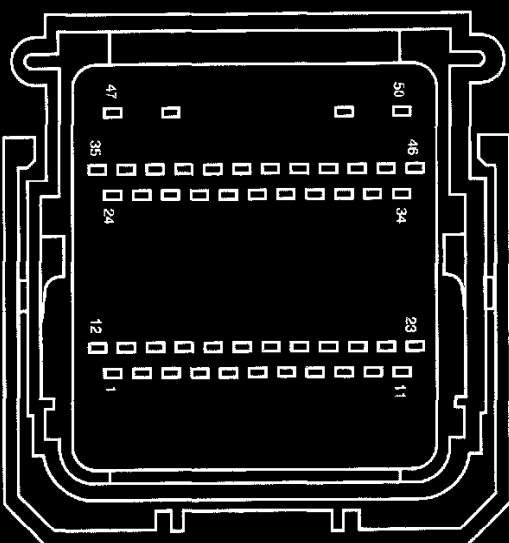
| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 191(LGBK)    | Vapor management valve, control                              |
| 2   | 1276 (WH/OG) | Heated Positive Crankcase Ventilation (PCV) element, control |
| 3   | 331 (PK/YE)  | not used 6.8L                                                |
| 4   | 439 (TN/LG)  | A/C clutch relay, control                                    |
| 5   | 48           | A/C pressure switch, signal                                  |
| 6   | —            | Drain wire - shield                                          |
| 7   | —            | not used                                                     |
| 8   | 1142 (MHRD)  | Coil On Plug (COP) 10, control                               |
| 9   | —            | not used 5.4L                                                |
| 10  | 1029 (MHRD)  | Coil On Plug (COP) 8, control                                |
| 11  | 1021 (LG/YE) | Coil On Plug (COP) 5, control                                |
| 12  | 1026 (PK/WH) | Coil On Plug (COP) 2, control                                |
| 13  | 1028 (WH/PK) | Coil On Plug (COP) 3, control                                |
| 14  | —            | not used 5.4L                                                |
| 15  | 114 (YE/BK)  | Coil On Plug (COP) 9, control                                |
| 16  | 1030 (DGNV)  | Coil On Plug (COP) 4, control                                |
| 17  | 1025 (OG/YE) | Coil On Plug (COP) 6, control                                |
| 18  | 1027 (PK/LB) | Coil On Plug (COP) 7, control                                |
| 19  | 1024 (LG/WH) | Coil On Plug (COP) 1, control                                |
| 20  | —            | not used                                                     |
| 21  | 225 (BK/YE)  | Fuel rail temperature sensor signal                          |
| 22  | —            | not used                                                     |

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 21  | —            | not used                                             |
| 22  | 743 (GY)     | Intake Air Temperature (IAT) sensor (12A697), signal |
| 23  | —            | not used                                             |
| 24  | —            | not used                                             |
| 25  | 967 (LB/RD)  | Mass Air Flow (MAF) sensor (12B579), signal          |
| 26  | 968 (TN/LB)  | Mass Air Flow (MAF) sensor (12B579), signal, return  |
| 27  | 263 (YE/LB)  | Engine Oil Temperature (EOT) sensor, signal          |
| 28  | —            | not used 6.8L                                        |
| 29  | 74 (GY/LB)   | Heated Oxygen Sensor (HO2S) #1 (9F472), input        |
| 30  | 94 (RD/BK)   | Heated Oxygen Sensor (HO2S) #21 (9F472), input       |
| 31  | 1274 (DGNV)  | Knock sensor #2, signal -                            |
| 32  | 311 (DGNV)   | Knock sensor #2, signal +                            |
| 33  | 1269 (OG/LG) | Fuel rail pressure sensor signal                     |
| 34  | —            | not used                                             |
| 35  | 1835 (DB/YE) | Electronic Throttle Control (ETC) motor +/-          |
| 36  | 556 (WH)     | Fuel injector 2, control                             |
| 37  | 568 (BP/LB)  | Fuel injector 4, control                             |
| 38  | 560 (LG/OG)  | Fuel injector 6, control                             |
| 39  | 562 (LB)     | Fuel injector 8, control                             |
| 40  | 1101 (GY/RD) | Fuel injector 10 (9F593) control                     |
| 41  | —            | not used 5.4L                                        |
| 42  | —            | not used                                             |



| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 41  | 1102 (YEL/G) | Cylinder head temperature sensor signal     |
| 42  | -            | not used                                    |
| 43  | 373 (WH/RD)  | Charge Motion Control Valve (CMCV) monitor  |
|     | -            | not used 6.8L                               |
| 44  | 365 (OG)     | Camshaft position sensor 2 (6B289), signal  |
|     | -            | not used 6.8L                               |
| 45  | 282 (DB/OG)  | Camshaft position sensor 1 (6B289), signal  |
| 46  | 350 (GY)     | Crankshaft position sensor (6C315) -        |
| 47  | 349 (DB)     | Crankshaft position sensor (6C315) +        |
| 48  | 1273 (YE)    | Knock sensor #1, signal -                   |
| 49  | 310 (YE/RD)  | Knock sensor #1, signal +                   |
| 50  | 367 (BF)     | Charge Motion Control Valve (CMCV) control  |
|     | -            | not used 6.8L                               |
| 51  | 1830 (RD/LG) | Electronic Throttle Control (ETC) motor -/+ |
| 52  | 555 (TN)     | Fuel Injector 1 (9F593), control            |
| 53  | 557 (BN/YE)  | Fuel Injector 3 (9F593), control            |
| 54  | 559 (TN/BK)  | Fuel Injector 5 (9F593), control            |
| 55  | 561 (TN/RD)  | Fuel Injector 7 (9F593), control            |
| 56  | 1100 (GY/BK) | Fuel Injector 9 (9F593), control            |
|     | -            | not used 5.4L                               |

| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 57  | 3073 (RD/W+) | Fuel rail temperature sensor reference voltage             |
| 58  | 359 (GY/RD)  | Signal return                                              |
| 59  | 1948 (OG/LB) | Throttle Position Sensor (TPS) (9F391), signal return      |
| 60  | 357 (YE/WH)  | Throttle Position Sensor (TPS) (9F391), signal 2           |
| 61  | 356 (GY/WH)  | Throttle Position sensor (TPS) (9F391), signal 1           |
| 62  | -            | not used                                                   |
| 63  | -            | not used                                                   |
| 64  | 1022 (DB/YE) | Intake Manifold Tuning Valve (IMTV) control                |
|     | -            | not used 5.4L                                              |
| 65  | 307 (BK/YE)  | Brake pressure switch (2B264), input                       |
| 66  | 1945 (VT/WH) | Throttle Position Sensor (TPS) (9F391), reference voltage  |
| 67  | 641 (VT/LB)  | Variable camshaft timing (VCT) solenoid 1 (6B297), control |
|     | -            | not used 5.8L                                              |
| 68  | 642 (DG/OG)  | Variable camshaft timing (VCT) solenoid 2 (6B297), control |
| 68  | -            | not used 5.8L                                              |
| 69  | 387 (RD/WH)  | Heated Oxygen Sensor (HO2S) #11 (9F472), heater            |
| 70  | 388 (YE/LB)  | Heated Oxygen Sensor (HO2S) #21 (9F472), heater            |

**C175b** (BK)**12A581**
 Powertrain  
 Control Module  
 (PCM) (12A650)

 \*Automatic transmission  
 \*\*Manual transmission

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 1   | 239 (WH/OG)  | Vehicle speed signal                                 |
| 2   | 329 (PK)     | Starter relay control                                |
| 3   | 791 (RD/PK)  | Fuel tank pressure transducer sensor (9C052), signal |
| 4   | 3013 (GY/BK) | Accelerator pedal position sensor 3, power           |
| 5   | 3835 (YE/WH) | Accelerator pedal position sensor 1, signal          |
| 6   | 3011 (BK/OG) | Signal return                                        |
| 7   | 2246 (OG/YE) | Power take-off (PTO) control signal                  |
| 8   | 810 (RD/LG)  | Brake pedal position switch (13480), input           |
| 9   | 2243 (OG/WH) | Power take off engage signal                         |
| 10  | 567 (LBYE)   | Ground                                               |
| 11  | 1908 (WH)    | High speed CAN +                                     |
| 12  | 926 (LB/OG)  | Fuel pump driver module control signal               |
| 13  | 91 (VT/WH)   | EVAP canister vent control solenoid, control         |

| Pin | Circuit      | Circuit function                                                   |
|-----|--------------|--------------------------------------------------------------------|
| 14  | 1702 (GY/LB) | Heated Oxygen Sensor (HO2S) #13 (9G444), input                     |
| 15  | -            | not used                                                           |
| 16  | 3010 (TTN)   | Voltage reference                                                  |
| 17  | 3012 (WH)    | Accelerator pedal position sensor 2, signal                        |
| 18  | 3014 (BK/WH) | Accelerator pedal position sensor 3, return                        |
| 19  | 151 (LB/BK)  | Speed control switch input                                         |
| 20  | 1896 (GY)    | Vehicle Emergency Messaging System (VEMS) airbag activation signal |
| 21  | 2022 (BN/OG) | Fuel pump driver module return                                     |
| 22  | 463 (RD/WH)  | Four-wheel drive control module neutral switch sense               |
| 23  | 1909 (BK)    | High speed CAN -                                                   |
| 24  | *324 (YE/LG) | Reversing lamps relay control                                      |
| 25  | 76 (LG/WH)   | Tachometer output                                                  |

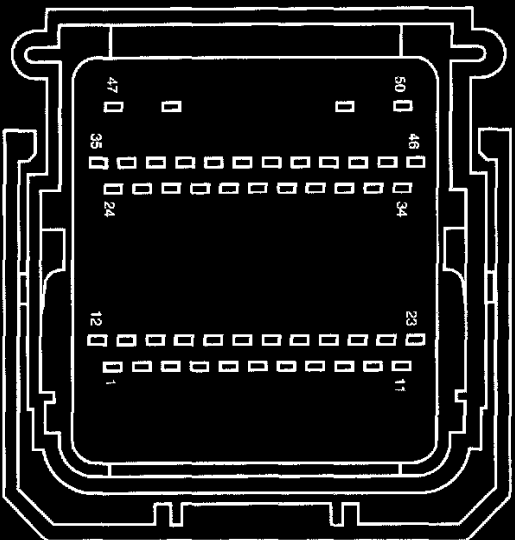
| Pin | Circuit       | Circuit function                                        |
|-----|---------------|---------------------------------------------------------|
| 26  | 2242 (OG)     | Power take-off                                          |
| 27  | * 224 (TN/WH) | Tow/haul switch signal                                  |
| 28  | 3015 (WH/RD)  | Accelerator pedal position sensor 3, signal             |
| 29  | 679 (GY/BK)   | Vehicle Speed Sensor (VSS), signal                      |
| 30  | 133 (BK)      | Speed control switch return                             |
| 31  | -             | not used                                                |
| 32  | **306 (TN/LB) | Clutch pedal deactivation switch signal                 |
| 33  | -             | not used                                                |
| 34  | **92 (LB/YE)  | Clutch pedal starter interlock switch signal            |
| 35  | 361 (RD)      | PCM power relay, switched power                         |
| 36  | 361 (RD)      | PCM power relay, switched power                         |
| 37  | -             | not used                                                |
| 38  | 1706 (WH/BK)  | Heated Oxygen Sensor (HO2S) #13 (9G444), return         |
| 39  | -             | not used                                                |
| 40  | 3074 (BK/OG)  | Fuel tank pressure transducer sensor, voltage reference |
| 41  | 1708 (RD/LG)  | Signal return                                           |
| 42  | 2244 (OG/LB)  | Power take-off status                                   |
| 43  | -             | not used                                                |
| 44  | 107 (VT)      | Flash EE prom module programming signal (FEPS)          |
| 45  | 1683 (DG)     | Voltage supplied at all times (overload protected)      |
| 46  | 1146 (LG/RD)  | Transmission range, park signal                         |
| 47  | 570 (BK/WH)   | Ground                                                  |
| 48  | 570 (BK/WH)   | Ground                                                  |
| 49  | 570 (BK/WH)   | Ground                                                  |
| 50  | 570 (BK/WH)   | Ground                                                  |

**C175c** (BK)

**15525**

Powertrain Control  
Module (PCM)  
(12A650)

\*Automatic transmission  
\*\*With box



FEMALE

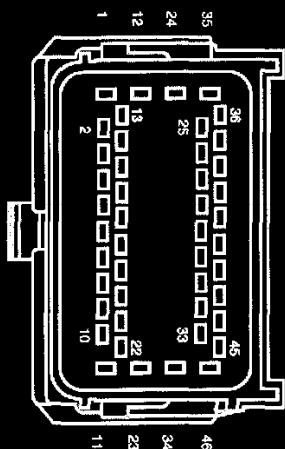
| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 1   | *237 (OG/YE) | Shift Solenoid Pressure Control A (SSPC-A) (7J136), control |
| 2   | *315 (VT/OG) | Shift Solenoid Pressure Control B (SSPC-B) (7J136), control |
| 3   | *136 (DB/YE) | Output Shaft Speed (OSS) sensor (7H103), signal             |
| 4   | *134 (GY/OG) | Intermediate Shaft Speed (ISS) sensor (7M101), signal       |
| 5   | -            | not used                                                    |
| 6   | -            | not used                                                    |
| 7   | -            | not used                                                    |
| 8   | -            | not used                                                    |
| 9   | -            | not used                                                    |
| 10  | *971 (PK/BK) | Shift Solenoid Pressure Control C (SSPC-C) (7J136), control |
| 11  | *236 (BK/LG) | Shift Solenoid Pressure Control D (SSPC-D) (7J136), control |
| 12  | *125 (DB/WH) | Shift Solenoid Pressure Control E (SSPC-E) (7J136), control |

| Pin | Circuit       | Circuit function                                         |
|-----|---------------|----------------------------------------------------------|
| 13  | *924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid (7J136), control  |
| 14  | -             | not used                                                 |
| 15  | *970 (DG/WH)  | Turbine Shaft Speed (TSS) sensor (7H103), signal         |
| 16  | -             | not used                                                 |
| 17  | -             | not used                                                 |
| 18  | -             | not used                                                 |
| 19  | *199 (LB/YE)  | Transmission range sensor assembly (TR-P) (7H557) signal |
| 20  | -             | not used                                                 |
| 21  | -             | not used                                                 |
| 22  | -             | not used                                                 |
| 23  | *480 (VT/YE)  | Pressure Control (PC-A) solenoid (7G383), control        |
| 24  | **392 (RD/LG) | Heated Oxygen Sensor (HO2S) #12 (9G444), input           |
| 25  | **393 (VT/LG) | Heated Oxygen Sensor (HO2S) #22 (9G444), input           |

| Pin | Circuit       | Circuit function                                                     |
|-----|---------------|----------------------------------------------------------------------|
| 26  | —             | not used                                                             |
| 27  | —             | not used                                                             |
| 28  | —             | not used                                                             |
| 29  | *923 (OG/BK)  | Transmission Fluid Temperature (TFT) sensor (7H141), signal          |
| 30  | —             | not used                                                             |
| 31  | —             | not used                                                             |
| 32  | —             | not used                                                             |
| 33  | —             | not used                                                             |
| 34  | —             | not used                                                             |
| 35  | —             | not used                                                             |
| 36  | —             | not used                                                             |
| 37  | —             | not used                                                             |
| 38  | —             | not used                                                             |
| 39  | *3087 (DGM/T) | Reference voltage, Transmission Range Sensor Assembly (TR-P) (7H141) |
| 40  | —             | not used                                                             |
| 41  | 1704 (V7/LG)  | Signal return                                                        |
| 42  | —             | not used                                                             |
| 43  | —             | not used                                                             |
| 44  | —             | not used                                                             |
| 45  | —             | not used                                                             |
| 46  | —             | not used                                                             |
| 47  | **389 (WH/BK) | Heated Oxygen Sensor (HO2S) #12 (9G444), heater                      |
| 48  | **390 (TN/YE) | Heated Oxygen Sensor (HO2S) #22 (9G444), heater                      |
| 49  | *1876 (YE/WH) | Shift solenoid VPWR                                                  |
| 50  | *1867 (OG)    | Transmission Range Sensor Assembly (TR-P) (7H157), Ground            |

**C1381a** (BK)**12A581**

Powertrain  
Control Module  
(PCM) (12A850)

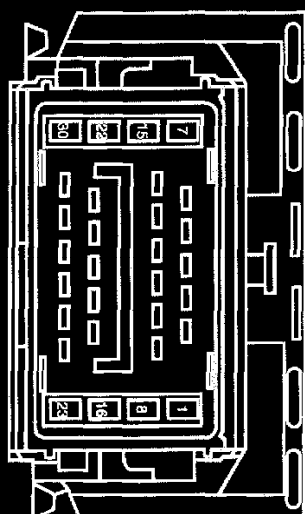


Diesel only  
\* Automatic transmission  
\*\* Manual transmission

| Pin | Circuit      | Circuit function                                      |
|-----|--------------|-------------------------------------------------------|
| 1   | 76 (LG/WH)   | Tachometer output                                     |
| 2   | 331 (PK/YE)  | A/C clutch relay, control                             |
| 3   | 463 (RD/WH)  | Four wheel drive control module, neutral switch sense |
| 4   | 329 (PK)     | Starter relay, control                                |
| 5   | 926 (LB/OG)  | Fuel pump relay, control                              |
| 6   | 2246 (OG/YE) | Power take-off (PTM) control signal                   |
| 7   | 1857 (YE/WH) | Throttle position sensor feed                         |
| 8   | 439 (TN/LG)  | A/C pressure switch, signal                           |
| 9   | 2248 (VT/LG) | Auto charge protect                                   |
| 10  | 567 (LB/YE)  | Ground                                                |
| 11  | 570 (BK/WH)  | Communication network ground (type 1 ground)          |
| 12  | 2242 (OG)    | Power take-off                                        |

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 13  | 1908 (WH)    | High speed CAN +                                   |
| 14  | 1909 (BK)    | High speed CAN -                                   |
| 15  | 643 (RD)     | Water-in-fuel sensor, signal                       |
| 16  | 440 (TN/LG)  | A/C head pressure sensor                           |
| 17  | 162 (LG/RD)  | Parking brake switch, input                        |
| 18  | 810 (RD/LG)  | Brake pedal position switch (13480), input         |
| 19  | 787 (PK/BK)  | Fuel pump power                                    |
| 20  | 3014 (BK/WH) | Accelerator pedal position sensor 3, return        |
| 21  | 968 (TN/LB)  | Mass Air Flow (MAF) sensor (12B579) signal, return |
| 22  | 239 (WH/OG)  | Vehicle speed signal                               |
| 23  | 570 (BK/WH)  | Communication network ground (type 1 ground)       |

| Pin | Circuit       | Circuit function                                    |
|-----|---------------|-----------------------------------------------------|
| 24  | 133 (BK)      | Speed control switch return                         |
| 25  | 3015 (WH/RED) | Accelerator pedal position sensor 3, signal         |
| 26  | 3835 (YE/WH)  | Accelerator pedal position sensor 1, signal         |
| 27  | **92 (LB/YE)  | Clutch pedal starter interlock switch, signal       |
| 28  | 307 (BK/YE)   | Brake pressure switch, input                        |
| 29  | 3013 (GY/BK)  | Accelerator pedal position sensor 2, return         |
| 30  | 3090 (VT)     | Generator/Battery indicator, control                |
| 31  | 151 (LB/BK)   | Speed control switch input                          |
| 32  | 2247 (OG/BK)  | Customer Access                                     |
| 33  | 359 (GY/RED)  | Signal return                                       |
| 34  | 361 (RD)      | PCM power relay, switched power                     |
| 35  | 679 (GY/BK)   | Vehicle Speed Sensor (VSS), signal                  |
| 36  | **224 (TN/WH) | Tow/Haul switch, signal                             |
|     | **306 (TN/LB) | Clutch pedal deactivation switch, signal            |
| 37  | 3012 (WH)     | Accelerator pedal position sensor 2, signal         |
| 38  | 356 (DB/LG)   | Barometric pressure sensor feed                     |
| 39  | 107 (VT)      | Flash EEPROM Module Programming Signal (FEPS)       |
| 40  | 1683 (DG)     | Voltage supplied at all times (overload protected)  |
| 41  | 358 (LG/BK)   | Manifold absolute pressure                          |
| 42  | 967 (LB/RED)  | Mass Air Flow (MAF) sensor (12B579), signal         |
| 43  | 743 (GY)      | Inake air temperature (IAT) sensor (12A697), signal |
| 44  | 2245 (OG/RED) | Power take off voltage reference                    |
| 45  | 351 (BN/WH)   | Power to engine sensors                             |
| 46  | 361 (RD)      | PCM power relay, switched power                     |

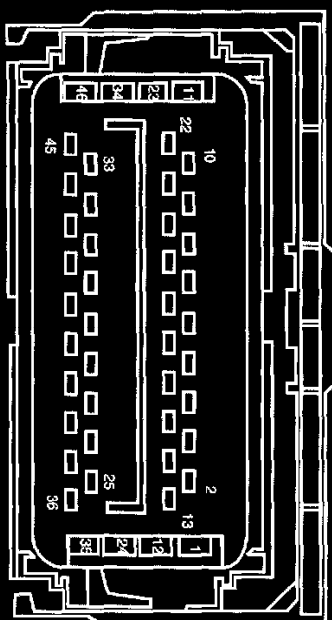
**C1381b (BK)****15525**Powertrain  
Control Module  
(PCM)  
(12A650)

FEMALE

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 1   | 371 (PK/WH)  | Reference voltage                                           |
| 2   | 480 (VT/YE)  | Pressure Control (PC-A) solenoid (7G383), control           |
| 3   | 324 (YE/LG)  | Reversing lamps relay, control                              |
| 4   | -            | not used                                                    |
| 5   | 1146 (LG/RD) | not used                                                    |
| 6   | -            | not used                                                    |
| 7   | 1876 (YE/WH) | Shift solenoid VPWR                                         |
| 8   | -            | not used                                                    |
| 9   | 237 (OG/YE)  | Shift Solenoid Pressure Control A (SSPC-A) (7J136), control |
| 10  | 315 (VT/OG)  | Shift Solenoid Pressure Control B (SSPC-B) (7J136), control |
| 11  | 971 (PK/BK)  | Shift Solenoid Pressure Control C (SSPC-C) (7J136), control |
| 12  | 236 (BK/LG)  | Shift Solenoid Pressure Control D (SSPC-D) (7J136), control |
| 13  | 125 (DG/WH)  | Shift Solenoid Pressure Control E (SSPC-E) (7J136), control |
| 14  | 924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid (7J136), control     |

| Pin | Circuit      | Circuit function                                            |
|-----|--------------|-------------------------------------------------------------|
| 15  | -            | not used                                                    |
| 16  | -            | not used                                                    |
| 17  | -            | not used                                                    |
| 18  | -            | not used                                                    |
| 19  | -            | not used                                                    |
| 20  | -            | not used                                                    |
| 21  | -            | not used                                                    |
| 22  | 570 (BK/WH)  | Transmission Range Sensor Assembly (TR-P) (7H557), Ground   |
| 23  | -            | not used                                                    |
| 24  | -            | not used                                                    |
| 25  | 199 (LB/YE)  | Transmission Range Sensor Assembly (TR-P) (7H557), signal   |
| 26  | 923 (OG/BK)  | Transmission Fluid Temperature (TFT) sensor (7H141), signal |
| 27  | 134 (GY/OG)  | Intermediate Shaft Speed (ISS) sensor (7M101), signal       |
| 28  | 136 (DB/YE)  | Output Shaft Speed (OSS) sensor (7H103), signal             |
| 29  | 970 (DG/WH)  | Turbine Shaft Speed (TSS) sensor (7M101), signal            |
| 30  | 1875 (OG/WH) | Signal return                                               |

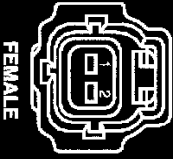


**C1381c** (BK)**12B837**Powertrain  
Control Module  
(PCM) (12A650)

| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 1183 (WH/YE) | Generator/battery charge control                             |
| 2   | 552 (YE/RED) | Injection Pressure Regulator (IPR), control                  |
| 3   | 1086 (VT/OG) | Glow Plug System, signal                                     |
| 4   | 1185 (YE)    | Generator/battery charge control (with dual generators)      |
| 5   | —            | not used                                                     |
| 6   | 229 (RD/OG)  | Electronic fan clutch, signal                                |
| 7   | —            | not used                                                     |
| 8   | —            | not used                                                     |
| 9   | —            | not used                                                     |
| 10  | 43 (DB)      | Variable geometric turbo actuator, common                    |
| 11  | 41 (BK/LB)   | Variable geometric turbo actuator, control                   |
| 12  | —            | not used                                                     |
| 13  | —            | not used                                                     |
| 14  | 228 (DB)     | Electronic fan clutch, control                               |
| 15  | —            | not used                                                     |
| 16  | —            | not used                                                     |
| 17  | 1277 (WH/LG) | Glow plug control module (GPCM), signal                      |
| 18  | —            | not used                                                     |
| 19  | 54 (LG/YE)   | Fuel Injector Control Module (FICM), fuel delivery command   |
| 20  | 56 (DB/OG)   | Fuel Injector Control Module (FICM), cylinder identification |
| 21  | —            | not used                                                     |
| 22  | 360 (BN/PK)  | Engine cooling fan, Ground                                   |

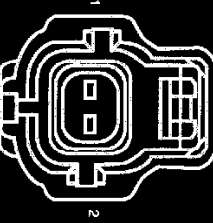
| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 23  | 33 (WH/PK)   | EGR valve actuator, control                        |
| 24  | —            | not used                                           |
| 25  | 369 (GY/RED) | Signal return                                      |
| 26  | 70 (LB/WH)   | CAN Bus 2L                                         |
| 27  | 553 (VT/LB)  | Exhaust Back Pressure (EBP) sensor, signal         |
| 28  | 878 (PK/YE)  | Fuel Injector Control Module (FICM), communication |
| 29  | 812 (DB/LG)  | Injection Control Pressure (ICP) sensor, signal    |
| 30  | 349 (DB)     | Crankshaft position sensor (6C315) +               |
| 31  | 50 (RD)      | Camshaft position sensor (6B288) +                 |
| 32  | 3076 (YE/WH) | Coolant temperature sensor, signal                 |
| 33  | 34 (LB/OG)   | EGR valve actuator, position sense                 |
| 34  | —            | not used                                           |
| 35  | —            | not used                                           |
| 36  | 351 (BN/WH)  | Reference voltage                                  |
| 37  | 69 (RD/LG)   | CAN Bus 2H                                         |
| 38  | —            | not used                                           |
| 39  | —            | not used                                           |
| 40  | —            | not used                                           |
| 41  | 350 (GY)     | Crankshaft position sensor (6C315) -               |
| 42  | 57 (BK)      | Ground                                             |
| 43  | 49 (OG)      | Camshaft position sensor (6B288) -                 |
| 44  | 354 (LG/RED) | Engine Oil Temperature (EOT) sensor, signal        |
| 45  | 42 (RD/WH)   | Air Charge Temperature (ACT) sensor, signal        |
| 46  | 352 (BN/LG)  | Electronic fan clutch, Reference voltage           |

**C107** (WH)  
**14B102**  
Cylinder head temperature sensor (50004)



| Pin | Circuit      | Circuit function                        |
|-----|--------------|-----------------------------------------|
| 1   | 1102 (YE/LG) | Cylinder head temperature sensor signal |
| 2   | 359(GY/RD)   | Signal return                           |

**C129** (BK)  
**12A581**  
Intake air temperature sensor (12A587)



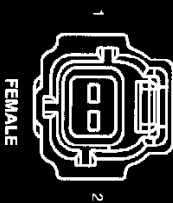
| Pin | Circuit     | Circuit function                                     |
|-----|-------------|------------------------------------------------------|
| 1   | 359 (GY/RD) | Signal return                                        |
| 2   | 743 (GY)    | Intake Air Temperature (IAT) sensor (12A587), signal |

**C1236** (G<sup>+</sup>)

**9D930**

**12B637**

Manifold Air  
Temperature  
(MAT) sensor



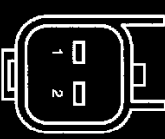
FEMALE

| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 1   | 359 (GY/RD) | Signal return                                          |
| 2   | 42 (RD/WH)  | Signal from Powertrain Control Module (PCM) (12A650) - |

**C108** (BK)

**12B637**

Knock sensor (12A689) #2



MALE

| Pin | Circuit     | Circuit function          |
|-----|-------------|---------------------------|
| 1   | 1274 (DGMH) | Knock sensor #2, signal - |
| 2   | 311 (DGNV)  | Knock sensor #2, signal + |

**C109** (BK)

**12B637**

Knock sensor (12A699) #1



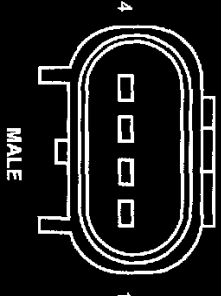
MALE

| Pin | Circuit     | Circuit function          |
|-----|-------------|---------------------------|
| 1   | 1273 (YE)   | Knock sensor #1, signal - |
| 2   | 310 (YE/RD) | Knock sensor #1, signal + |

**C1447** (BK)

**12B637**

Dual knock sensor



MALE

| Pin | Circuit      | Circuit function          |
|-----|--------------|---------------------------|
| 1   | 310 (YE/HD)  | Knock sensor #1, signal + |
| 2   | 1273 (YE)    | Knock sensor #1, signal - |
| 3   | 311 (DG/VT)  | Knock sensor #2, signal + |
| 4   | 1274 (DG/WH) | Knock sensor #2, signal - |

**C2160**  
**12A581**  
PCM power relay

**FEMALE**

| Pin | Circuit    | Circuit function                                       |
|-----|------------|--------------------------------------------------------|
| 30  | -          | Voltage supplied at all times (not overload protected) |
| 85  | -          | Ground                                                 |
| 86  | 16 (RD/LG) | Voltage supplied in Start and Run (overload protected) |
| 87  | -          | PCM power relay, switched power, output                |
| 87A | -          | not used                                               |

**C1087 (BK)**  
**12A581**  
Manifold Absolute Pressure (MAP) sensor

**FEMALE**

| Pin | Circuit      | Circuit function                                                                          |
|-----|--------------|-------------------------------------------------------------------------------------------|
| 1   | 351 (BN/WH)  | Reference voltage                                                                         |
| 2   | 358 (LG/BK)  | Manifold Absolute Pressure (MAP) sensor, $P_o$ , Powertrain Control Module (PCM) (12A650) |
| 3   | 359 (GY/RED) | Signal return                                                                             |

**C104**  
**12B637**  
Engine Oil  
Temperature  
(EOT) sensor

Gas (BN)  
2  
1  
FEMALE

Diesel (GY)  
1  
2  
FEMALE

\*6.0L

| Pin | Circuit     | Circuit function                            |
|-----|-------------|---------------------------------------------|
| 1   | 263 (YE/LB) | Engine Oil Temperature (EOT) sensor, signal |
| *1  | 359 (GY/RD) | Signal return                               |
| 2   | 359 (GY/RD) | Signal return                               |
| *2  | 364 (LG/RD) | Engine Oil Temperature (EOT) sensor, signal |

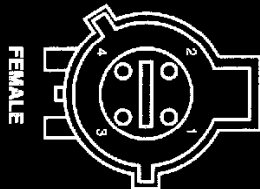
**C141 (BU)**  
**15525**  
Heated Oxygen  
Sensor (HO2S)  
#22 (9G444)



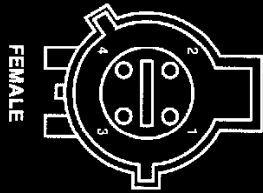
| Pin | Circuit      | Circuit function                                |
|-----|--------------|-------------------------------------------------|
| 1   | 390 (TN/YE)  | Heated Oxygen Sensor (HO2S) #22 (9G444), heater |
| 2   | 391 (RD/YE)  | PCM power relay, switched power                 |
| 3   | 393 (VT/LG)  | Heated Oxygen Sensor (HO2S) #22 (9G444), input  |
| 4   | 1704 (VT/LG) | Signal return                                   |

**C142** (BU)**15525**Heated Oxygen Sensor  
(HO2S) #12 (9G444)

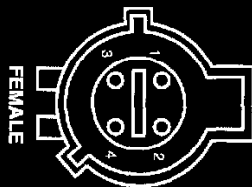
| Pin | Circuit      | Circuit function                                |
|-----|--------------|-------------------------------------------------|
| 1   | 389 (WH/BK)  | Heated Oxygen Sensor (HO2S) #12 (9G444), heater |
| 2   | 391 (RD/YE)  | PCM power relay, switched power                 |
| 3   | 392 (RD/LG)  | Heated Oxygen Sensor (HO2S) #12 (9G444), input  |
| 4   | 1704 (VT/LG) | Signal return                                   |

**C171** (BK)**12B637**Heated Oxygen Sensor  
(HO2S) #11 (9F472)

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                 |
| 2   | 387 (RD/WH) | Heated Oxygen Sensor (HO2S) #11 (9F472), heater |
| 3   | 359 (GV/PD) | Signal return                                   |
| 4   | 74 (GV/LB)  | Heated Oxygen Sensor (HO2S) #11 (9F472), input  |

**C172** (BK)**12B637**Heated Oxygen Sensor  
(HO2S) #21 (9F-472)

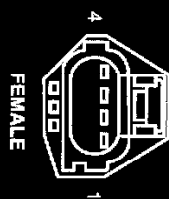
| Pin | Circuit     | Circuit function                                 |
|-----|-------------|--------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                  |
| 2   | 388 (YE/LB) | Heated Oxygen Sensor (HO2S) #21 (9F-472), heater |
| 3   | 359 (GY/BD) | Signal return                                    |
| 4   | 94 (RD/BK)  | Heated Oxygen Sensor (HO2S) #21 (9F-472), input  |

**C1446** (BU)**14405**Heated Oxygen  
Sensor (HO2S)  
#13 (9G-444)

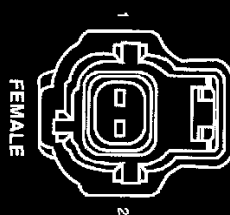
| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 1706 (WH/BK) | Heated Oxygen Sensor (HO2S) #13 (9G-444), heater |
| 2   | 391 (RD/YE)  | PCM power relay, switched power                  |
| 3   | 1702 (GY/LB) | Heated Oxygen Sensor (HO2S) #13 (9G-444), input  |
| 4   | 1703 (RD/LG) | Signal return                                    |



**Throttle Position  
Sensor (TPS)  
(9F991)**



| Pin | Circuit      | Circuit function                                         |
|-----|--------------|----------------------------------------------------------|
| 1   | 35f (YEMH)   | Throttle Position Sensor (TPS) (9F991) signal 2          |
| 2   | 1945 (VTWMH) | Throttle Position Sensor (TPS) (9F991) Reference voltage |
| 3   | 1946 (OGLB)  | Throttle Position Sensor (TPS) (9F991) Signal return     |
| 4   | 35f (GYWMH)  | Throttle Position Sensor (TPS) (9F991) signal 1          |

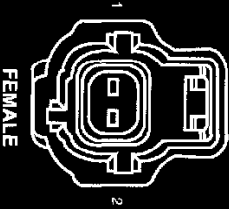
Variable  
Carnshaft Timing  
(VCT) solenoid 1  
(5B297) RH bank

| Pin | Circuit     | Circuit function                                            |
|-----|-------------|-------------------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                             |
| 2   | 641 (VT/LB) | Variable camshaft timing (VCT), solenoid 1 (6B297), control |

**C1370** (BK)

**12B637**

Variable  
Camshaft Timing  
(VCT) solenoid 2  
(6B297) L1 bank



| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 1   | 391 (RD/YE) | PCM power relay, switched power                           |
| 2   | 642 (DG/OG) | Variable camshaft timing (VCT) solenoid 2 (6B297) control |

**C9013** (BK)

**17C712**

Overhead Console



| Pin | Circuit      | Circuit function                      |
|-----|--------------|---------------------------------------|
| 1   | -            | not used                              |
| 2   | -            | not used                              |
| 3   | -            | not used                              |
| 4   | 19 (LB/RD)   | Instrument illumination, feed         |
| 5   | -            | not used                              |
| 6   | -            | not used                              |
| 7   | 53 (BK/LB)   | Interior lamps relay, switched output |
| 8   | 54 (LG/YE)   | Battery saver relay, switched output  |
| 9   | 57 (BK)      | Ground                                |
| 10  | 1173 (BN/OG) | Roof opening panel, common            |
| 11  | 1174 (WH/RD) | Roof opening panel, Open circuit      |
| 12  | 1175 (TN/RD) | Roof opening panel, Close circuit     |
| 13  | -            | not used                              |
| 14  | -            | not used                              |
| 15  | -            | not used                              |
| 16  | -            | not used                              |

**C294c** (BK)

**14401**

Function selector switch assembly

FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 57 (BK)     | Ground                                   |
| 2   | 261 (OG/BK) | Blower motor, to switch - High           |
| 3   | 752 (YE/RD) | Blower motor, speed control, low         |
| 4   | 764 (LG/WH) | Blower switch speed control, to resistor |

**C294a** (RD)

**14401**

Function selector switch assembly, front

FEMALE

| Pin | Circuit     | Circuit function                    |
|-----|-------------|-------------------------------------|
| 1   | 296 (WH/VT) | Voltage in Run (overload protected) |
| 2   | 348 (VT)    | A/C demand signal                   |
| 3   | 399 (BN/YE) | Blower motor relay, control         |
| 4   | 57 (BK)     | Ground                              |

**C294b** (BK)

**14401**

Function selector switch assembly, front



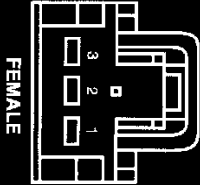
FEMALE

| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 19 (LB/RD) | Instrument illumination, feed |
| 2   | 57 (BK)    | Ground                        |

**C294d** (WH)

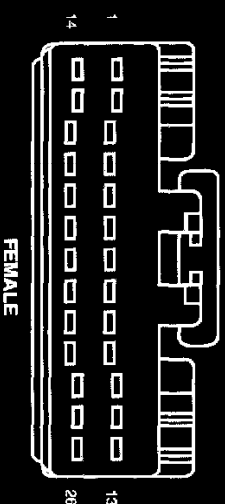
**14401**

Function selector switch assembly, front

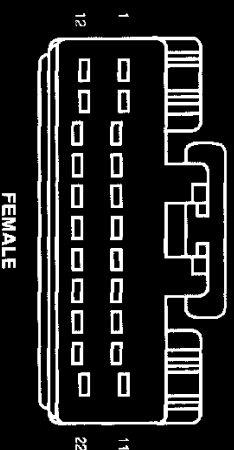


FEMALE

| Pin | Circuit     | Circuit function                                 |
|-----|-------------|--------------------------------------------------|
| 1   | 438 (RD/WH) | Air temperature door variable resistor -         |
| 2   | 437 (YEL/G) | Temperature blend door actuator, control, signal |
| 3   | 436 (RD/LG) | Air temperature door variable resistor +         |

**C228a** (GV)**14401**Electronic Automatic  
Temperature Control  
(EATC) module  
(19980)

| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | -            | not used                                                     |
| 2   | 676 (PK/OG)  | Ground                                                       |
| 3   | 752 (YE/RD)  | Blower motor speed controller, signal return                 |
| 4   | 436 (RD/LG)  | Air temperature door variable resistor +                     |
| 5   | 1070 (BN/LB) | Audio/climate control switch, Climate Control System, signal |
| 6   | -            | not used                                                     |
| 7   | 3061 (LB/OG) | Ambient air temperature sensor (19E702), signal              |
| 8   | -            | not used                                                     |
| 9   | 1106 (LG/WH) | Remote solenoid assembly, common                             |
| 10  | 261 (OG/BK)  | Blower motor, High                                           |
| 11  | 1111 (VT)    | Remote solenoid #5, control                                  |
| 12  | 1110 (LG/VT) | Remote solenoid #4, control                                  |
| 13  | 1107 (WH)    | Remote solenoid #1, control                                  |
| 14  | 19 (LB/RD)   | Instrument illumination, feed                                |
| 15  | -            | not used                                                     |
| 16  | 754 (LG/WH)  | Blower motor speed controller, command                       |
| 17  | -            | not used                                                     |
| 18  | -            | not used                                                     |
| 19  | 790 (WH/OG)  | In-vehicle temperature sensor (19C734) +                     |
| 20  | 217 (DB/OG)  | Temperature blend door actuator, control, signal             |
| 21  | 437 (YE/LG)  | Blend door actuator, position sense, monitor                 |
| 22  | -            | not used                                                     |
| 23  | 399 (BN/YE)  | Blower motor relay, feed                                     |
| 24  | -            | not used                                                     |
| 25  | 1109 (OG/BK) | Remote solenoid #3, control                                  |
| 26  | 1108 (TN/WH) | Remote solenoid #2, control                                  |

**C228b** (GV)**14401**Electronic Automatic  
Temperature Control  
(EATC) module  
(19980)

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | -           | not used                                           |
| 2   | -           | not used                                           |
| 3   | 693 (OG)    | UBP Diagnostics                                    |
| 4   | -           | not used                                           |
| 5   | 470 (PK/BK) | Sensor signal return                               |
| 6   | 438 (RD/WH) | Air temperature door variable resistor -           |
| 7   | -           | not used                                           |
| 8   | -           | not used                                           |
| 9   | -           | not used                                           |
| 10  | -           | not used                                           |
| 11  | 22 (LB/BK)  | Voltage supplied at all times (overload protected) |
| 12  | -           | not used                                           |
| 13  | -           | not used                                           |
| 14  | -           | not used                                           |
| 15  | -           | not used                                           |
| 16  | -           | not used                                           |
| 17  | -           | not used                                           |
| 18  | 348 (VT)    | A/C demand signal                                  |
| 19  | 250 (OG)    | Blend door actuator -                              |
| 20  | 249 (DB/LG) | Blend door actuator +                              |
| 21  | -           | not used                                           |
| 22  | 296 (WH/VT) | Voltage in Run (overload protected)                |

**C931** (GY)

**14A005**

Interior/map  
lamps  
assembly,  
front

**FEMALE**

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 53 (BK/LB) | Interior lamps relay, switched output |
| 2   | 57 (BK)    | Ground                                |
| 3   | 54 (LG/YE) | Battery saver relay, switched output  |

**C932** (GY)

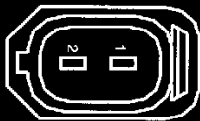
**14A005**

Interior/map  
lamps  
assembly,  
rear

**FEMALE**

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 53 (BK/LB) | Interior lamps relay, switched output |
| 2   | 57 (BK)    | Ground                                |
| 3   | 54 (LG/YE) | Battery saver relay, switched output  |

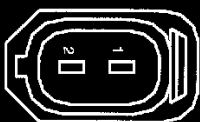
**C3084**  
**19F504**  
Running  
board lamp,  
left front



FEMALE

| Pin | Circuit    | Circuit function                            |
|-----|------------|---------------------------------------------|
| 1   | 57 (BK)    | Ground                                      |
| 2   | 53 (BK/LB) | Interior lamp relay, switched power, output |

**C3085**  
**19F504**  
Running  
board lamp,  
left rear



FEMALE

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 57 (BK)    | Ground                                |
| 2   | 53 (BK/LB) | Interior lamps relay, switched output |

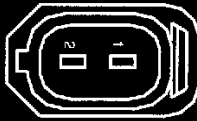
**C3087**  
**19F504**  
Running  
board lamp,  
left rear



FEMALE

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 57 (BK)    | Ground                                |
| 2   | 53 (BK/LB) | Interior lamps relay, switched output |

**C3086**  
**19F504**  
Running  
board lamp,  
right front



FEMALE

| Pin | Circuit    | Circuit function                      |
|-----|------------|---------------------------------------|
| 1   | 57 (BK)    | Ground                                |
| 2   | 53 (BK/LB) | Interior lamps relay, switched output |



**C1171**  
**12A581**

Daytime  
Running Lamps  
(DRL) relay 1

**FEMALE**

| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 295 (LB/PK) | Voltage supplied in run (overload protected) |
| 2   | 162 (LG/RD) | Parking brake switch, input                  |
| 3   | 295 (LB/PK) | Voltage supplied in run (overload protected) |
| 4   | 175 (BK/YE) | Park brake relay, switched output            |
| 5   | -           | not used                                     |

**C1172**  
**12A581**

Daytime  
Running Lamps  
(DRL) relay 2

**FEMALE**

| Pin | Circuit      | Circuit function                                     |
|-----|--------------|------------------------------------------------------|
| 1   | 15 (RD/YE)   | Power, Hot with Headlamps on                         |
| 2   | 57 (BK)      | Ground                                               |
| 3   | 175 (BK/YE)  | Park brake relay, switched output                    |
| 4   | 1032 (WH/BK) | Daytime Running Lamps (DRL) relay 2, switched output |
| 5   | -            | not used                                             |

**C1000**  
**12A581**  
 Daytime Running Lamps (DRL) relay 3

**FEMALE**

| Pin | Circuit      | Circuit function                                                       |
|-----|--------------|------------------------------------------------------------------------|
| 30  | 13 (RD/BK)   | Headlamp circuit (DRL)                                                 |
| 85  | 57 (BK)      | Ground                                                                 |
| 86  | 1032 (WH/BK) | Daytime Running Lamps (DRL) relay 2, switched output                   |
| 87  | 471 (OG/LG)  | Daytime running lamps resistor, to Daytime Running Lamps (DRL) relay 3 |
| 87A | 1033 (RD/YE) | Daytime Running Lamps (DRL) relay 2, switched output                   |

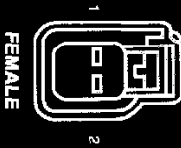
**C196 (BK)**  
**12A581**  
 Daytime running lamps resistor

**FEMALE**

| Pin | Circuit     | Circuit function                                                       |
|-----|-------------|------------------------------------------------------------------------|
| 1   | 471 (OG/LG) | Daytime Running Lamps resistor, to Daytime Running Lamps (DRL) relay 3 |
| 2   | 554 (YF/BK) | Voltage supplied at all times (overload protected)                     |

**C455**  
**14405**

Rear axle  
speed sensor  
(4B409)

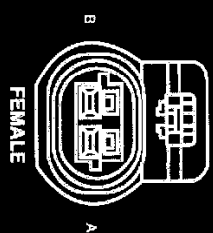


1  
2  
FEMALE

| Pin | Circuit     | Circuit function                 |
|-----|-------------|----------------------------------|
| 1   | 519 (LG/BK) | Rear axle speed sensor (4B409) - |
| 2   | 523 (RD/PK) | Rear axle speed sensor (4B409) + |

**C1443**  
**12B637**

Exhaust Gas  
Restricting  
Temperature  
Sensor  
(EGRT)



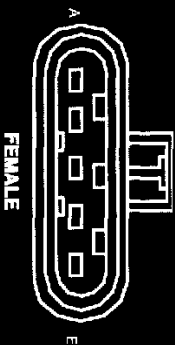
B  
A  
FEMALE

| Pin | Circuit       | Circuit function         |
|-----|---------------|--------------------------|
| A   | 359A (GY/RD)  | Signal return            |
| B   | 3760 (RD/W-H) | Temperature sensor input |

**C1389** (BK)

**12B637**

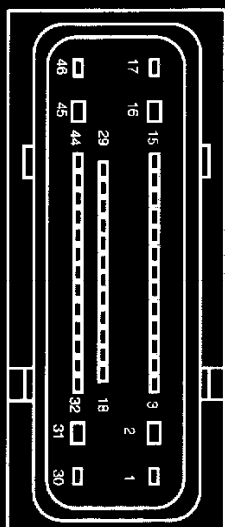
EGR valve actuator



| Pin | Circuit     | Circuit function                   |
|-----|-------------|------------------------------------|
| A   | 33 (WH/PK)  | EGR valve actuator, control        |
| B   | 359 (GY/RD) | Signal return                      |
| C   | 34 (LB/OG)  | EGR valve actuator, position sense |
| D   | 351 (BN/WH) | Reference voltage                  |
| E   | 361 (RD)    | PCM power relay, switched power    |

**C135** (BK)**12A581**

ABS control module (2C219)



FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | -           | not used                                           |
| 2   | 534 (YE/LG) | Voltage supplied at all times (overload protected) |
| 3   | 1908 (WH-)  | High speed CAN +                                   |
| 4   | -           | not used                                           |
| 5   | -           | not used                                           |
| 6   | -           | not used                                           |
| 7   | -           | not used                                           |
| 8   | -           | not used                                           |
| 9   | -           | not used                                           |
| 10  | -           | not used                                           |
| 11  | -           | not used                                           |
| 12  | 521 (TN/OG) | Wheel speed sensor, left front (2C205) +           |
| 13  | 522 (TN/BK) | Wheel speed sensor, left front (2C205) -           |
| 14  | -           | not used                                           |
| 15  | -           | not used                                           |
| 16  | 530 (LG/YE) | Chassis Ground                                     |
| 17  | -           | not used                                           |
| 18  | 1909 (BK)   | High speed CAN -                                   |
| 19  | -           | not used                                           |
| 20  | -           | not used                                           |
| 21  | 679 (GY/BK) | Vehicle Speed Sensor (VSS), signal                 |
| 22  | -           | not used                                           |
| 23  | -           | not used                                           |

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 24  | -           | not used                                           |
| 25  | -           | not used                                           |
| 26  | 514 (YE/RD) | Wheel speed sensor, right front (2C204) +          |
| 27  | 516 (YE/BK) | Wheel speed sensor, right front (2C204) -          |
| 28  | -           | not used                                           |
| 29  | -           | not used                                           |
| 30  | -           | not used                                           |
| 31  | 532 (OG/YE) | Voltage supplied at all times (overload protected) |
| 32  | 533 (TN/RD) | Voltage in Run (overload protected)                |
| 33  | -           | not used                                           |
| 34  | -           | not used                                           |
| 35  | -           | not used                                           |
| 36  | -           | not used                                           |
| 37  | -           | not used                                           |
| 38  | -           | not used                                           |
| 39  | -           | not used                                           |
| 40  | -           | not used                                           |
| 41  | 519 (LG/BK) | Rear axle speed sensor (4B409) -                   |
| 42  | 523 (RD/PK) | Rear axle speed sensor (4B409) +                   |
| 43  | -           | not used                                           |
| 44  | -           | not used                                           |
| 45  | 530 (LG/YE) | Chassis Ground                                     |
| 46  | -           | not used                                           |

**C174** (aY)

**12B637**

Ignition transformer  
capacitor 1 (18801)



FEMALE

| Pin | Circuit    | Circuit function                                          |
|-----|------------|-----------------------------------------------------------|
| 1   | 16 (RD/LG) | Voltage supplied in Start and Run<br>(overload protected) |

**C194** (aY)

**12B637**

Ignition transformer  
capacitor 2 (18801)



FEMALE

| Pin | Circuit    | Circuit function                                          |
|-----|------------|-----------------------------------------------------------|
| 1   | 16 (RD/LG) | Voltage supplied in Start and<br>Run (overload protected) |

**C152** (BK)

**15A211**

Fog lamp, left front (152C0)

FEMALE

| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | 57 (BK)    | Ground                               |
| 2   | 478 (TM/G) | Fog lamp relay, output, to fog lamps |

**C162** (BK)

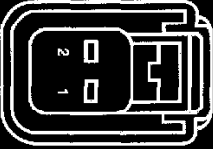
**15A211**

Fog lamp, right front (152C0)

FEMALE

| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | 57 (BK)    | Ground                               |
| 2   | 478 (TM/G) | Fog lamp relay, output, to fog lamps |

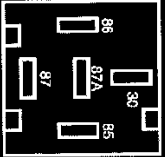
**C1328** (BM)  
**9F759**  
Fuel heater



FEMALE

| Pin | Circuit    | Circuit function                   |
|-----|------------|------------------------------------|
| 1   | 16 (FD/LG) | Fuel heater relay, switched output |
| 2   | 57 (BK)    | Ground                             |

**C1329**  
**12A581**  
Fuel heater relay

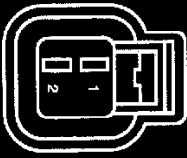


FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 30  | 1044 (WH/YE) | Voltage supplied at all times (overload protected)     |
| 85  | 57 (BK)      | Ground                                                 |
| 86  | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 87  | 853 (DB)     | Fuel heater relay, switched output                     |
| 87A | —            | not used                                               |



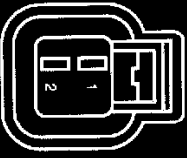
**C181** (GV)  
**12B637**  
Fuel Injector 1 (9F5383)



FEMALE

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 555 (TN)    | Fuel injector 1, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C182** (GV)  
**12B637**  
Fuel Injector 2 (9F5583)

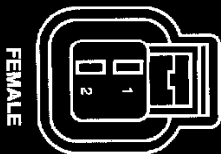


FEMALE

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 556 (WH)    | Fuel injector 2, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C183** (GY)**12B637**

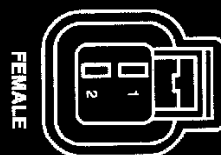
Fuel Injector 3 (9F5S93)



| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 557 (BN/YE) | Fuel Injector 3, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C184** (GY)**12B637**

Fuel Injector 4 (9F5S93)

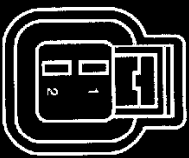


| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 558 (BN/LB) | Fuel Injector 4, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C185** (GY)

**12B637**

Fuel injector 5 (9F593)



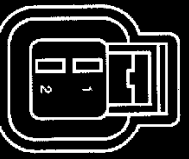
FEMALE

| Pin | Circuit    | Circuit function                |
|-----|------------|---------------------------------|
| 1   | 559 (TNBK) | Fuel injector 5, control        |
| 2   | 391 (RDYE) | PCM power relay, switched power |

**C186** (GY)

**12B637**

Fuel injector 6 (9F593)



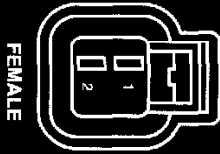
FEMALE

| Pin | Circuit    | Circuit function                |
|-----|------------|---------------------------------|
| 1   | 560 (LGOG) | Fuel injector 6, control        |
| 2   | 391 (RDYE) | PCM power relay, switched power |

**C187** (GY)

**12B637**

Fuel Injector 7 (9F5S93)

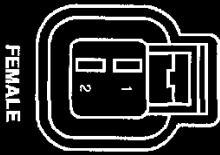


| Pin | Circuit      | Circuit function                |
|-----|--------------|---------------------------------|
| 1   | 561 (TIN/ID) | Fuel injector 7, control        |
| 2   | 391 (RD/YE)  | PCM power relay, switched power |

**C188** (GY)

**12B637**

Fuel Injector 8 (9F5S93)



| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 562 (LB)    | Fuel injector 8, control        |
| 2   | 391 (RD/YE) | PCM power relay, switched power |

**C1360** (BK)

**9D930**

**12B637**

Injection  
Pressure  
Regulator  
(IP-2)



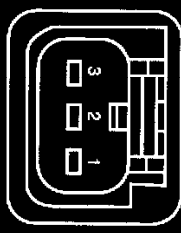
**FEMALE**

| Pin | Circuit     | Circuit function                |
|-----|-------------|---------------------------------|
| 1   | 361 (RD)    | PCM power relay, switched power |
| 2   | 552 (YE/RD) | Switched ground                 |

**C435** (GY)

**14405**

Fuel tank  
pressure  
transducer sensor  
(3C0362)



**FEMALE**

| Pin | Circuit      | Circuit function                                        |
|-----|--------------|---------------------------------------------------------|
| 1   | 3074 (BK/OG) | Fuel tank pressure transducer sensor, voltage reference |
| 2   | 1703 (RD/G)  | Signal return                                           |
| 3   | 791 (RD/PK)  | Fuel tank pressure transducer sensor (3C0362), signal   |

**C1073** (BK)**12B637**Injector  
Pressure  
Sensor (IPS)

FEMALE

| Pin | Circuit      | Circuit function                            |
|-----|--------------|---------------------------------------------|
| 1   | 12B9 (OG/LG) | Fuel rail pressure sensor signal            |
| 2   | 3073 (RD/WH) | Fuel rail pressure sensor reference voltage |
| 3   | 225 (BK/YE)  | Fuel rail temperature sensor signal         |
| 4   | 359 (GN/RD)  | Signal return                               |

**C1244** (BK)**12B637**Injection  
Control  
Pressure  
(ICP) sensor

FEMALE

| Pin | Circuit     | Circuit function                   |
|-----|-------------|------------------------------------|
| 1   | 359 (GY/RD) | Signal return                      |
| 2   | 351 (BN/WH) | Reference voltage                  |
| 3   | 812 (DB/LG) | Injection pressure sensor, monitor |

**C433** (BK)  
**14405**  
 Fuel pump driver module (9H307)

Gasoline  
  
**FEMALE**

| Pin | Circuit      | Circuit function                           |
|-----|--------------|--------------------------------------------|
| 1   | 2022 (BN/OG) | Fuel pump driver module return             |
| 2   | 866 (WH)     | Inertia fuel shut off switch ground        |
| 3   | 57 (BK)      | Ground                                     |
| 4   | 922 (WH/RD)  | Fuel pump driver module to fuel pump motor |
| 5   | 787 (PK/BK)  | Fuel pump, Power                           |
| 6   | 926 (LB/OG)  | Fuel pump driver module control signal     |

**C2194** (GY)  
**14401**  
 Fuel tank selector switch (9A050)

**FEMALE**

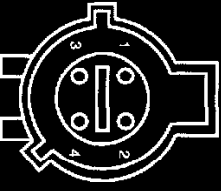
| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 789 (BN/WH)  | Fuel tank selector valve +/-                     |
| 2   | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected) |
| 3   | 786 (RD)     | Switched ground                                  |
| 4   | 786 (RD)     | Fuel tank selector valve +/-                     |
| 5   | 57 (BK)      | Ground                                           |
| 6   | 789 (BN/WH)  | Fuel tank selector valve +/-                     |

**C4132** (GV)  
**14405**  
Fuel tank selector valve



| Pin | Circuit     | Circuit function             |
|-----|-------------|------------------------------|
| 1   | -           | not used                     |
| 2   | 786 (RD)    | Fuel tank selector valve +/- |
| 3   | 789 (BN/WH) | Fuel tank selector valve +/- |
| 4   | 57 (BK)     | Ground                       |
| 5   | 57 (BK)     | Ground                       |
| 6   | 57 (BK)     | Ground                       |

**C434** (BK)  
**14405**  
Fuel tank unit (9H307)



FEMALE

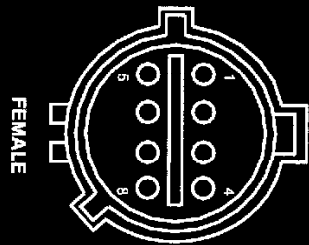
| Pin | Circuit     | Circuit function                   |
|-----|-------------|------------------------------------|
| 1   | 922 (WH/RD) | Sensor, Power                      |
| 2   | 29 (Y/EMH)  | Fuel sender (9H307), signal        |
| 3   | 866 (WH)    | Inertia fuel shutoff switch ground |
| 4   | 396 (BK/OG) | Fuel sender (9H307), return        |



# **C4033** (BK)

## **14405**

Fuel tank unit  
(9H307)



| Pin | Circuit      | Circuit function                                        |
|-----|--------------|---------------------------------------------------------|
| 1   | -            | not used                                                |
| 2   | 1703 (RD/LG) | Signal return                                           |
| 3   | 791 (RD/PK)  | Fuel tank pressure transducer sensor (9C368) signal     |
| 4   | 3074 (BK/OG) | Fuel tank pressure transducer sensor, reference voltage |
| 5   | 29 (YE/WH)   | Fuel sender, signal                                     |
| 6   | 866 (WH)     | Inertia Fuel Shutoff (IFS) switch, ground               |
| 7   | 922 (WH/RD)  | Fuel pump, Power                                        |
| 8   | 396 (BK/OG)  | Fuel sender, return                                     |

# **C1035**

## **12A561**

Battery Junction  
Box (BJB)  
(14A067)

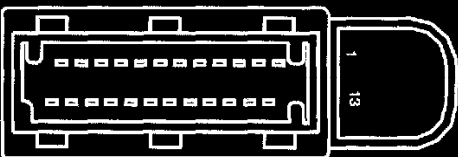


| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

**C270a** (BK)

**14401**

Central Junction  
Box (CJB)  
(14A087)



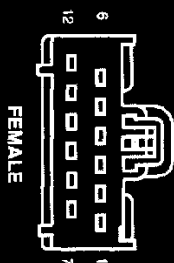
| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 54 (LG/YE)   | Battery saver relay, switched output                   |
| 2   | 1000 (RD/BK) | Voltage supplied in Start (overload protected)         |
| 3   | 22 (LB/BK)   | Voltage supplied at all times (overload protected)     |
| 4   | -            | not used                                               |
| 5   | 298 (VT/OG)  | Voltage in Run (overload protected)                    |
| 6   | -            | not used                                               |
| 7   | 1306 (PK/WH) | Voltage supplied at all times (overload protected)     |
| 8   | 640 (RD/YE)  | Voltage supplied in Start and Run (overload protected) |
| 9   | -            | not used                                               |
| 10  | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected)       |
| 11  | 57 (BK)      | Ground                                                 |
| 12  | 295 (LB/PK)  | Voltage in Run (overload protected)                    |

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 13  | 12 (LG/BK)  | Power, Hot with High Beams on                      |
| 14  | 1332 (LB)   | Accessory delay relay, control                     |
| 15  | 705 (LG/OG) | Voltage supplied at all times (overload protected) |
| 16  | 294 (WH/LB) | Voltage in Run (overload protected)                |
| 17  | 275 (YE)    | Fog lamp relay, control                            |
| 18  | 609 (OG/YE) | Voltage in Run (overload protected)                |
| 19  | 1 (DB)      | Horn relay, control                                |
| 20  | 296 (WH/VT) | Voltage in Run (overload protected)                |
| 21  | 295 (LB/PK) | Voltage in Run (overload protected)                |
| 22  | 238 (DG/YE) | Fuel pump relay, switched power, output            |
| 23  | 194 (PK)    | Accessory delay relay, switched output             |
| 24  | -           | not used                                           |

# **C270b (GY)**

**14401**

Central Junction  
Box (CJB)  
(14A067)

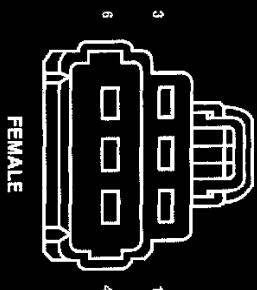


| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 1792 (PK)   | Voltage supplied at all times (overload protected) |
| 2   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |
| 3   | -           | not used                                           |
| 4   | -           | not used                                           |
| 5   | 14 (BN)     | Power, Exterior lamps                              |
| 6   | 785 (BK/LG) | Voltage supplied at all times (overload protected) |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                      |
| 8   | 1522 (DG)   | Voltage supplied in Start (overload protected)     |
| 9   | 12 (LG/BK)  | Power, Hot with High Beams on                      |
| 10  | 195 (TN/WH) | Voltage supplied at all times (overload protected) |
| 11  | -           | not used                                           |
| 12  | 196 (DB/OG) | Voltage supplied at all times (overload protected) |

# **C270c (BK)**

**14401**

Central Junction  
Box (CJB)  
(14A067)



| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 1040 (RD/BK) | Voltage supplied in Run (overload protected)               |
| 2   | 37 (YE)      | Voltage supplied at all times (overload protected)         |
| 3   | 1050 (LG/VT) | Voltage supplied at all times (overload protected)         |
| 4   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected)     |
| 5   | 687 (GY/YE)  | Voltage supplied in Run (overload protected)               |
| 6   | 964 (DB/LG)  | Voltage supplied in Accessory and Run (overload protected) |

**C270d** (GY)  
**14401**  
 Central Junction  
 Box (CJB)  
 (14A067)

\* w/ Adjustable pedals

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 1   | 3049 (BK/LG)  | Voltage supplied at all times (overload protected) |
| 2   | -             | not used                                           |
| 3   | *1567 (RD/LB) | Voltage supplied at all times (overload protected) |
| 4   | -             | not used                                           |
| 5   | 797 (LG/VT)   | Voltage supplied at all times (overload protected) |
| 6   | *400 (LB/BK)  | Accessory delay relay, switched output             |
| 7   | 40 (LB/WH)    | Voltage supplied at all times (overload protected) |
| 8   | 19 (LB/RD)    | Instrument illumination, feed                      |

**C270e** (BK)  
**14401**  
 Central Junction  
 Box (CJB)  
 (14A067)

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 50 (RD)      | Voltage supplied at all times (overload protected) |
| 2   | 1049 (BN/PK) | Voltage supplied at all times (overload protected) |
| 3   | *116 (RD/BK) | Voltage supplied at all times (overload protected) |
| 4   | 325 (DB/OG)  | Voltage supplied at all times (overload protected) |

**C270f** (BK)  
**12A581**

Central Junction  
Box (CJB)  
(14A067)

FEMALE

\*6.0L  
\*\*others  
\*\*\*under hood lamp

| Pin | Circuit       | Circuit function                               |
|-----|---------------|------------------------------------------------|
| 1   | -             | not used                                       |
| 2   | 161 (DG/OG)   | Headlamp, right (13008), (Low beam lamp feed)  |
| 3   | 160 (DB/WH)   | Headlamp, left (13008), (Low beam lamp feed)   |
| 4   | -             | not used                                       |
| 5   | *57 (BK)      | Ground                                         |
|     | **570 (BK/WH) |                                                |
| 6   | 33 (WH/PK)    | Voltage supplied in Start (overload protected) |
| 7   | ***54 (LG/YE) | Battery saver relay, switched output           |
| 8   | 324 (YE/LG)   | Reversing lamps relay, control                 |
| 9   | 329 (PK)      | Starter relay, control                         |
| 10  | 570 (BK/WH)   | Ground                                         |
|     | *926 (LB/OG)  | Fuel pump relay, control                       |
| 11  | 57 (BK)       | Ground                                         |
| 12  | 321 (GY/WH)   | A/C clutch relay, switched output              |

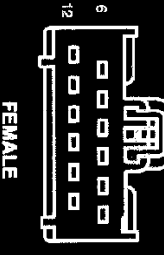
**C270g** (BK)  
**12A581**

Central Junction  
Box (CJB)  
(14A067)

FEMALE

| Pin | Circuit     | Circuit function                                  |
|-----|-------------|---------------------------------------------------|
| 1   | 140 (BK/PK) | Reversing lamps relay, switched output            |
| 2   | 113 (YE/LB) | Starter relay (11450) switched power, output      |
| 3   | -           | not used                                          |
| 4   | 13 (RD/BK)  | Power, Hot with Low Beams on                      |
| 5   | -           | not used                                          |
| 6   | 49 (OG)     | Trailer tow battery charge relay, switched output |
| 7   | -           | not used                                          |
| 8   | -           | not used                                          |

**C270h** (BK)  
**12A581**  
Central Junction  
Box (CJB)  
(14A057)



**FEMALE**

| Pin | Circuit     | Circuit function                               |
|-----|-------------|------------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                  |
| 2   | 478 (TN/OG) | Fog lamp relay, output, to fog lamps           |
| 3   | 14 (BN)     | Power, Exterior lamps                          |
| 4   | —           | not used                                       |
| 5   | 361 (RD)    | PCM power relay, switched power                |
| 6   | 391 (RD/YE) | PCM power relay, switched power                |
| 7   | 295 (LB/PK) | Voltage supplied in Run (overload protected)   |
| 8   | 33 (WH/PK)  | Voltage supplied in Start (overload protected) |
| 9   | 6 (YE/LG)   | Horn relay, switched power, output             |
| 10  | —           | not used                                       |
| 11  | —           | not used                                       |
| 12  | —           | not used                                       |

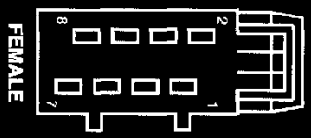
**C270j** (BK)  
**14A005**  
Central Junction  
Box (CJB)  
(14A057)



**FEMALE**

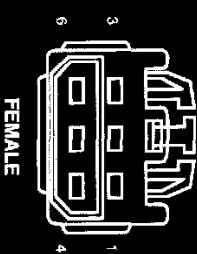
| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | —           | not used                                           |
| 2   | —           | not used                                           |
| 3   | 956 (OG/LG) | Voltage supplied at all times (overload protected) |
| 4   | —           | not used                                           |
| 5   | —           | not used                                           |
| 6   | —           | not used                                           |
| 7   | 59 (DG/YT)  | HTD mirror relay, switched output                  |
| 8   | —           | not used                                           |
| 9   | —           | not used                                           |
| 10  | 295 (LB/PK) | Voltage supplied in Run (overload protected)       |
| 11  | 194 (PK)    | Accessory delay relay, switched output             |
| 12  | 14 (BN)     | Power, Exterior lamps                              |
| 13  | —           | not used                                           |
| 14  | 295 (LB/PK) | Voltage supplied in Run (overload protected)       |
| 15  | 962 (BN/WH) | Trailer tow relay, parking lamp, switched output   |
| 16  | 54 (LG/YE)  | Battery saver relay, switched output               |

**C270K (WH)**  
**14A303**  
 Central Junction  
 Box (CJB)  
 (14A087)



| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | -            | not used                                               |
| 2   | 1447 (RD)    | Voltage supplied at all times (overload protected)     |
| 3   | -            | not used                                               |
| 4   | 1717 (VT/OG) | Voltage supplied in Start and Run (overload protected) |
| 5   | 19 (LB/RD)   | Instrument illumination, feed                          |
| 6   | 1445 (RD/LG) | Voltage supplied at all times (overload protected)     |
| 7   | 1446 (RD/LB) | Voltage supplied at all times (overload protected)     |
| 8   | 1448 (OG/RD) | Voltage supplied at all times (overload protected)     |

**C270I (GY)**  
**14A005**  
 Central Junction  
 Box (CJB)  
 (14A087)



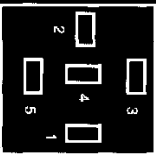
| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | -            | not used                                           |
| 2   | -            | not used                                           |
| 3   | 1153 (RD/BK) | Voltage supplied at all times (overload protected) |
| 4   | 51 (BK/WH)   | Voltage supplied at all times (overload protected) |
| 5   | 566 (DG)     | Voltage supplied at all times (overload protected) |
| 6   | 400 (LB/BK)  | Accessory delay relay, switched output             |

**C270p**  
**12A581**  
Central Junction  
Box (CJB)  
(14A087)



| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

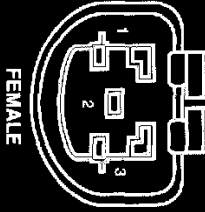
**C2047**  
**14401**  
Indicator  
flasher relay  
(13350)



| Pin | Circuit     | Circuit function                                        |
|-----|-------------|---------------------------------------------------------|
| 1   | 44 (LB)     | Indicator flasher relay<br>(13350), Turn signal, output |
| 2   | 295 (LB/PK) | Voltage supplied in run (overload protected)            |
| 3   | 10 (LG/RD)  | Voltage supplied at all times<br>(overload protected)   |
| 4   | 385 (WH/RD) | Indicator flasher relay<br>(13350), Hazard, output      |
| 5   | 57 (BK)     | Ground                                                  |



**C1041** (GY)  
**12A581**  
Headlamp, right (13008)



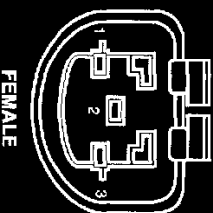
| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                 |
| 2   | 57 (BK)     | Ground                                        |
| 3   | 161 (DG/OG) | Headlamp, right (13008), (Low beam lamp feed) |

**C1285** (BK)  
**13A006**  
Headlamp, right  
(13008) (sealed beam)



| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                 |
| 2   | 57 (BK)     | Ground                                        |
| 3   | 161 (DG/OG) | Headlamp, right (13008), (Low beam lamp feed) |

**C1021** (GY)  
**12A581**  
Headlamp, left (13008)

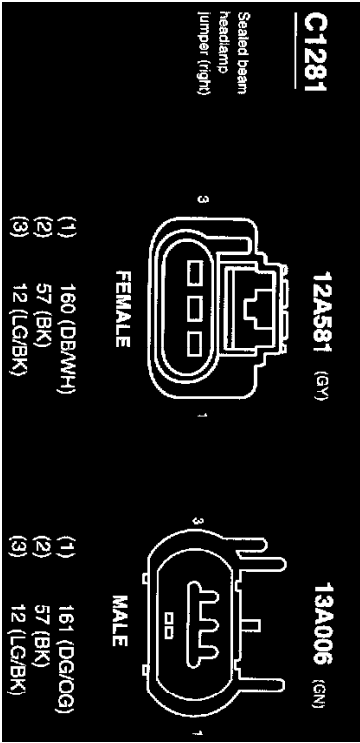
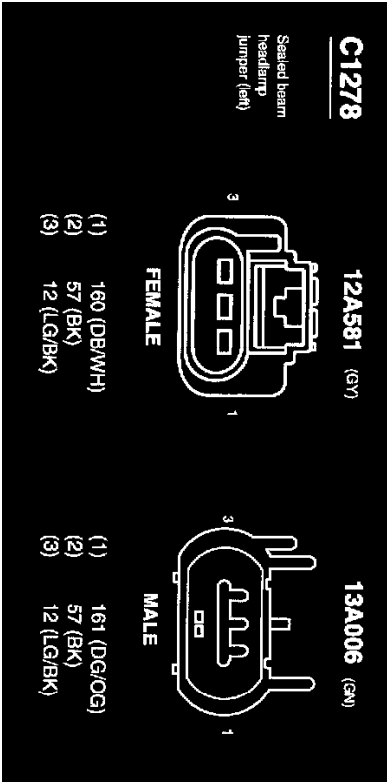


| Pin | Circuit      | Circuit function                             |
|-----|--------------|----------------------------------------------|
| 1   | 160 (DB/W/H) | Headlamp, left (13008), (Low beam lamp feed) |
| 2   | 57 (BK)      | Ground                                       |
| 3   | 12 (LG/BK)   | Power, Hot with High Beams on                |

**C1284** (BK)  
**13A006**  
Headlamp, left (13008)  
(sealed beam)

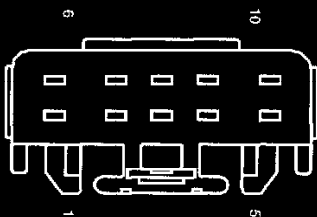


| Pin | Circuit      | Circuit function                             |
|-----|--------------|----------------------------------------------|
| 1   | 12 (LG/BK)   | Power, Hot with High Beams on                |
| 2   | 57 (BK)      | Ground                                       |
| 3   | 160 (DB/W/H) | Headlamp, left (13008), (Low beam lamp feed) |



**C202a** (GV)**14401**

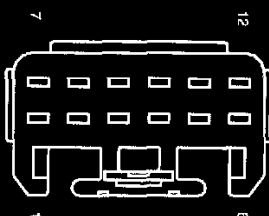
Multifunction switch



| Pin | Circuit     | Circuit function                                    |
|-----|-------------|-----------------------------------------------------|
| 1   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps   |
| 2   | 44 (LB)     | Indicator flasher relay (13350), turn signal output |
| 3   | 385 (WH/RD) | Indicator flasher relay (13350), hazard, output     |
| 4   | -           | not used                                            |
| 5   | -           | not used                                            |
| 6   | 196 (DB/OG) | Voltage supplied at all times (overload protected)  |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                       |
| 8   | 15 (RD/YE)  | Power, Hot with Headlamps on                        |
| 9   | 13 (RD/BK)  | Power, Hot with Low Beams on                        |
| 10  | -           | not used                                            |

**C202b** (GV)**14401**

Multifunction switch

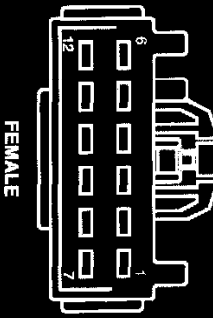


| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 63 (RD)    | Front wiper switch circuit A  |
| 2   | 56 (DB/OG) | Front wiper switch circuit C  |
| 3   | 58 (WH)    | Front wiper switch circuit B  |
| 4   | 61 (YE/RD) | Front wiper switch circuit H  |
| 5   | 589 (OG)   | Front washer switch circuit W |
| 6   | 57 (BK)    | Ground                        |
| 7   | 2 (WH/LB)  | Turn lamps, feed, right front |
| 8   | 5 (OG/LB)  | Turn lamps, feed, right rear  |
| 9   | 9 (LG/OG)  | Turn lamps, feed, left rear   |
| 10  | 3 (LG/WH)  | Turn lamps, feed, left front  |
| 11  | -          | not used                      |
| 12  | -          | not used                      |

**C205a** (GY)

**14401**

Main light switch  
(11654)



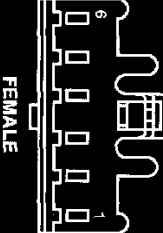
FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | -            | not used                                           |
| 2   | 14 (BN)      | Power, exterior lamps                              |
| 3   | -            | not used                                           |
| 4   | -            | not used                                           |
| 5   | 275 (YE)     | Fog lamp relay, feed                               |
| 6   | 57 (BK)      | Ground                                             |
| 7   | 1399 (DB/WH) | Voltage supplied with autolamps on                 |
| 8   | 196 (DB/OG)  | Voltage supplied at all times (overload protected) |
| 9   | 16 (RD/YE)   | Power, Hot with Headlamps on                       |
| 10  | 195 (TN/W-H) | Voltage supplied at all times (overload protected) |
| 11  | -            | not used                                           |
| 12  | 14 (BN)      | Power, exterior lamps                              |

**C205b** (BK)

**14401**

Main light switch  
(11654)



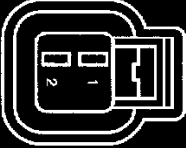
FEMALE

| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 19 (LB/RD) | Instrument illumination, feed |
| 2   | 402 (OG/G) | Interior lamps control        |
| 3   | -          | not used                      |
| 4   | 57 (BK)    | Ground                        |
| 5   | -          | not used                      |
| 6   | 14 (BN)    | Power, Exterior lamps         |

**C131** (BK)

**12A581**

Horn (13832)



FEMALE

| Pin | Circuit   | Circuit function                   |
|-----|-----------|------------------------------------|
| 1   | 57 (BK)   | Ground                             |
| 2   | 6 (YEL/G) | Horn relay, switched power, output |

**C111** (BK)

**12B637**

Coil On Plug (COP) 1 (12A366)



FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1024 (LG/WH) | Coil On Plug (COP) 1 control                           |

**C112** (BK)

**12B637**

Coil On Plug (COP) 2 (12A366)

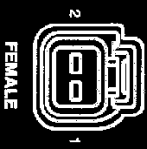


| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)  | Voltage supplied in Start and Run (overload protected) |
| 2   | 1026 (PKWH) | Coil On Plug (COP) 2 control                           |

**C113** (BK)

**12B637**

Coil On Plug (COP) 3 (12A366)

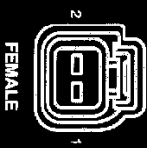


| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1028 (WH/PK) | Coil On Plug (COP) 3 control                           |

**C114** (BK)

**12B637**

Coil On Plug (COP) 4 (12A366)

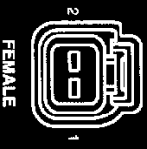


| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)  | Voltage supplied in Start and Run (overload protected) |
| 2   | 1030 (DGNT) | Coil On Plug (COP) 4 control                           |

**C115** (BK)

**12B637**

Coil On Plug (COP) 5 (12A366)



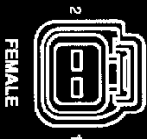
| Pin | Circuit     | Circuit function                                       |
|-----|-------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)  | Voltage supplied in Start and Run (overload protected) |
| 2   | 1021 (LGVE) | Coil On Plug (COP) 5 control                           |



**C116 (BK)**

**12B637**

Coil On Plug (COP) 6 (12A366)

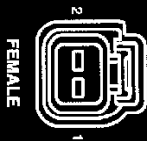


| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1025 (OG/YE) | Coil On Plug (COP) 6 control                           |

**C117 (BK)**

**12B637**

Coil On Plug (COP) 7 (12A366)



| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (FD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1027 (PK/LB) | Coil On Plug (COP) 7 control                           |

**C118** (BK)

**12B637**

Coil On Plug (COP) 8 (12A369)



FEMALE

| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected) |
| 2   | 1028 (WH/RD) | Coil On Plug (COP) 8 control                           |

**C174** (GY)

**12B637**

Ignition transformer capacitor 1 (18901)



FEMALE

| Pin | Circuit    | Circuit function                                       |
|-----|------------|--------------------------------------------------------|
| 1   | 16 (RD/LG) | Voltage supplied in Start and Run (overload protected) |

**C194** (GY)

**12B637**

Ignition transformer  
capacitor 2 (18801)



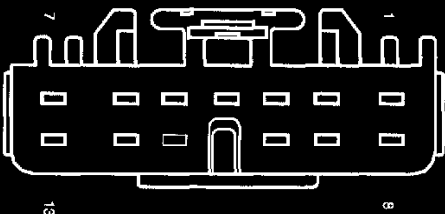
FEMALE

| Pin | Circuit    | Circuit function                                       |
|-----|------------|--------------------------------------------------------|
| 1   | 16 (RD/LG) | Voltage supplied in Start and Run (overload protected) |

**C250** (GY)

**14401**

Ignition Switch



FEMALE

| Pin | Circuit      | Circuit function                                          |
|-----|--------------|-----------------------------------------------------------|
| 1   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected)    |
| 2   | 325 (DB/OG)  | Voltage supplied at all times (overload protected)        |
| 3   | 964 (DB/LG)  | Voltage supplied in Accessory or Run (overload protected) |
| 4   | -            | not used                                                  |
| 5   | 1522 (DG)    | Voltage supplied in Start (overload protected)            |
| 6   | -            | not used                                                  |
| 7   | 37 (YE)      | Voltage supplied at all times (overload protected)        |
| 8   | 687 (GY/YE)  | Voltage supplied in Run (overload protected)              |
| 9   | 1050 (LG/VT) | Voltage supplied at all times (overload protected)        |
| 10  | -            | not used                                                  |
| 11  | -            | not used                                                  |
| 12  | 37 (YE)      | Voltage supplied at all times (overload protected)        |
| 13  | 1040 (RD/BK) | Voltage supplied in Run (overload protected)              |

**C2207** (GV)

**14401**

Inertia Fuel  
Shutoff (IFS)  
(9D362)

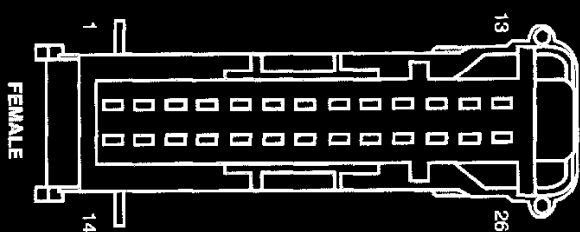


**FEMALE**

| Pin | Circuit     | Circuit function                        |
|-----|-------------|-----------------------------------------|
| 1   | 787 (PK/BK) | Fuel pump, Power                        |
| 2   | 238 (DG/YE) | Fuel pump relay, switched power, output |
| 3   | -           | not used                                |

**C220a** (BK)**14401**

Instrument Cluster



\*with message center  
 \*\*w/compass  
 \*\*\*dual tanks

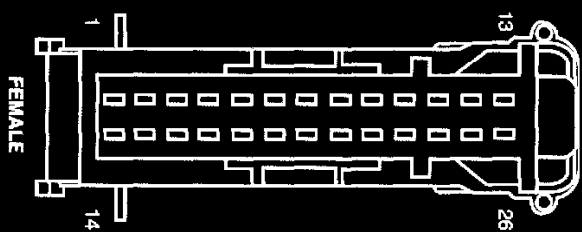
| Pin | Circuit        | Circuit function                                       |
|-----|----------------|--------------------------------------------------------|
| 1   | 3 (LG/WH)      | Turn lamps, feed, left front                           |
| 2   | 12 (LG/BK)     | Power, hot with high beams on                          |
| 3   | 2 (WH/LB)      | Turn lamps, feed, right front                          |
| 4   | -              | not used                                               |
| 5   | ***789 (BN/WH) | Fuel tank selector valve +/-                           |
| 6   | 1083 (LB/PK)   | Air bag, lone driver                                   |
| 7   | -              | not used                                               |
| 8   | -              | not used                                               |
| 9   | -              | not used                                               |
| 10  | 57 (BK)        | Ground                                                 |
| 11  | -              | not used                                               |
| 12  | 19 (LB/RD)     | Instrument illumination, feed                          |
| 13  | 640 (RD/YE)    | Voltage supplied in Start and Run (overload protected) |

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 14  | 608 (BK/YE)   | Air bag indicator, control                         |
| 15  | 904 (LG/RD)   | Generator/Battery indicator, control               |
| 16  | -             | not used                                           |
| 17  | -             | not used                                           |
| 18  | **703 (WH/OG) | Compass data -                                     |
| 19  | **702 (WH/BK) | Compass data +                                     |
| 20  | *1411 (GY/OG) | Message center switch input                        |
| 21  | *143 (LB/YE)  | Message center switch, power                       |
| 22  | 1002 (BK/PK)  | Voltage in Run or Accessory (overload protected)   |
| 23  | -             | not used                                           |
| 24  | 156 (BK/PK)   | Key warning switch (11A127), input                 |
| 25  | 54 (LG/YE)    | Battery saver relay, switched output               |
| 26  | 705 (LG/OG)   | Voltage supplied at all times (overload protected) |

**C220b (BL)****14401**

Instrument Cluster

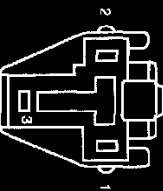
\* w/ RKE



| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 531 (DG/YE) | Brake fluid level switch (2L414), signal           |
| 2   | -           | not used                                           |
| 3   | 85 (BN/LB)  | Safety belt buckle switch (10B924), input          |
| 4   | 1332 (LB)   | Accessory delay relay, control                     |
| 5   | -           | not used                                           |
| 6   | 1909 (BK)   | High speed CAN -                                   |
| 7   | 1908 (WH)   | High speed CAN +                                   |
| 8   | 386 (BK/OG) | Fuel sender, return                                |
| 9   | 675 (YE/LB) | Reference voltage                                  |
| 10  | 29 (YE/WH)  | Fuel pump/fuel gauge, signal                       |
| 11  | 693 (OG)    | UBP Diagnostics                                    |
| 12  | 676 (PK/OG) | Ground                                             |
| 13  | 785 (BK/LG) | Voltage supplied at all times (overload protected) |

| Pin | Circuit      | Circuit function                                               |
|-----|--------------|----------------------------------------------------------------|
| 14  | 512 (TN/LG)  | Brake fluid level switch (2L414), return                       |
| 15  | 1308 (BN/OG) | Engine oil pressure indicator, control                         |
| 16  | -            | not used                                                       |
| 17  | 142 (LB/RD)  | Air filter sensor signal, input - Diesel only                  |
| 18  | 162 (LG/RD)  | Parking brake switch, input                                    |
| 19  | 3049 (BK/LG) | Voltage supplied at all times (overload protected)             |
| 20  | -            | not used                                                       |
| 21  | 210 (LB)     | Four-wheel drive High indicator, control                       |
| 22  | 975 (BN/YE)  | Four-wheel drive Low indicator, control                        |
| 23  | 760 (PK/LB)  | * Door ajar switch, right rear, signal                         |
| 24  | 759 (LG/YE)  | * Door ajar switch, right front, right rear, left rear, signal |
| 25  | 402 (OG/LG)  | * Door ajar switch, left rear, signal                          |
| 26  | 53 (BK/LB)   | Interior lamps control                                         |

**C2031** (TN)  
**14401**  
Cigar lighter,  
(15055)



FEMALE

| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 40 (LB/WH) | Voltage supplied at all times (overload protected) |
| 2   | -          | not used                                           |
| 3   | 57 (BK)    | Ground                                             |

**C526** (BK)  
**14A005**  
Door ajar  
switch, driver  
side front  
(14018)



FEMALE

\* with remote keyless entry  
\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                     |
|-----|---------------|--------------------------------------|
| 1   | 57 (BK)       | Ground                               |
| 2   | *765 (YE/BK)  | Door ajar switch, left front, signal |
|     | **759 (LG/YE) | Door ajar switch, left front, signal |

**C602** (BK)

**14A005**

Door ajar switch, passenger side front (14018)



FEMALE

\* with remote keyless entry

\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                                             |
|-----|---------------|--------------------------------------------------------------|
| 1   | 57 (BK)       | Ground                                                       |
| 2   | **761 (GV/RD) | Door ajar switch, right front, signal                        |
|     | **760 (PK/LB) | Door ajar switch, right front, right rear, left rear, signal |

**C715** (BK)

**14A005**

Door ajar switch, driver side rear (14018)



FEMALE

\* with remote keyless entry

\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                                             |
|-----|---------------|--------------------------------------------------------------|
| 1   | 57 (BK)       | Ground                                                       |
| 2   | **759 (LG/VE) | Door ajar switch, left rear, signal                          |
|     | **760 (PK/LB) | Door ajar switch, right front, right rear, left rear, signal |



**C820** (BK)

**14A005**

Door ajar switch,  
passenger side  
rear (14018)



FEMALE

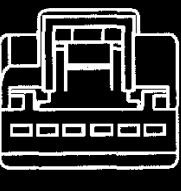
**\*W/RKE**

| Pin | Circuit                     | Circuit function                                                                                     |
|-----|-----------------------------|------------------------------------------------------------------------------------------------------|
| 1   | 57 (BK)                     | Ground                                                                                               |
| 2   | *760 (PK/LB)<br>760 (PK/LB) | Door ajar switch, right rear, signal<br>Door ajar switch, right front, right rear, left rear, signal |

**C265** (GY)

**14401**

Message Center Switch



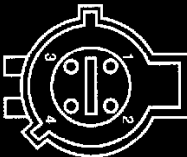
FEMALE

| Pin | Circuit      | Circuit function              |
|-----|--------------|-------------------------------|
| 1   | 19 (LB/RD)   | Instrument illumination, feed |
| 2   | 143 (LB/YE)  | Message center switch, power  |
| 3   | 1411 (GY/OG) | Message center switch input   |
| 4   | 57 (BK)      | Ground                        |
| 5   | -            | not used                      |
| 6   | -            | not used                      |

**C3094** (BK)

**14405**

Fuel  
sender,  
primary



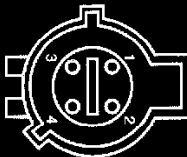
FEMALE

| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | -           | not used            |
| 2   | 675 (YE/LB) | Reference voltage   |
| 3   | -           | not used            |
| 4   | 396 (BK/OG) | Fuel sender, return |

**C3095** (BK)

**14405**

Fuel  
sender,  
secondary



FEMALE

| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | -           | not used            |
| 2   | 29 (YEM/H)  | Reference voltage   |
| 3   | -           | not used            |
| 4   | 396 (BK/OG) | Fuel sender, return |

**C1080** (BK)

**9F7/59**

Water-  
in-line  
sensor

FEMALE

| Pin | Circuit     | Circuit function  |
|-----|-------------|-------------------|
| 1   | 643 (RD)    | Reference voltage |
| 2   | 359 (GV/RD) | Signal return     |

**C500** (BK)

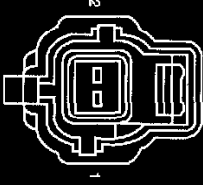
**14A631**

Key pad  
switch  
assembly

FEMALE

| Pin | Circuit      | Circuit function                  |
|-----|--------------|-----------------------------------|
| 1   | 78 (LB/YE)   | Key pad switch, Circuit A, output |
| 2   | 1013 (BN/LG) | Illumination                      |
| 3   | 79 (LG/RD)   | Key pad switch, Circuit B, output |
| 4   | -            | not used                          |
| 5   | 57 (BK)      | Ground                            |
| 6   | 124 (BN)     | Key pad switch, common            |
| 7   | 121 (YE/BK)  | Key pad switch, Circuit C, output |
| 8   | -            | not used                          |

**C450** (BK)  
**14405**  
EVAP  
canister vent  
control  
solenoid



FEMALE

| Pin | Circuit    | Circuit function                                   |
|-----|------------|----------------------------------------------------|
| 1   | 1683 (DG)  | Voltage supplied at all times (overload protected) |
| 2   | 91 (VT/WH) | EVAP canister vent control solenoid control        |

**C452** (WH)  
**13412**  
License plate  
lamp, left



FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, exterior lamps |

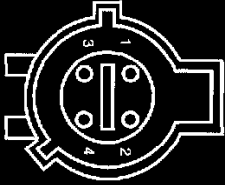
**C462** (WH)  
**13412**  
License  
plate lamp,  
right



**FEMALE**

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C438** (BK)  
**14405**  
**13A409**  
Rear marker  
lamp  
assembly



**FEMALE**

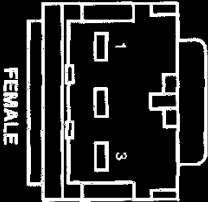
| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |
| 4   | -       | not used              |

**C970** (BK)

**15A404**

**17C712**

Roof marker  
lamp, left



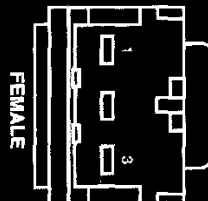
| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

**C971** (BK)

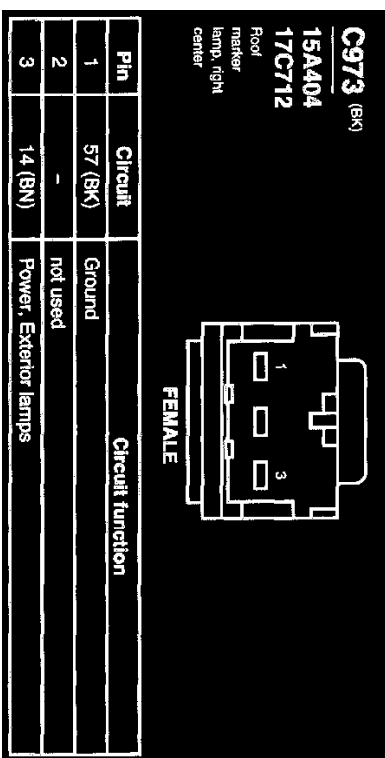
**15A404**

**17C712**

Roof marker  
lamp, left  
center

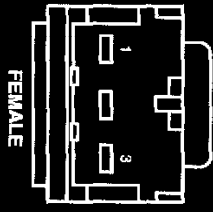


| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |



**C974** (BK)  
**15A404**  
**17C712**

Roof  
marker  
lamp, right

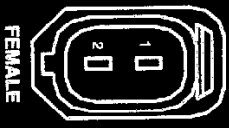


FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | -       | not used              |
| 3   | 14 (BN) | Power, Exterior lamps |

**C1127** (BK)  
**12A581**

Side lamp, left  
front (13411)



FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |



**C1126** (BK)

**12A581**

Side lamp, right front (13411)

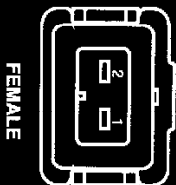


| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4094** (BK)

**13A409**

Side lamp 1,  
LT rear

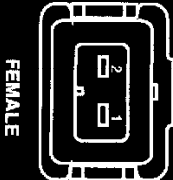


| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4096** (BK)

**13A409**

Side lamp 1,  
RH rear



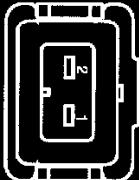
FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4095** (BK)

**13A409**

Side  
lamp 2,  
LT rear



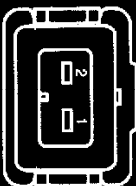
FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

**C4097** (BK)

**13A409**

Side lamp 2,  
RH rear



FEMALE

| Pin | Circuit | Circuit function      |
|-----|---------|-----------------------|
| 1   | 57 (BK) | Ground                |
| 2   | 14 (BN) | Power, Exterior lamps |

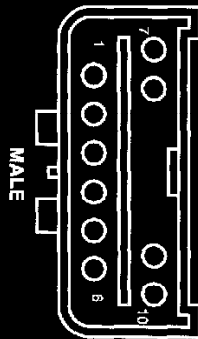
**C911** (BK)

**17C712**

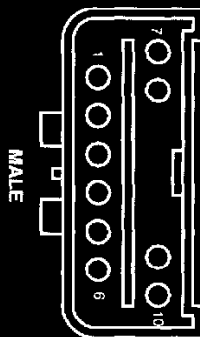
Electrochromatic  
inside mirror unit  
(17700)



| Pin | Circuit     | Circuit function                             |
|-----|-------------|----------------------------------------------|
| 1   | 640 (RD/YE) | Voltage supplied in Run (overload protected) |
| 2   | 57 (BK)     | Ground                                       |
| 3   | 140 (BK/PK) | Reversing lamps relay, switched output       |
| 4   | -           | not used                                     |
| 5   | -           | not used                                     |
| 6   | -           | not used                                     |
| 7   | -           | not used                                     |

**C521 (GY)****14A005**Exterior rear  
view mirror,  
driver side  
(17692)

| Pin | Circuit   | Circuit function                  |
|-----|-----------|-----------------------------------|
| 1   | 540 (RD)  | Right/Left mirror movement        |
| 2   | 542 (YE)  | Mirror motor, feed                |
| 3   | 541 (DB)  | Up/Down mirror movement           |
| 4   | 3 (LGWH)  | Turn lamps, feed, left front      |
| 5   | 57 (BK)   | Defrost, Turn signal, Ground      |
| 6   | 59 (DGVV) | HTD mirror relay, switched output |
| 7   | 14 (BN)   | Power, Exterior lamps             |
| 8   | -         | not used                          |
| 9   | -         | not used                          |
| 10  | -         | not used                          |

**C601 (GY)****14A005**Exterior rear  
view mirror,  
passenger side  
(17693)

| Pin | Circuit   | Circuit function                  |
|-----|-----------|-----------------------------------|
| 1   | 543 (DG)  | Right/Left mirror movement        |
| 2   | 542 (YE)  | Mirror motor, feed                |
| 3   | 544 (VT)  | Up/Down mirror movement           |
| 4   | 2 (WH/LB) | Turn lamps, feed, right front     |
| 5   | 57 (BK)   | Defrost, Turn signal, Ground      |
| 6   | 59 (DGVV) | HTD mirror relay, switched output |
| 7   | 14 (BN)   | Power, Exterior lamps             |
| 8   | -         | not used                          |
| 9   | -         | not used                          |
| 10  | -         | not used                          |

**C527** (WH)  
**14A005**  
Exterior Rear  
view Mirror  
switch  
(178676)

**FEMALE**

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 956 (OG/LG) | Voltage supplied at all times (overload protected) |
| 2   | -           | not used                                           |
| 3   | 543 (DG)    | Right/Left mirror movement                         |
| 4   | 540 (RD)    | Right/Left mirror movement                         |
| 5   | 57 (BK)     | Ground                                             |
| 6   | 542 (YE)    | Mirror motor, common                               |
| 7   | 541 (DB)    | Up/Down mirror movement                            |
| 8   | 544 (VT)    | Up/Down mirror movement                            |

**C110** (BK)  
**12A581**

**FEMALE**

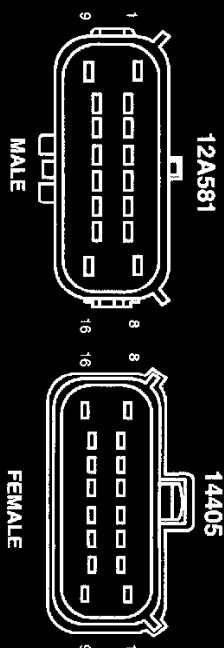
**12B637**

**MALE**

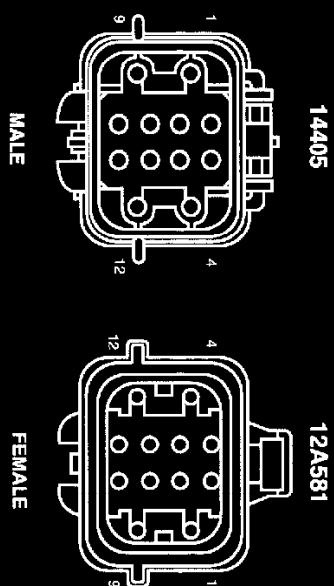
|                 |                   |                 |                   |
|-----------------|-------------------|-----------------|-------------------|
| (1) 16 (RD/LG)  | (7) -             | (1) 16 (RD/LG)  | (7) -             |
| (2) -           | (8) -             | (2) 57 (BK)     | (8) -             |
| (3) 391 (RD/YE) | (9) -             | (3) 391 (RD/YE) | (9) -             |
| (4) 361 (RD)    | (10) -            | (4) 361 (RD)    | (10) 57 (BK)      |
| (5) -           | (11) 1308 (BR/OG) | (5) -           | (11) 1308 (BR/OG) |
| (6) -           | (12) 570 (BK/WH)  | (6) -           | (12) 570 (BK/WH)  |

**C133** (GV)

\* Gas only



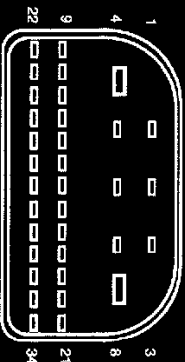
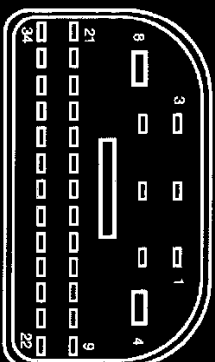
- |      |               |
|------|---------------|
| (1)  | 52 (YE)       |
| (2)  | 140 (BK/PK)   |
| (3)  | 3074 (BK/OG)  |
| (4)  | 1703 (RD/LG)  |
| (5)  | 1706 (WH/BK)  |
| (6)  | 926 (LB/OG)   |
| (7)  | 2022 (BR/OG)  |
| (8)  | 5 (OG/LB)     |
| (9)  | 64 (DG)       |
| (10) | 791 (RD/PK)   |
| (11) | * 523 (RD/PK) |
| (12) | * 519 (LG/BK) |
| (13) | 1702 (GY/LB)  |
| (14) | 391 (RD/YE)   |
| (15) | 91 (VT/MH)    |
| (16) | 9 (LG/OG)     |

**C140** (GV)\* 6.0L  
\*\* Others

- |     |               |      |               |
|-----|---------------|------|---------------|
| (1) | -             | (7)  | *140 (BK/PK)  |
| (2) | **49 (OG)     | (8)  | -             |
| (3) | *5 (OG/LB)    | (9)  | **1683 (DG)   |
| (4) | **9 (LG/OG)   | (10) | -             |
| (5) | 49 (OG)       | (11) | **963 (BK/LG) |
| (6) | **523 (RD/PK) | (12) | *52 (YE)      |
|     | **963 (BK/LG) |      | **64 (DG)     |
|     | *519 (LG/BK)  |      |               |

**C145 (GY)**

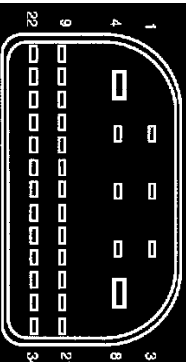
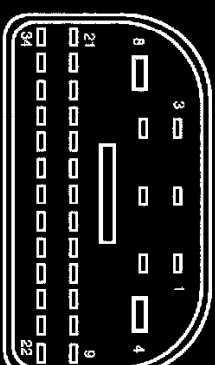
\* 6.0L  
 \*\* others  
 \*\*\* without daytime running lamps  
 \*\*\*\* with manual transmission diesel  
 + with EATC

**14401****MALE****12A581****FEMALE**

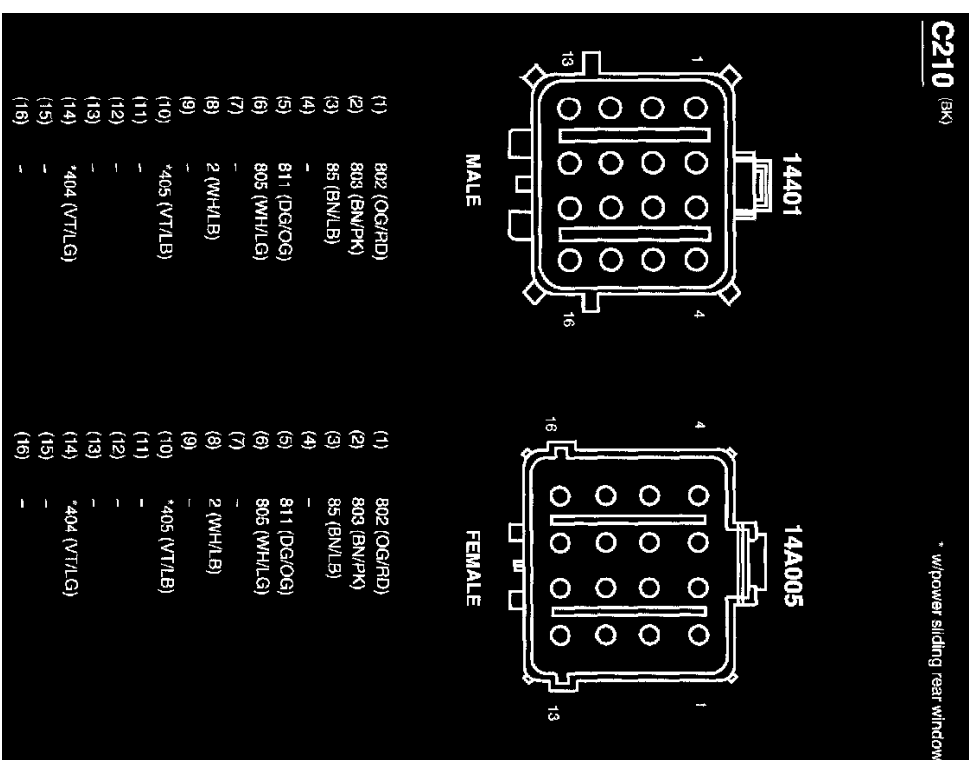
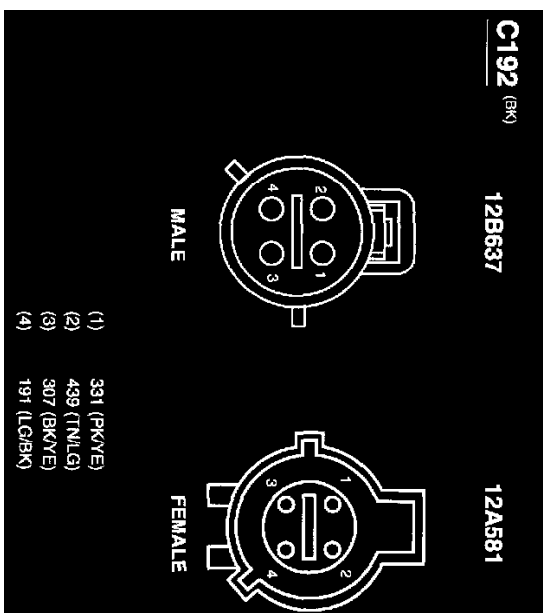
|      |              |      |               |      |              |      |                |
|------|--------------|------|---------------|------|--------------|------|----------------|
| (1)  | 16 (RD/LG)   | (18) | 3011 (BK/OG)  | (1)  | 16 (RD/LG)   | (18) | 3011 (BK/OG)   |
| (2)  | 787 (PK/BK)  | (19) | 3835 (YEW/WH) | (2)  | *787 (PK/BK) | (19) | 3835 (YEW/WH)  |
| (3)  | 15 (RD/YE)   | (20) | 9 (LG/OG)     | (3)  | **           | (20) | 9 (LG/OG)      |
| (4)  | -            | (21) | 5 (OG/LB)     | (4)  | 15 (RD/YE)   | (21) | 5 (OG/LB)      |
| (5)  | 1040 (RD/BK) | (22) | 142 (LB/RD)   | (5)  | ***          | (22) | *142 (LB/RD)   |
| (6)  | 13 (RD/BK)   | (23) | 640 (RD/YE)   | (6)  | -            | (23) | **             |
| (7)  | -            | (24) | -             | (7)  | 1040 (RD/BK) | (24) | ***640 (RD/YE) |
| (8)  | -            | (25) | -             | (8)  | 1033 (RD/YE) | (25) | -              |
| (9)  | 463 (RD/WH)  | (26) | -             | (9)  | -            | (26) | -              |
| (10) | 1002 (BK/PK) | (27) | 1886 (GY)     | (10) | -            | (27) | -              |
| (11) | -            | (28) | 162 (LG/RD)   | (11) | 463 (RD/WH)  | (28) | -              |
| (12) | 3014 (BK/WH) | (29) | 140 (BK/PK)   | (12) | 1002 (BK/PK) | (29) | **1886 (GY)    |
| (13) | 3010 (TN)    | (30) | 1308 (BN/OG)  | (13) | -            | (30) | 162 (LG/RD)    |
| (14) | 356 (DB/LG)  | (31) | 296 (WH/VT)   | (14) | 3014 (BK/WH) | (31) | 140 (BK/PK)    |
| (15) | 3061 (LB/OG) | (32) | + 57 (BK)     | (15) | 3010 (TN)    | (32) | 1308 (BN/OG)   |
| (16) | ***          | (33) | 3012 (WH)     | (16) | *356 (DB/LG) | (33) | 296 (WH/VT)    |
| (17) | 133 (BK)     | (34) | + 470 (PK/BK) | (17) | 3061 (LB/OG) | (34) | 3012 (WH)      |
|      |              |      |               |      | ***          |      | 3013 (GY/BK)   |
|      |              |      |               |      | 133 (BK)     |      | 470 (PK/BK)    |
|      |              |      |               |      | 3015 (WH/RD) |      | ***            |

**C146 (BK)**

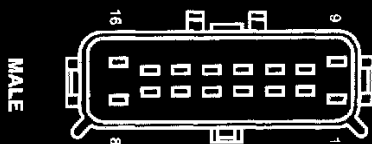
\* without daytime running lamps  
 \*\* w/4wd

**14401****MALE****12A581****FEMALE**

|      |               |      |             |      |                     |      |             |
|------|---------------|------|-------------|------|---------------------|------|-------------|
| (1)  | -             | (18) | 810 (RD/LG) | (1)  | -                   | (18) | 810 (RD/LG) |
| (2)  | 752 (YE/RD)   | (19) | 58 (WH)     | (2)  | 752 (YE/RD)         | (19) | 58 (WH)     |
| (3)  | 754 (LG/WH)   | (20) | 107 (VT)    | (3)  | 754 (LG/WH)         | (20) | 107 (VT)    |
| (4)  | -             | (21) | 904 (LG/RD) | (4)  | -                   | (21) | 904 (LG/RD) |
| (5)  | -             | (22) | 679 (GY/BK) | (5)  | -                   | (22) | 679 (GY/BK) |
| (6)  | -             | (23) | 151 (LB/BK) | (6)  | -                   | (23) | 151 (LB/BK) |
| (7)  | 570 (BK/WH)   | (24) | 399 (BN/YE) | (7)  | 570 (BK/WH)         | (24) | 399 (BN/YE) |
| (8)  | 261 (OG/BK)   | (25) | 676 (PK/OG) | (8)  | 261 (OG/BK)         | (25) | 676 (PK/OG) |
| (9)  | 61 (YE/RD)    | (26) | 512 (TN/LG) | (9)  | 61 (YE/RD)          | (26) | 512 (TN/LG) |
| (10) | **605 (RD)    | (27) | 531 (DG/YE) | (10) | 605 (RD)            | (27) | 531 (DG/YE) |
| (11) | **145 (GY/BK) | (28) | -           | (11) | 145 (GY/BK)         | (28) | -           |
| (12) | -             | (29) | 3 (LG/WH)   | (12) | -                   | (29) | 3 (LG/WH)   |
| (13) | 56 (DB/OG)    | (30) | 2 (WH/LB)   | (13) | 56 (DB/OG)          | (30) | 2 (WH/LB)   |
| (14) | 210 (LB)      | (31) | 63 (RD)     | (14) | 210 (LB)            | (31) | 63 (RD)     |
| (15) | 589 (OG)      | (32) | 975 (BN/YE) | (15) | 589 (OG)            | (32) | 975 (BN/YE) |
| (16) | 224 (TN/WH)   | (33) | 1908 (WH)   | (16) | 224 (TN/WH)         | (33) | 1908 (WH)   |
| (17) | 348 (VT)      | (34) | 1909 (BK)   | (17) | * -/gas<br>348 (VT) | (34) | 1909 (BK)   |





**C211 (BK)****14401****14405**

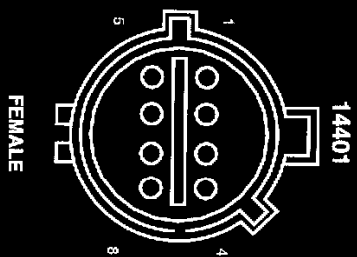
\* with auxiliary fuel tank  
 \*\* with rear parking aid

|      |                |
|------|----------------|
| (1)  | 43 (DB)        |
| (2)  | 14 (BN)        |
| (3)  | 53 (BK/LB)     |
| (4)  | **786 (RD)     |
| (5)  | 29 (YE/MH)     |
| (6)  | 511 (LG)       |
| (7)  | **789 (BN/MH)  |
| (8)  | 386 (BK/OG)    |
| (9)  | 787 (PK/BK)    |
| (10) | 43 (DB)        |
| (11) | **675 (YE/LB)  |
| (12) | **1438 (BN/PK) |
| (13) | -              |
| (14) | **1440 (DG/YE) |
| (15) | -              |
| (16) | **1441 (WH/LG) |
| (17) | -              |
| (18) | **1442 (DG/MH) |
| (19) | -              |
| (20) | **1443 (WH/LB) |
| (21) | -              |
| (22) | **1444 (DB/YE) |
| (23) | 962 (BN/MH)    |

**C213 (GN)****14A005****14401**

\* with power mirrors  
 \*\* without RKE  
 \*\*\* only with RKE

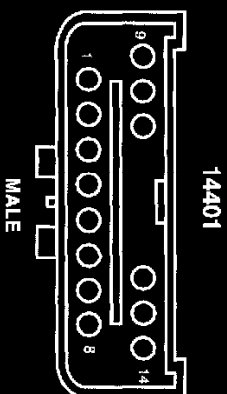
|      |               |      |                 |
|------|---------------|------|-----------------|
| (1)  | 162 (LG/RD)   | (11) | 813 (LB/MH)     |
| (2)  | 801 (TN/YE)   | (12) | ***1 (DB)       |
| (3)  | 53 (BK/LB)    | (13) | -               |
| (4)  | 511 (LG)      | (14) | -               |
| (5)  | **3 (LG/MH)   | (15) | ***1306 (PK/MH) |
| (6)  | 800 (GY/LB)   | (16) | ***195 (TN/MH)  |
| (7)  | **759 (LG/YE) | (17) | 804 (OG/LG)     |
| (8)  | **760 (PK/LB) | (18) | ***1104 (LB)    |
| (9)  | -             | (19) | -               |
| (10) | 962 (BR/MH)   | (20) | **693 (OG)      |

**C214** (GY)

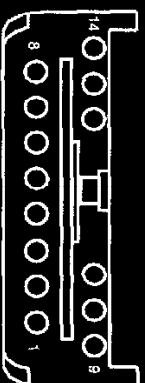
- |     |              |
|-----|--------------|
| (1) | 763 (OG/WH)  |
| (2) | 764 (BN/WH)  |
| (3) | 771 (VT/YE)  |
| (4) | 3659 (BK/PK) |
| (5) | 781 (OG/LB)  |
| (6) | 770 (WH)     |
| (7) | 976 (OG)     |
| (8) | 782 (BN/WH)  |

**C264** (BK)

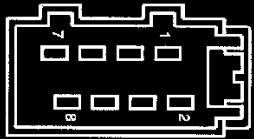
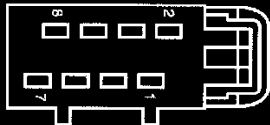
Marker lamps  
 \*\*Pool opening panel  
 \*\*\*Electrochromatic mirror



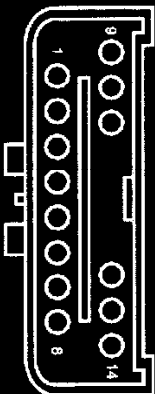
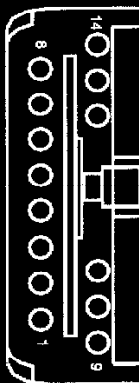
- |     |                |      |                |
|-----|----------------|------|----------------|
| (1) | -              | (8)  | **53 (BK/LB)   |
| (2) | ***676 (PK/OG) | (9)  | **19 (LB/RD)   |
| (3) | -              | (10) | ***640 (RD/YE) |
| (4) | **14 (BN)      | (11) | 54 (LG/YE)     |
| (5) | 57 (BK)        | (12) | ***140 (BK/PK) |
| (6) | -              | (13) | ***703 (WH/OG) |
| (7) | **400 (LB/BK)  | (14) | ***702 (WH/BK) |

**17C712/15A404**

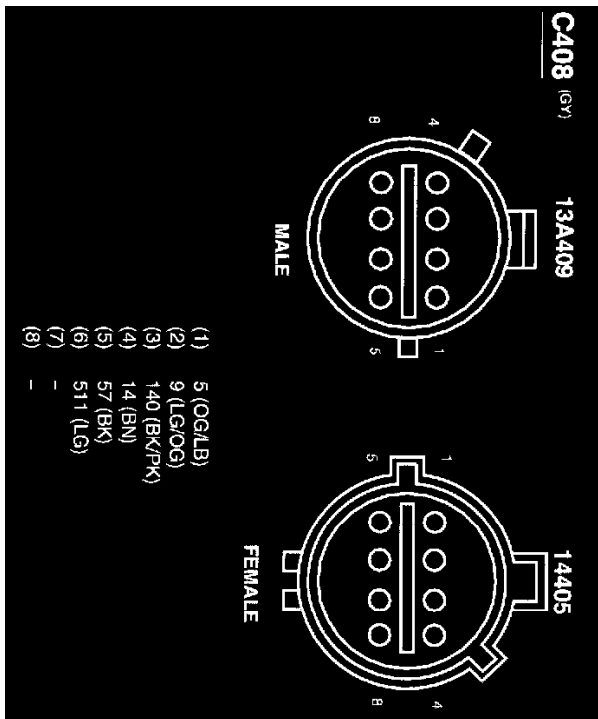
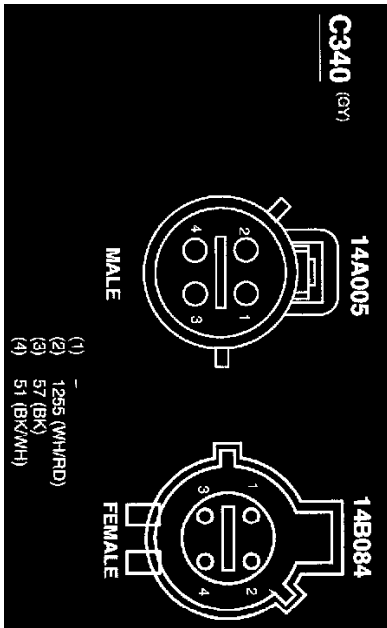
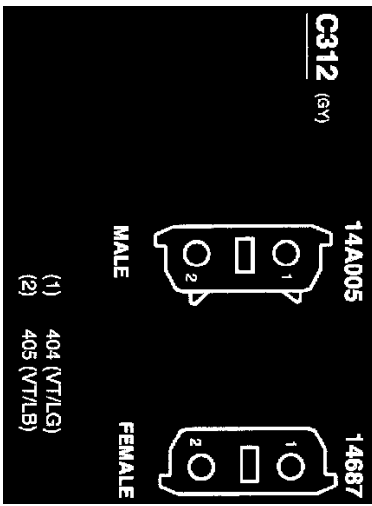
- |     |                |      |                |
|-----|----------------|------|----------------|
| (1) | not used       | (8)  | **53 (BK/LB)   |
| (2) | ***676 (PK/OG) | (9)  | **19 (LB/RD)   |
| (3) | not used       | (10) | ***640 (RD/YE) |
| (4) | **14 (BN)      | (11) | 54 (LG/YE)     |
| (5) | 57 (BK)        | (12) | ***140 (BK/PK) |
| (6) | not used       | (13) | ***703 (WH/OG) |
| (7) | **400 (LB/BK)  | (14) | ***702 (WH/BK) |

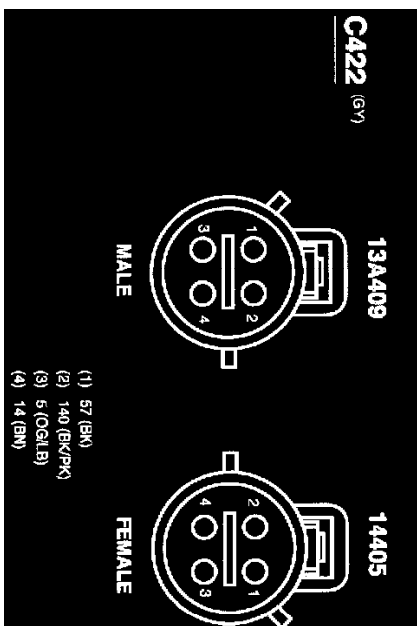
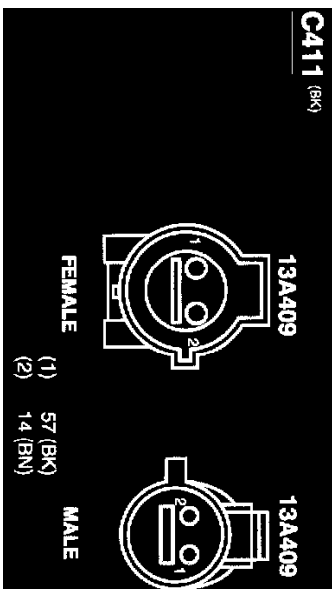
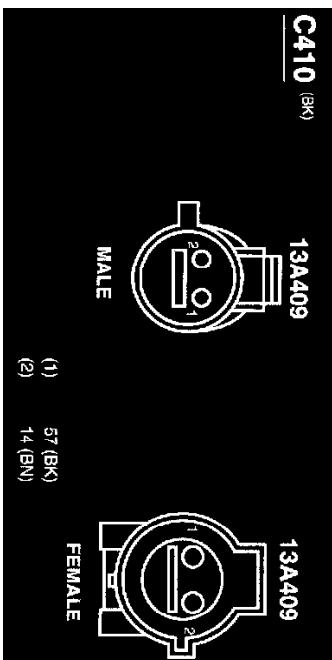
**C291** (6V)**14401****MALE****14A005****FEMALE**

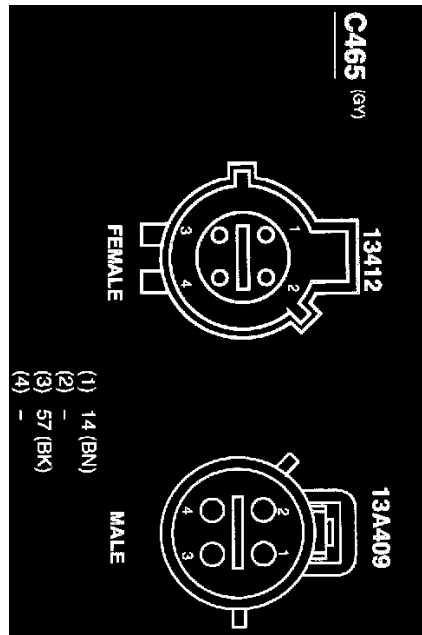
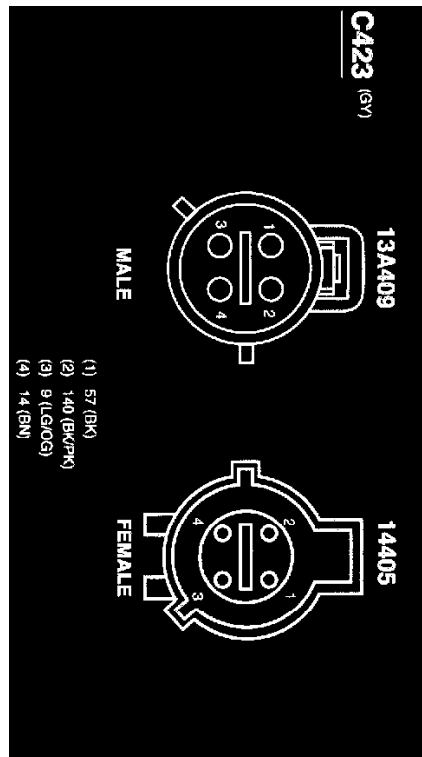
- |     |               |
|-----|---------------|
| (1) | -             |
| (2) | 676 (PK/OG)   |
| (3) | -             |
| (4) | 1399 (DB/W-H) |
| (5) | -             |
| (6) | 196 (DB/CG)   |
| (7) | 15 (RD/YE)    |
| (8) | 116 (RD/BK)   |

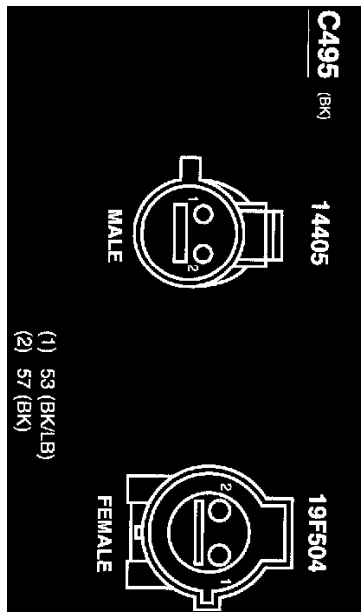
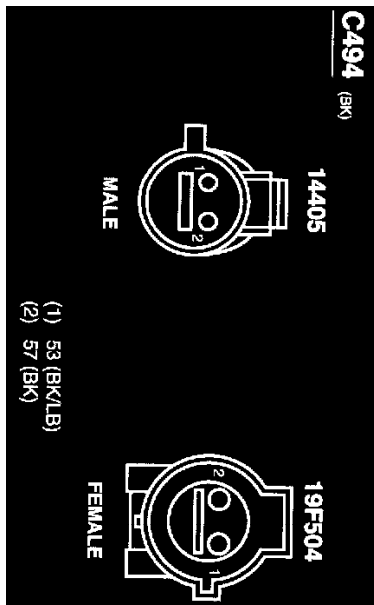
**C300** (6V)**14401****MALE****15K867****FEMALE**

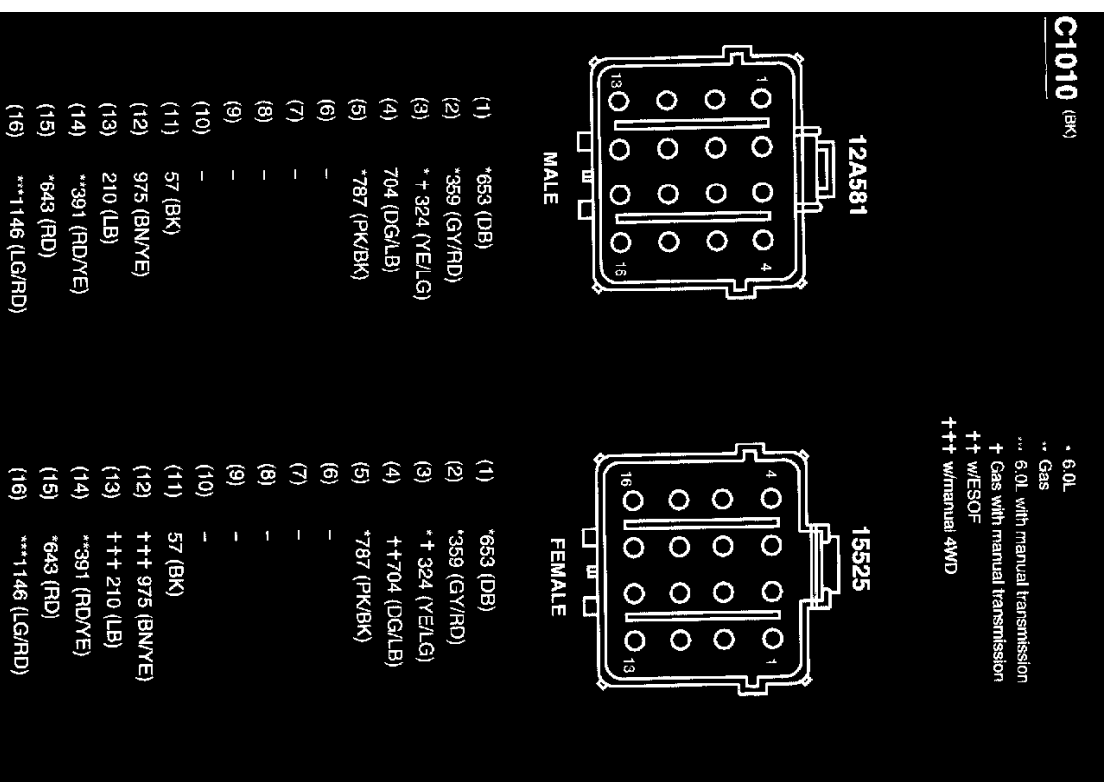
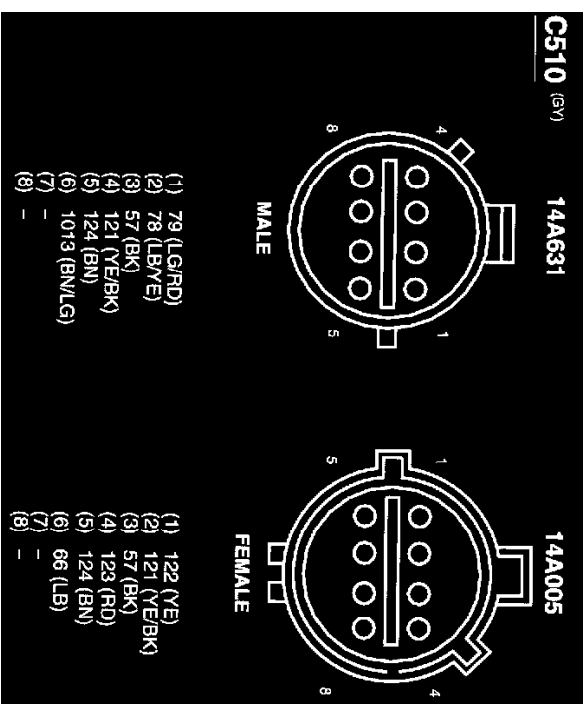
- |     |              |      |              |
|-----|--------------|------|--------------|
| (1) | 1441 (WH/LG) | (8)  | 1444 (DB/YE) |
| (2) | 1442 (DG/WH) | (9)  | 1443 (WH/LB) |
| (3) | 140 (BK/PK)  | (10) | 1436 (VT/OG) |
| (4) | 1435 (DG/VT) | (11) | 1440 (DG/YE) |
| (5) | 70 (LB/WH)   | (12) | 1439 (BN/PK) |
| (6) | 57 (BK)      | (13) | -            |
| (7) | 295 (LB/PK)  | (14) | -            |



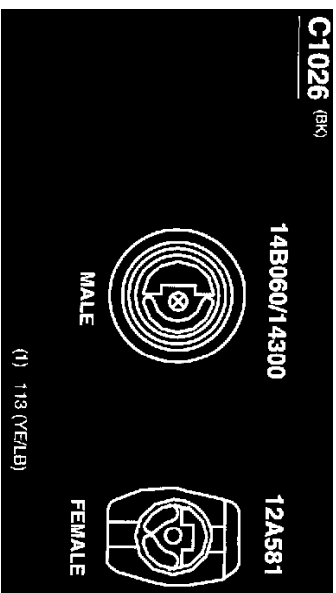
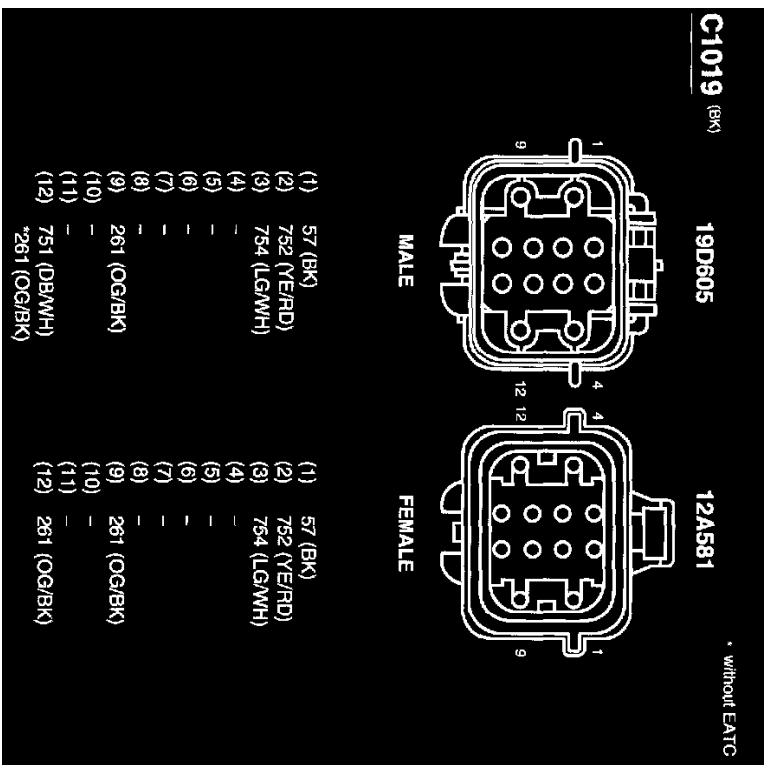


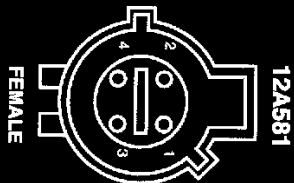
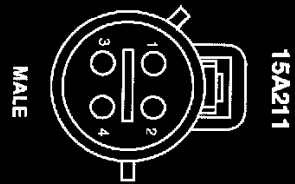




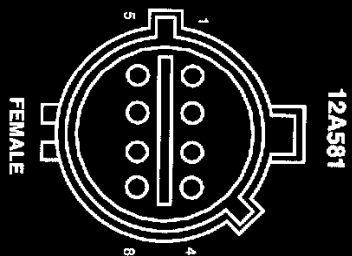
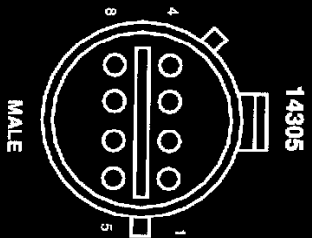




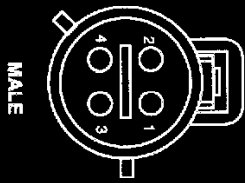


**C1045** (GY)

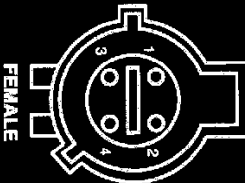
- (1) 487 (TN/OG)  
(2) -  
(3) 57 (BK)  
(4) -

**C1046** (GY)

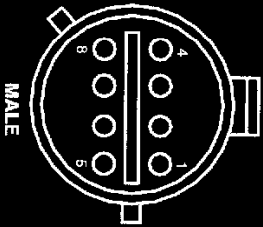
- (1) -  
(2) 321 (GY/WH)  
(3) 348 (VT)  
(4) 804 (LG/RD)  
(5) -  
(6) -  
(7) 57 (BK)  
(8) 439 (TN/LG)

**C1147** (BK)**12A581****MALE**

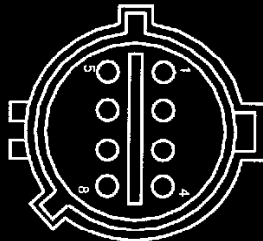
- (1) 3061 (LB/OG)
- (2) -
- (3) 470 (PK/BK)
- (4) -

**14K073****FEMALE**

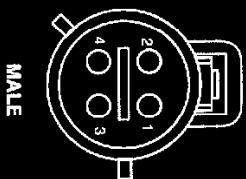
- (1) 3061 (LB/OG)
- (2) -
- (3) 470 (PK/BK)
- (4) -

**C1148** (BK)**14305****MALE**

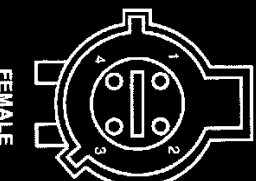
- (1) 904 (LG/RD)
- (2) 1183 (WH/YE)
- (3) -
- (4) 1183 (WH/YE)
- (5) 1185 (YE)
- (6) 904 (LG/RD)
- (7) -
- (8) -

**12A581****FEMALE**

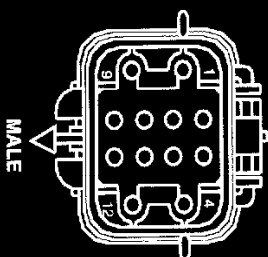
- (1) 904 (LG/RD)
- (2) 904 (LG/RD)
- (3) -
- (4) 1183 (WH/YE)
- (5) 1185 (YE)
- (6) 3090 (VT)
- (7) -
- (8) -

**C1221** (BK)**14B102****MALE**

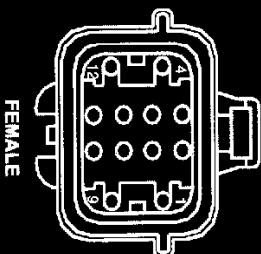
- (1) -
- (2) 1102 (YEL/G)
- (3) 359 (GY/RD)
- (4) -

**12B637****FEMALE**

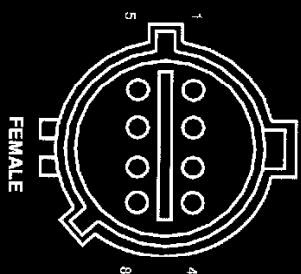
- (1) -
- (2) 1102 (YEL/G)
- (3) 359 (GY/RD)
- (4) -

**C1282** (BK)**12A581****MALE**

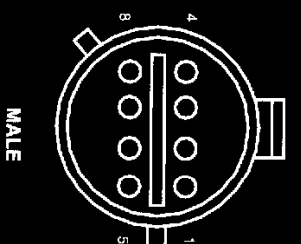
- (1) 574 (BK/PK)
- (2) 321 (GY/WH)
- (3) -
- (4) 2244 (OG/LB)
- (5) 2249 (LG/VT)
- (6) 814 (WH/BK)
- (7) 57 (BK)
- (8) 3098 (RD/YE)
- (9) 18 (RD/LG)
- (10) 361 (RD)
- (11) 1308 (BN/OG)
- (12) 876 (DG/LG)

**12B637****FEMALE**

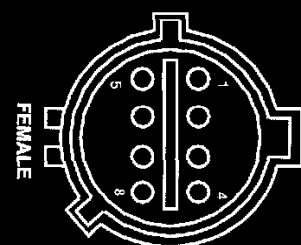
- (1) 574 (BK/PK)
- (2) 321 (GY/WH)
- (3) -
- (4) -
- (5) -
- (6) 814 (WH/BK)
- (7) 57 (BK)
- (8) 3098 (RD/YE)
- (9) 1717 (VT/OG)
- (10) 361 (RD)
- (11) 1308 (BN/OG)
- (12) 876 (DG/LG)

**C1298** (BK)**12A581**

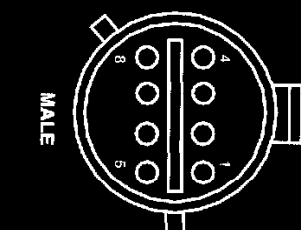
- (1) -
- (2) 440 (TN/LG)
- (3) 347 (BK/YE)
- (4) 1183 (WH/YE)
- (5) 1185 (YE)
- (6) 904 (LG/RD)
- (7) 441 (RD/YE)
- (8) 439 (TN/LG)

**12B637**

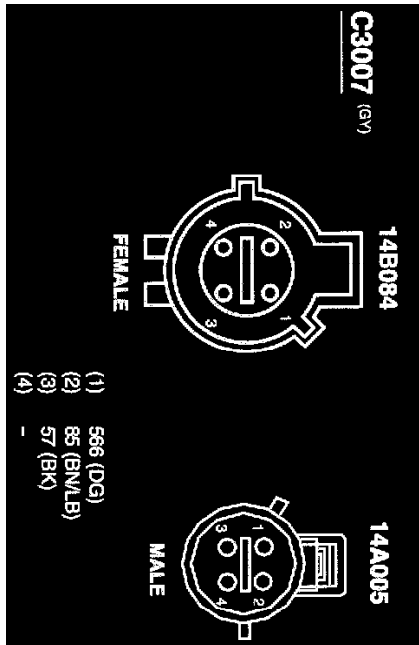
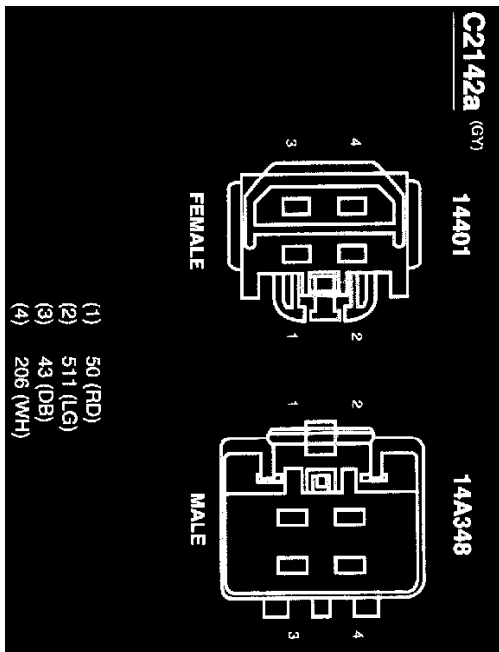
- (1) -
- (2) 348 (VT)
- (3) 347 (BK/YE)
- (4) 1183 (WH/YE)
- (5) 1185 (YE)
- (6) 904 (LG/RD)
- (7) 441 (RD/YE)
- (8) 439 (TN/LG)

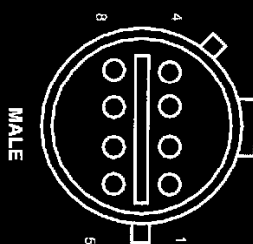
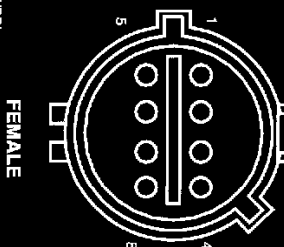
**C1386** (BK)**15525**

- (1) 57 (BK)
- (2) 787 (PK/BK)
- (3) 57 (BK)
- (4) 653 (DB)
- (5) 359 (GY/RD)
- (6) 643 (RD)
- (7) -
- (8) -

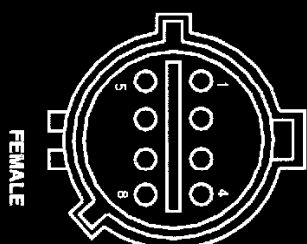
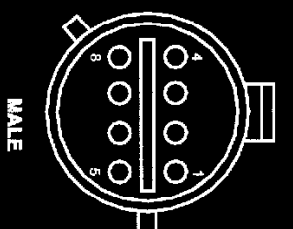
**9F759**

- (1) 57 (BK)
- (2) 787 (PK/BK)
- (3) 57 (BK)
- (4) 16 (RD/LG)
- (5) 359 (GY/RD)
- (6) 643 (RD)
- (7) -
- (8) -



**C3049** (GY)**14A005****14B084**

- (1) 1256 (WH/FLD)
- (2) 86 (BN/LB)
- (3) 566 (DG)
- (4) 57 (BK)
- (5) 1153 (RD/BK)
- (6) 295 (LB/PK)
- (7) -
- (8) -

**C4001** (BK)**14405****14N139**

- (1) 1444 (DB/YE)
- (2) 1442 (DG/WH)
- (3) 1441 (WH/LG)
- (4) 1440 (DG/YE)
- (5) 1439 (BN/PK)
- (6) 1443 (WH/LB)
- (7) -
- (8) -

**C103** (BK)

**12B637**

Oil pressure switch (9278)



FEMALE

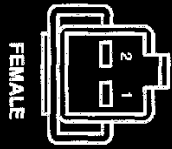
| Pin | Circuit      | Circuit function                       |
|-----|--------------|----------------------------------------|
| 1   | 1308 (BN/OG) | Engine oil pressure indicator, control |

**C2015** (BK)

**14401**

**14A005**

Parking brake switch (15A851)



FEMALE

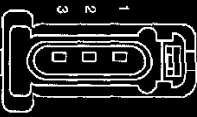
| Pin | Circuit     | Circuit function        |
|-----|-------------|-------------------------|
| 1   | 162 (LG/RD) | Park brake switch input |
| 2   | 676 (PK/OG) | Ground                  |



**C1023** (BK)

**12A581**

Park/turn  
lamp, left  
front (13411)



FEMALE

| Pin | Circuit  | Circuit function             |
|-----|----------|------------------------------|
| 1   | 57 (BK)  | Ground                       |
| 2   | 14 (BN)  | Power, Exterior lamps        |
| 3   | 3 (LGWH) | Turn lamps, feed, left front |

**C4032** (BN)

**13A409**

Park/stop/  
turn lamp,  
right rear



FEMALE

| Pin | Circuit   | Circuit function             |
|-----|-----------|------------------------------|
| 1   | 57 (BK)   | Ground                       |
| 2   | 14 (BN)   | Power Exterior lamps         |
| 3   | 5 (OG/LB) | Turn lamps, feed, right rear |

**C4035** (BN)  
**13A409**

Park/  
stop/turn  
lamp, left  
rear



FEMALE

| Pin | Circuit  | Circuit function            |
|-----|----------|-----------------------------|
| 1   | 57 (BK)  | Ground                      |
| 2   | 14 (BN)  | Power Exterior lamps        |
| 3   | 9 (LG/G) | Turn lamps, feed, left rear |

**C1043** (BK)  
**12A581**

Park/turn  
lamp, right  
front (13411)



FEMALE

| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 57 (BK)    | Ground                        |
| 2   | 14 (BN)    | Power, Exterior lamps         |
| 3   | 2 (W-H/LB) | Turn lamps, feed, right front |

**C1106** (BN)  
**12B637**  
 Heated Positive  
 Crankcase  
 Ventilation  
 (PCV) element

MALE

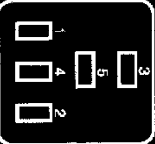
| Pin | Circuit      | Circuit function                                             |
|-----|--------------|--------------------------------------------------------------|
| 1   | 391 (RD/YE)  | PCM power relay, switched power                              |
| 2   | 1276 (WH/OG) | Heated Positive Crankcase Ventilation (PCV) element, control |

**C1187**  
**12A581**  
 Trailer tow  
 relay, right  
 turn

FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 57 (BK)      | Ground                                             |
| 2   | 5 (OG/LB)    | Relay, control                                     |
| 3   | 1362 (DG/OG) | Voltage supplied at all times (overload protected) |
| 4   | -            | not used                                           |
| 5   | 64 (DG)      | Trailer lamp socket, Right turn signal             |

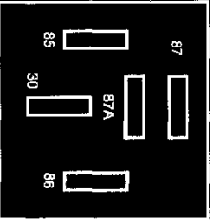
**C1188**  
**12A581**  
Trailer tow  
relay, left  
turn



FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 57 (BK)      | Ground                                             |
| 2   | 9 (LG/OG)    | Relay, control                                     |
| 3   | 1362 (DG/OG) | Voltage supplied at all times (overload protected) |
| 4   | -            | not used                                           |
| 5   | 52 (YE)      | Trailer lamp socket, Left turn signal              |

**C2110**  
**14A01**  
Trailer tow relay,  
battery charge



FEMALE

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 30  | -           | Voltage supplied at all times (not overload protected)    |
| 85  | -           | Ground                                                    |
| 86  | 295 (LB/PK) | Voltage supplied in run (overload protected)              |
| 87  | 49 (OG)     | Trailer tow relay, battery charge, switched power, output |
| 87A | -           | not used                                                  |

C525 (GY)  
14A005

Door lock actuator, left front

1

2

FEMALE

• without remote keyless entry

| Pin | Circuit       | Circuit function                          |
|-----|---------------|-------------------------------------------|
| 1   | 163 (RD/OG)   | Driver door unlock relay, switched output |
|     | **118 (PK/OG) | Door lock motor (unlock)                  |
| 2   | 117 (PK/BK)   | Door lock, output                         |

C704 (GY)  
14A005

Door lock actuator, left rear (218A43)

2

1

FEMALE

| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | 117 (PK/BK) | Door lock, output   |
| 2   | 118 (PK/OG) | Door unlock, output |

**C804** (GY)

**14A005**

Door lock  
actuator, right  
rear (213A42)



| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | 117 (PK/BK) | Door lock, output   |
| 2   | 118 (PK/OG) | Door unlock, output |

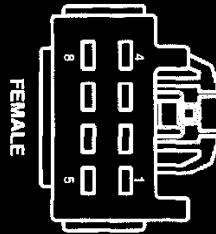
**C603** (GY)

**14A005**

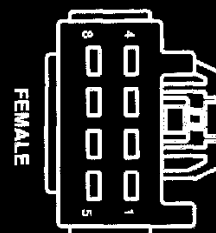
Door lock  
actuator,  
passenger  
side  
(213A42)



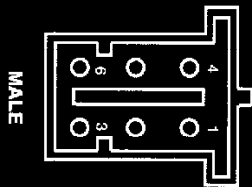
| Pin | Circuit     | Circuit function    |
|-----|-------------|---------------------|
| 1   | 117 (PK/BK) | Door lock, output   |
| 2   | 118 (PK/OG) | Door unlock, output |

**C505 (GN)**  
**14A005**Door lock  
switch, driver  
side (14983)\* with remote keyless entry  
\*\* without remote keyless entry

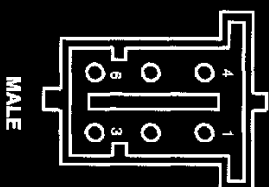
| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 1   | 57 (BK)       | Ground                                             |
| 2   | -             | not used                                           |
|     | **57 (BK)     | Common                                             |
| 3   | *1210 (BK/WH) | Unlock Switch Circuit                              |
|     | **120 (PK/LG) | Unlock Switch Circuit                              |
| 4   | *57 (BK)      | Ground                                             |
|     | **116 (RD/BK) | Voltage supplied at all times (overload protected) |
| 5   | 194 (PK)      | Switch illumination                                |
| 6   | -             | not used                                           |
| 7   | *1211 (WH/RD) | Lock Switch Circuit                                |
|     | **119 (PK/YE) | Lock Switch Circuit                                |
| 8   | -             | not used                                           |
|     | **57 (BK)     | Ground                                             |

**C605 (GN)**  
**14A005**Door lock  
switch,  
passenger  
side (14026)\* with remote keyless entry  
\*\* without remote keyless entry

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 1   | 57 (BK)       | Ground                                             |
| 2   | -             | not used                                           |
|     | **120 (PK/LG) | Unlock Switch Circuit                              |
| 3   | *1210 (BK/WH) | Unlock Switch Circuit                              |
|     | **118 (PK/OG) | Unlock Switch Circuit                              |
| 4   | *57 (BK)      | Ground                                             |
|     | **116 (RD/BK) | Voltage supplied at all times (overload protected) |
| 5   | 194 (PK)      | Switch illumination                                |
| 6   | -             | not used                                           |
| 7   | *1211 (WH/RD) | Lock Switch Circuit                                |
|     | **117 (PK/BK) | Lock Switch Circuit                                |
| 8   | -             | not used                                           |
|     | **119 (PK/YE) | Lock Switch Circuit                                |

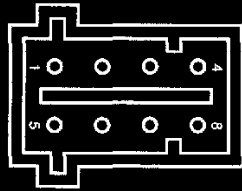
**C3015****14B084**Power seat  
motor  
assembly, right

| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 987 (RD/MH) | Fwd/Rwd motor, Rearward  |
| 2   | 985 (RD/LB) | Rear height motor, Down  |
| 3   | 984 (YE/LB) | Rear height motor, Up    |
| 4   | 986 (YE/MH) | Fwd/Rwd motor, Forward   |
| 5   | 988 (YE/LG) | Front height motor, Up   |
| 6   | 989 (RD/LG) | Front height motor, Down |

**C357 (B)****14B084**Power seat  
motor  
assembly, left

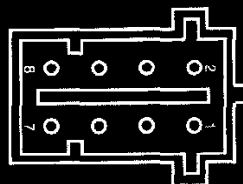
| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 980 (YE/MH) | Fwd/Rwd motor, Forward   |
| 2   | 983 (RD/LG) | Rear height motor, Up    |
| 3   | 982 (YE/LG) | Rear height motor, Down  |
| 4   | 981 (RD/MH) | Fwd/Rwd motor, Forward   |
| 5   | 990 (YE/LB) | Front height motor, Down |
| 6   | 979 (RD/LB) | Front height motor, Up   |



**C330** (BK)**14B084**Seat adjust  
switch,  
passenger side  
front

MALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 989 (RD/LG) | Front height motor, Down                           |
| 2   | 51 (BK/WH)  | Voltage supplied at all times (overload protected) |
| 3   | 987 (RD/WH) | Fwd/Rwd motor, Rearward                            |
| 4   | 57 (BK)     | Ground                                             |
| 5   | 984 (YE/LB) | Rear height motor, Up                              |
| 6   | 988 (YE/LG) | Front height motor, Up                             |
| 7   | 985 (RD/LB) | Rear height motor, Down                            |
| 8   | 986 (YE/WH) | Fwd/Rwd motor, Forward                             |

**C360** (BK)**14B084**Seat adjust  
switch, driver  
side front  
(14AY01)

MALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 990 (YE/LB) | Front height motor, Down                           |
| 2   | 983 (RD/LG) | Rear height motor, Up                              |
| 3   | 982 (YE/LG) | Rear height motor, Down                            |
| 4   | 566 (DG)    | Voltage supplied at all times (overload protected) |
| 5   | 979 (RD/LB) | Front height motor, Up                             |
| 6   | 981 (RD/WH) | Fwd/Rwd motor, Forward                             |
| 7   | 980 (YE/WH) | Fwd/Rwd motor, Rearward                            |
| 8   | 57 (BK)     | Ground                                             |

**C369** (TN)

**14B084**

Seat adjust  
switch, driver  
side front  
(14A701)

MALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 57 (BK)     | Ground                                             |
| 2   | 979 (RD/LB) | Front height motor, Up                             |
| 3   | 980 (YE/WH) | Fwd/Rwd motor, Rearward                            |
| 4   | 982 (YE/LG) | Rear height motor, Down                            |
| 5   | 981 (RD/WH) | Fwd/Rwd motor, Forward                             |
| 6   | 983 (RD/LG) | Rear height motor, Up                              |
| 7   | 566 (DG)    | Voltage supplied at all times (overload protected) |
| 8   | 990 (YE/LB) | Front height motor, Down                           |

**C301** (GY)

**14687**

Power sliding rear  
window motor  
(14A464)

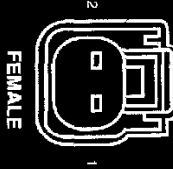
FEMALE

| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 404 (VT/LG) | Rear window adjust switch to window motor |
| 2   | 405 (VT/LB) | Rear window adjust switch to window motor |

**C524** (BK)

**14A005**

Power window motor, driver side front (23396)



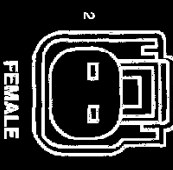
FEMALE

| Pin | Circuit     | Circuit function                                |
|-----|-------------|-------------------------------------------------|
| 1   | 992 (WH/BK) | Master window adjust switch (14529), feed, Up   |
| 2   | 991 (TN/LB) | Master window adjust switch (14529), feed, Down |

**C608** (BK)

**14A005**

Power window motor, passenger side front (23394)



FEMALE

| Pin | Circuit      | Circuit function         |
|-----|--------------|--------------------------|
| 1   | 383 (YE/RED) | Window motor, feed, Up   |
| 2   | 394 (RD/YE)  | Window motor, feed, Down |

**C703** (BK)

**14A005**

Power window motor, left rear (23394)



| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 885 (YE/LB) | Window motor, feed, Down |
| 2   | 884 (YE/BK) | Window motor, feed, Up   |

**C803** (BK)

**14A005**

Power window motor, right rear (23394)

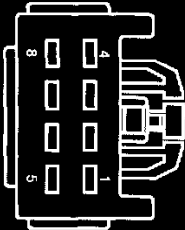


| Pin | Circuit     | Circuit function         |
|-----|-------------|--------------------------|
| 1   | 882 (BN/YE) | Window motor, feed, Down |
| 2   | 881 (BN)    | Window motor, feed, Up   |

**C504a** (BU)

**14A005**

Master window  
adjust switch  
(14S40)



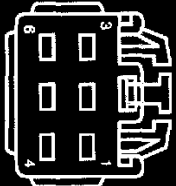
FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | —           | not used                                           |
| 2   | 57 (BK)     | Ground                                             |
| 3   | 313 (WH/YE) | Window switch, feed, right front, Down             |
| 4   | 314 (TN/LB) | Window switch, feed, right front, Up               |
| 5   | —           | not used                                           |
| 6   | 400 (LB/BK) | Accessory delay relay, switched output             |
| 7   | 991 (TN/LB) | Master window adjust switch<br>(14S29), feed, Down |
| 8   | 992 (WH/BK) | Master window adjust switch<br>(14S29), feed, Up   |

**C504b** (GY)

**14A005**

Master window  
adjust switch  
(14S40)



FEMALE

| Pin | Circuit     | Circuit function                      |
|-----|-------------|---------------------------------------|
| 1   | —           | not used                              |
| 2   | 319 (YE/BK) | Window switch, feed, right rear, Down |
| 3   | 320 (RD/BK) | Window switch, feed, right rear, Up   |
| 4   | 193 (YE/G)  | Window lockout, switched output       |
| 5   | 316 (YE/LB) | Window switch, feed, left rear, Up    |
| 6   | 317 (GY/OG) | Window switch, feed, left rear, Down  |

**C604** (GV)  
**14A005**  
Window adjust  
switch,  
passenger side

FEMALE

\* with crew cab

| Pin | Circuit      | Circuit function                       |
|-----|--------------|----------------------------------------|
| 1   | 313 (WH/YE)  | Window switch, feed, right front, Down |
| 2   | 334 (RD/YE)  | Window motor, feed, Down               |
| 3   | *193 (YE/LG) | Switched power                         |
| 4   | 400 (LB/BK)  | Accessory delay relay, switched output |
| 5   | —            | not used                               |
| 6   | 333 (YE/RD)  | Window motor, feed, Up                 |
| 6   | 314 (TN/LB)  | Window switch, feed, right front, Up   |

**C701** (GV)  
**14A005**  
Window adjust  
switch, left rear  
(14A112)

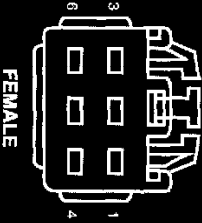
FEMALE

| Pin | Circuit     | Circuit function                     |
|-----|-------------|--------------------------------------|
| 1   | 317 (GY/OG) | Window switch, feed, left rear, Down |
| 2   | 886 (YE/LB) | Window motor, feed, Down             |
| 3   | 193 (YE/LG) | Switched power                       |
| 4   | —           | not used                             |
| 5   | 884 (YE/BK) | Window motor, feed, Up               |
| 6   | 316 (YE/LB) | Window switch, feed, left rear, Up   |

**C201** (GY)

**14A005**

Window  
adjust switch,  
right rear  
(14A412)



FEMALE

| Pin | Circuit     | Circuit function                      |
|-----|-------------|---------------------------------------|
| 1   | 319 (YE/BK) | Window switch, feed, right rear, Down |
| 2   | 882 (BN/YE) | Window motor, feed, Down              |
| 3   | 193 (YE/LG) | Switched power                        |
| 4   | -           | not used                              |
| 5   | 881 (BN)    | Window motor, feed, Up                |
| 6   | 320 (RD/BK) | Window switch, feed, right rear, Up   |

**C203** (BK)

**14401**

Power sliding rear  
window switch



FEMALE

| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 405 (VT/LB) | Rear window adjust switch to window motor |
| 2   | 400 (LB/BK) | Accessory delay relay, switched output    |
| 3   | 57 (BK)     | Ground                                    |
| 4   | 57 (BK)     | Ground                                    |
| 5   | 19 (LB/RD)  | Instrument illumination, feed             |
| 6   | 57 (BK)     | Ground                                    |
| 7   | 404 (VT/LG) | Rear window adjust switch to window motor |

**C1271** (BK)

**12B637**

Exhaust Back  
Pressure  
(EBP) sensor



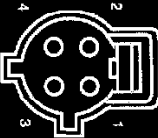
**FEMALE**

| Pin | Circuit      | Circuit function  |
|-----|--------------|-------------------|
| 1   | 359 (GY/RED) | Signal return     |
| 2   | 351 (BN/WH)  | Reference voltage |
| 3   | 553 (VT/LB)  | Position sense    |

**C1081** (BK)

**12A581**  
**14305**  
**19B573**

A/C compressor  
cycling switch  
(18E561)



**FEMALE**

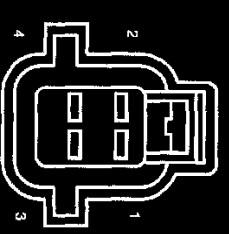
| Pin | Circuit     | Circuit function                           |
|-----|-------------|--------------------------------------------|
| 1   | 441 (FD/YE) | A/C pressure switch, to A/C cycling switch |
| 2   | -           | not used                                   |
| 3   | -           | not used                                   |
| 4   | 348 (VT)    | A/C demand signal                          |



**C1062** (BK)

**12B637**

Dual  
pressure  
switch  
(19D594)



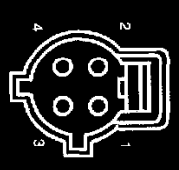
FEMALE

| Pin | Circuit     | Circuit function                       |
|-----|-------------|----------------------------------------|
| 1   | 441 (FD/YE) | A/C compressor cycling switch (19E561) |
| 2   | 347 (BK/YE) | Ground                                 |
| 3   | 348 (V7)    | A/C demand signal                      |
| 4   | 439 (TN/LG) | A/C pressure switch, signal            |

**C1078** (BK)

**14305**

A/C high  
pressure  
switch  
(19D594)



FEMALE

| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 441 (FD/YE) | A/C pressure switch,<br>to A/C cycling switch |
| 2   | -           | not used                                      |
| 3   | 439 (TN/LG) | A/C pressure switch, signal                   |
| 4   | -           | not used                                      |

**C1035**

**12A581**

Battery Junction  
Box (3A8)  
(14A087)

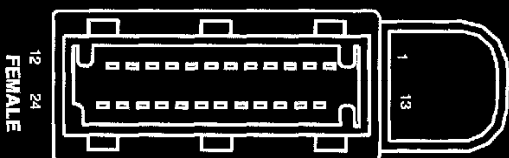


| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

**C270a** (BK)

**14401**

Central Junction  
Box (CJB)  
(14A087)



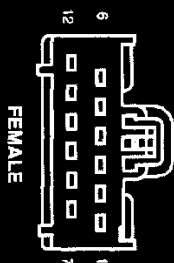
| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | 54 (LG/YE)   | Battery saver relay, switched output                   |
| 2   | 1000 (RD/BK) | Voltage supplied in Start (overload protected)         |
| 3   | 22 (LB/BK)   | Voltage supplied at all times (overload protected)     |
| 4   | -            | not used                                               |
| 5   | 298 (VT/OG)  | Voltage in Run (overload protected)                    |
| 6   | -            | not used                                               |
| 7   | 1306 (PK/WH) | Voltage supplied at all times (overload protected)     |
| 8   | 640 (RD/YE)  | Voltage supplied in Start and Run (overload protected) |
| 9   | -            | not used                                               |
| 10  | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected)       |
| 11  | 57 (BK)      | Ground                                                 |
| 12  | 295 (LB/PK)  | Voltage in Run (overload protected)                    |

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 13  | 12 (LG/BK)  | Power, Hot with High Beams on                      |
| 14  | 1332 (LB)   | Accessory delay relay, control                     |
| 15  | 705 (LG/OG) | Voltage supplied at all times (overload protected) |
| 16  | 294 (WH/LB) | Voltage in Run (overload protected)                |
| 17  | 275 (YE)    | Fog lamp relay, control                            |
| 18  | 609 (OG/YE) | Voltage in Run (overload protected)                |
| 19  | 1 (DB)      | Horn relay, control                                |
| 20  | 296 (WH/VT) | Voltage in Run (overload protected)                |
| 21  | 295 (LB/PK) | Voltage in Run (overload protected)                |
| 22  | 238 (DG/YE) | Fuel pump relay, switched power, output            |
| 23  | 194 (PK)    | Accessory delay relay, switched output             |
| 24  | -           | not used                                           |

# **C270b (GY)**

**14401**

Central Junction  
Box (CJB)  
(14A067)

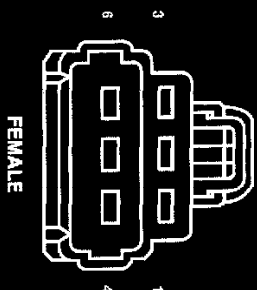


| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | 1792 (PK)   | Voltage supplied at all times (overload protected) |
| 2   | 10 (LG/RD)  | Voltage supplied at all times (overload protected) |
| 3   | -           | not used                                           |
| 4   | -           | not used                                           |
| 5   | 14 (BN)     | Power, Exterior lamps                              |
| 6   | 785 (BK/LG) | Voltage supplied at all times (overload protected) |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                      |
| 8   | 1522 (DG)   | Voltage supplied in Start (overload protected)     |
| 9   | 12 (LG/BK)  | Power, Hot with High Beams on                      |
| 10  | 195 (TN/WH) | Voltage supplied at all times (overload protected) |
| 11  | -           | not used                                           |
| 12  | 196 (DB/OG) | Voltage supplied at all times (overload protected) |

# **C270c (BK)**

**14401**

Central Junction  
Box (CJB)  
(14A067)



| Pin | Circuit      | Circuit function                                           |
|-----|--------------|------------------------------------------------------------|
| 1   | 1040 (RD/BK) | Voltage supplied in Run (overload protected)               |
| 2   | 37 (YE)      | Voltage supplied at all times (overload protected)         |
| 3   | 1050 (LG/VT) | Voltage supplied at all times (overload protected)         |
| 4   | 16 (RD/LG)   | Voltage supplied in Start and Run (overload protected)     |
| 5   | 687 (GY/YE)  | Voltage supplied in Run (overload protected)               |
| 6   | 964 (DB/LG)  | Voltage supplied in Accessory and Run (overload protected) |

**C270d** (GY)  
**14401**  
 Central Junction  
 Box (CJB)  
 (14A067)

\* w/ Adjustable pedals

| Pin | Circuit       | Circuit function                                   |
|-----|---------------|----------------------------------------------------|
| 1   | 3049 (BK/LG)  | Voltage supplied at all times (overload protected) |
| 2   | -             | not used                                           |
| 3   | *1567 (RD/LB) | Voltage supplied at all times (overload protected) |
| 4   | -             | not used                                           |
| 5   | 797 (LG/VT)   | Voltage supplied at all times (overload protected) |
| 6   | *400 (LB/BK)  | Accessory delay relay, switched output             |
| 7   | 40 (LB/WH)    | Voltage supplied at all times (overload protected) |
| 8   | 19 (LB/RD)    | Instrument illumination, feed                      |

**C270e** (BK)  
**14401**  
 Central Junction  
 Box (CJB)  
 (14A067)

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 50 (RD)      | Voltage supplied at all times (overload protected) |
| 2   | 1049 (BN/PK) | Voltage supplied at all times (overload protected) |
| 3   | *116 (RD/BK) | Voltage supplied at all times (overload protected) |
| 4   | 325 (DB/OG)  | Voltage supplied at all times (overload protected) |



**C270h** (BK)  
**12A581**  
Central Junction  
Box (CJB)  
(14A057)

FEMALE

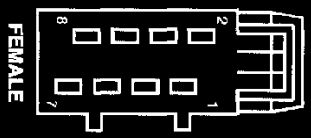
| Pin | Circuit     | Circuit function                               |
|-----|-------------|------------------------------------------------|
| 1   | 12 (LG/BK)  | Power, Hot with High Beams on                  |
| 2   | 478 (TN/OG) | Fog lamp relay, output, to fog lamps           |
| 3   | 14 (BN)     | Power, Exterior lamps                          |
| 4   | —           | not used                                       |
| 5   | 361 (RD)    | PCM power relay, switched power                |
| 6   | 391 (RD/YE) | PCM power relay, switched power                |
| 7   | 295 (LB/PK) | Voltage supplied in Run (overload protected)   |
| 8   | 33 (WH/PK)  | Voltage supplied in Start (overload protected) |
| 9   | 6 (YE/LG)   | Horn relay, switched power, output             |
| 10  | —           | not used                                       |
| 11  | —           | not used                                       |
| 12  | —           | not used                                       |

**C270j** (BK)  
**14A005**  
Central Junction  
Box (CJB)  
(14A057)

FEMALE

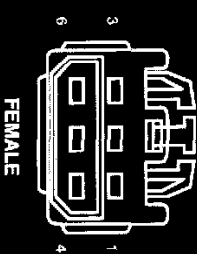
| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 1   | —           | not used                                           |
| 2   | —           | not used                                           |
| 3   | 956 (OG/LG) | Voltage supplied at all times (overload protected) |
| 4   | —           | not used                                           |
| 5   | —           | not used                                           |
| 6   | —           | not used                                           |
| 7   | 59 (DG/YT)  | HTD mirror relay, switched output                  |
| 8   | —           | not used                                           |
| 9   | —           | not used                                           |
| 10  | 295 (LB/PK) | Voltage supplied in Run (overload protected)       |
| 11  | 194 (PK)    | Accessory delay relay, switched output             |
| 12  | 14 (BN)     | Power, Exterior lamps                              |
| 13  | —           | not used                                           |
| 14  | 295 (LB/PK) | Voltage supplied in Run (overload protected)       |
| 15  | 962 (BN/WH) | Trailer tow relay, parking lamp, switched output   |
| 16  | 54 (LG/YE)  | Battery saver relay, switched output               |

**C270K (WH)**  
**14A303**  
 Central Junction  
 Box (CJB)  
 (14A087)



| Pin | Circuit      | Circuit function                                       |
|-----|--------------|--------------------------------------------------------|
| 1   | -            | not used                                               |
| 2   | 1447 (RD)    | Voltage supplied at all times (overload protected)     |
| 3   | -            | not used                                               |
| 4   | 1717 (VT/OG) | Voltage supplied in Start and Run (overload protected) |
| 5   | 19 (LB/RD)   | Instrument illumination, feed                          |
| 6   | 1445 (RD/LG) | Voltage supplied at all times (overload protected)     |
| 7   | 1446 (RD/LB) | Voltage supplied at all times (overload protected)     |
| 8   | 1448 (OG/RD) | Voltage supplied at all times (overload protected)     |

**C270I (GY)**  
**14A005**  
 Central Junction  
 Box (CJB)  
 (14A087)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | -            | not used                                           |
| 2   | -            | not used                                           |
| 3   | 1153 (RD/BK) | Voltage supplied at all times (overload protected) |
| 4   | 51 (BK/WH)   | Voltage supplied at all times (overload protected) |
| 5   | 566 (DG)     | Voltage supplied at all times (overload protected) |
| 6   | 400 (LB/BK)  | Accessory delay relay, switched output             |

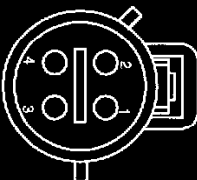


**C270p**  
**12A581**  
Central Junction  
Box (CJB)  
(14A087)



| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

**C323** (GV)  
**14B084**  
Safety belt  
buckle switch  
(10B924)



MALE

| Pin | Circuit    | Circuit function                          |
|-----|------------|-------------------------------------------|
| 1   | -          | not used                                  |
| 2   | 85 (BN/LB) | Safety belt buckle switch (10B924), input |
| 3   | -          | not used                                  |
| 4   | 57 (BK)    | Ground                                    |

**C335** (BK)

**14B084**

Seat back  
heater, right  
front

**FEMALE**

| Pin | Circuit      | Circuit function                               |
|-----|--------------|------------------------------------------------|
| 1   | 57 (BK)      | Ground                                         |
| 2   | 1066 (GY/LB) | Seat back heater, right<br>front, heater, feed |

**C365** (BK)

**14B084**

Seat back  
heater,  
left front

**FEMALE**

| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 57 (BK)      | Ground                                           |
| 2   | 1066 (GY/LB) | Seat cushion heater, left<br>front, heater, feed |

**C334** (BK)

**14B084**

Seat cushion  
heater, right  
front



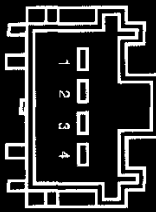
**FEMALE**

| Pin | Circuit      | Circuit function                                  |
|-----|--------------|---------------------------------------------------|
| 1   | 1066 (GY/LB) | Seat back heater, right<br>front, heater, feed    |
| 2   | —            | not used                                          |
| 3   | —            | not used                                          |
| 4   | 1064 (YE/LB) | Seat cushion heater, right<br>front, heater, feed |

**C364** (BK)

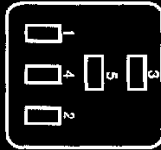
**14B084**

Seat cushion  
heater, left  
front

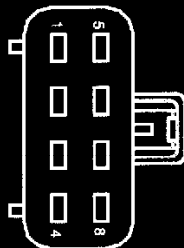


**FEMALE**

| Pin | Circuit      | Circuit function                                 |
|-----|--------------|--------------------------------------------------|
| 1   | 1066 (GY/LB) | Seat cushion heater,<br>left front, heater, feed |
| 2   | —            | not used                                         |
| 3   | —            | not used                                         |
| 4   | 1064 (YE/LB) | Seat back heater, left<br>front, heater, feed    |

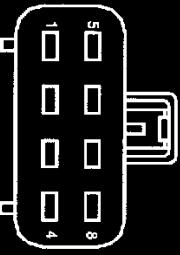
**C359****14B084**Heated seat  
relay, driver  
side front**FEMALE**

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 1255 (WH/RD) | Heated seat relay, switched output                 |
| 2   | 57 (BK)      | Ground                                             |
| 3   | -            | not used                                           |
| 4   | 295 (LB/PK)  | Voltage supplied in Run (overload protected)       |
| 5   | 1153 (RD/BK) | Voltage supplied at all times (overload protected) |

**C320 (BV)****14B084**Seat heater  
switch, driver  
side**FEMALE**

| Pin | Circuit      | Circuit function                              |
|-----|--------------|-----------------------------------------------|
| 1   | 1064 (YE/LB) | Seat cushion heater, left front, heater, feed |
| 2   | 1255 (WH/RD) | Heated seat relay, switched output            |
| 3   | -            | not used                                      |
| 4   | 57 (BK)      | Ground                                        |
| 5   | -            | not used                                      |
| 6   | -            | not used                                      |
| 7   | -            | not used                                      |
| 8   | -            | not used                                      |

**C321** (BN)  
**14B084**  
Seat heater  
switch,  
passenger side



| Pin | Circuit       | Circuit function                               |
|-----|---------------|------------------------------------------------|
| 1   | 1064 (YE/LB)  | Seat cushion heater, right front, heater, feed |
| 2   | 1255 (WH/RLD) | Heated seat relay, switched output             |
| 3   | -             | not used                                       |
| 4   | 57 (BK)       | Ground                                         |
| 5   | -             | not used                                       |
| 6   | -             | not used                                       |
| 7   | -             | not used                                       |
| 8   | -             | not used                                       |

**C286** (BK)  
**14401**  
Sunload  
sensor  
(13A018)



**\* with EATC**

| Pin | Circuit                   | Circuit function       |
|-----|---------------------------|------------------------|
| A   | *217 (DB/OG)              | Sunload sensor, signal |
| B   | 57 (BK)                   | Ground                 |
| C   | *676 (PK/OG)<br>1104 (LB) | Sunload sensor, signal |

**C197a**  
**14B060**  
**14300**  
Starter motor (11002)



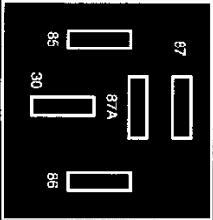
| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 113 (Y/ELB) | Starter relay (11450), switched power, output |

**C197b**  
**14B060**  
**14300**  
Starter motor (11002)



| Pin | Circuit   | Circuit function |
|-----|-----------|------------------|
| 1   | 2037 (RD) | Battery cable +  |

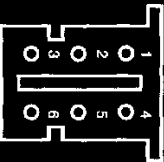
**C2163**  
**12A581**  
Starter relay



FEMALE

| Pin | Circuit     | Circuit function                                   |
|-----|-------------|----------------------------------------------------|
| 30  | -           | Voltage supplied at all times (overload protected) |
| 85  | 33 (WH/PK)  | Voltage supplied in Start (overload protected)     |
| 86  | 328 (PK)    | Starter relay, control                             |
| 87  | 113 (YE/LB) | Starter relay (11450), switched power, output      |
| 87A | -           | not used                                           |

**C921a**  
**17C712**  
Roof opening panel module (502D70)



FEMALE

| Pin | Circuit      | Circuit function                       |
|-----|--------------|----------------------------------------|
| 1   | 1175 (TN/RD) | Roof opening panel, Close circuit      |
| 2   | 1174 (WH/RD) | Roof opening panel, Open circuit       |
| 3   | 57 (BK)      | Ground                                 |
| 4   | 400 (LB/BK)  | Accessory delay relay, switched output |
| 5   | 1173 (BN/OG) | Roof opening panel, common             |
| 6   | -            | not used                               |

**C1187**  
**12A581**  
Trailer tow  
relay, right  
turn

FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 57 (BK)      | Ground                                             |
| 2   | 5 (OG/LB)    | Relay, control                                     |
| 3   | 1362 (DG/OG) | Voltage supplied at all times (overload protected) |
| 4   | -            | not used                                           |
| 5   | 64 (DG)      | Trailer lamp socket, Right turn signal             |

**C1188**  
**12A581**  
Trailer tow  
relay, left  
turn

FEMALE

| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 57 (BK)      | Ground                                             |
| 2   | 9 (LG/OG)    | Relay, control                                     |
| 3   | 1362 (DG/OG) | Voltage supplied at all times (overload protected) |
| 4   | -            | not used                                           |
| 5   | 52 (YE)      | Trailer lamp socket, Left turn signal              |



**C2110**  
**14401**  
Trailer tow relay,  
battery charge

FEMALE

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 30  | -           | Voltage supplied at all times (not overload protected)    |
| 85  | -           | Ground                                                    |
| 86  | 295 (LB/PK) | Voltage supplied in run (overload protected)              |
| 87  | 49 (OG)     | Trailer tow relay, battery charge, switched power, output |
| 87A | -           | not used                                                  |

**C2110**  
**14401**  
Trailer tow relay,  
battery charge

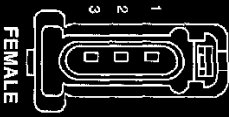
FEMALE

| Pin | Circuit     | Circuit function                                          |
|-----|-------------|-----------------------------------------------------------|
| 30  | -           | Voltage supplied at all times (not overload protected)    |
| 85  | -           | Ground                                                    |
| 86  | 295 (LB/PK) | Voltage supplied in run (overload protected)              |
| 87  | 49 (OG)     | Trailer tow relay, battery charge, switched power, output |
| 87A | -           | not used                                                  |

**C1023** (BK)

**12A581**

Park/turn  
lamp, left  
front (13411)



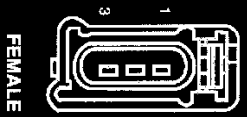
FEMALE

| Pin | Circuit  | Circuit function             |
|-----|----------|------------------------------|
| 1   | 57 (BK)  | Ground                       |
| 2   | 14 (BN)  | Power, Exterior lamps        |
| 3   | 3 (LGMH) | Turn lamps, feed, left front |

**C4032** (BN)

**13A409**

Park/stop/  
turn lamp,  
right rear

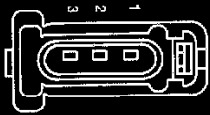


FEMALE

| Pin | Circuit   | Circuit function             |
|-----|-----------|------------------------------|
| 1   | 57 (BK)   | Ground                       |
| 2   | 14 (BN)   | Power Exterior lamps         |
| 3   | 5 (OG/LB) | Turn lamps, feed, right rear |

**C1043** (BK)  
**12A581**

Park/turn  
lamp, right  
front (13411)

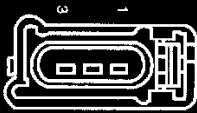


FEMALE

| Pin | Circuit   | Circuit function              |
|-----|-----------|-------------------------------|
| 1   | 57 (BK)   | Ground                        |
| 2   | 14 (BN)   | Power, Exterior lamps         |
| 3   | 2 (WH/LE) | Turn lamps, feed, right front |

**C4035** (BN)  
**13A409**

Park/  
stop/turn  
lamp, left  
rear



FEMALE

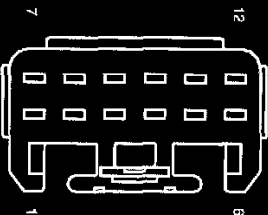
| Pin | Circuit   | Circuit function            |
|-----|-----------|-----------------------------|
| 1   | 57 (BK)   | Ground                      |
| 2   | 14 (BN)   | Power Exterior lamps        |
| 3   | 9 (LG/OG) | Turn lamps, feed, left rear |



**C202b** (GV)

**14401**

Multifunction switch



| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 63 (RD)    | Front wiper switch circuit A  |
| 2   | 56 (DB/OG) | Front wiper switch circuit C  |
| 3   | 58 (WH)    | Front wiper switch circuit B  |
| 4   | 61 (YE/RD) | Front wiper switch circuit H  |
| 5   | 589 (OG)   | Front washer switch circuit W |
| 6   | 57 (BK)    | Ground                        |
| 7   | 2 (WH/LB)  | Turn lamps, feed, right front |
| 8   | 5 (OG/LB)  | Turn lamps, feed, right rear  |
| 9   | 9 (LG/OG)  | Turn lamps, feed, left rear   |
| 10  | 3 (LG/WH)  | Turn lamps, feed, left front  |
| 11  | -          | not used                      |
| 12  | -          | not used                      |

**C1159** (GV)

**12A581**

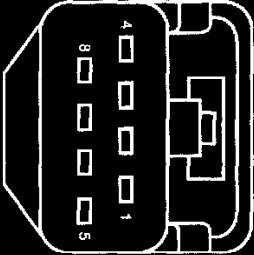
Engine compartment lamp



FEMALE

| Pin | Circuit    | Circuit function                     |
|-----|------------|--------------------------------------|
| 1   | 54 (LG/YE) | Battery saver relay, switched output |
| 2   | 57 (BK)    | Ground                               |

**C2093** (BK)  
**14401**  
 Remote solenoid assembly

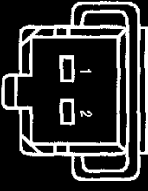


**FEMALE**

| Pin | Circuit      | Circuit function                 |
|-----|--------------|----------------------------------|
| 1   | 1106 (LG/MH) | Remote solenoid assembly, common |
| 2   | 1107 (WH)    | Remote solenoid #1, control      |
| 3   | 1108 (TN/WH) | Remote solenoid #2, control      |
| 4   | 1109 (CG/BK) | Remote solenoid #3, control      |
| 5   | 1110 (LGN/T) | Remote solenoid #4, control      |
| 6   | 1111 (VT)    | Remote solenoid #5, control      |
| 7   | -            | not used                         |
| 8   | -            | not used                         |

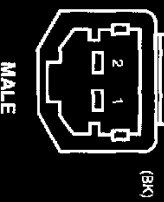
**C907**  
**17C712**  
 Vanity mirror  
 lamp, left  
 (04100)

without roof opening panel



**FEMALE**

with roof opening panel



**MALE**

| Pin | Circuit   | Circuit function                     |
|-----|-----------|--------------------------------------|
| 1   | 54 (LGYE) | Battery saver relay, switched output |
| 2   | 57 (BK)   | Ground                               |

Vanity mirror  
lamp, right  
(04100)

**MALE**

| Pin | Circuit   | Circuit function                     |
|-----|-----------|--------------------------------------|
| 1   | 54 (LGYE) | Battery saver relay, switched output |
| 2   | 57 (BK)   | Ground                               |

### Intake Manifold Tuning Valve (IMTV)

**FEMALE**

| Pin | Circuit     | Circuit function                              |
|-----|-------------|-----------------------------------------------|
| 1   | 361 (FID)   | PCM power relay, switched power               |
| 2   | 570 (BKWH)  | Ground                                        |
| 3   | 1022 (DEYE) | Innate Manifold Turning valve (IMTV), control |
| 4   | —           | not used                                      |

**C150** (BK)

**12A581**

Wheel speed sensor, left front (2C205)



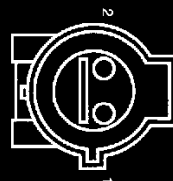
FEMALE

| Pin | Circuit     | Circuit function                         |
|-----|-------------|------------------------------------------|
| 1   | 521 (TM/G)  | Wheel speed sensor, left front (2C205) + |
| 2   | 522 (TM/BK) | Wheel speed sensor, left front (2C205) - |

**C160** (BK)

**12A581**

Wheel speed sensor, right front (2C204)

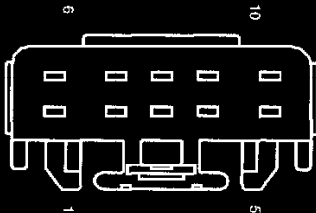


FEMALE

| Pin | Circuit     | Circuit function                          |
|-----|-------------|-------------------------------------------|
| 1   | 516 (YE/BK) | Wheel speed sensor, right front (2C204) - |
| 2   | 514 (YE/RD) | Wheel speed sensor, right front (2C204) + |

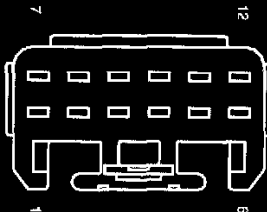


**C202a** (GY)  
**14401**  
Multifunction switch



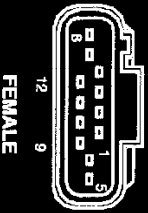
| Pin | Circuit     | Circuit function                                    |
|-----|-------------|-----------------------------------------------------|
| 1   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps   |
| 2   | 44 (LB)     | Indicator flasher relay (13350), turn signal output |
| 3   | 385 (WH/RD) | Indicator flasher relay (13350), hazard, output     |
| 4   | -           | not used                                            |
| 5   | -           | not used                                            |
| 6   | 196 (DB/OG) | Voltage supplied at all times (overload protected)  |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                       |
| 8   | 15 (RD/YE)  | Power, Hot with Headlamps on                        |
| 9   | 13 (RD/BK)  | Power, Hot with Low Beams on                        |
| 10  | -           | not used                                            |

**C202b** (GY)  
**14401**  
Multifunction switch



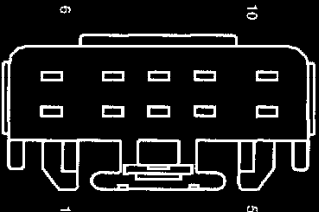
| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 63 (RD)    | Front wiper switch circuit A  |
| 2   | 56 (DB/OG) | Front wiper switch circuit C  |
| 3   | 58 (WH)    | Front wiper switch circuit B  |
| 4   | 61 (YE/RD) | Front wiper switch circuit H  |
| 5   | 589 (OG)   | Front washer switch circuit W |
| 6   | 57 (BK)    | Ground                        |
| 7   | 2 (WH/LB)  | Turn lamps, feed, right front |
| 8   | 5 (OG/LB)  | Turn lamps, feed, right rear  |
| 9   | 9 (LG/OG)  | Turn lamps, feed, left rear   |
| 10  | 3 (LG/WH)  | Turn lamps, feed, left front  |
| 11  | -          | not used                      |
| 12  | -          | not used                      |

**C125** (BK)  
**12A581**  
Windshield wiper motor (170339)



| Pin | Circuit      | Circuit function                                   |
|-----|--------------|----------------------------------------------------|
| 1   | 61 (YE/RD)   | Front wiper switch circuit H                       |
| 2   | —            | not used                                           |
| 3   | 676 (PK/OG)  | Ground                                             |
| 4   | 679 (GY/BK)  | Vehicle Speed Sensor (VSS), signal                 |
| 5   | 65 (DG)      | Voltage supplied at all times (overload protected) |
| 6   | 57 (BK)      | Ground                                             |
| 7   | 941 (BK/MH)  | Windshield washer pump motor (17618), feed         |
| 8   | 1002 (BK/PK) | Voltage in Run or Accessory (overload protected)   |
| 9   | 63 (RD)      | Front wiper switch circuit A                       |
| 10  | 56 (DB/OG)   | Front wiper switch circuit C                       |
| 11  | 58 (WH)      | Front wiper switch circuit B                       |
| 12  | 589 (OG)     | Front washer switch circuit W                      |

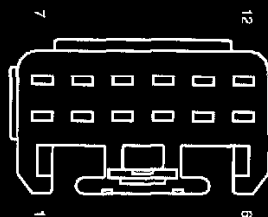
**C202a** (GY)  
**14401**  
Multifunction switch



| Pin | Circuit     | Circuit function                                    |
|-----|-------------|-----------------------------------------------------|
| 1   | 511 (LG)    | Brake pedal position switch (13480), to stoplamps   |
| 2   | 44 (LB)     | Indicator flasher relay (13350), turn signal output |
| 3   | 385 (WH/RD) | Indicator flasher relay (13350), hazard, output     |
| 4   | —           | not used                                            |
| 5   | —           | not used                                            |
| 6   | 196 (DB/OG) | Voltage supplied at all times (overload protected)  |
| 7   | 632 (GY/OG) | Power, Hot with High Beams on                       |
| 8   | 15 (RD/YE)  | Power, Hot with Headlamps on                        |
| 9   | 13 (RD/BK)  | Power, Hot with Low Beams on                        |
| 10  | —           | not used                                            |

**C202b** (GV)**14401**

Multifunction switch

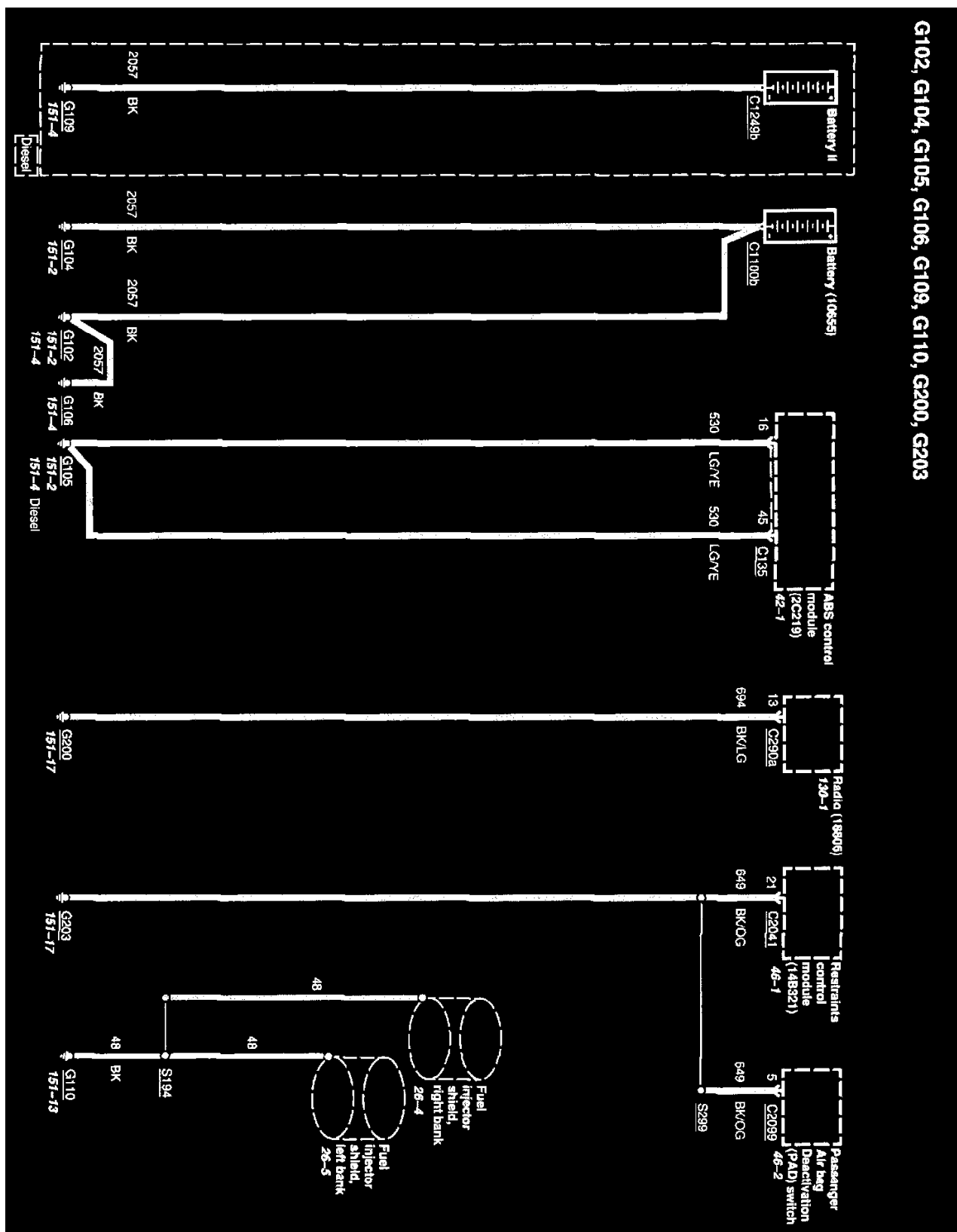


| Pin | Circuit    | Circuit function              |
|-----|------------|-------------------------------|
| 1   | 63 (RD)    | Front wiper switch circuit A  |
| 2   | 56 (DB/OG) | Front wiper switch circuit C  |
| 3   | 58 (WH)    | Front wiper switch circuit B  |
| 4   | 61 (YE/RD) | Front wiper switch circuit H  |
| 5   | 589 (OG)   | Front washer switch circuit W |
| 6   | 57 (BK)    | Ground                        |
| 7   | 2 (WH/LB)  | Turn lamps, feed, right front |
| 8   | 5 (OG/LB)  | Turn lamps, feed, right rear  |
| 9   | 9 (LG/OG)  | Turn lamps, feed, left rear   |
| 10  | 3 (LG/WH)  | Turn lamps, feed, left front  |
| 11  | -          | not used                      |
| 12  | -          | not used                      |

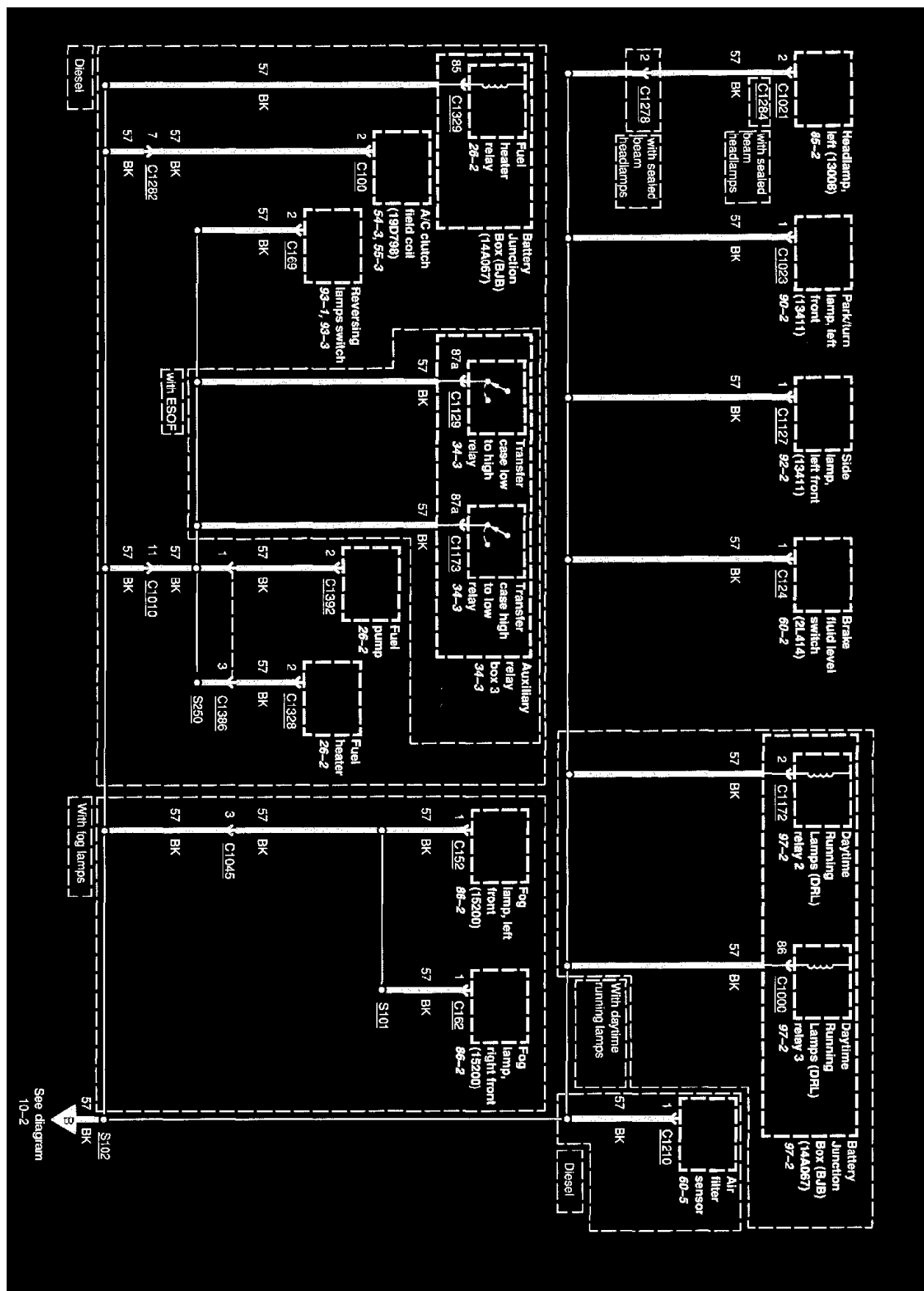
**Please Note**

**Please Note:** When selecting diagrams by their ID numbers, some diagram sets may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do NOT apply to the vehicle model selected.

## G102, G104, G105, G106, G109, G110, G200, G203







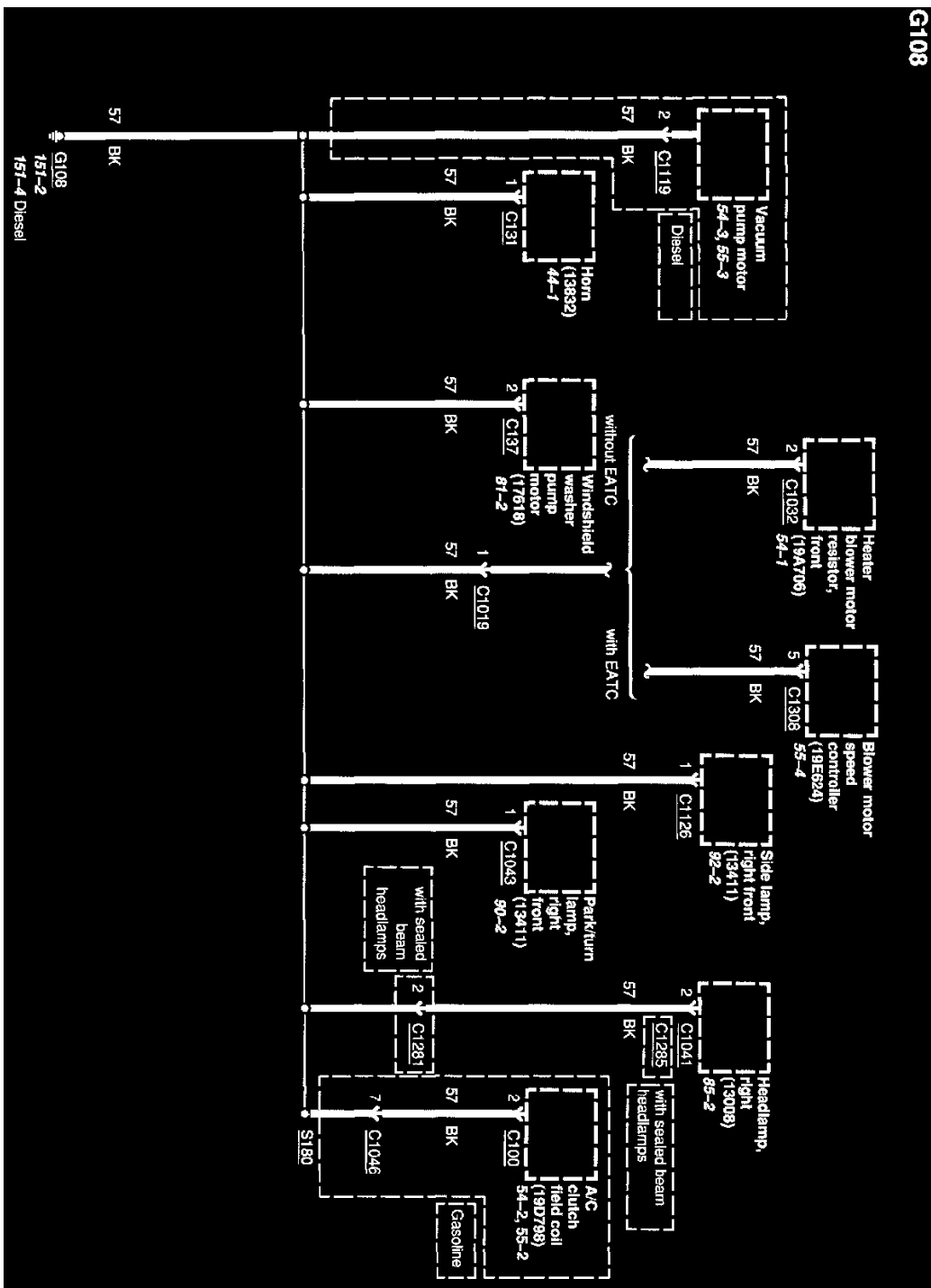
**G102: Gasoline**

Wiring diagram for G102 Gasoline engine. The diagram shows a network of wires connecting various components. The main power source is labeled **G102 151-2**. The diagram is organized into several functional blocks:

- Fuel System:** Fuel pump relay (24-6, 24-7, 25-6, 25-7, 25-2), PCM power relay (24-1, 25-1, 25-2), and PCM power diode (24-1, 25-1).
- Lighting/Signal:** Trailer tow relay/parking lamp (85-8) and HTD mirror relay (124-2).
- Upfitter:** Upfitter relay (140-2, 14A057).
- Central Junction Box (CJB):** Central Junction Box (14A057).
- Powertrain Control:** Powertrain Control Module (PCM) (12A650) (24-1, 25-1).
- Charge Motion Control Valve (CMCV):** Charge Motion Control Valve (24-3).
- Mass Air Flow (MAF) Sensor:** Mass Air Flow (MAF) sensor (13450) (24-1, 25-1).
- Intake Manifold Tuning Valve (IMTV):** Intake Manifold Tuning Valve (25-3).
- Data Link Connector (DLC):** Data Link Connector (DLC) (14A59) (14-1).
- Clutch Pedal Position Switch:** Clutch pedal position switch (20-4) and manual transmission.
- Other Components:** C1444, C128, C191, S143, C110, C1251, C146, S106, C2701, C175b, C257, C143, C191, S143, C110, C1251, C146, S106.

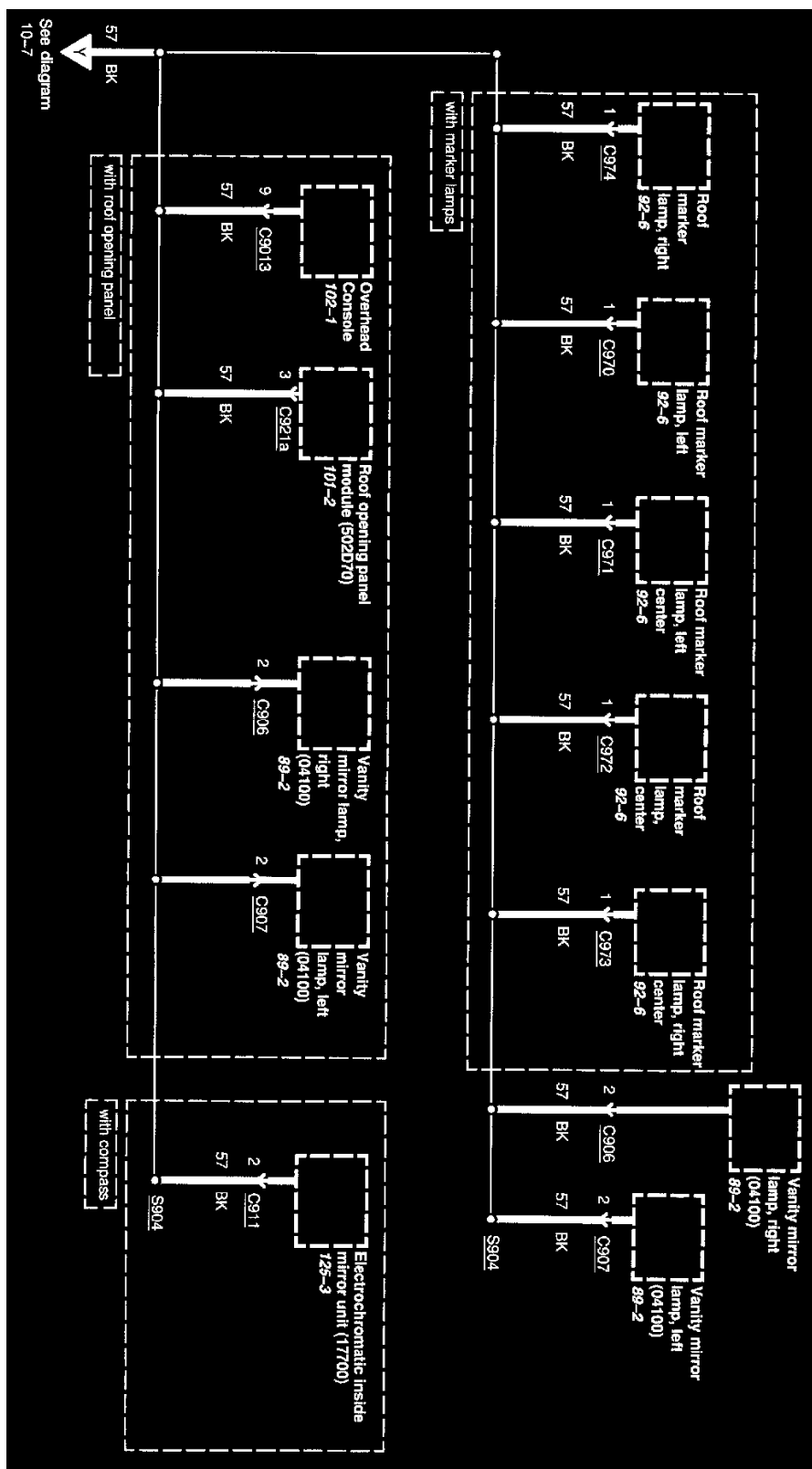
The diagram uses a color-coded system: **BK/WH** (Black/White), **570** (Wire Gauge), and various alphanumeric codes for components and connectors.

G108

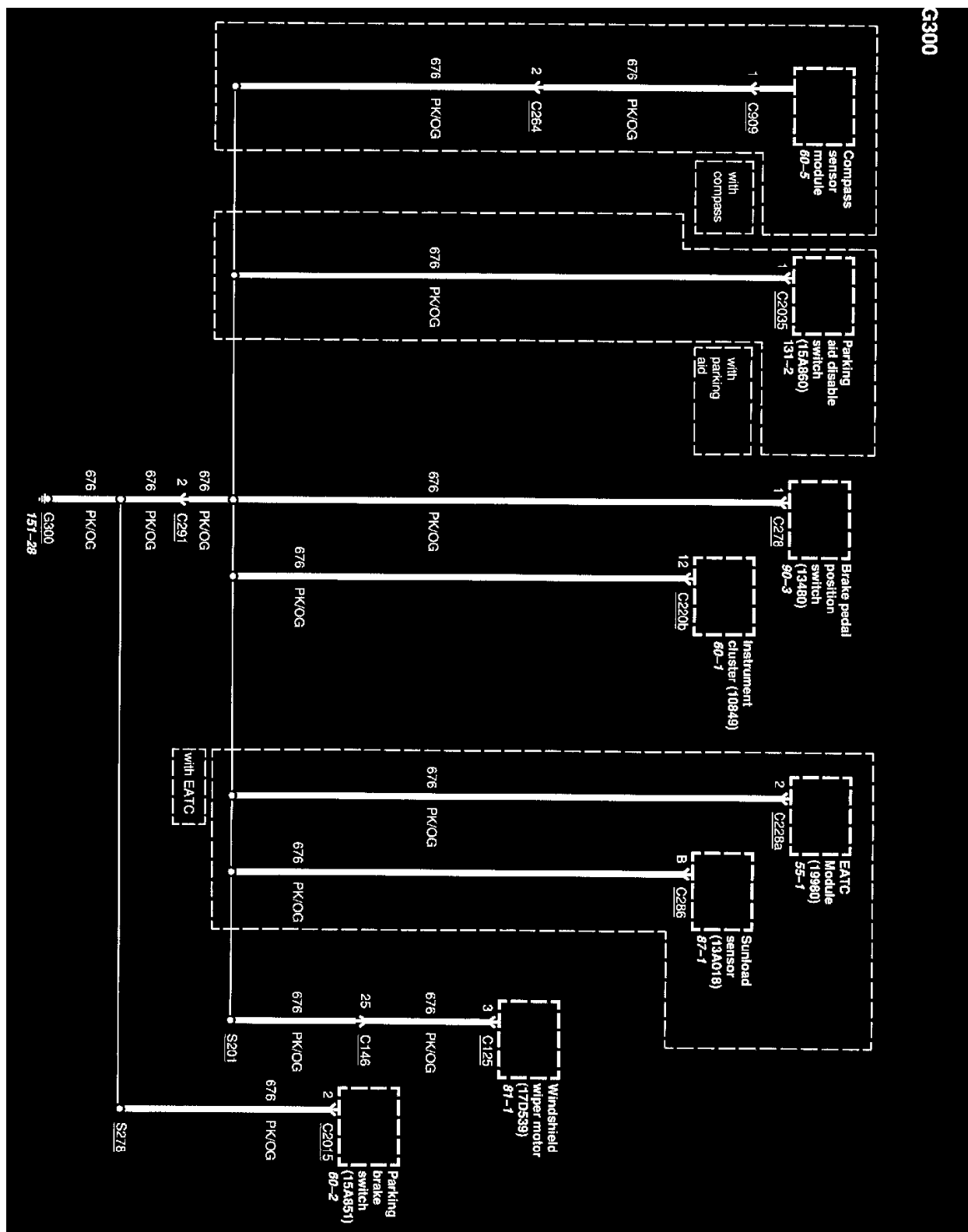




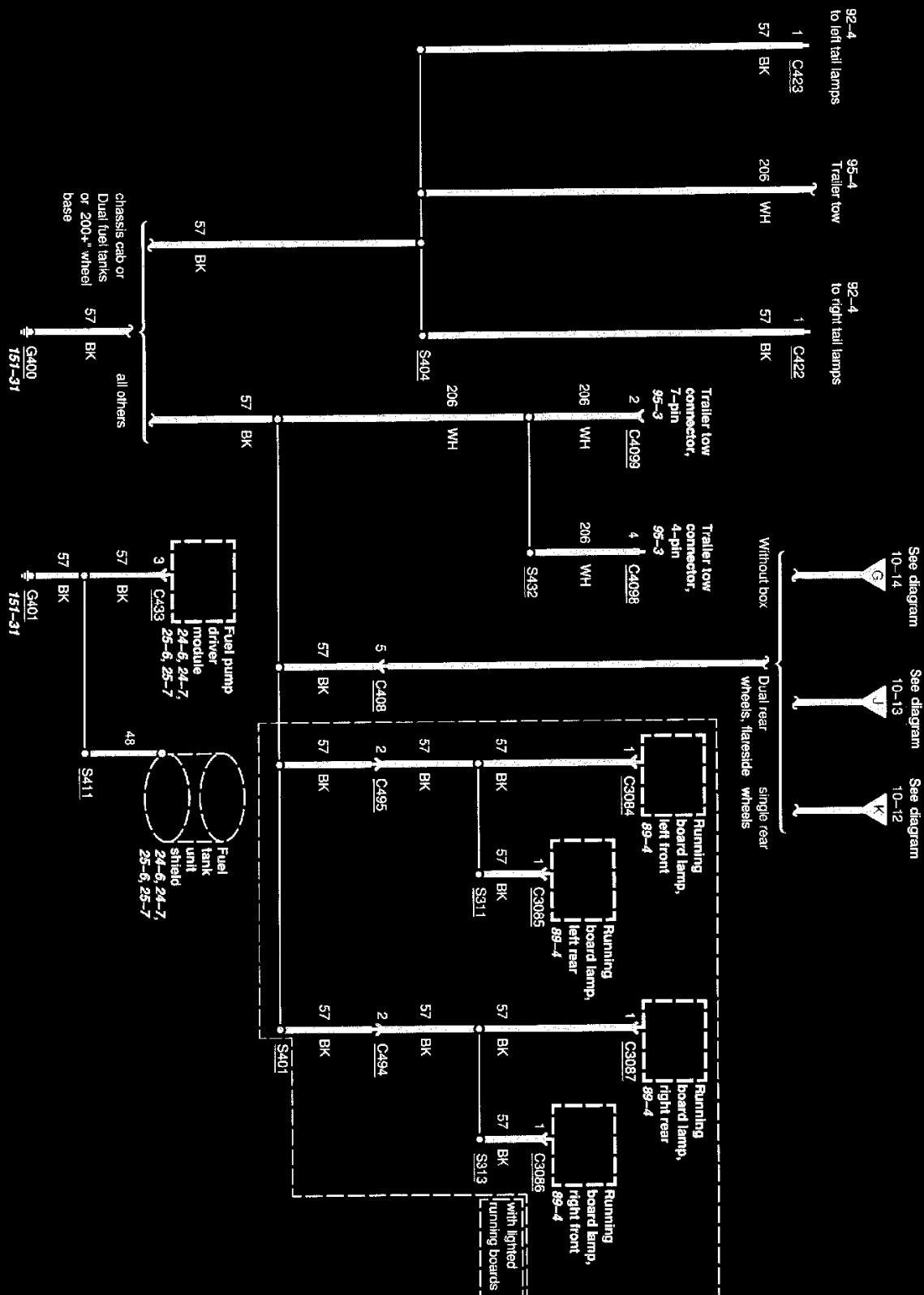




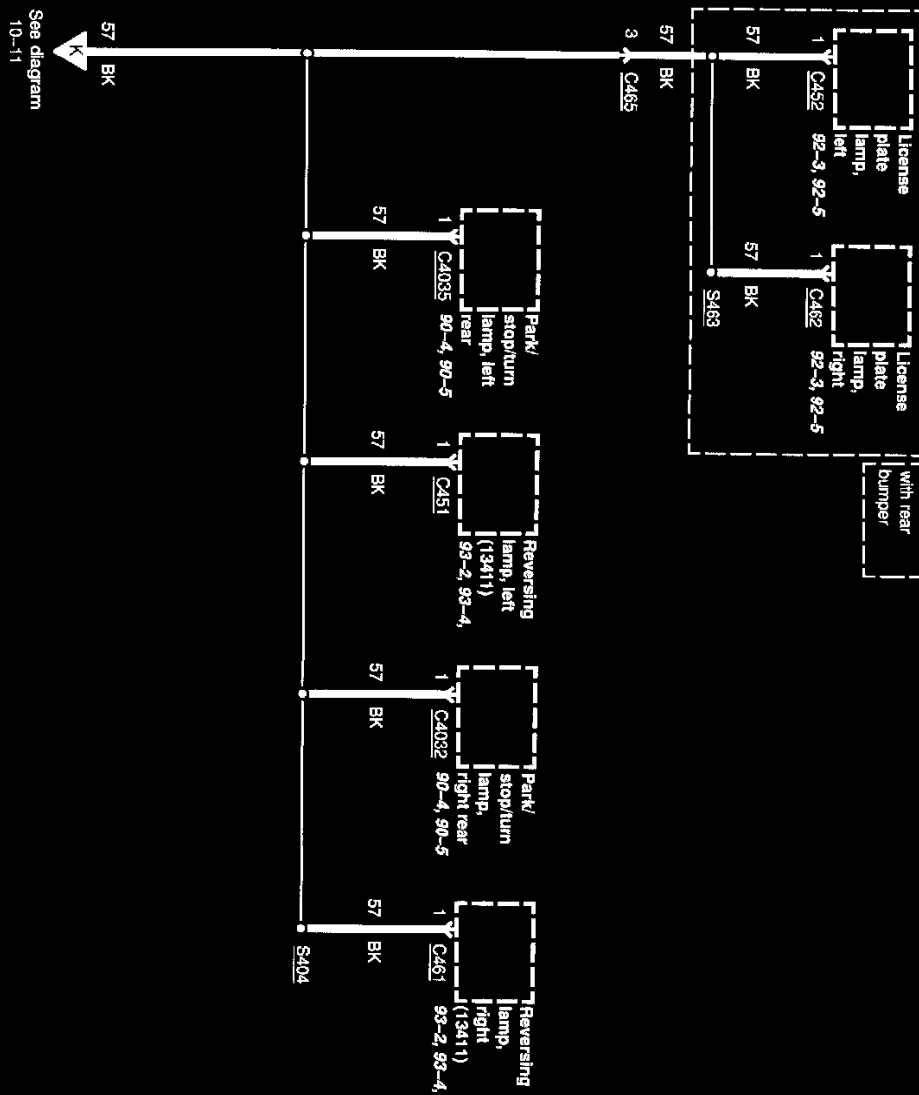




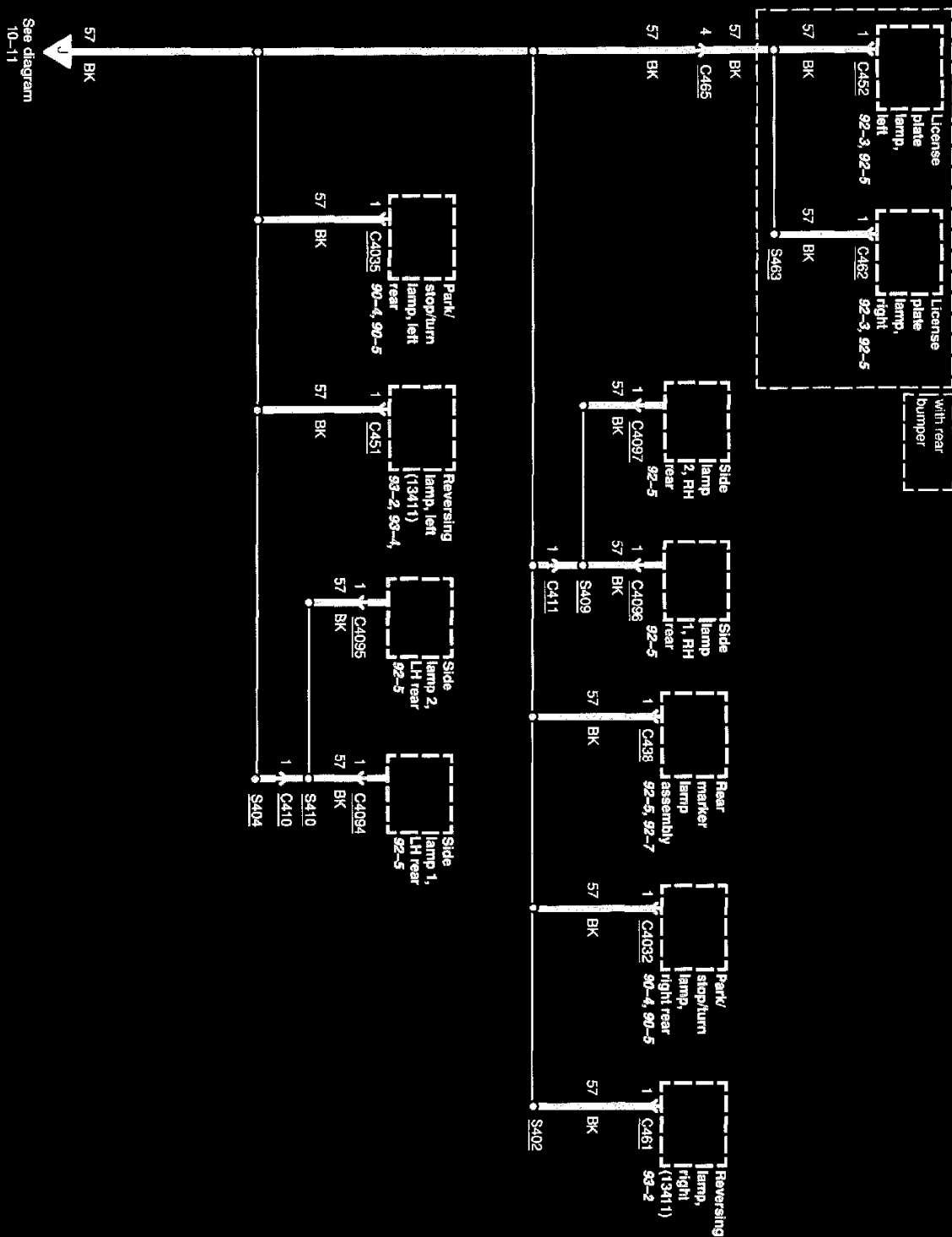
## G400, G401

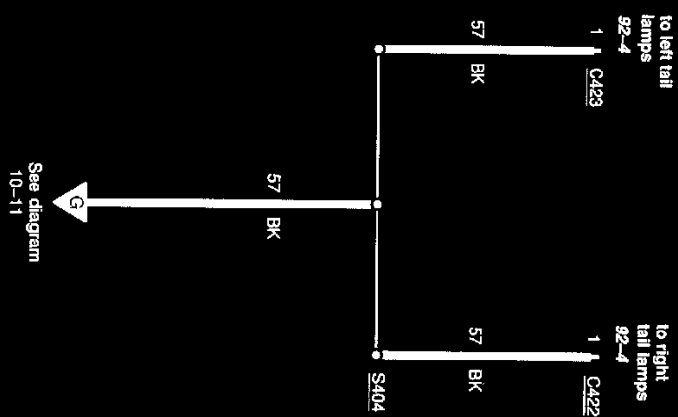


## Single rear wheels



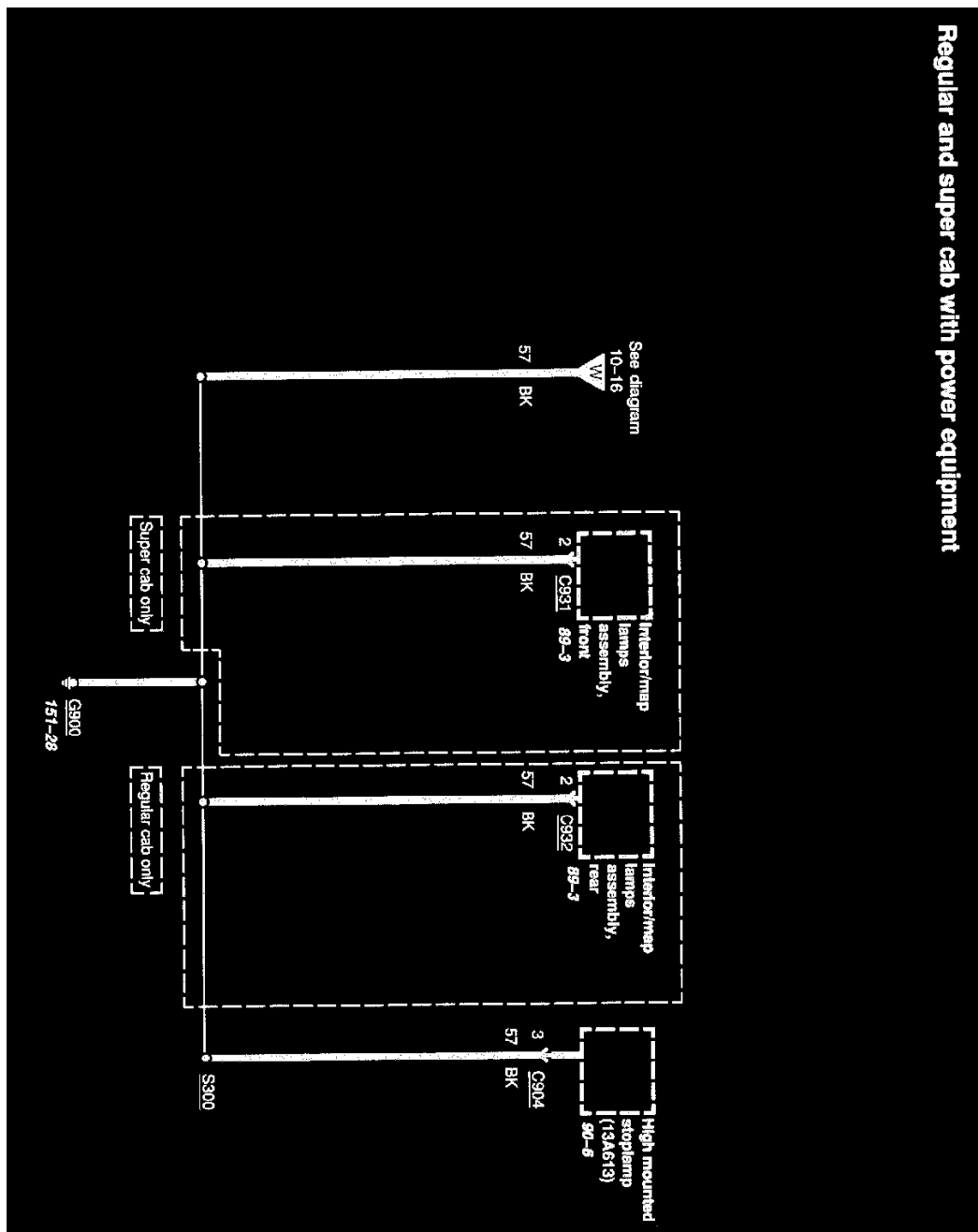
## Dual rear wheels, flareside



**Without box**

10-14

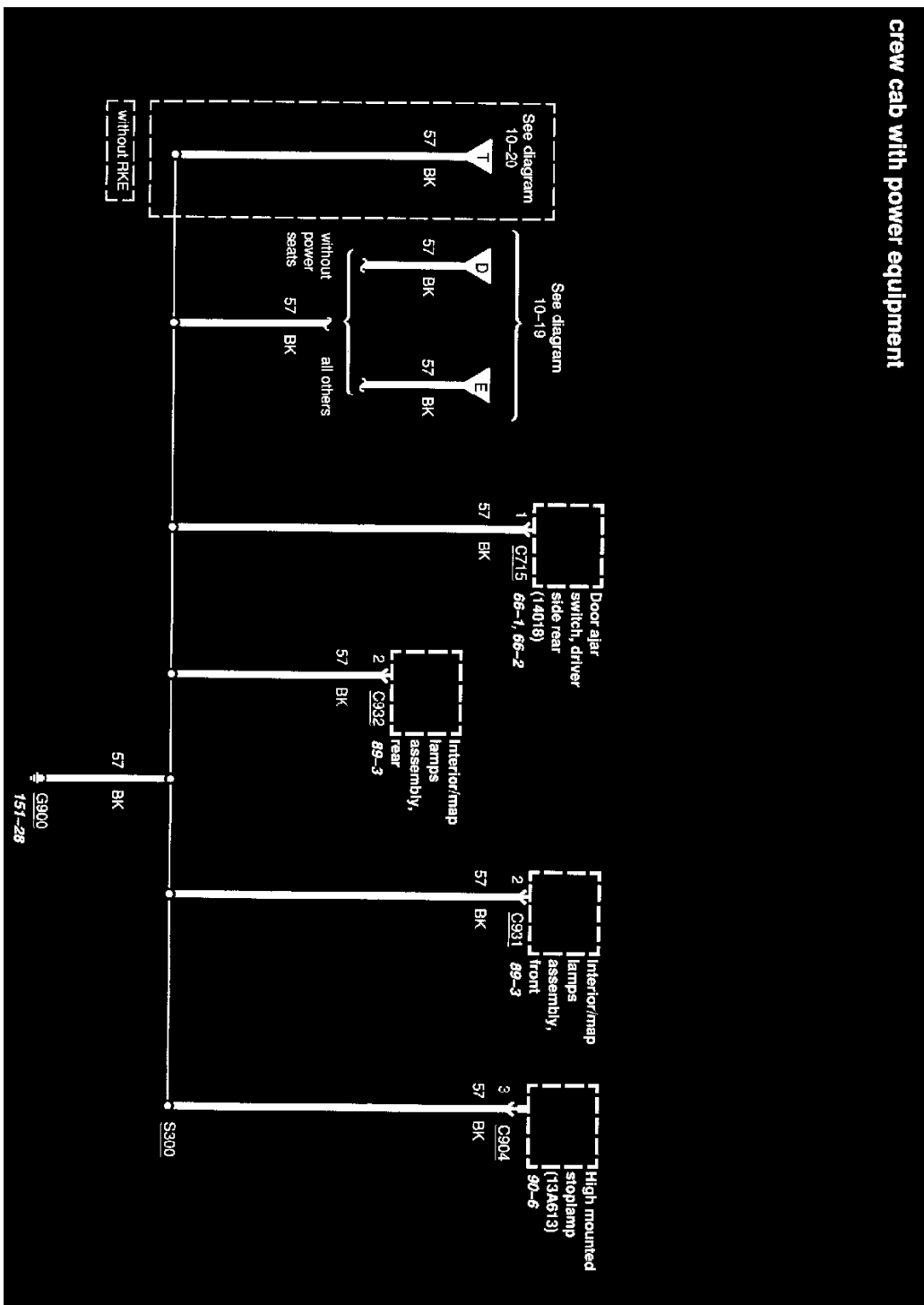


**Regular and super cab with power equipment**

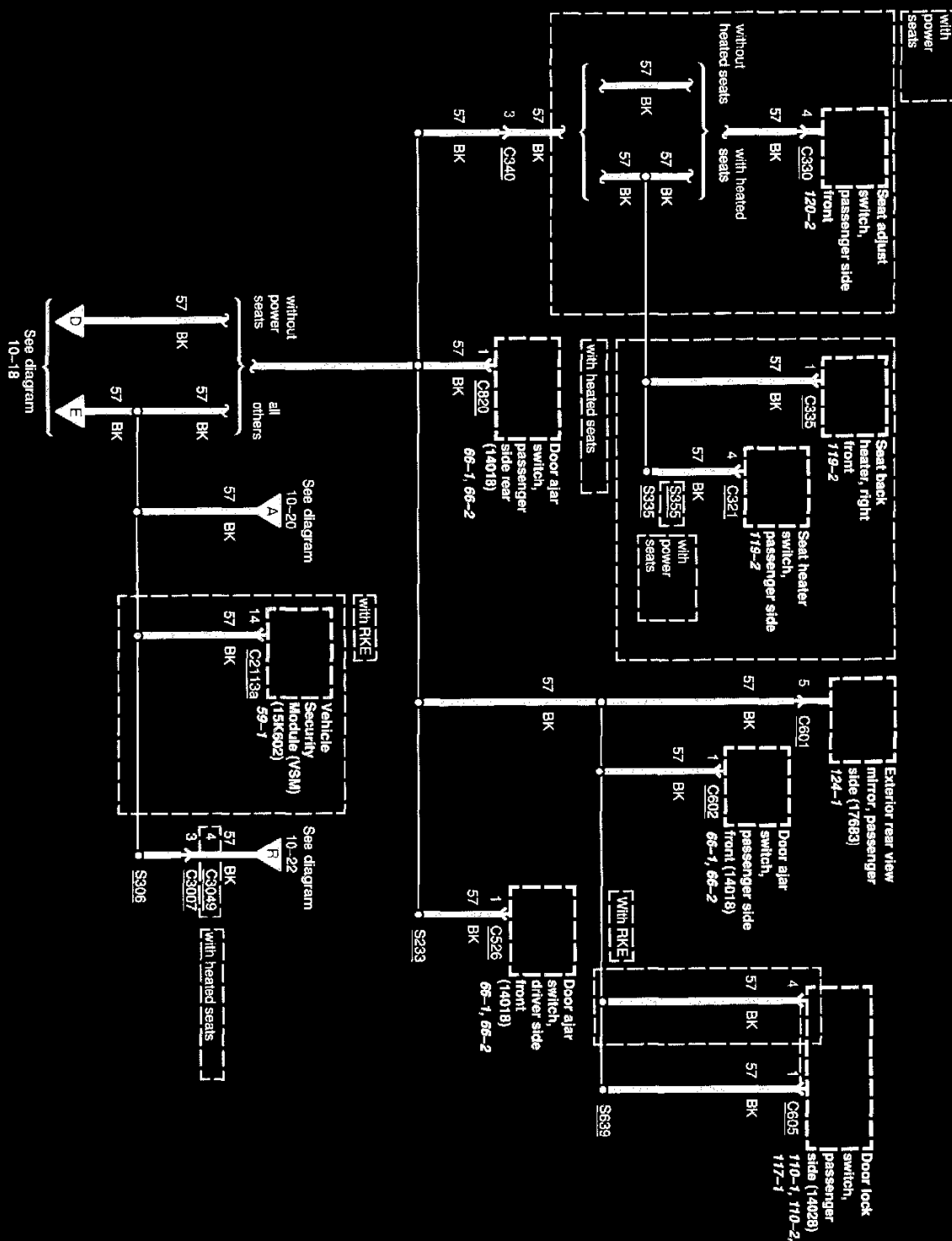


See diagram  
10-16

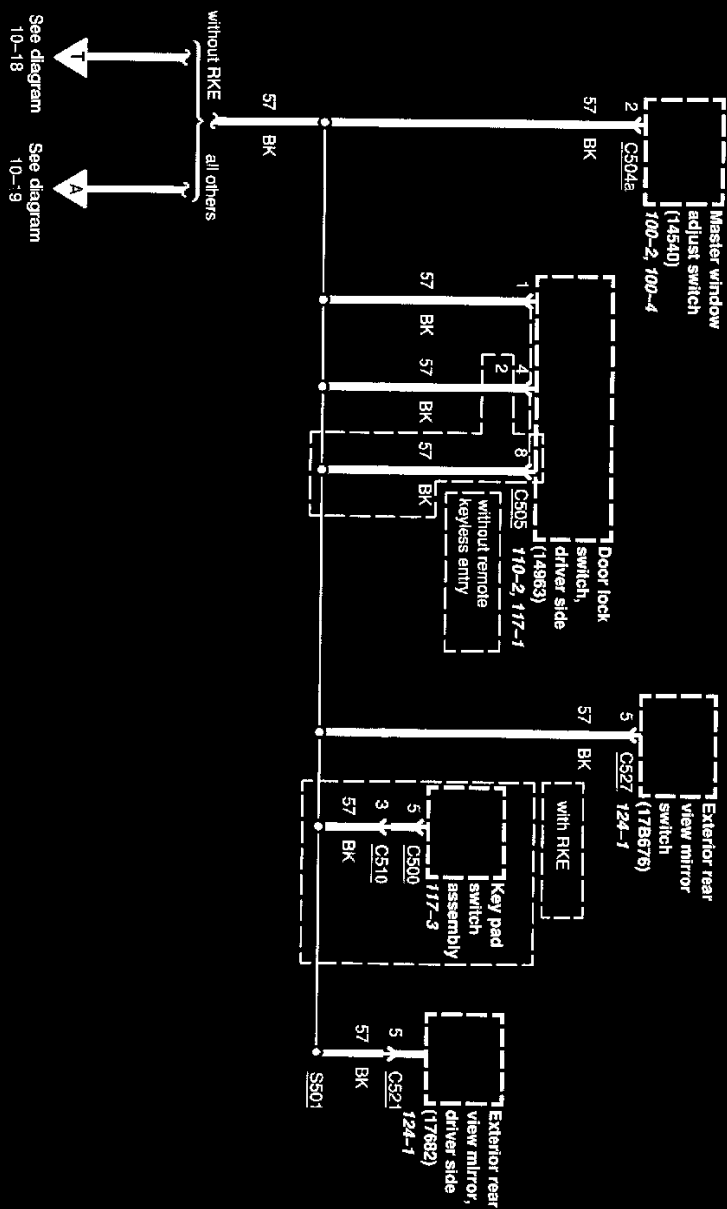
## crew cab with power equipment



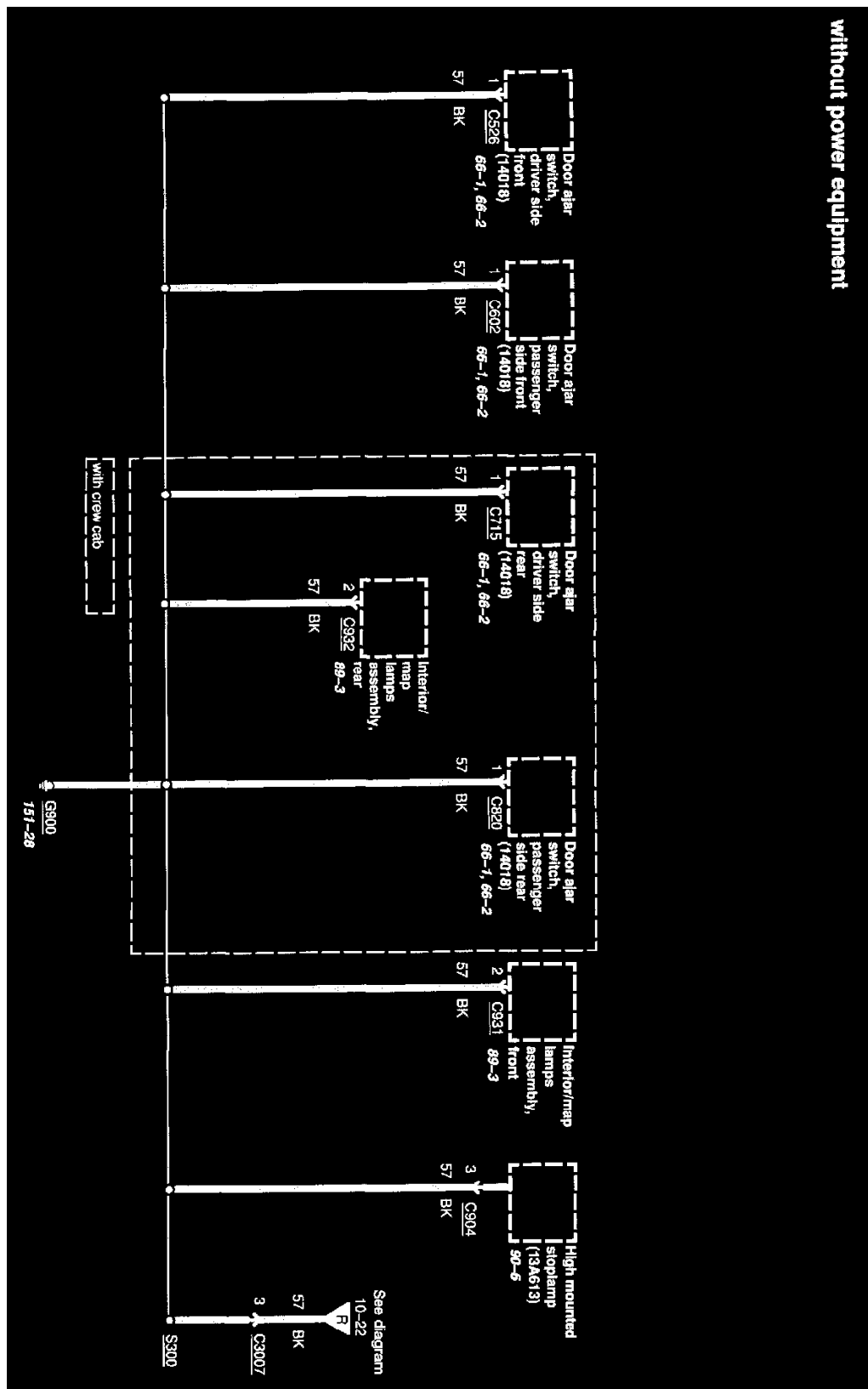
# crew cab with power equipment

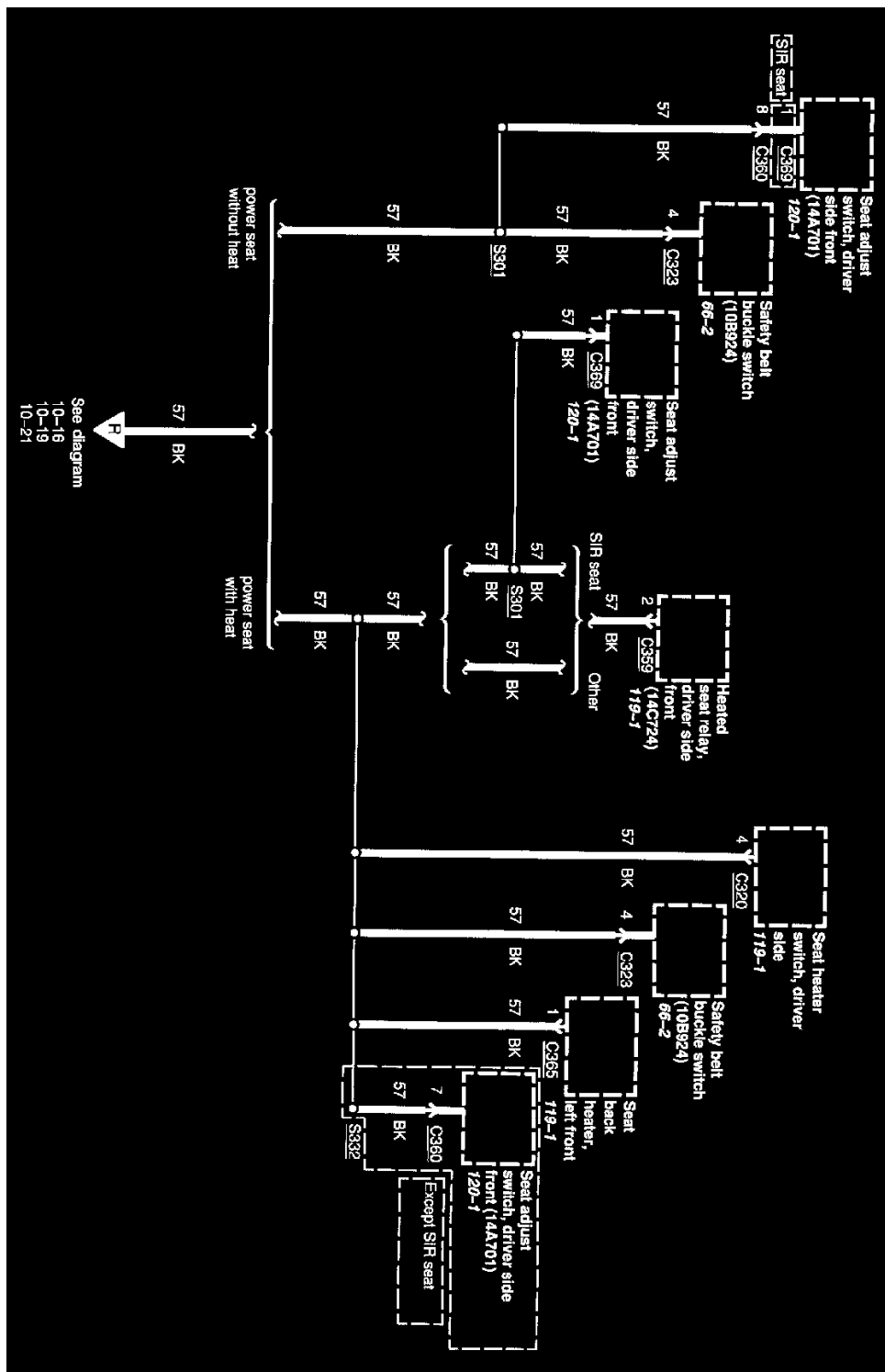


## crew cab with power equipment



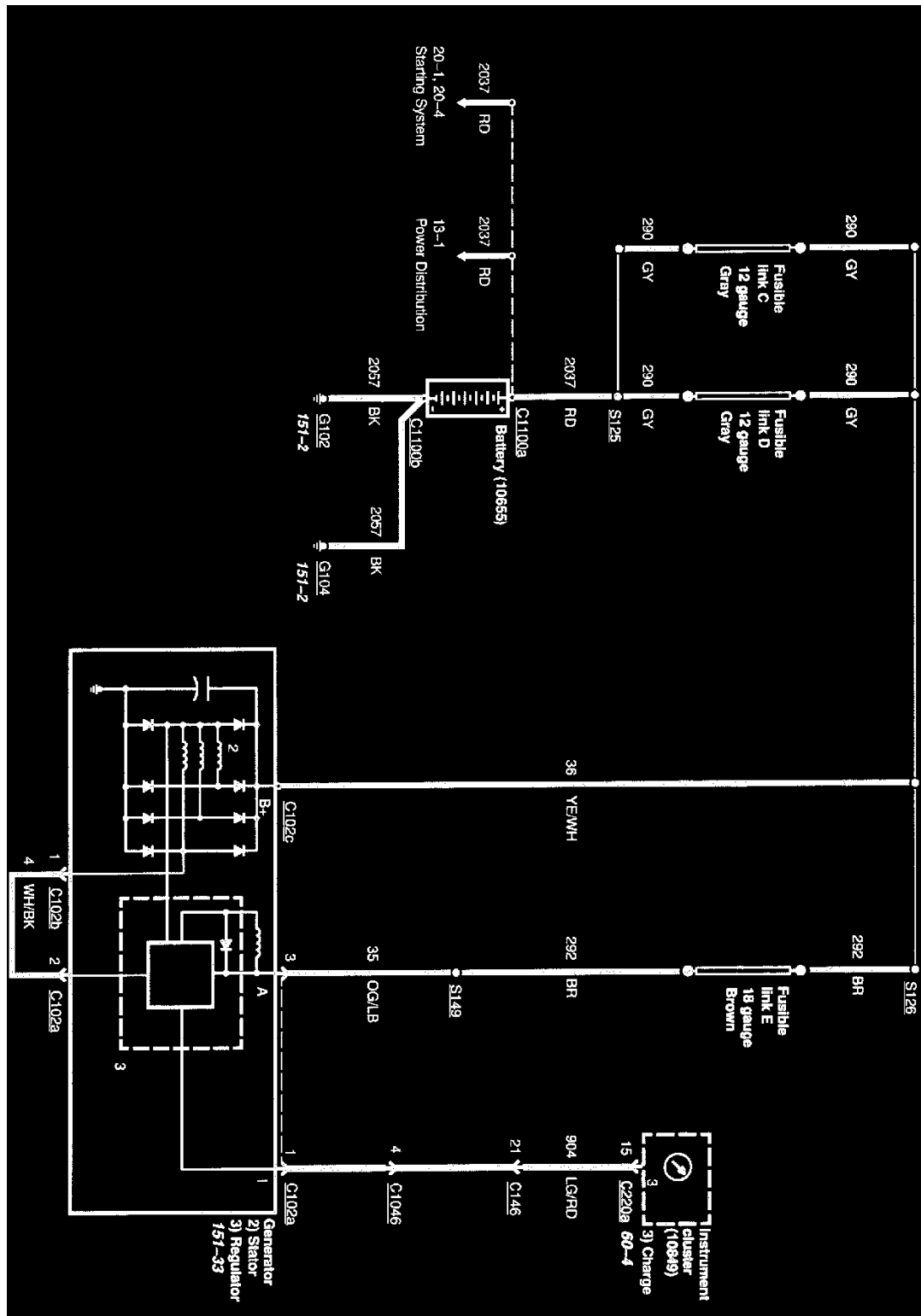
## without power equipment



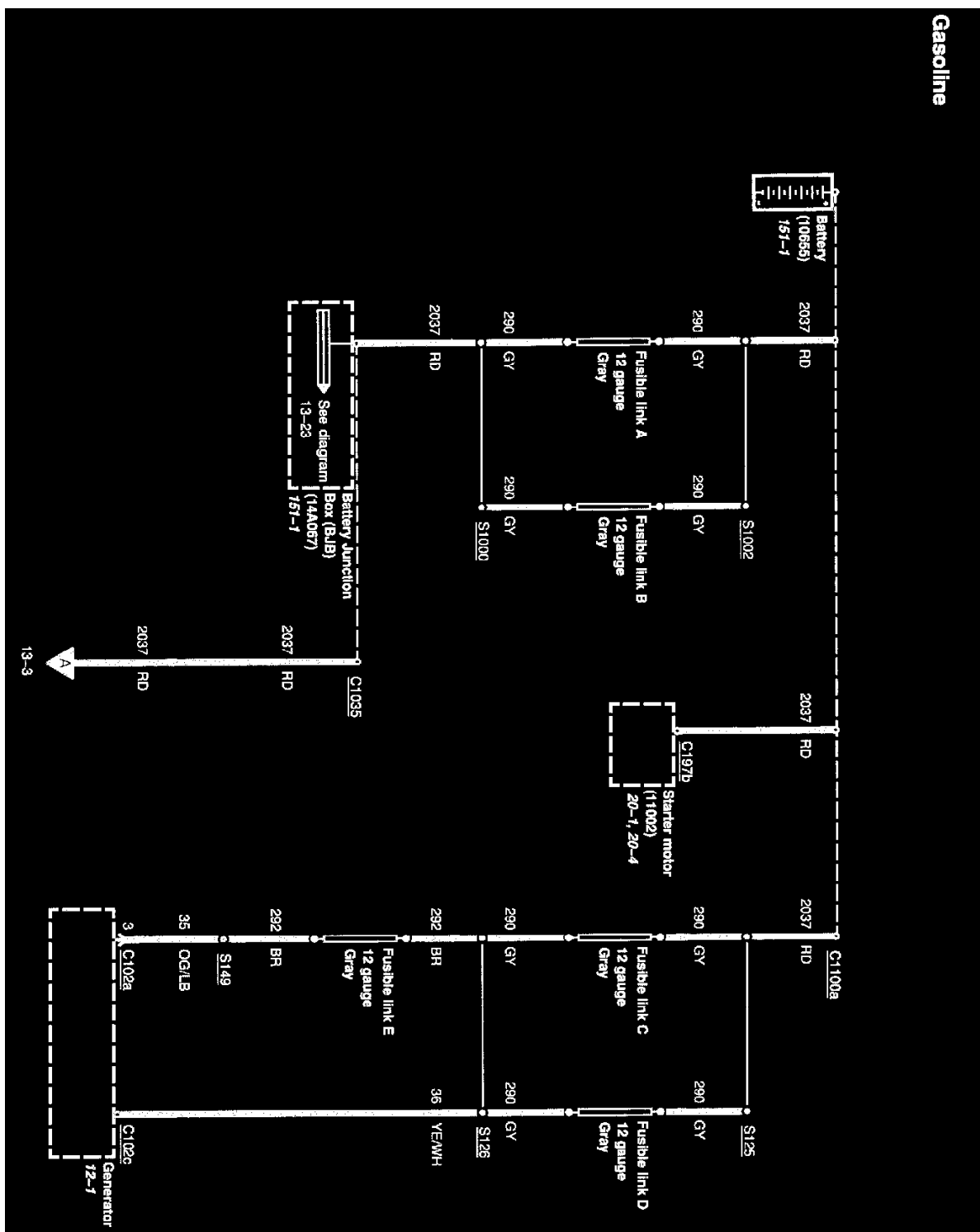




## Gasoline

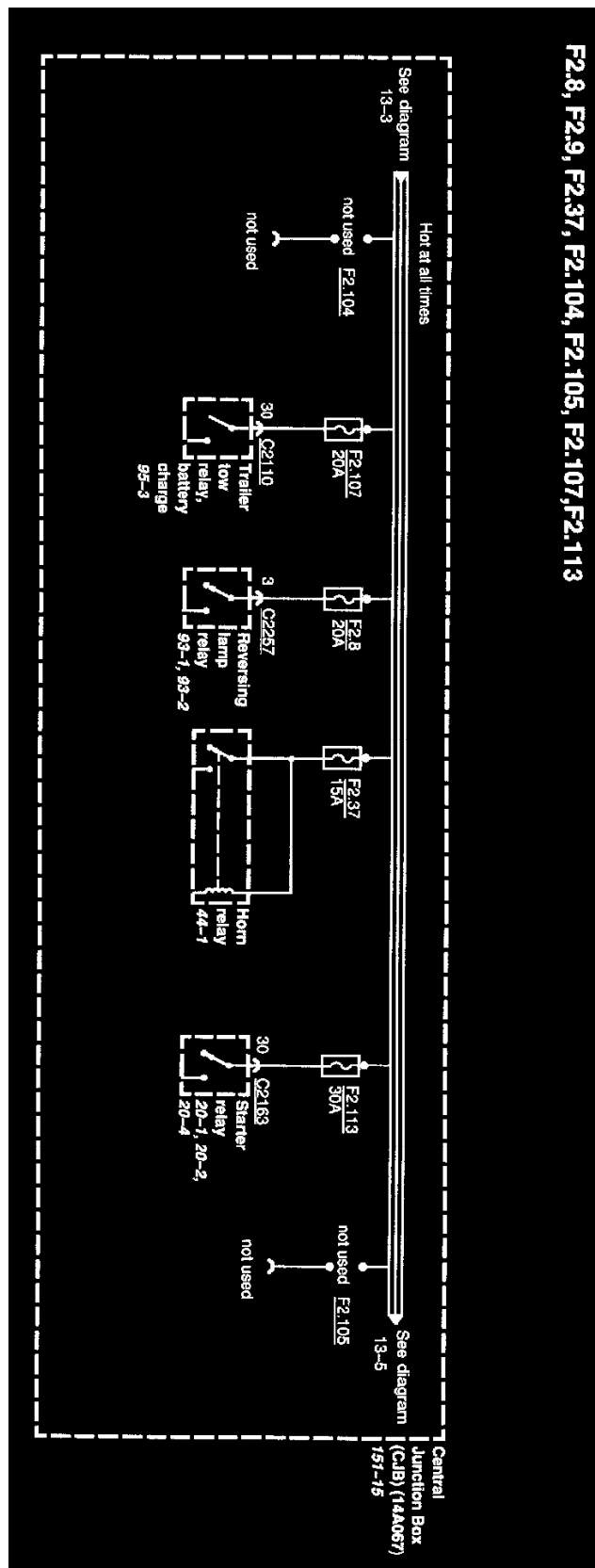


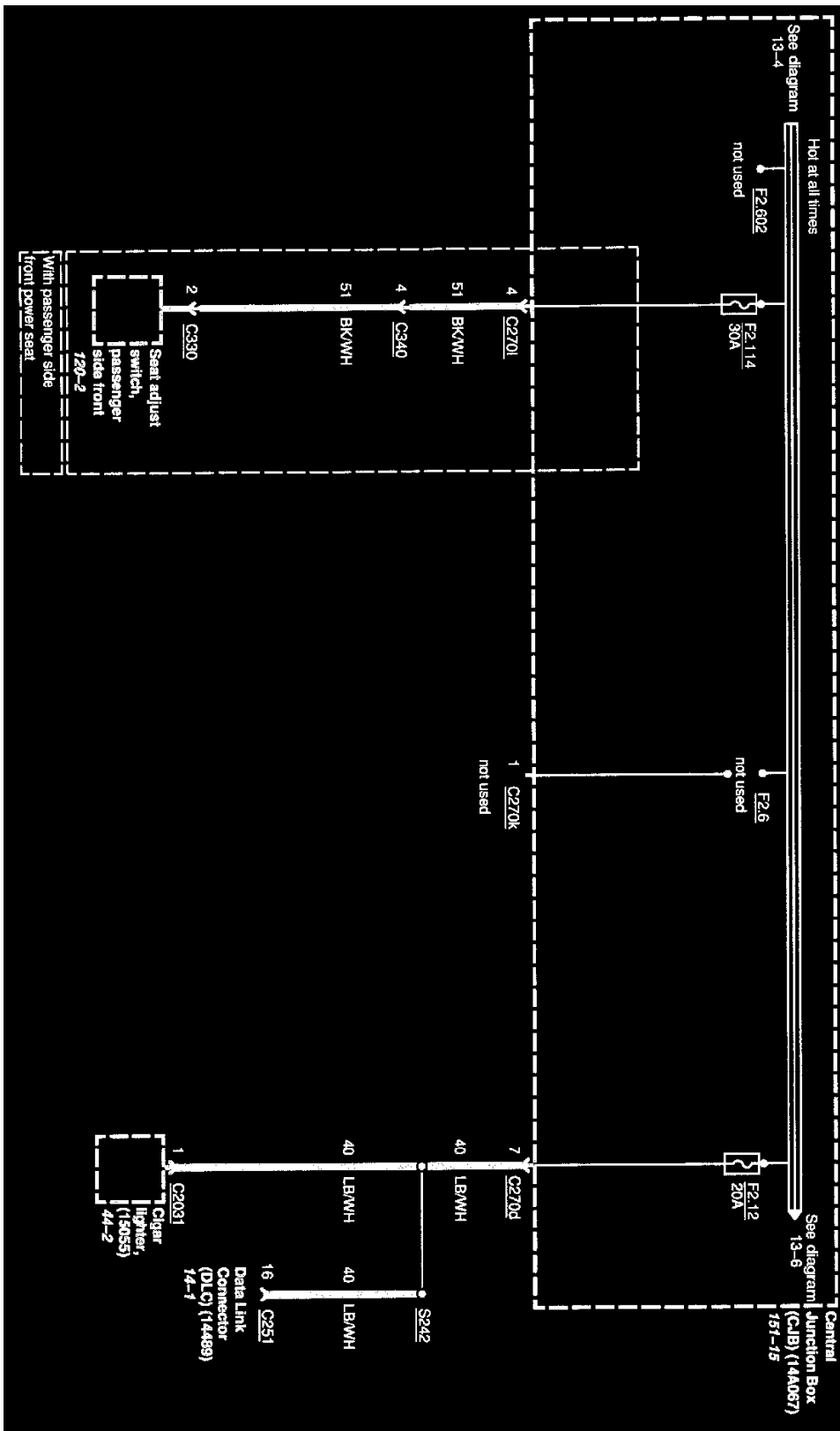
## Gasoline



See diagram  
13-1 Gasoline  
13-2 Diesel  
RD  
2037



**F2.8, F2.9, F2.37, F2.104, F2.105, F2.107, F2.113**

**F2.6, F2.12, F2.114, F2.602**

**13-6**

See diagram 13-6

Hot at all times

See diagram 13-8

See diagram 13-25

without power equipment

with power equipment

without electronic shift on the fly

with electronic shift on the fly

Vehicle Security Module (VSM) (15K602) 98-1

with remote keyless entry

Four-wheel drive control module (148466) 34-2

Exterior rear view mirror switch (17B676) 124-1

Trailer Electronic brake control module 95-9

Central Junction Box (CJB) (14A067) 151-15

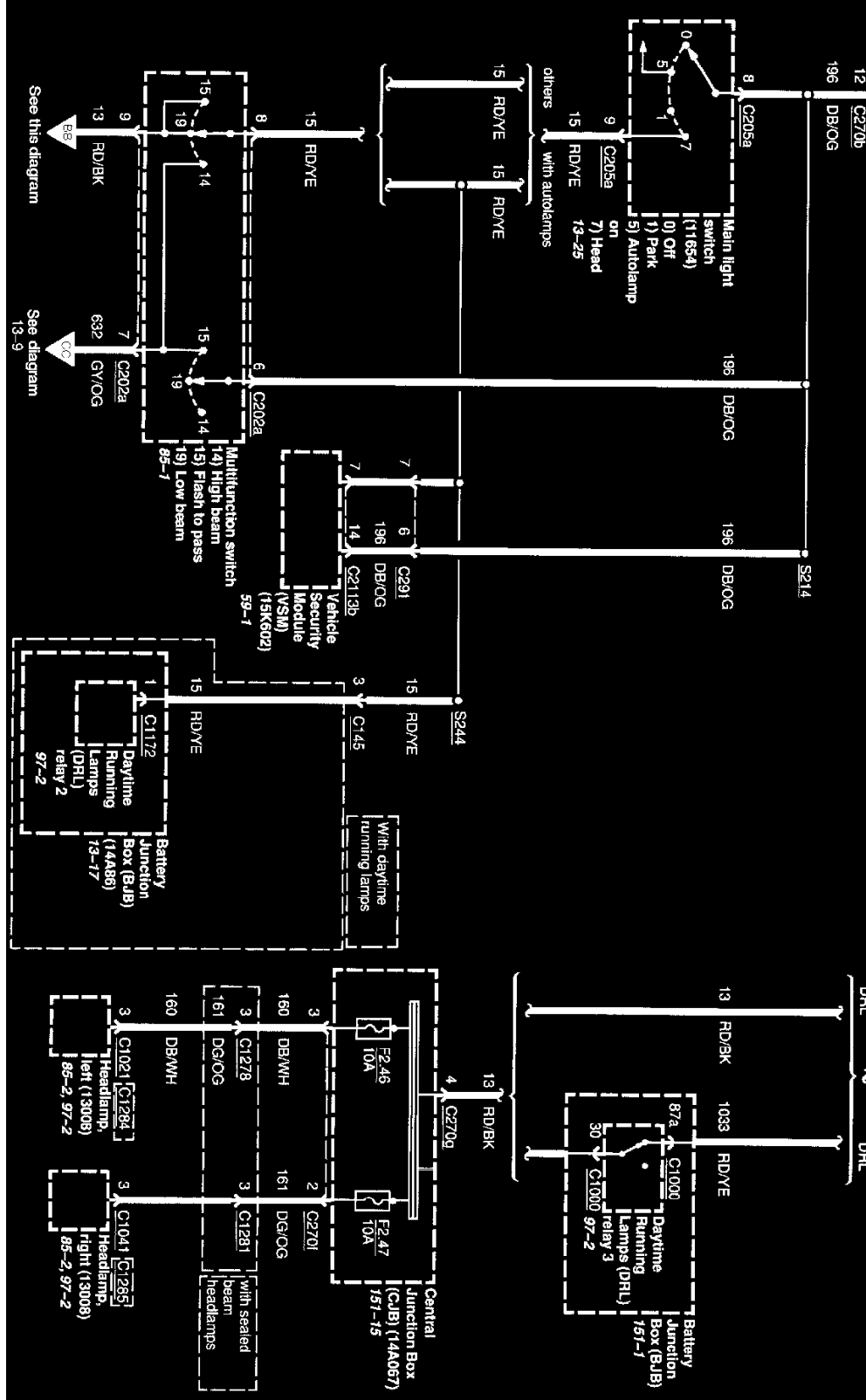
Central Junction Box  
(CJB) (14A067)  
151-15

See diagram 13-10

Hot at all times

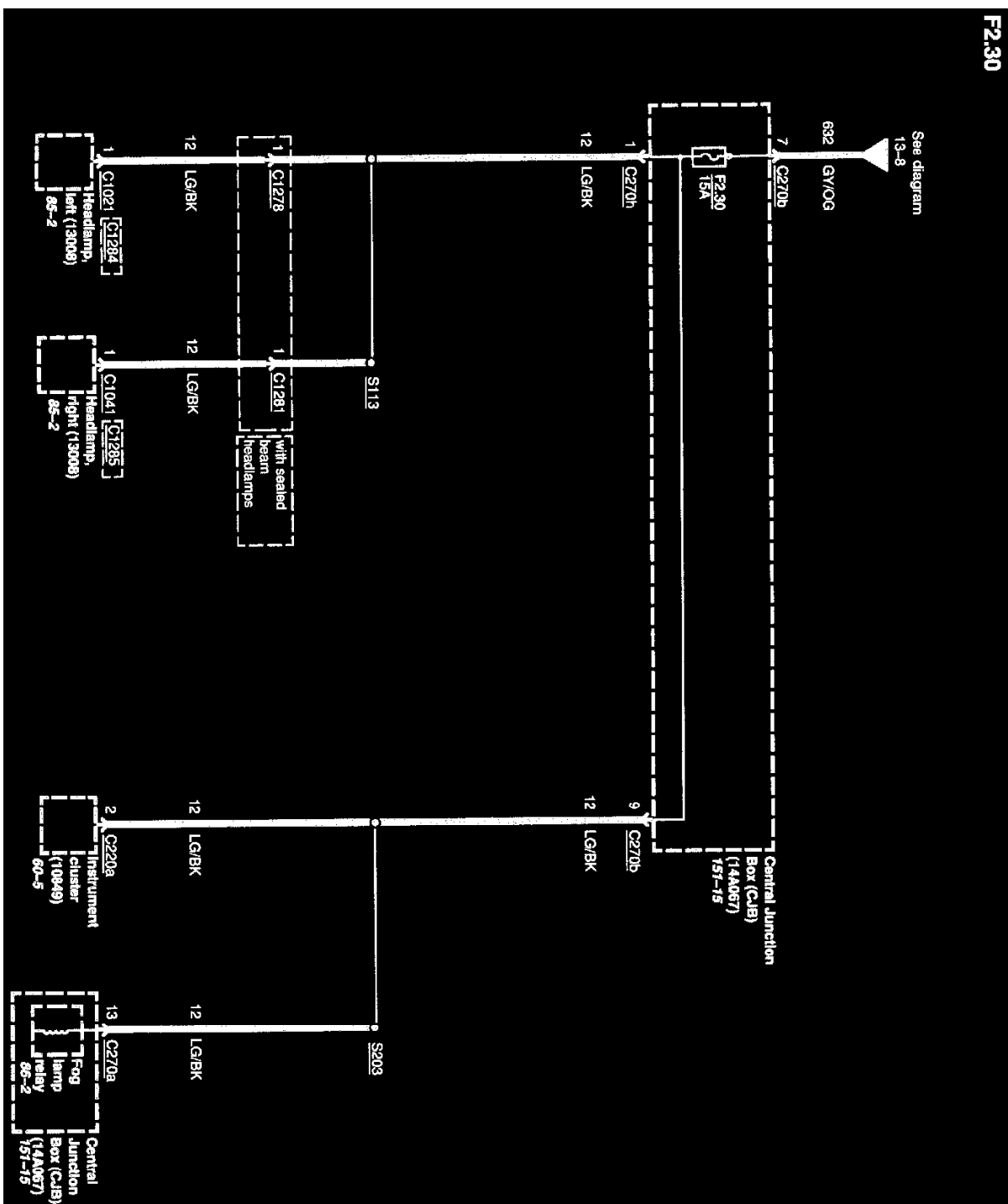
See diagram 13-7

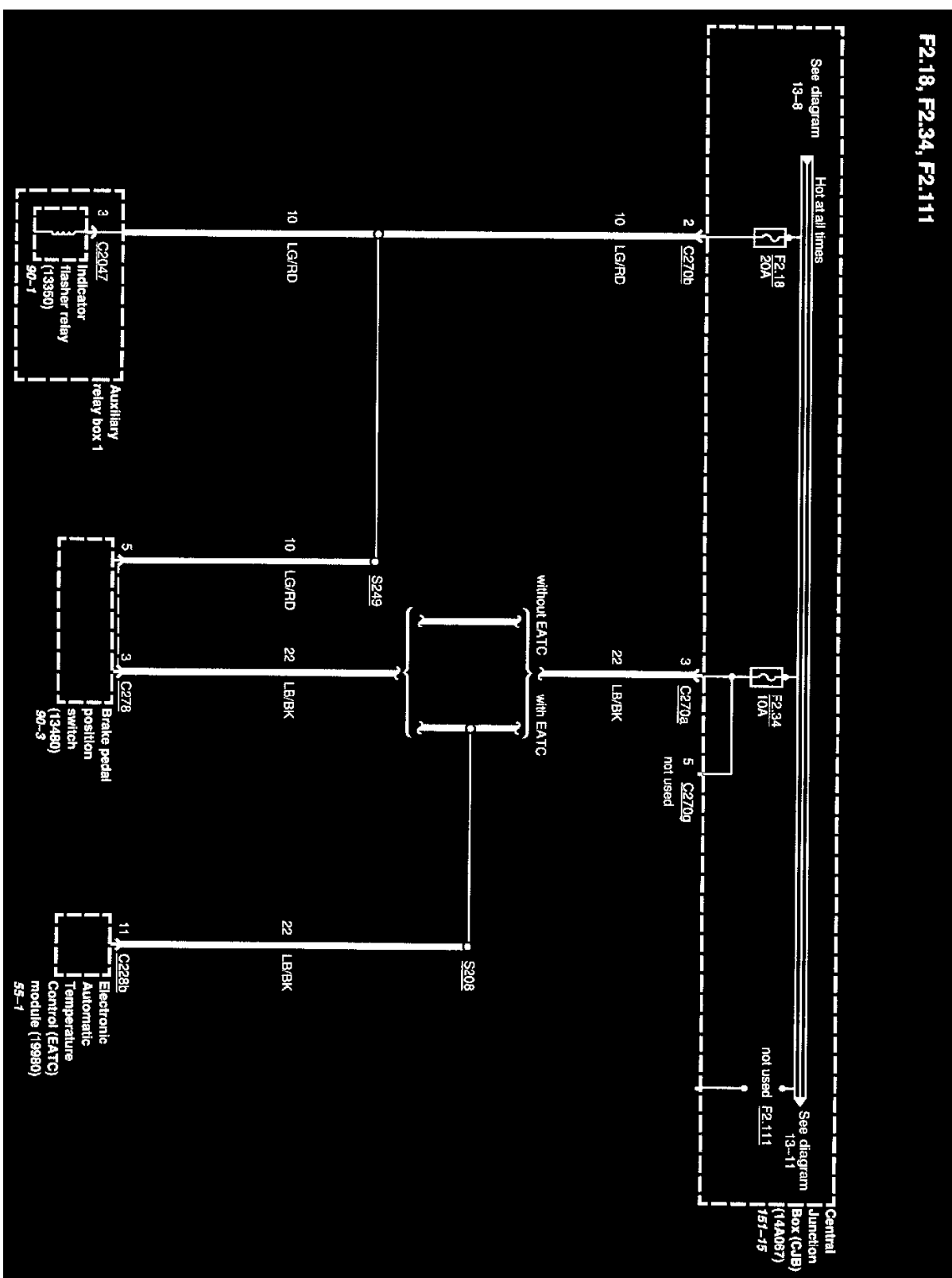
E27  
30A

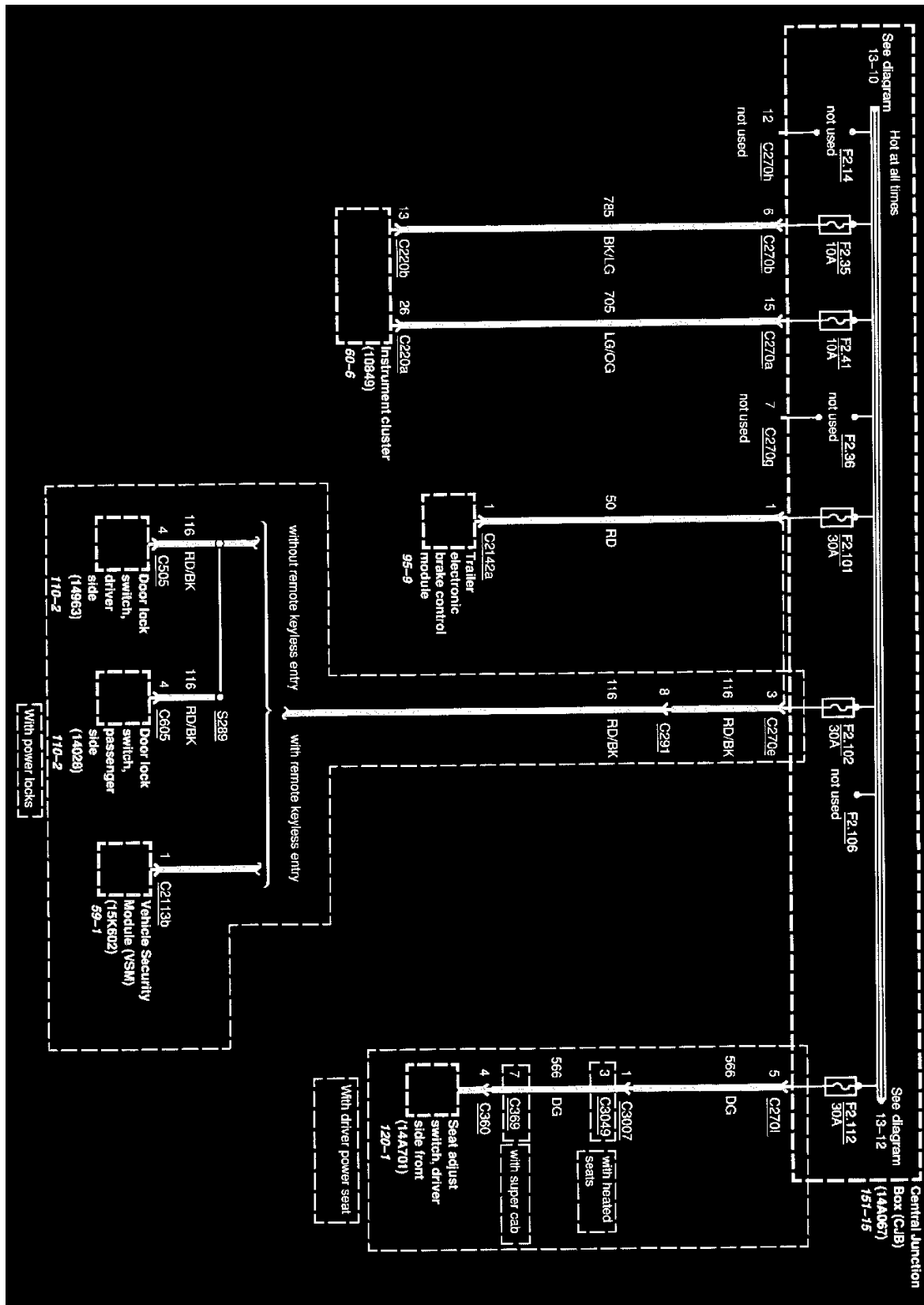




## F2.30



**F2.18, F2.34, F2.111**

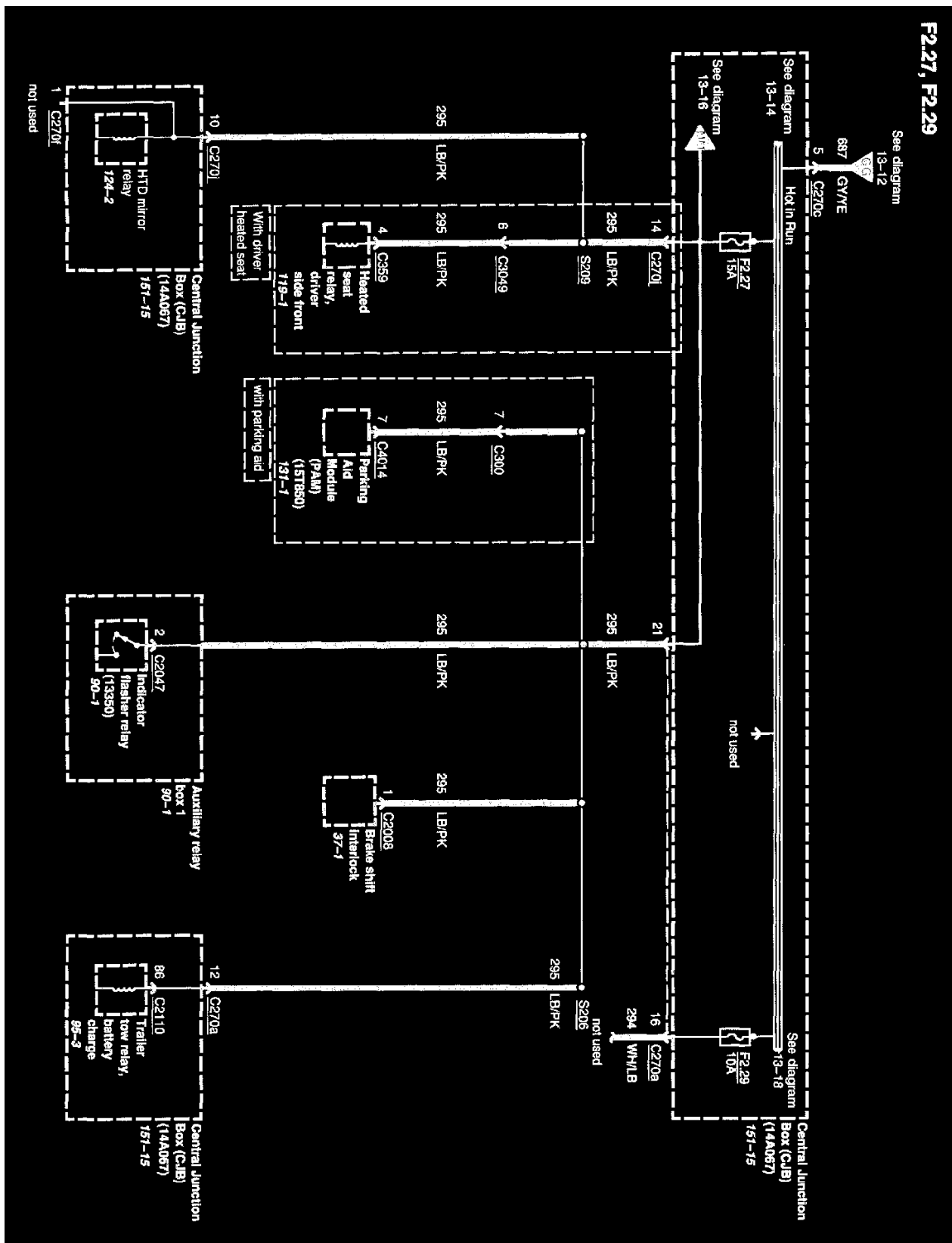
**F2.14, F2.35, F2.36, F2.41, F2.101, F2.102, F2.106, F2.112**


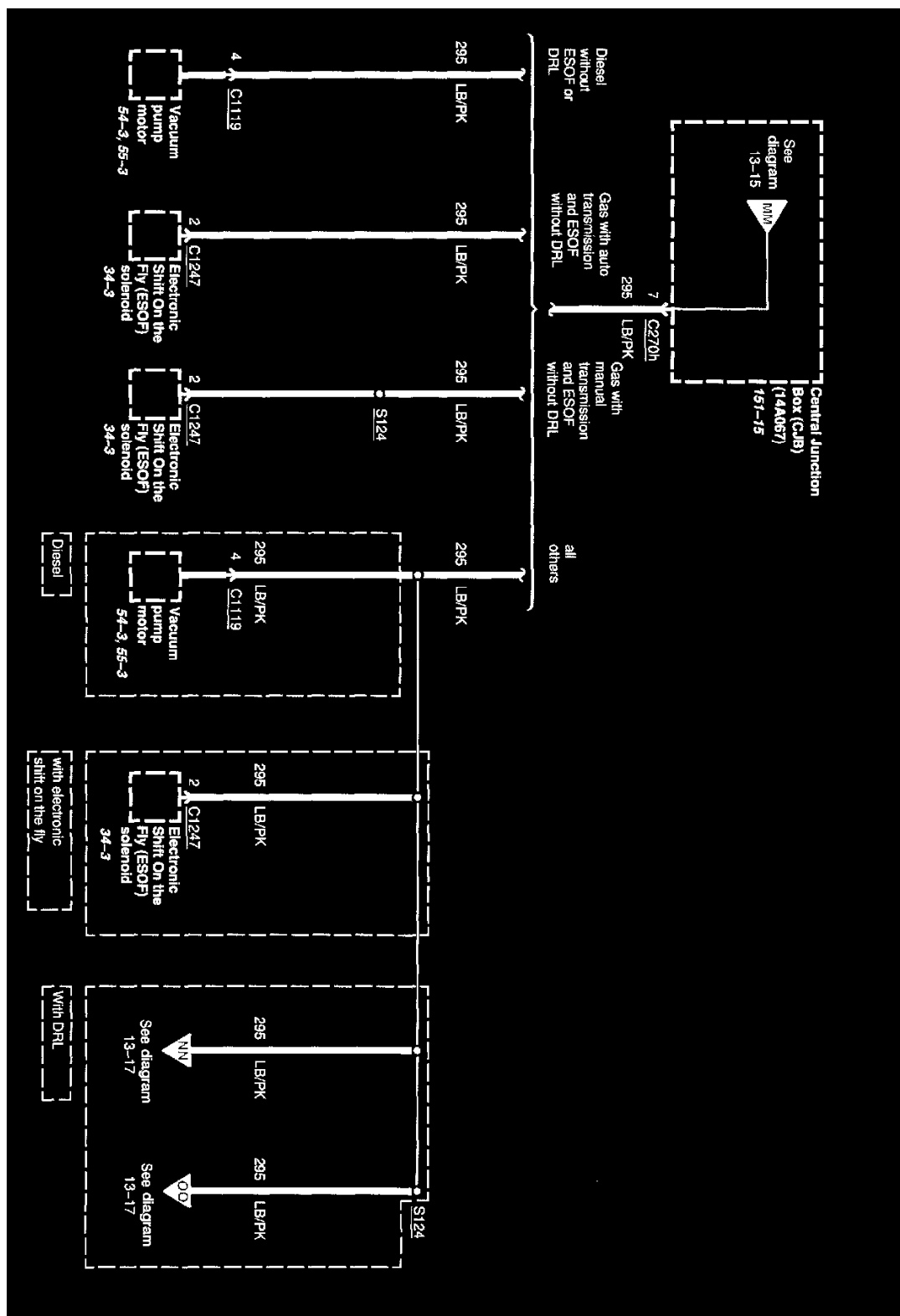
**13-12**

[illegible]

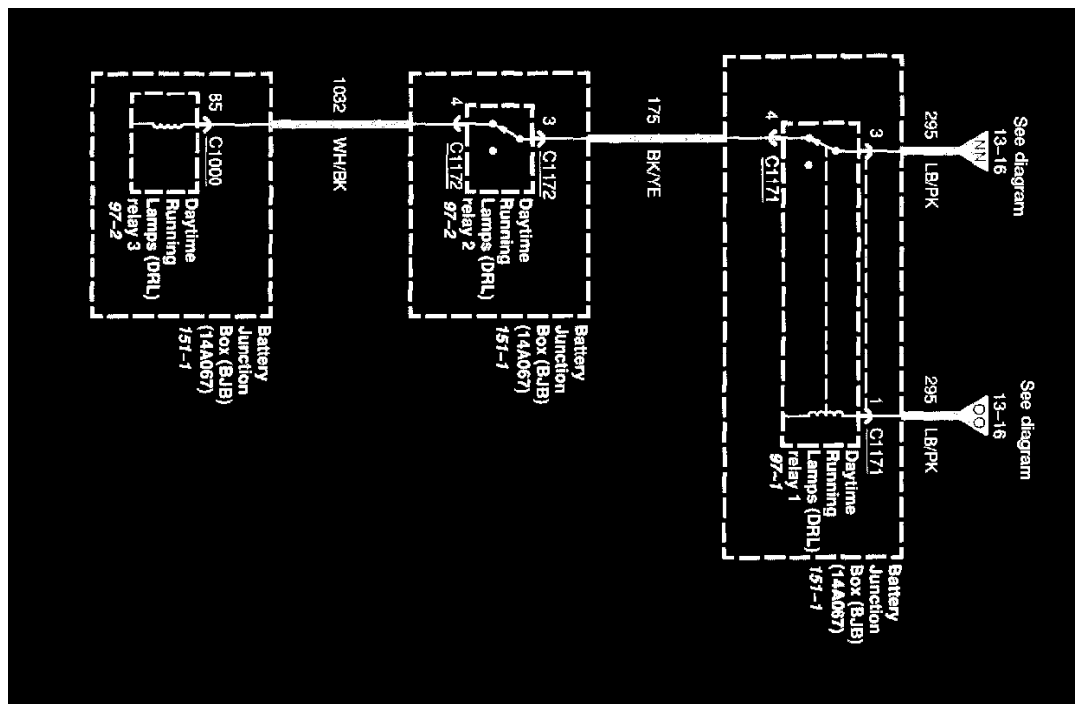


# F2.27, F2.29









13-17

[illegible]

**F2.43, F2.44, F2.45**

See diagram 13-12

16 RD1LG  
4 C270c  
Hot in Start or Run

86 C2160  
PCM power  
24-1, 25-1, 26-1  
J relay

8 640 RD/YE  
C270a  
F2.45  
10A

4 not used  
C270b  
F2.44  
F2.43  
10A  
Fog lamp relay  
86-2

Central Junction  
Box (CJB)  
(14A067)  
151-15

640 RD/YE  
S271  
640 RD/YE  
C284  
10  
640 RD/YE  
S901  
640 RD/YE  
C909  
2  
Compass sensor module  
60-5

640 RD/YE  
C911  
1  
Electrochromatic inside mirror unit  
(17700)  
125-3

5 C281a  
Four-wheel drive control module  
(14B465)  
34-1

13 C220a  
Instrument cluster  
(10849)  
60-1

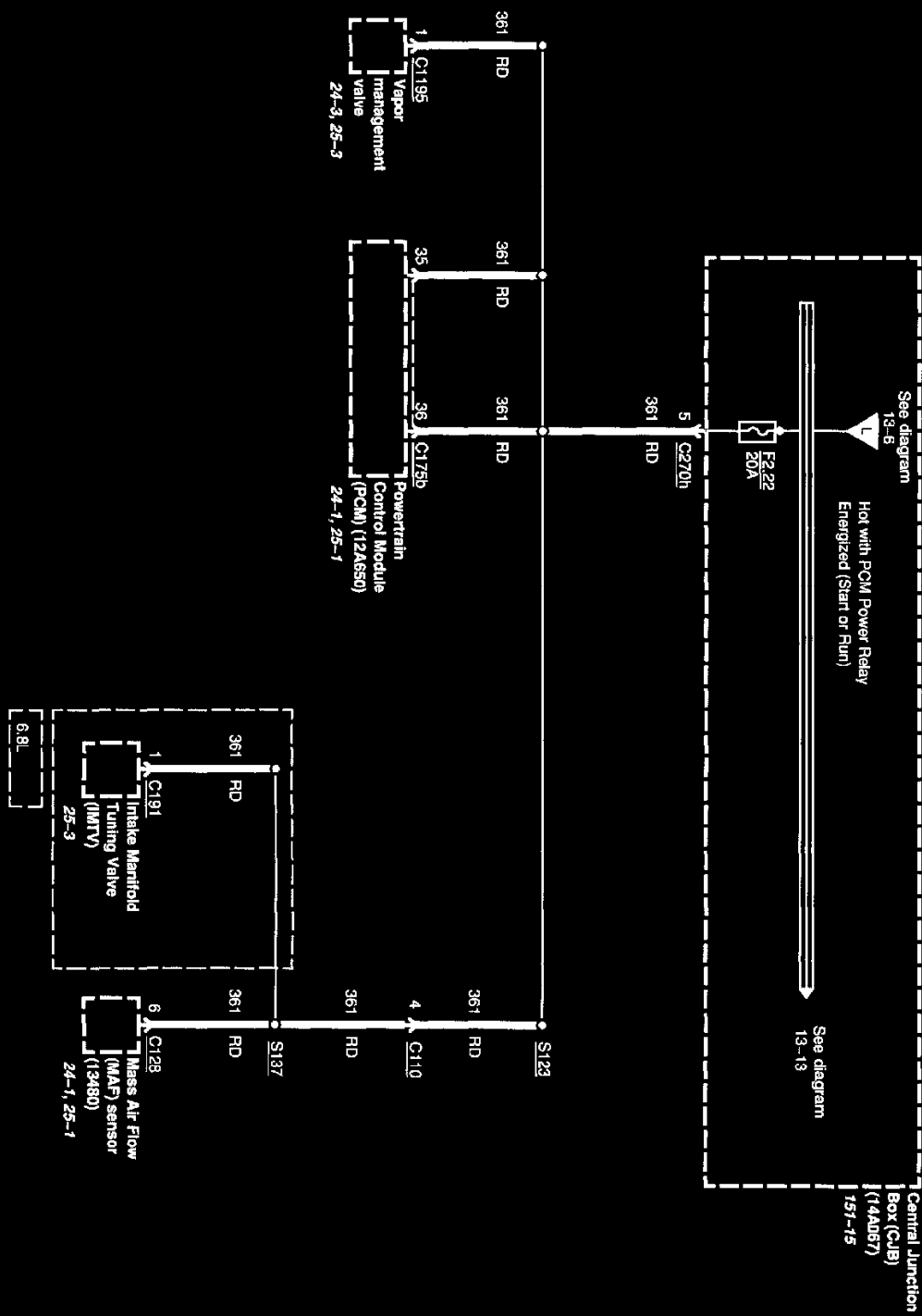
3 C257  
Clutch pedal position switch  
20-5

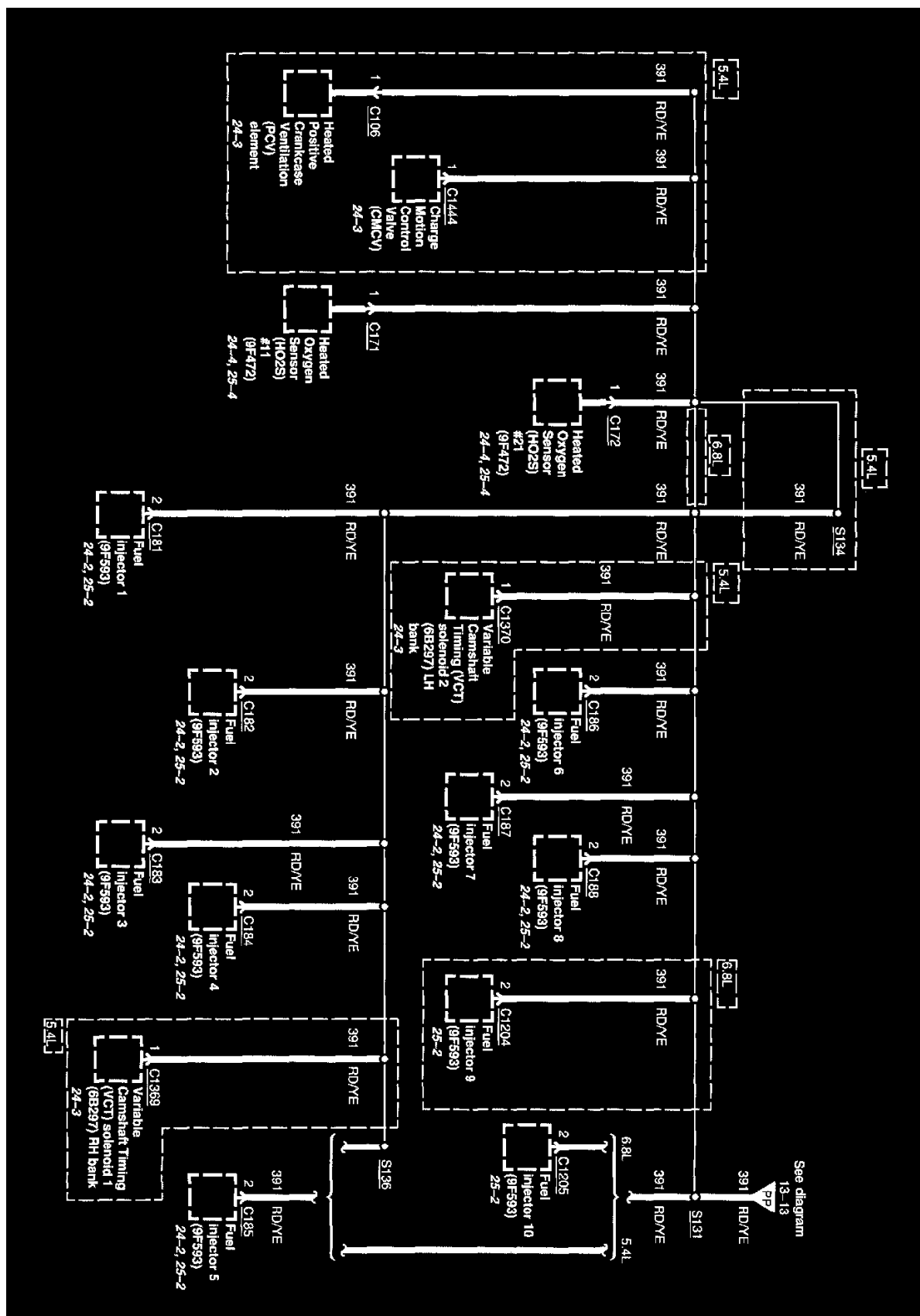
640 RD/YE  
C145  
23

[with manual transmission]

[with electronic shift on the fly]

[with compass and electrochromatic mirror]

**F2.22 with Gasoline**

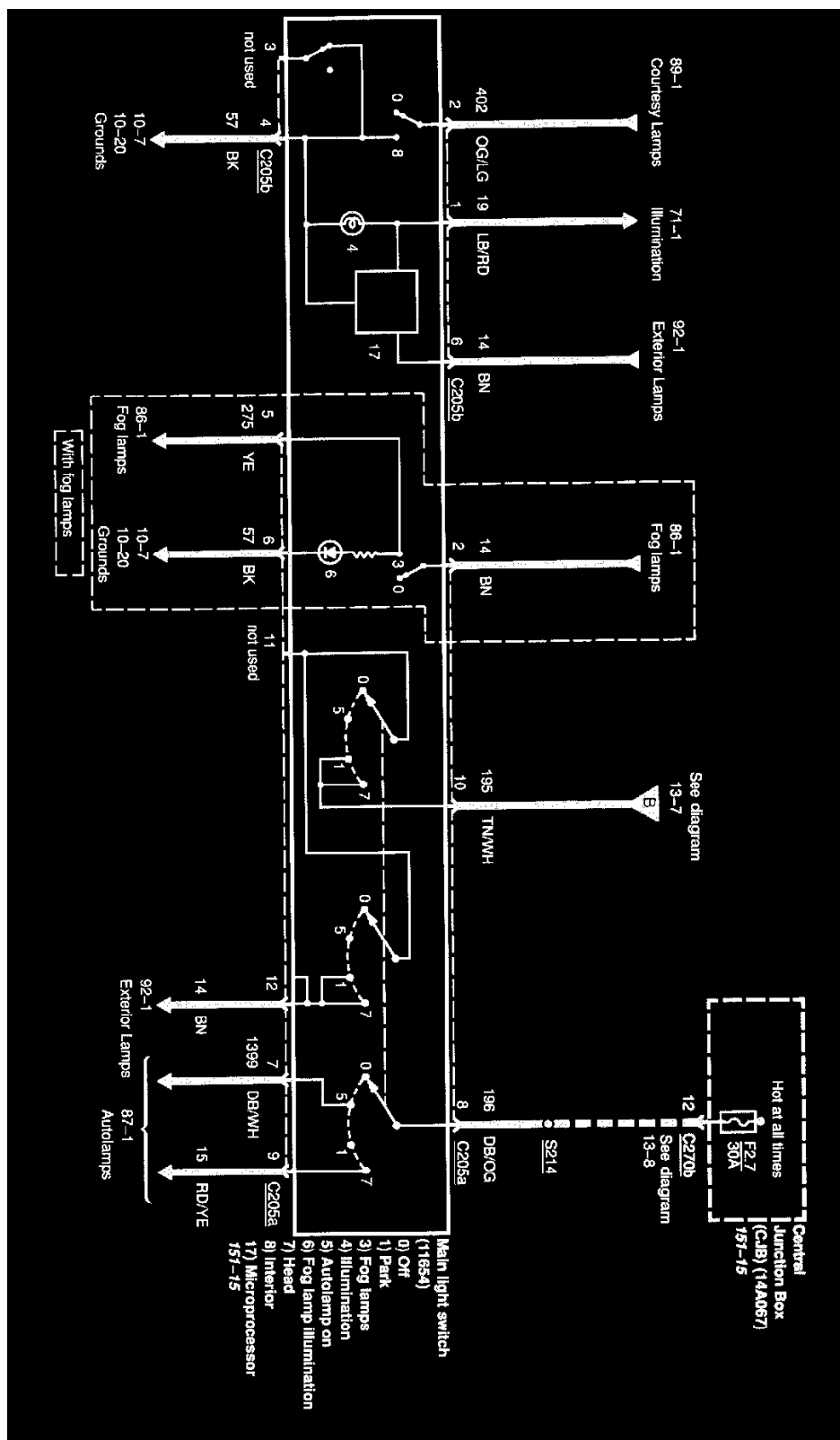


**F1.1, F1.3, F1.4, F1.6, F1.8, F1.10, F1.13, F1.14, F1.16, F1.19, F1.22, F1.23**

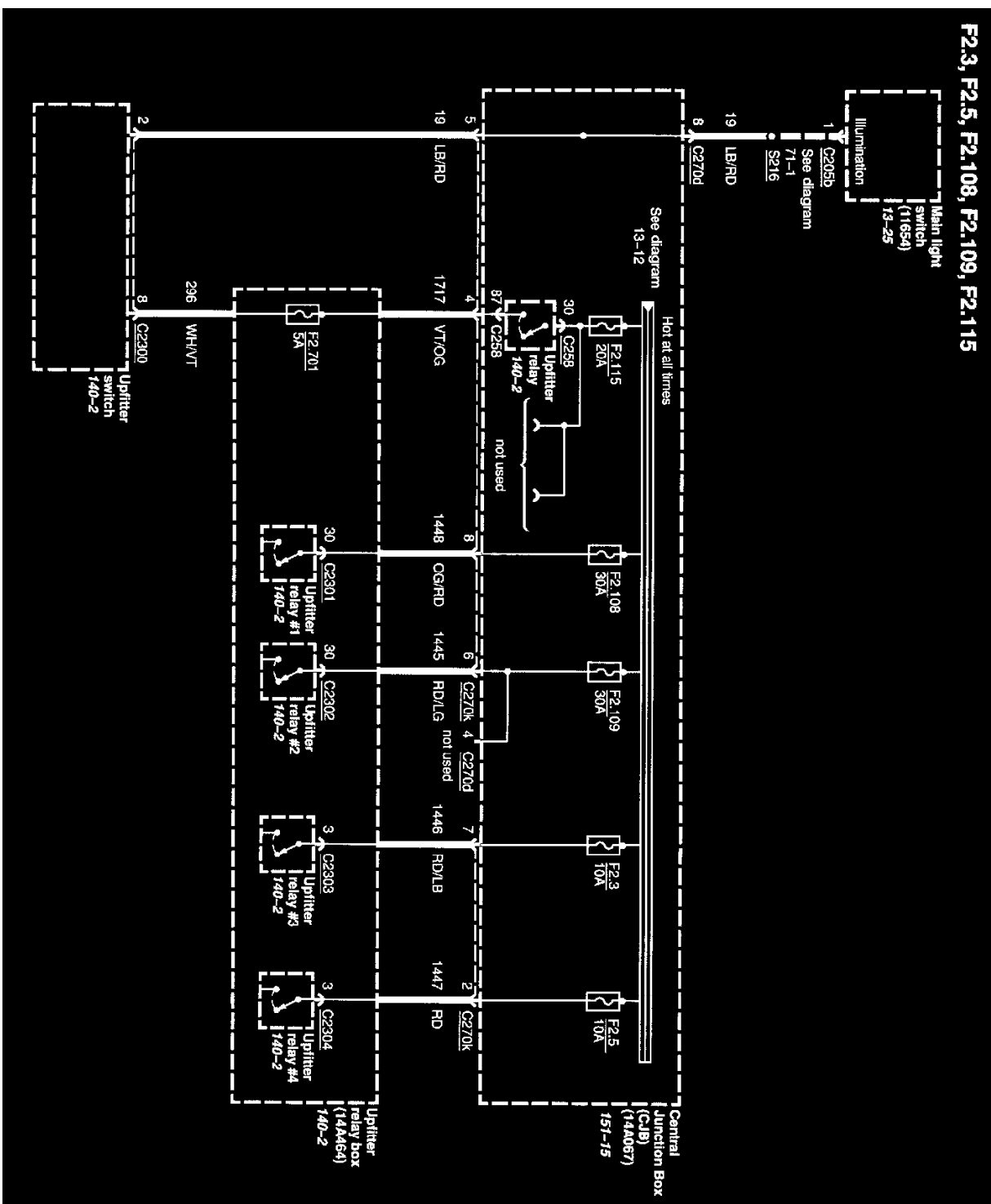
Hot at all times

See diagram 13-23

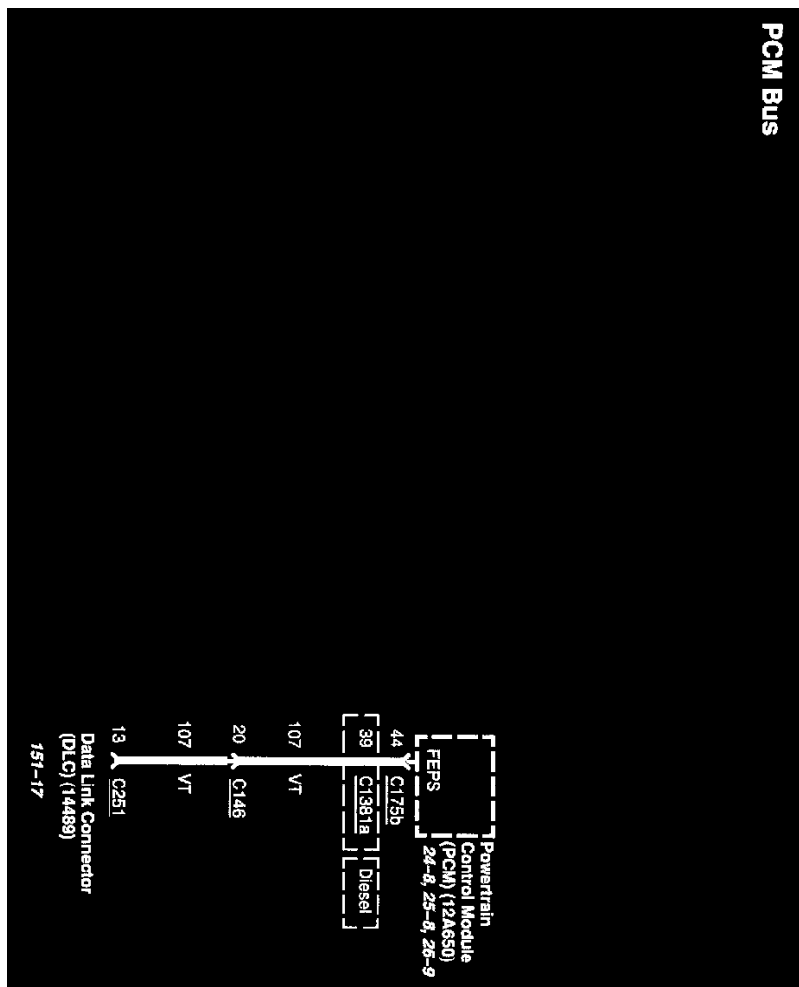




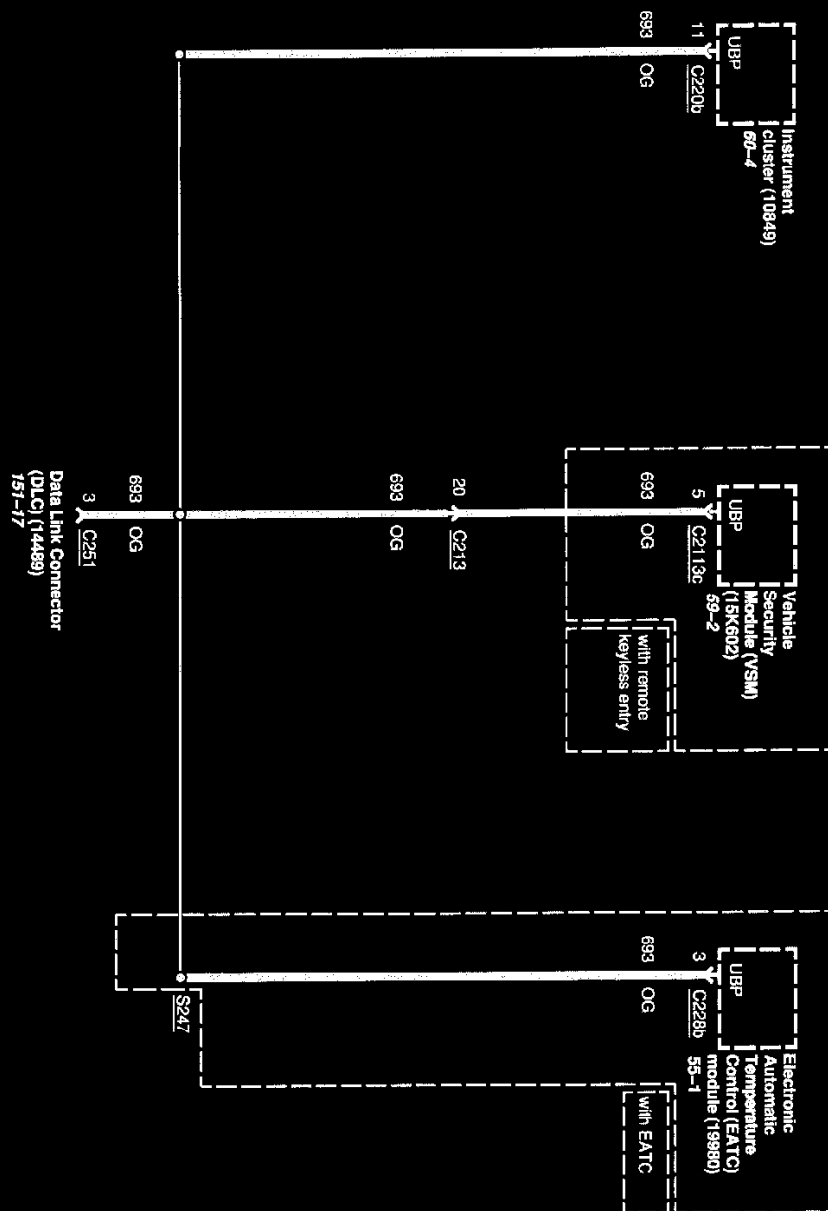


**F2.3, F2.5, F2.108, F2.109, F2.115**





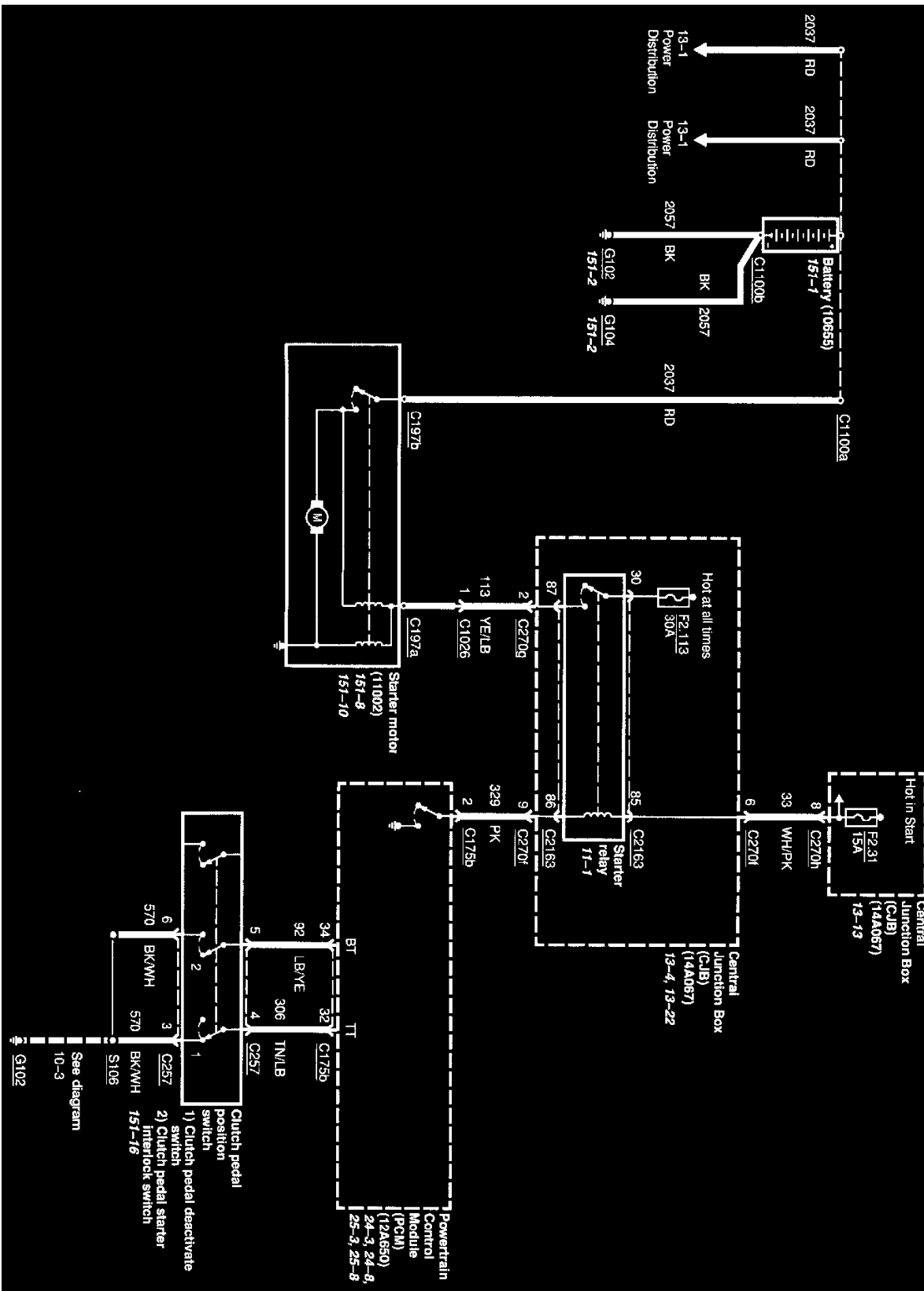
## UBP Bus



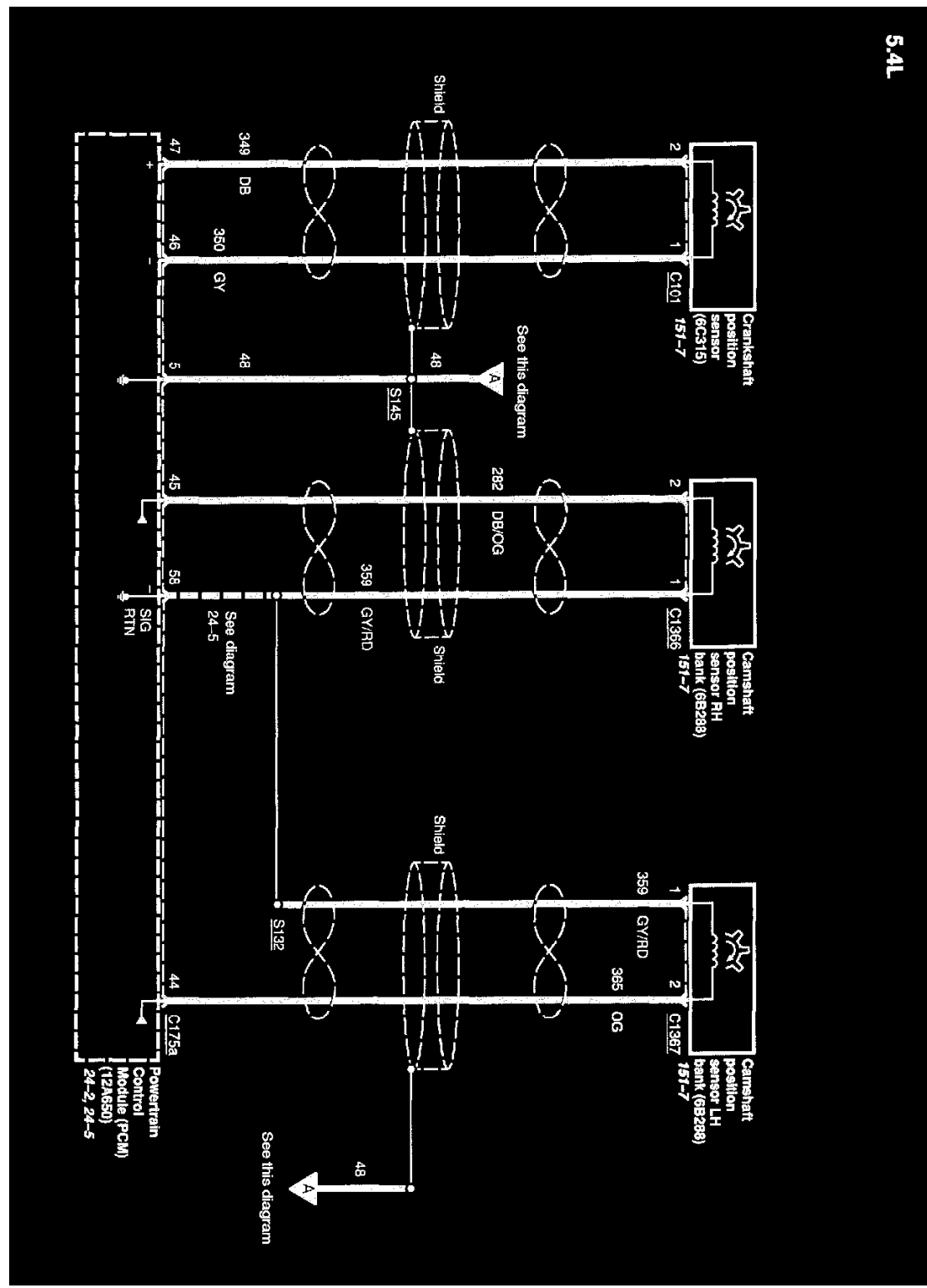
[illegible]

[illegible]

# Gasoline, Manual Transmission

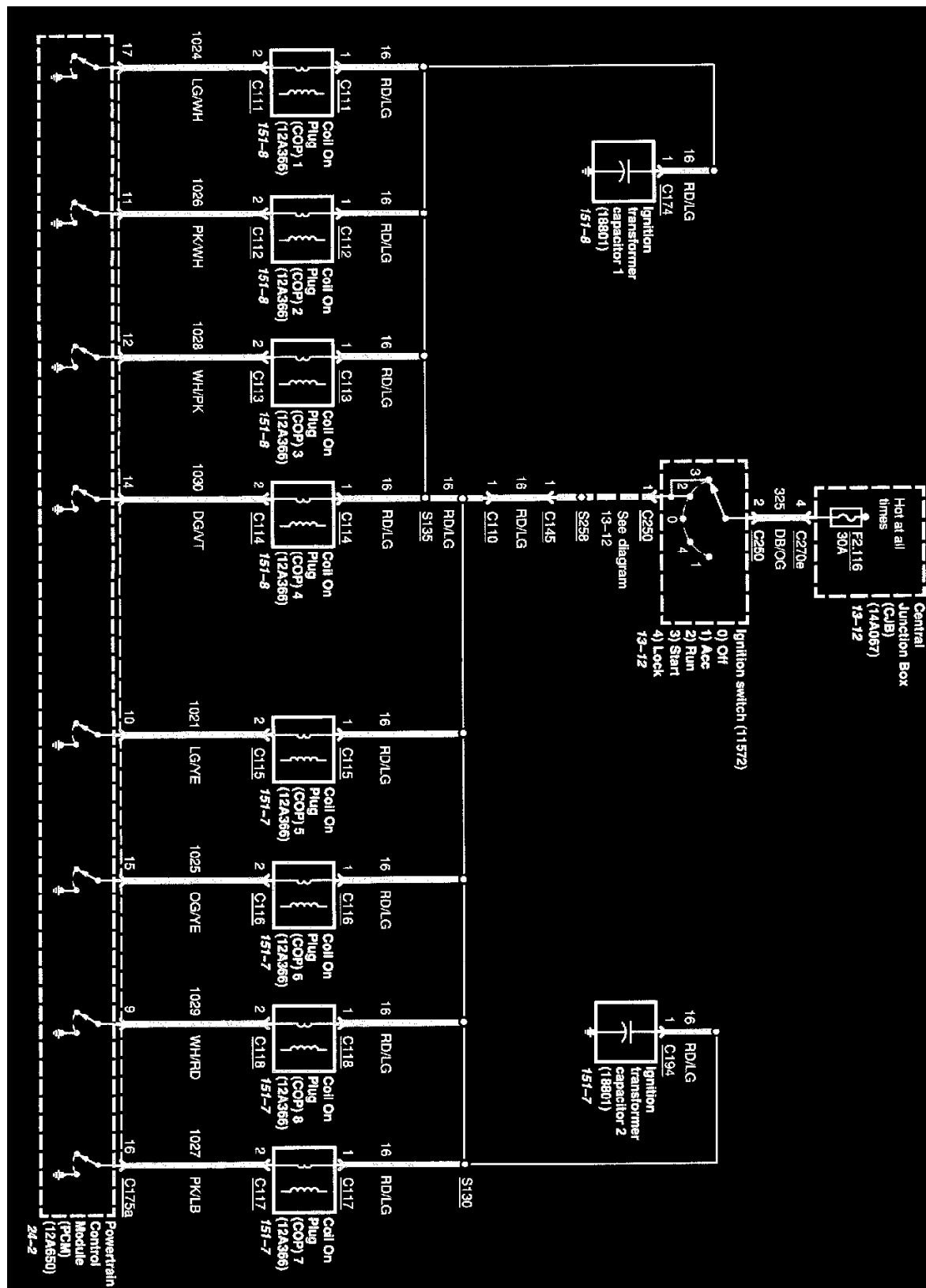


5.4L





## 5.4L



**See this diagram**

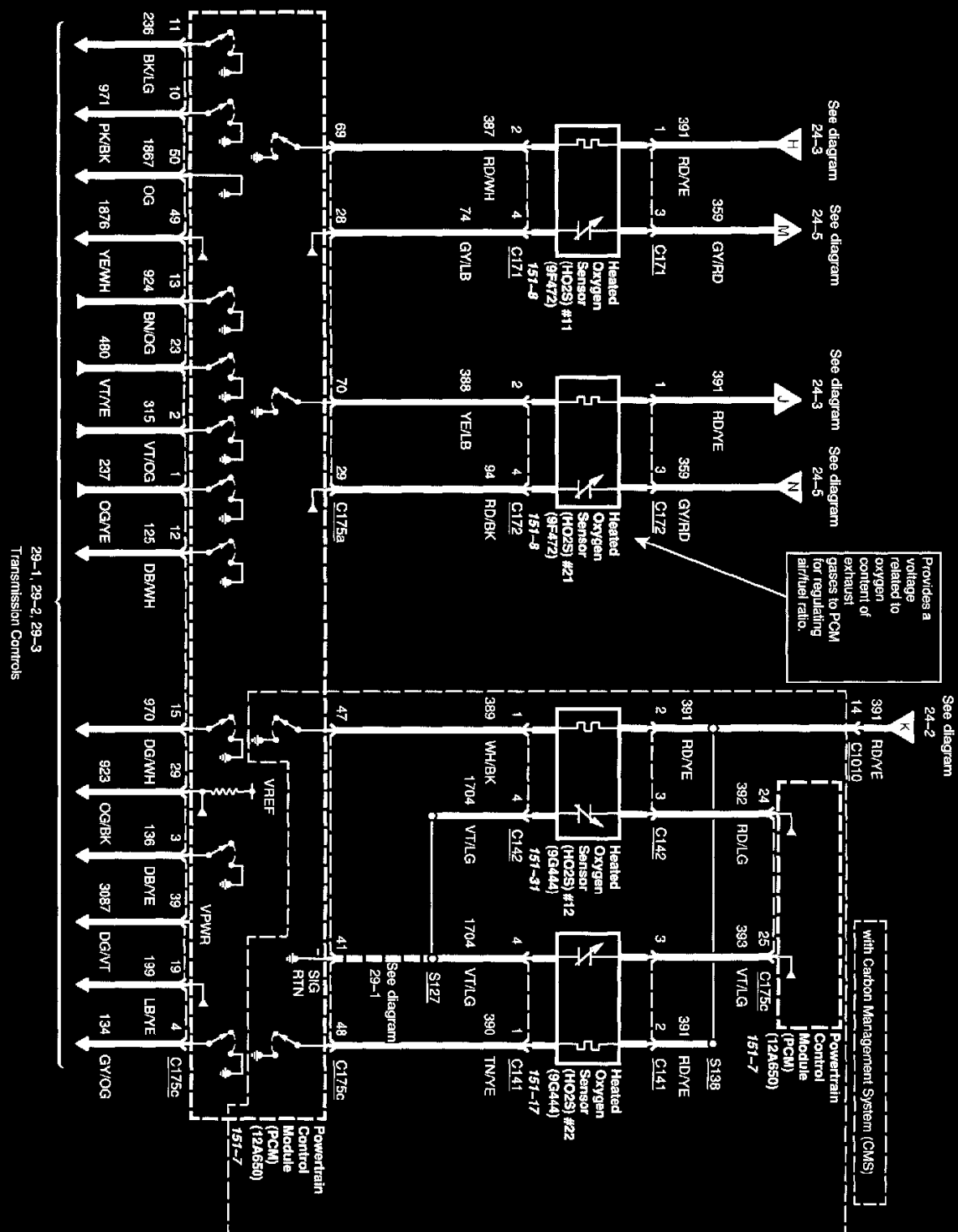


Solenoid actuated valve. As solenoid is energized (pulsed), fuel passes through injector into engine. The longer the pulse, the greater the fuel amount.



**24-3**

## 5.4L





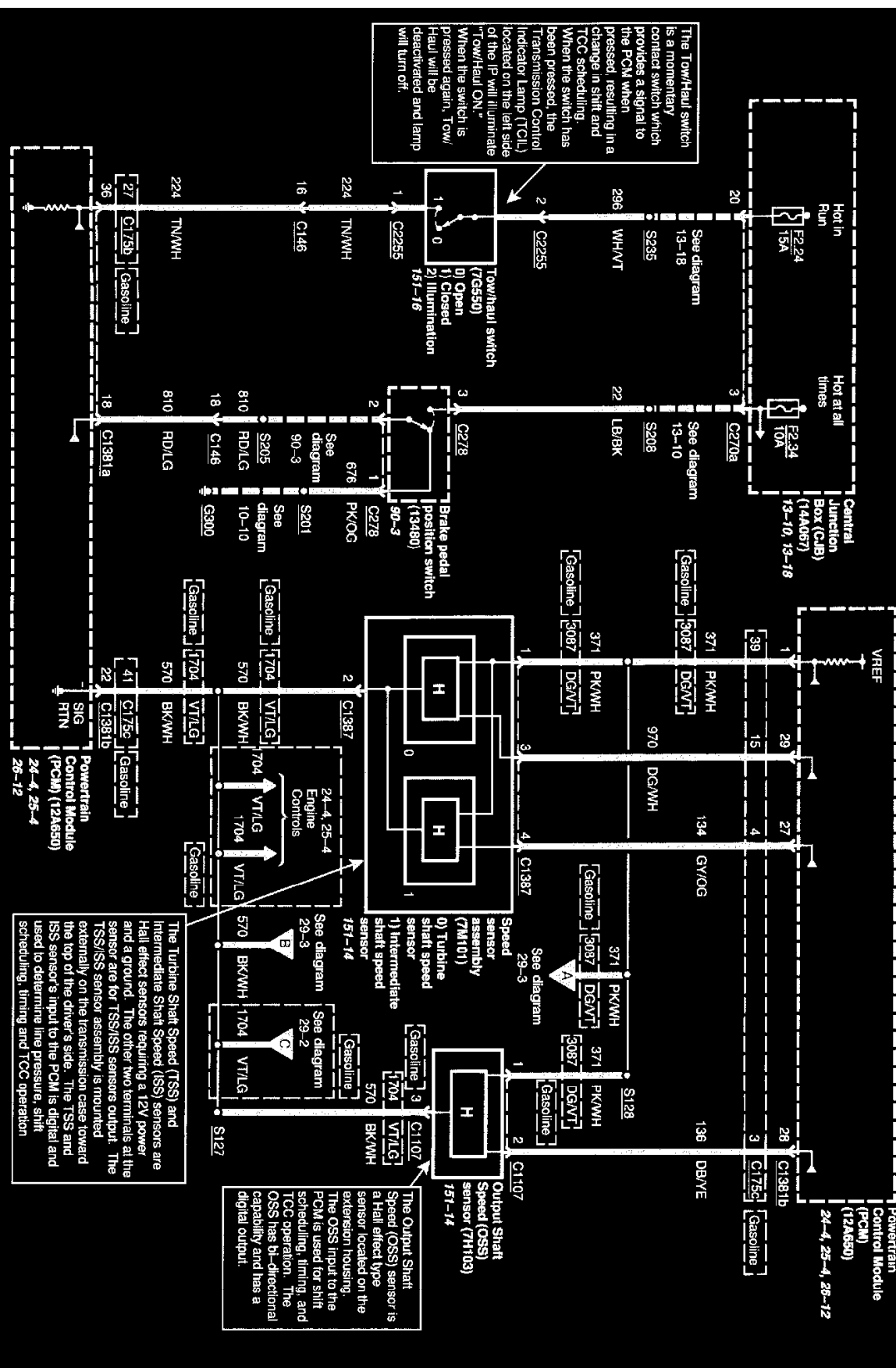
**24-6**

## 24-7

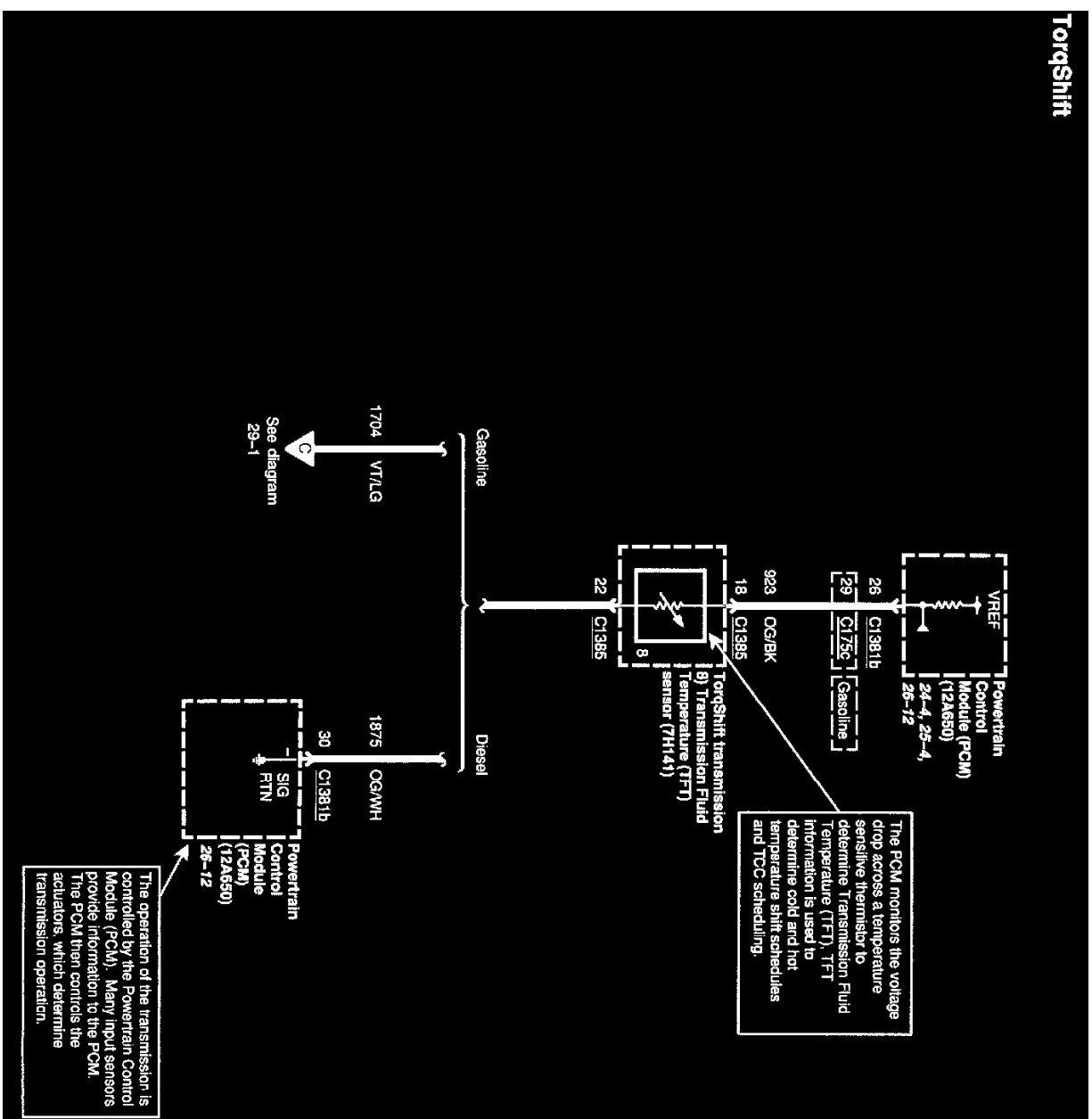


[illegible]

# TorqShift



## TorqShift



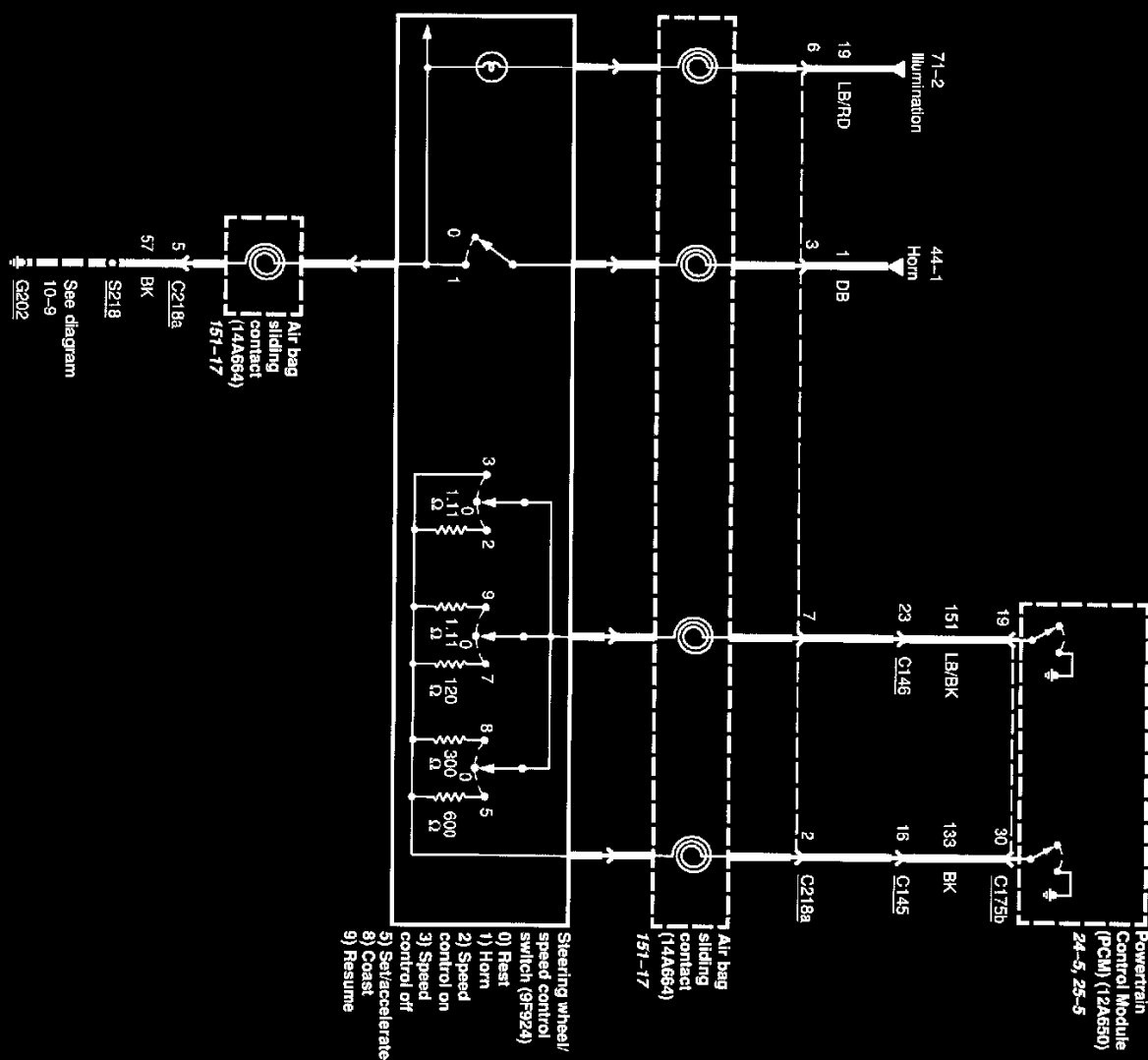


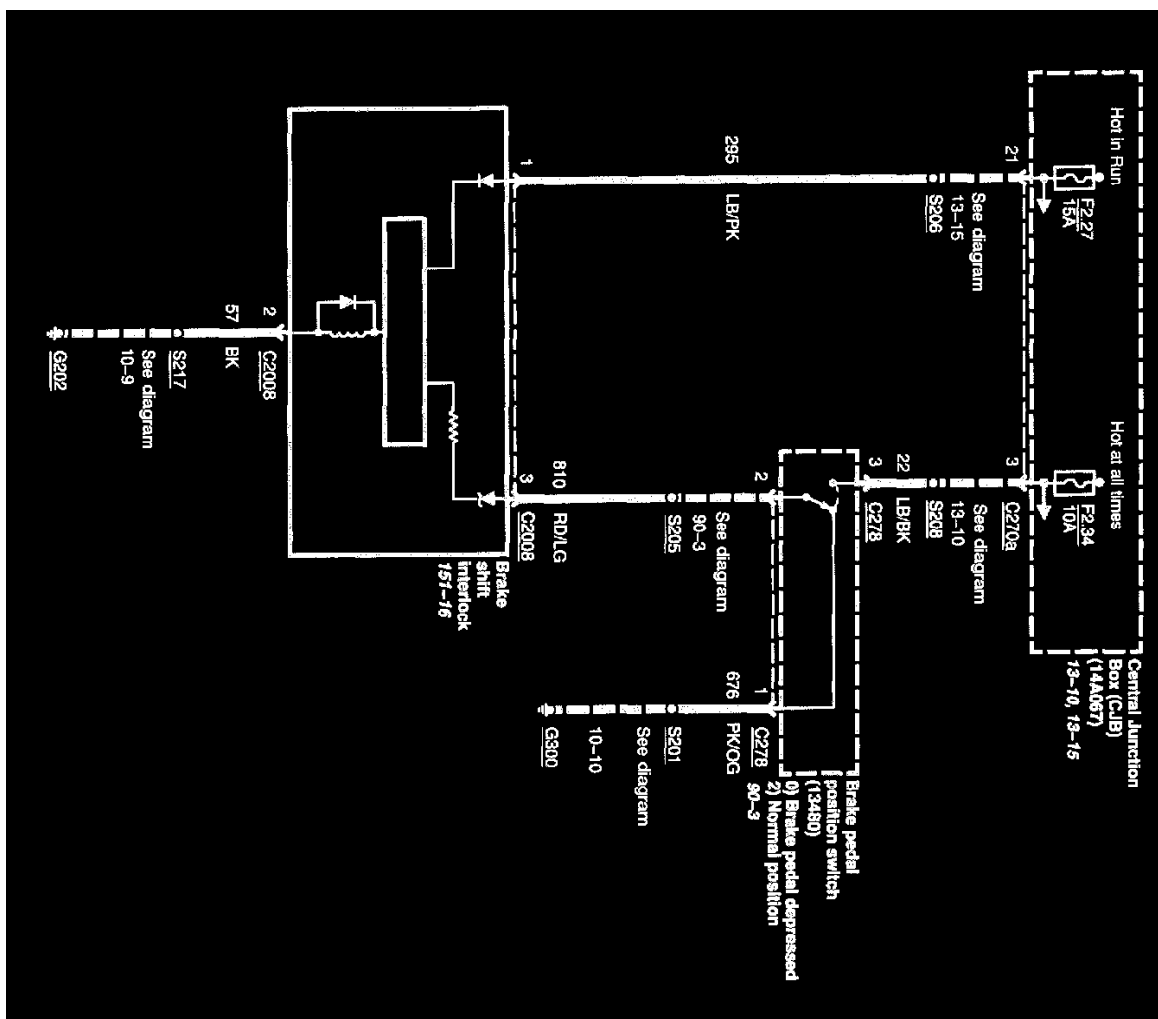
**Gasoline**

The diagram illustrates the electrical system for a gasoline engine. Key components and their connections include:

- Battery Junction Box:** Contains a 2A fuse (F1,12) connected to the "Hot in Run" line.
- Central Junction Box (CJB):** Contains a 10A fuse (F2,34) connected to the "Hot at all times" line.
- Brake Pressure Switch (151-1):** Connected to the battery junction box via a 418 DGYE wire and to the central junction box via a 22 LB/BK wire.
- PKOG (90-3):** Connected to the central junction box via a 676 PKOG wire and to the brake pedal position switch via a 676 PKOG wire.
- Brake Pedal Position Switch (13480):** Connected to the central junction box via a 676 PKOG wire and to the brake pressure switch via a 676 PKOG wire.
- Clutch Pedal Position Switch (20-4):** Connected to the central junction box via a 676 PKOG wire and to the brake pedal position switch via a 676 PKOG wire.
- Powertrain Control Module (PCM):** Connected to the central junction box via a 24-8, 25-8 wire.
- Other Components:** Includes a 307 BK/YE wire, a 3 C192 wire, a 65 C175a wire, a 34 BT wire, a 32 TT wire, a 92 LB/YE 306 TN/LB wire, a 4 C257 manual transmission wire, a 1908 WH S102 wire, a 1909 BK S146 wire, a 679 GY/BK S115 wire, a 21 C135 wire, and a 42-1 ABS control module (2C219) wire.

## Gasoline



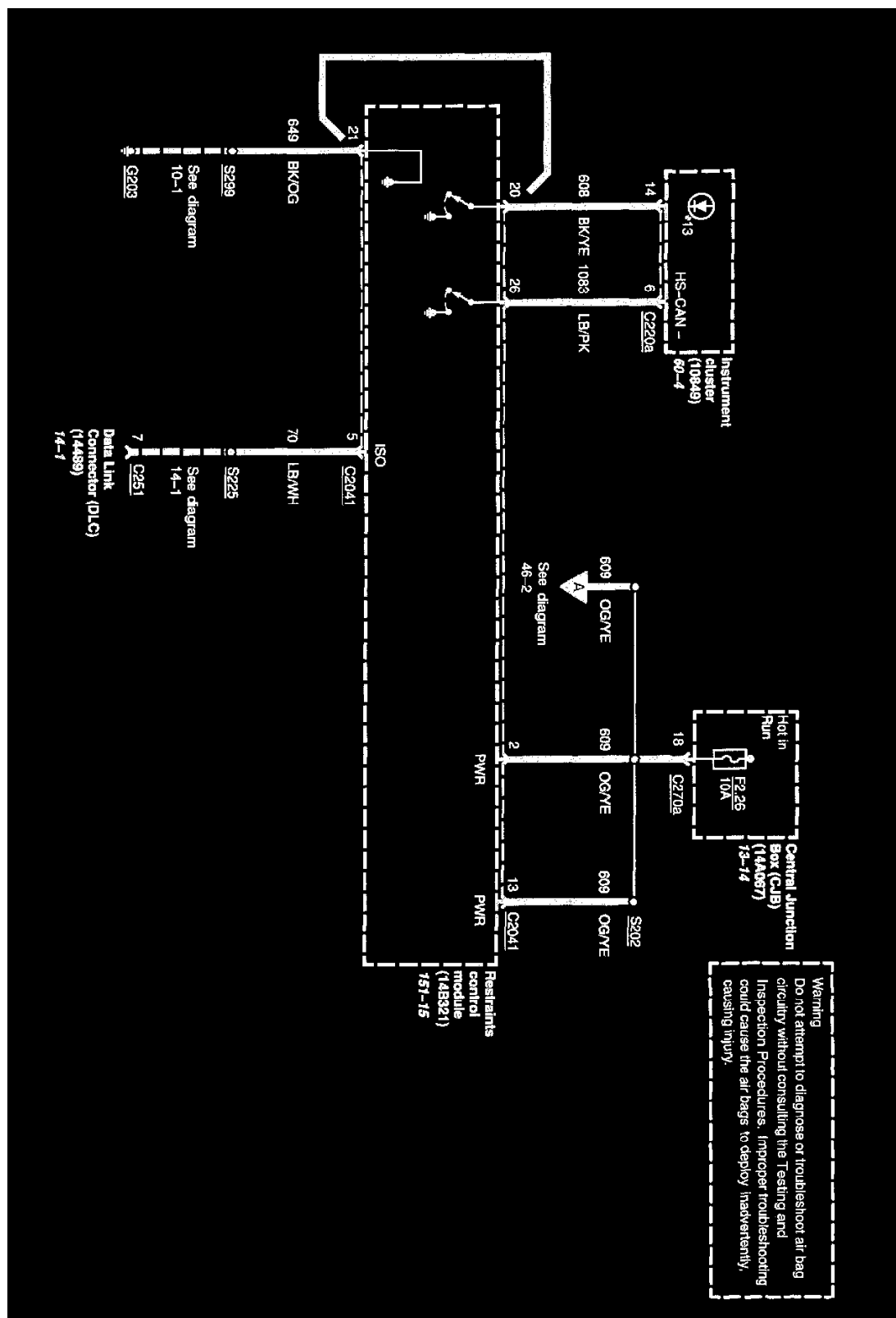


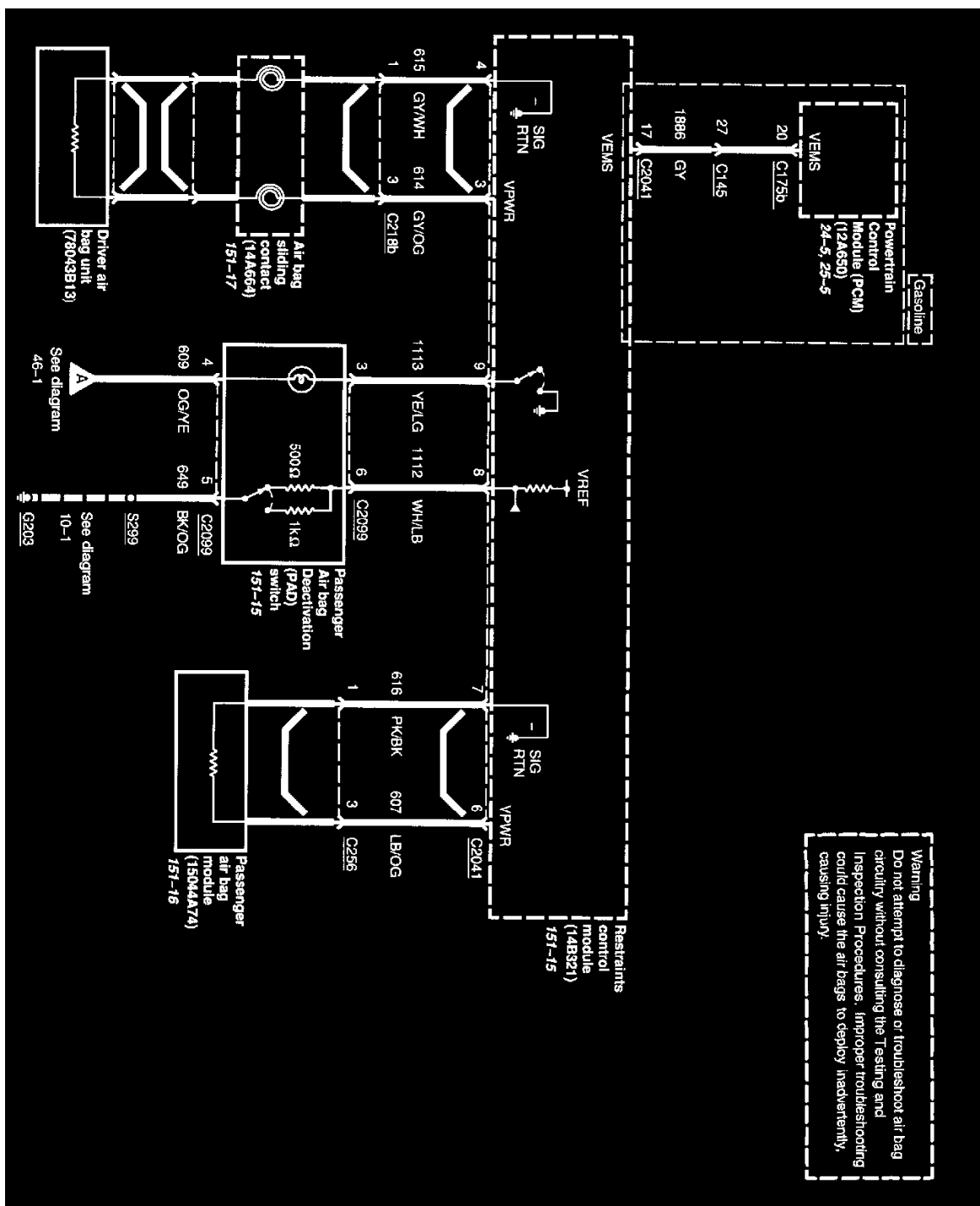














# Gasoline

See diagram  
S4-1

348 VT  
C1046

4 C1081

A/C compressor cycling switch (19E561)  
4) At or below 159kPa (23psi)  
5) At or above 290kPa (42psi)  
151-30

441 RD/YE

1 C1078

A/C high pressure switch (19D594)  
6) open at 3137 +/- 138kPa (455 +/- 20psi)  
7) closed at 1792 +/- 207kPa (250 +/- 30psi)  
151-7, 151-10, 151-12

7 6

439 TN/RD

8 C1046

2

4

Hot In Start or Run  
F2.23 30A  
C270h  
13-13

Central Junction Box (CJB) (14A067)  
13-13

See diagram  
13-13  
S122

391 RD/YE

Hot at all times  
F1.17 10A  
Battery Junction Box (BUB) (14A067)  
13-24

328 WH/VNT

Battery Junction Box (BUB) (14A003)  
13-13, 13-24

1 C1008  
A/C clutch relay 11-4

2

321 GY/WH

321 GY/WH

12 C270f

A/C Compressor clutch diode

Central Junction Box (CJB) (14A067)  
151-15

57 BK  
C270f  
See diagram  
10-2  
G100

S162

321 GY/WH

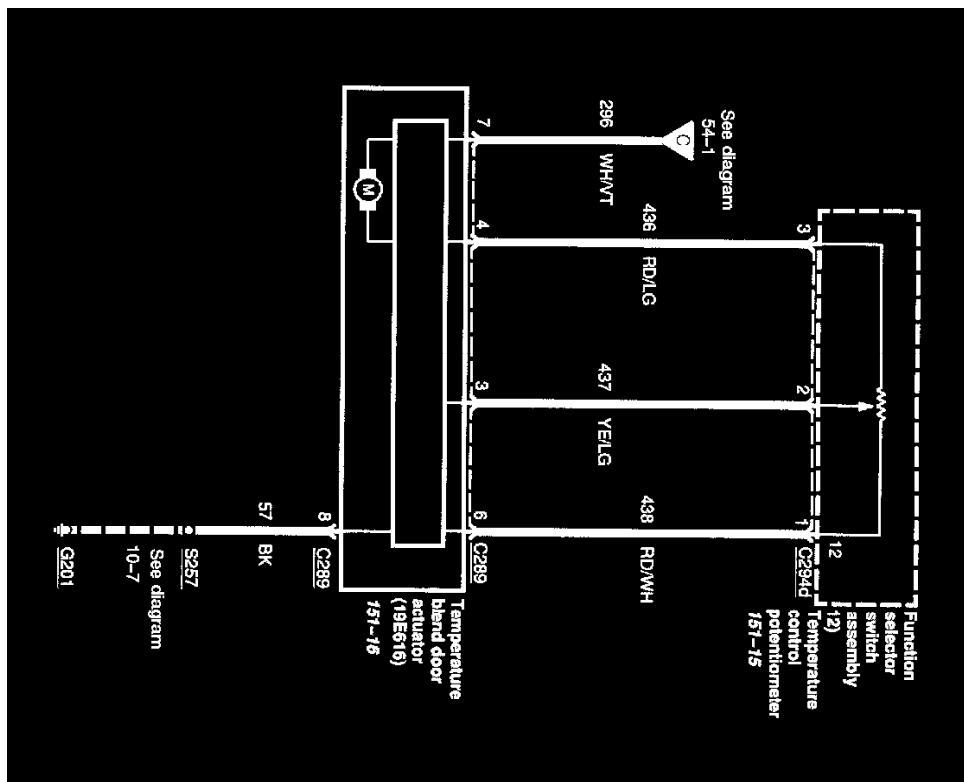
2 C1046

1 C100

A/C clutch field coil (19D796)  
151-7

57 BK  
C1046  
See diagram  
10-6  
G108

S180

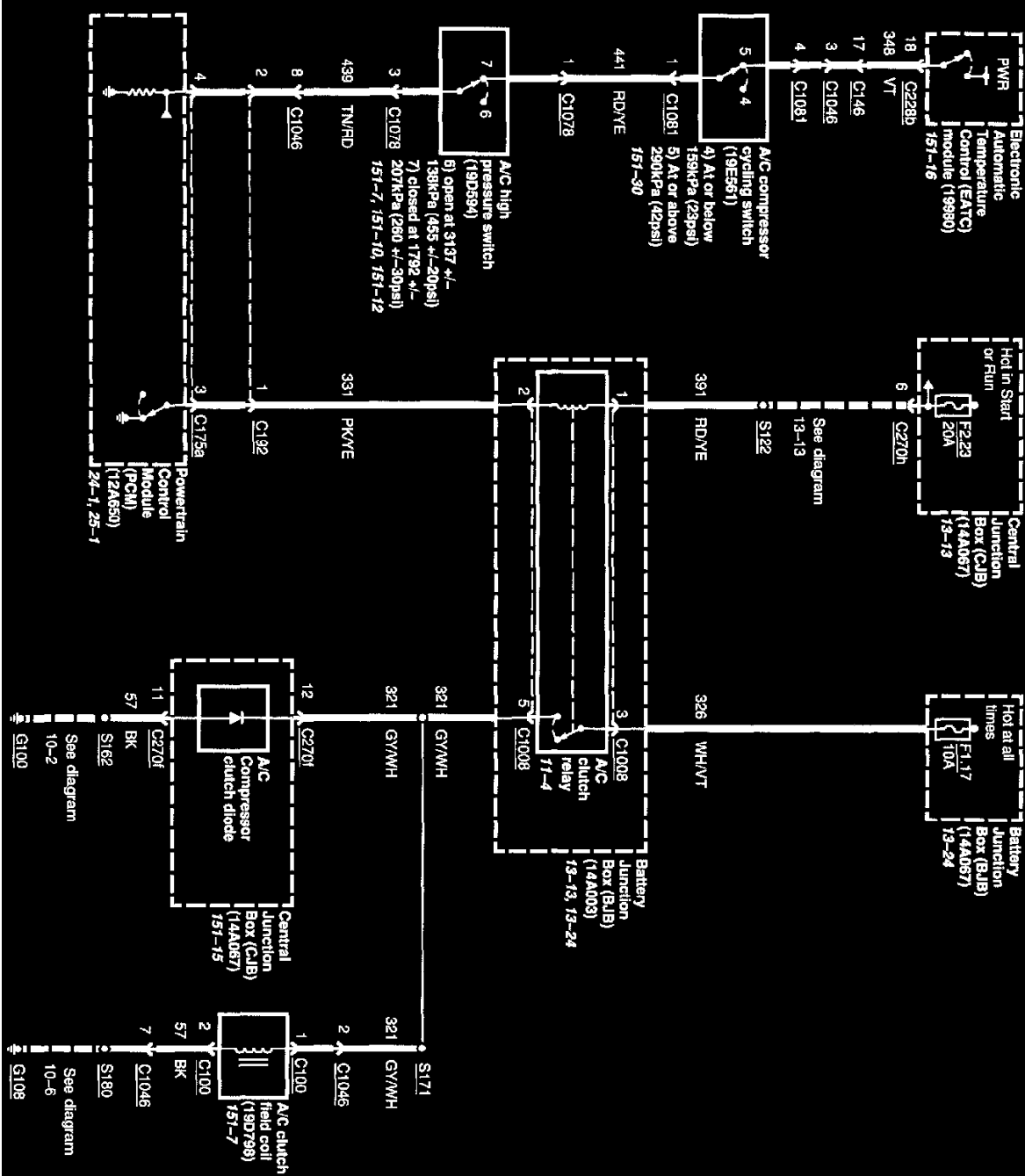


54-4

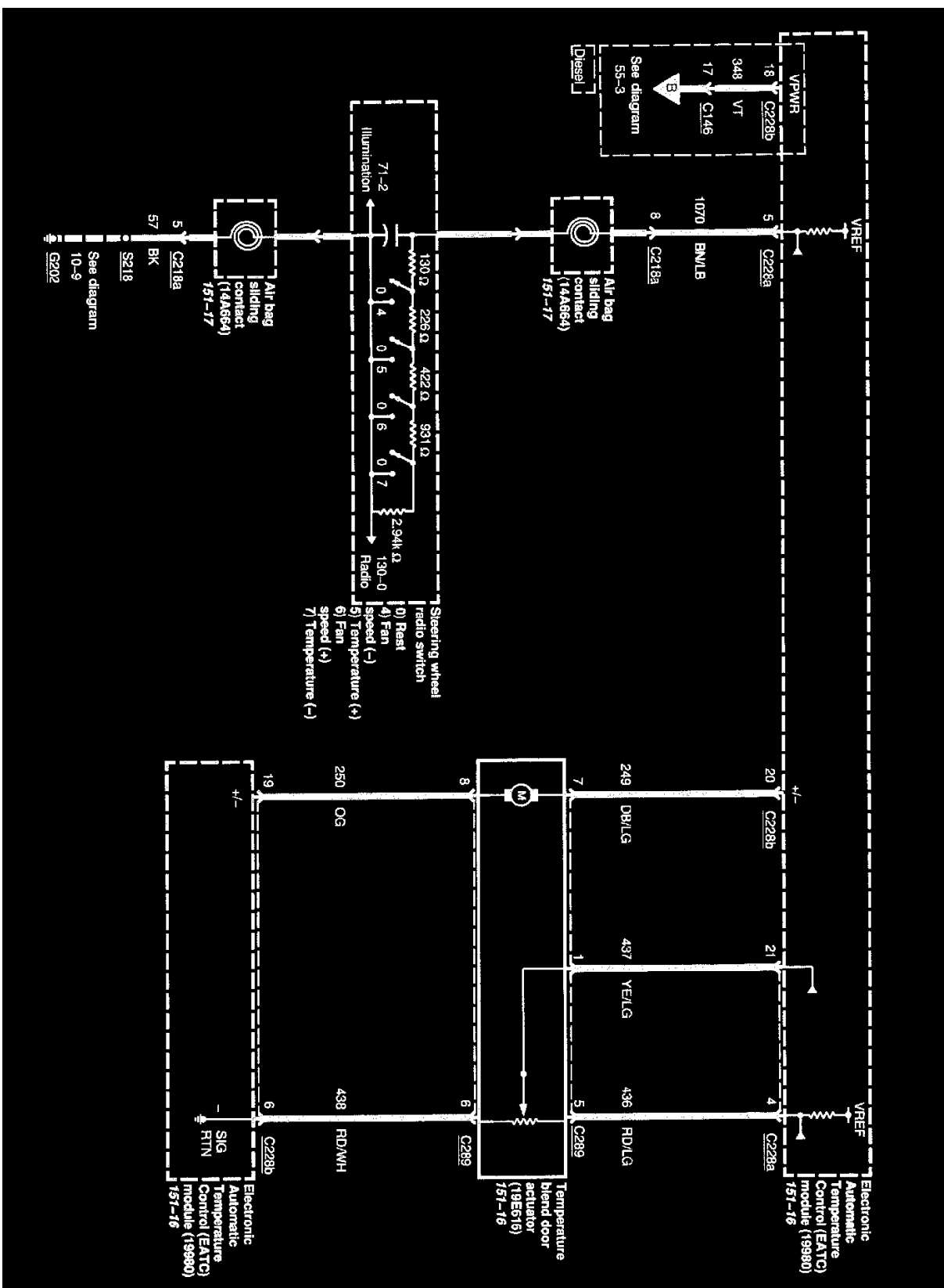




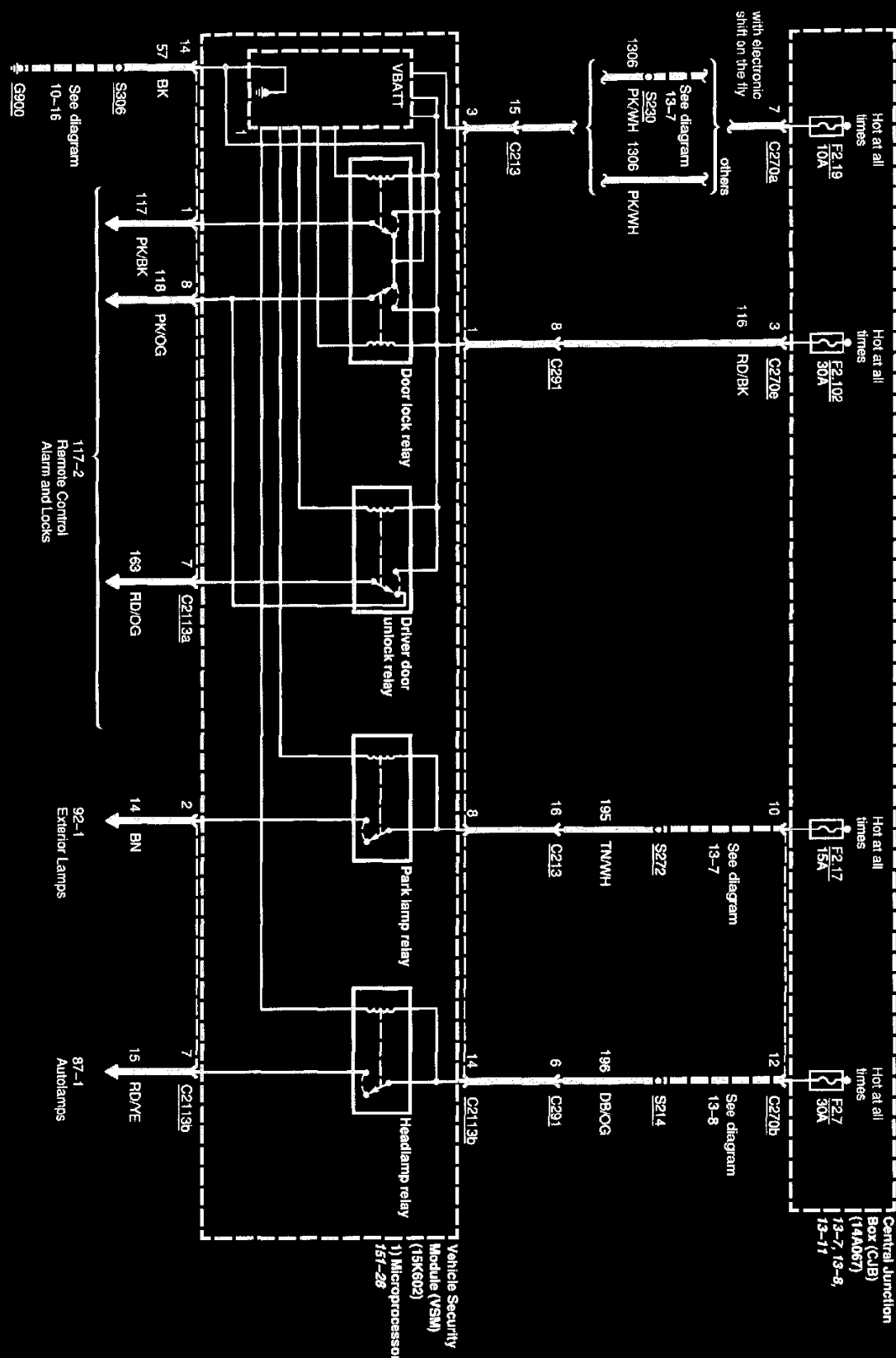
## Gasoline



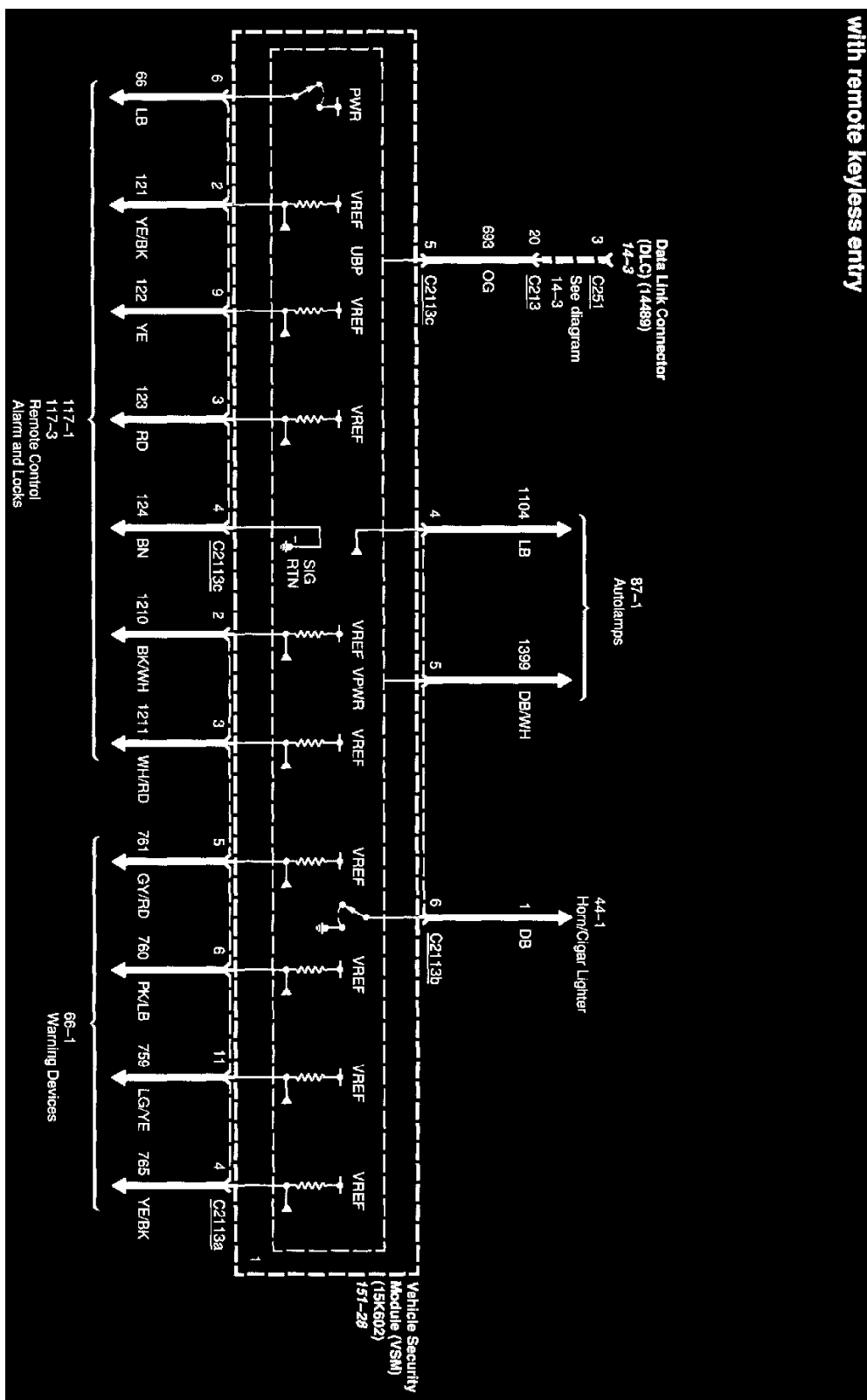




## with remote keyless entry

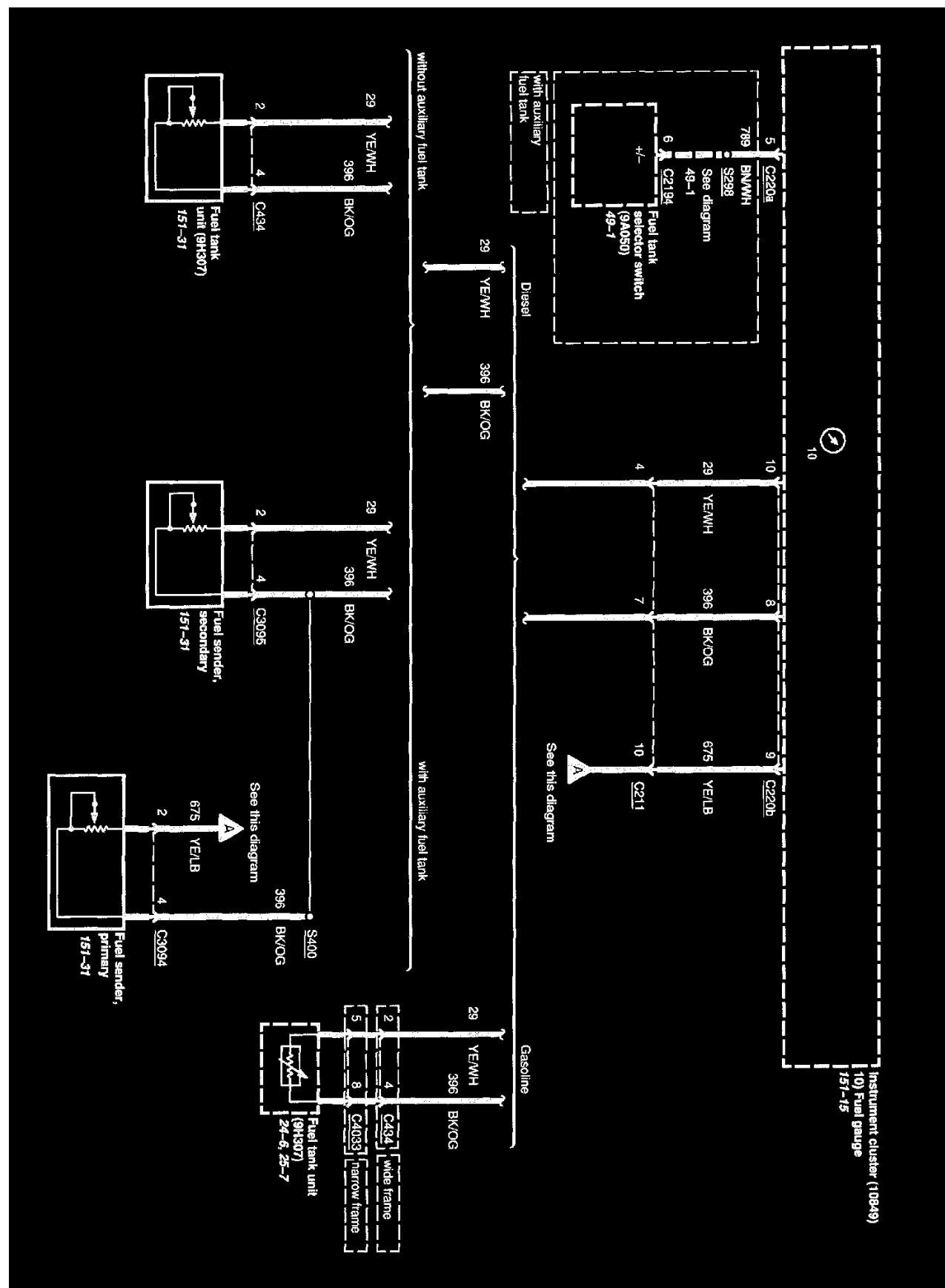


## with remote keyless entry

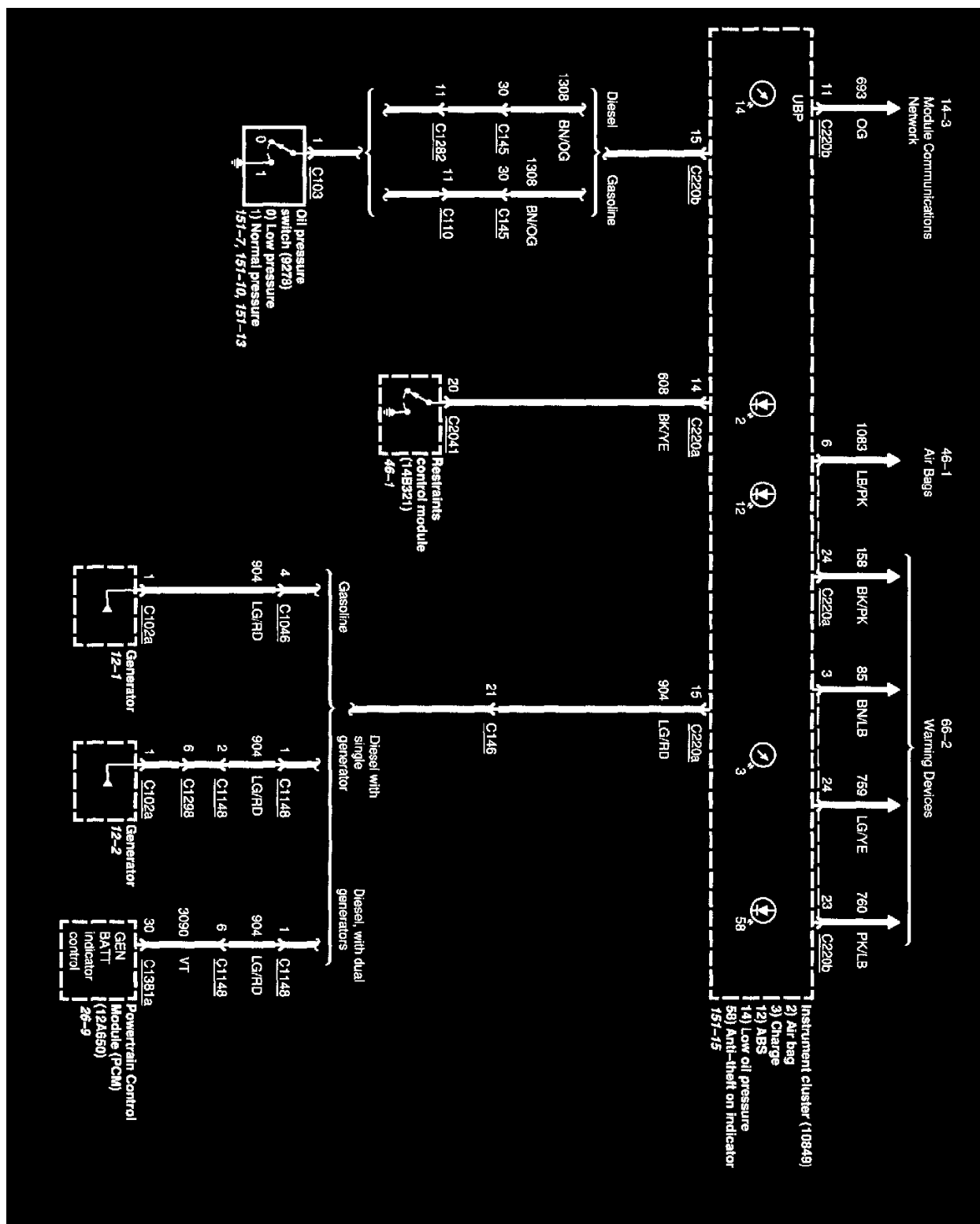




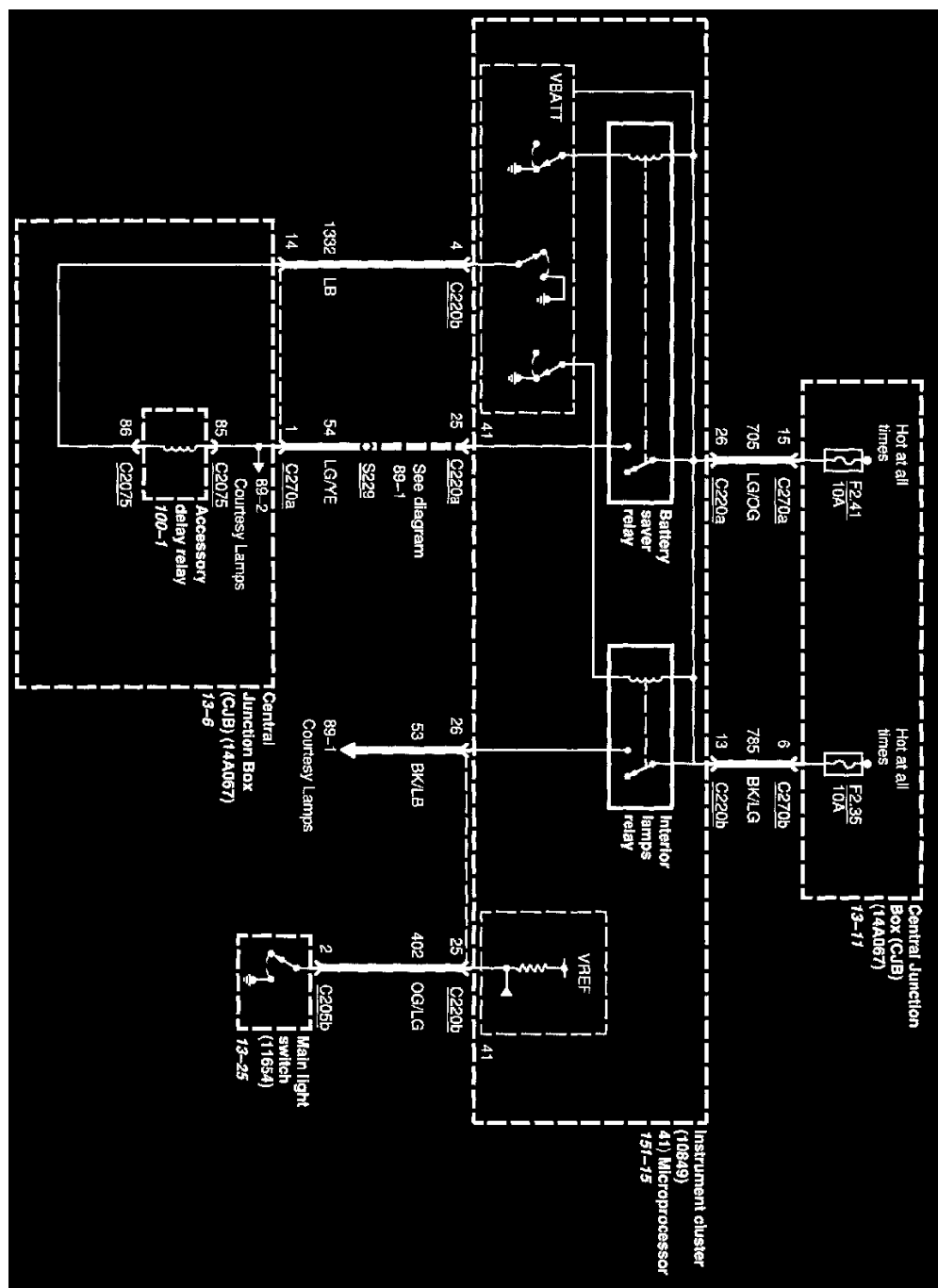


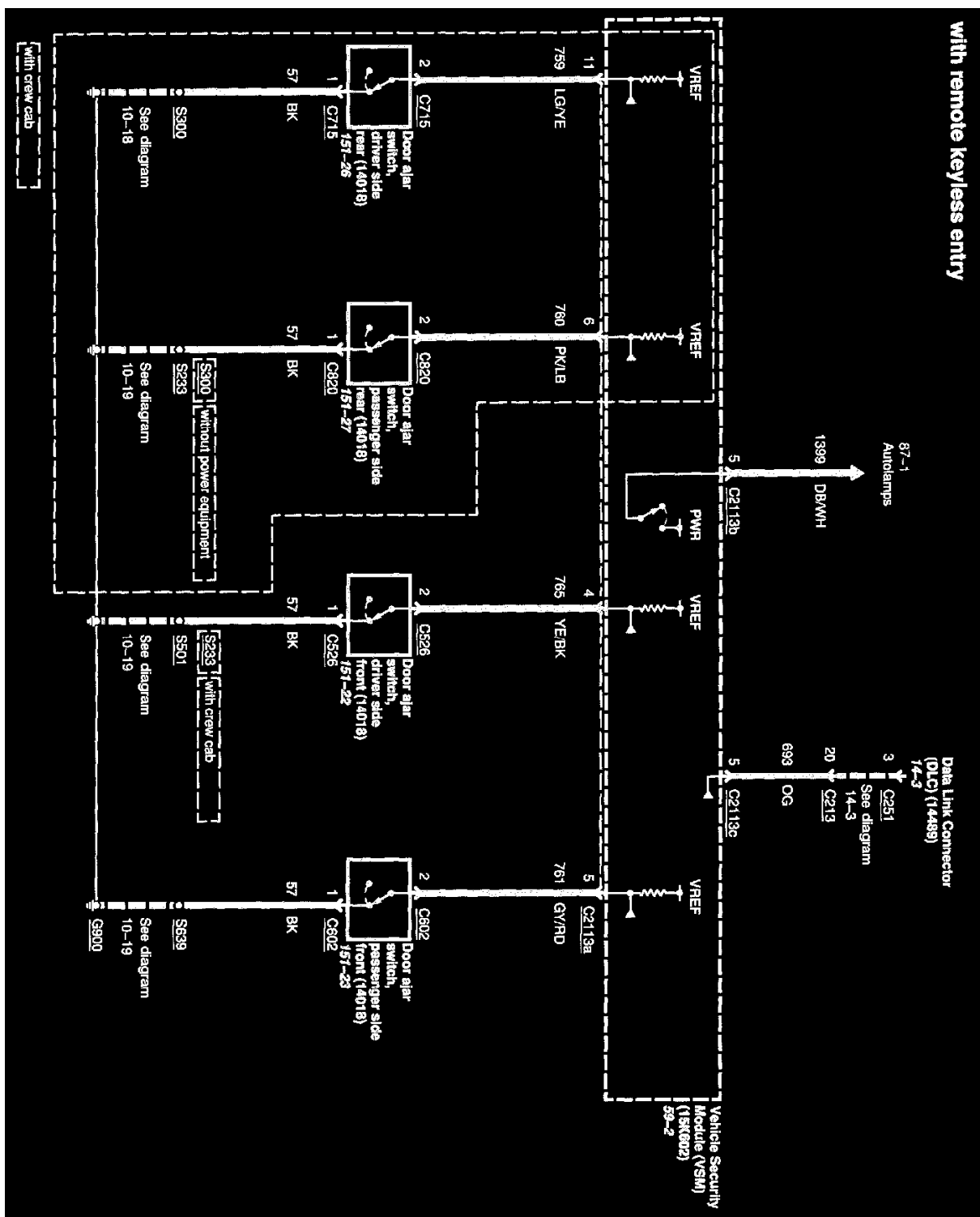




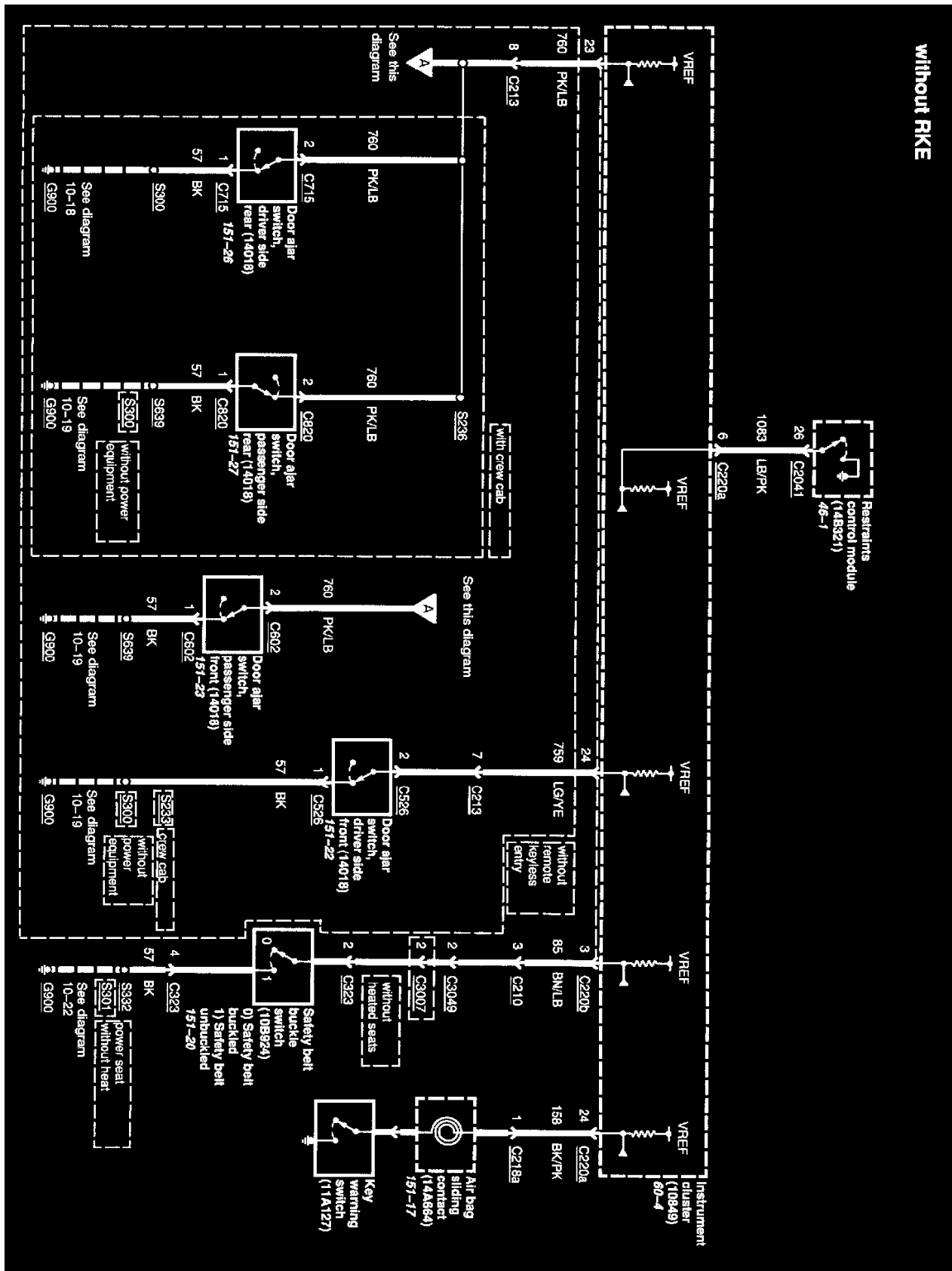




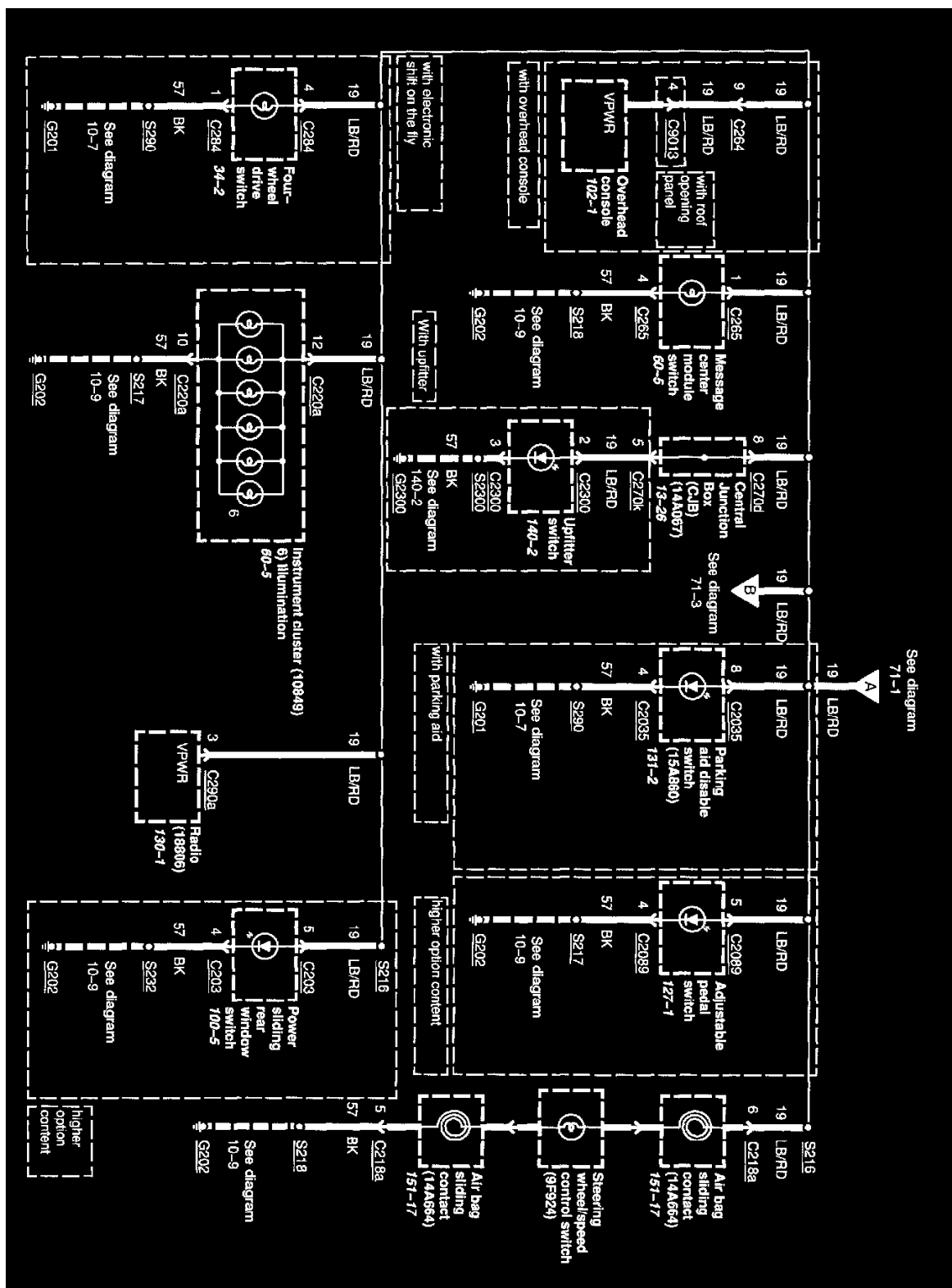


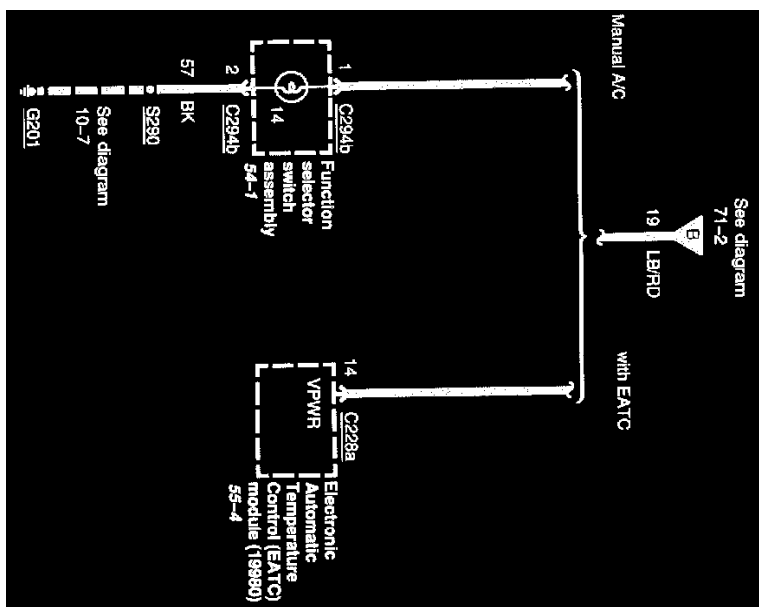


# without RKE









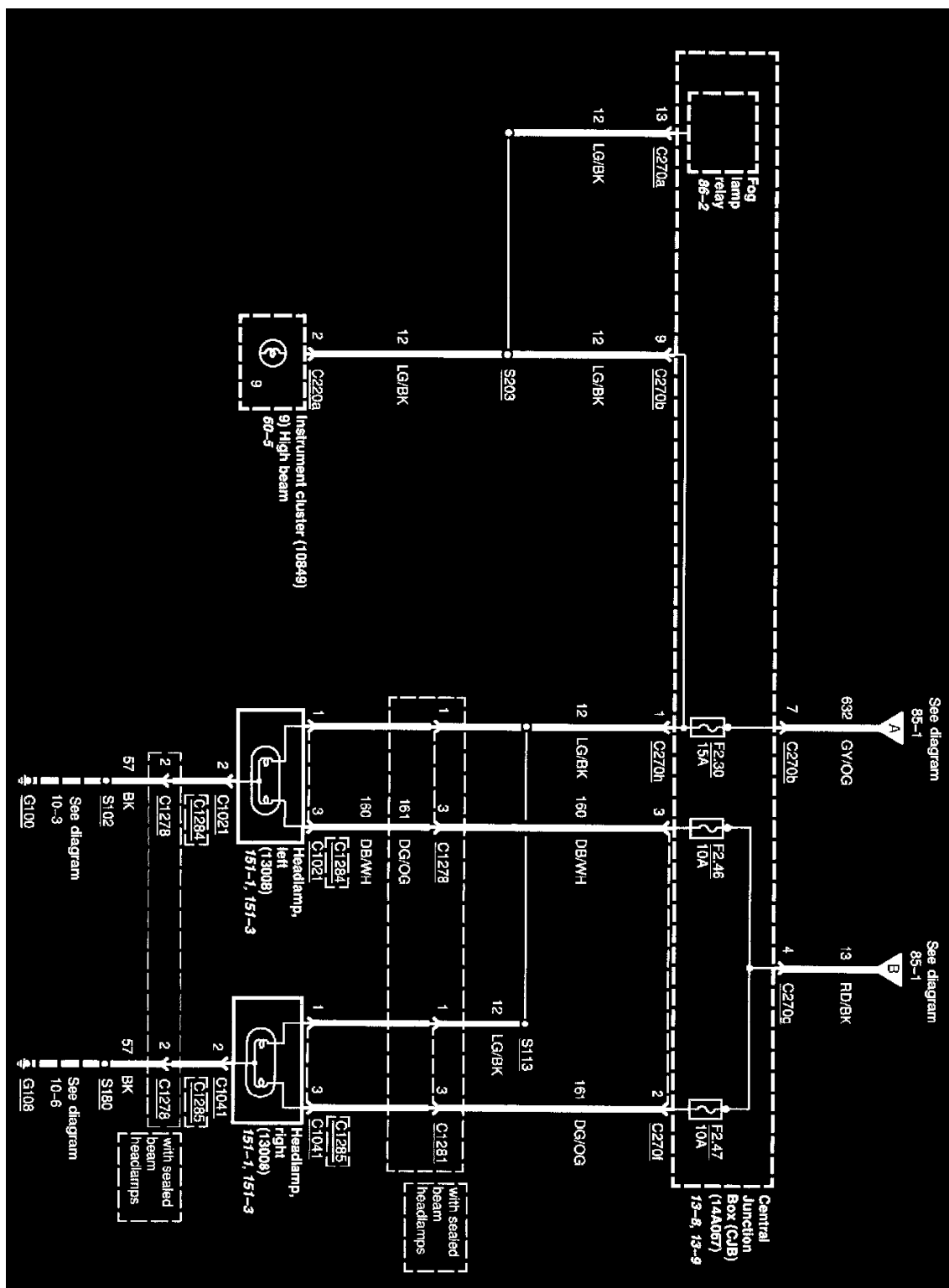
71-3





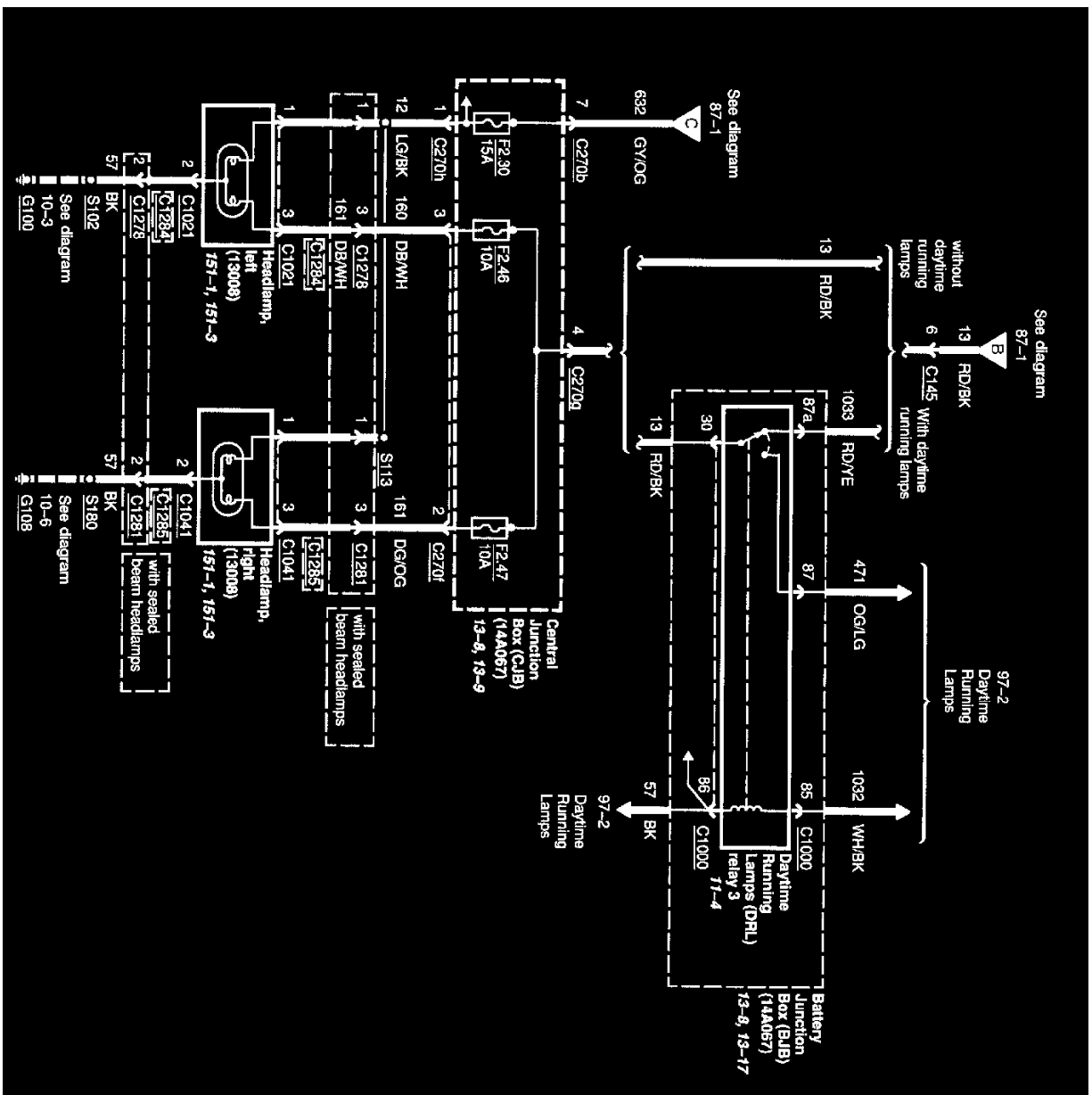




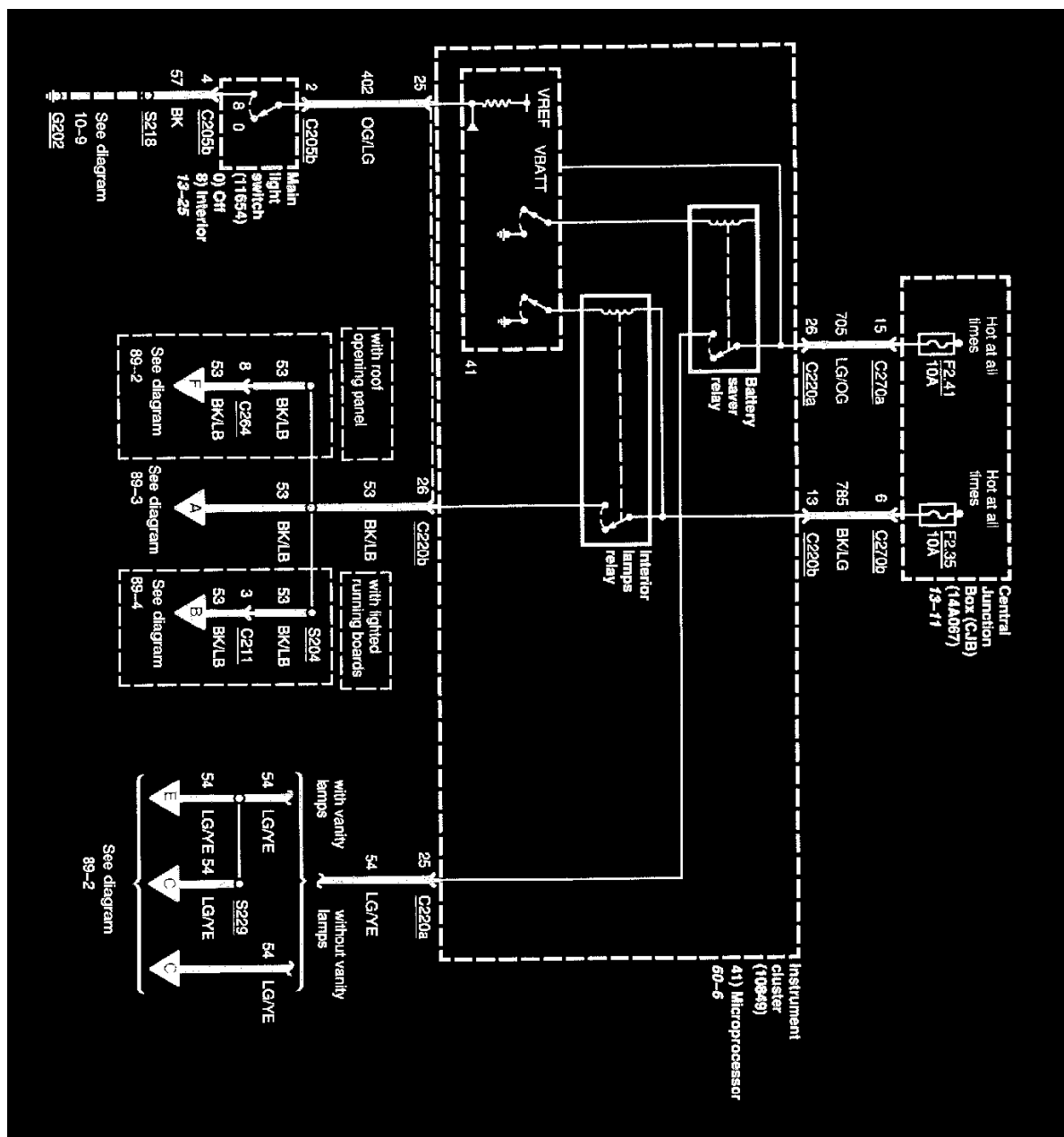




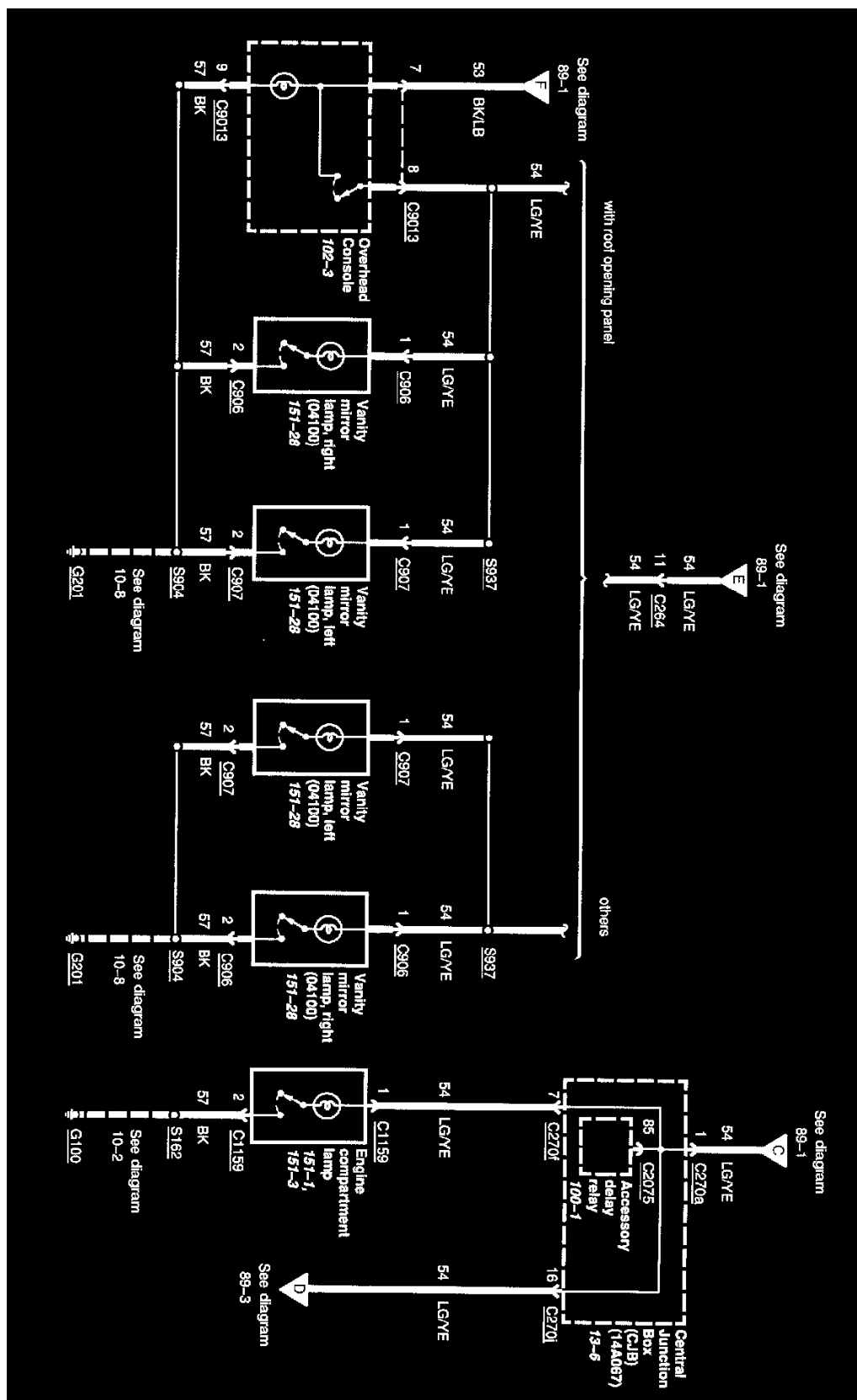




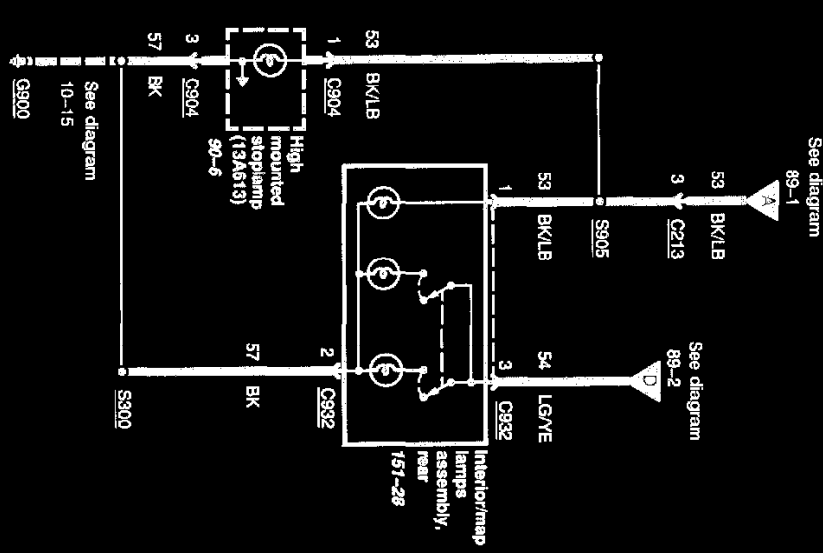
87-2



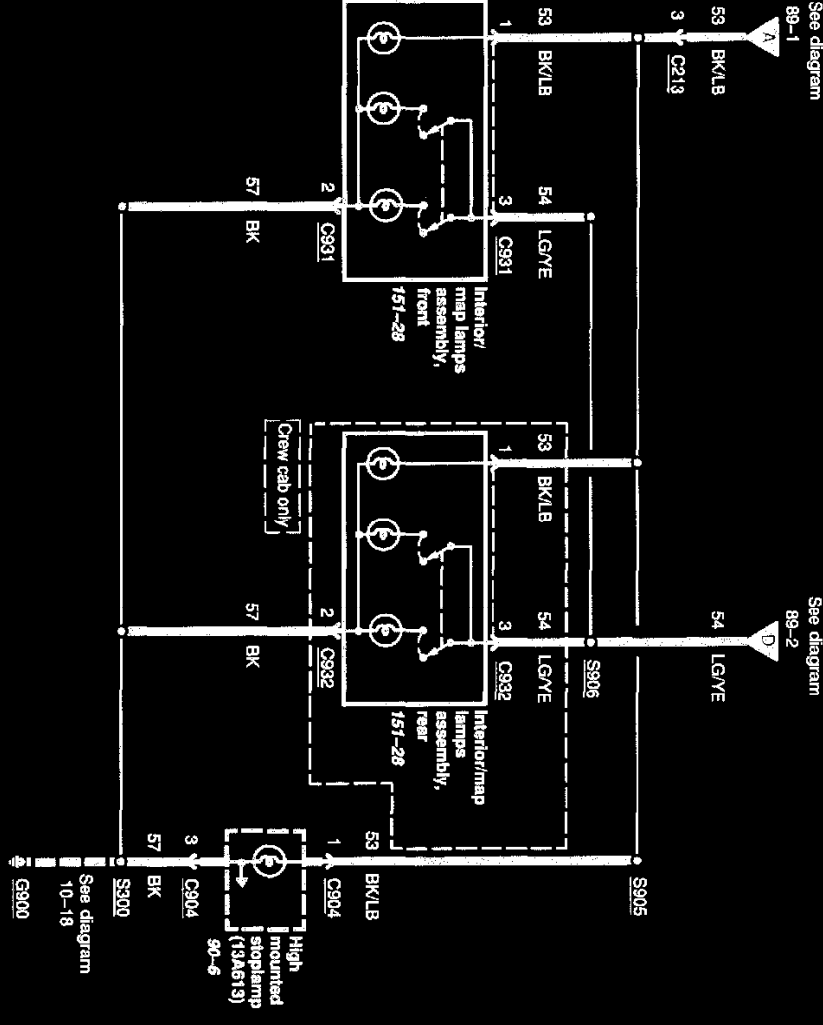


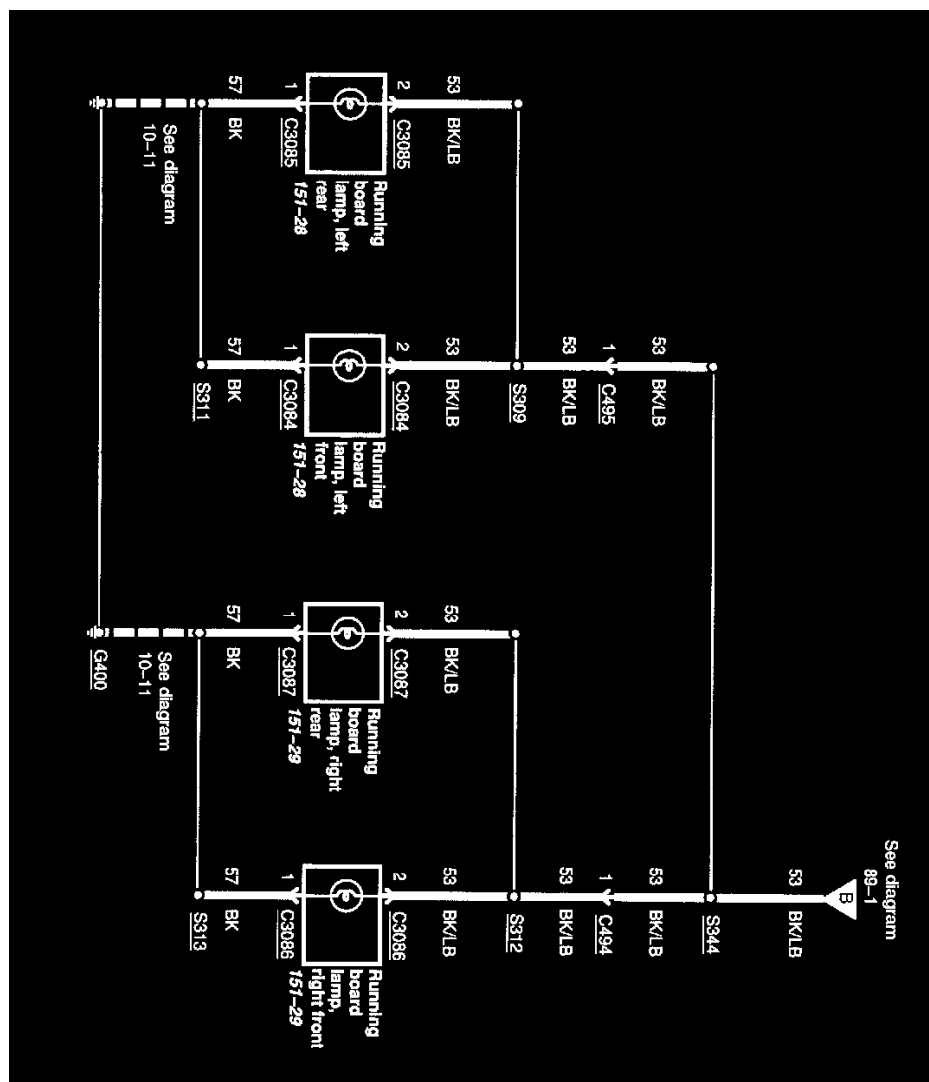


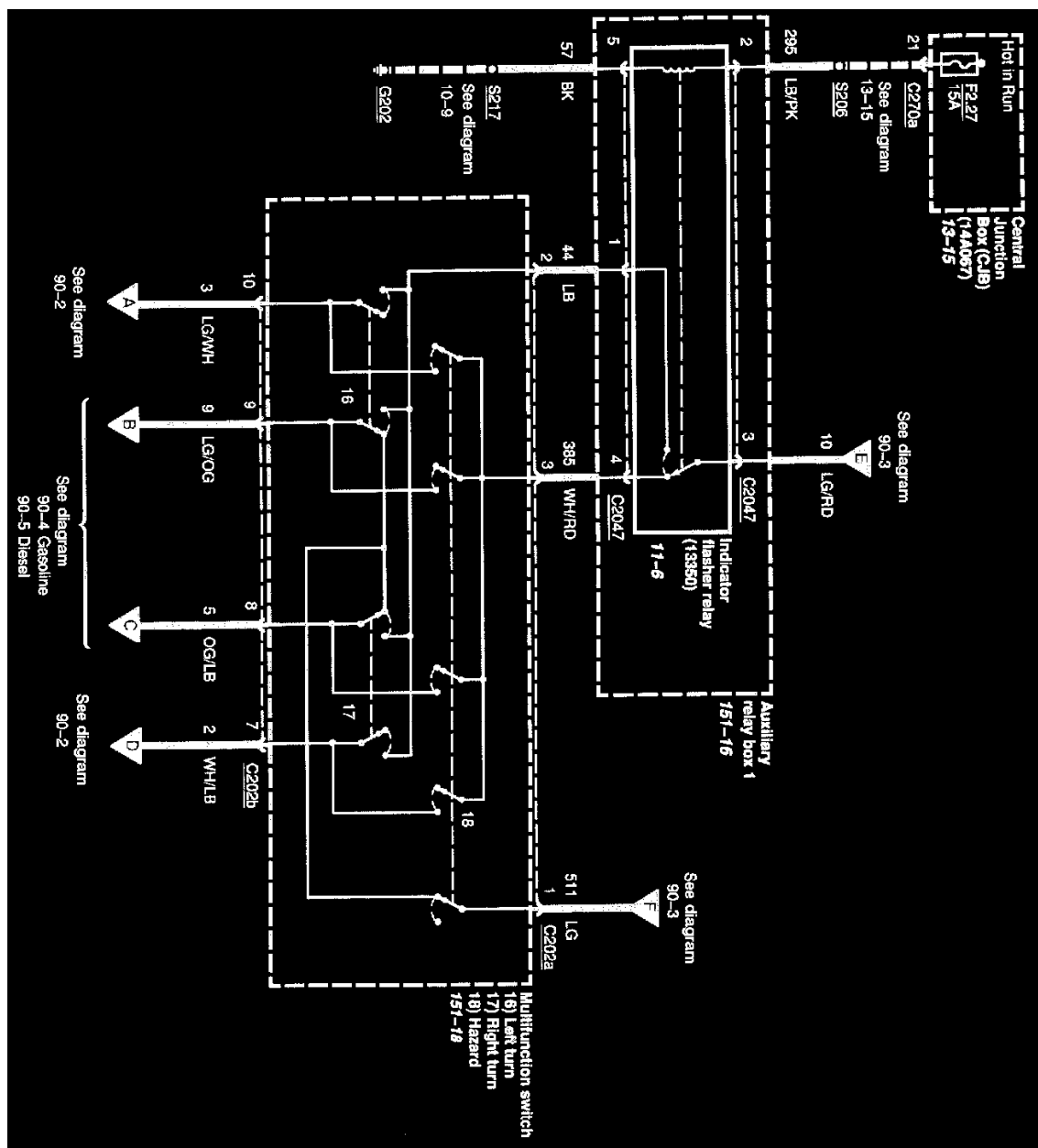
# Regular cab

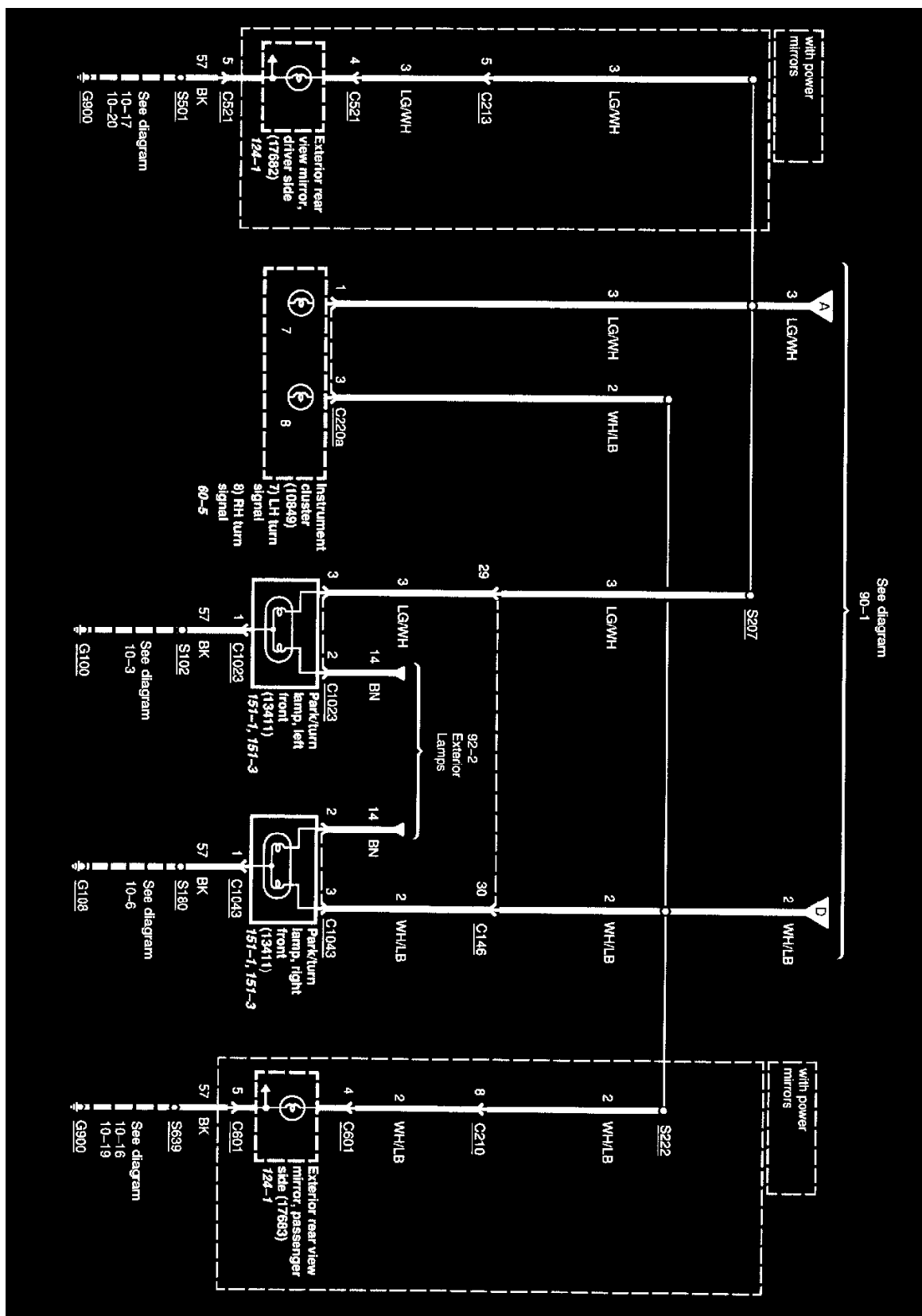


# Crew & Super cab



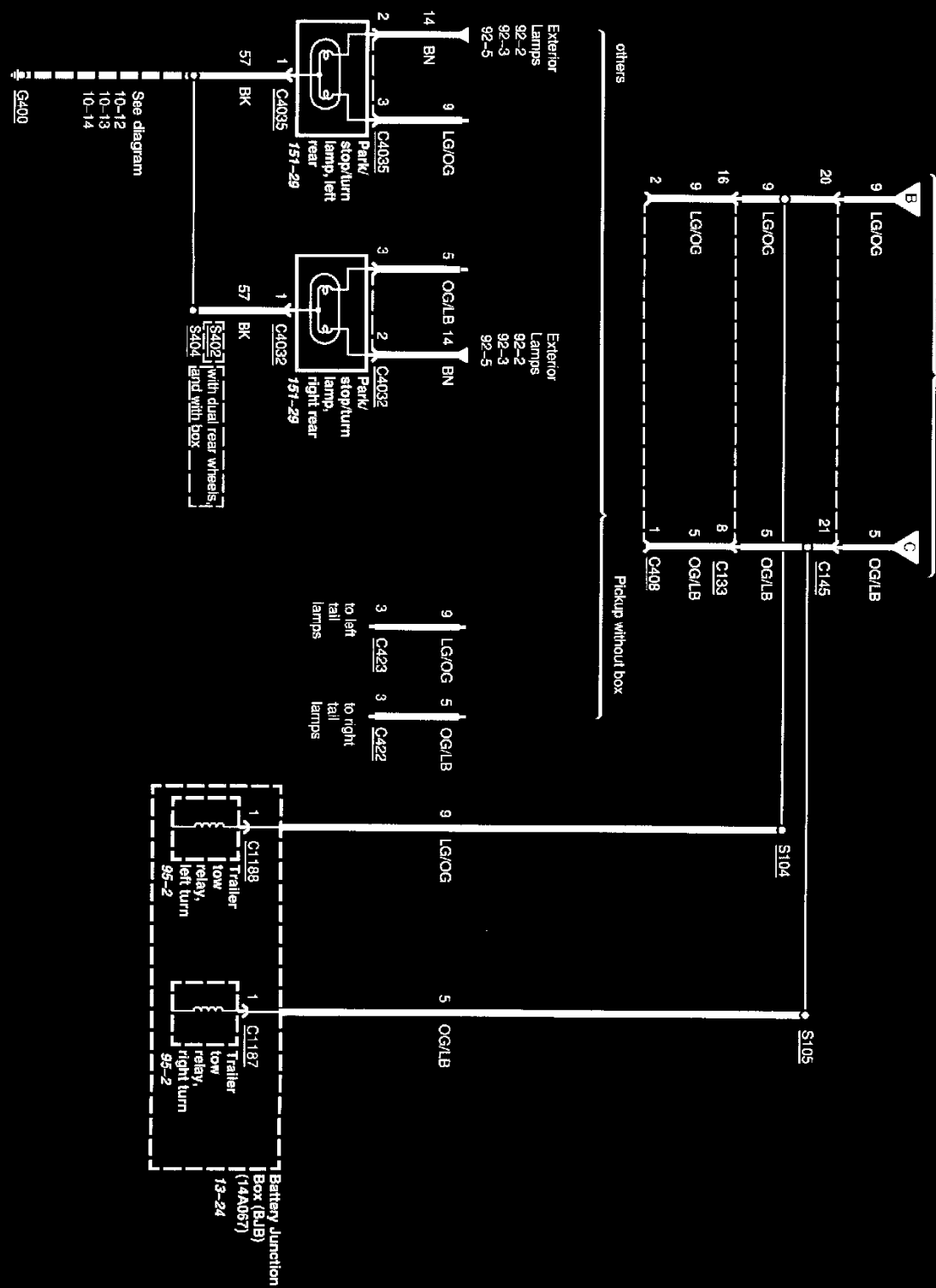








## Gasoline

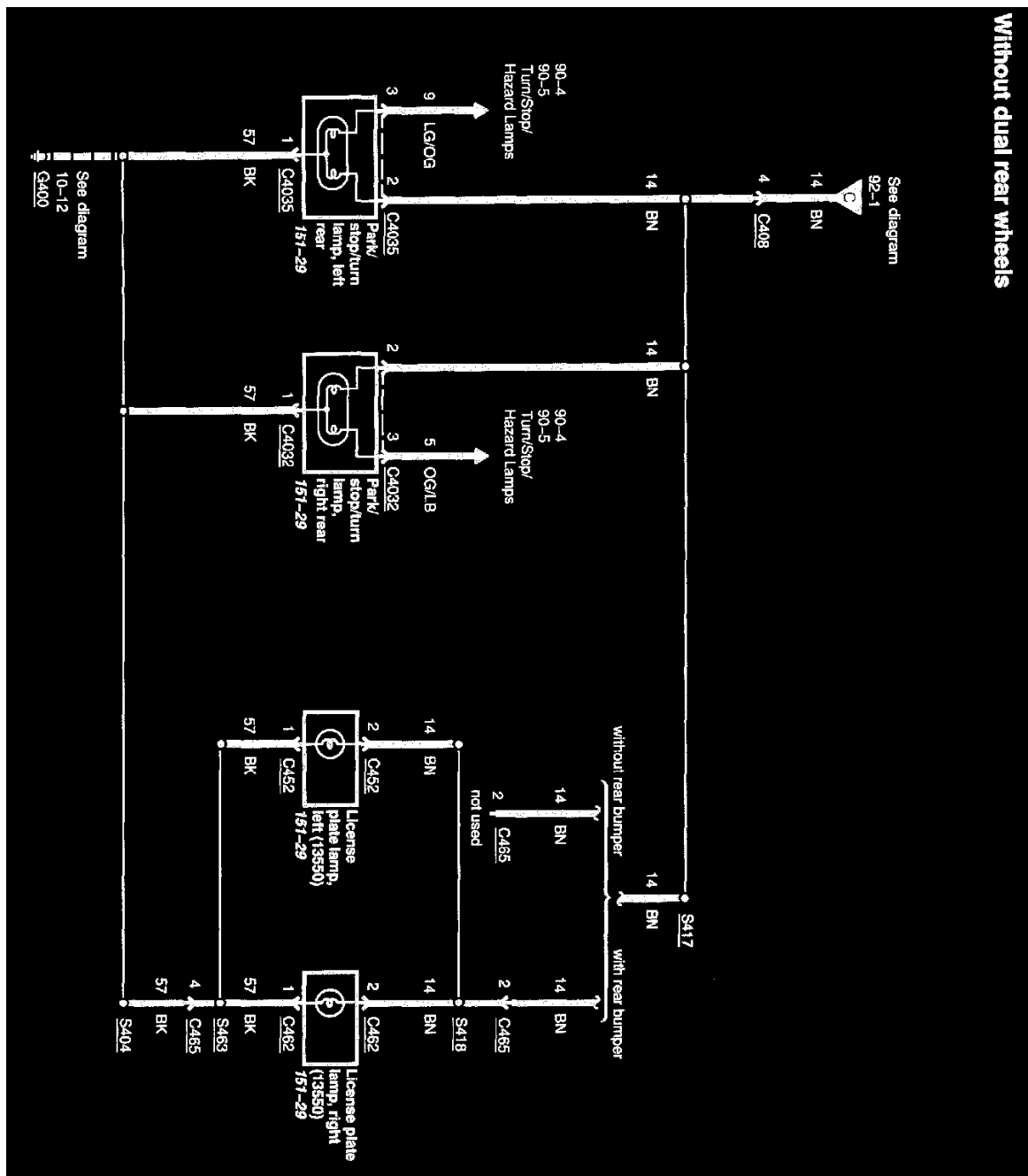
See diagram  
90-1





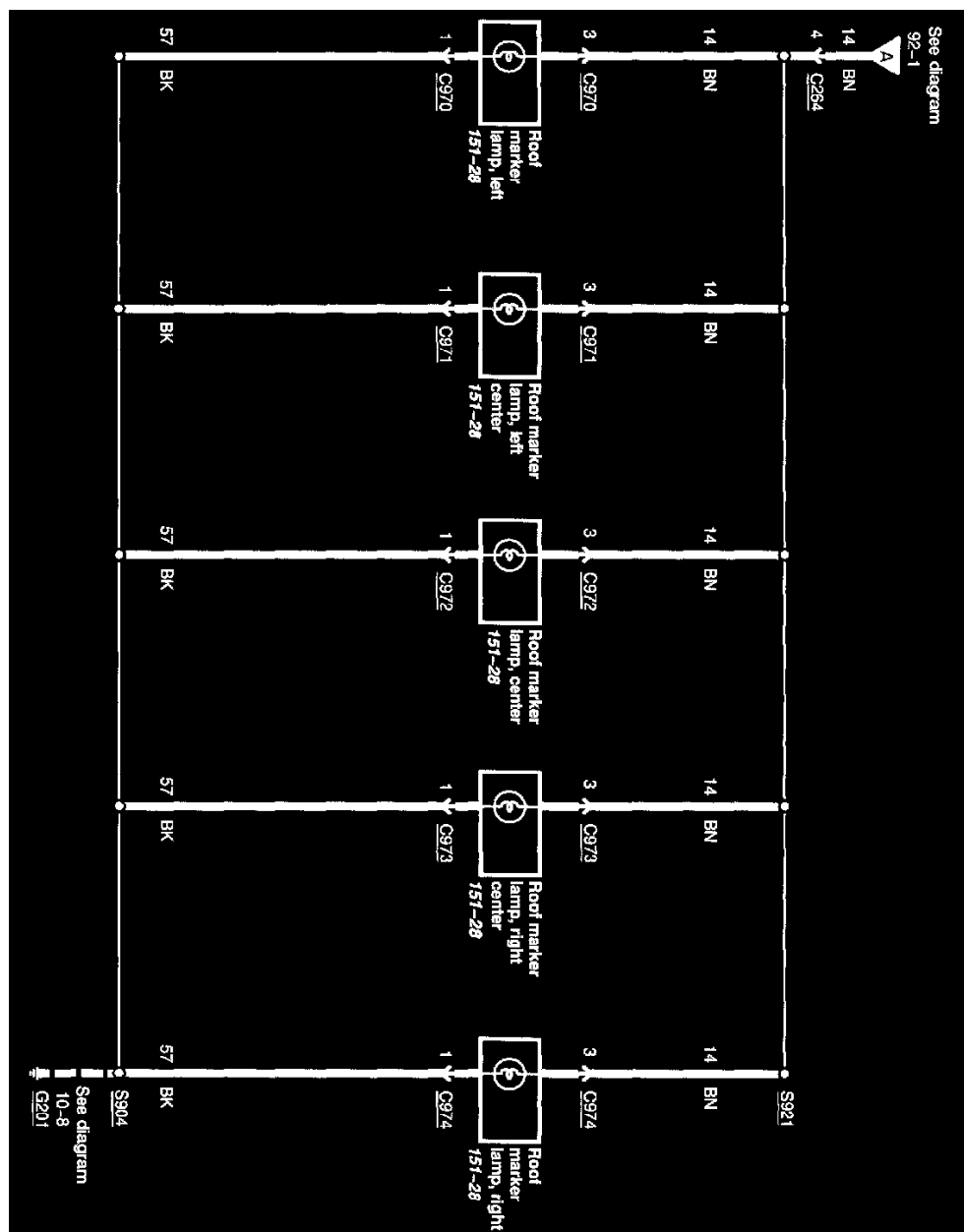




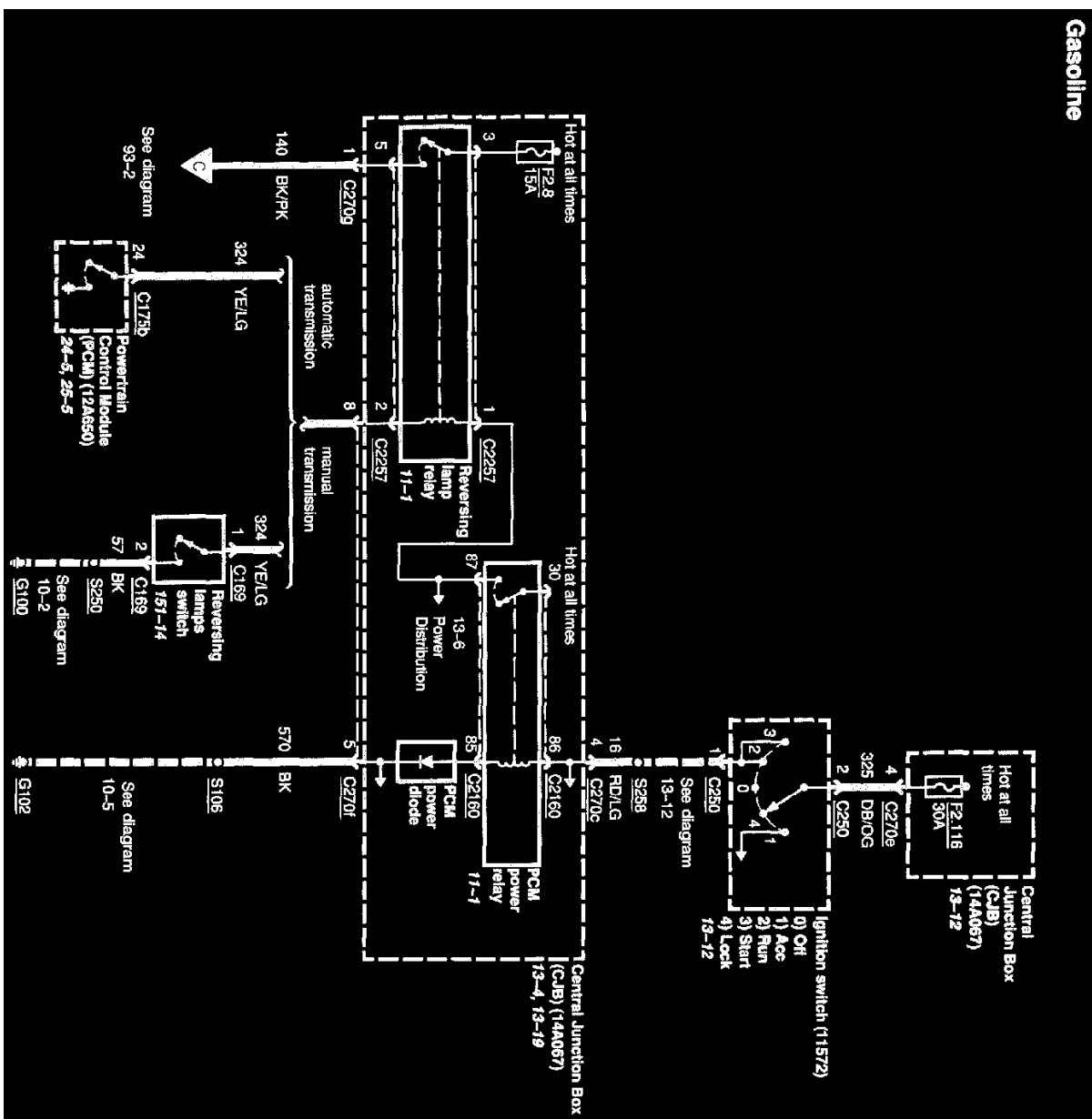
**Without dual rear wheels**



[illegible]



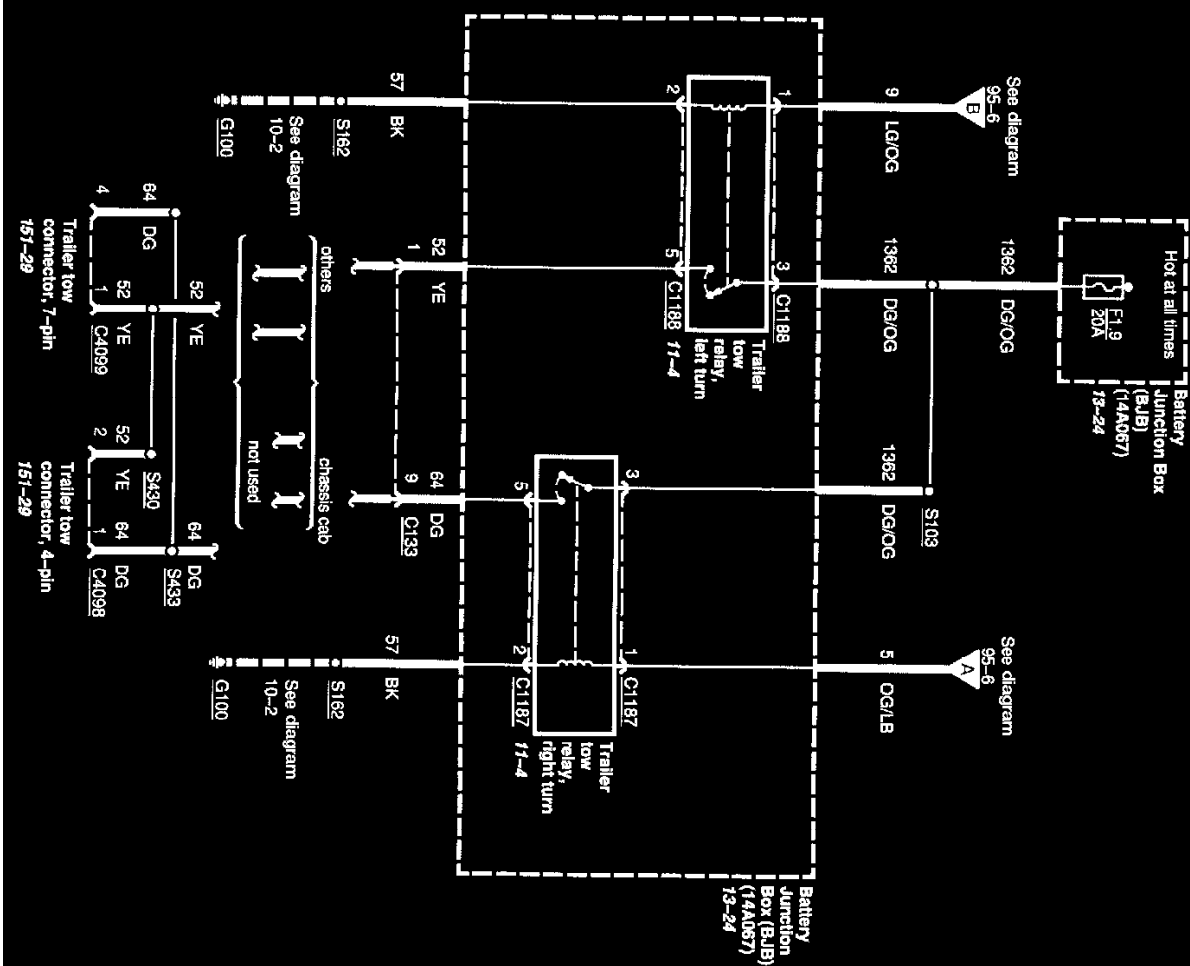
## Gasoline



**93-2**



## Gasoline



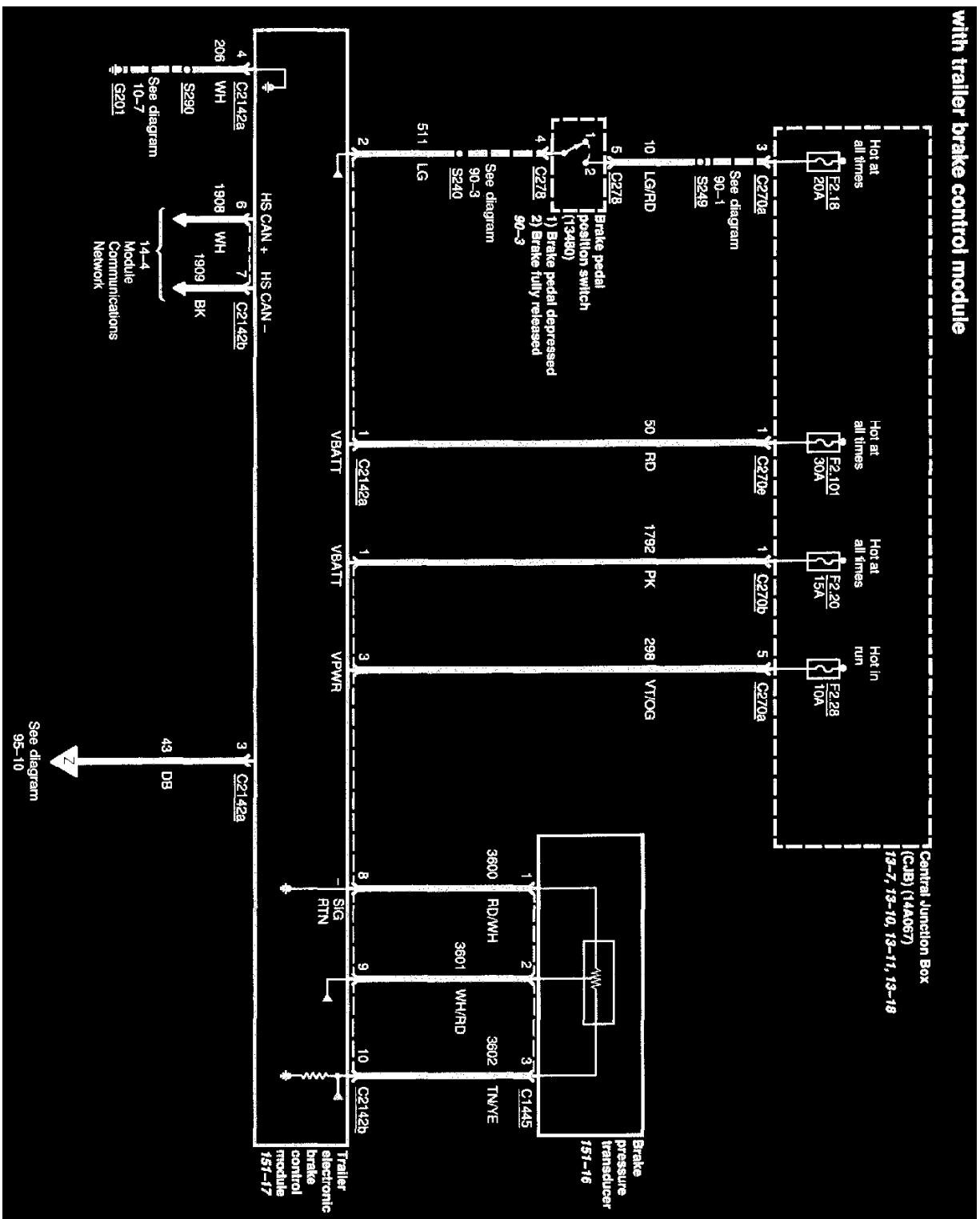


[illegible]

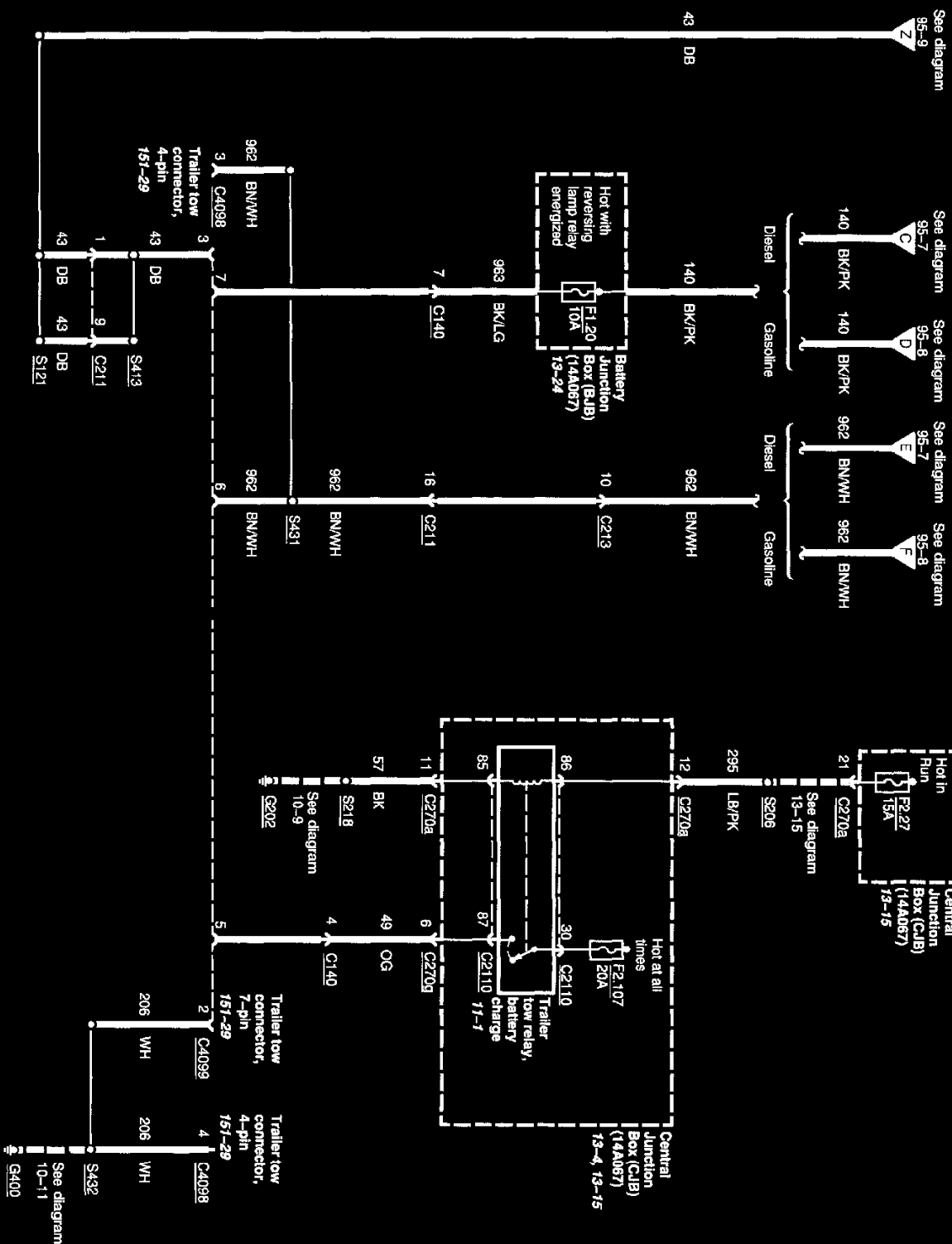




**95-8**



## with trailer brake control module







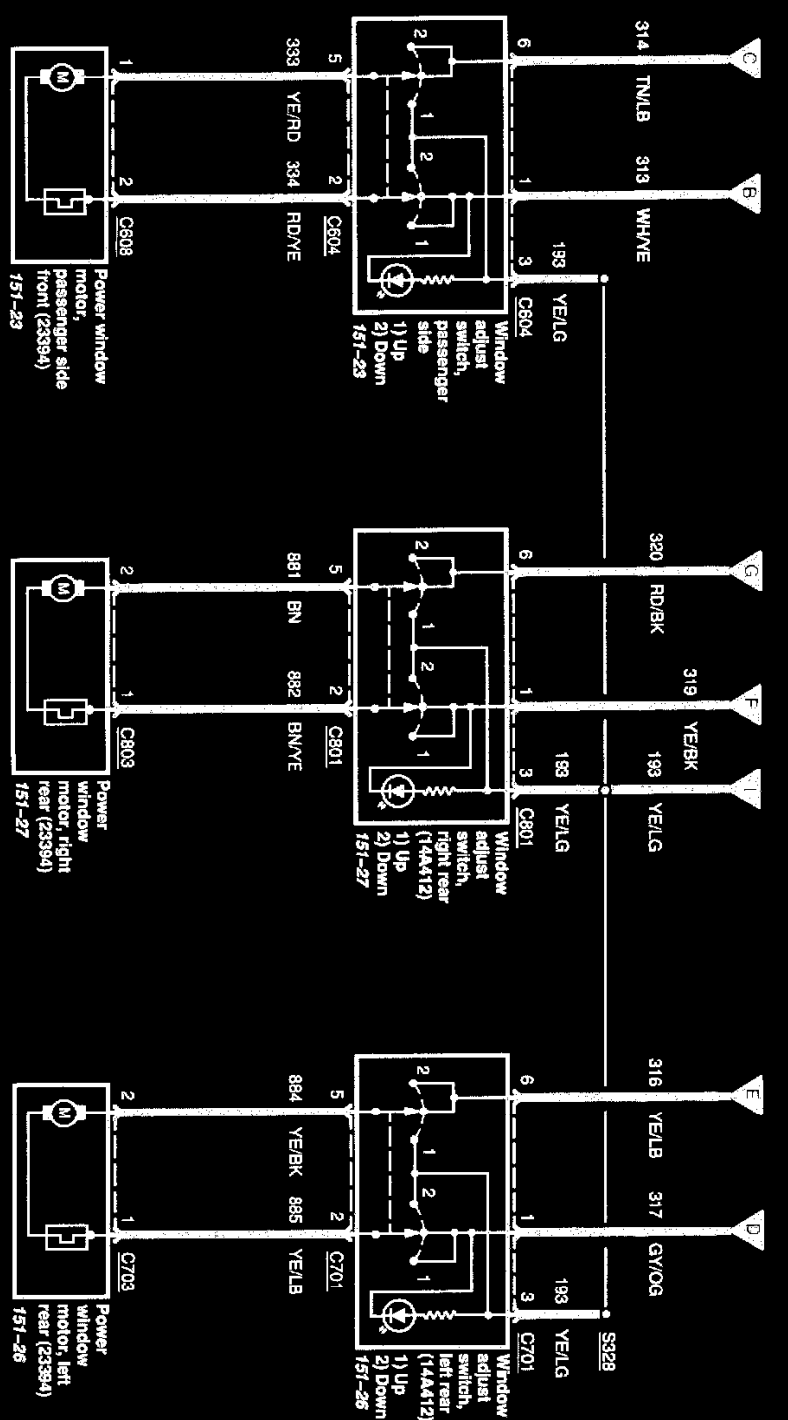




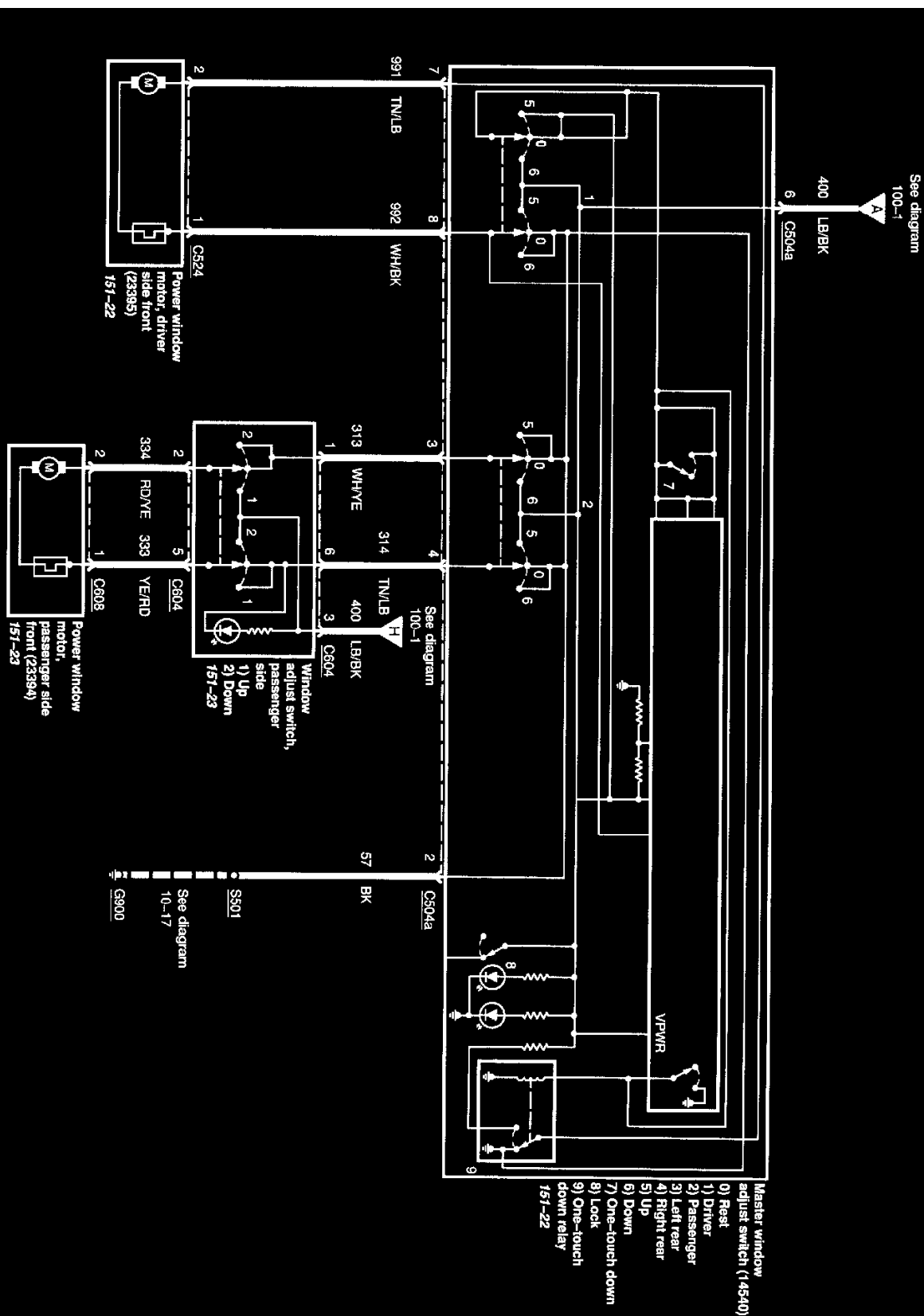
See diagram  
100-1



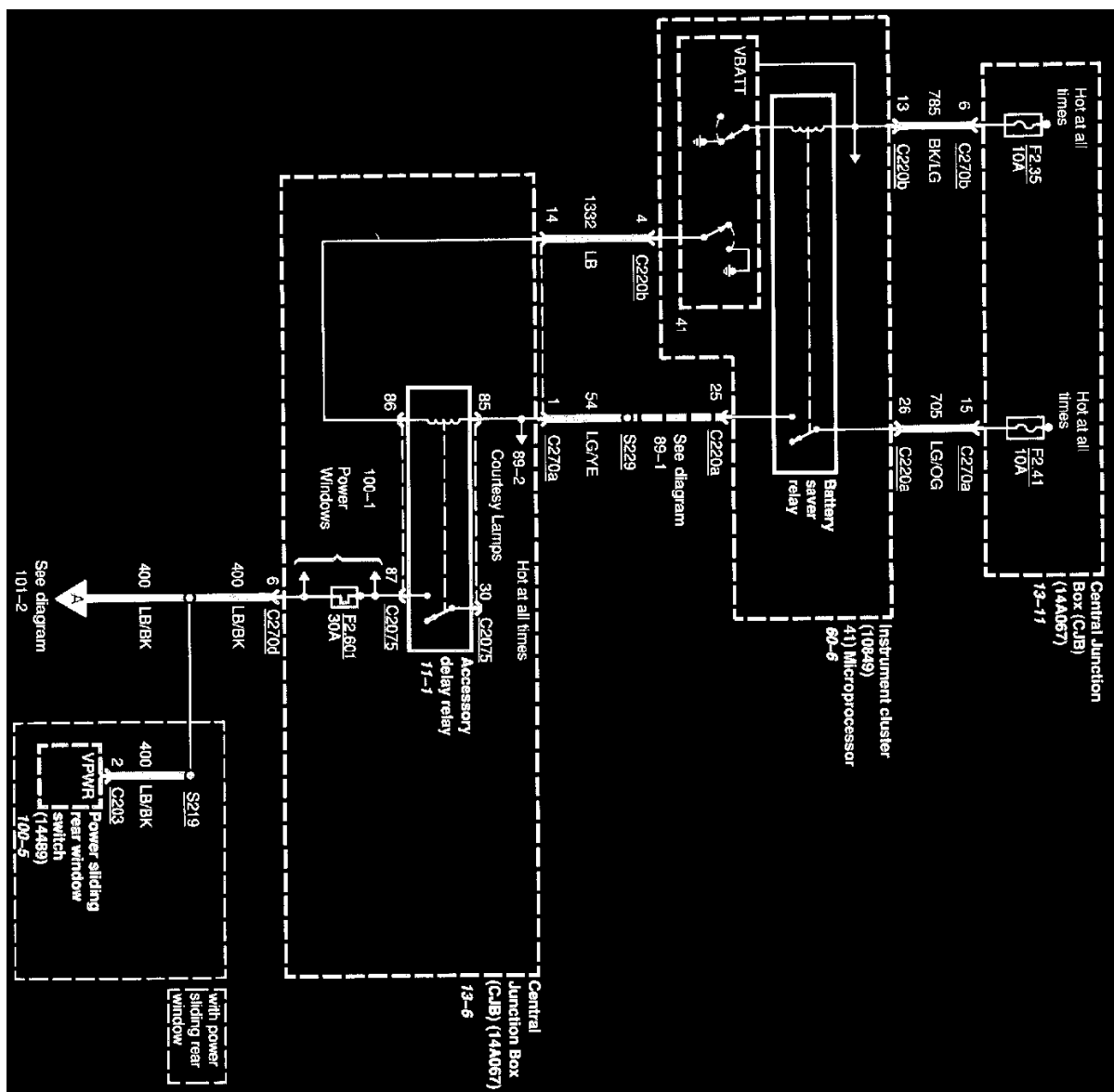
with crew cab

See diagram  
100-2

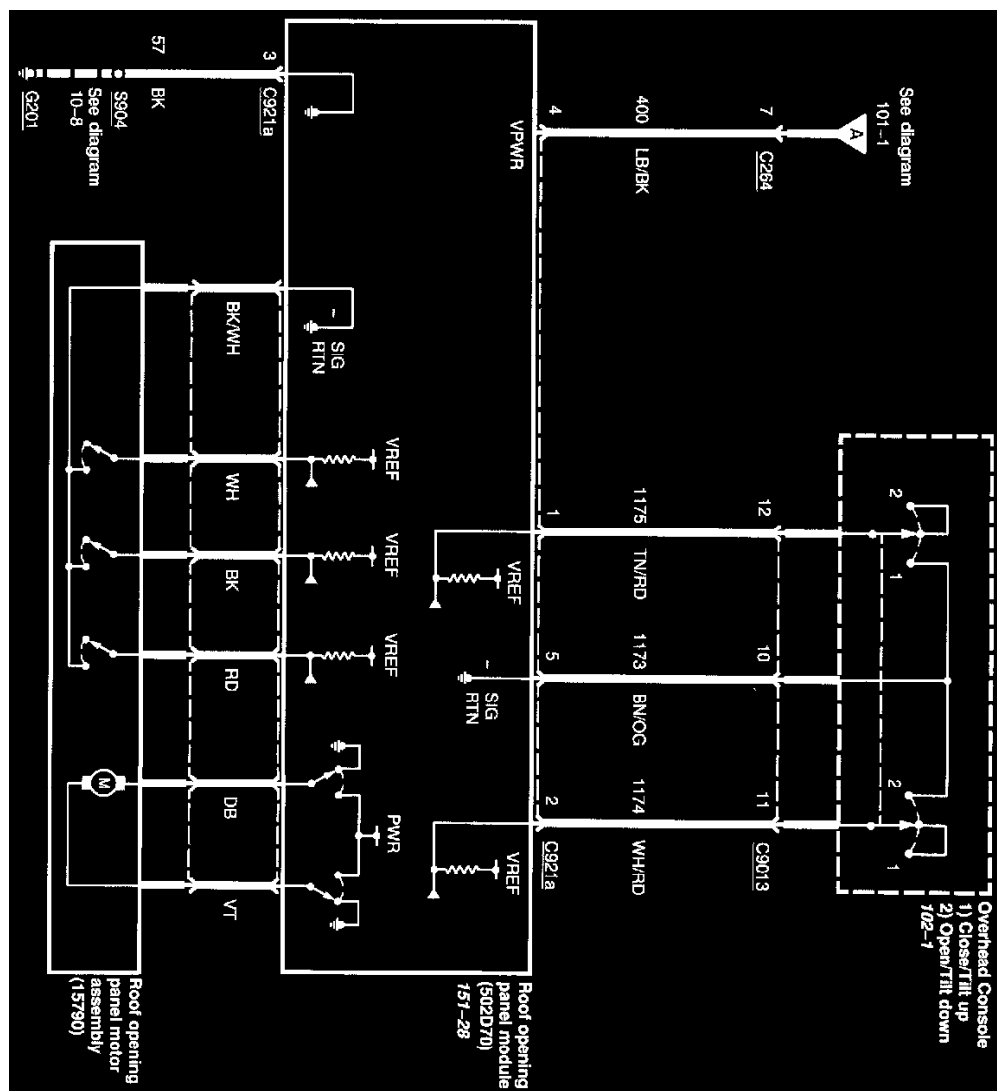
without crew cab









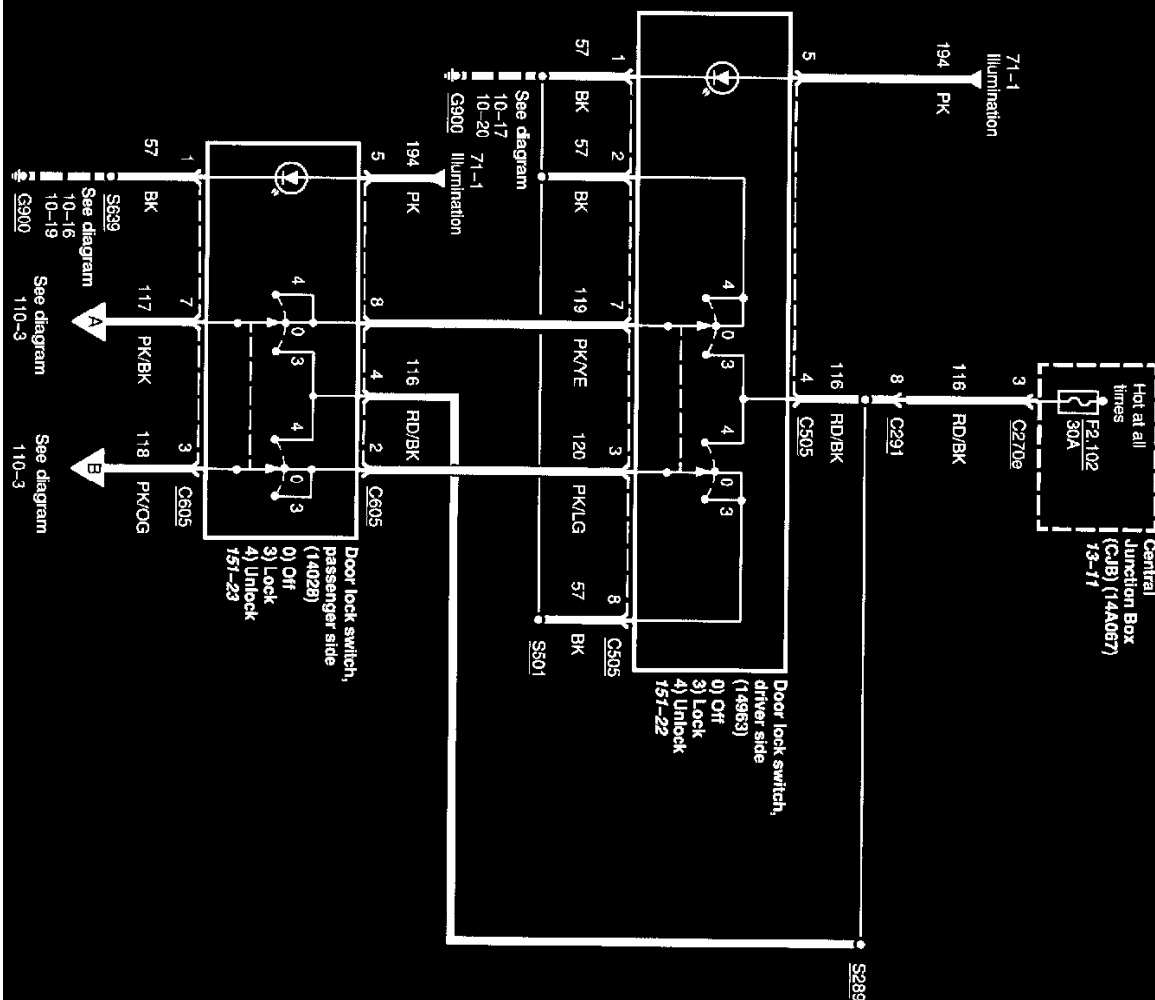


101-2





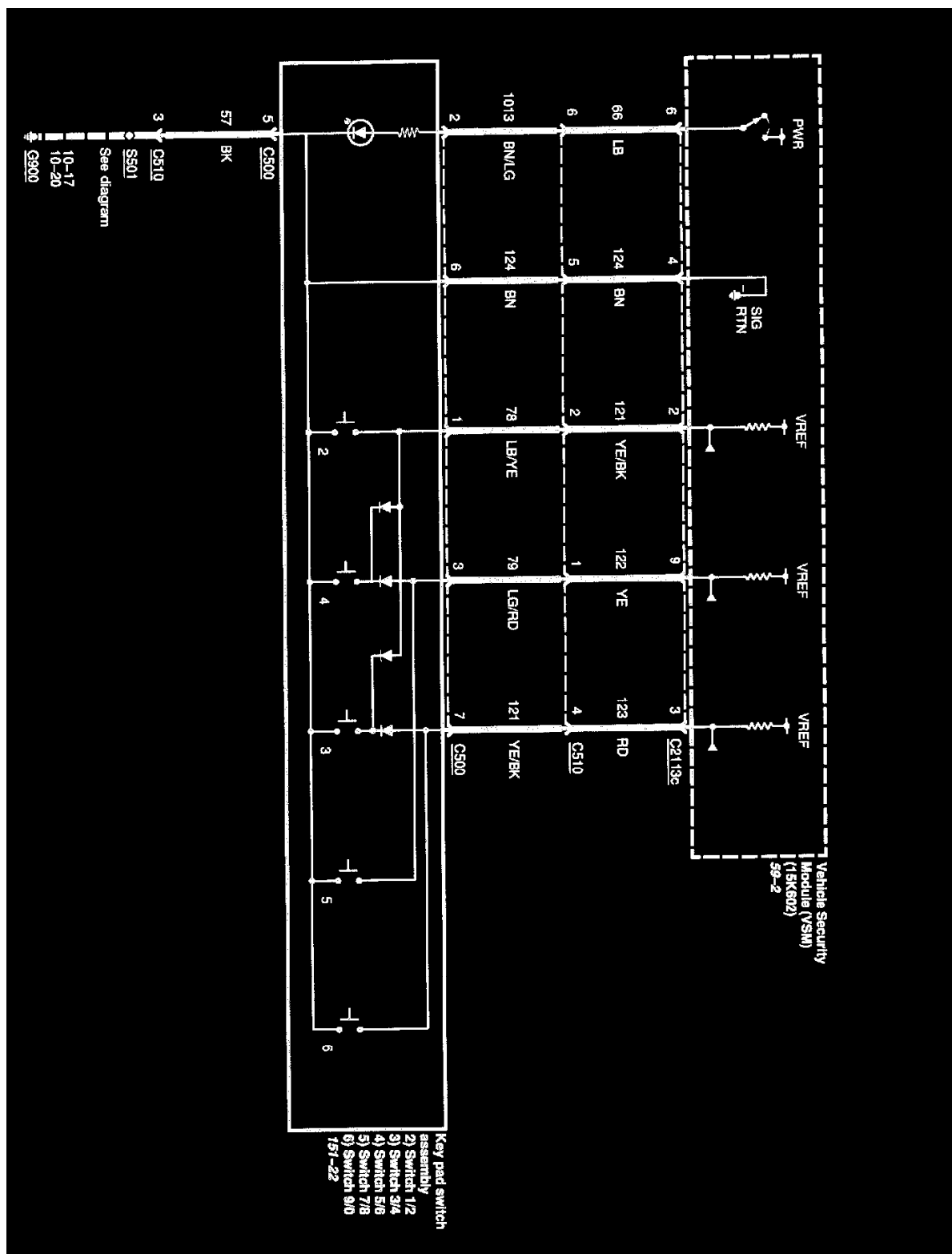
without remote keyless entry



[illegible]

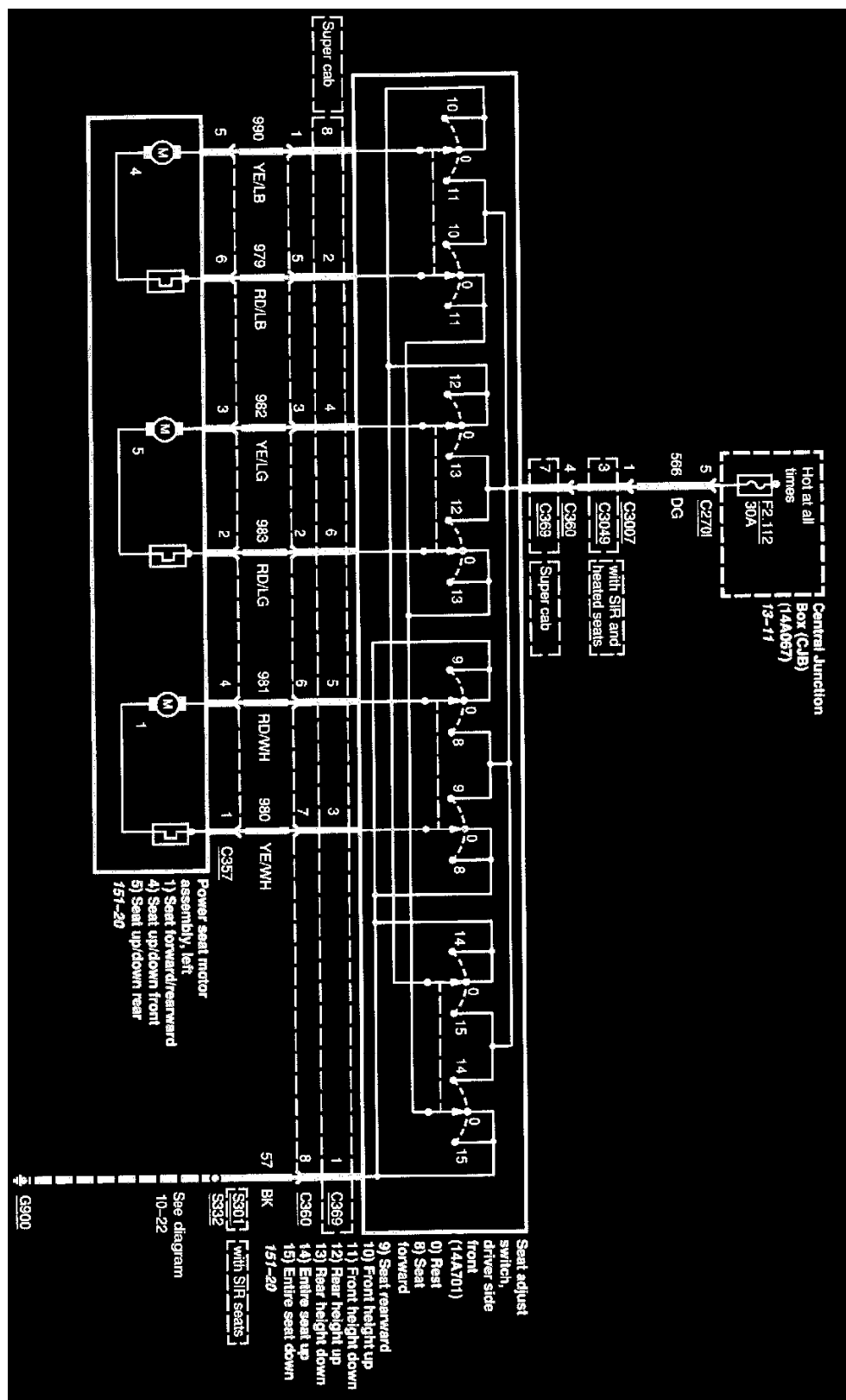


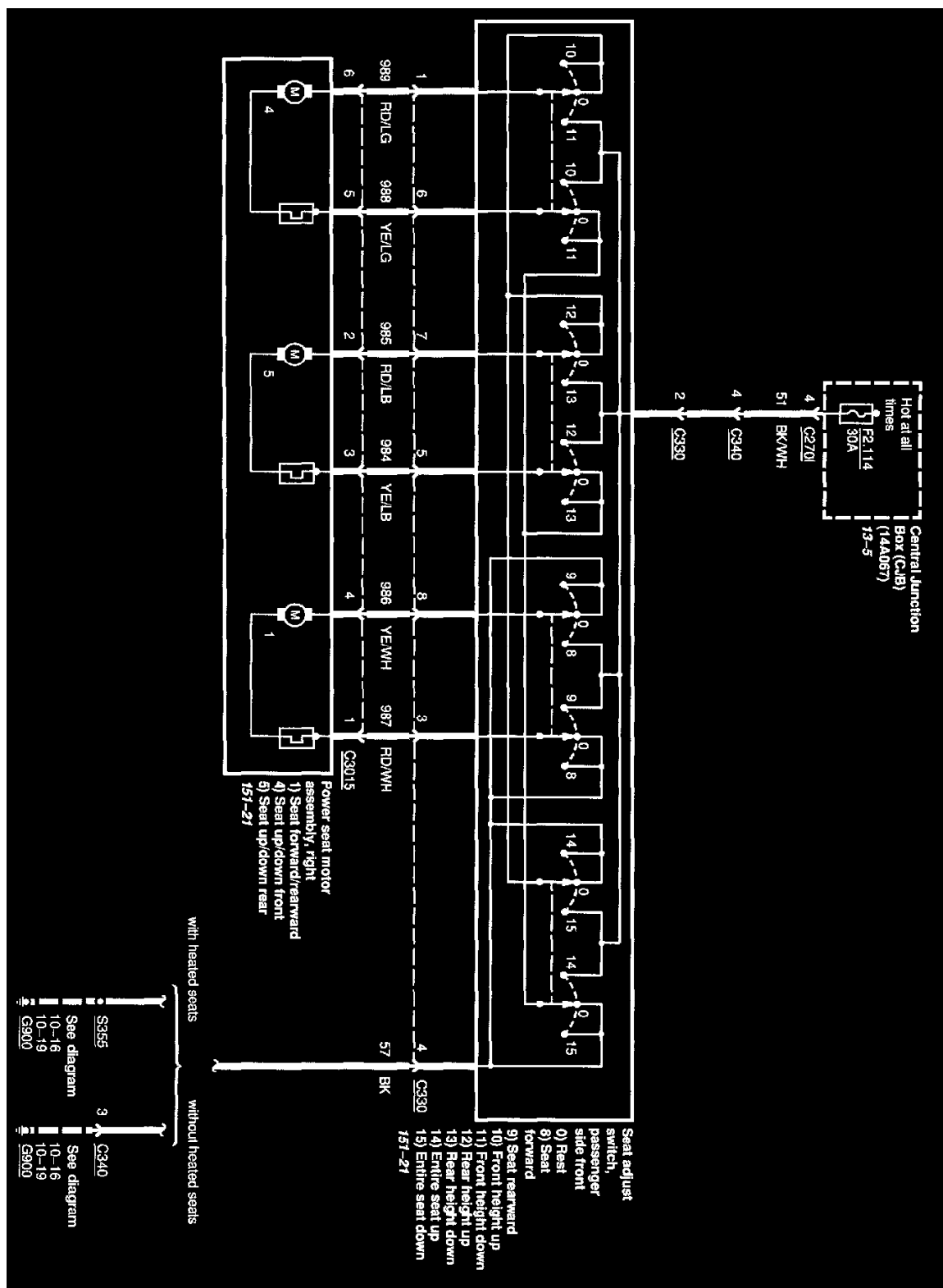


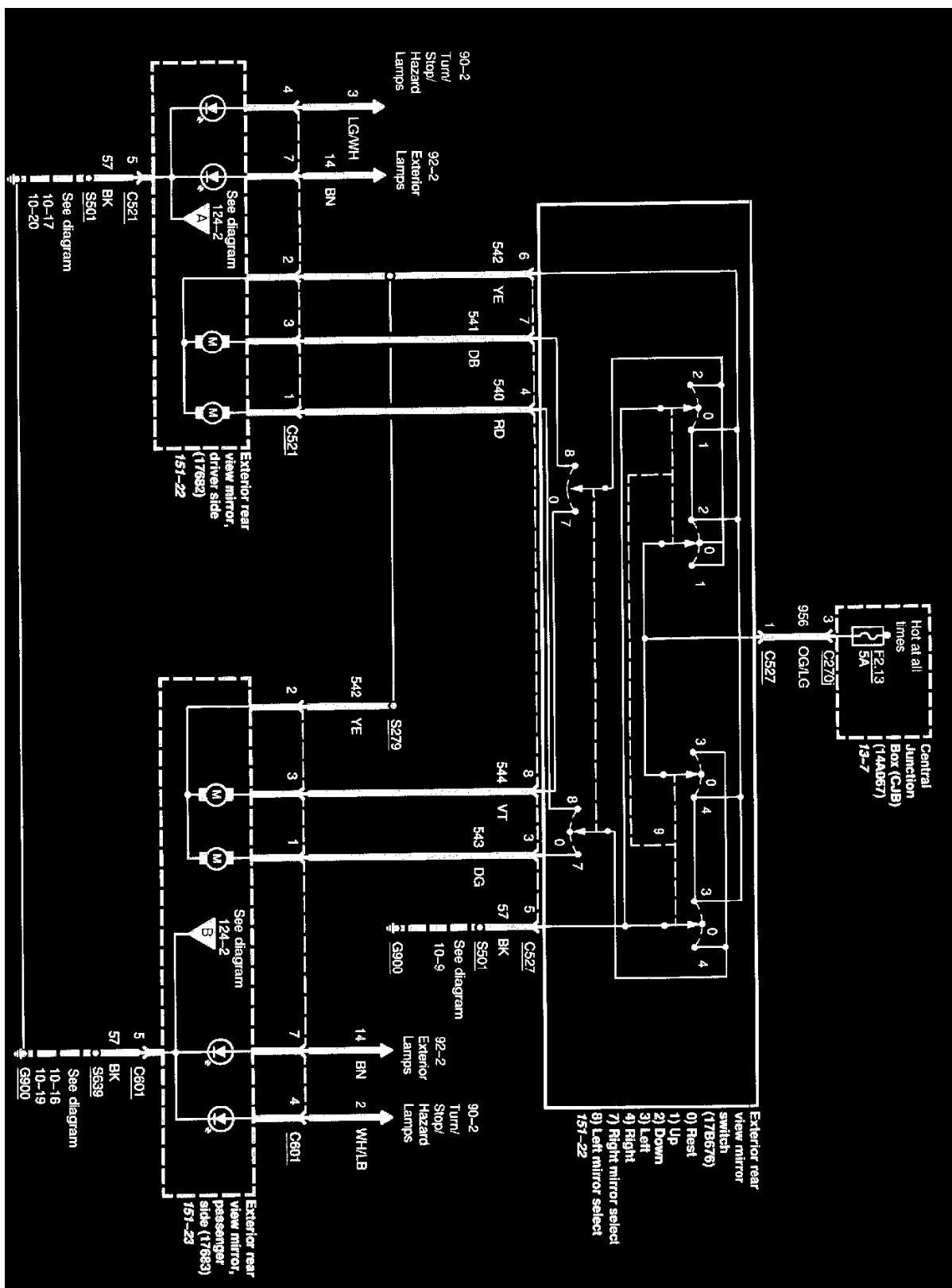


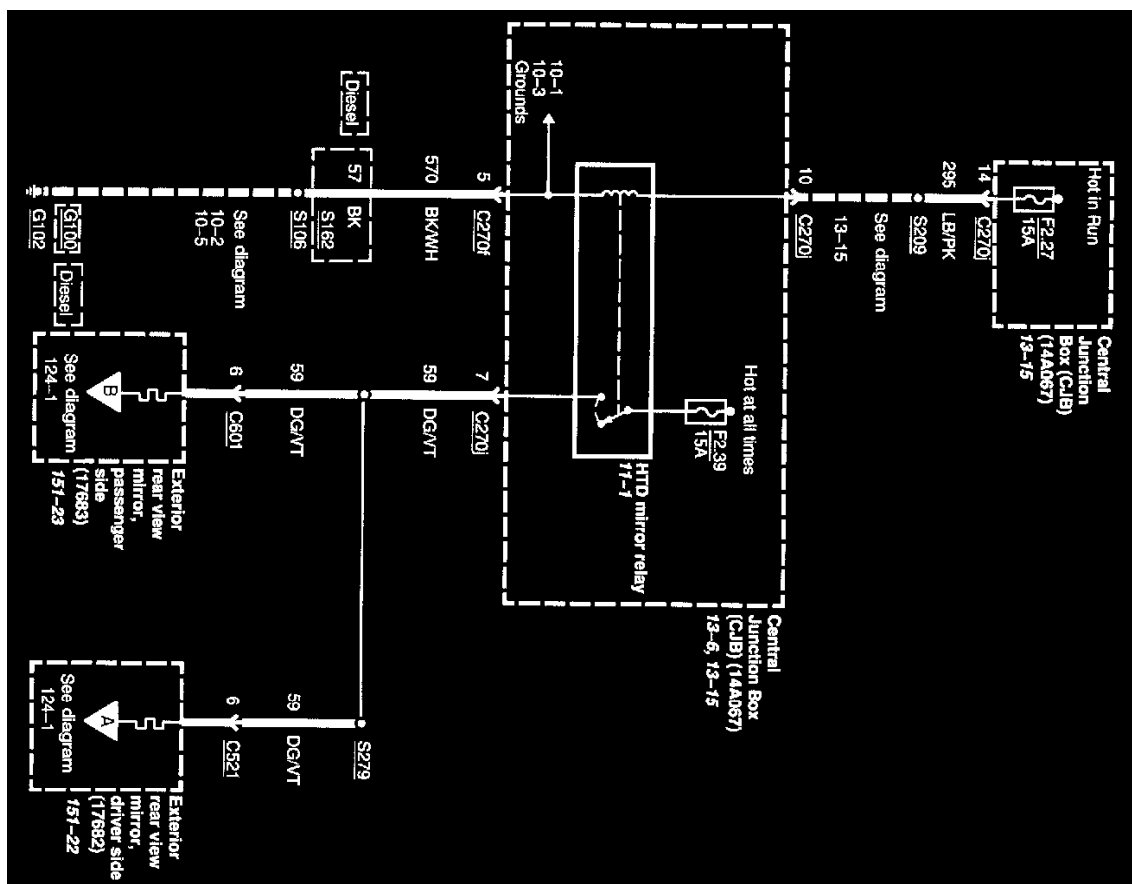






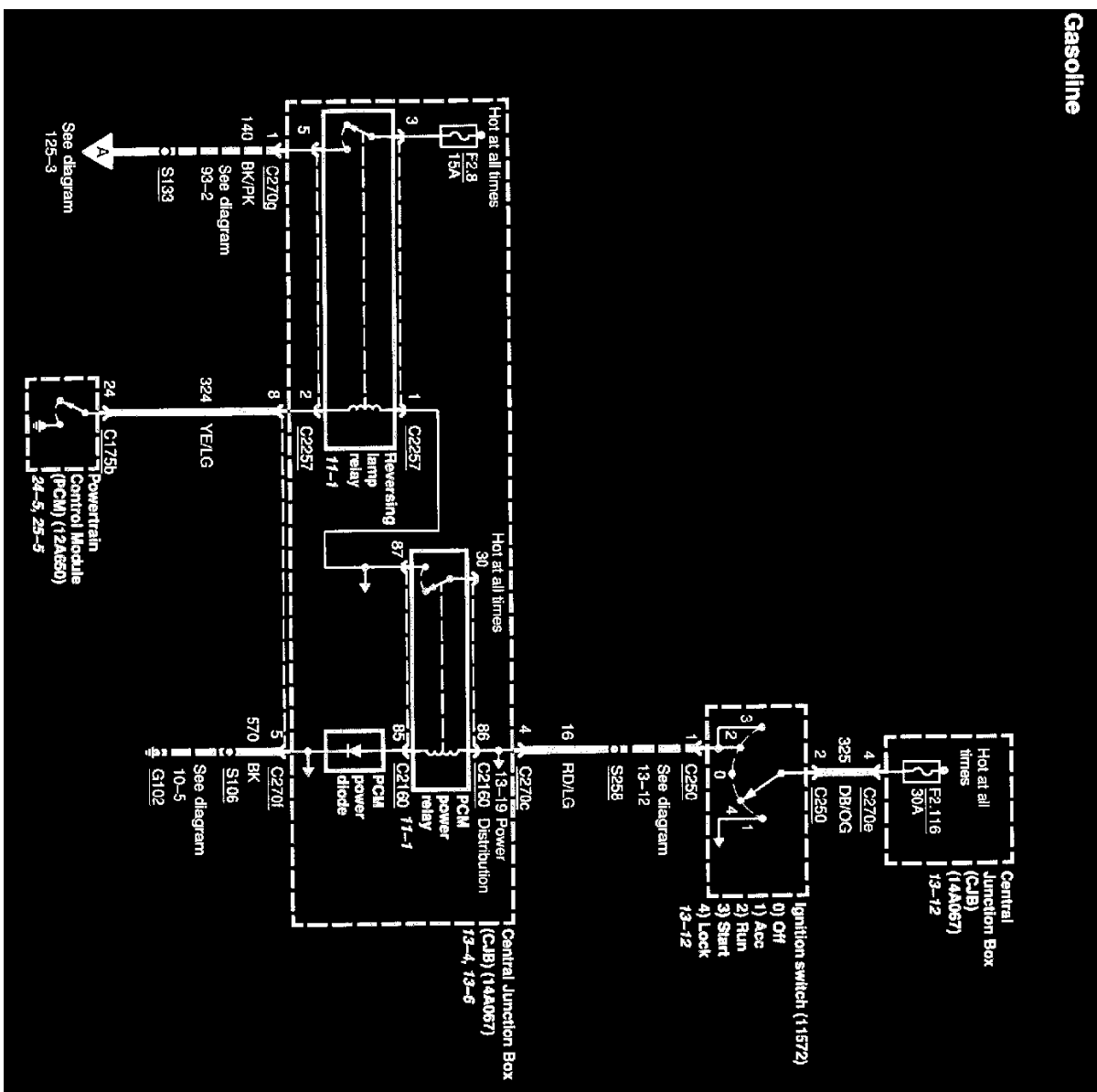


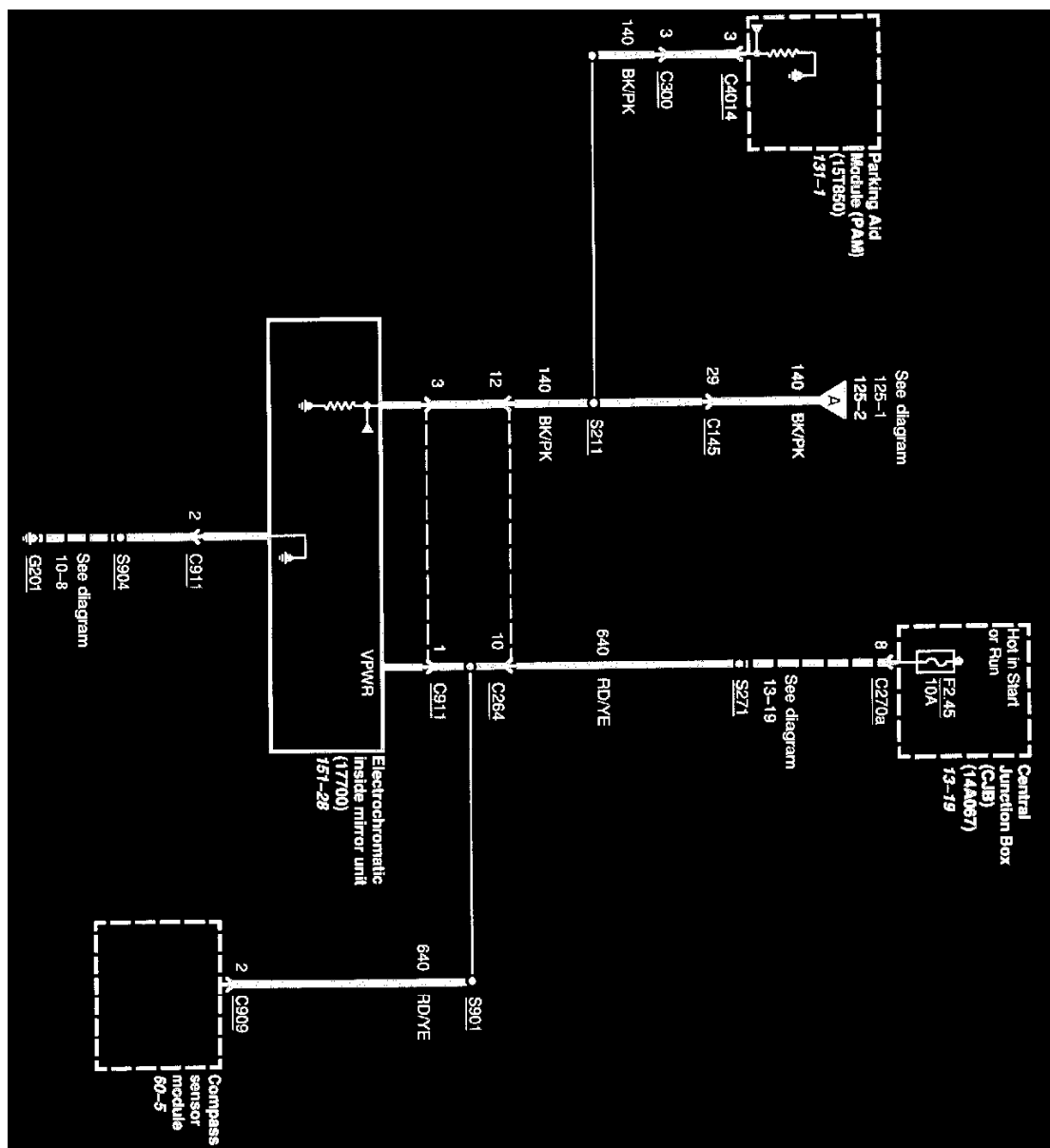




124-2

## Gasoline

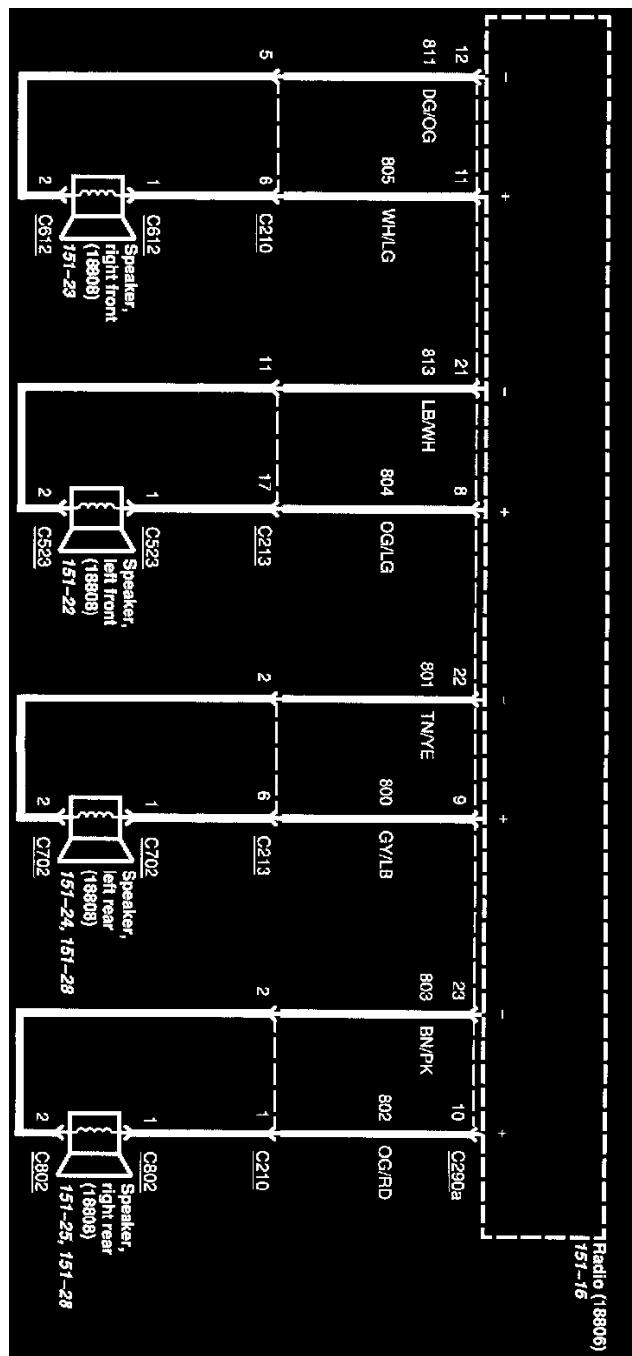




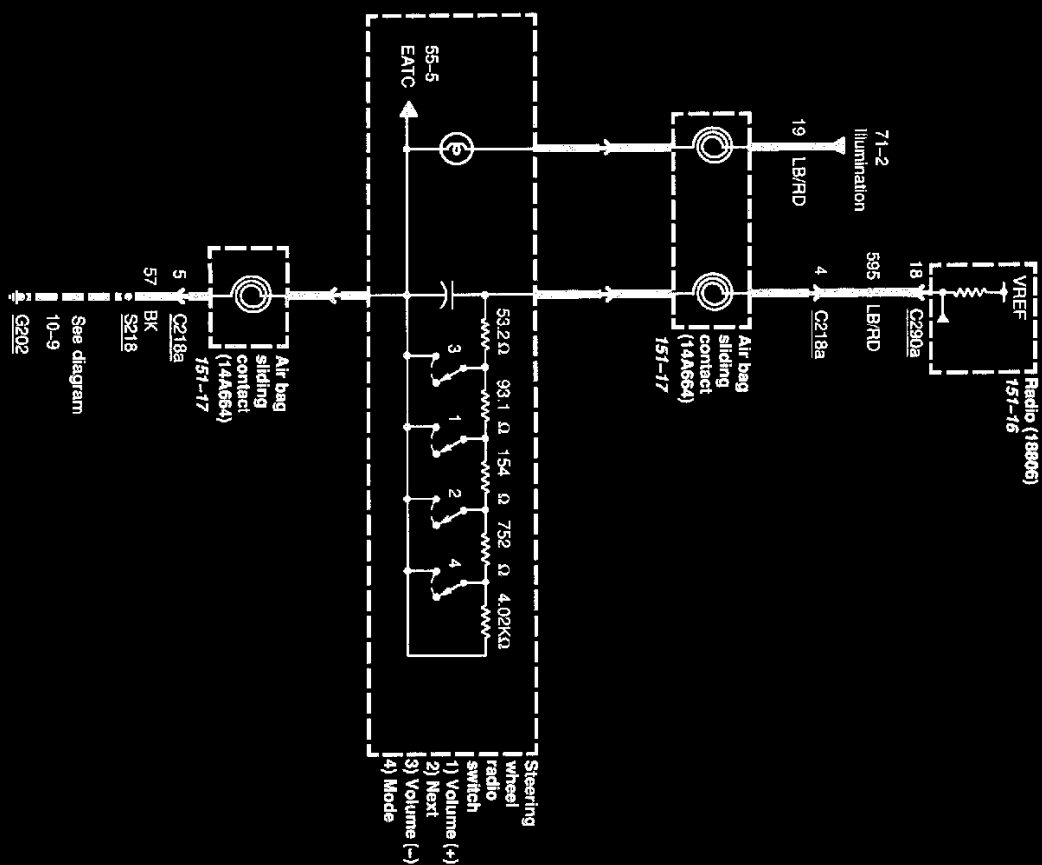






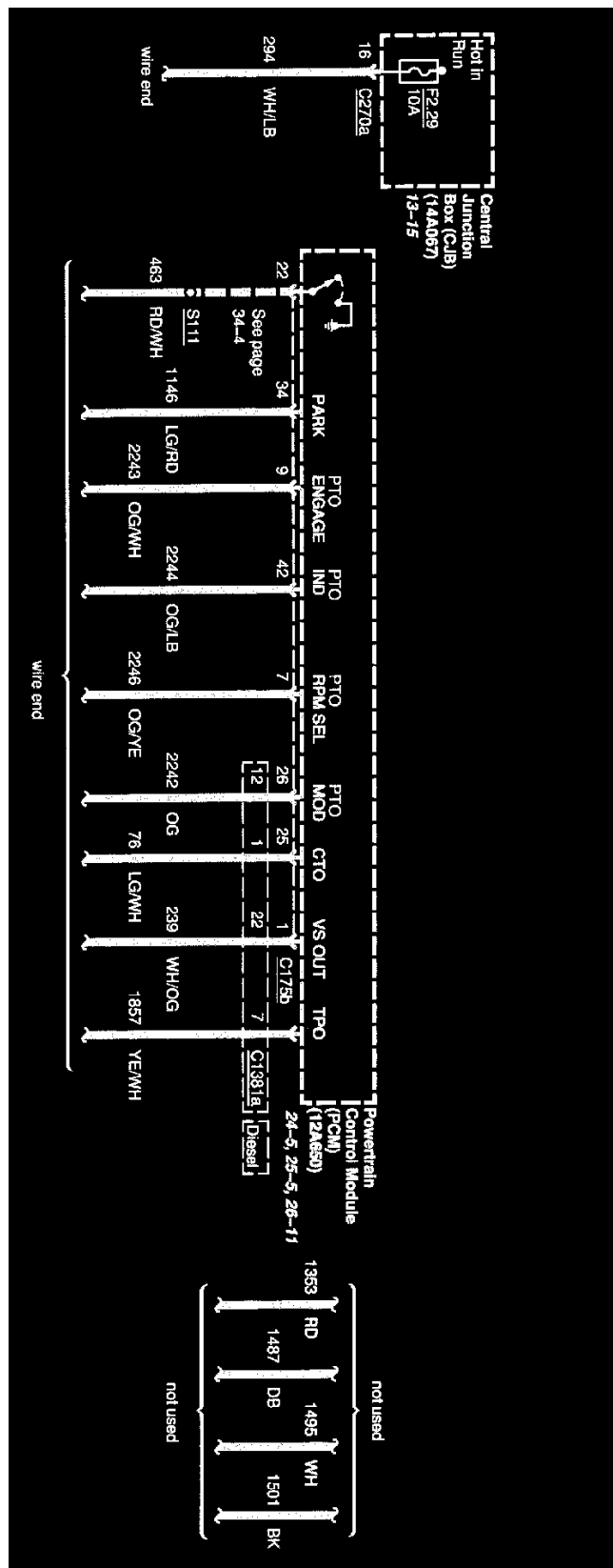


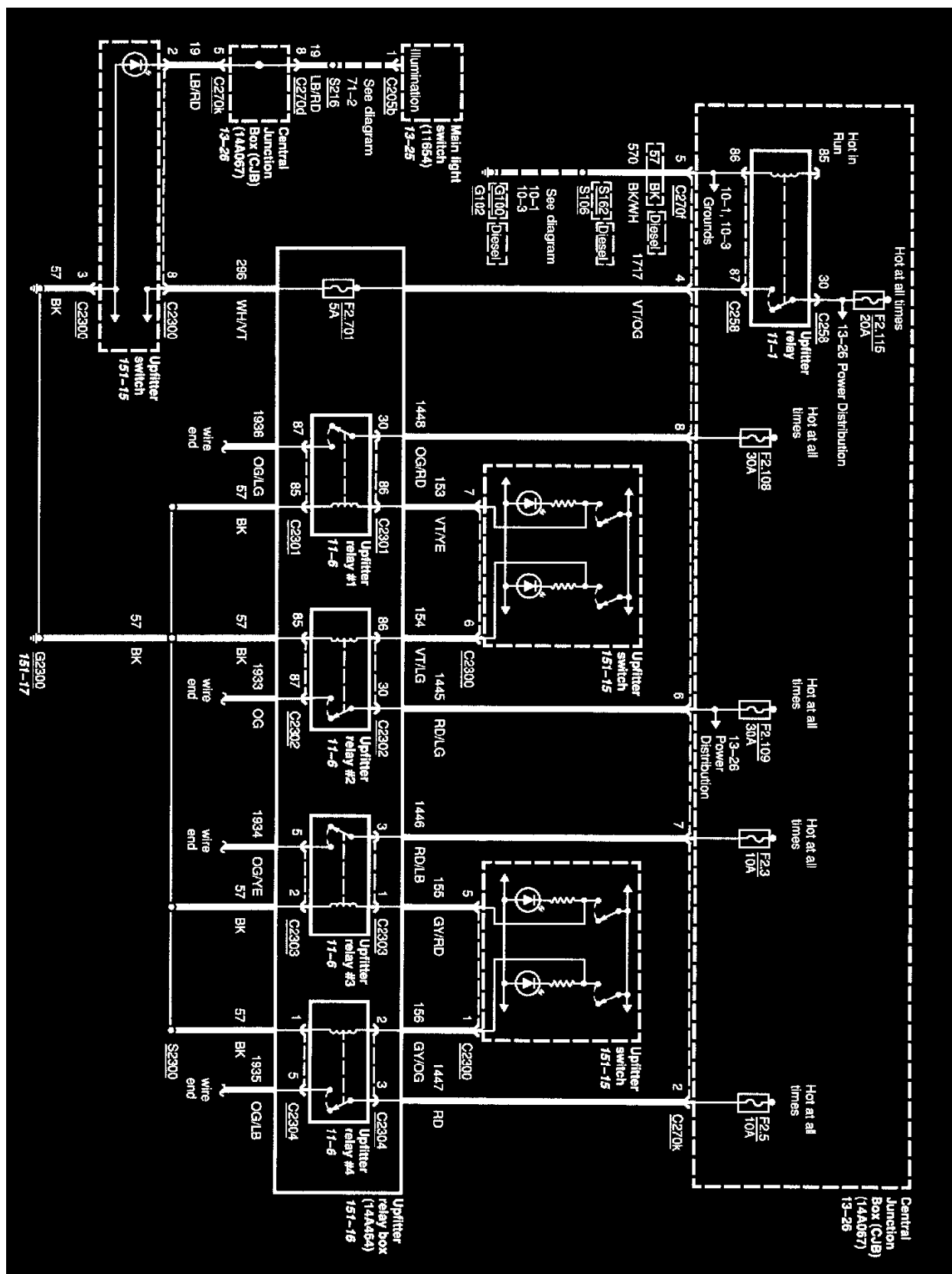
with steering wheel controls











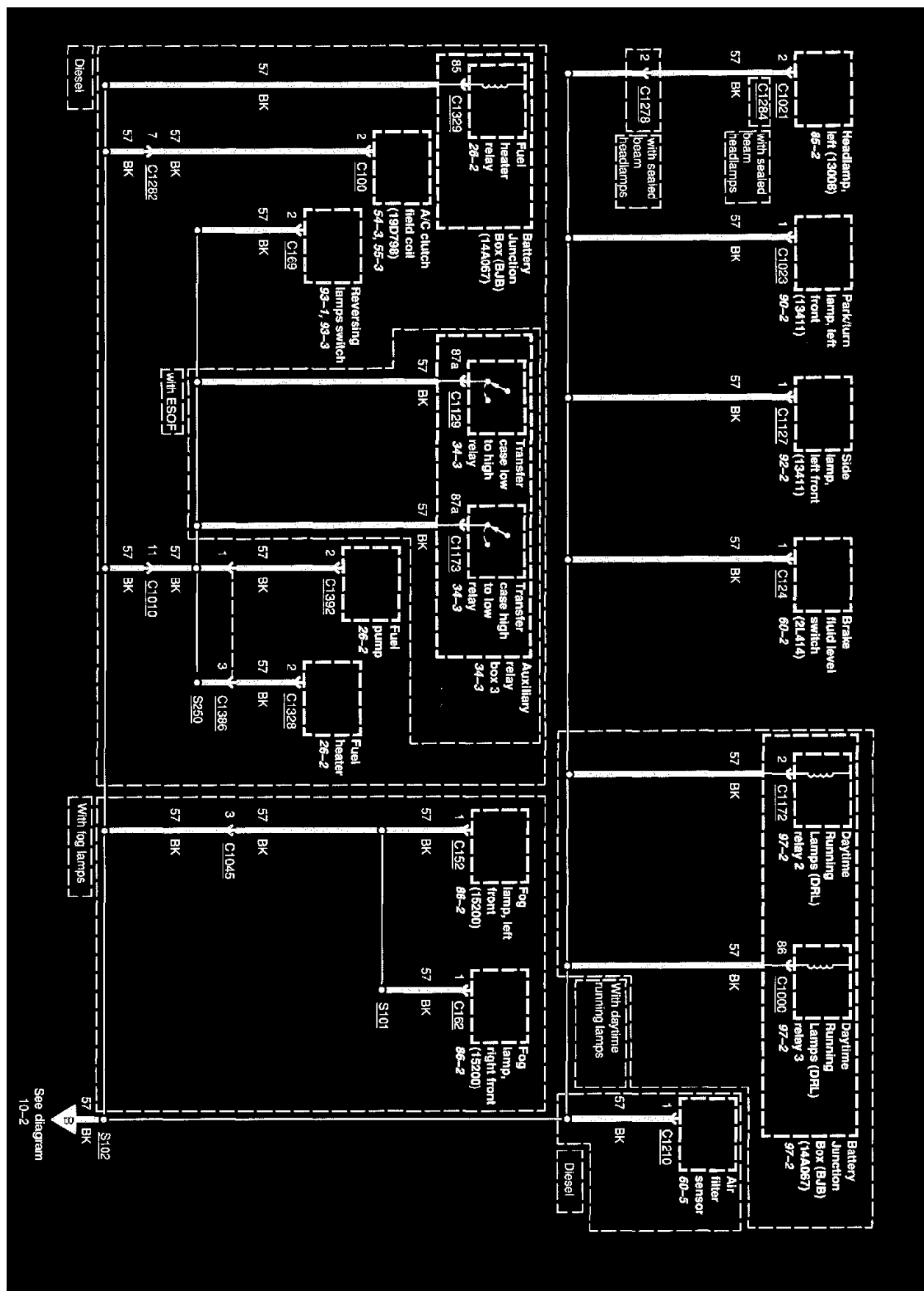
140-2

## G100

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.







10-3

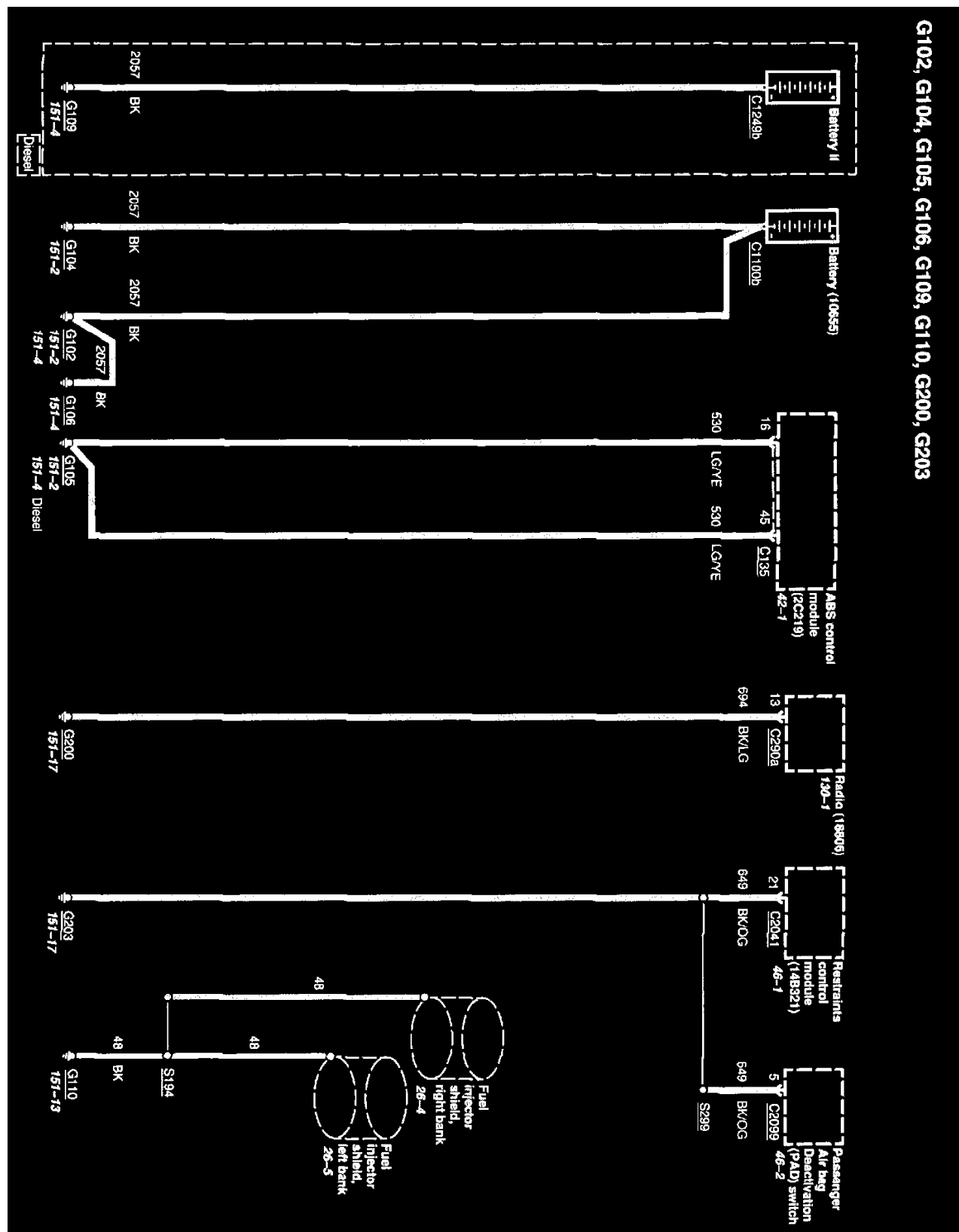
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

**G102**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

[illegible]

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

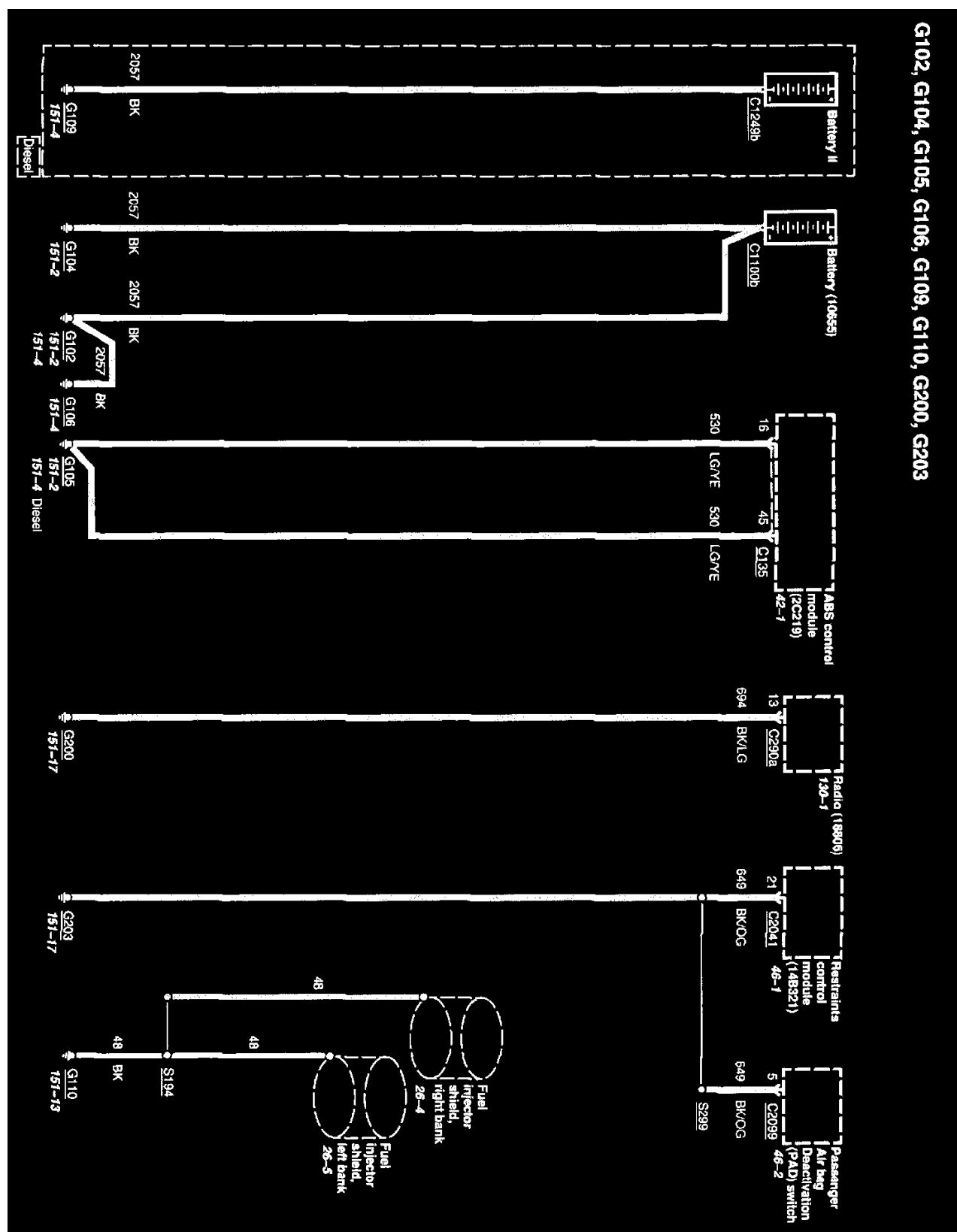
# G105

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do



# G106

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



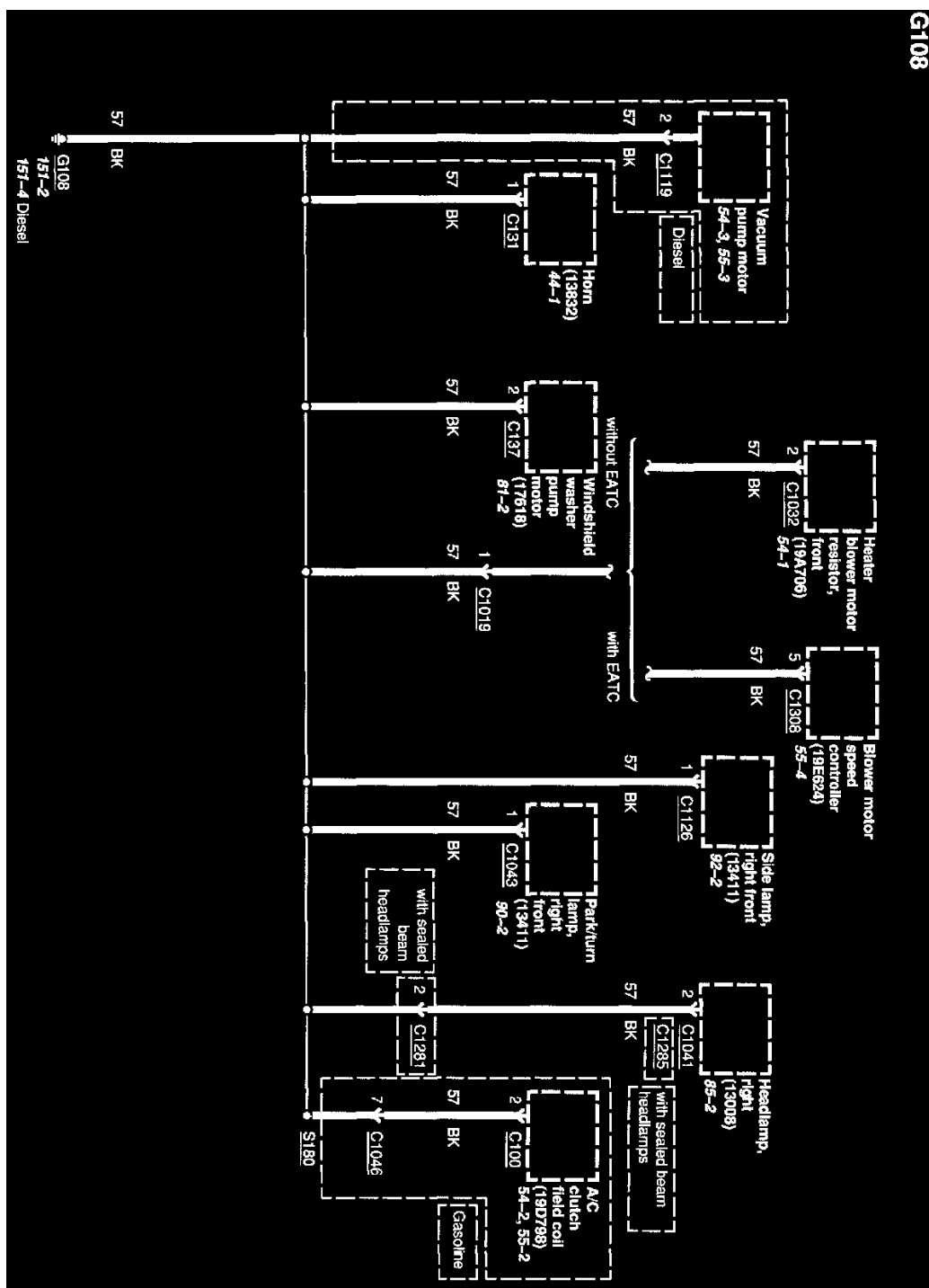
10-1

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**G108**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



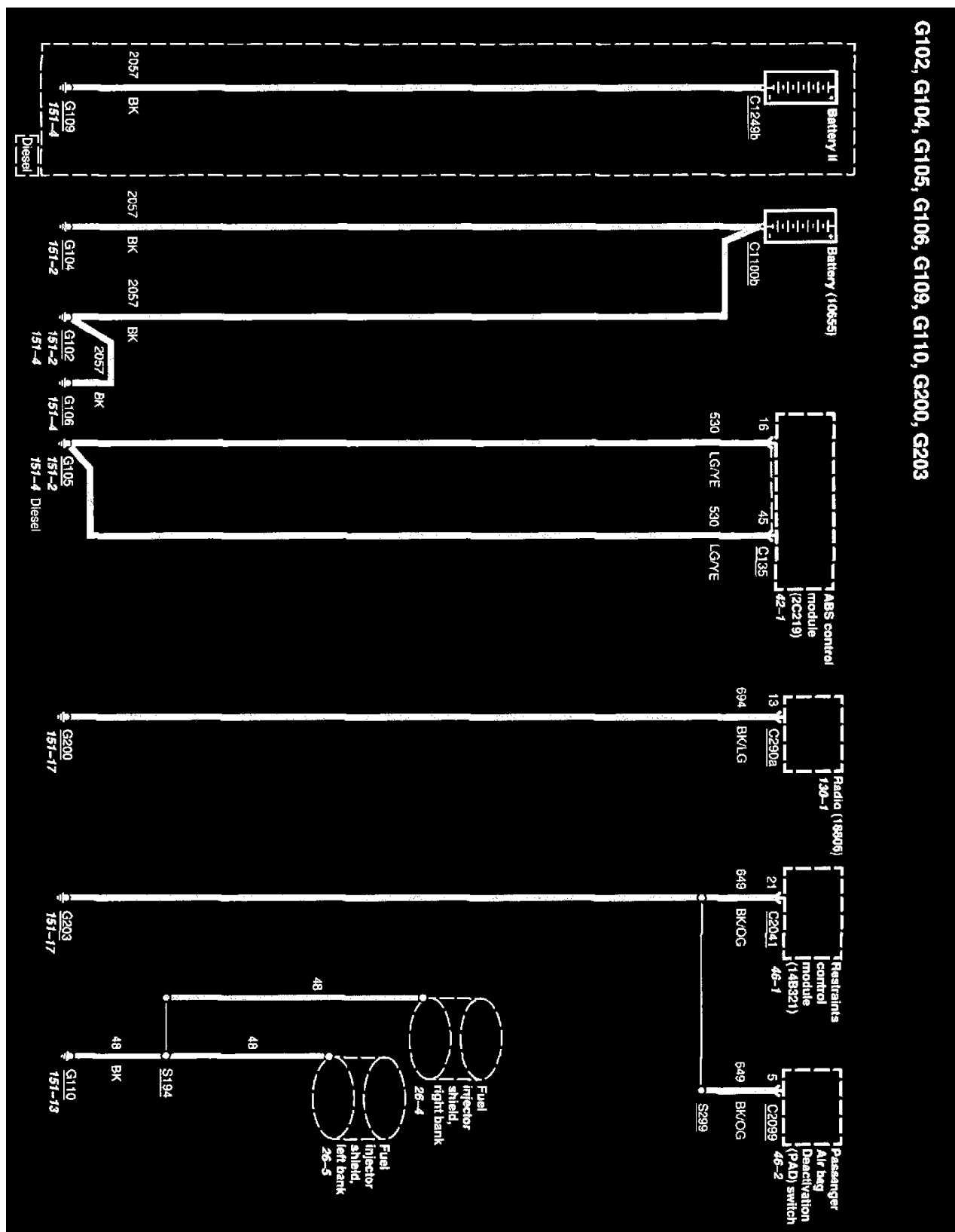
10-6

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**G109**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

**G102, G104, G105, G106, G109, G110, G200, G203**

10-1

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

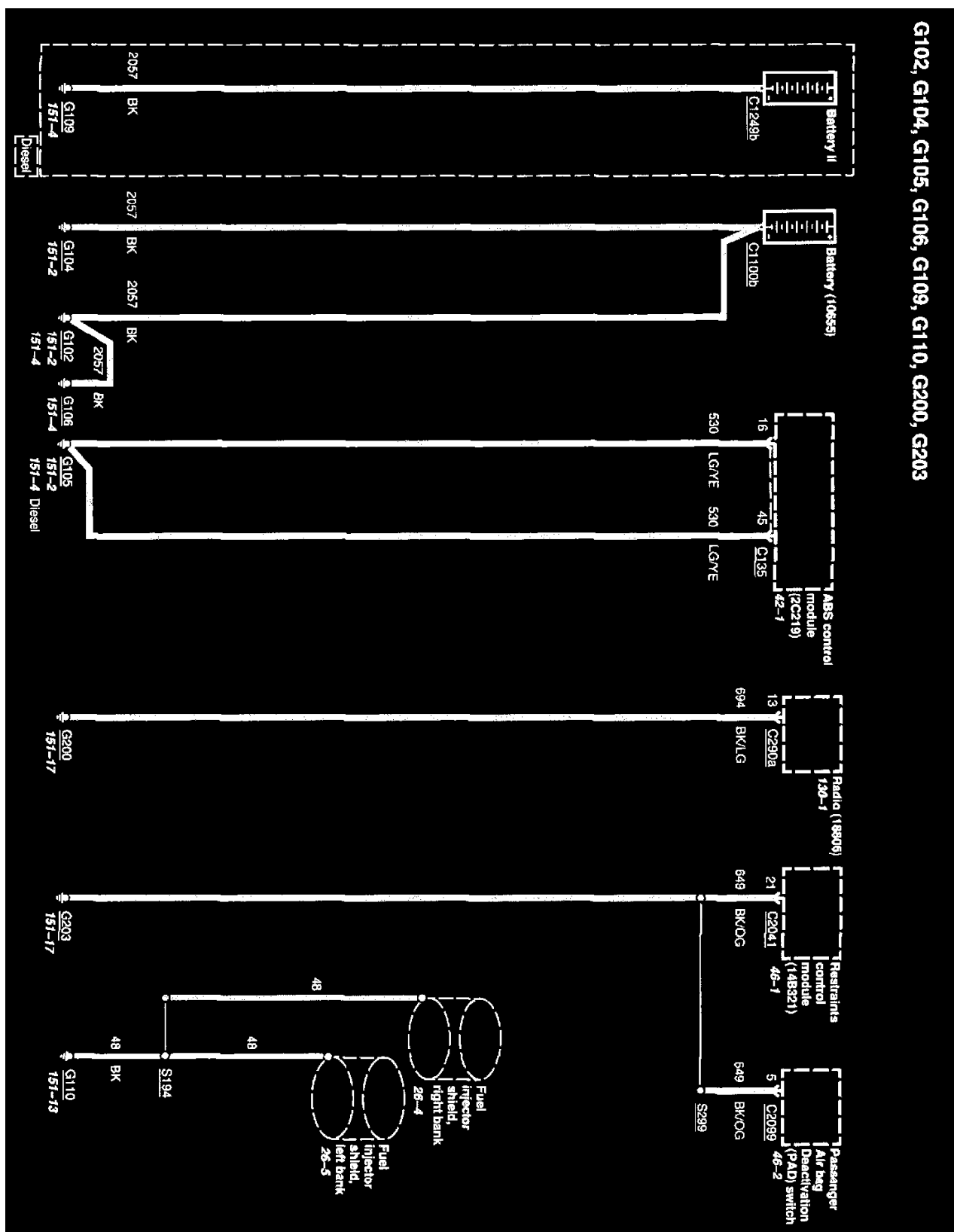
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**G110**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



# G102, G104, G105, G106, G109, G110, G200, G203



10-1

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

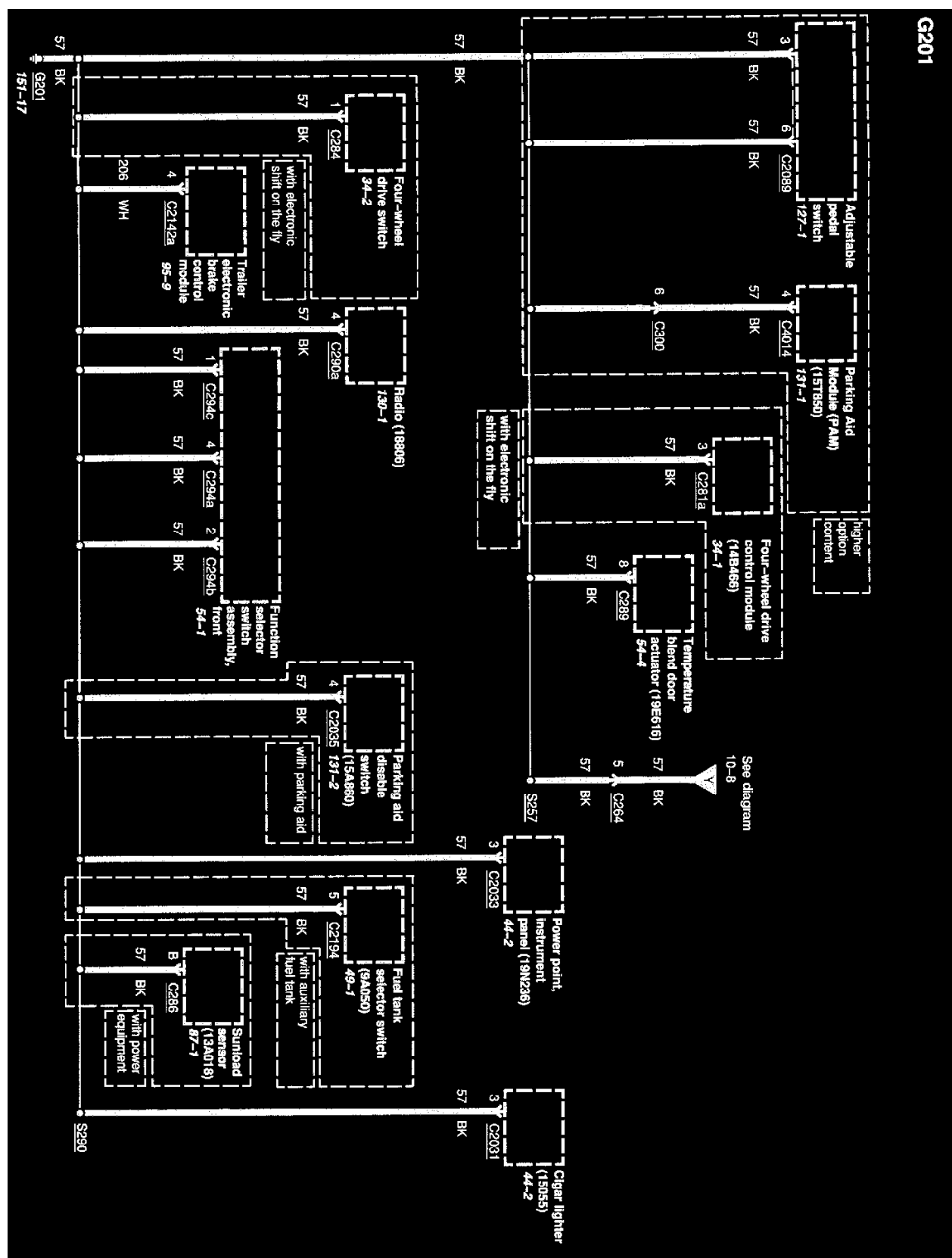
**G200**

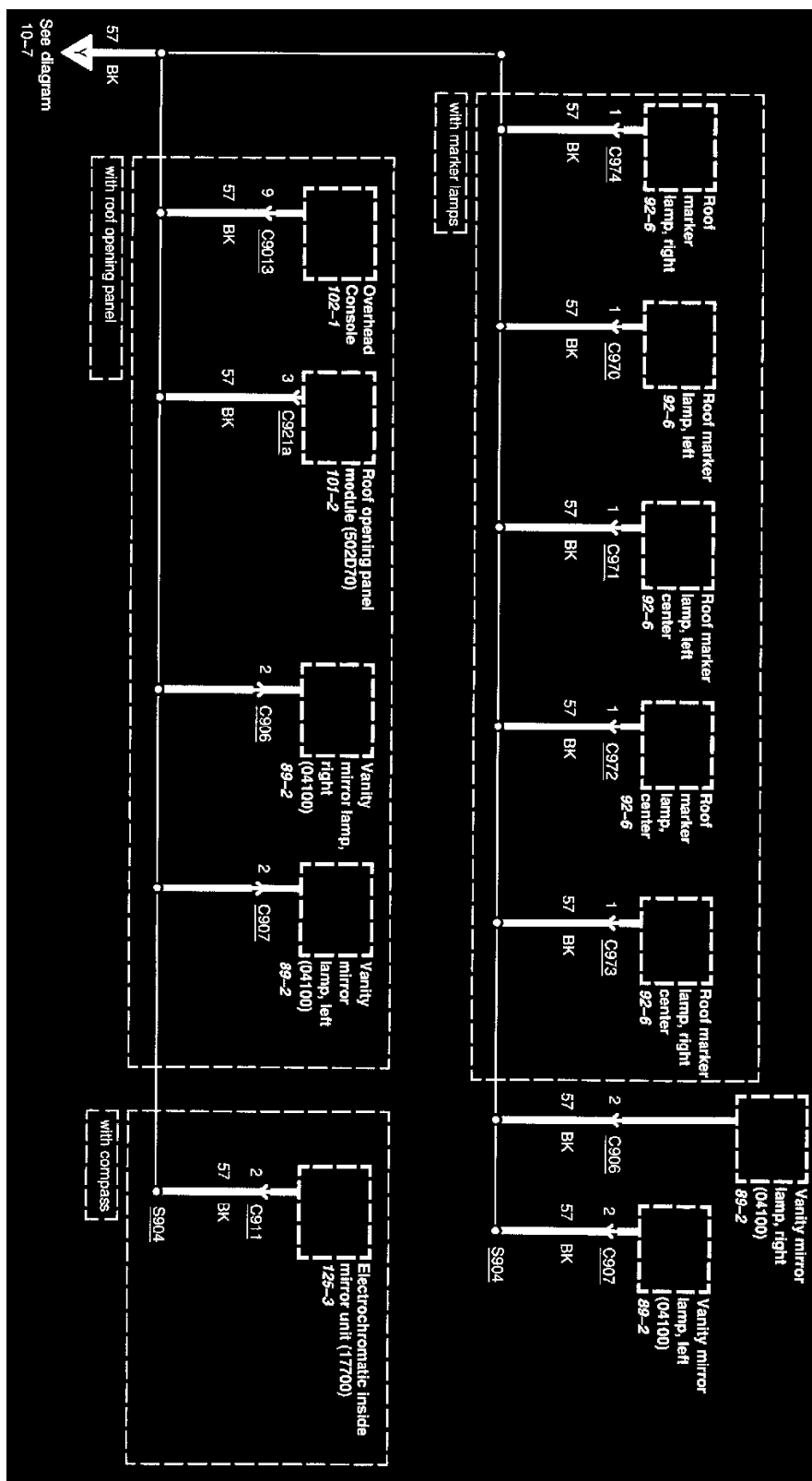
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do



# G201

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





10-8

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## G202

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

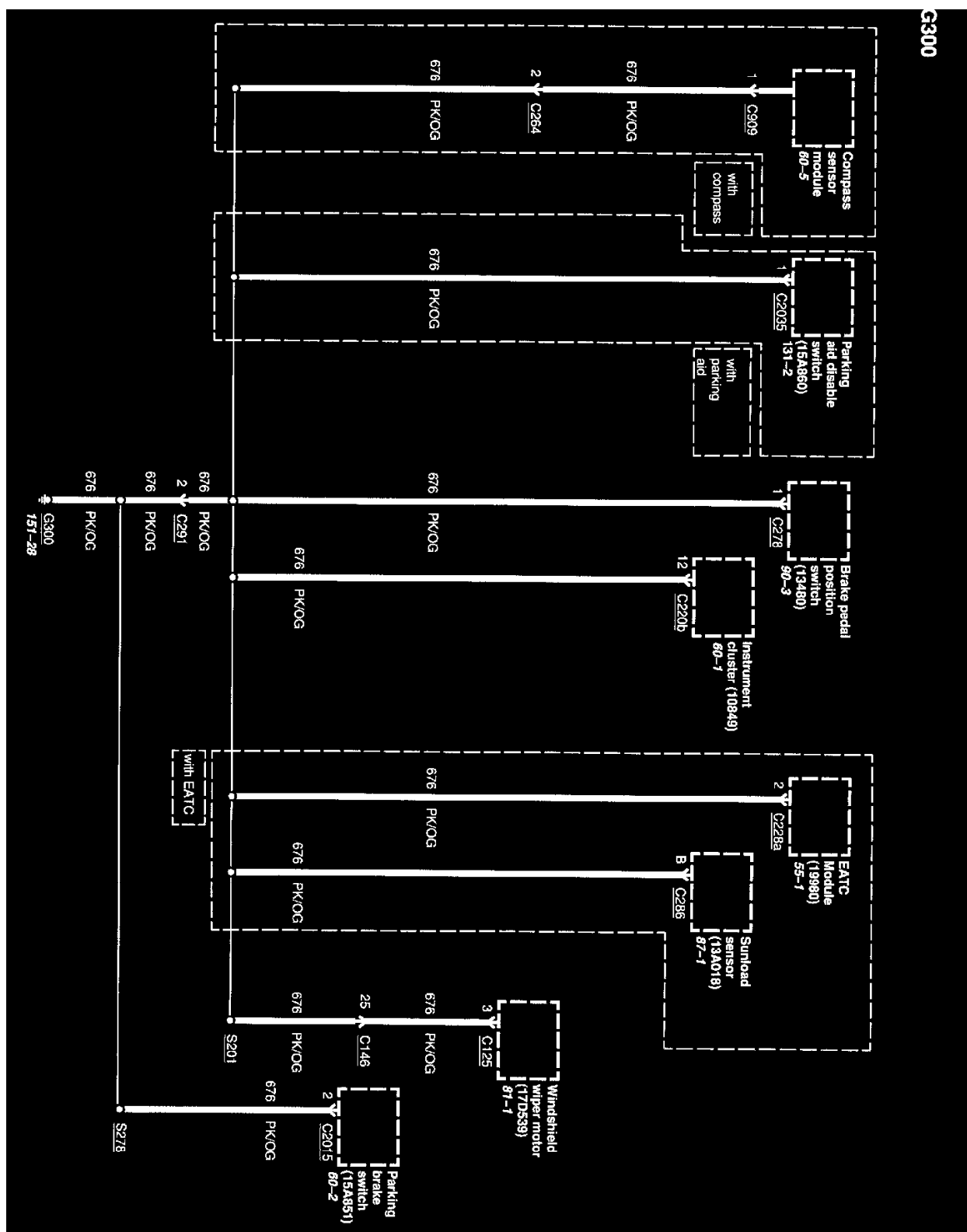


**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do



# G300

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



10-10

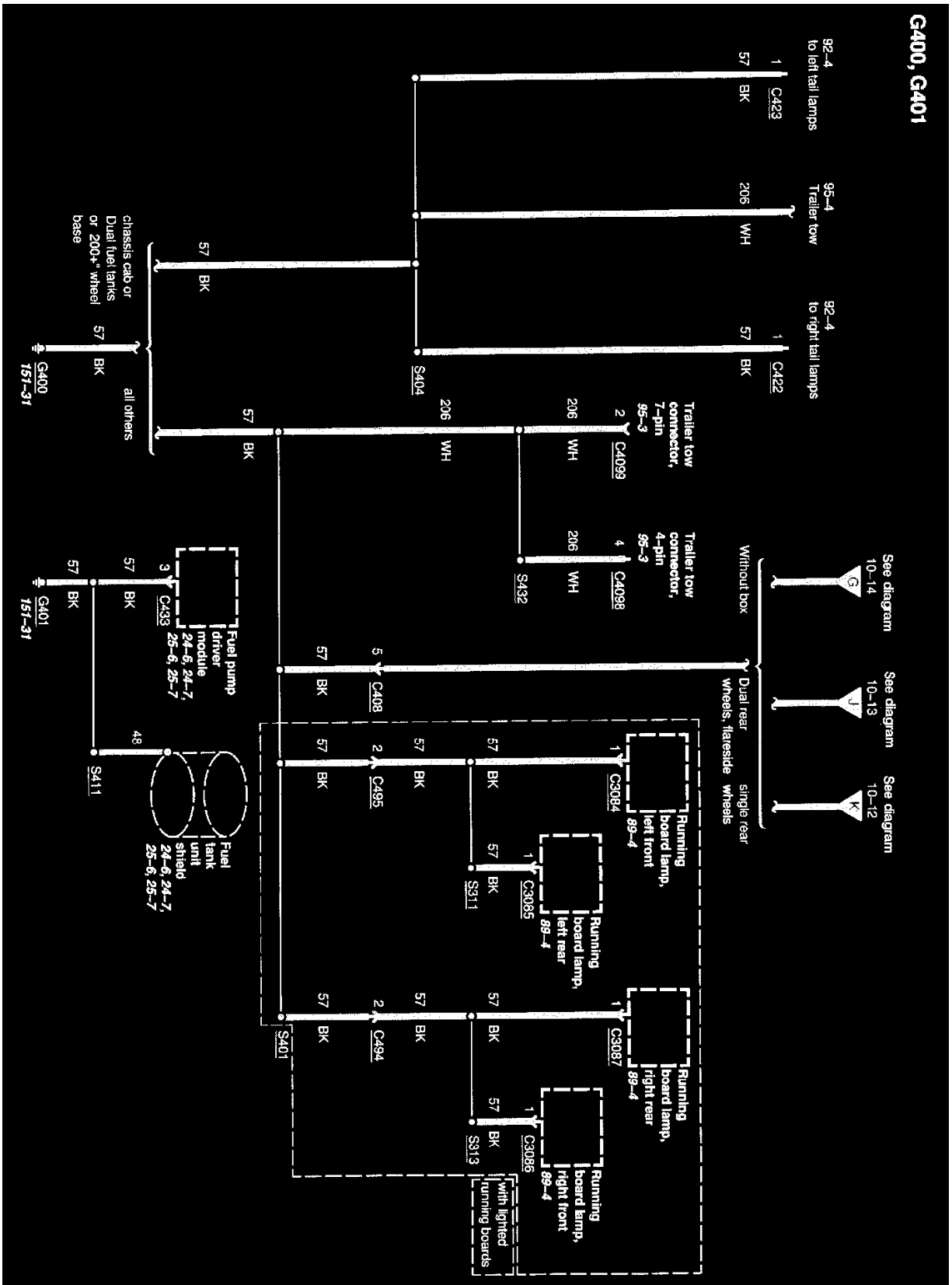
**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## G400

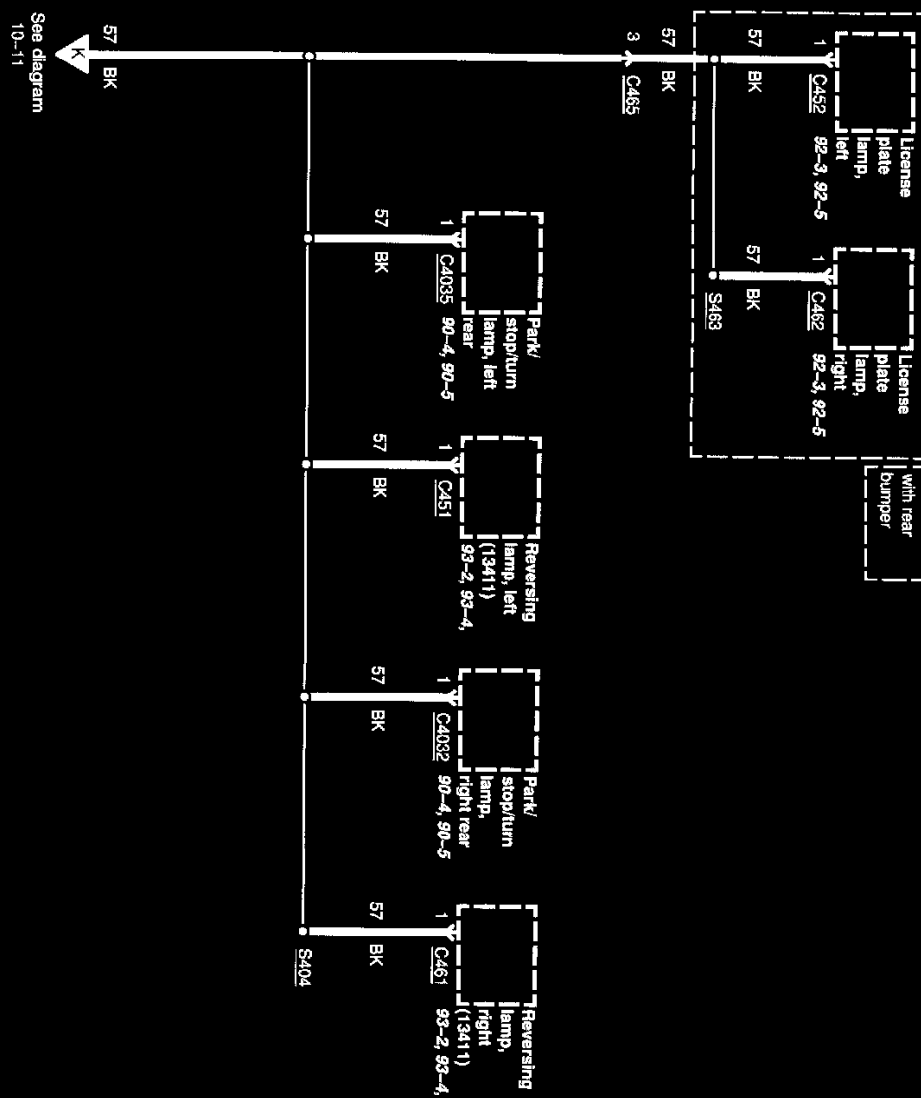
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

not apply to the vehicle model selected.

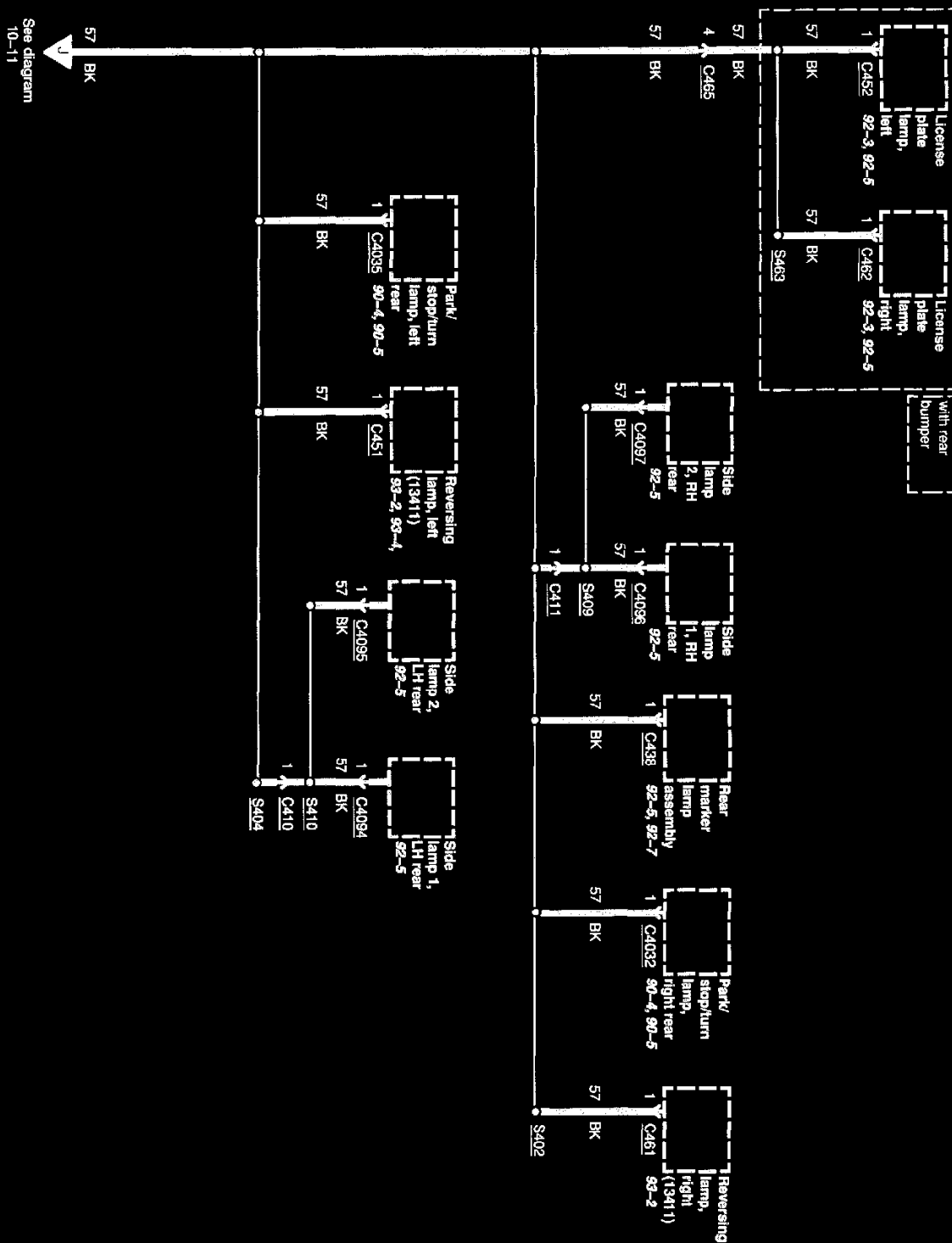


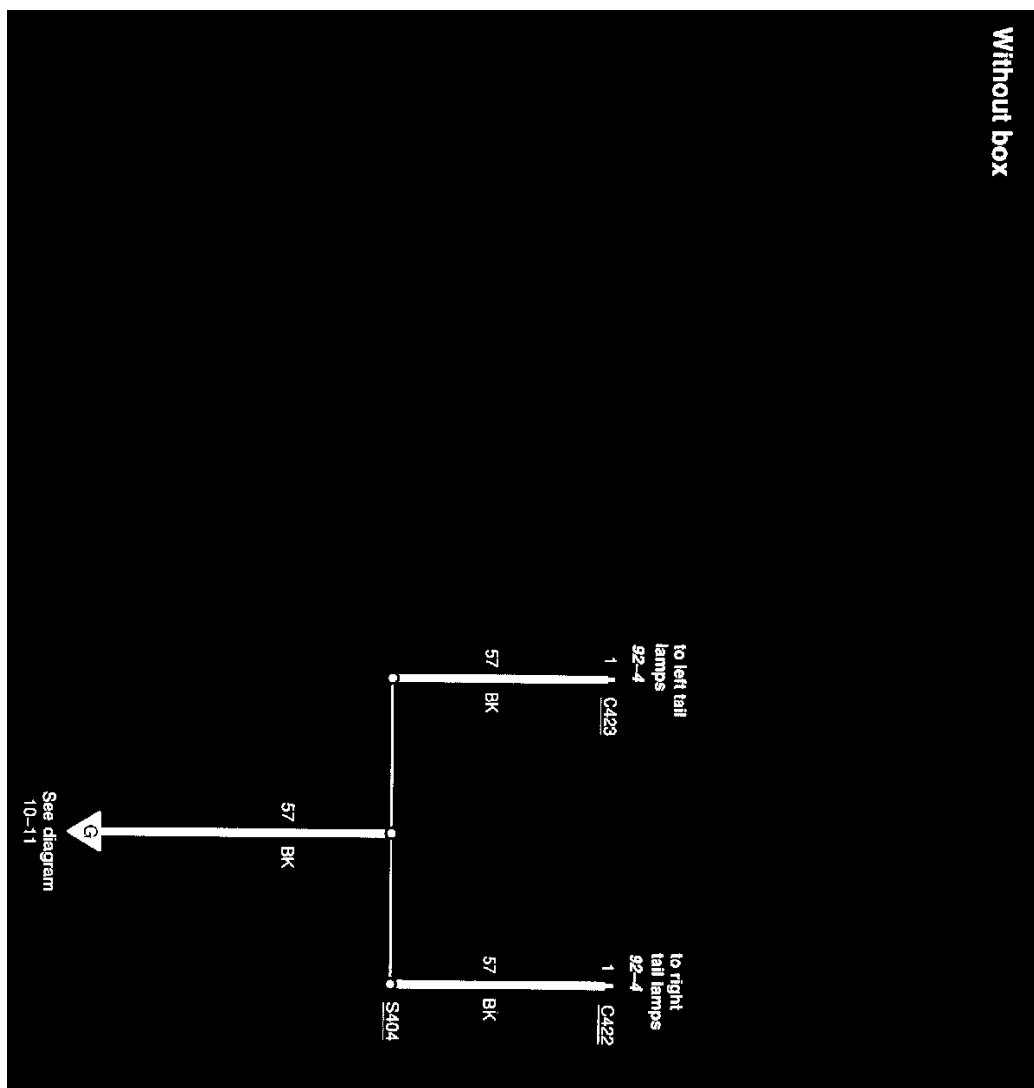


## Single rear wheels



# Dual rear wheels, flareside





10-14

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

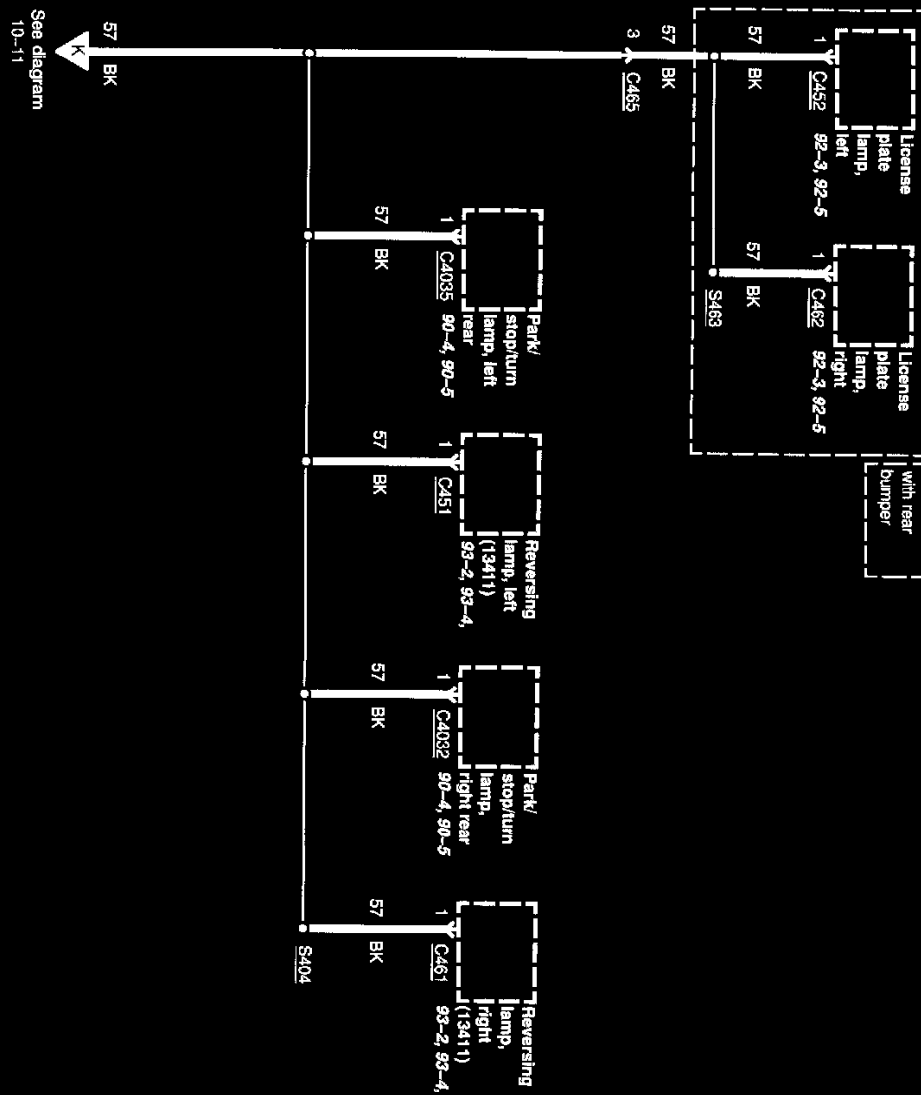
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**G401**

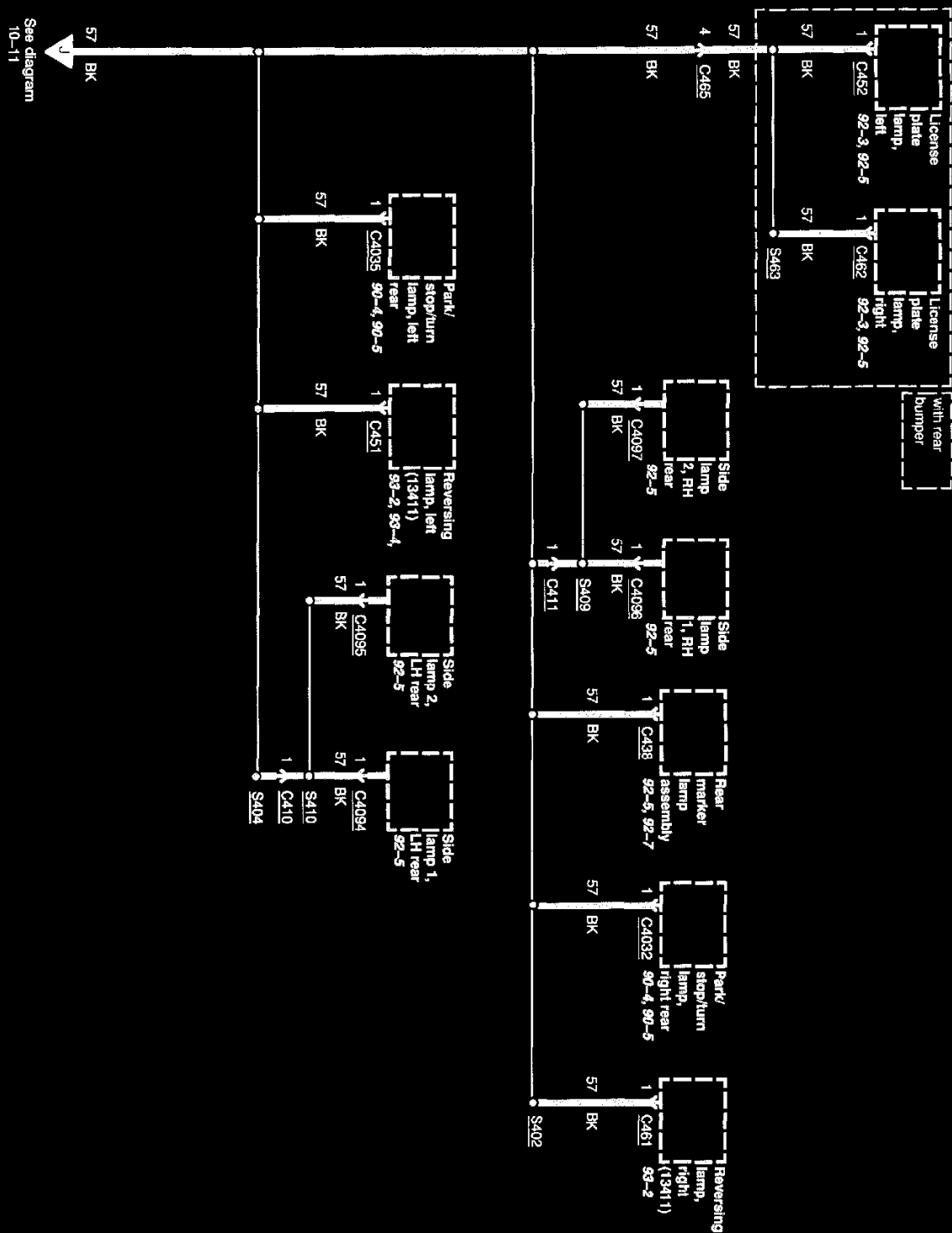
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

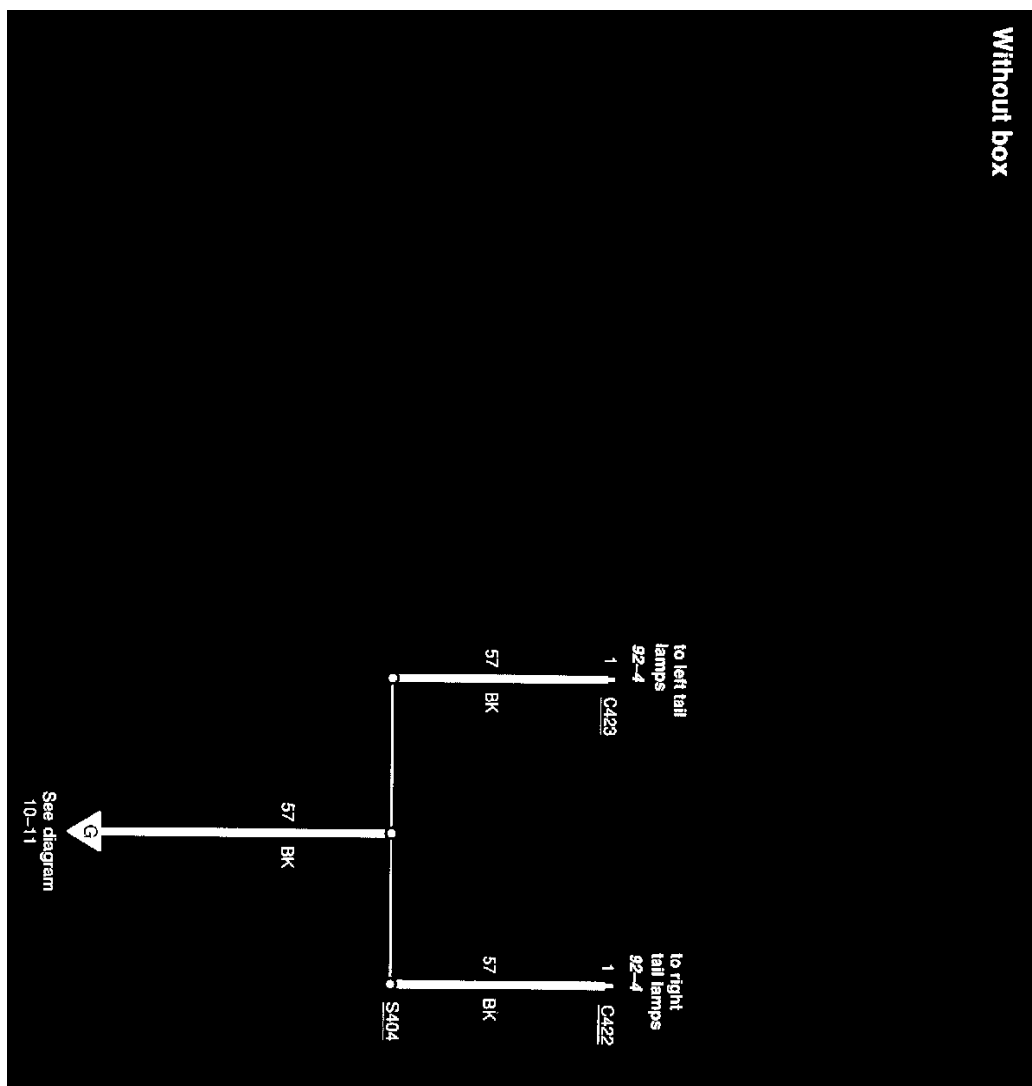
**10-11**

## Single rear wheels



# Dual rear wheels, flareside





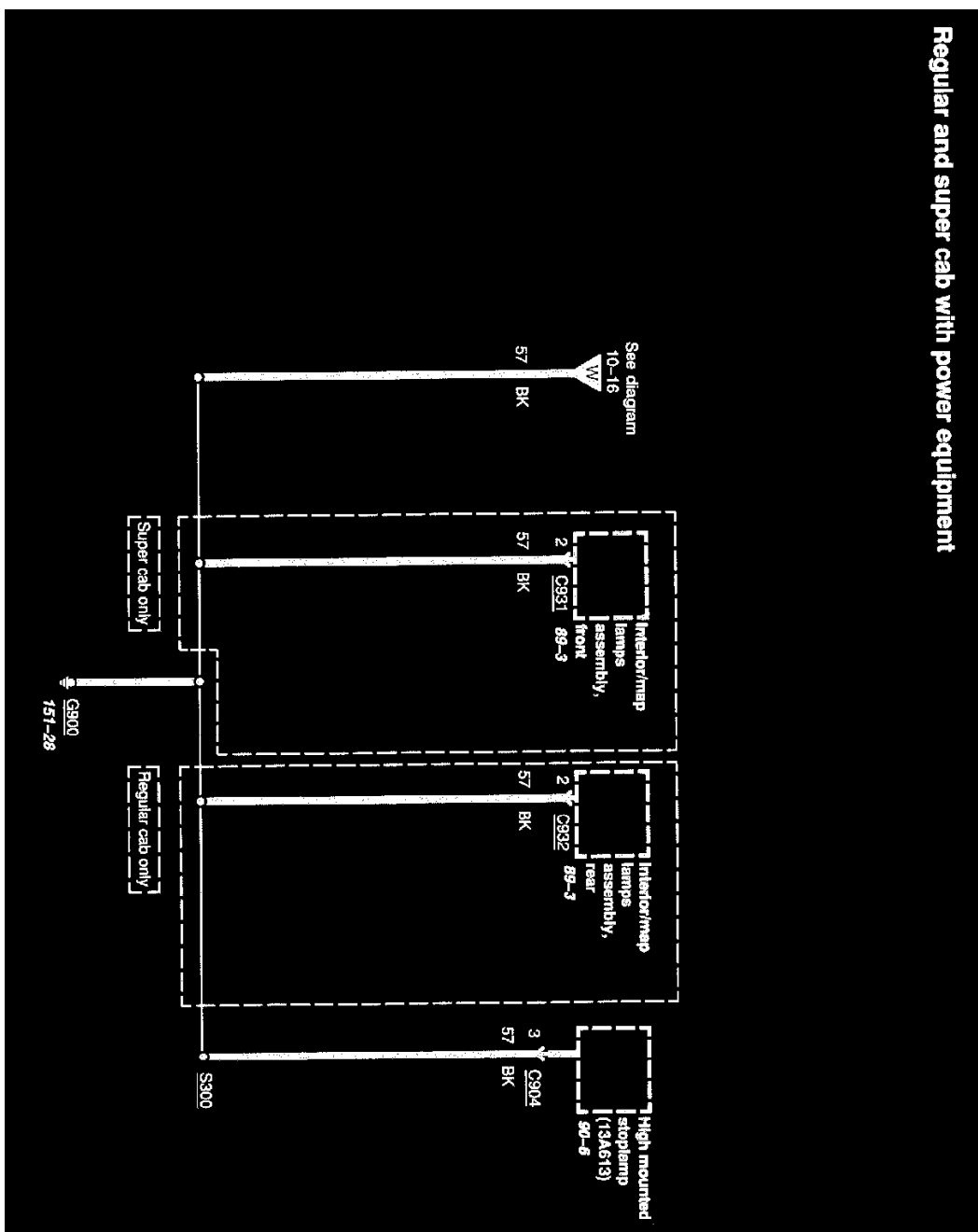
10-14

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

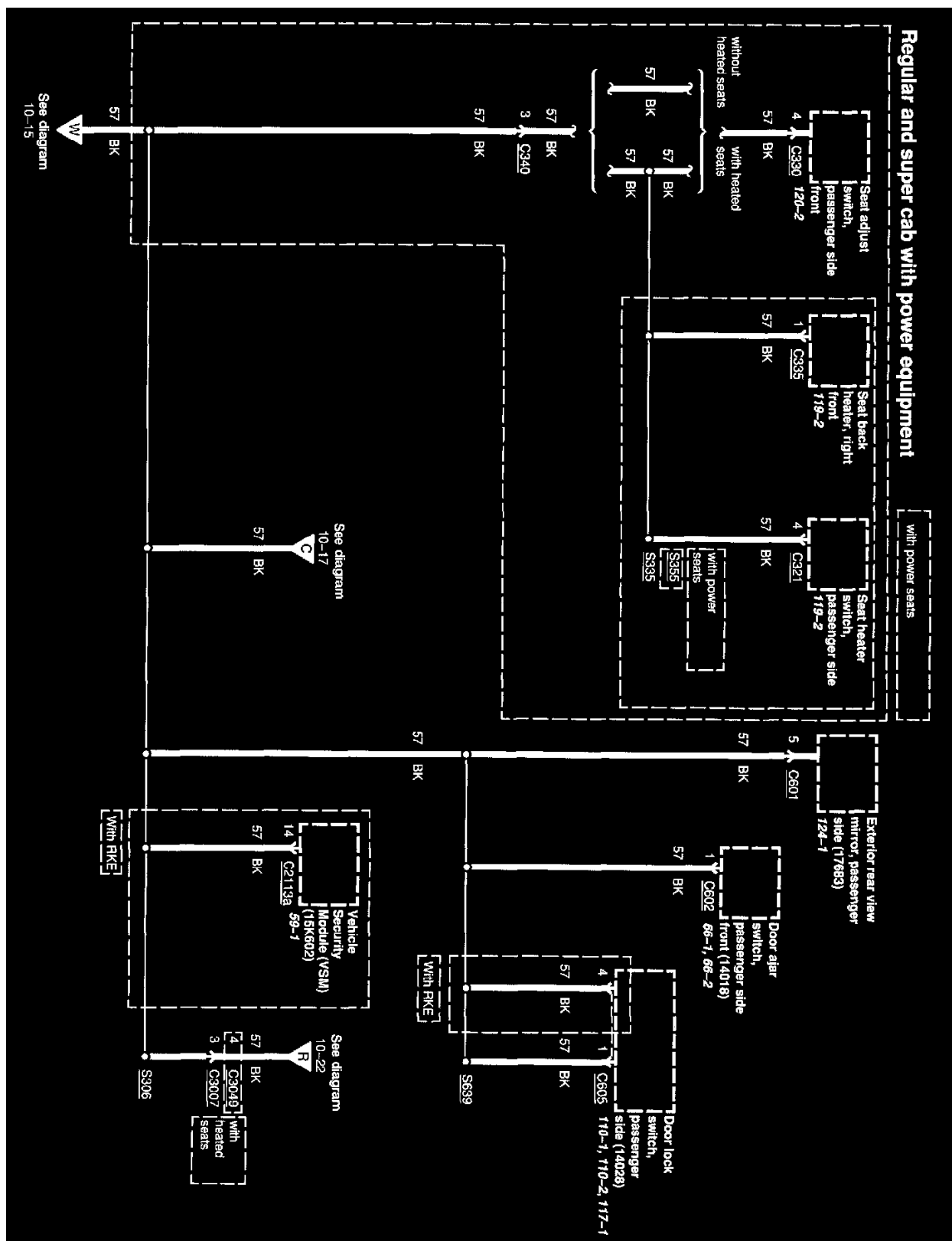
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**G900**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

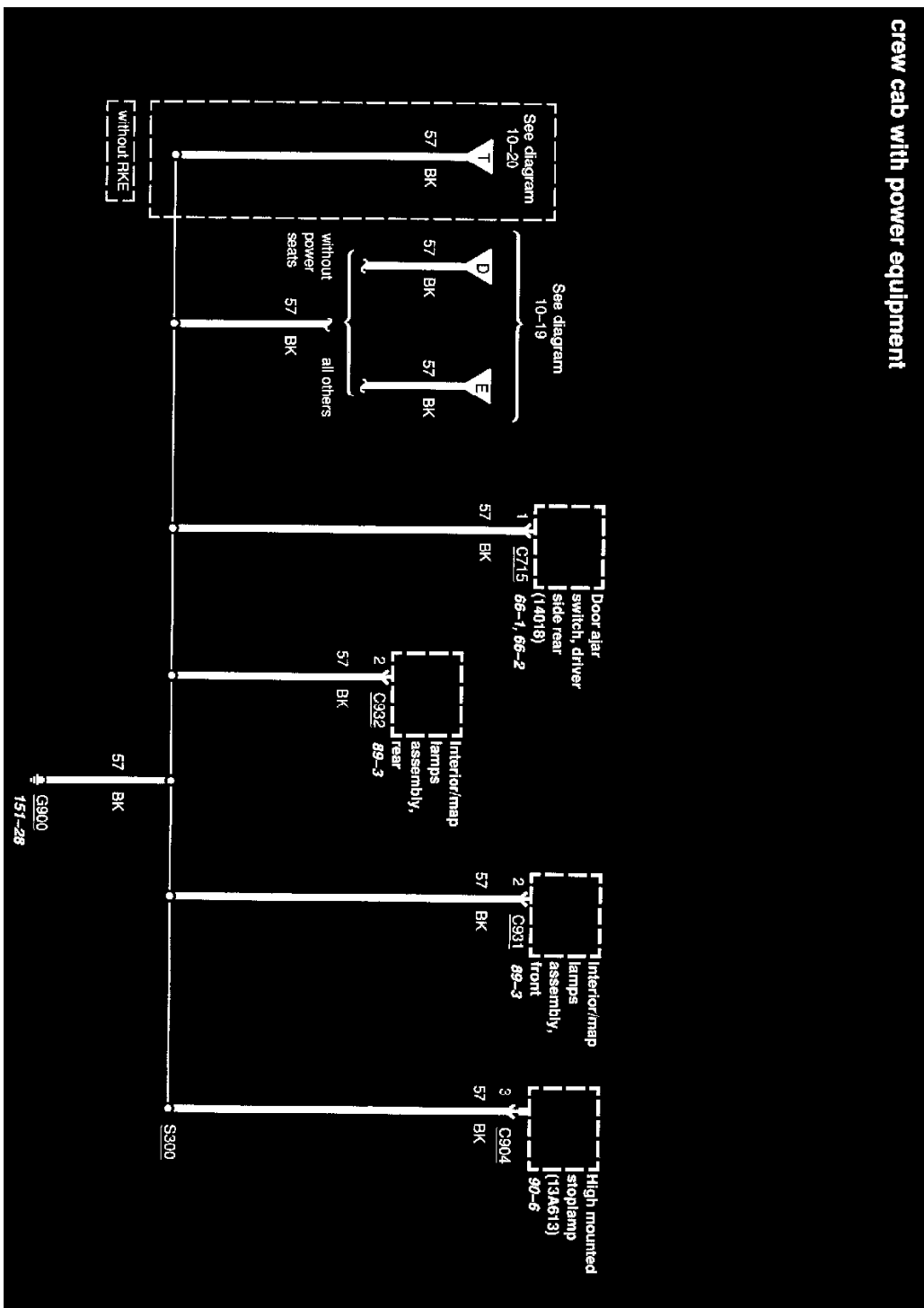
**Regular and super cab with power equipment**





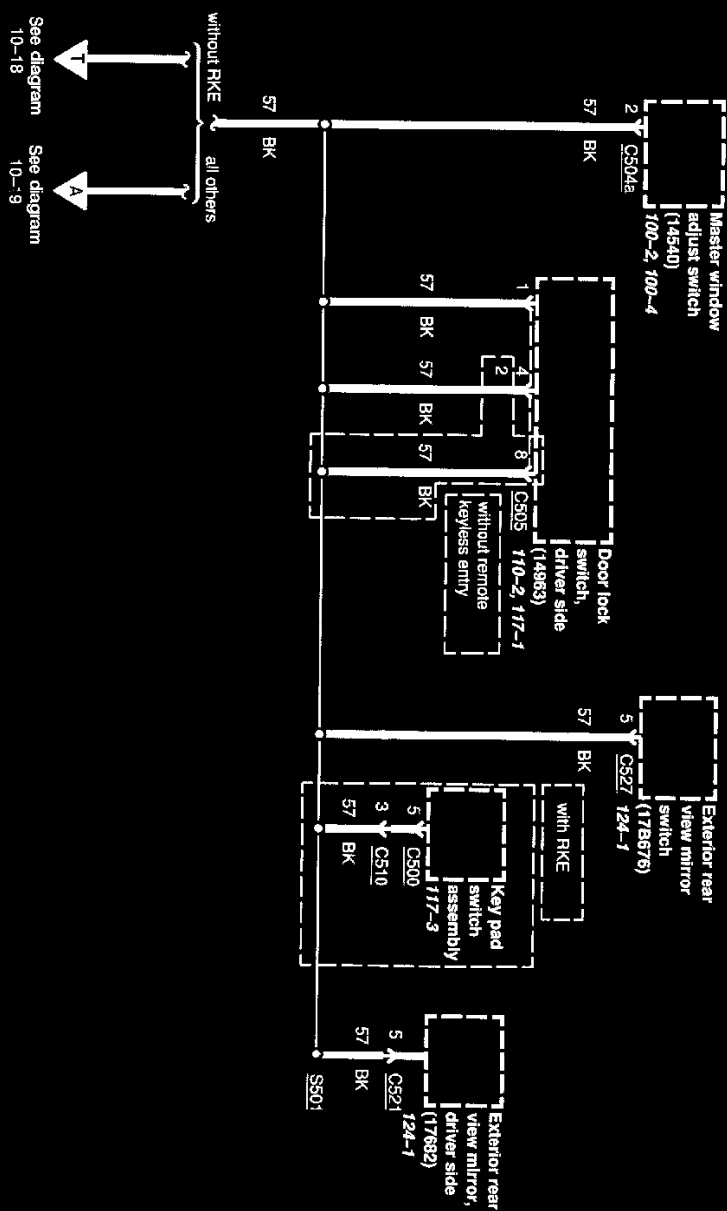
See diagram  
10-16

## crew cab with power equipment

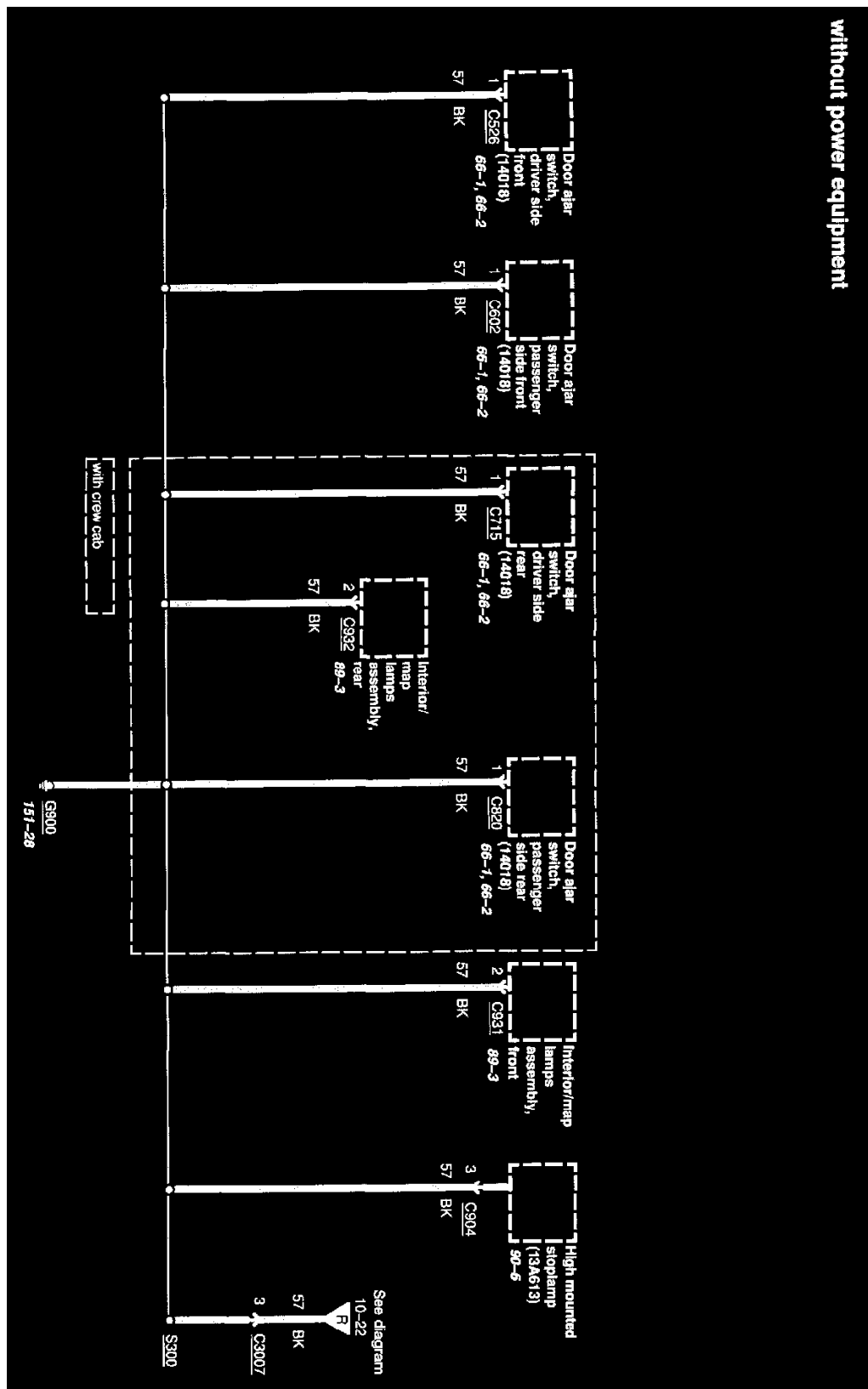


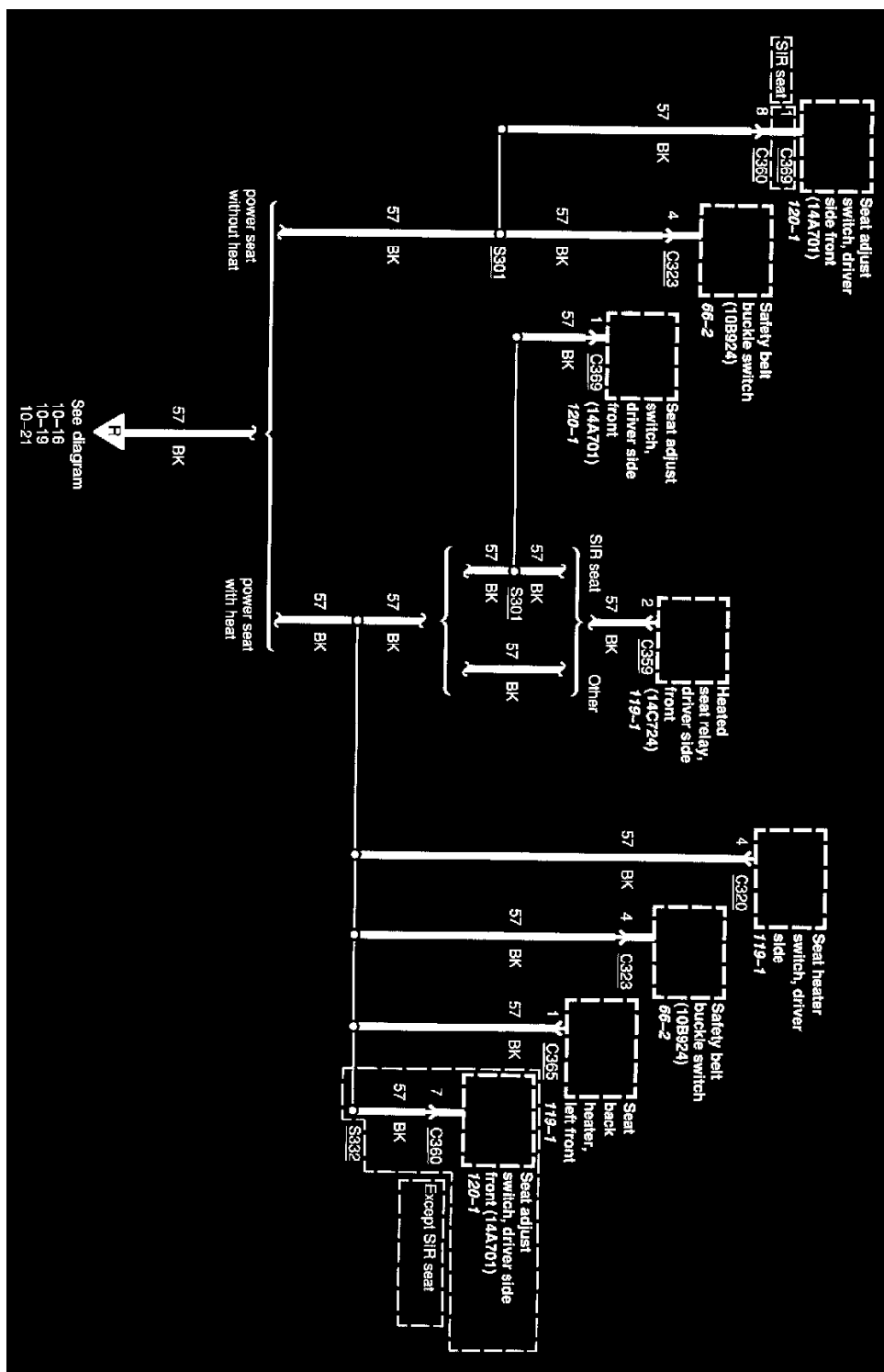
**10-19**

## crew cab with power equipment



## without power equipment





10-22

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Wiring Diagram Index

**PLEASE NOTE:** If a link on the index to a specific diagram listed therein is not provided, that means that the diagram in question does NOT apply to the vehicle model selected.

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| Battery | 13-1, 13-2 | F2.5  | 13-26        |
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| F1.2    | 13-24      | F2.6  | 13-5         |
| F1.3    | 13-23      | F2.7  | 13-8, 13-25  |
| F1.4    | 13-23      | F2.8  | 13-4         |
| F1.6    | 13-23      | F2.9  | 13-4         |
| F1.5    | 13-24      | F2.10 | 13-3         |
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| F2.3    | 13-26      | F2.29 | 13-15        |

Battery - Fuse 2.29



|        |       |                                 |            |
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| F2.34  | 13-10 | F2.112                          | 13-11      |
| F2.35  | 13-11 | F2.113                          | 13-4       |
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| F2.45  | 13-19 | Fusable link D                  | 13-1, 13-2 |
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| F2.106 | 13-11 | Main light switch               | 13-25      |
| F2.107 | 13-4  | Microprocessor                  | 13-25      |

Fuse 2.30 - Microprocessor

13-1

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

**13-1**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



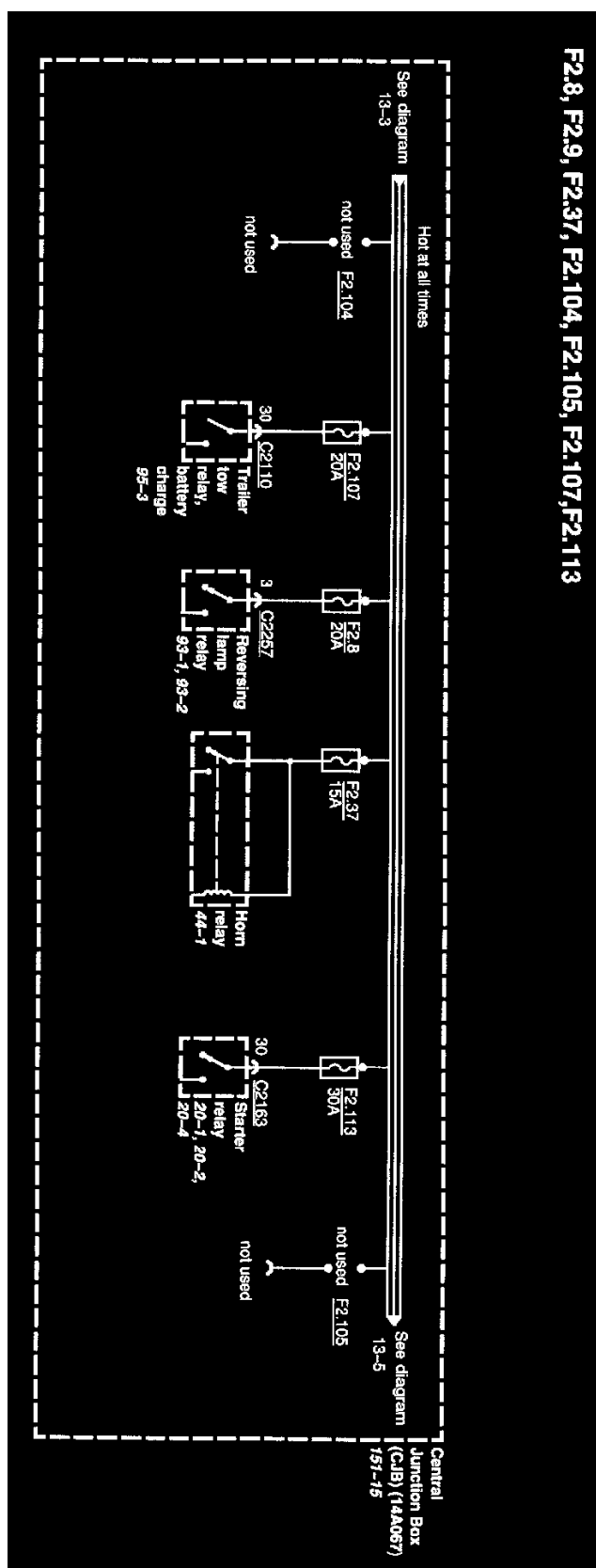
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

## 13-4

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-5

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-3

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 13-5

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



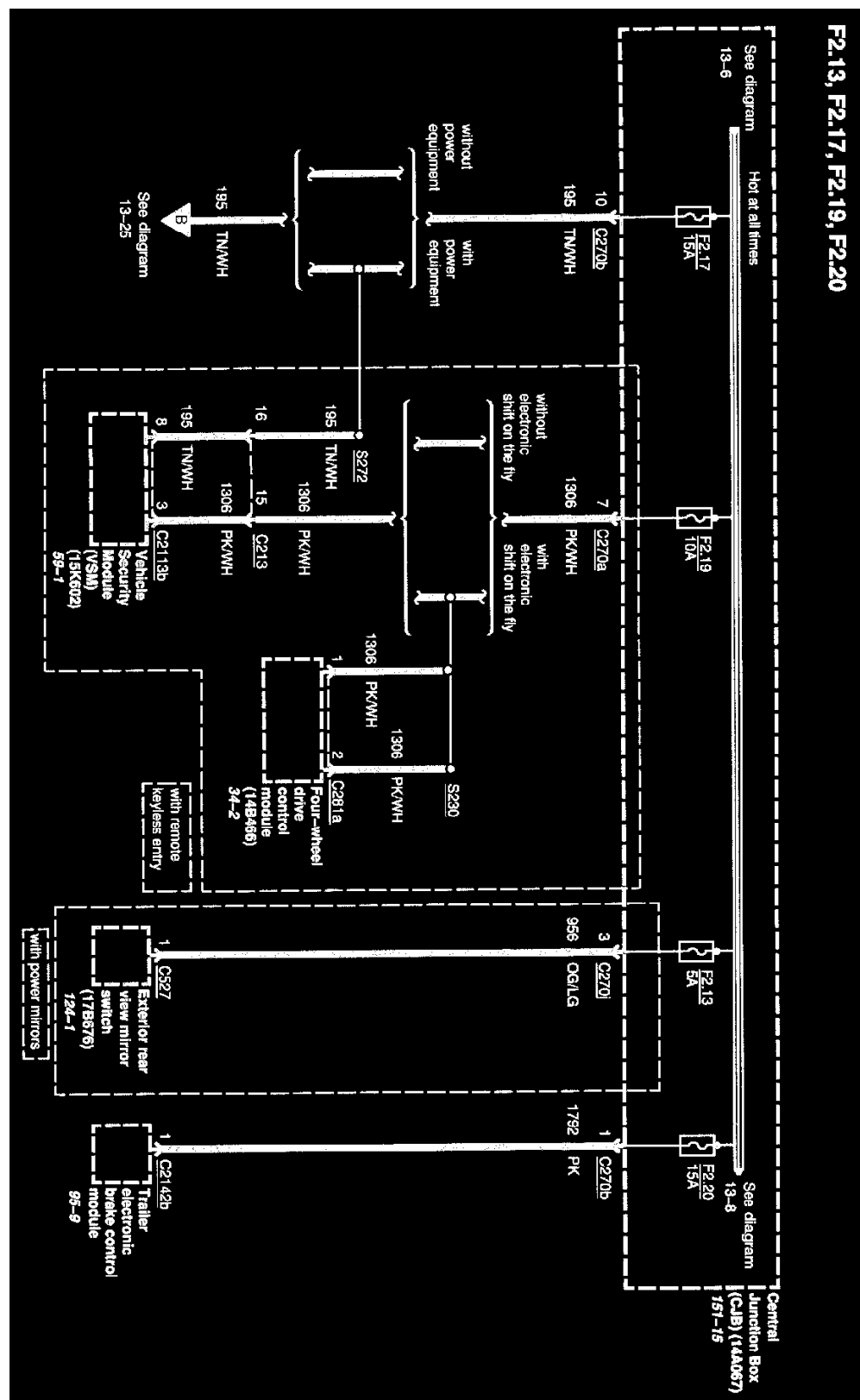
**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See:

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

**13-7**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-8

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-6

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

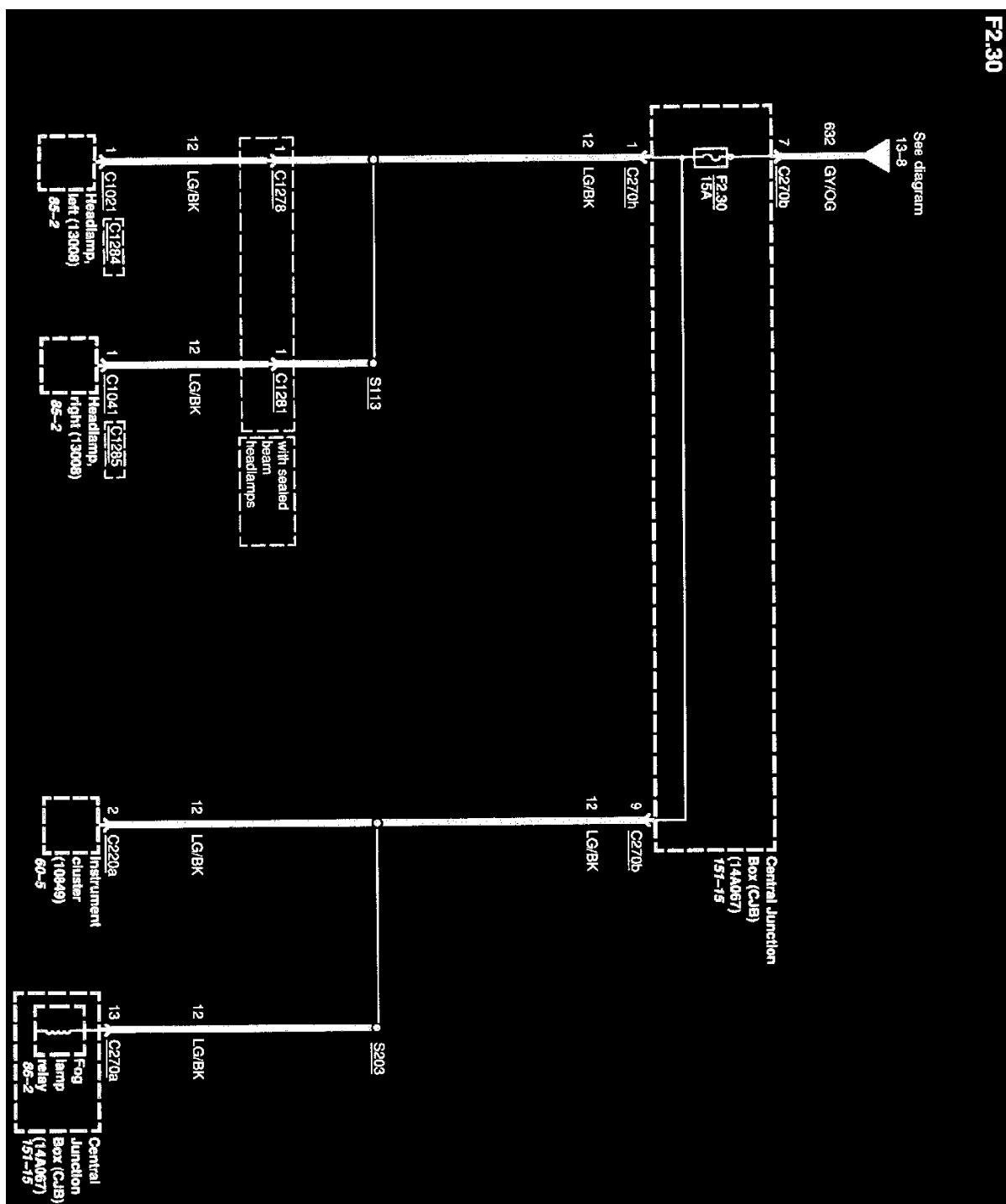
## 13-8

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**13-9**

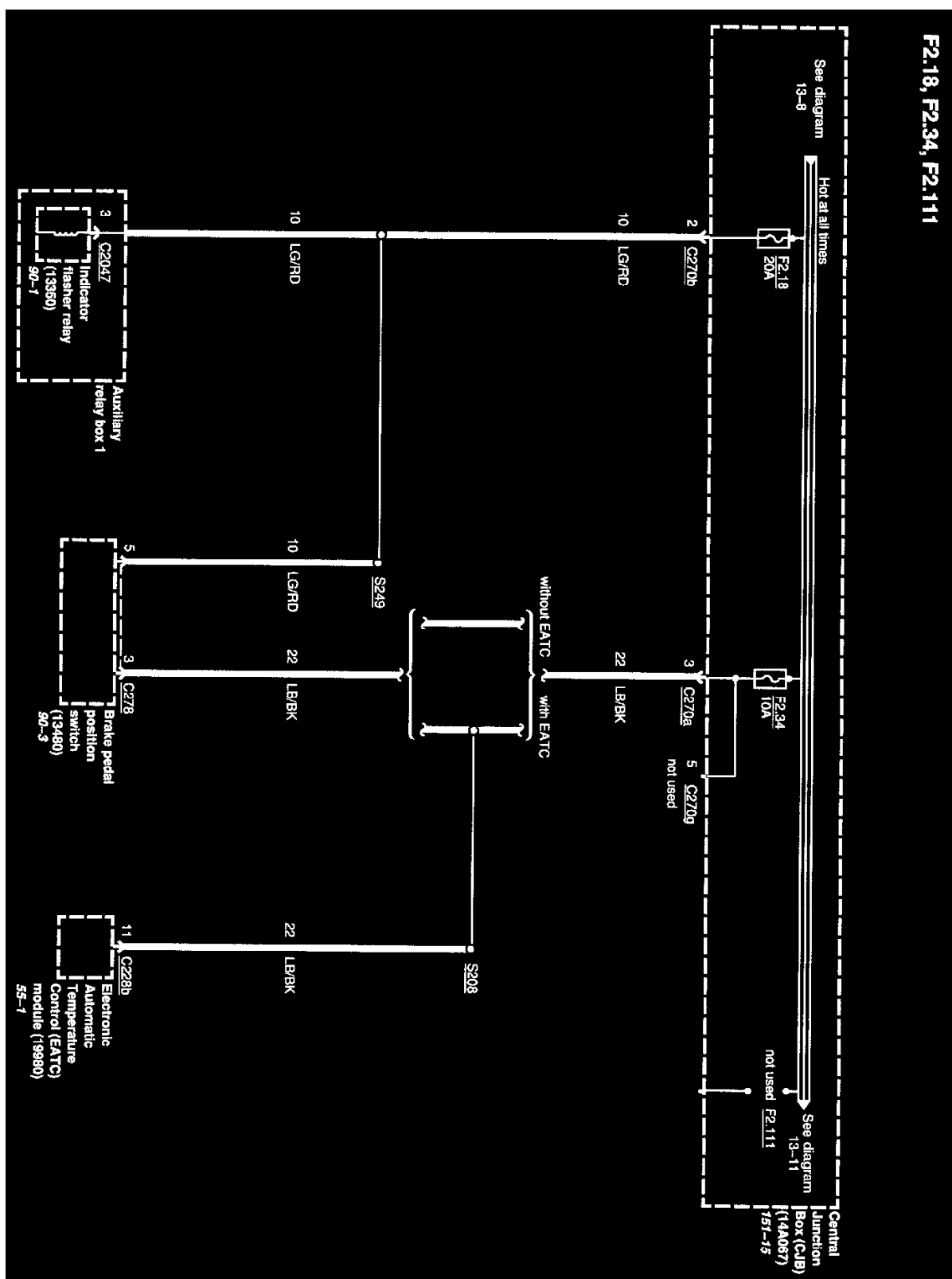
Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-8

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.  
See: Components/Component Location Views

# 13-10

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



13-10

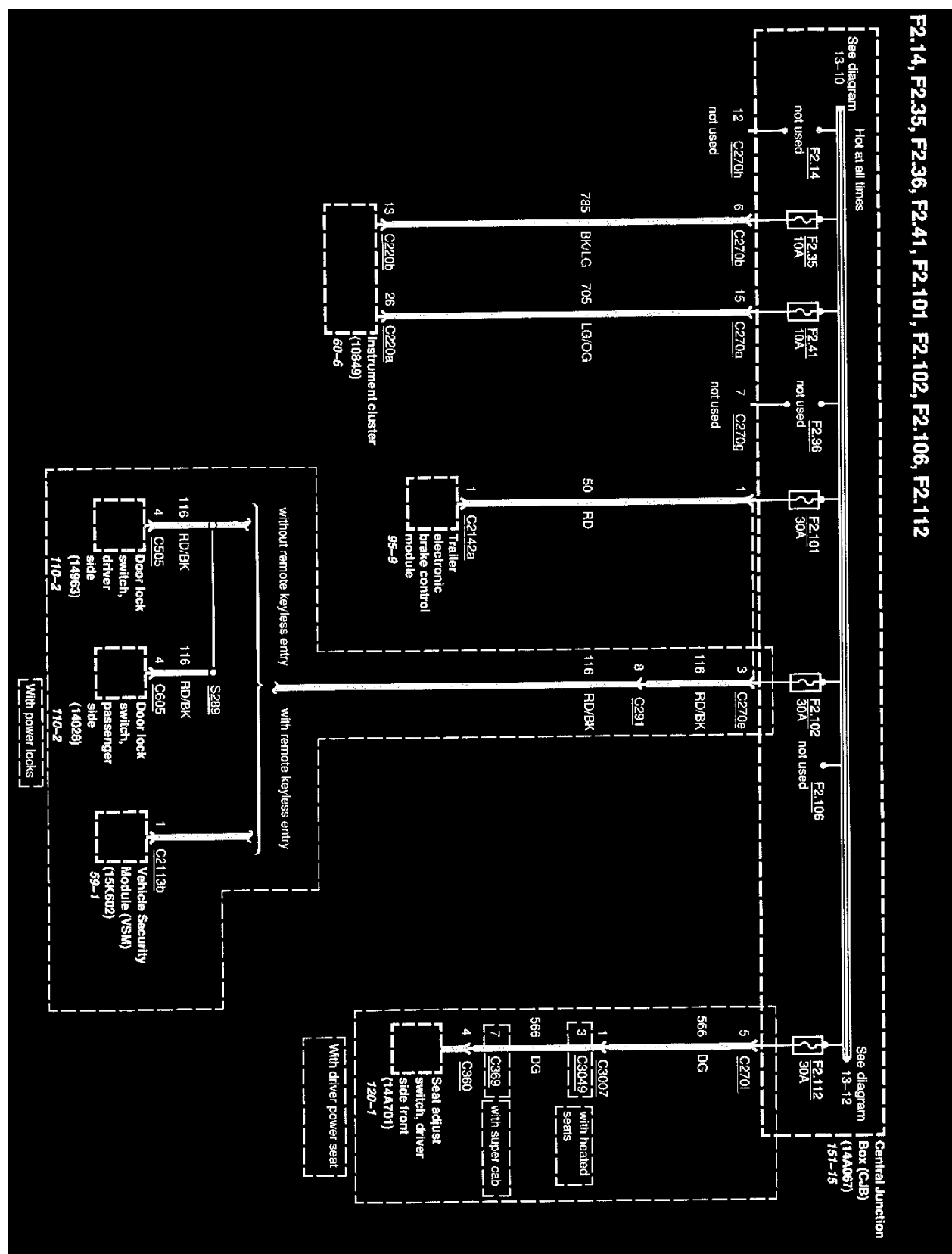
Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-11

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-9

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**13-11**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-12

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-10

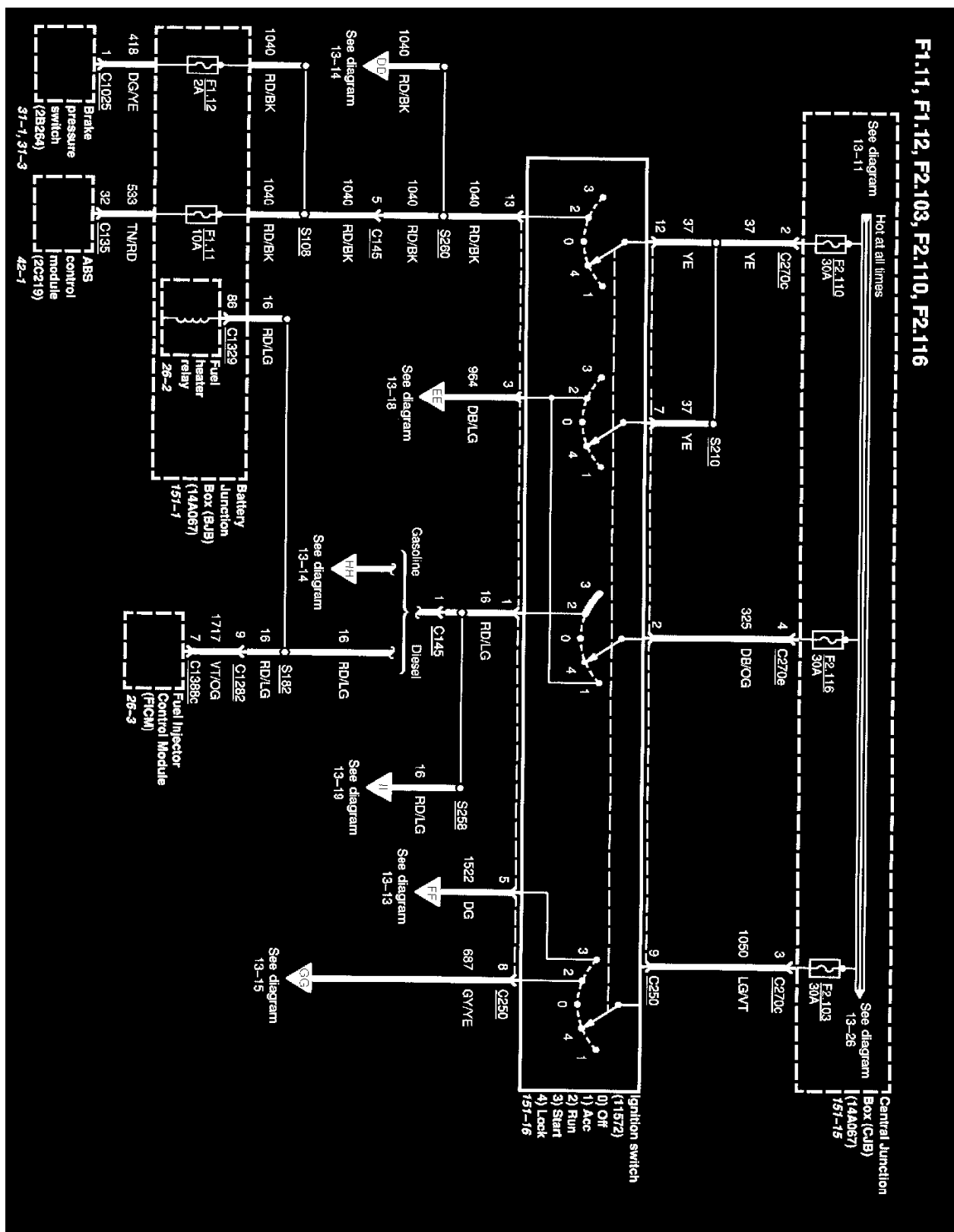
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 13-12

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

## F1.11, F1.12, F2.103, F2.110, F2.116



13-12

Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-13

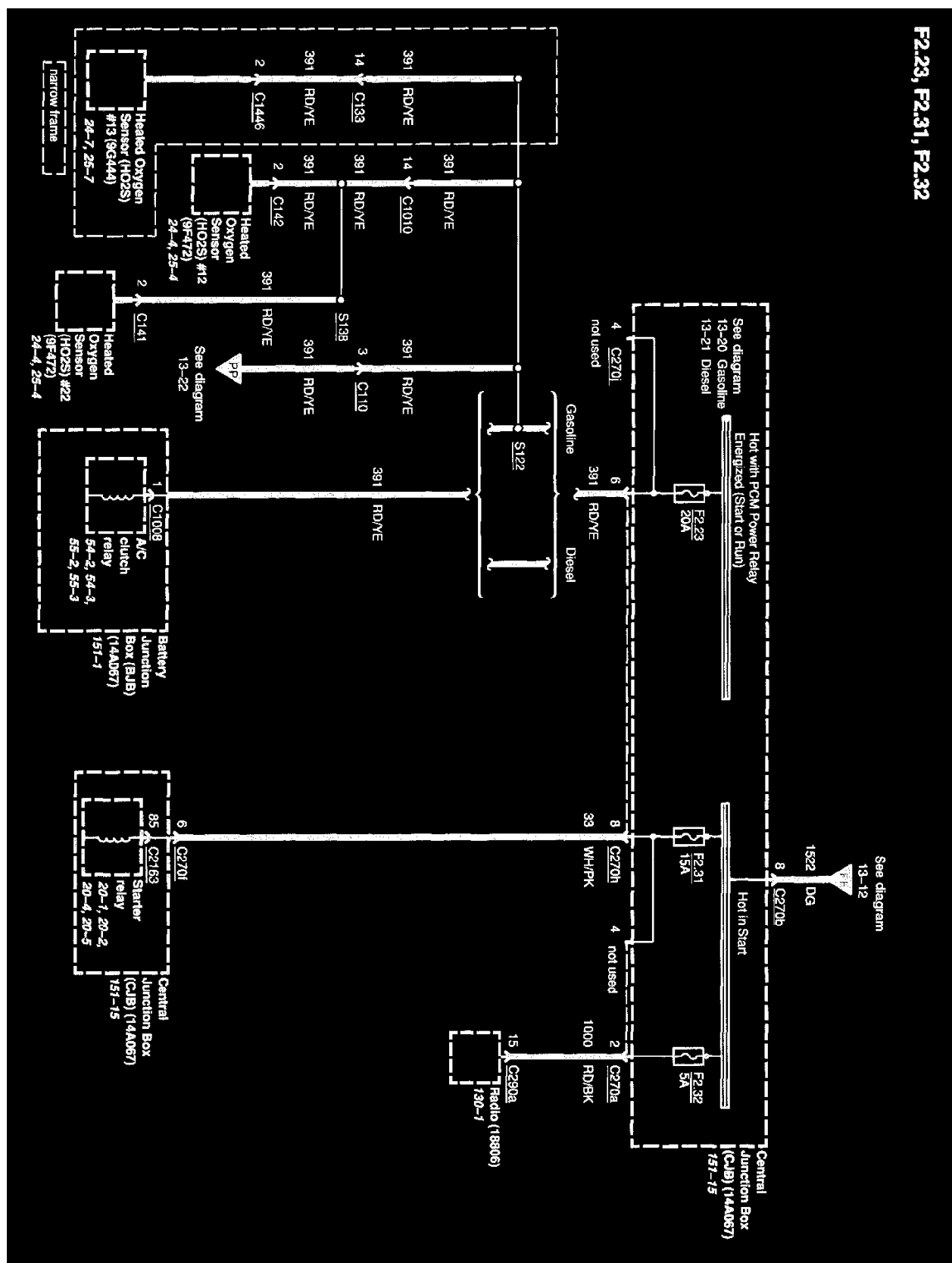
Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-11

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 13-13

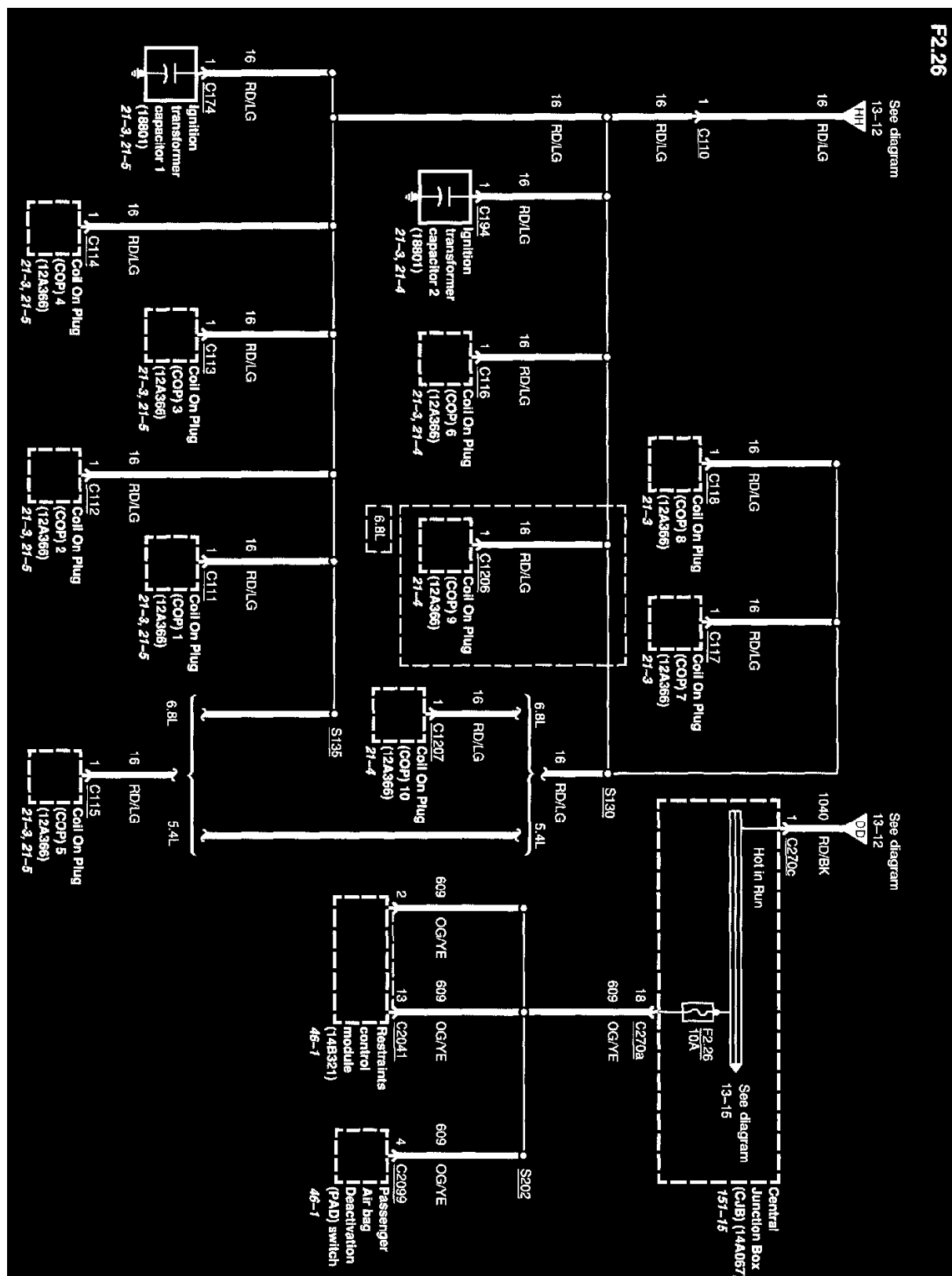
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**13-14**

Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-15

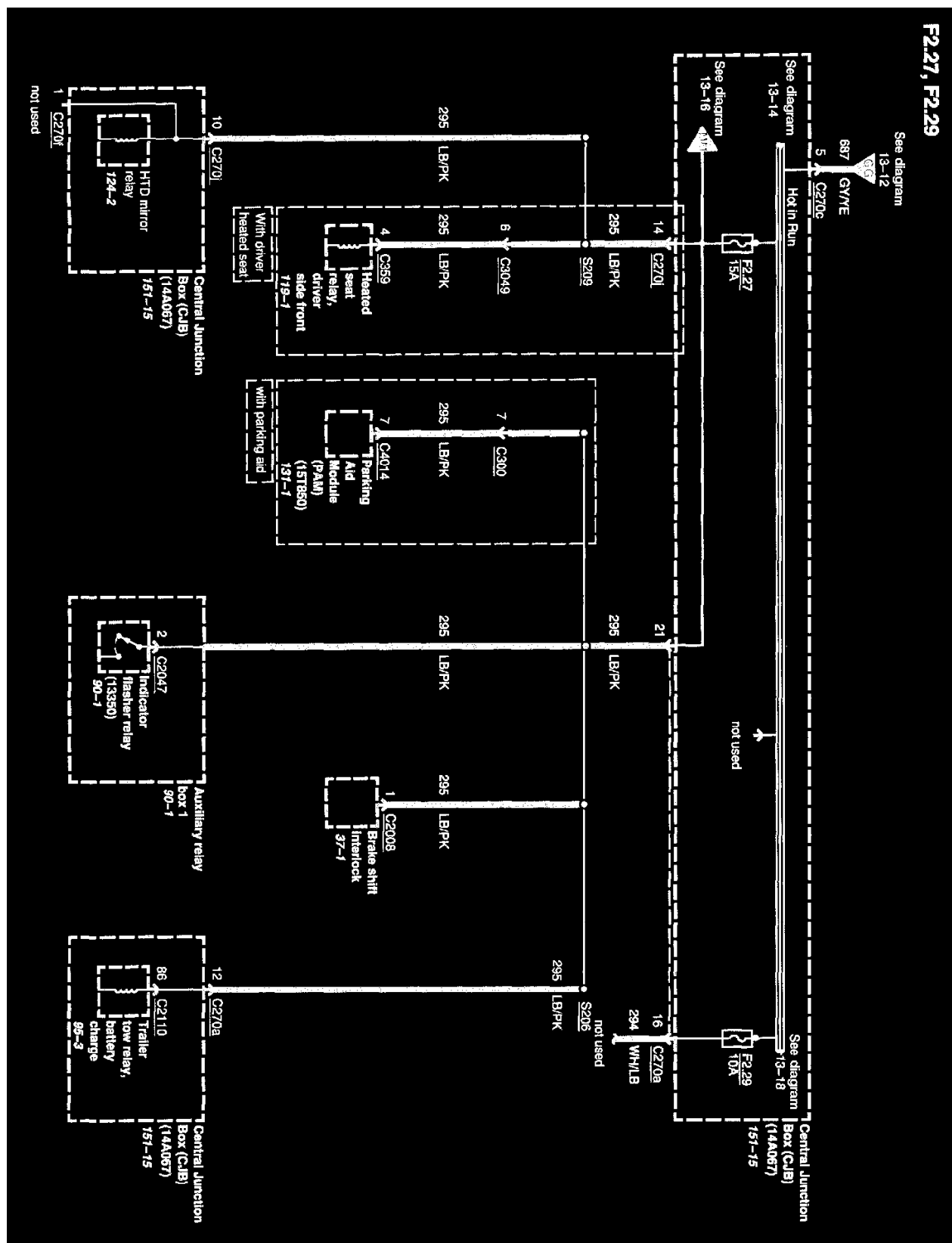
Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-13

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**13-15**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

**F2.27, F2.29**

13-15

Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-16

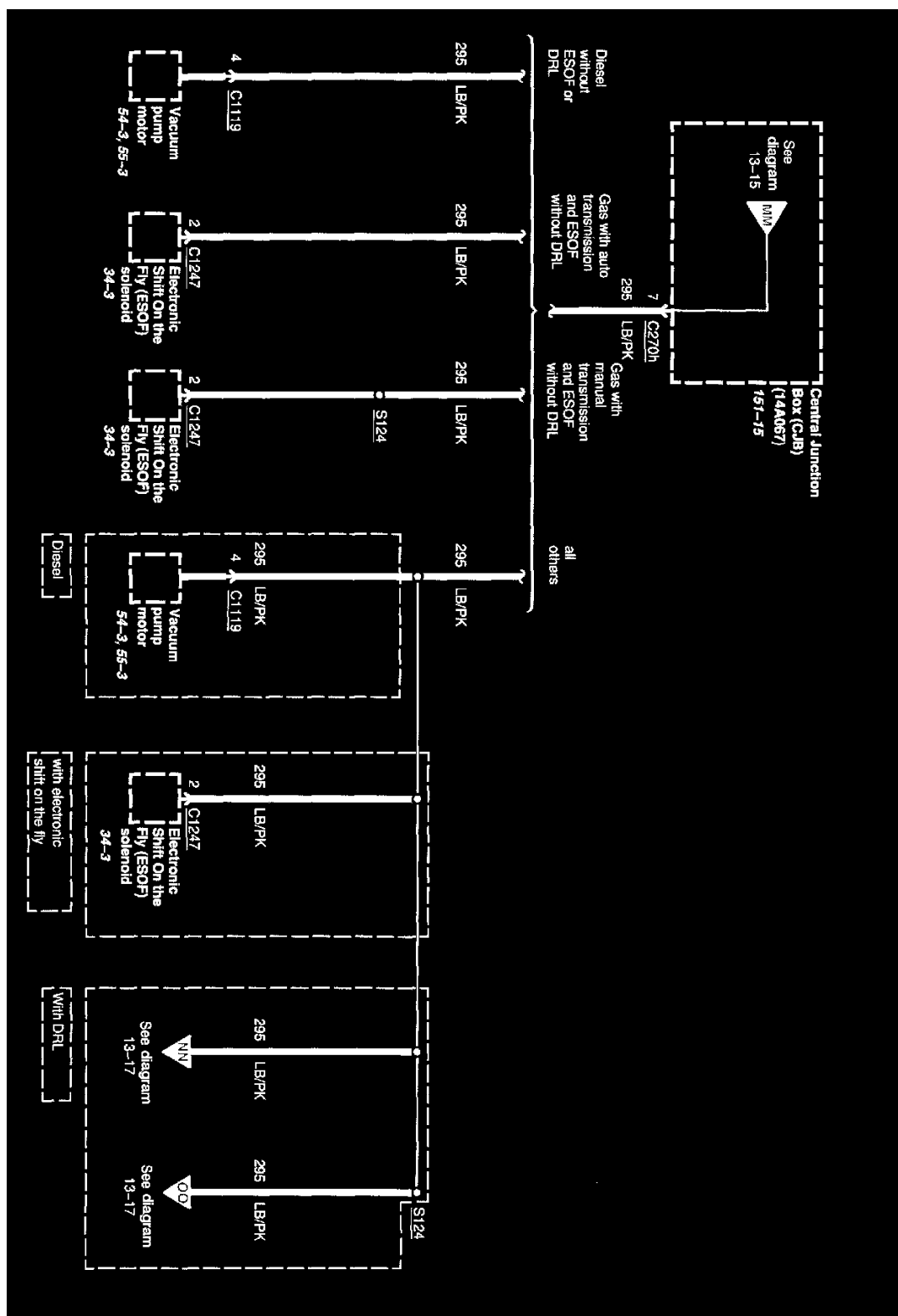
Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-14

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

**13-16**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**13-16**

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-15

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See:

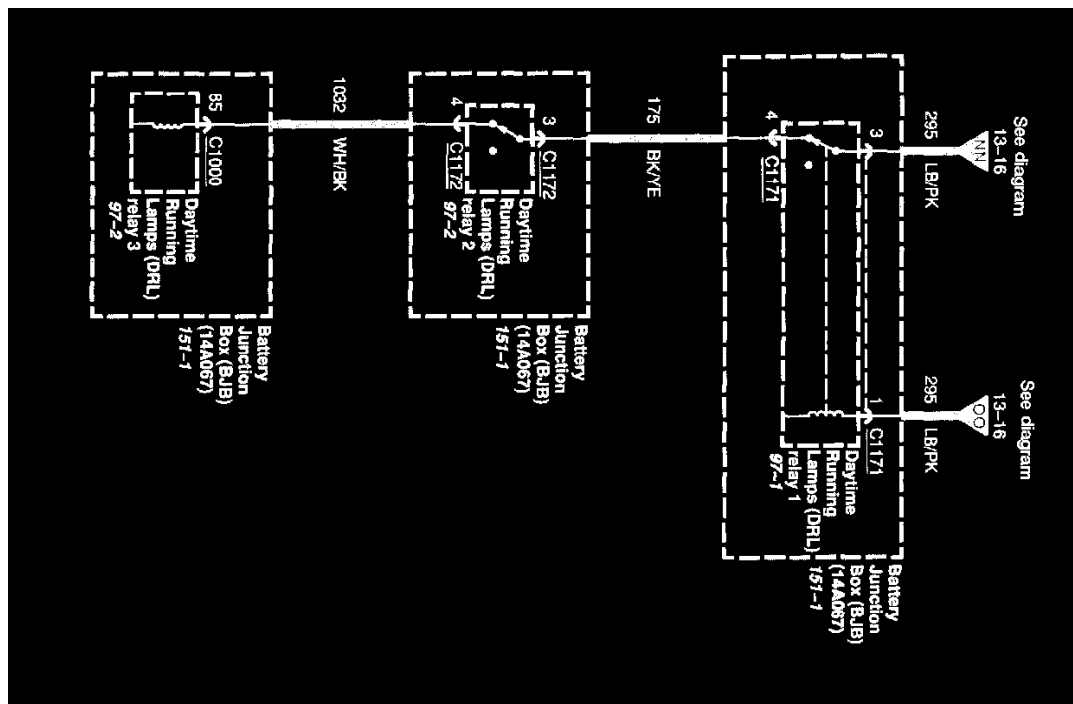
## Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

### 13-17

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



### 13-17

Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-18

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-16

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

### 13-18

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

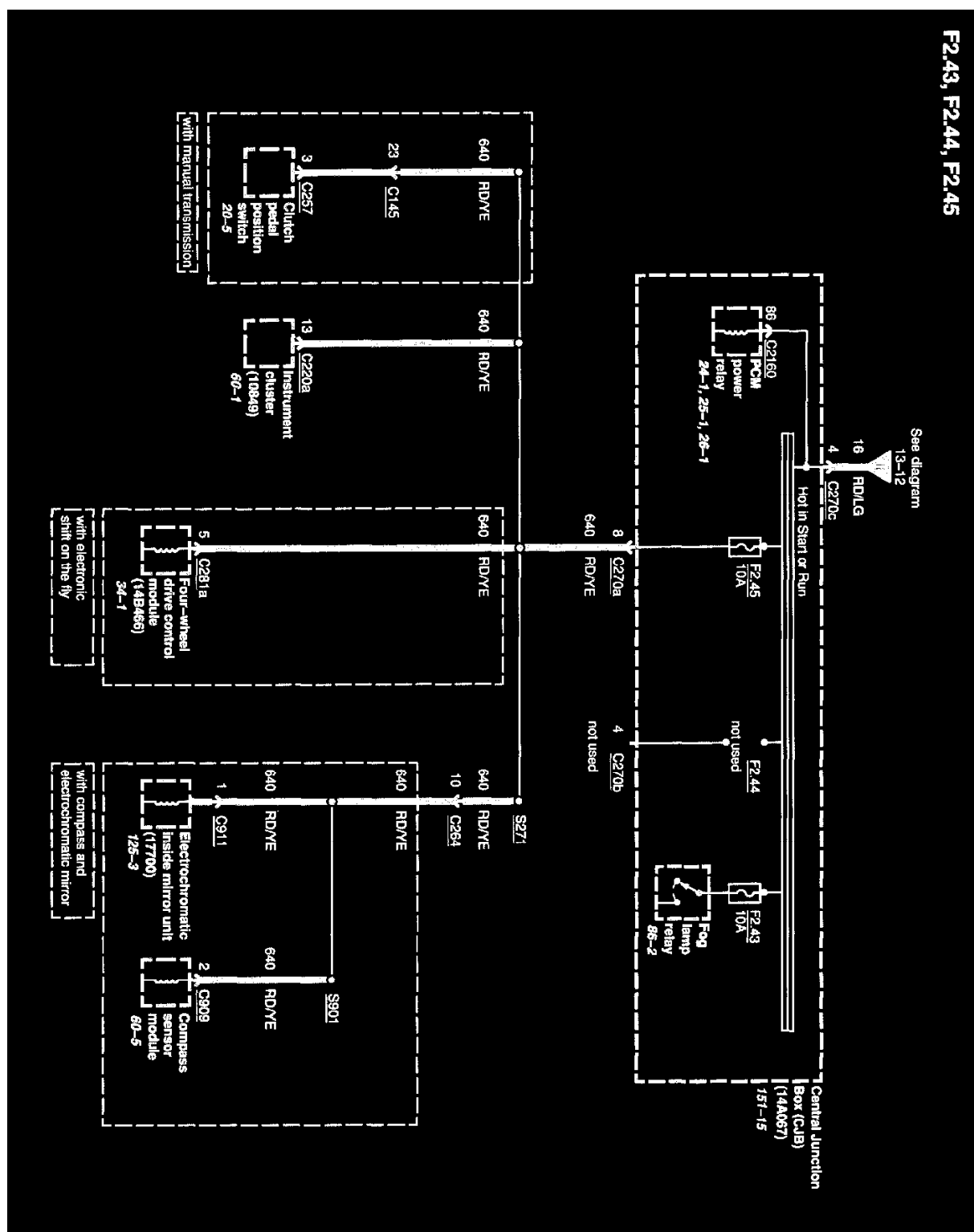
[illegible]

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.  
See: Components/Component Location Views

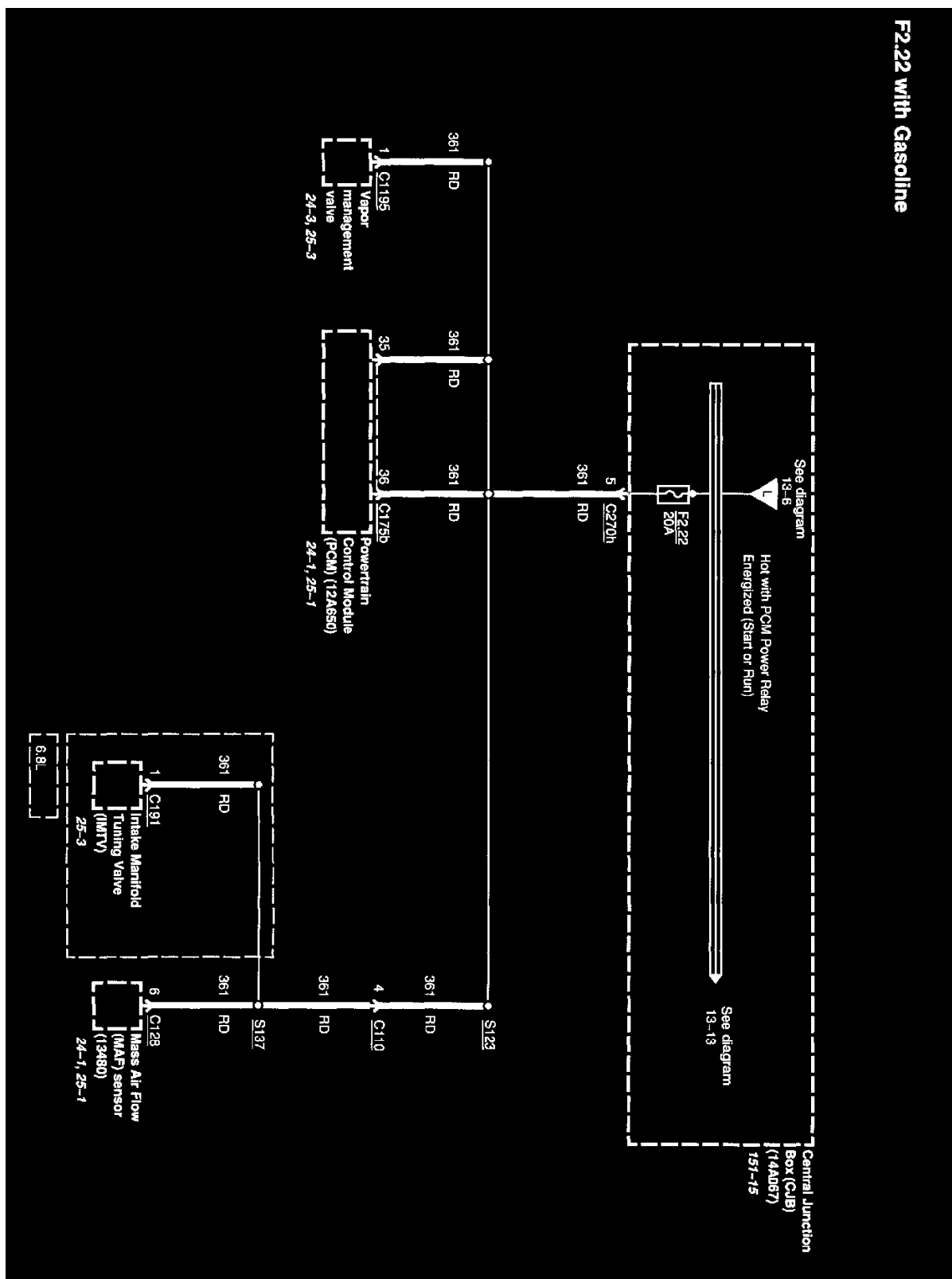
## 13-19

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**13-20**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-22

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-19

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 13-22

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

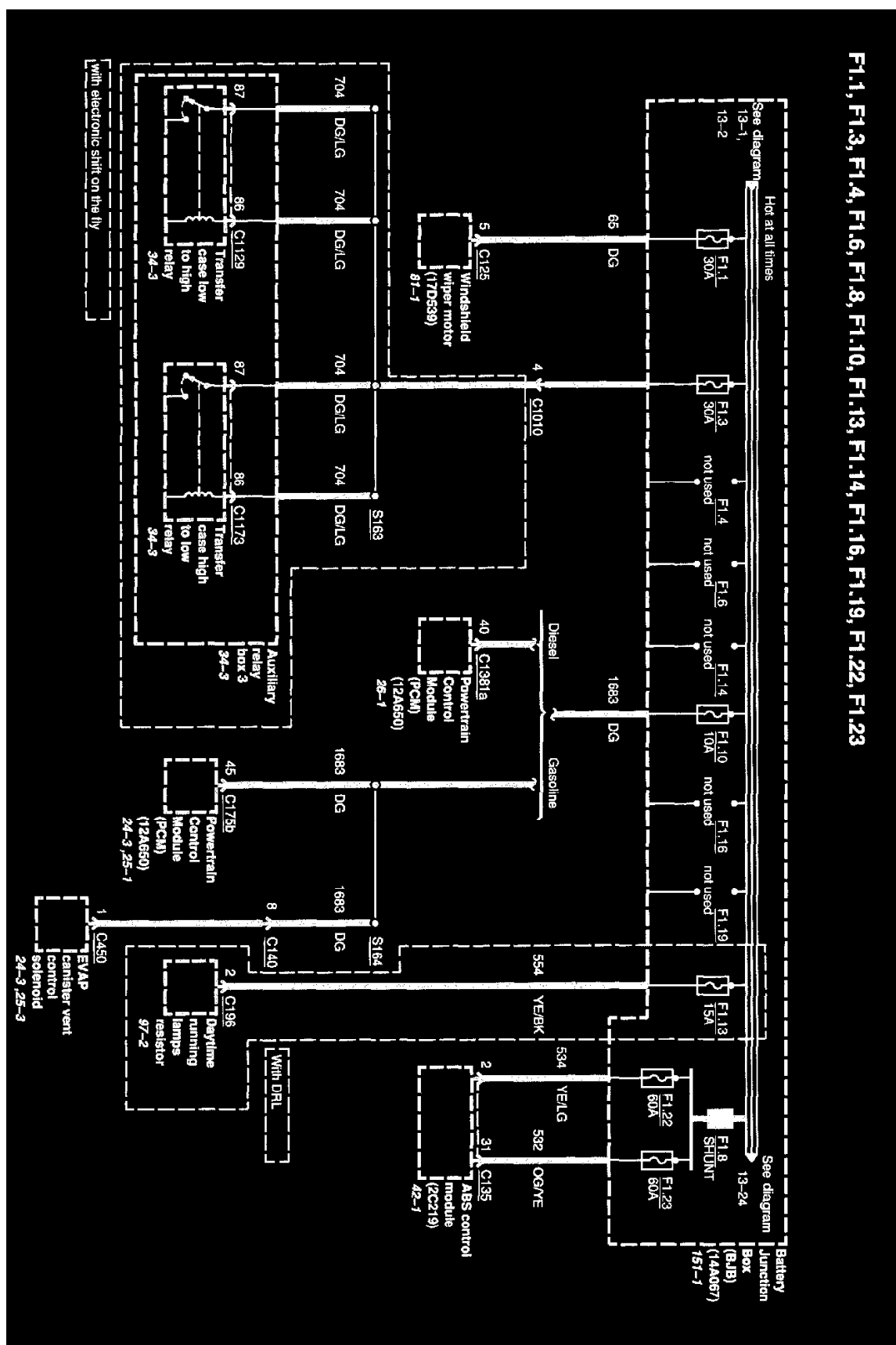


**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.  
 See: Components/Component Location Views

## 13-23

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**13-23**

Next Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-24

Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-22

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**13-24**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



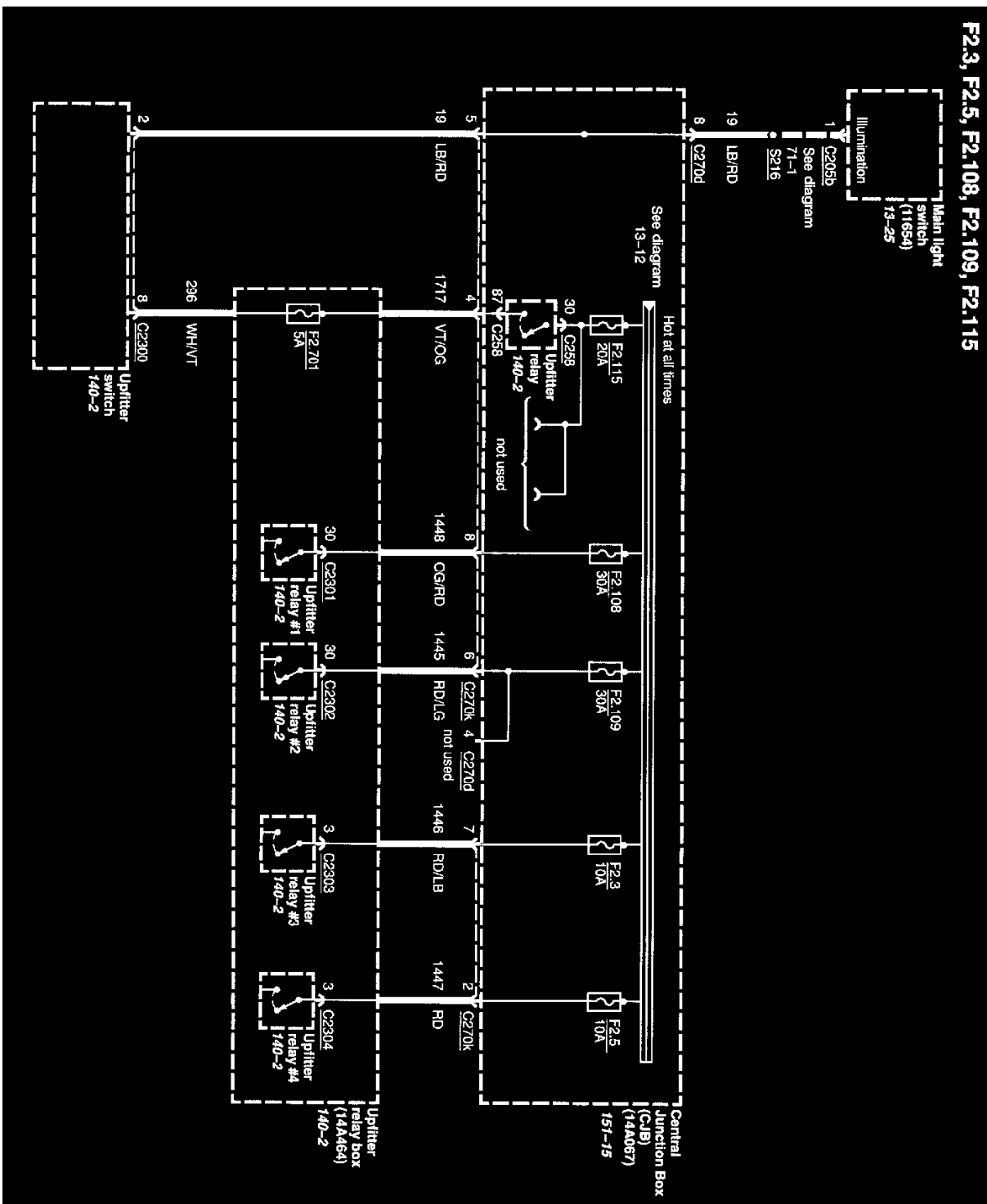
Previous Diagram See: Electrical Diagrams/Power and Ground Distribution/Power Distribution Diagrams/13-24

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 13-26

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



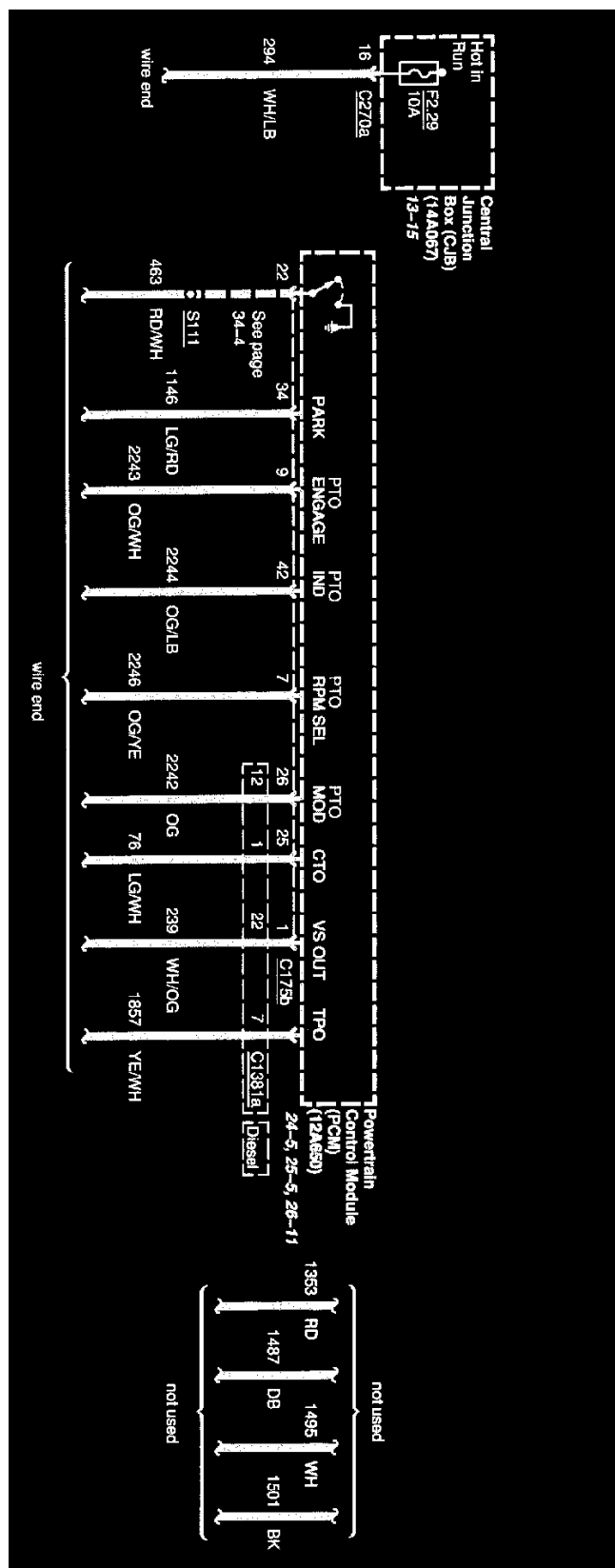
## Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

**Customer Access**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



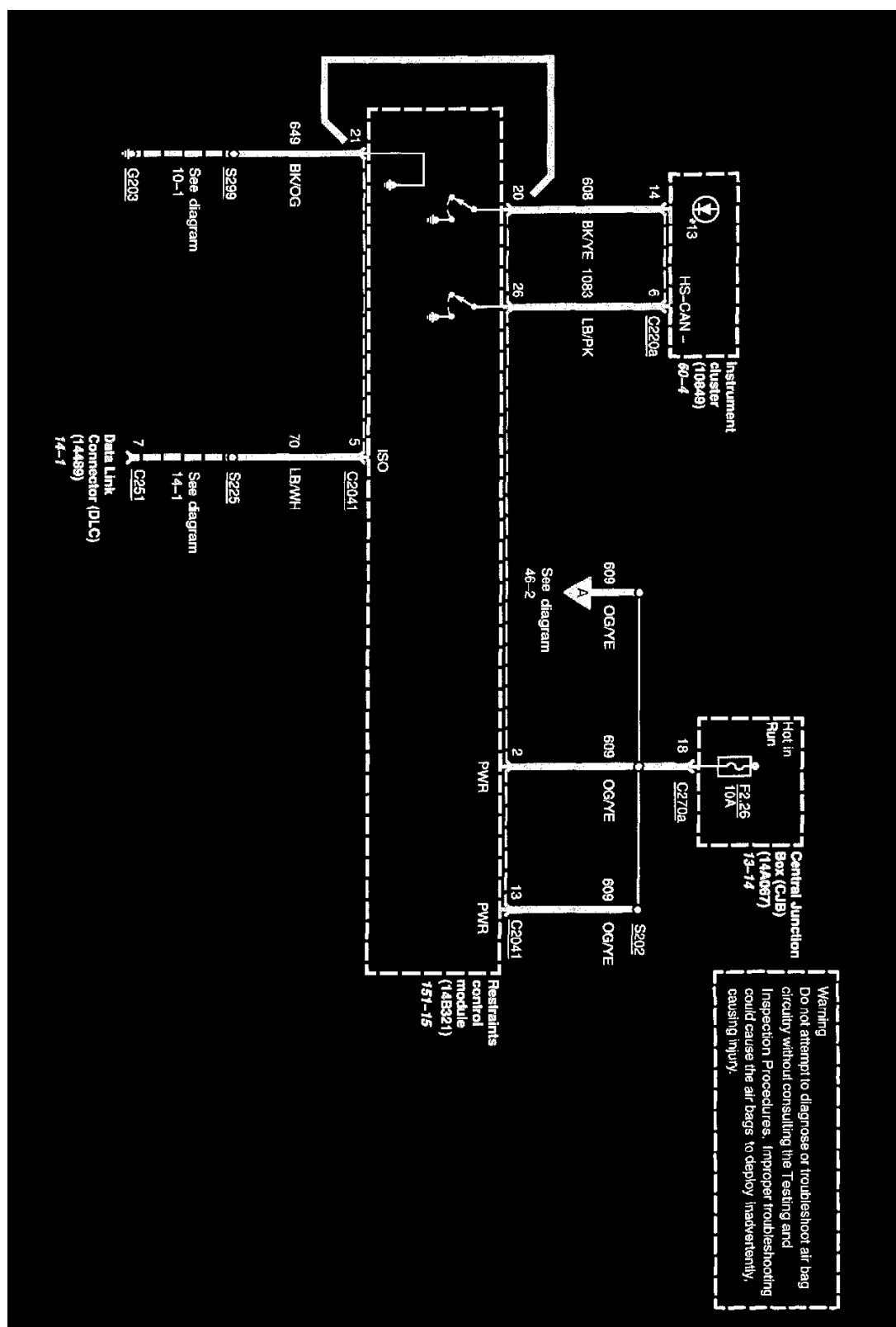




**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

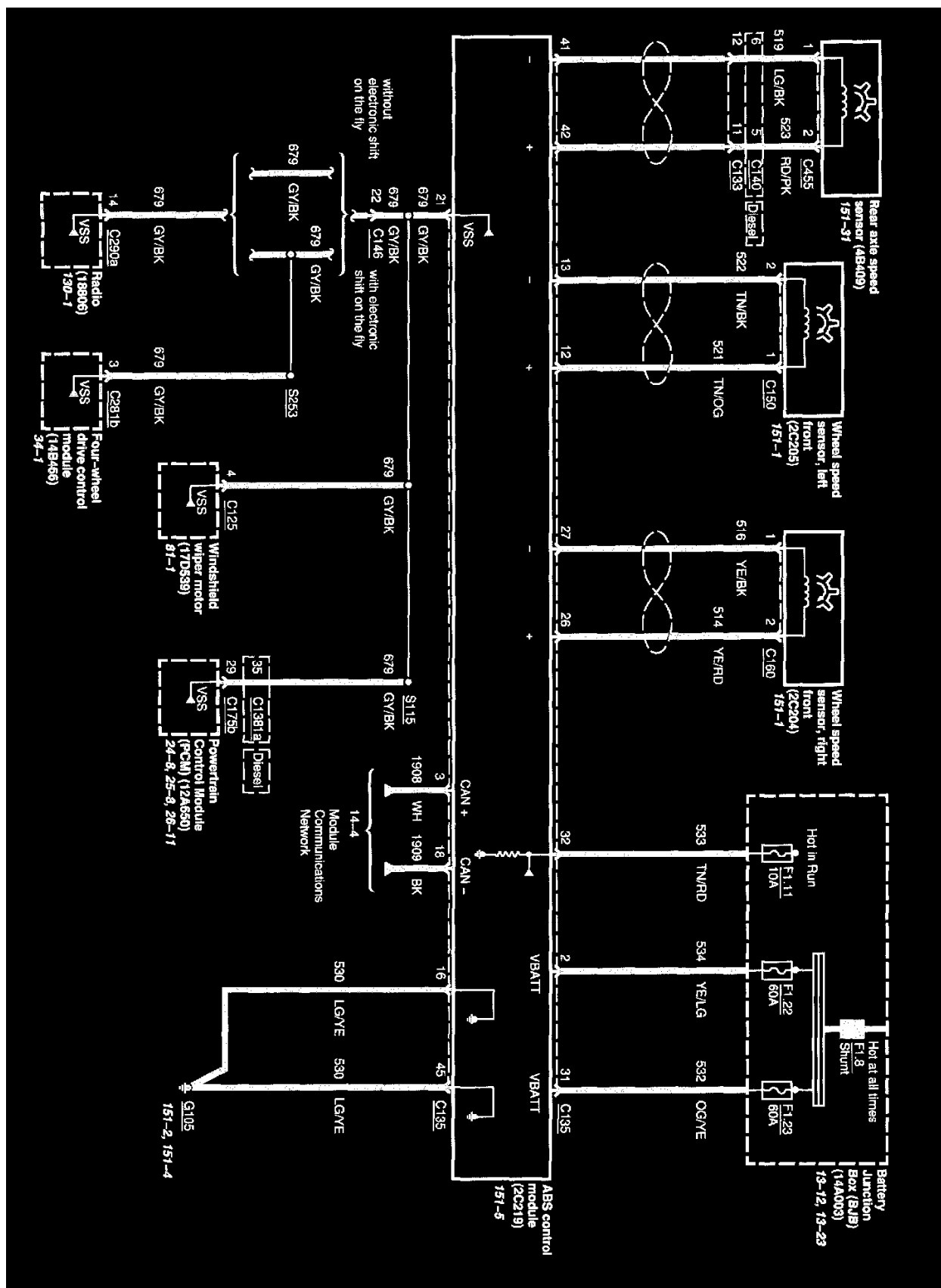
## Air Bag Systems

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





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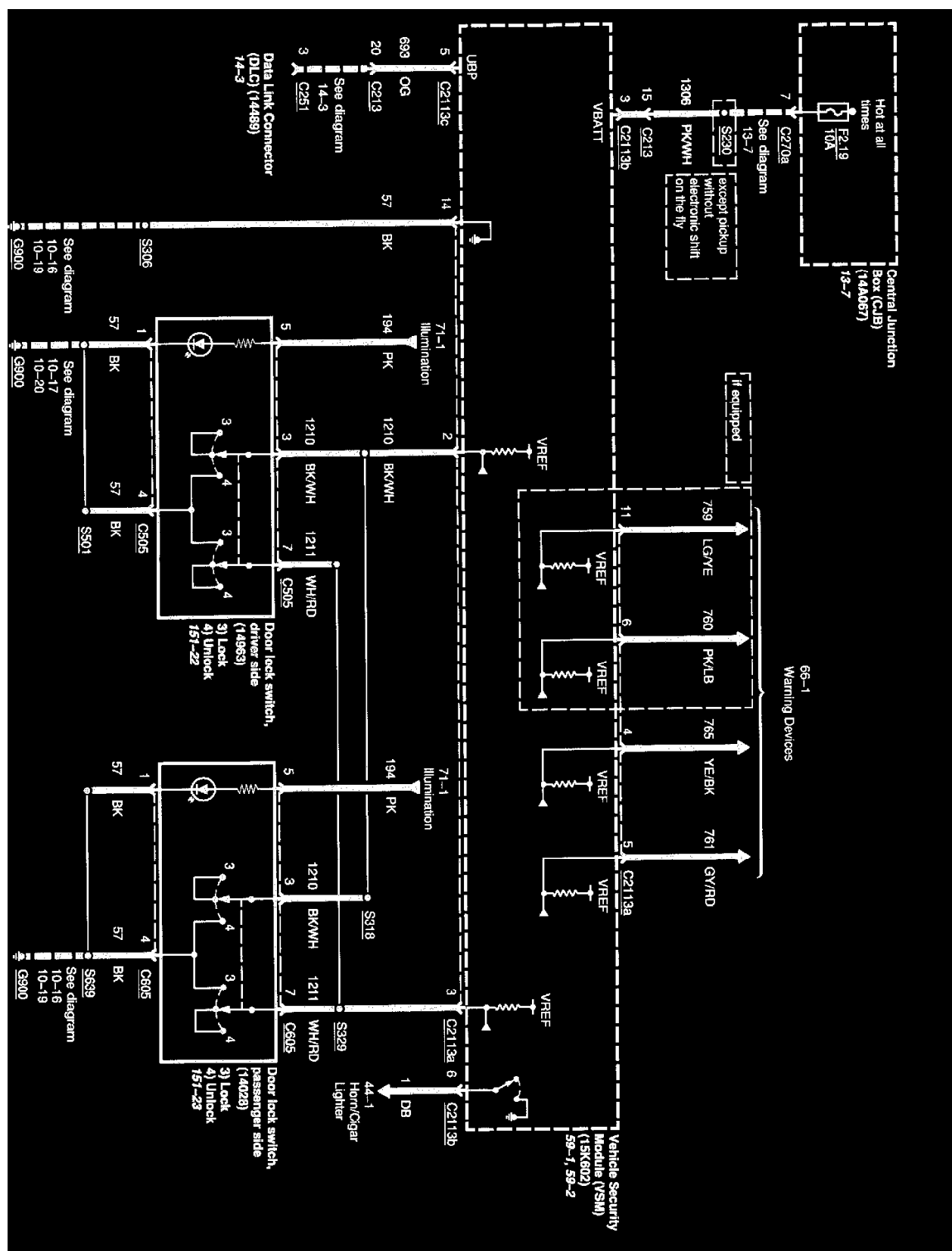
42-1

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Antitheft and Alarm Systems

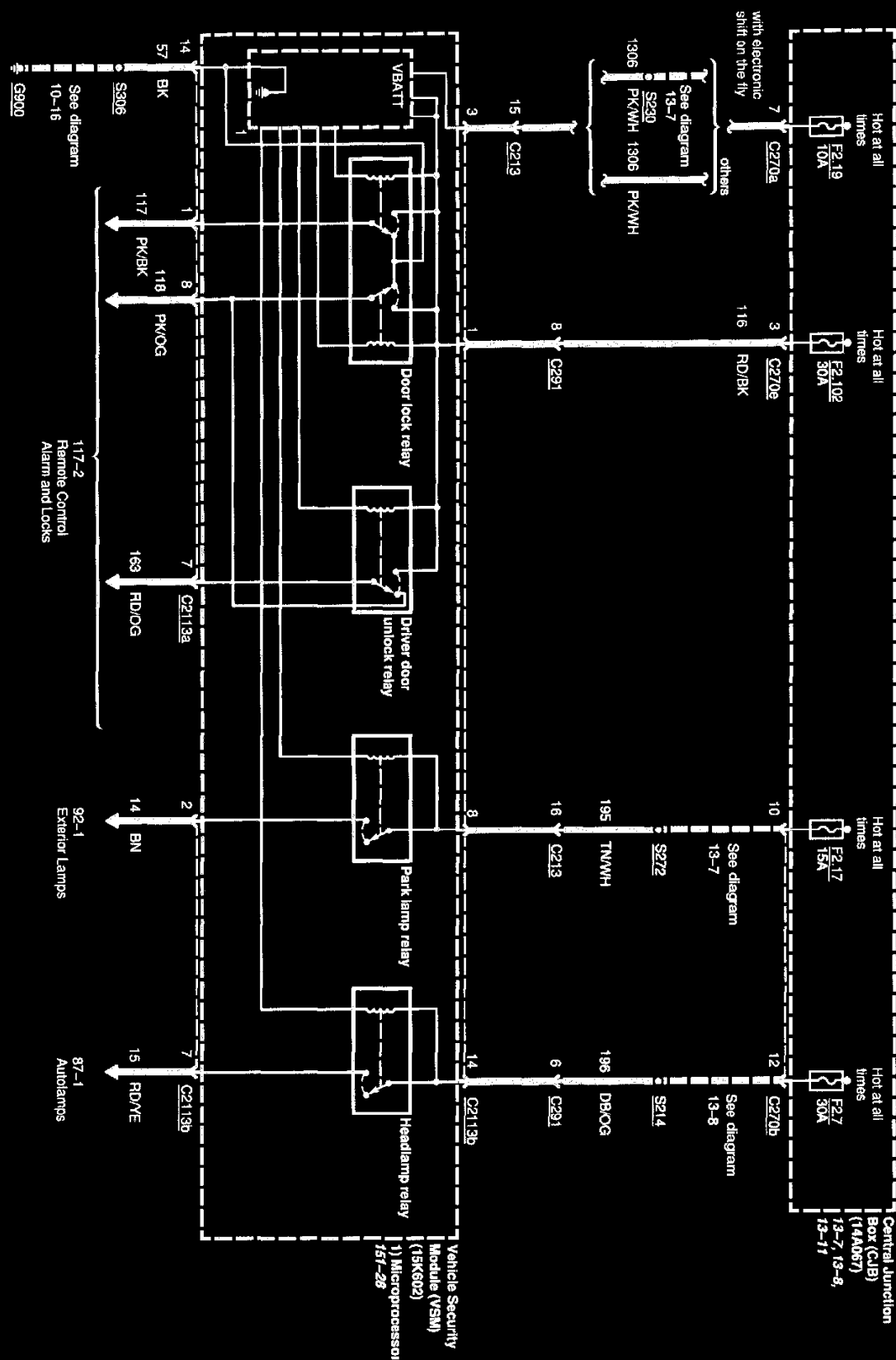
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.







## with remote keyless entry



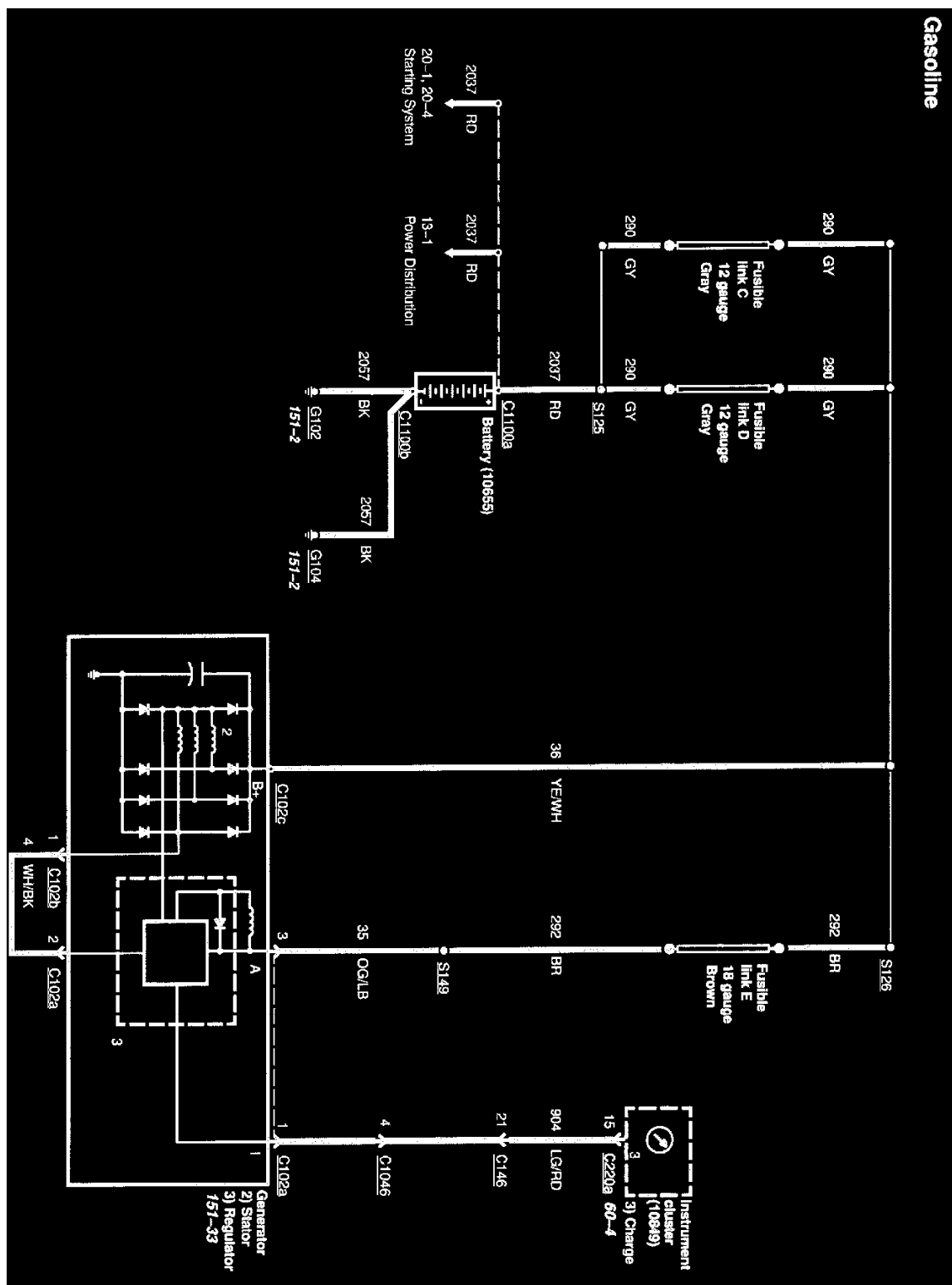




**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



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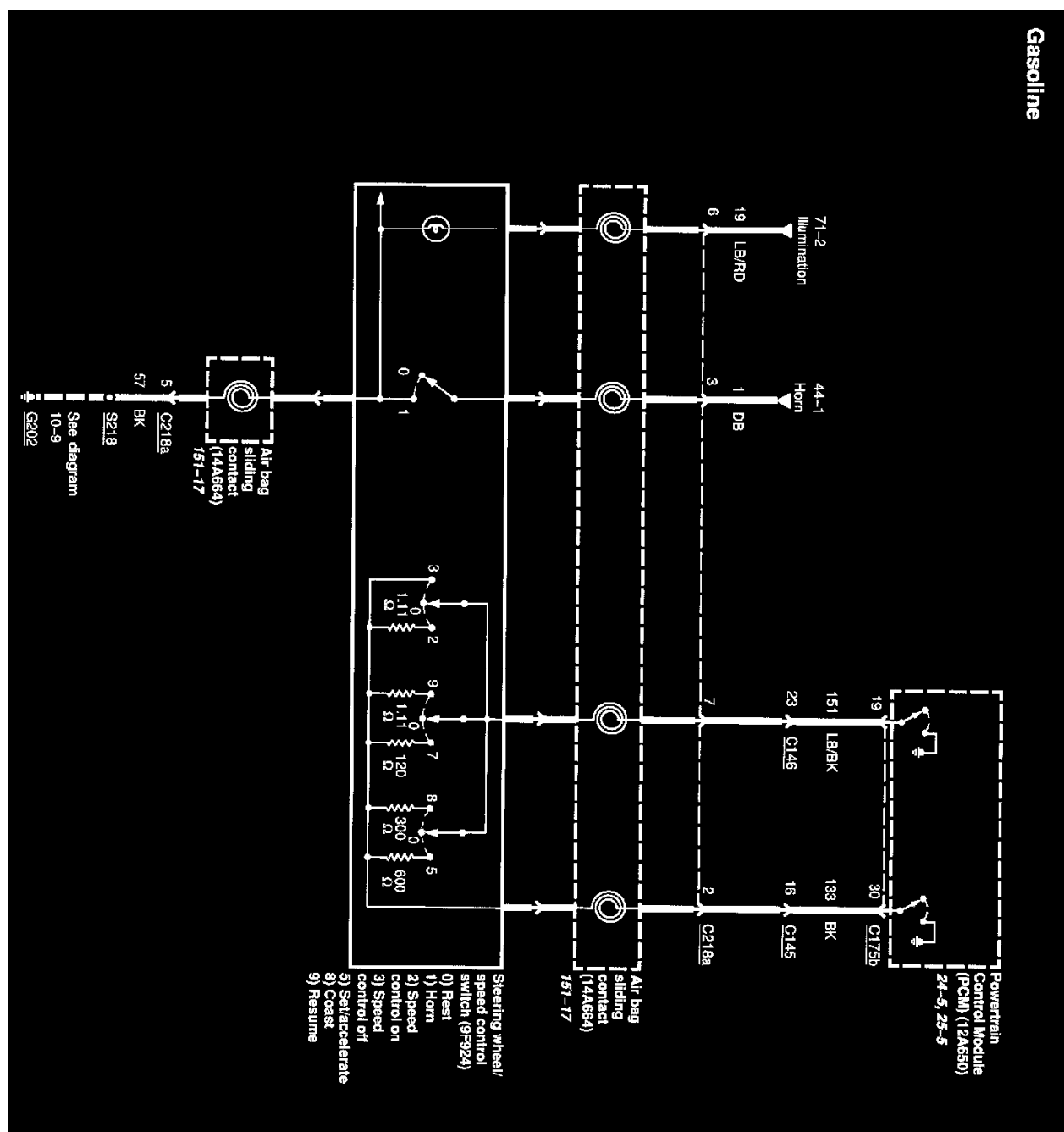




**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

The diagram illustrates the electrical circuit for the brake and clutch pedal position switches. Key components and connections include:

- Battery Junction Box (14A067):** Provides power to the system via the 418 DG/VE line.
- Central Junction Box (14A067):** Distributes power to the brake pedal position switch (C278) and the clutch pedal position switch (C257).
- Brake pedal position switch (C278):** Connected to the 22 LB/BK line, which leads to the PCM (12A650) via the 24-8, 25-8 line.
- Clutch pedal position switch (C257):** Connected to the 20-4 line, which leads to the PCM (12A650) via the 24-8, 25-8 line.
- PCM (12A650):** The Powertrain Control Module, which receives signals from the switches and controls the system.
- Other components:** The diagram also shows the brake pressure switch (C1025), the clutch pedal position switch (C257), and the manual transmission (C257).



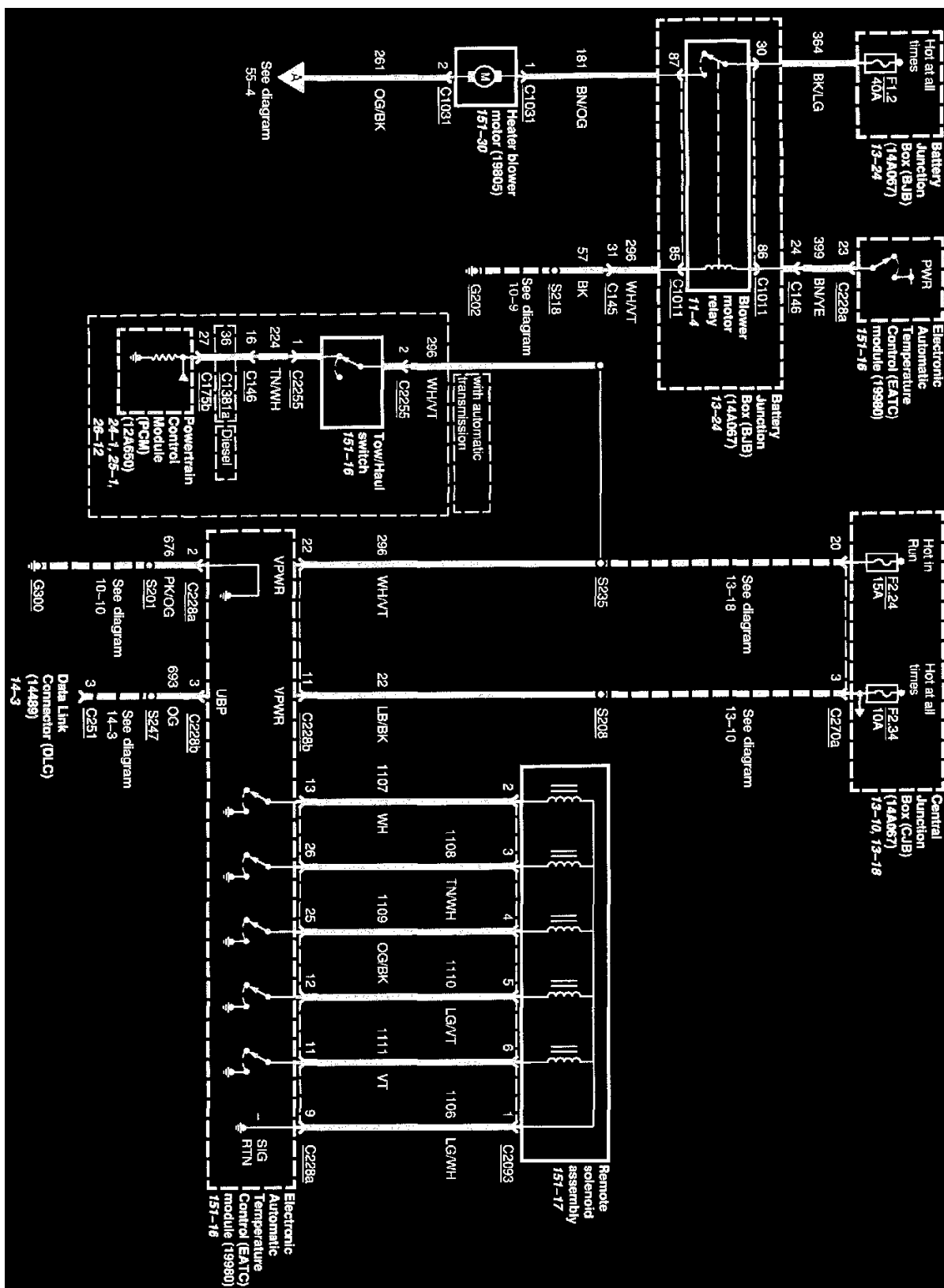
31-2

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

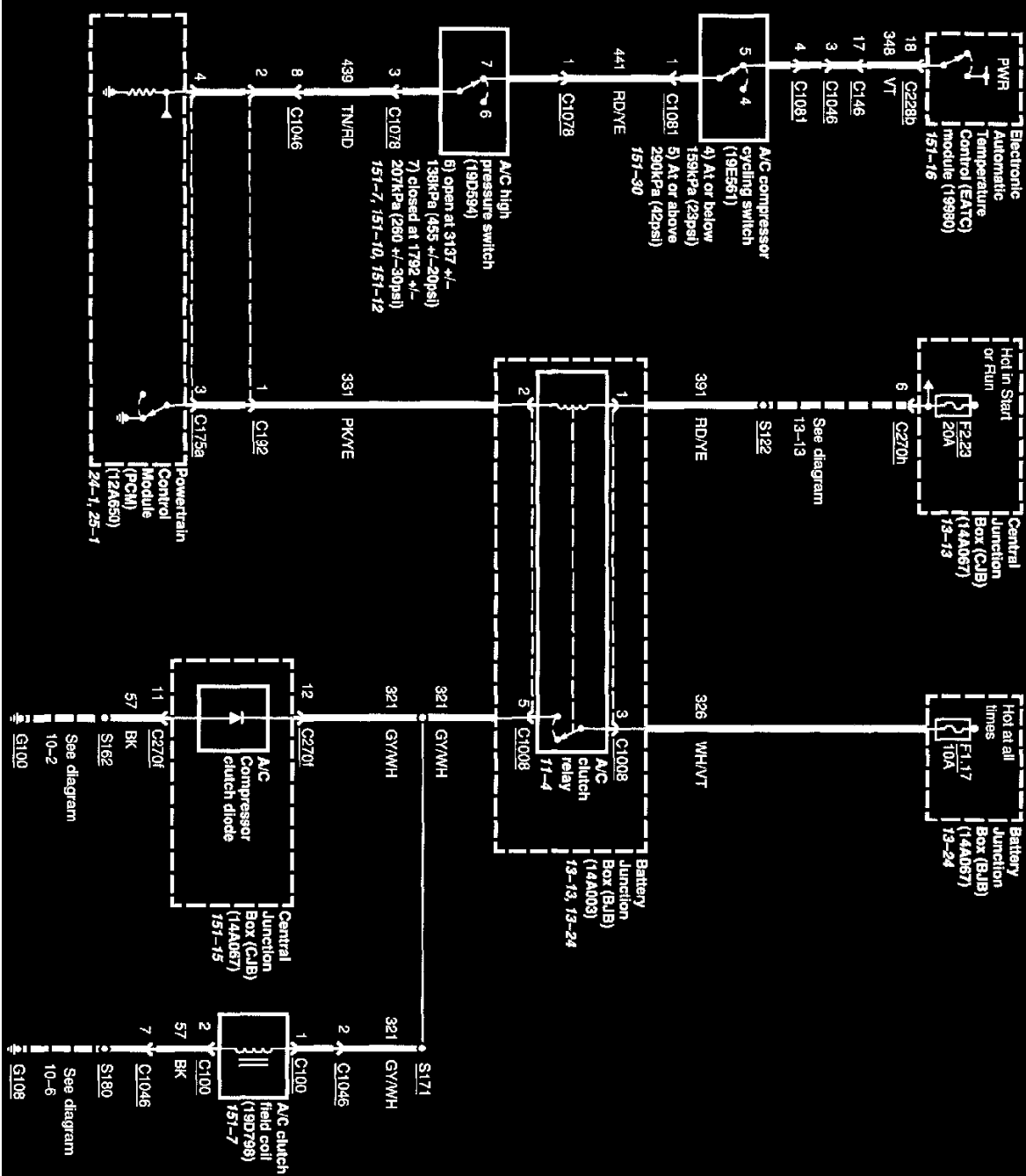
## Automatic Climate Control System

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





## Gasoline

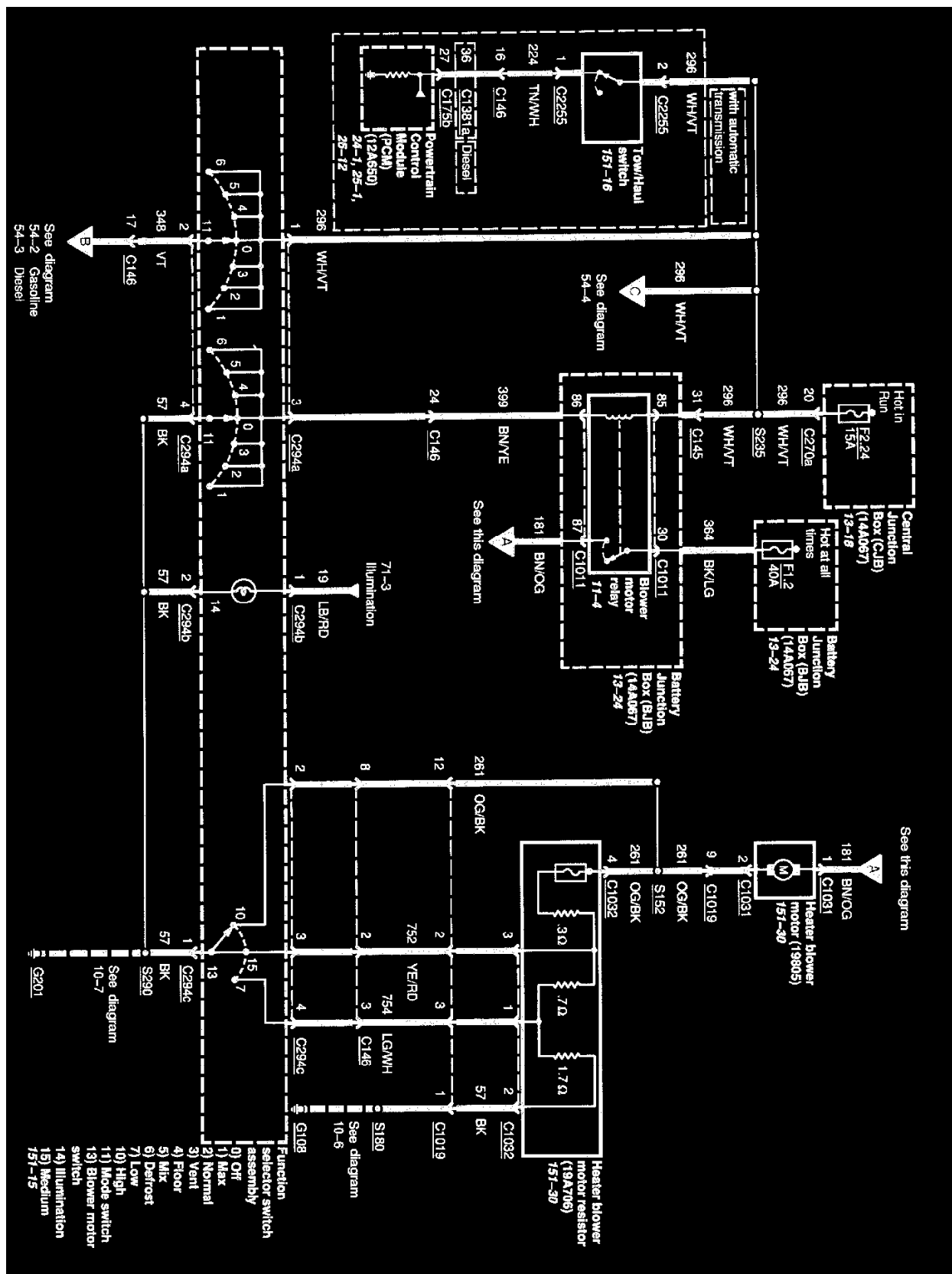






**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do

not apply to the vehicle model selected.

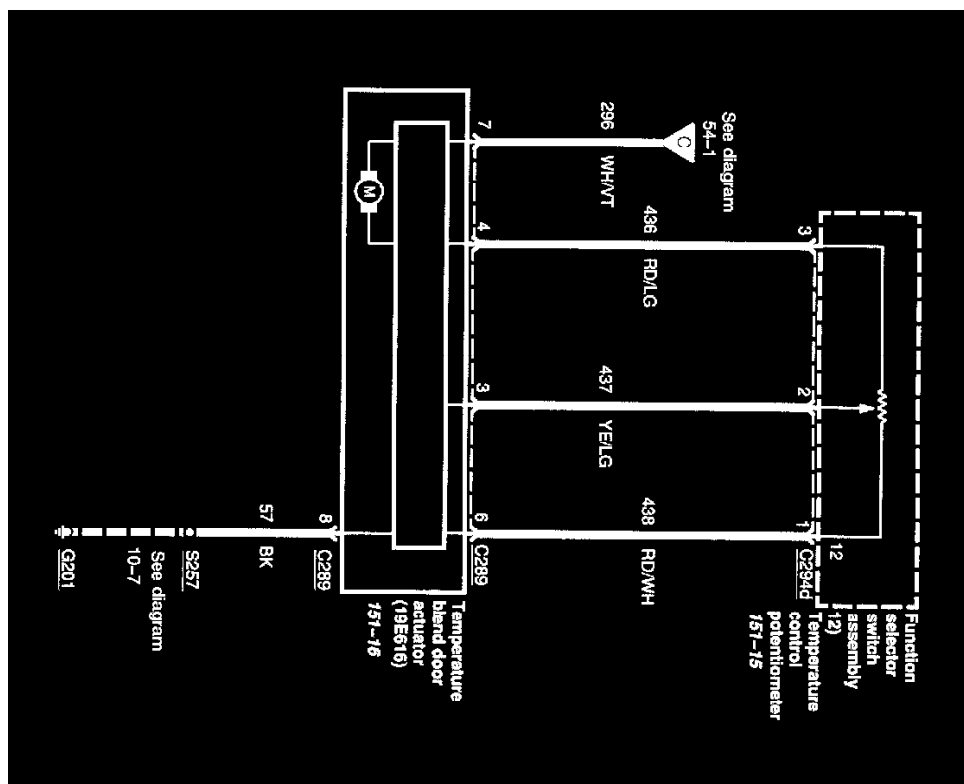


# Gasoline

This wiring diagram illustrates the electrical system for a gasoline engine. Key components include:

- A/C Compressor Cycling Switch (19E861):** Controls the A/C compressor based on pressure. It has terminals for 4) At or below 159kPa (23psi), 5) At or above 200kPa (42psi), and 151-30.
- Pressure Switch (19D594):** Monitors A/C high pressure. Terminals include 6) open at 3137 +/- 138kPa (455 +/- 20psi) and 7) closed at 1792 +/- 207kPa (260 +/- 30psi).
- Clutch Relay (C1008):** Controls the A/C clutch. Terminals include 11-4.
- Junction Boxes:** Central Junction Box (CJB) (14A067) and Battery Junction Box (BUB) (14A033) are used for wire distribution.
- Fuses:** F2.23 (20A) and F1.17 (10A) protect specific circuits.
- Control Module (PCM):** Labeled as 24-1, 25-1.

The diagram shows the flow of power from the battery through various relays and switches to the A/C compressor and clutch coil. Wire colors and terminal numbers are specified throughout the circuit.



54-4

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Instrument Cluster

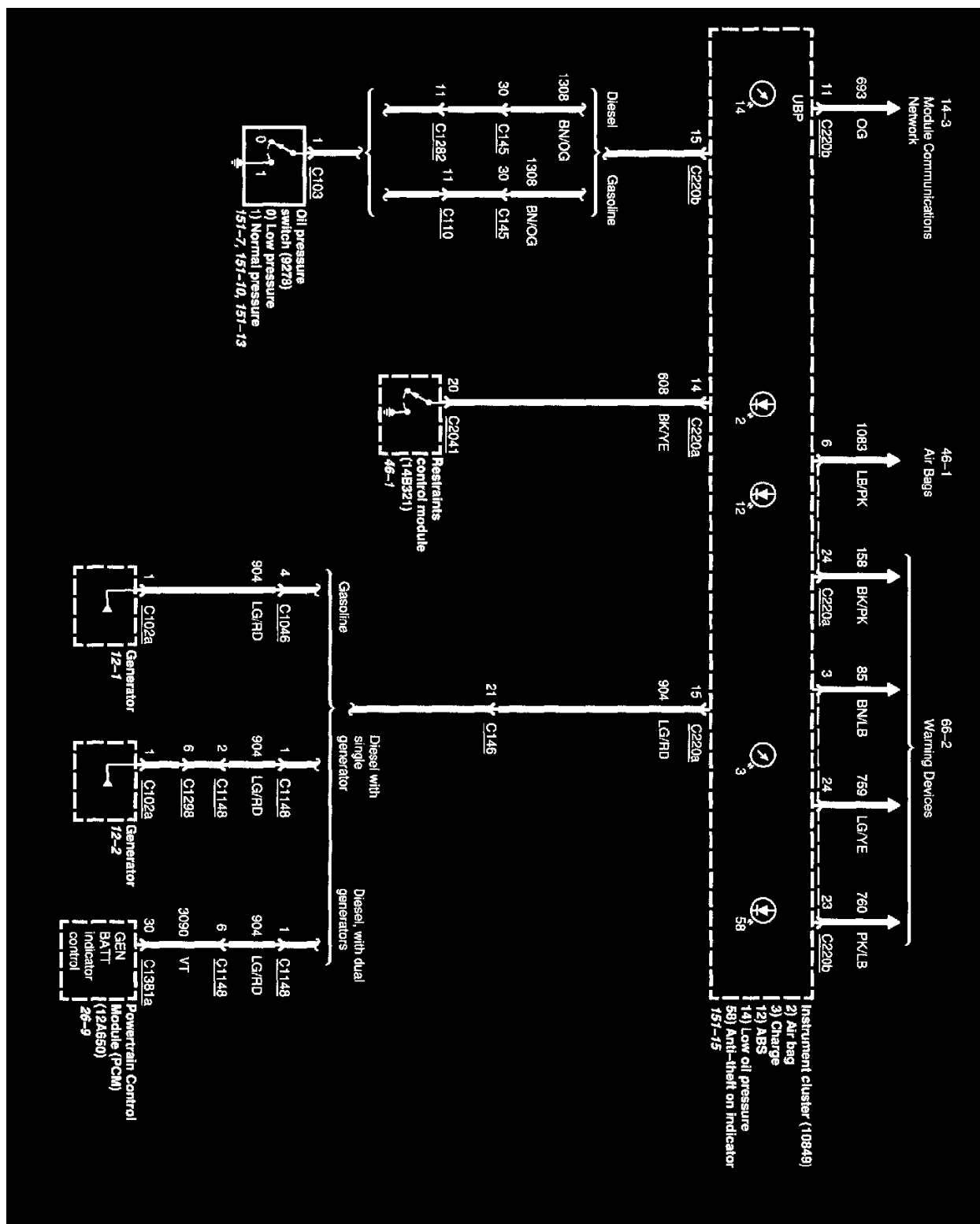
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



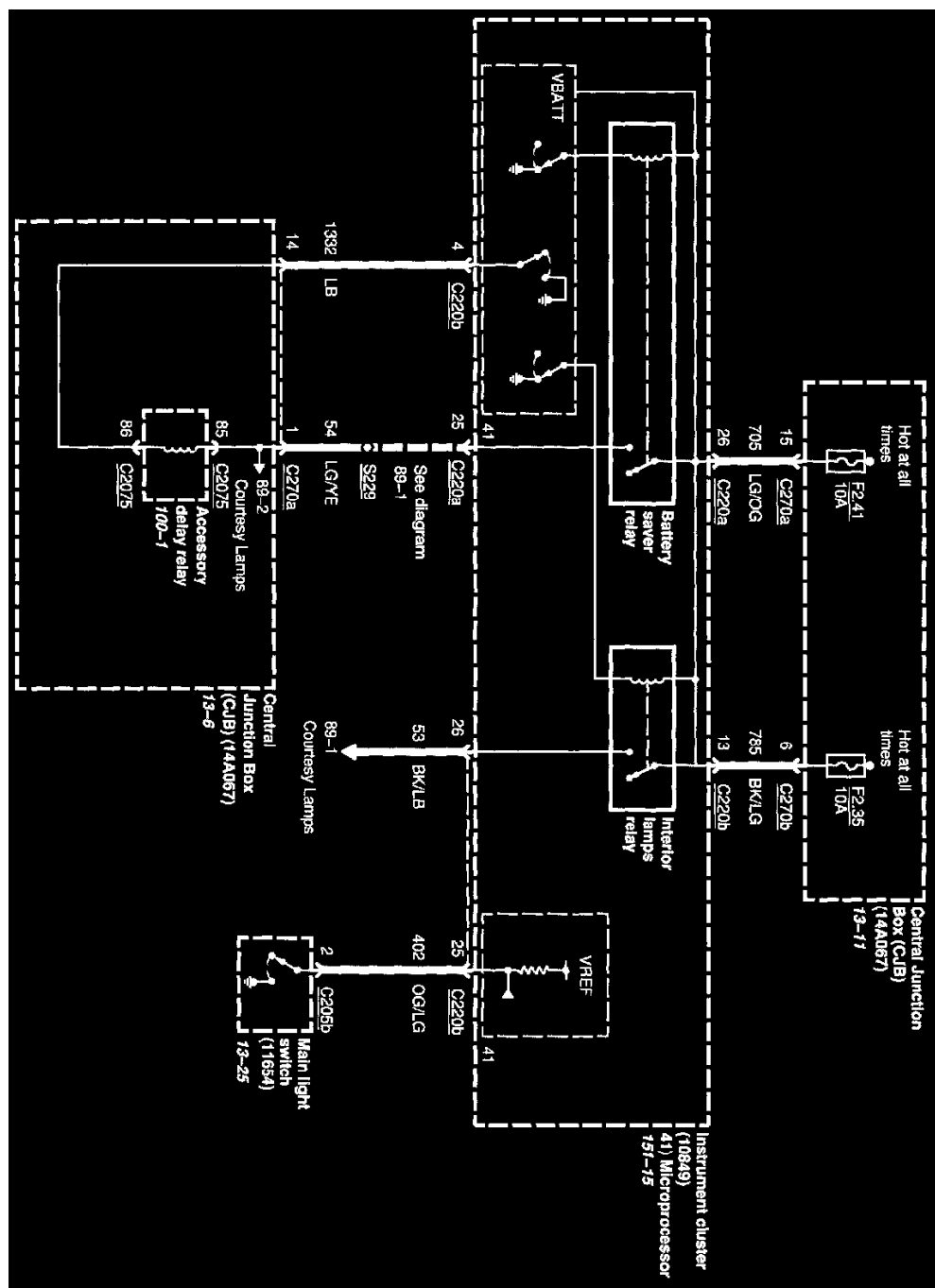












60-6

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

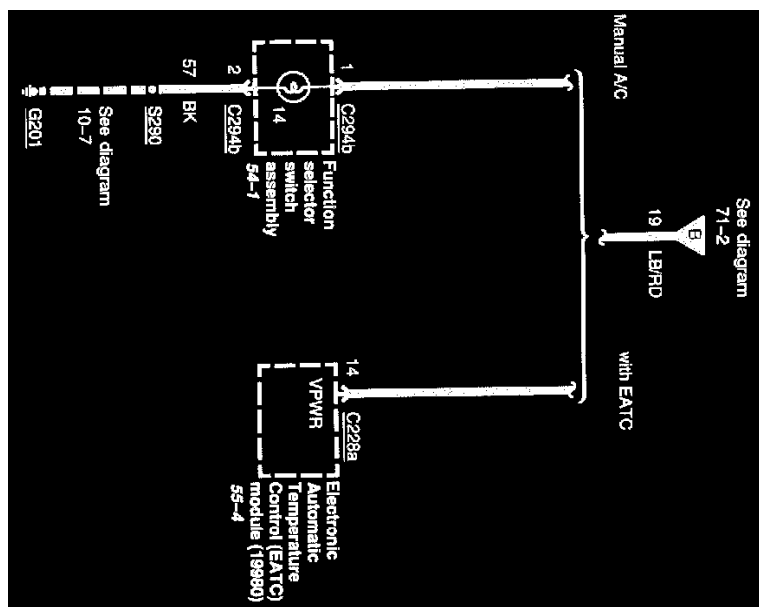
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Illumination

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.







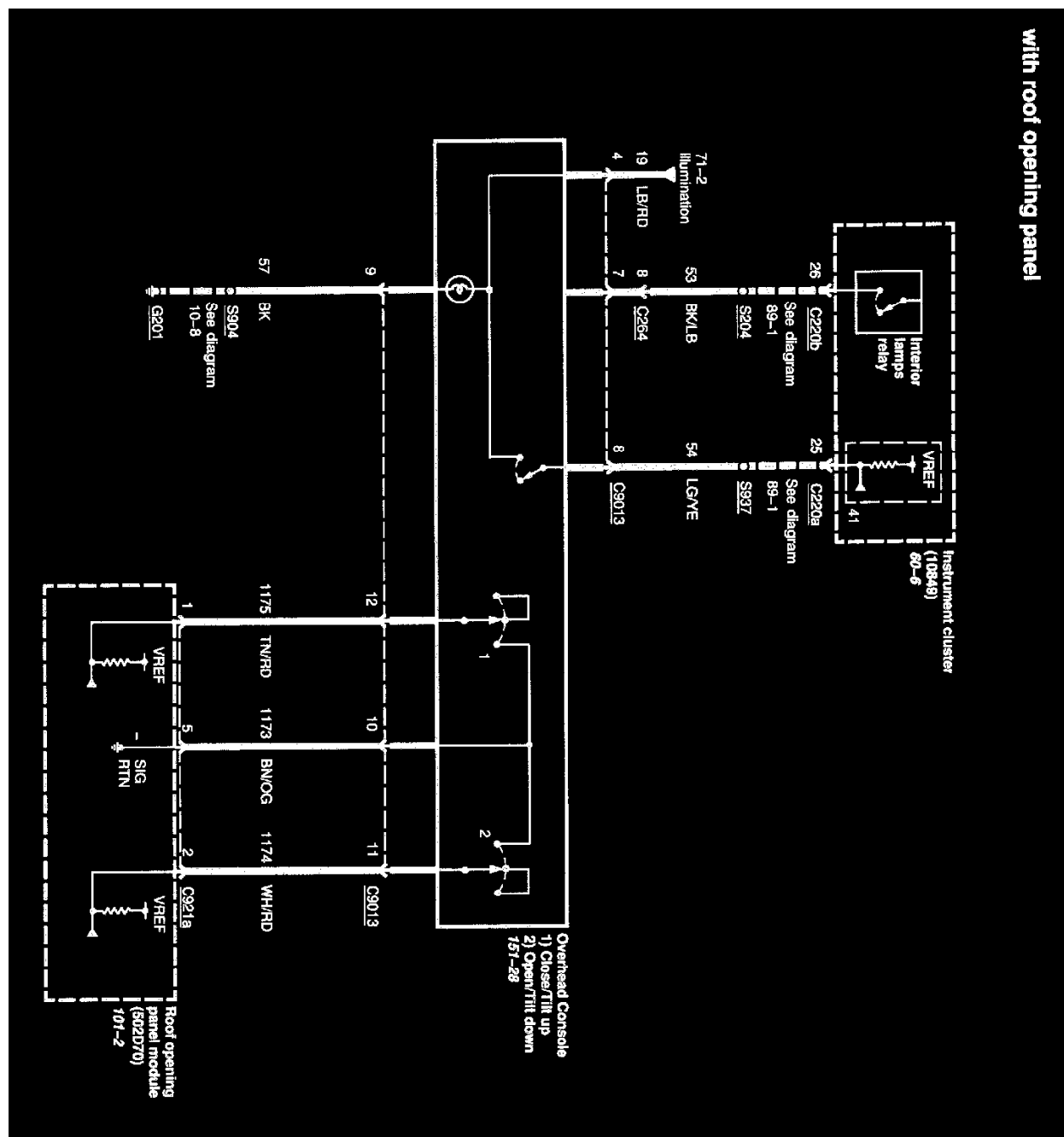
71-3

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Overhead Console

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



102-1

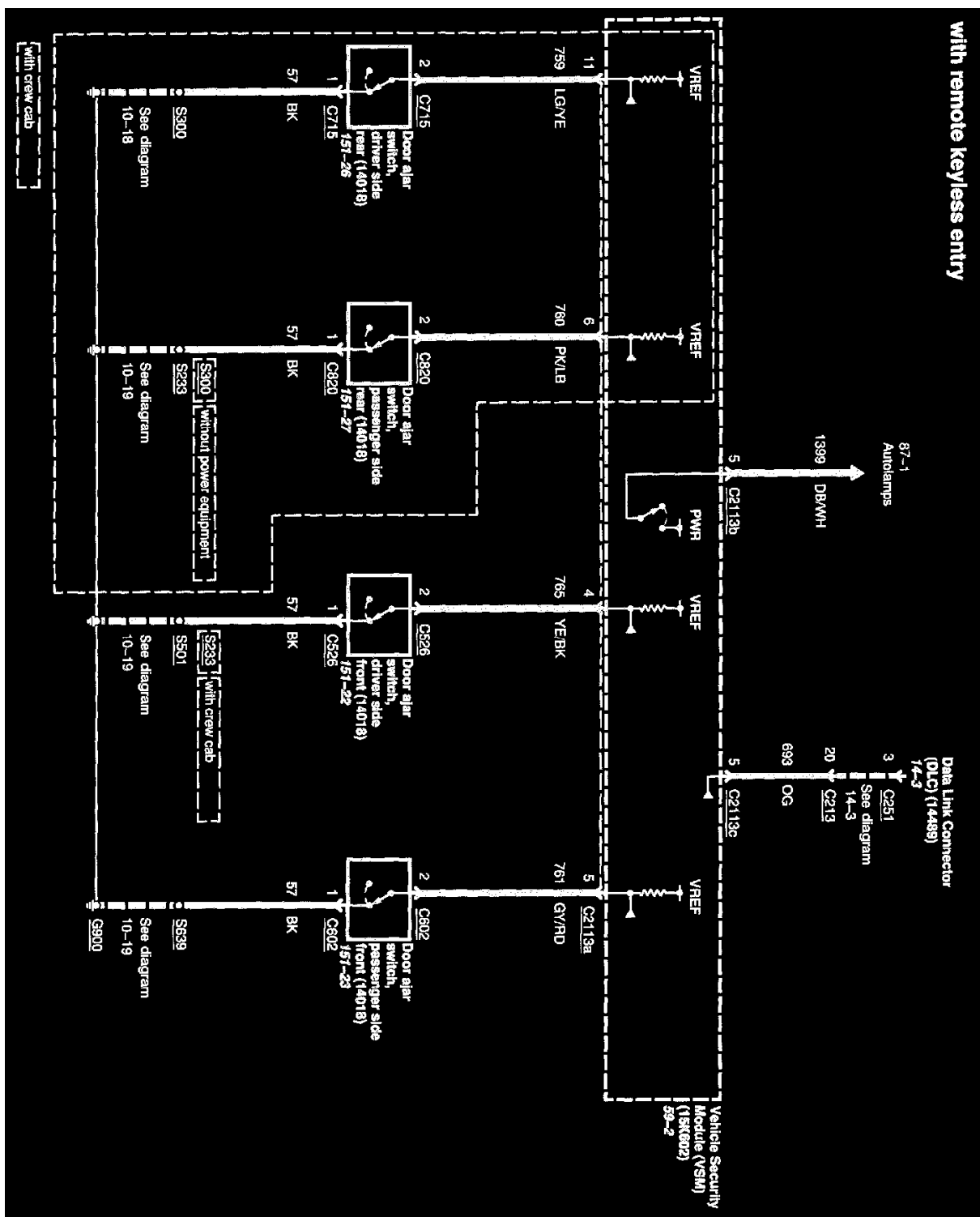
**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

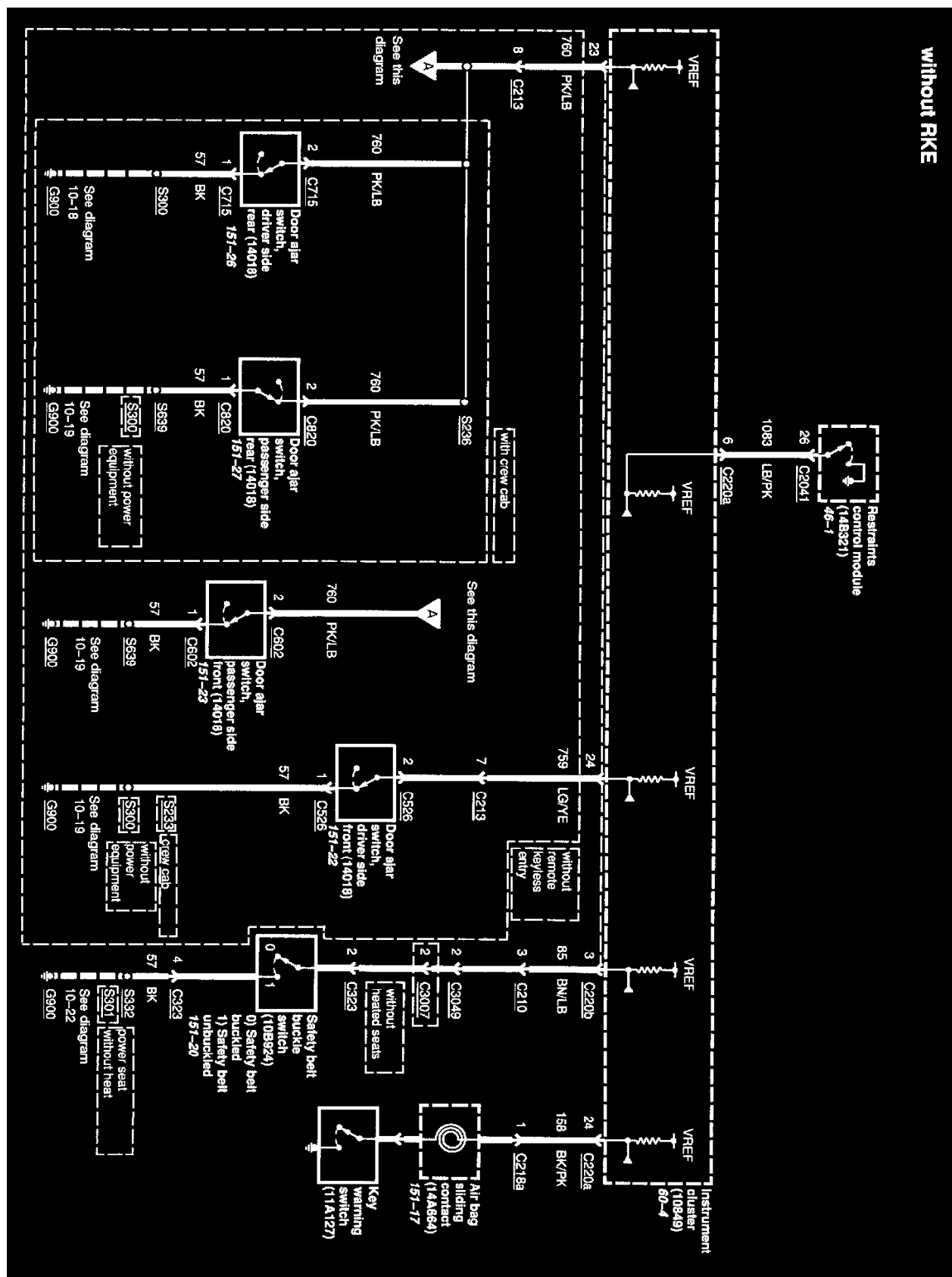
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

### Warning Devices

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





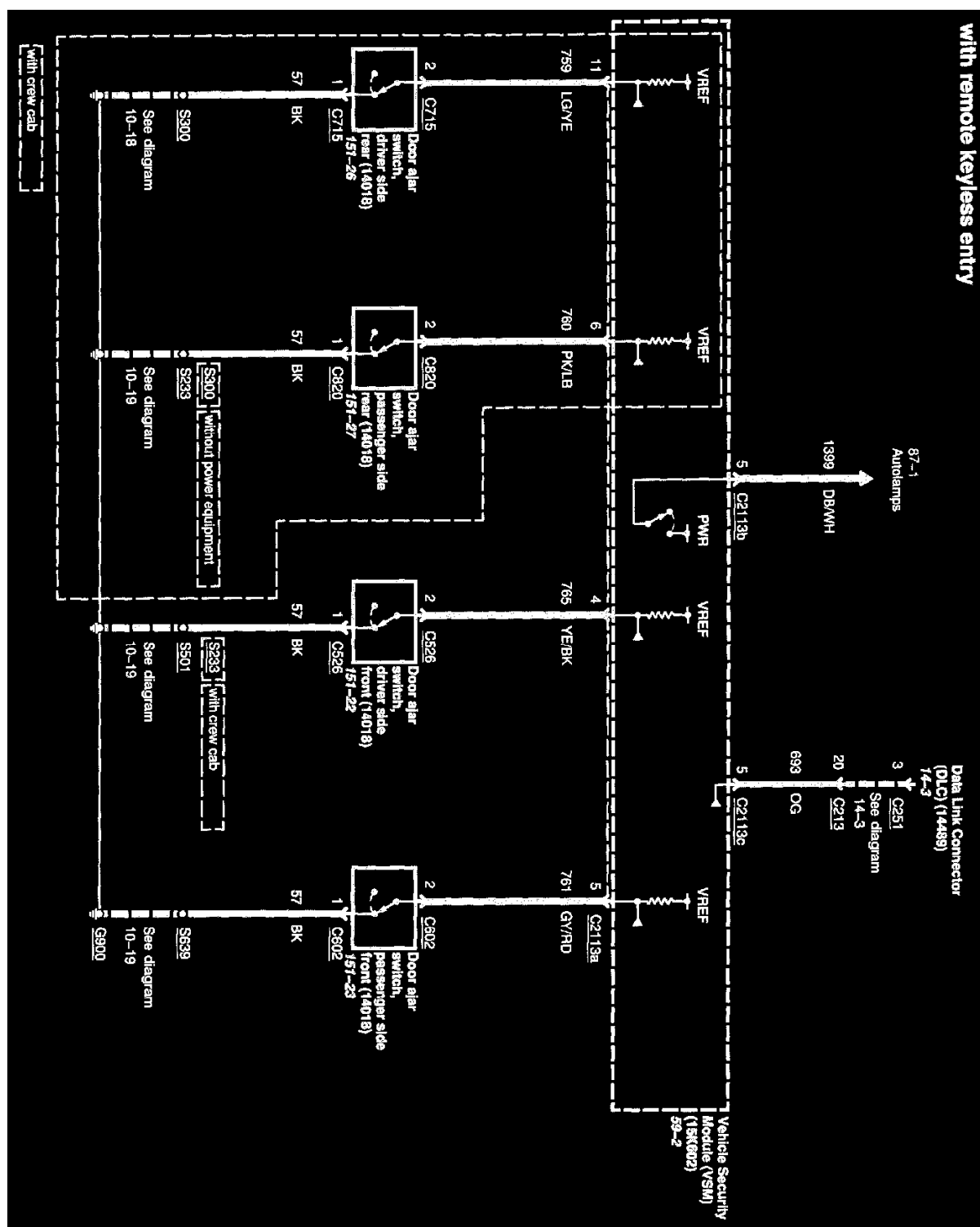


**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**Audible Warning Device**

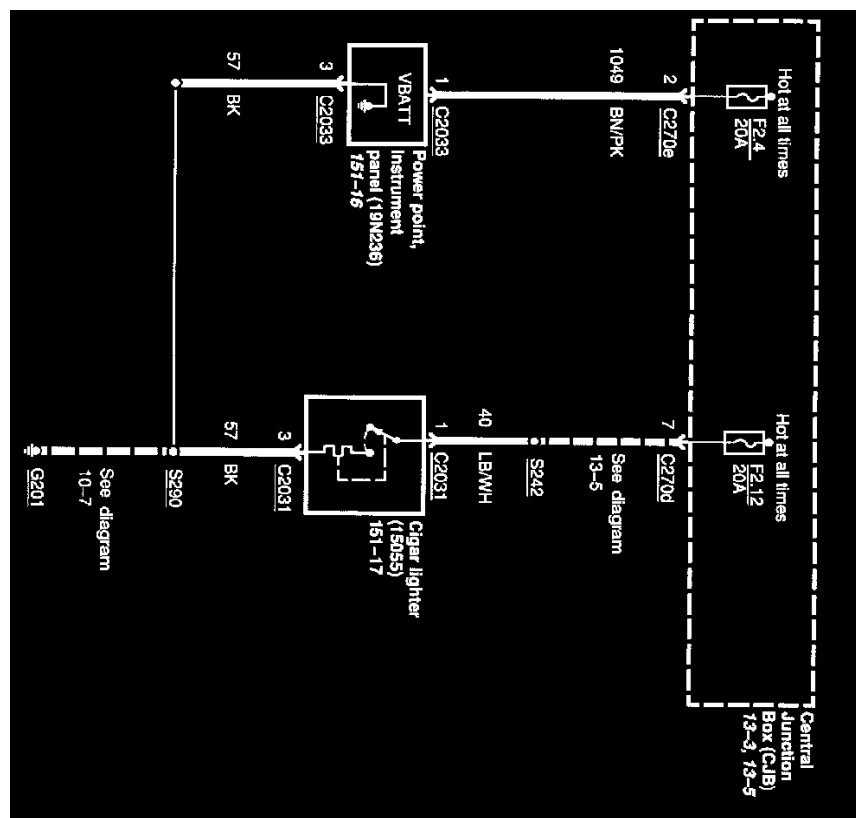
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





## Cigarette Lighter

[illegible]



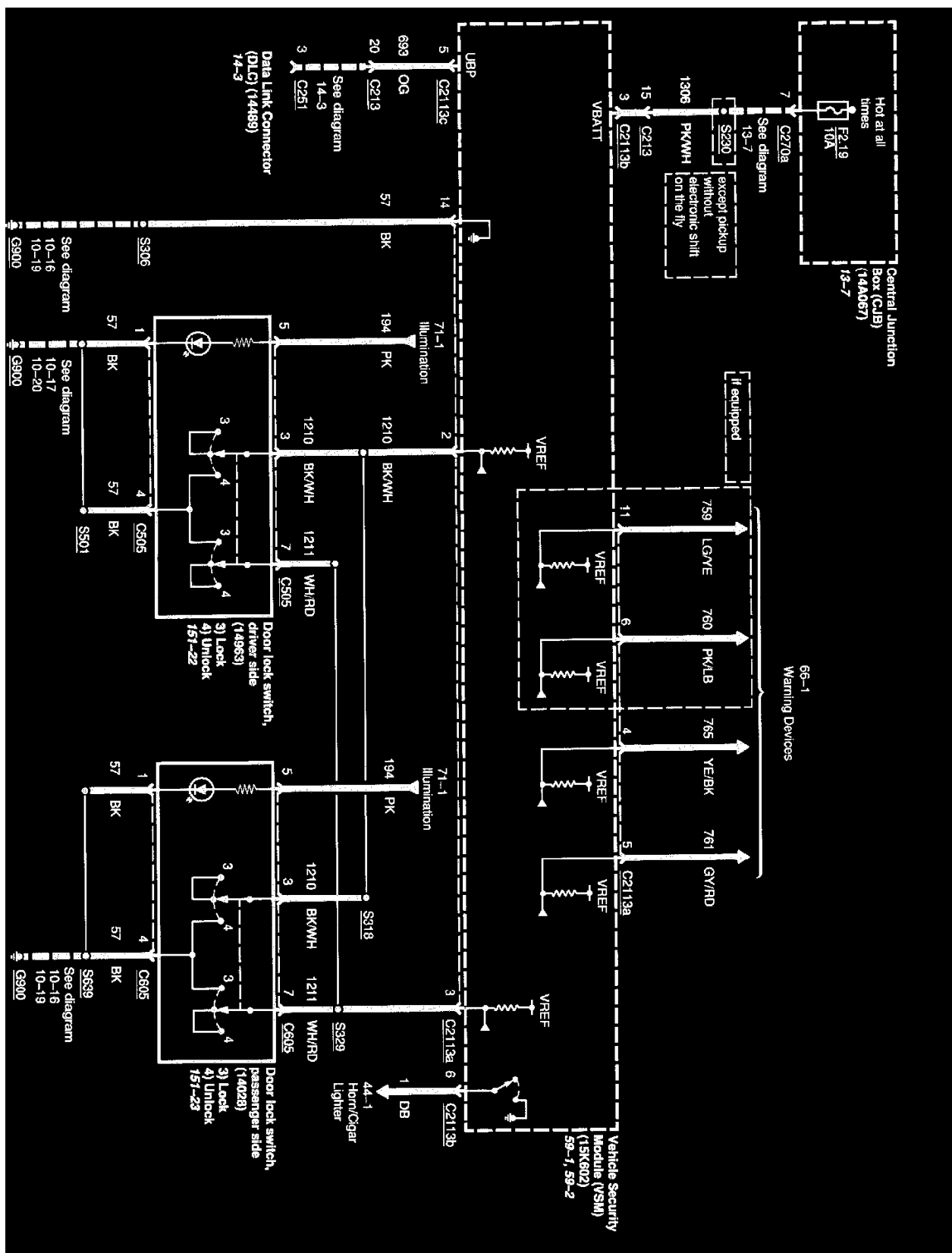
44-2

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

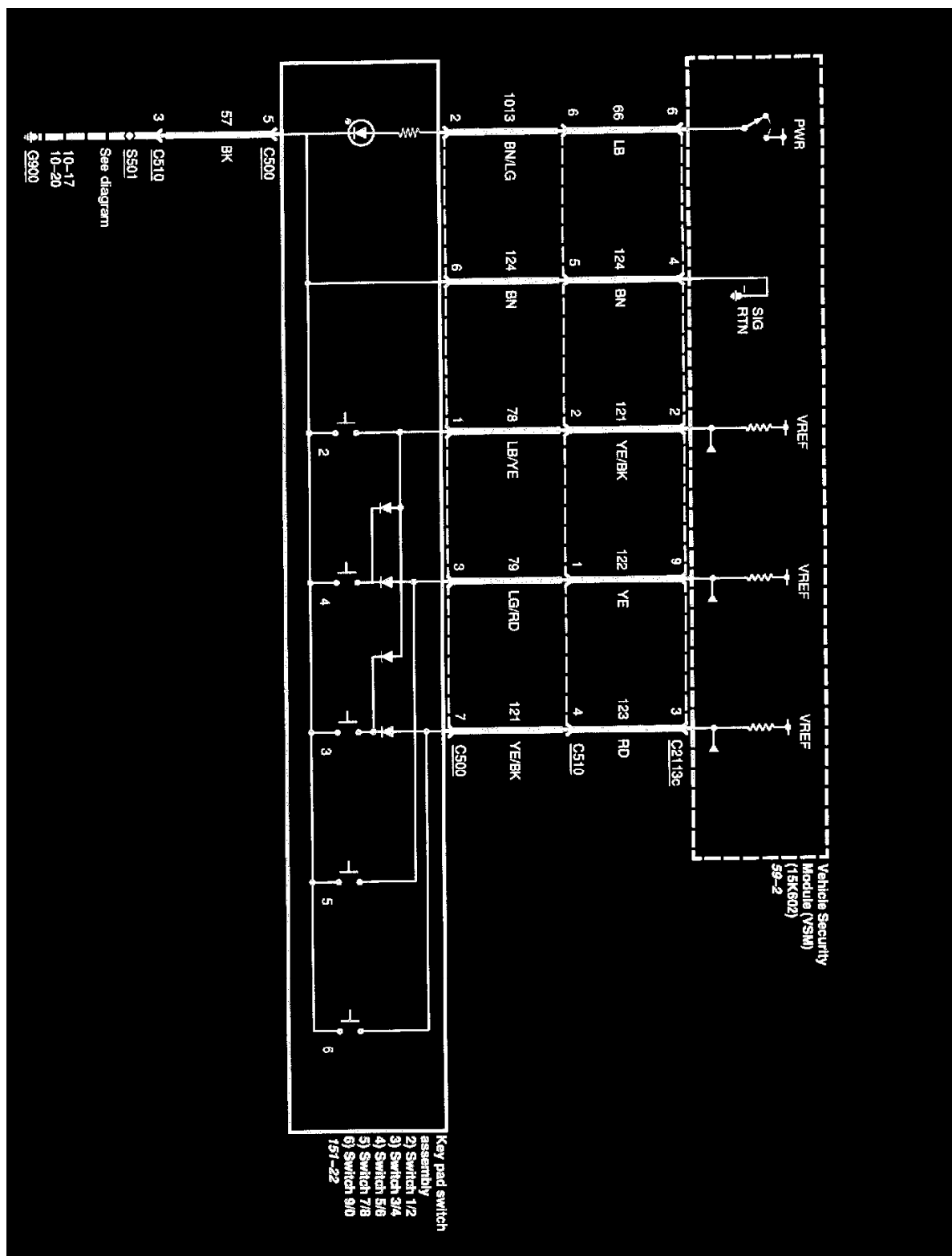
### Keyless Entry

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.









117-3

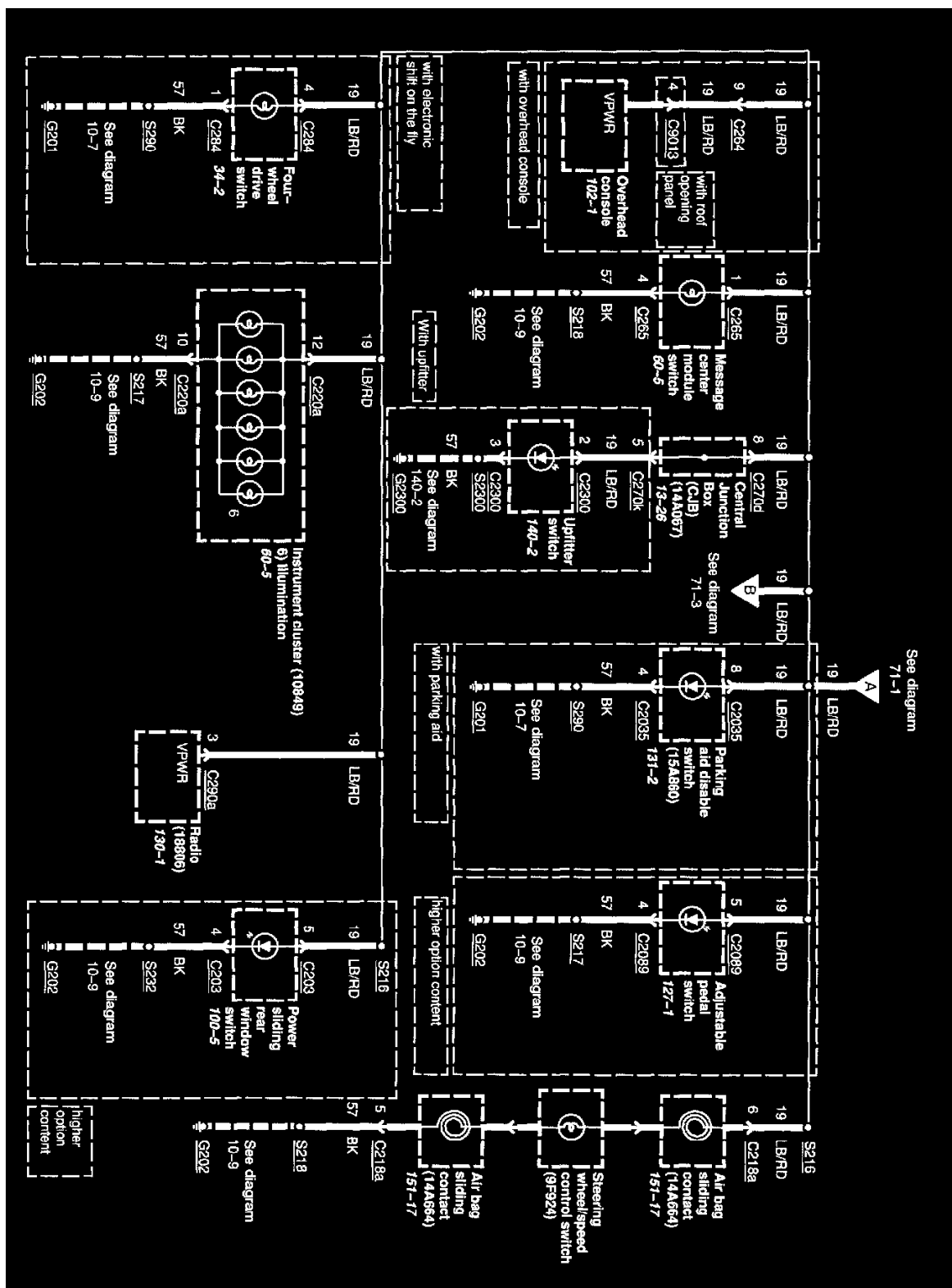
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

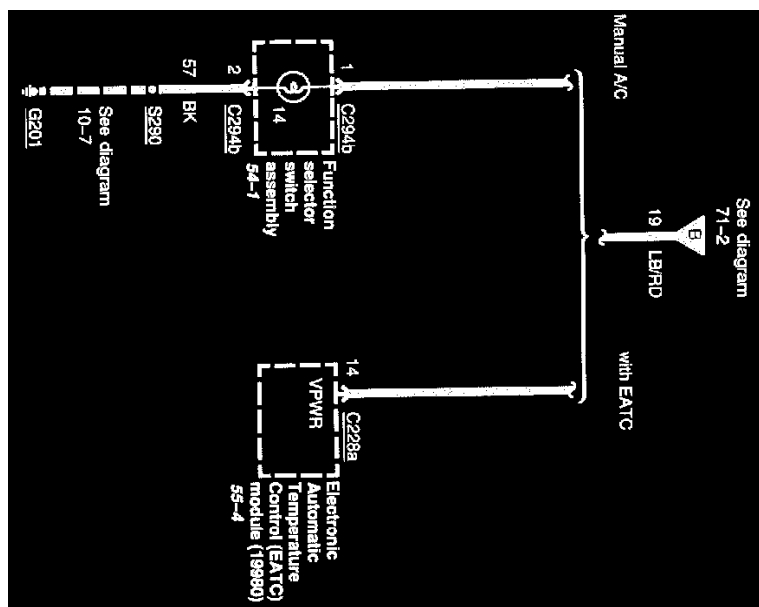
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## System Diagram

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.







71-3

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Backup Lamp

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

**Gasoline**

The diagram illustrates the electrical system for a Gasoline engine. It features a Central Junction Box (CJB) (14A067) at the top, which is connected to an Ignition switch (11572) with positions: 0) Off, 1) Acc, 2) Run, 3) Start, and 4) Lock. The Ignition switch is connected to the CJB via a 30A fuse (F2.116) and a 30A DB/OG fuse (C270e). The CJB is also connected to a 15A fuse (F2.8) and a 15A DB/OG fuse (C270c). The diagram shows the following components and their connections:

- Central Junction Box (CJB) (14A067):** Connected to the Ignition switch and various relays.
- Ignition switch (11572):** Controls the flow of electricity to the CJB.
- Reversing lamp relay (11-1):** Connected to the CJB and the Reversing lamps (151-14).
- Power relay (11-1):** Connected to the CJB and the PCM power diode.
- PCM power diode:** Connected to the Power relay and the PCM.
- PCM (14A067):** Connected to the Power relay and the PCM power diode.
- Reversing lamps (151-14):** Connected to the Reversing lamp relay.
- Automatic transmission:** Connected to the PCM and the Reversing lamp relay.
- Manual transmission:** Connected to the PCM and the Reversing lamp relay.
- Wiring colors and terminals:** Various wires are labeled with colors (e.g., BK/PK, YE/LG, BK) and terminal numbers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).

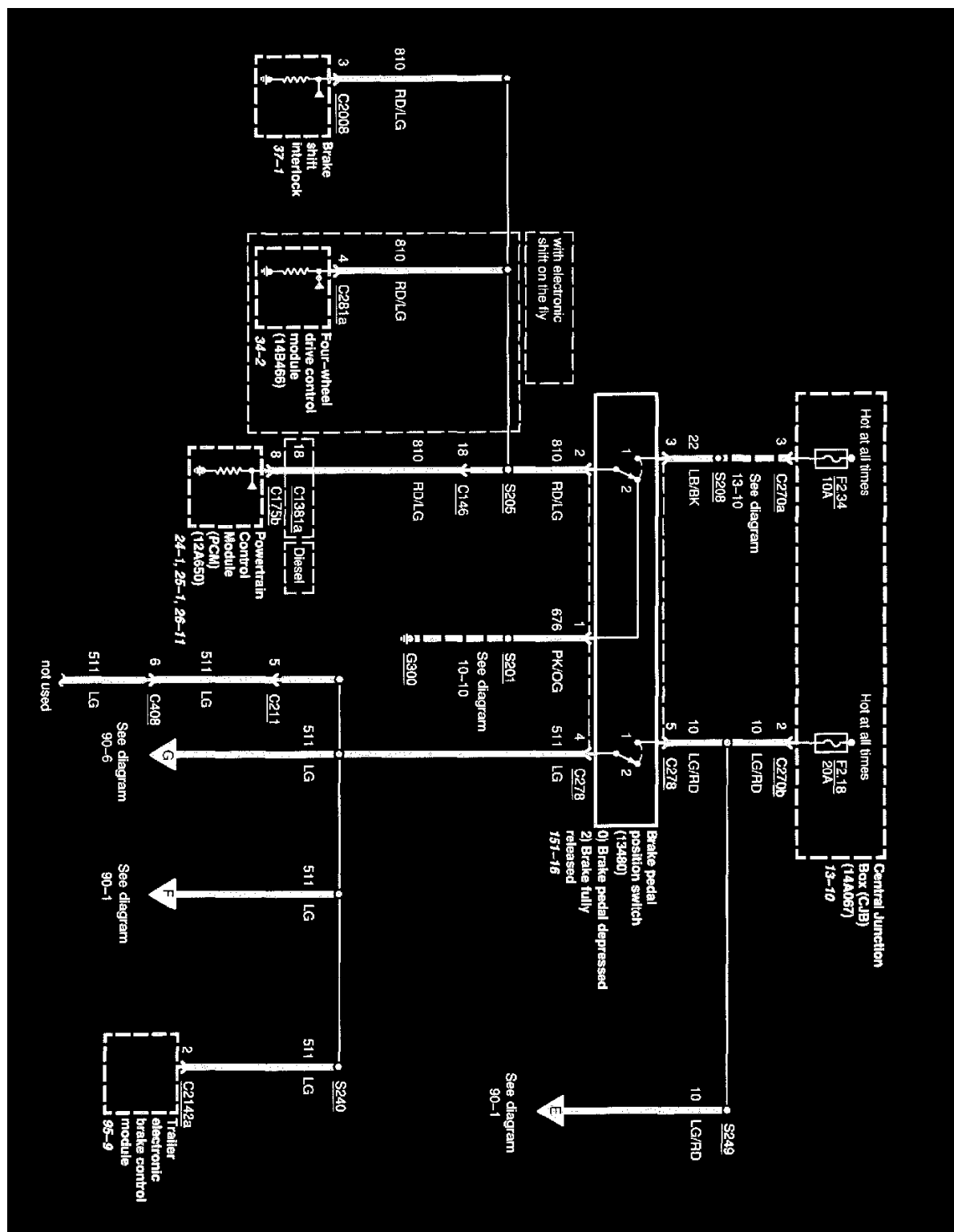


## Brake Lamp

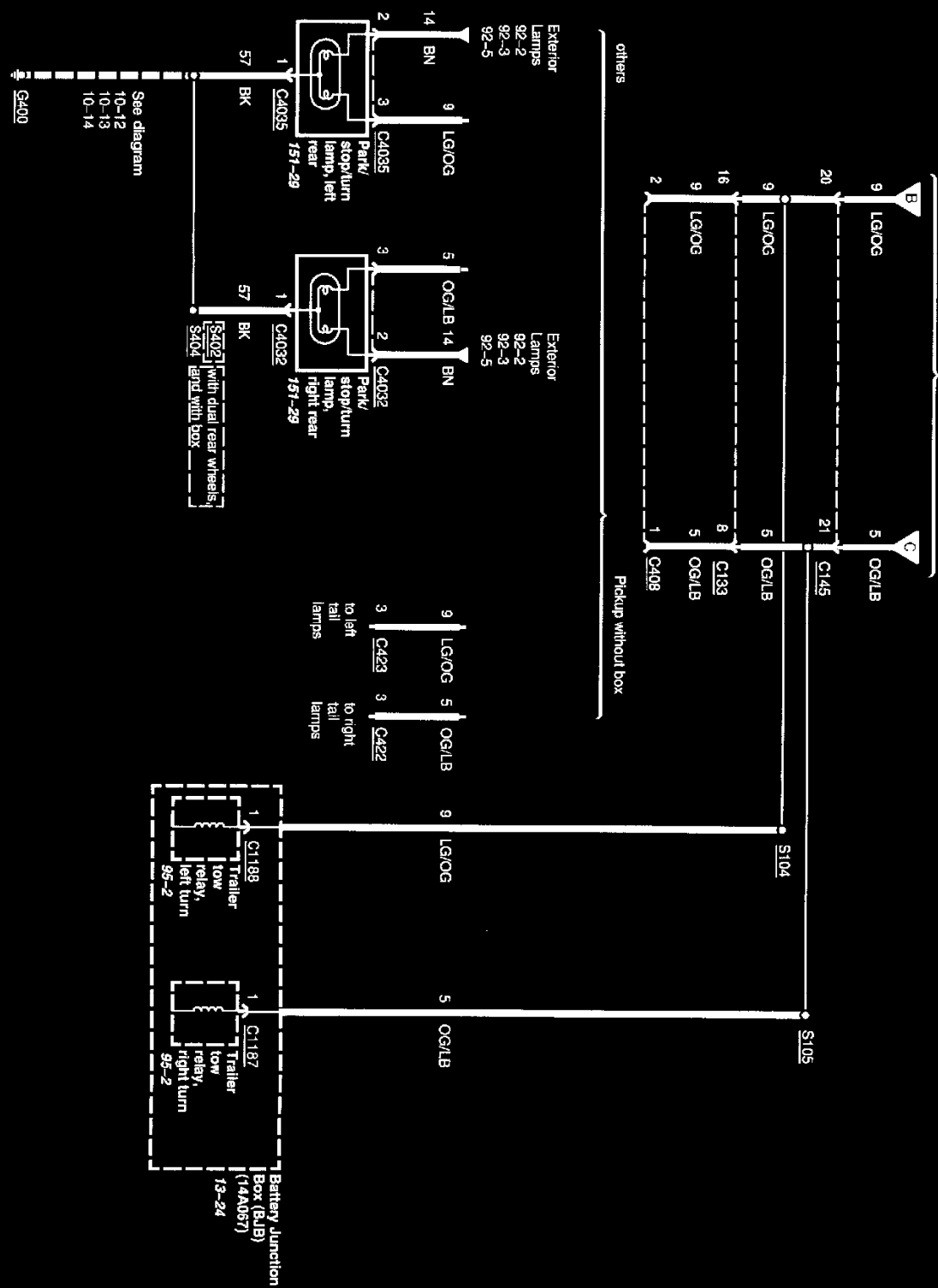


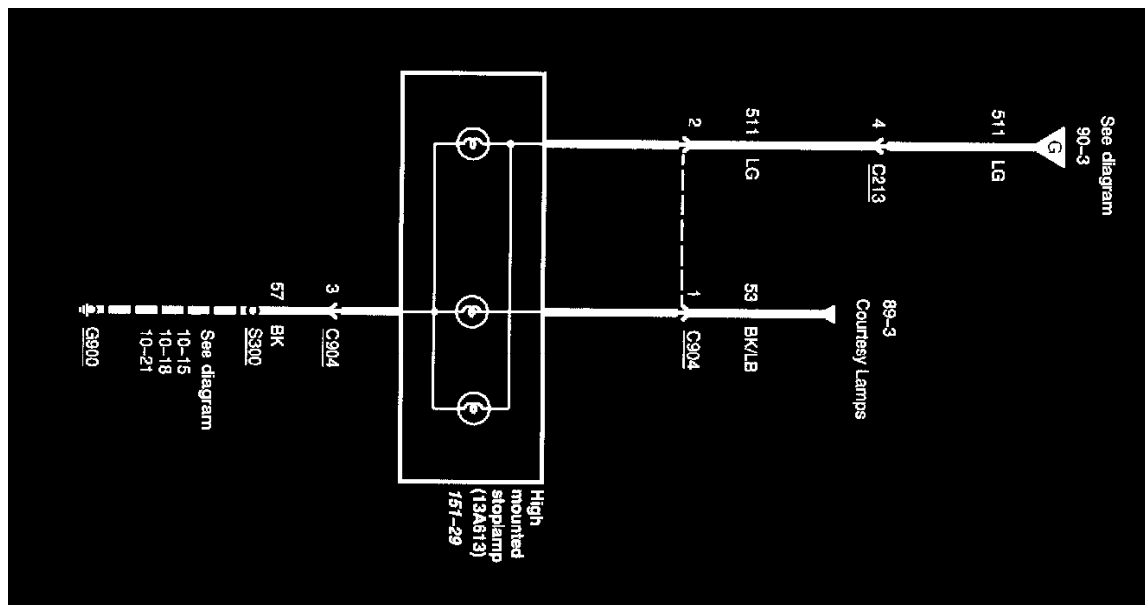






## Gasoline

See diagram  
90-1



90-6

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

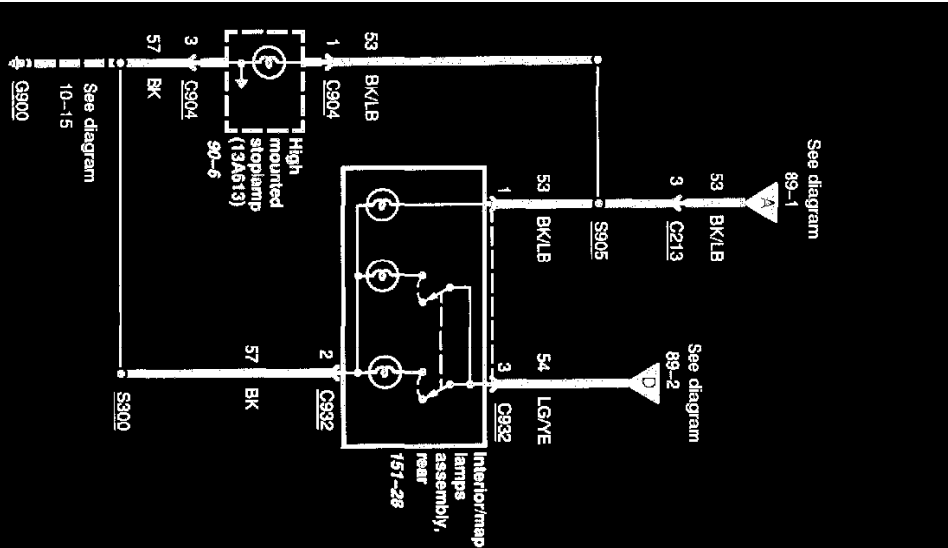
### Courtesy Lamp

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

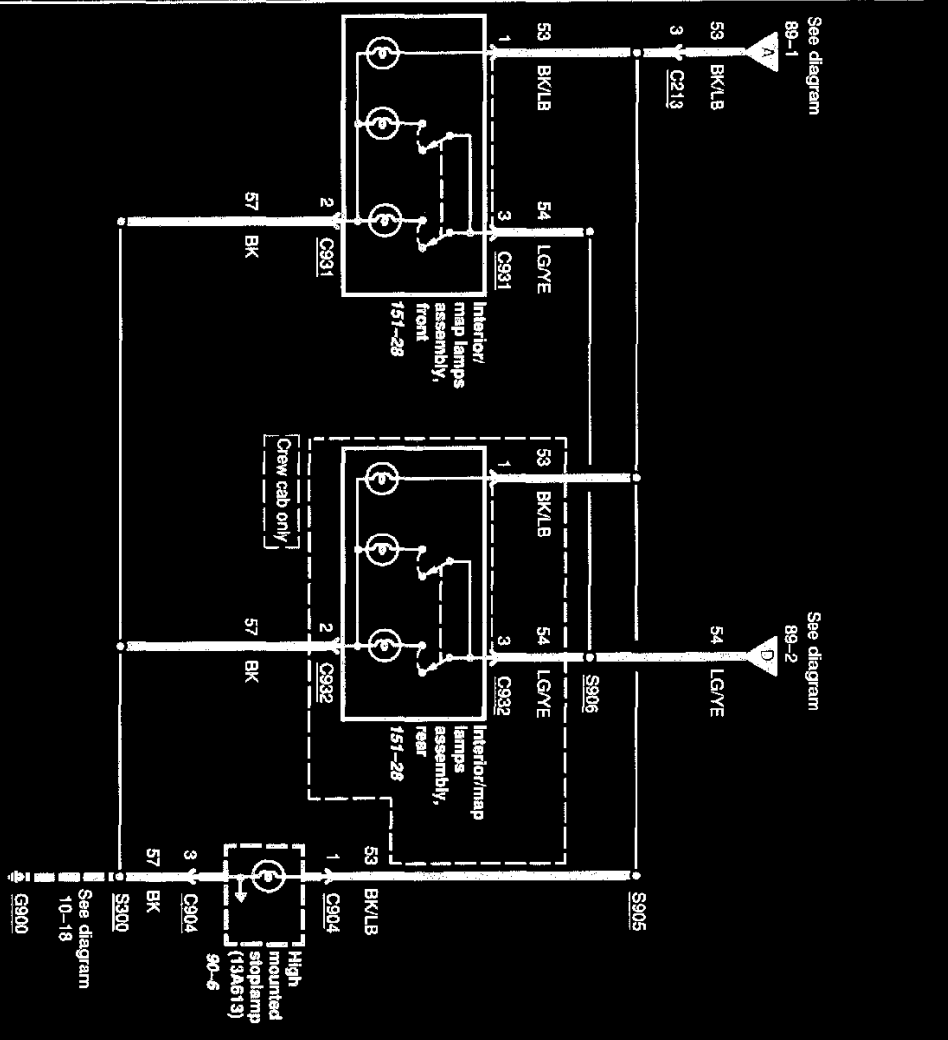




# Regular cab



# Crew & Super cab

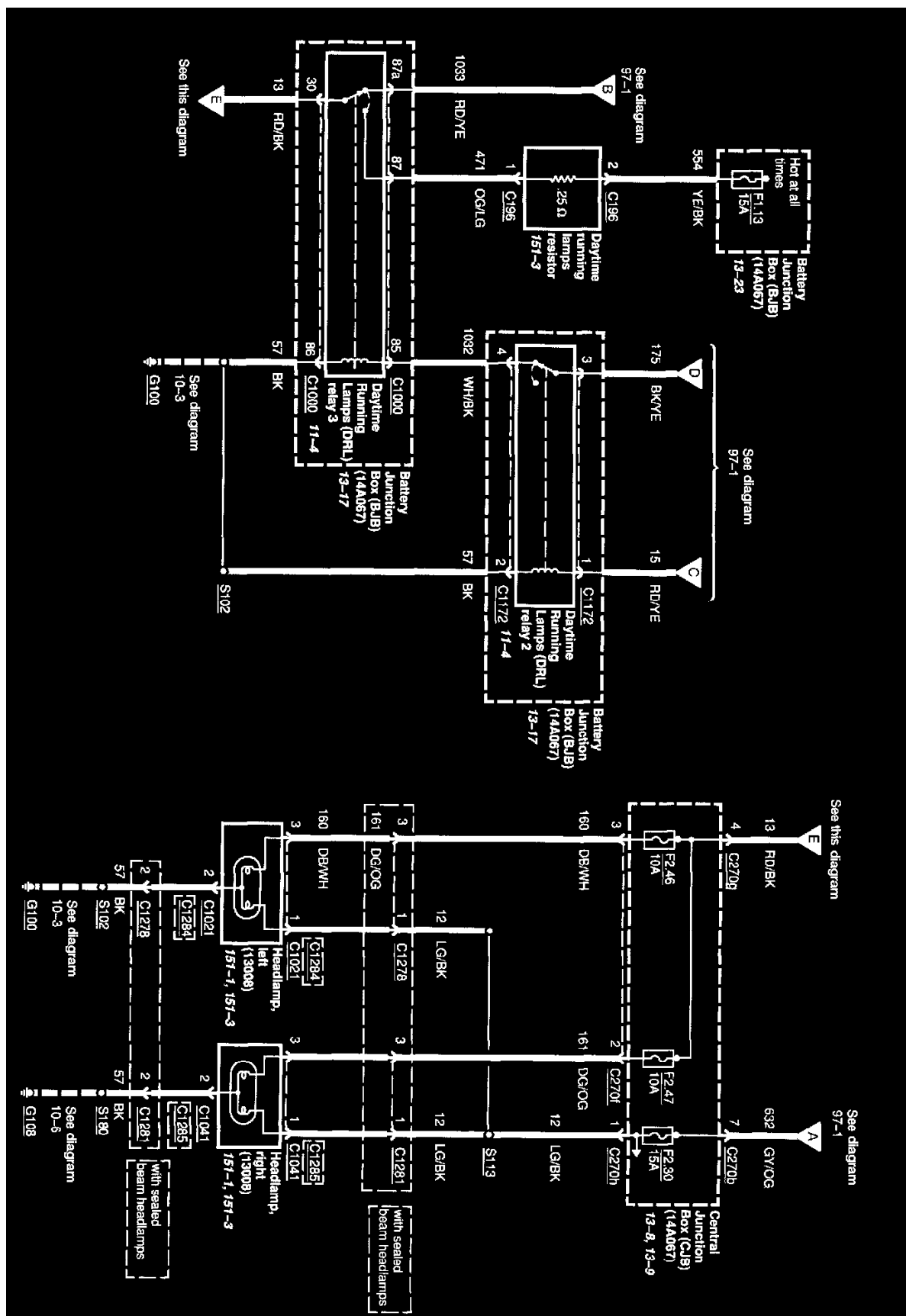




**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





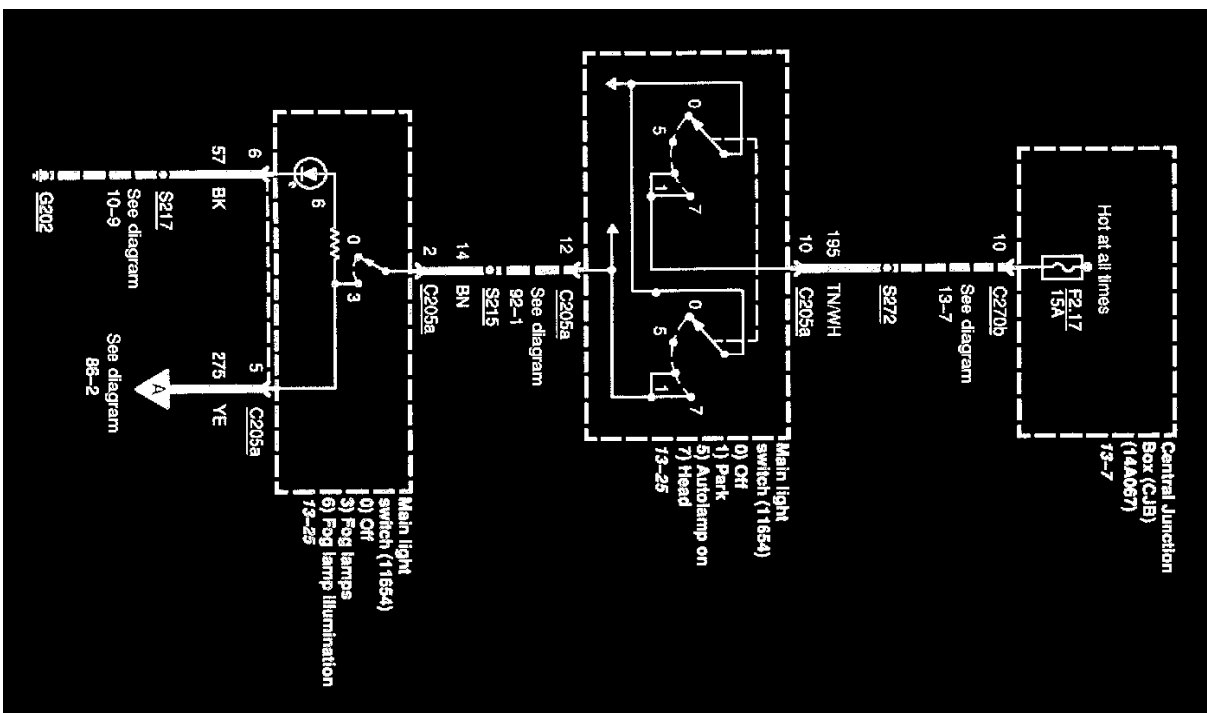


97-2

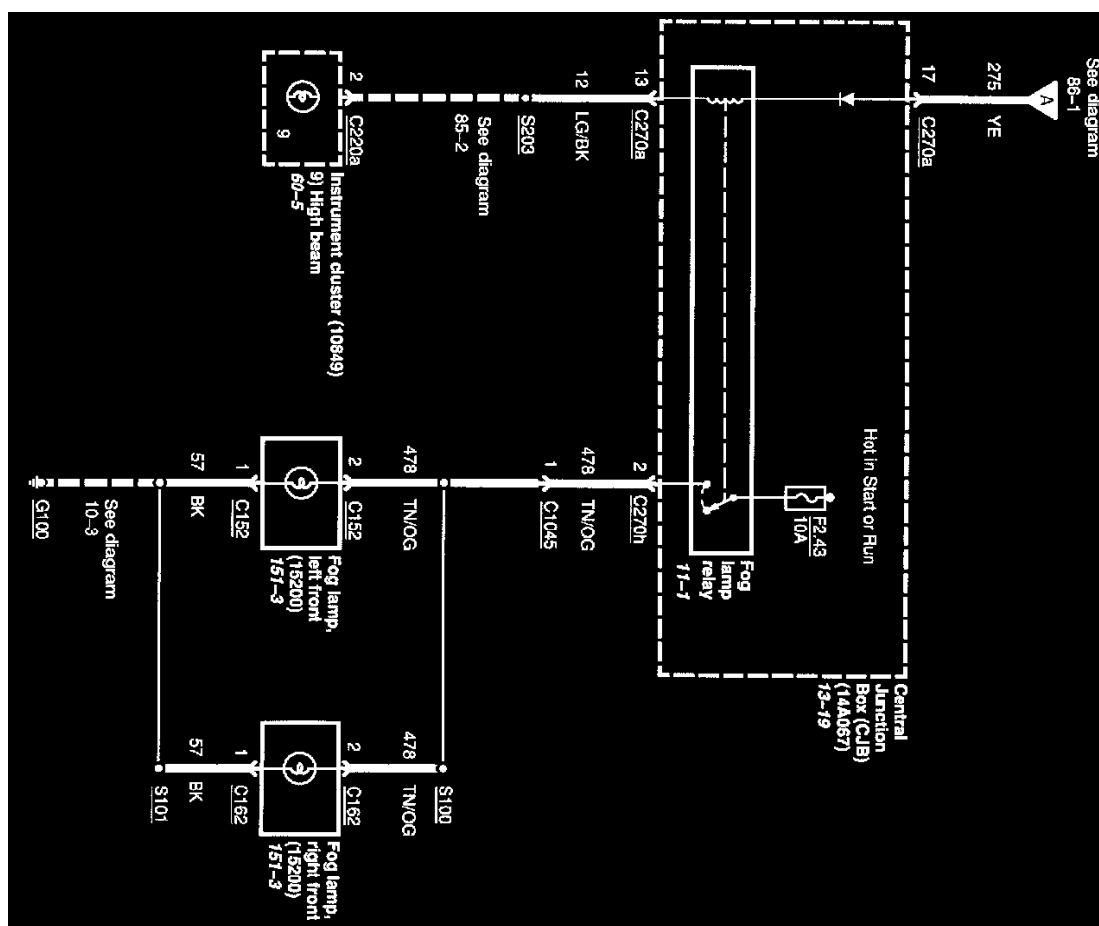
**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**86-1**



**86-2**

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See:

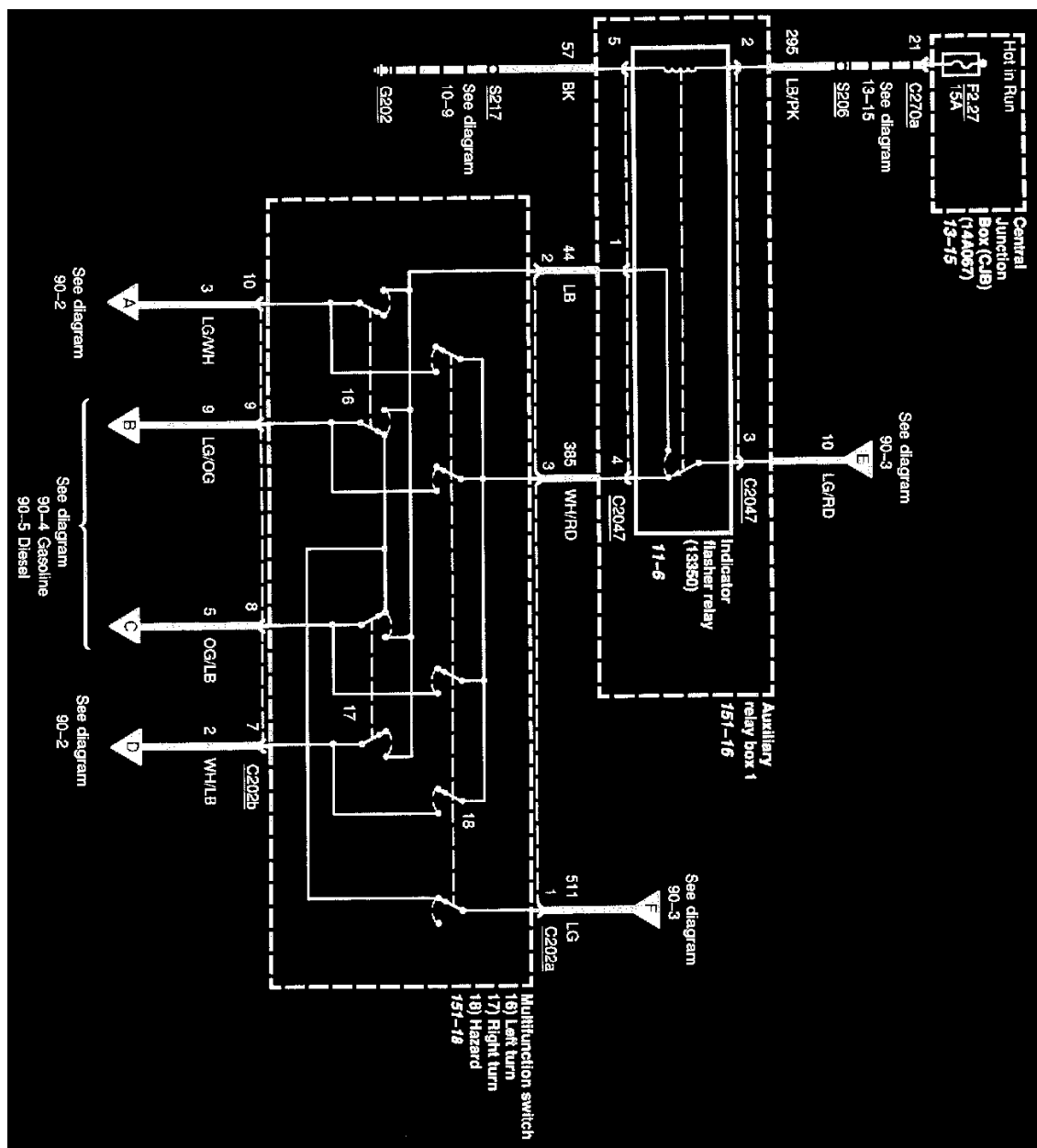
## Electrical Diagrams/Diagrams By Number

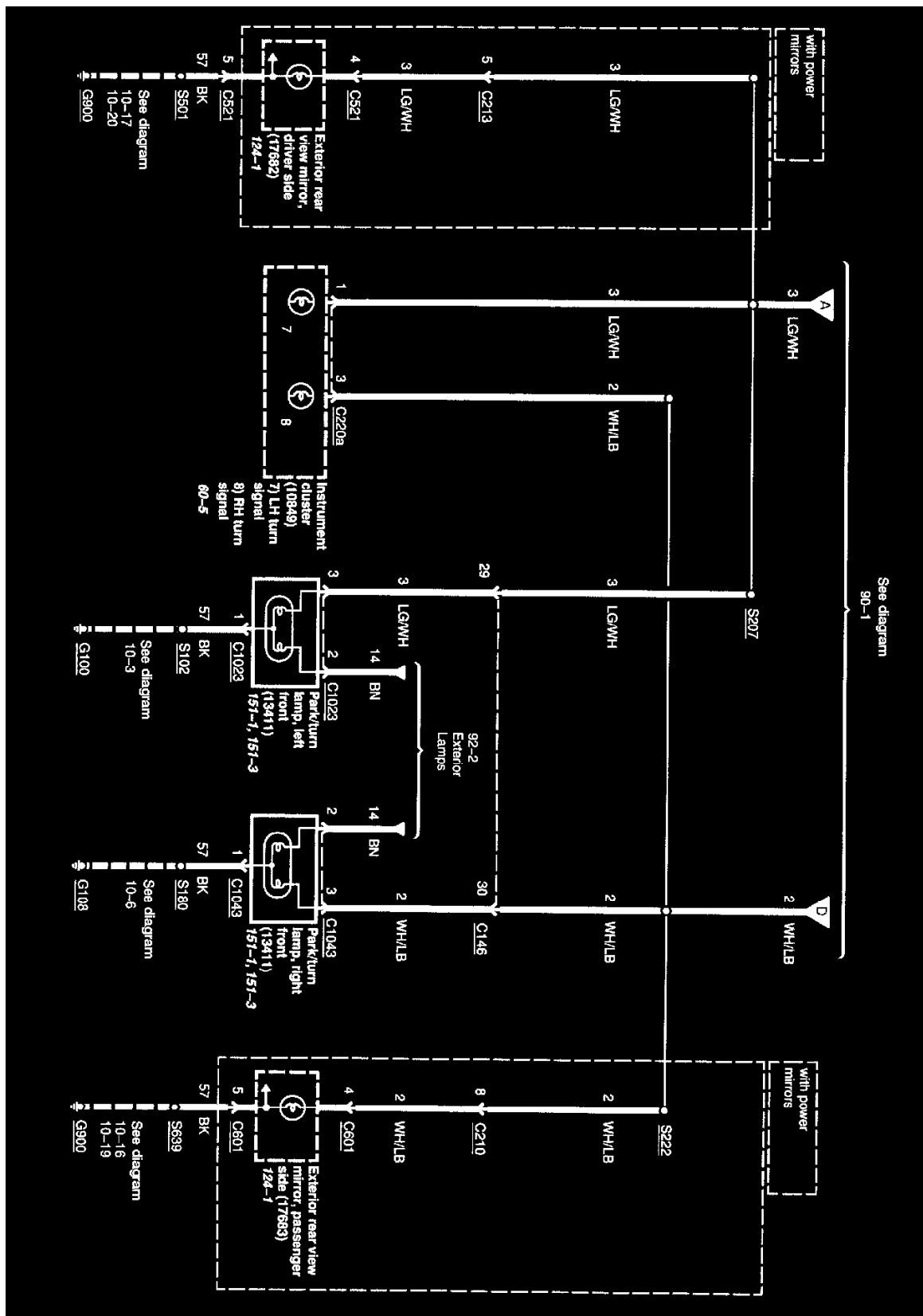
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

## Hazard Warning Lamps

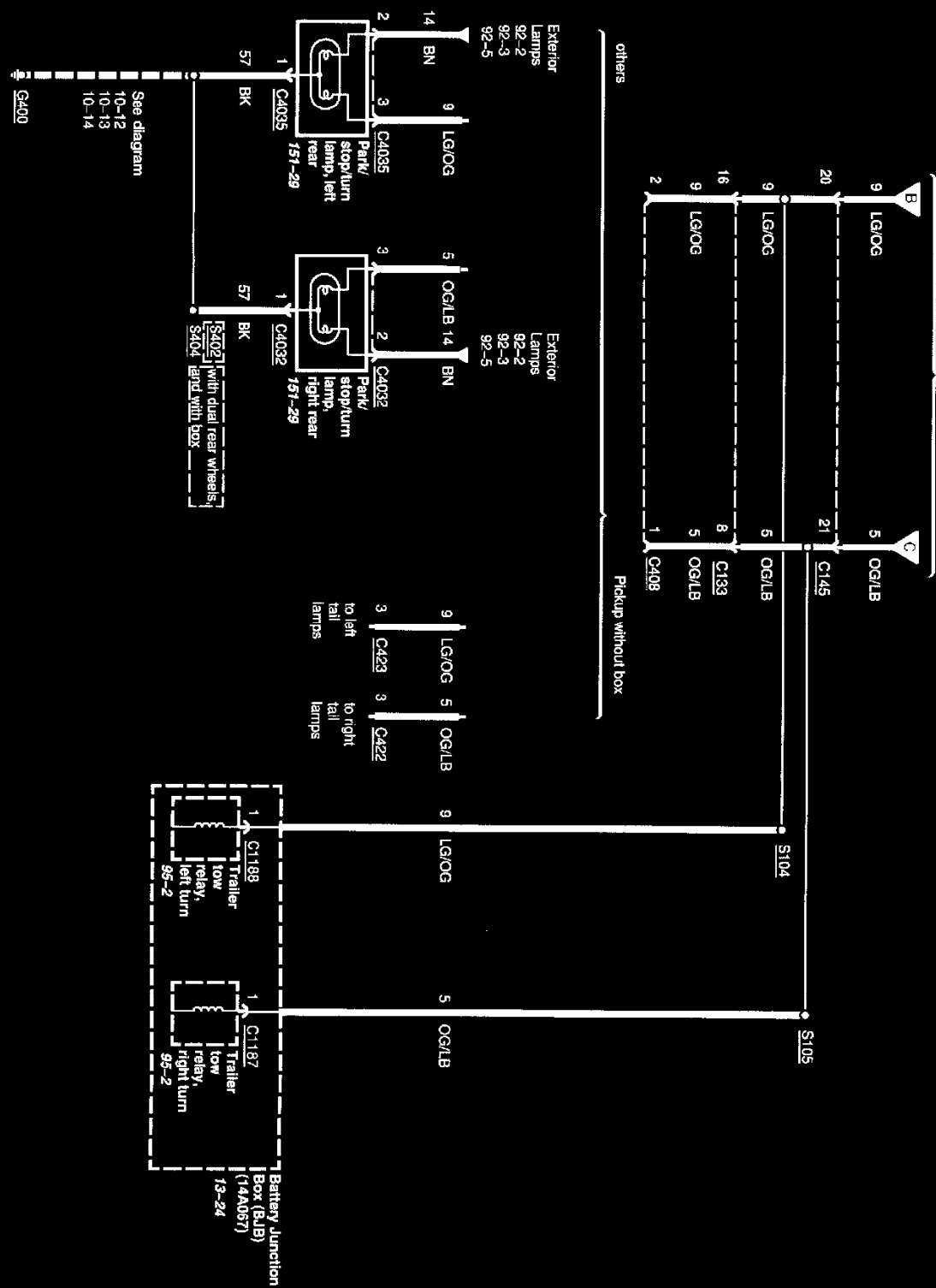
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

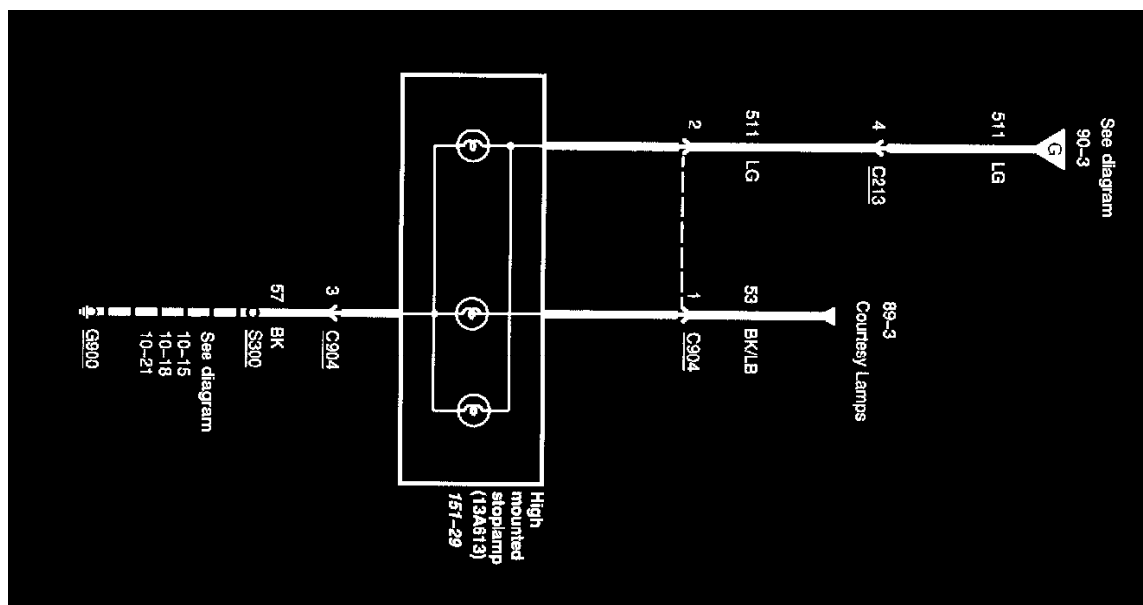






## Gasoline

See diagram  
90-1



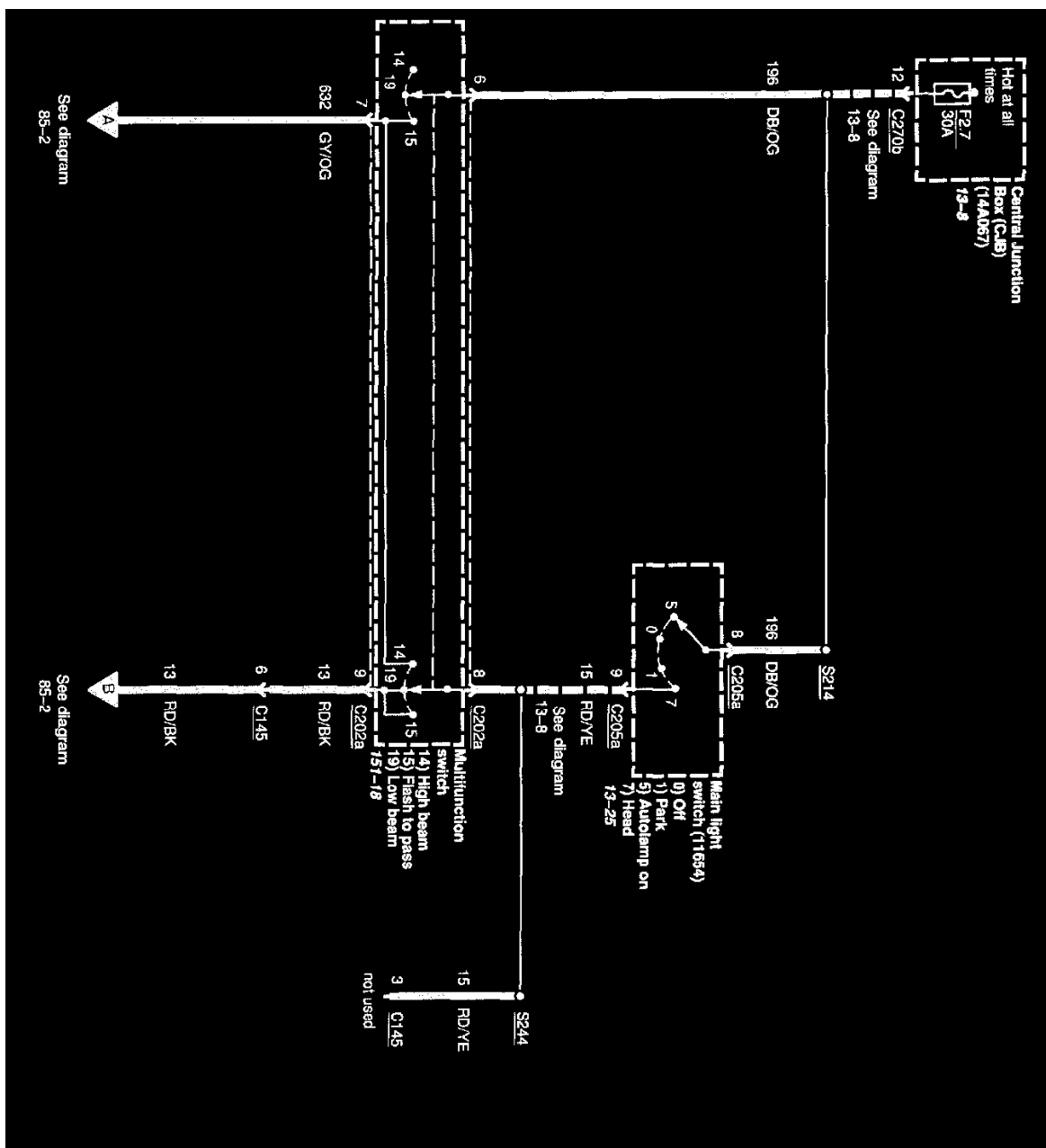
90-6

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Headlamps

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.







**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





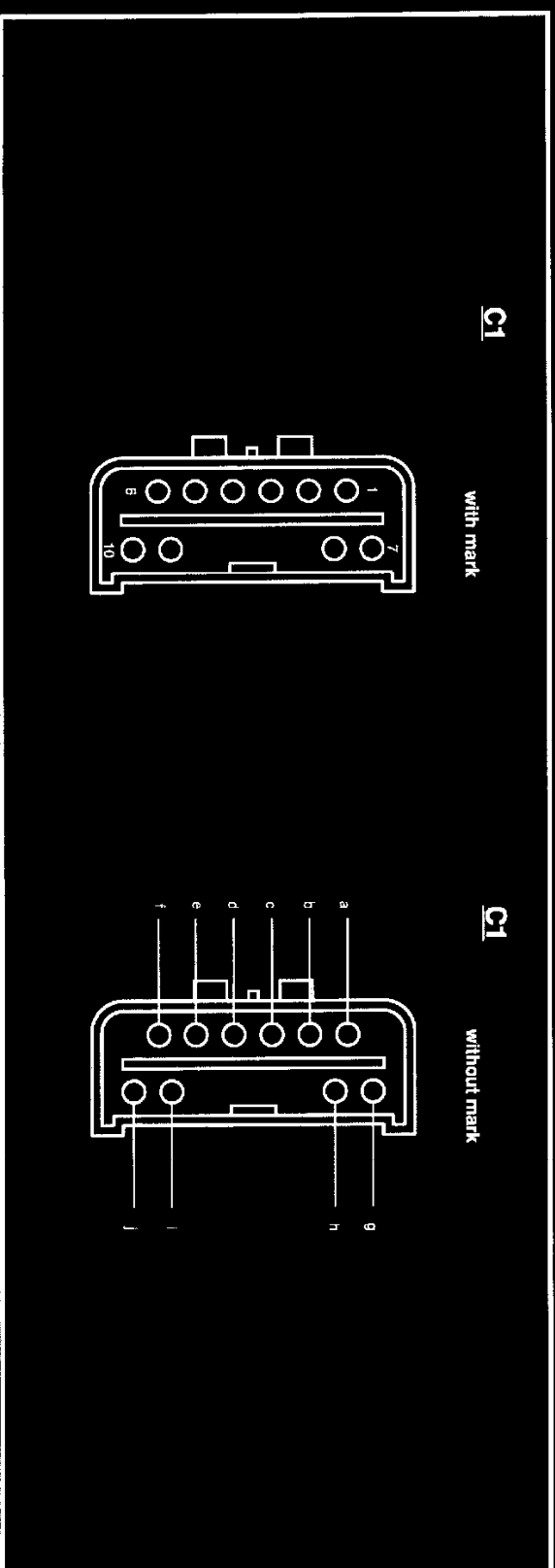
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.  
See: Components/Component Location Views

## Introduction

Component testing procedures are provided to determine whether a component is good or bad.

Testing information for each component includes a schematic, a view of the terminal locations and step-by-step test procedures. Terminal locations are identified by numbers or letters that may be on the component or next to it.

## Terminals

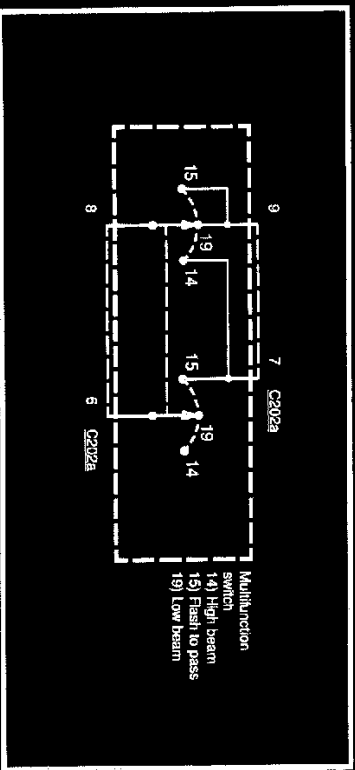


The component connector **MUST BE REMOVED** before testing. To test a single circuit within the component, select that circuit under the column Circuit to test. If you wish to test the complete component, perform all tests.

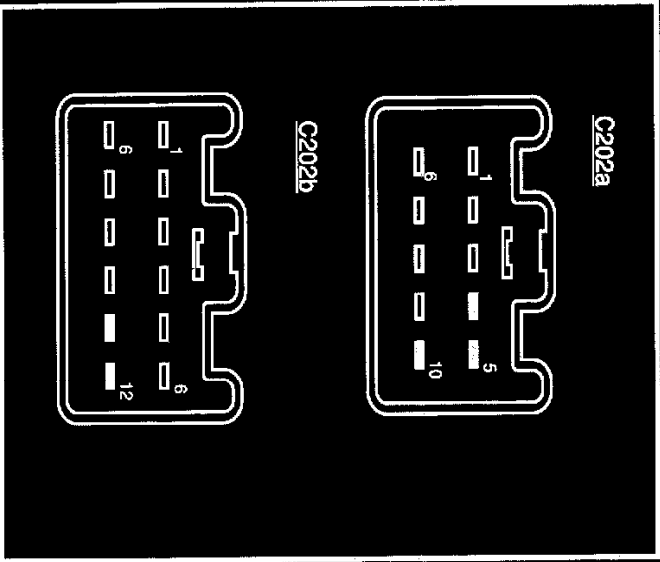
Connect the tester to the terminals shown in the second column and operate the component as shown in the third column.

Multifunction Switch, Lamp Portion (continued)

Schematic

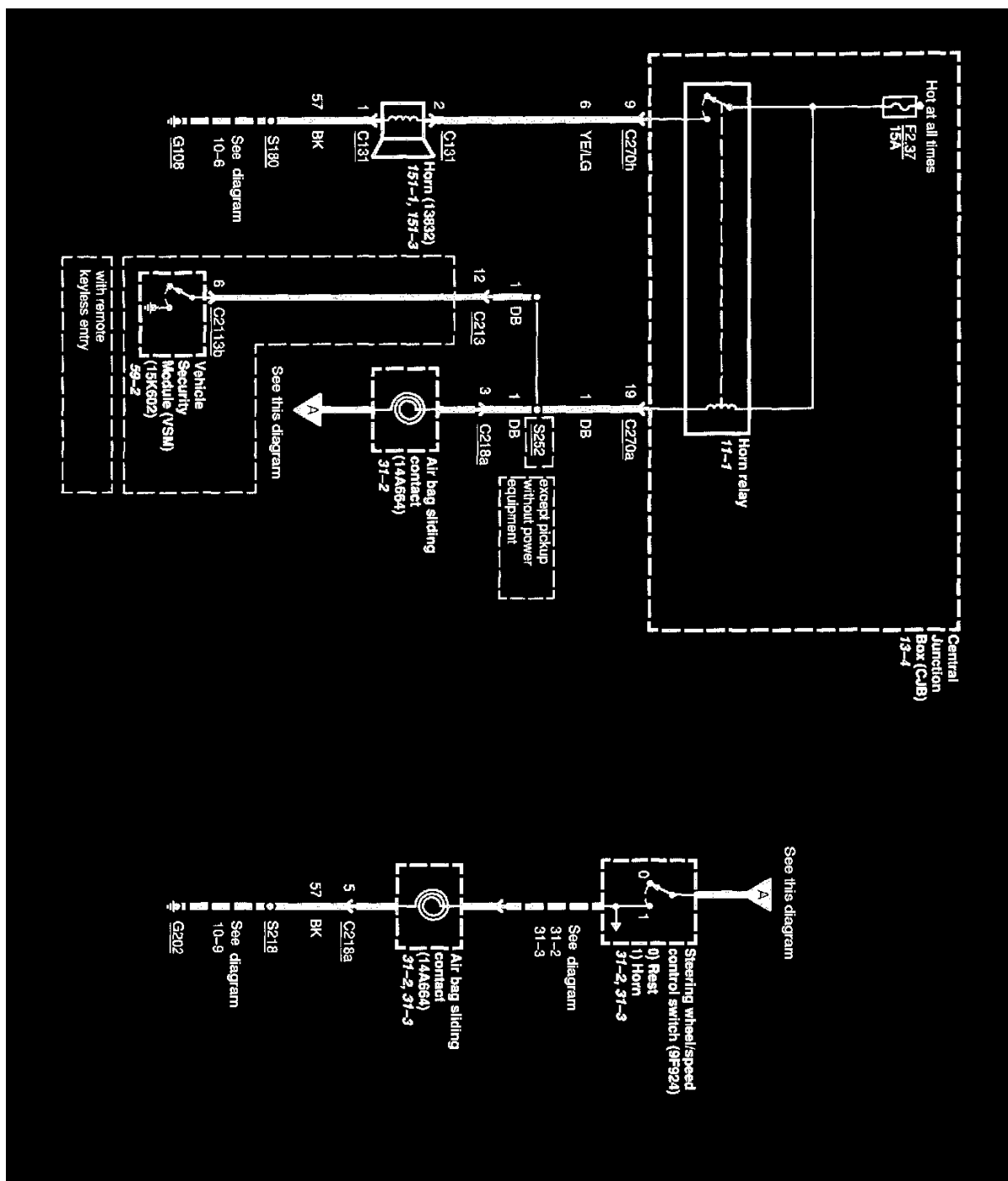


Terminals



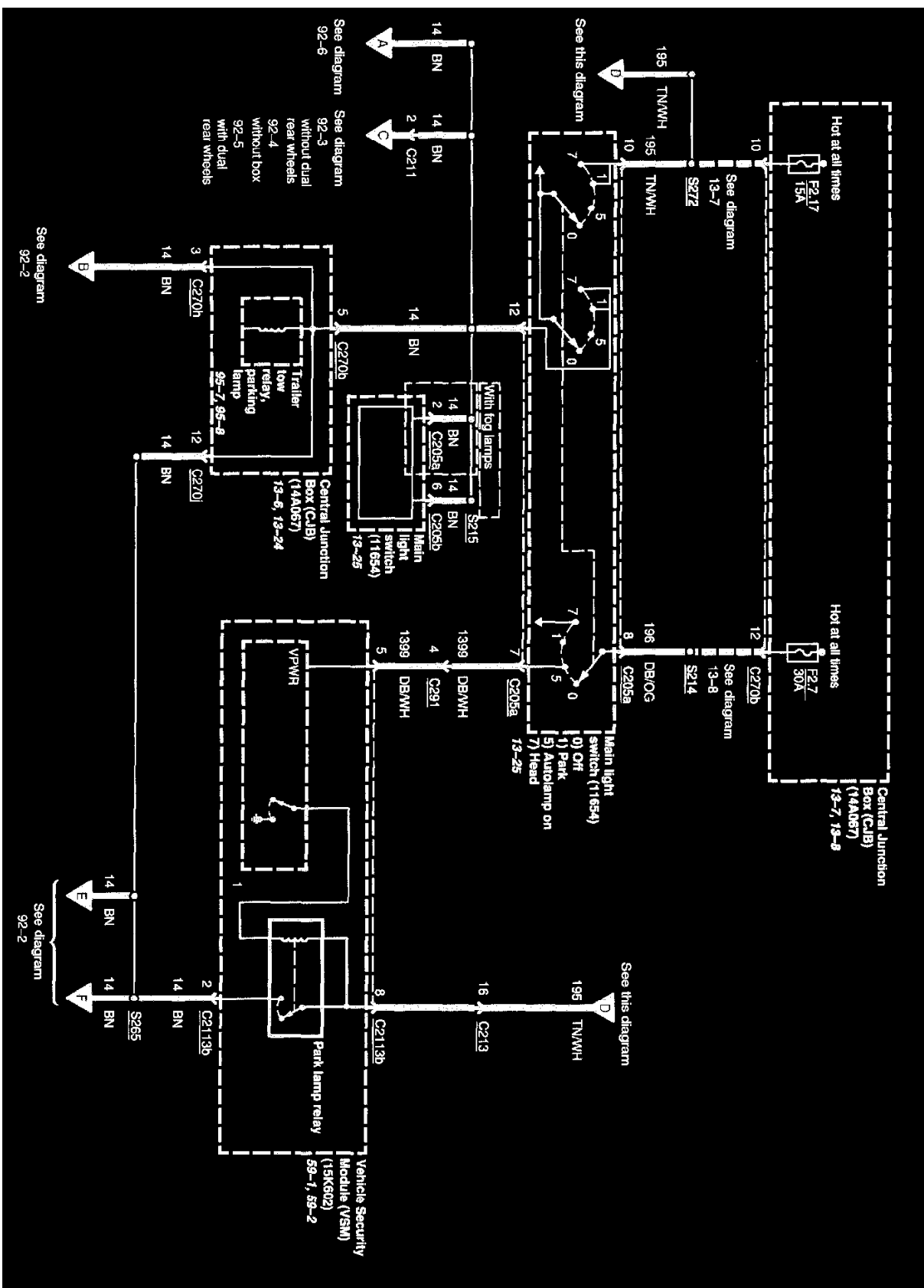
Component testing procedure

| Circuit to test | Connect self-powered test light or ohmmeter to terminals | Move switch to these positions | A good switch will indicate |
|-----------------|----------------------------------------------------------|--------------------------------|-----------------------------|
| High beam       | 8 and 7                                                  | High beam                      | Closed circuit              |
|                 |                                                          | Flash-to-pass                  | Open circuit                |
|                 |                                                          | Low beam                       | Open circuit                |
|                 |                                                          | High beam                      | Open circuit                |
|                 |                                                          | Flash-to-pass                  | Closed circuit              |
|                 |                                                          | Low beam                       | Closed circuit              |
|                 |                                                          | High beam                      | Open circuit                |
|                 |                                                          | Flash-to-pass                  | Closed circuit              |
|                 |                                                          | Low beam                       | Open circuit                |





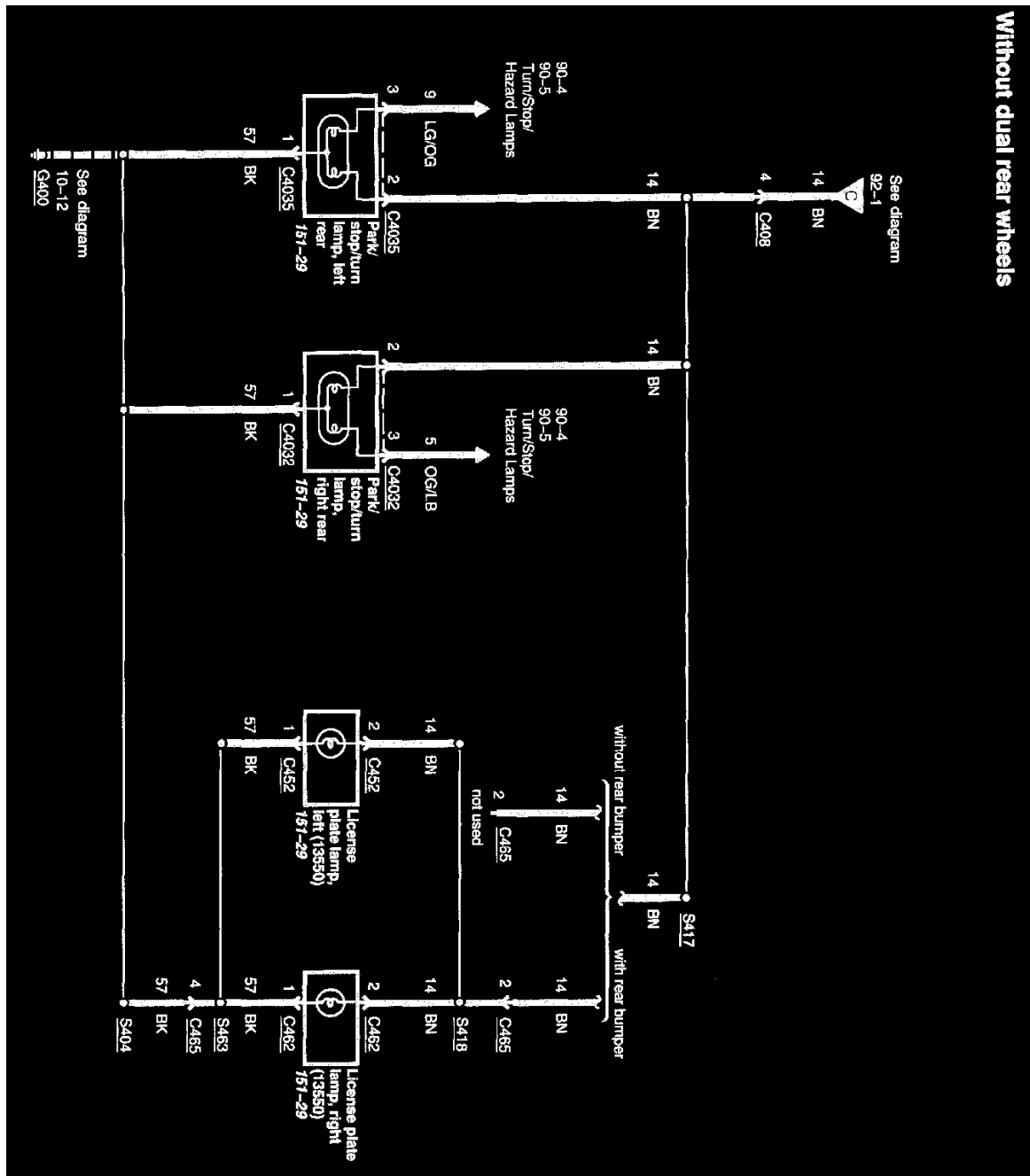
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

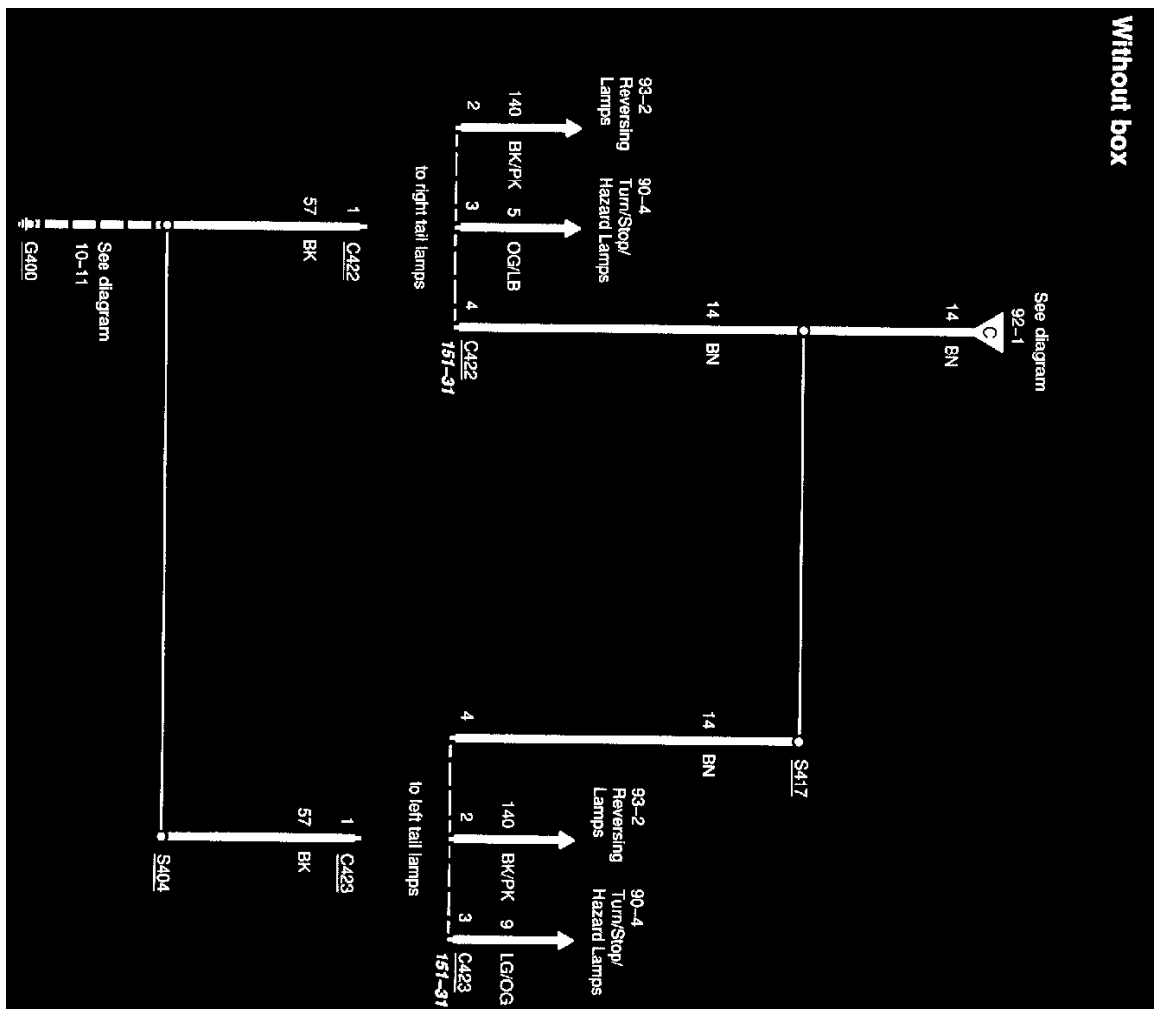




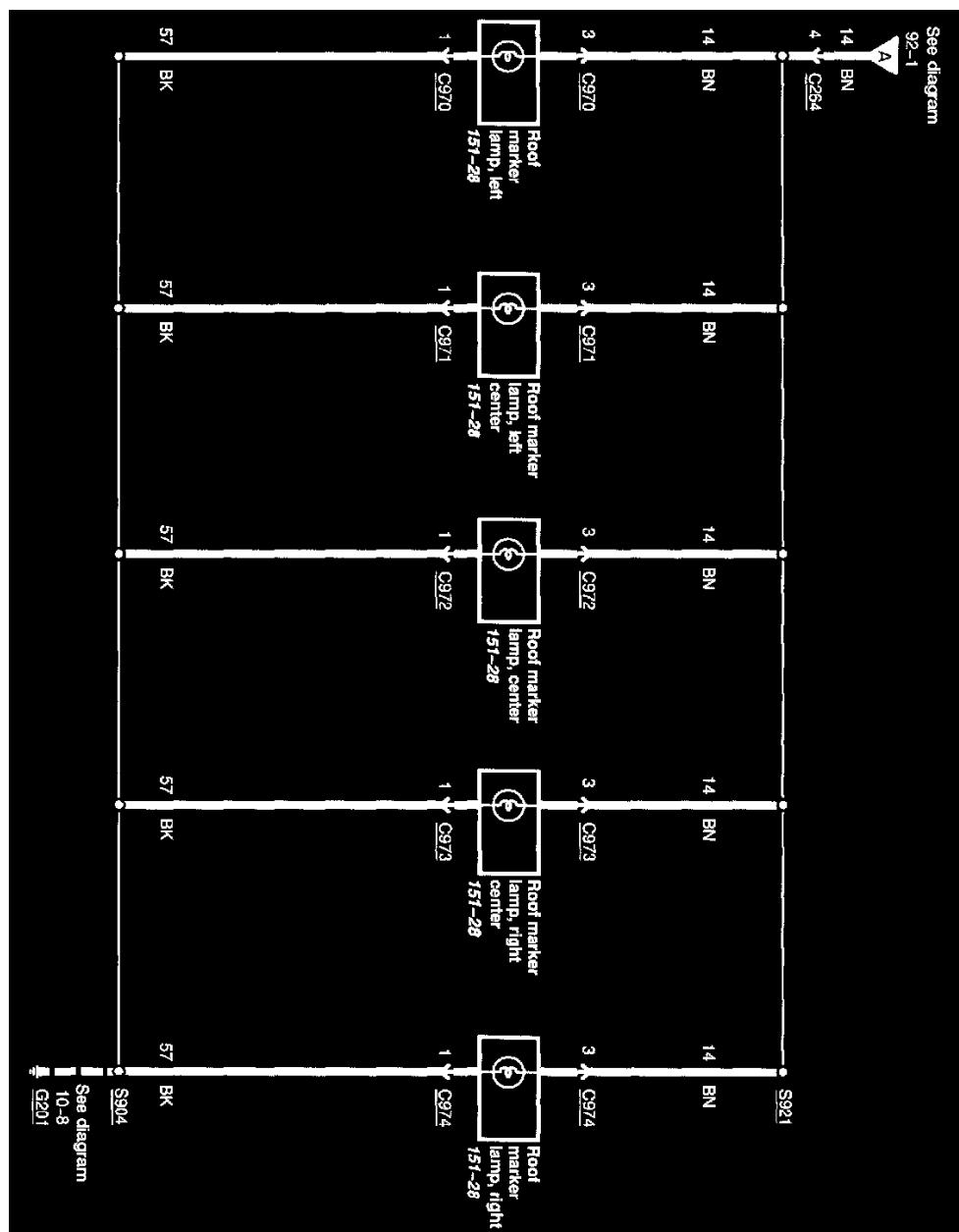


## Without dual rear wheels





[illegible]



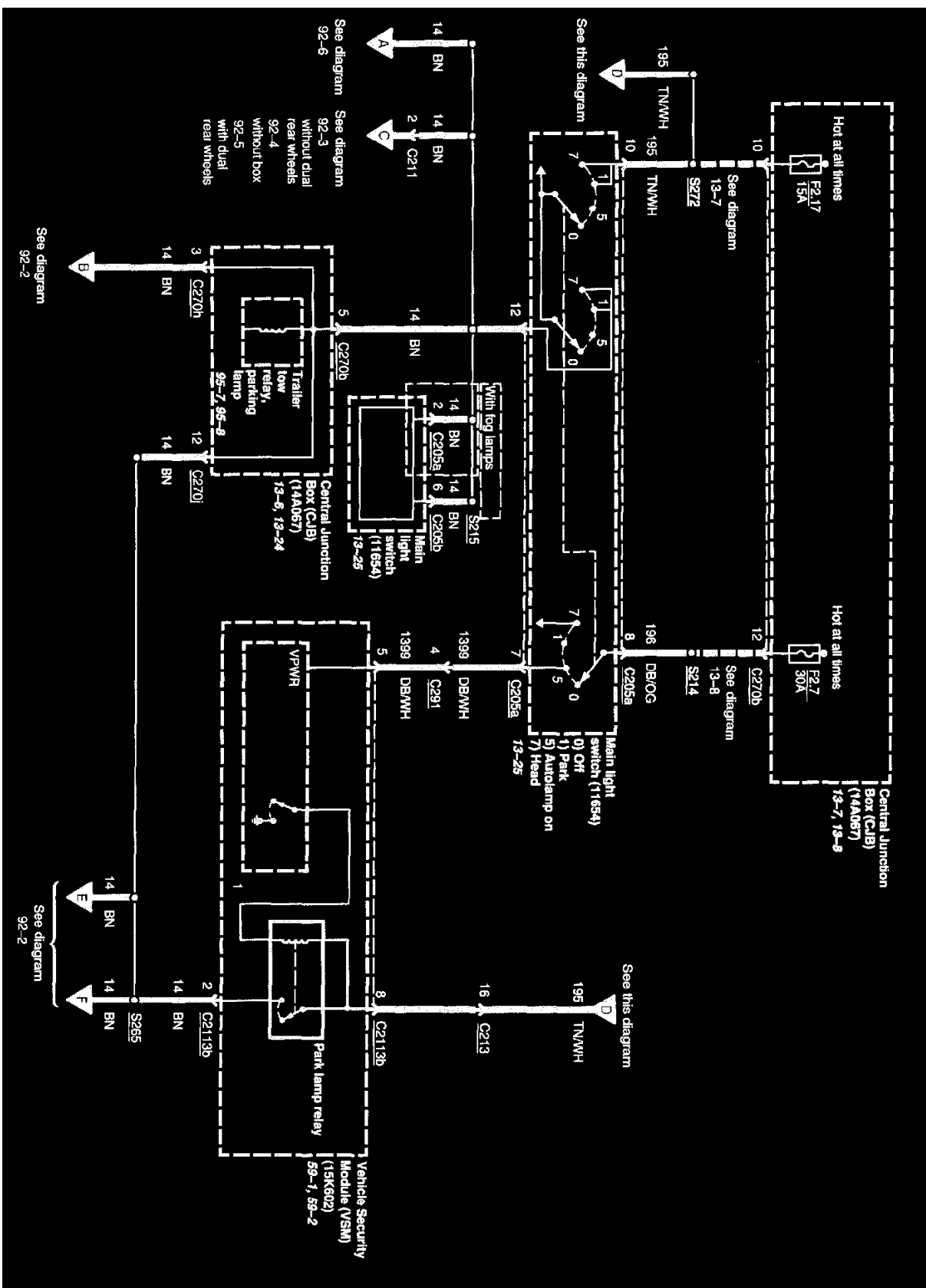
92-6

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

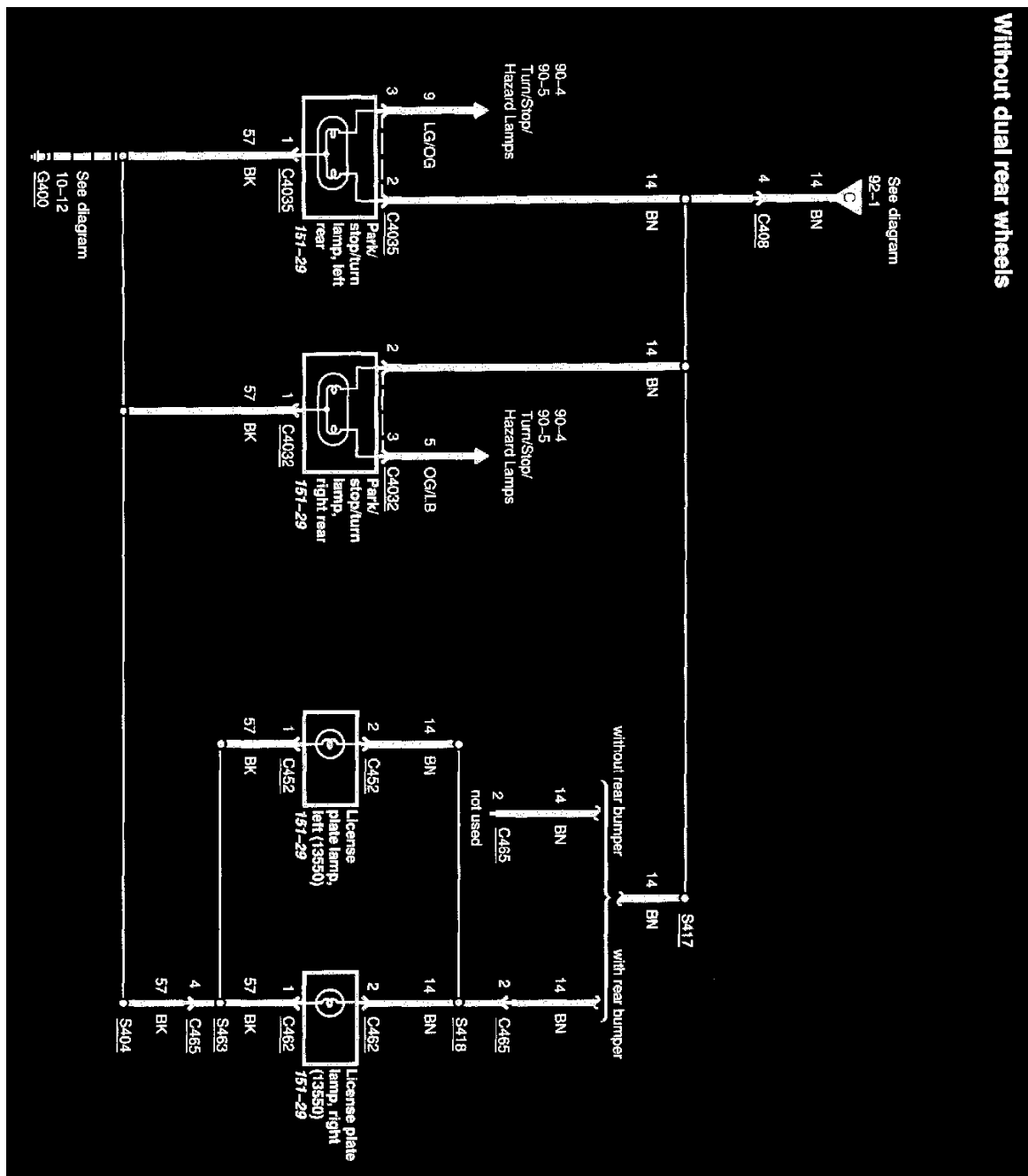
## Marker Lamp

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

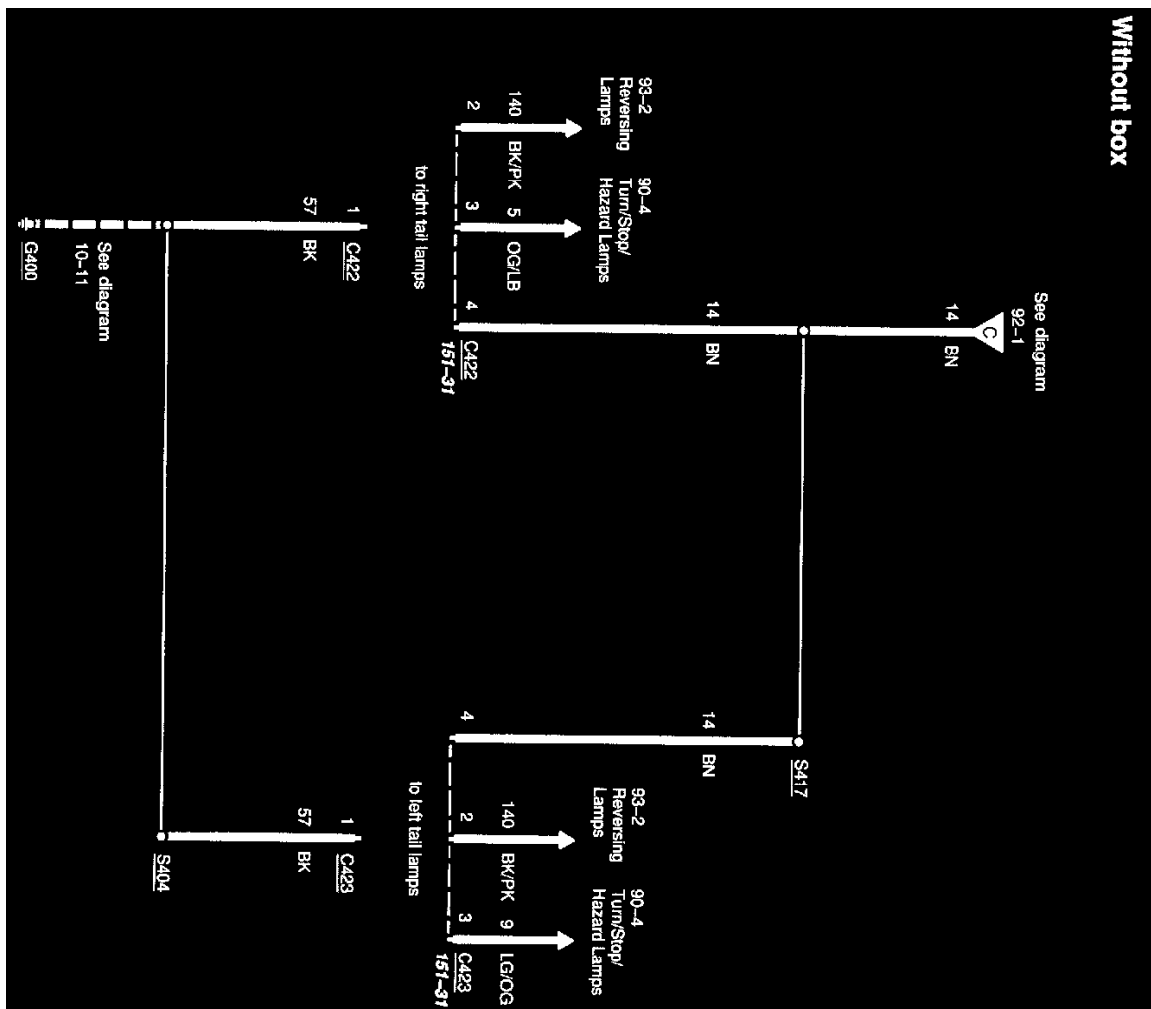




## Without dual rear wheels

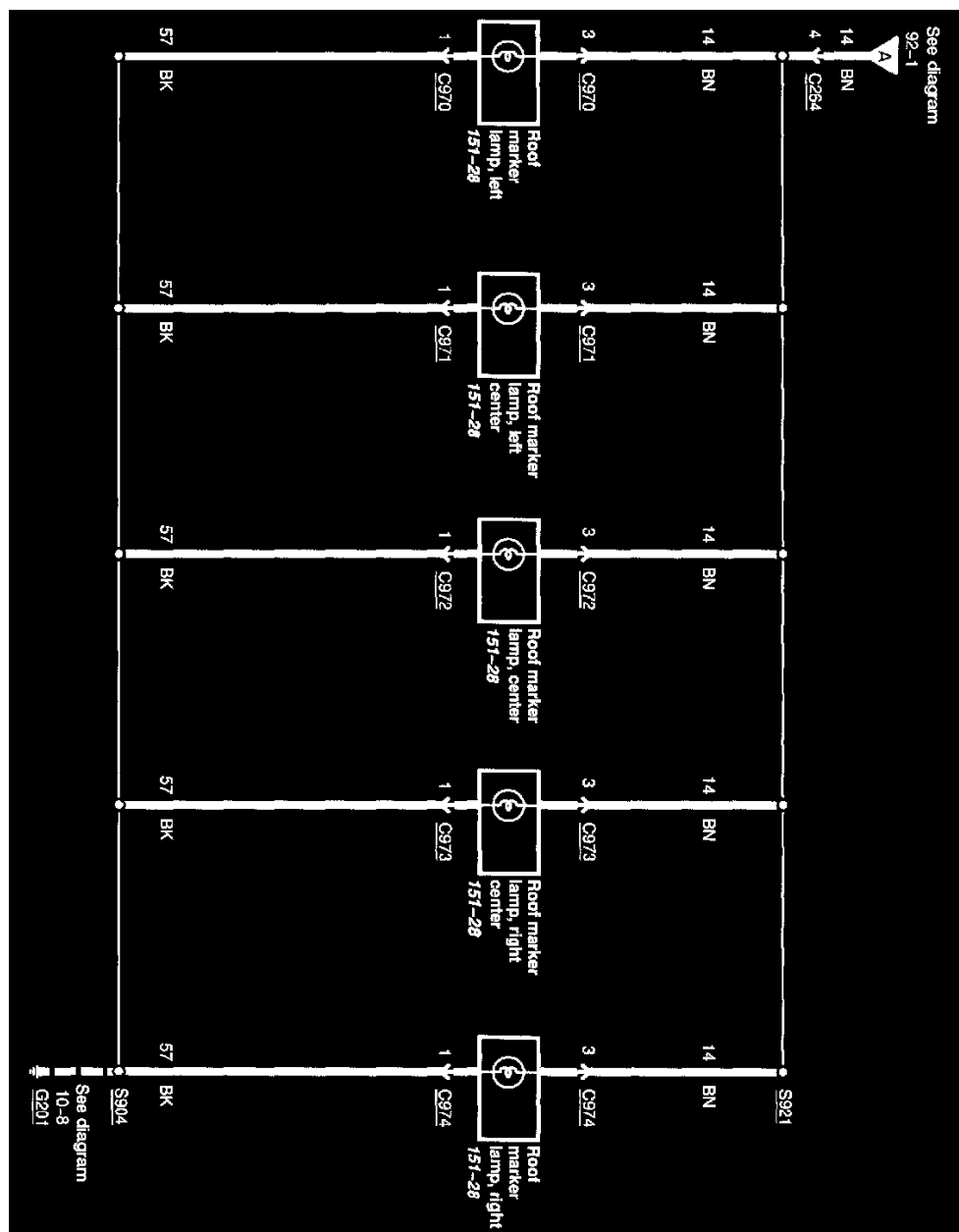






92-4

[illegible]



92-6

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Parking Lamp

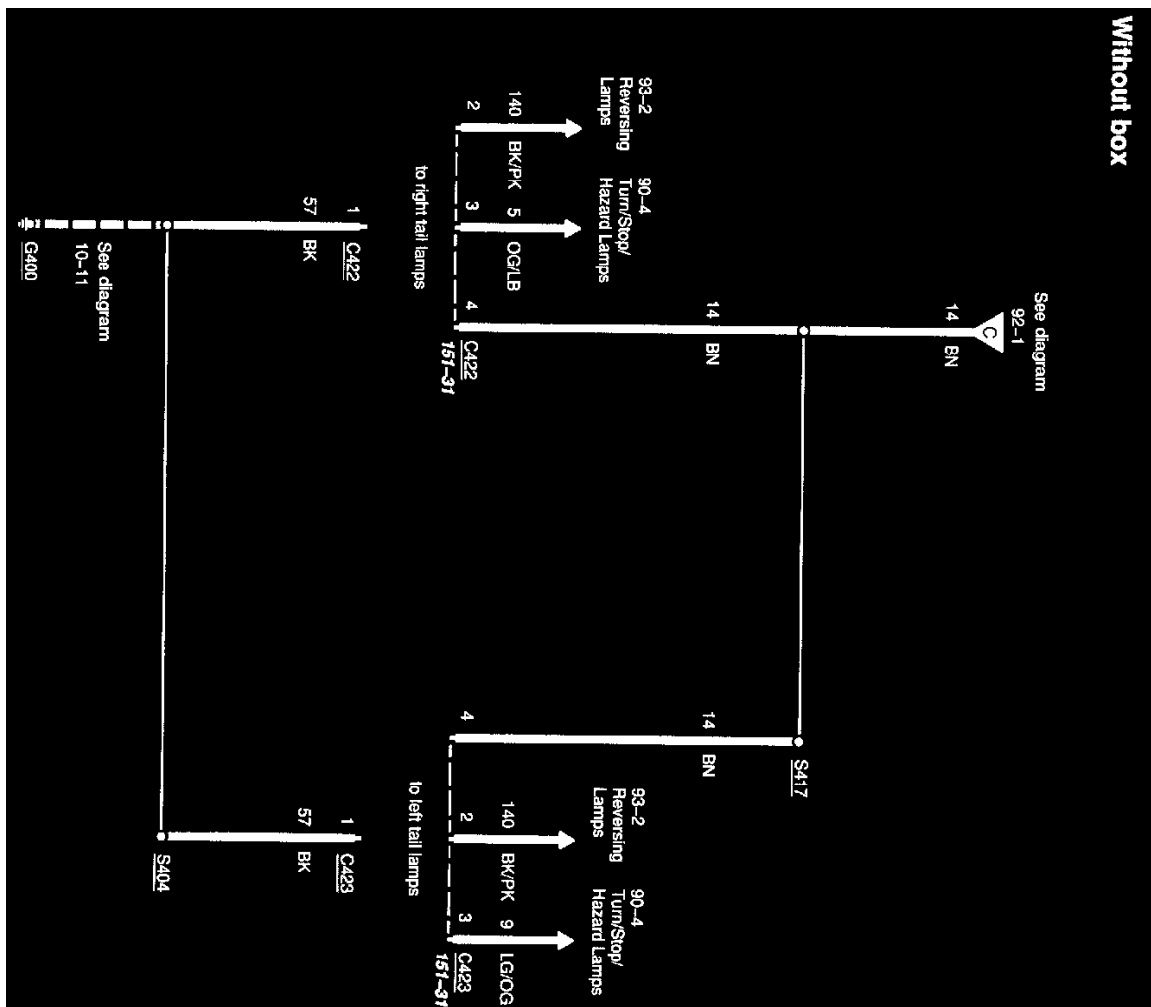
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





Without dual rear wheels

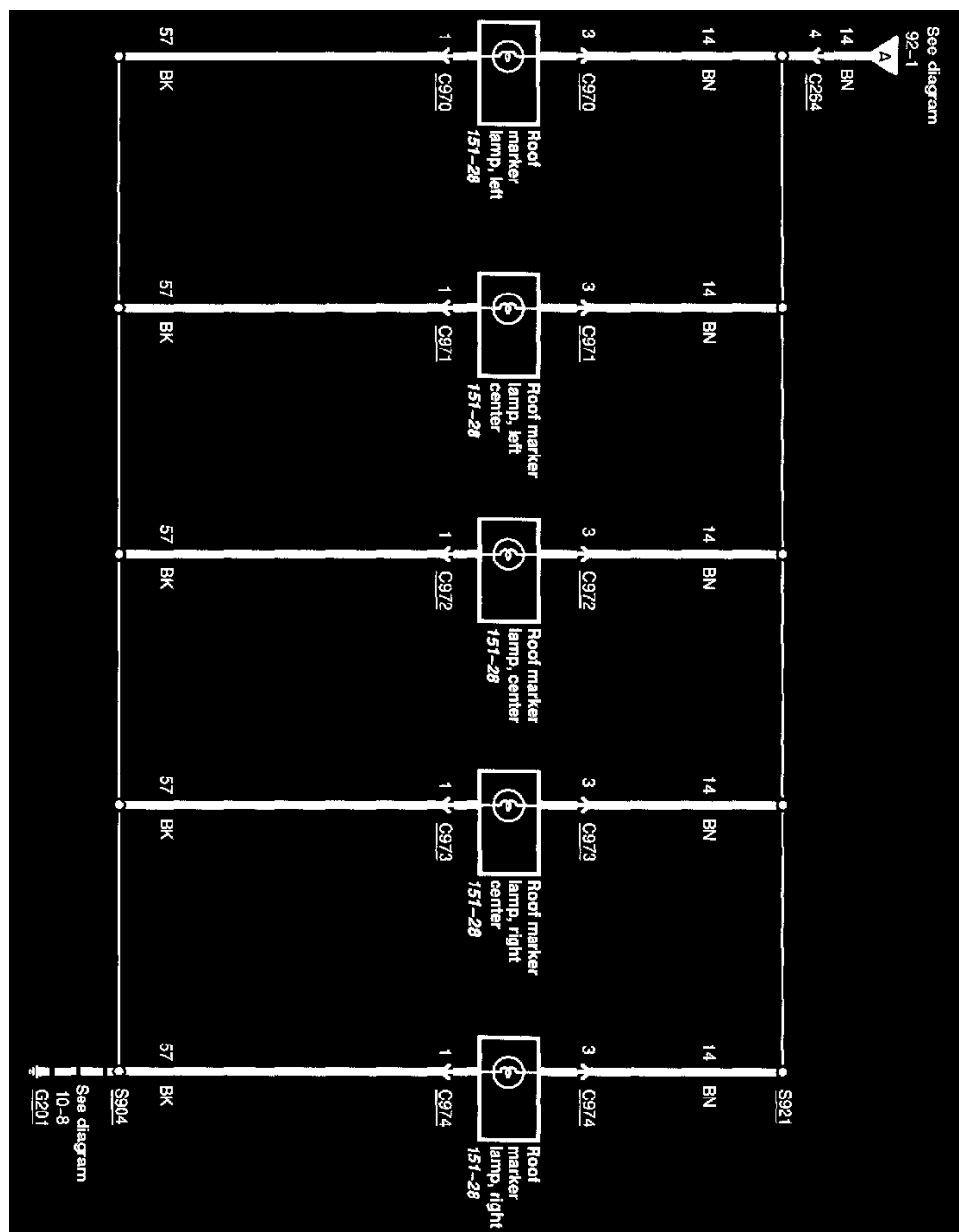
Without box



92-4

[illegible]





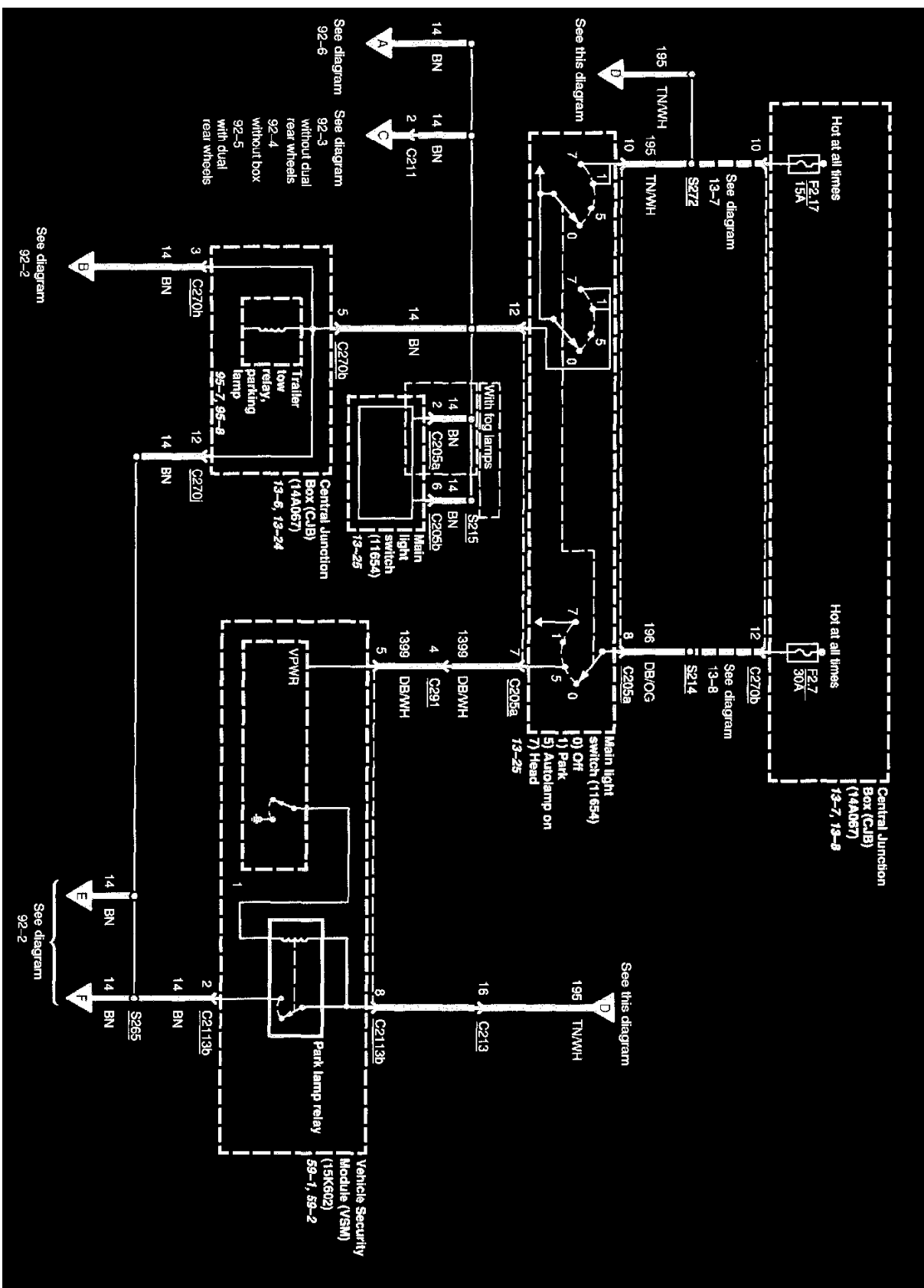
92-6

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

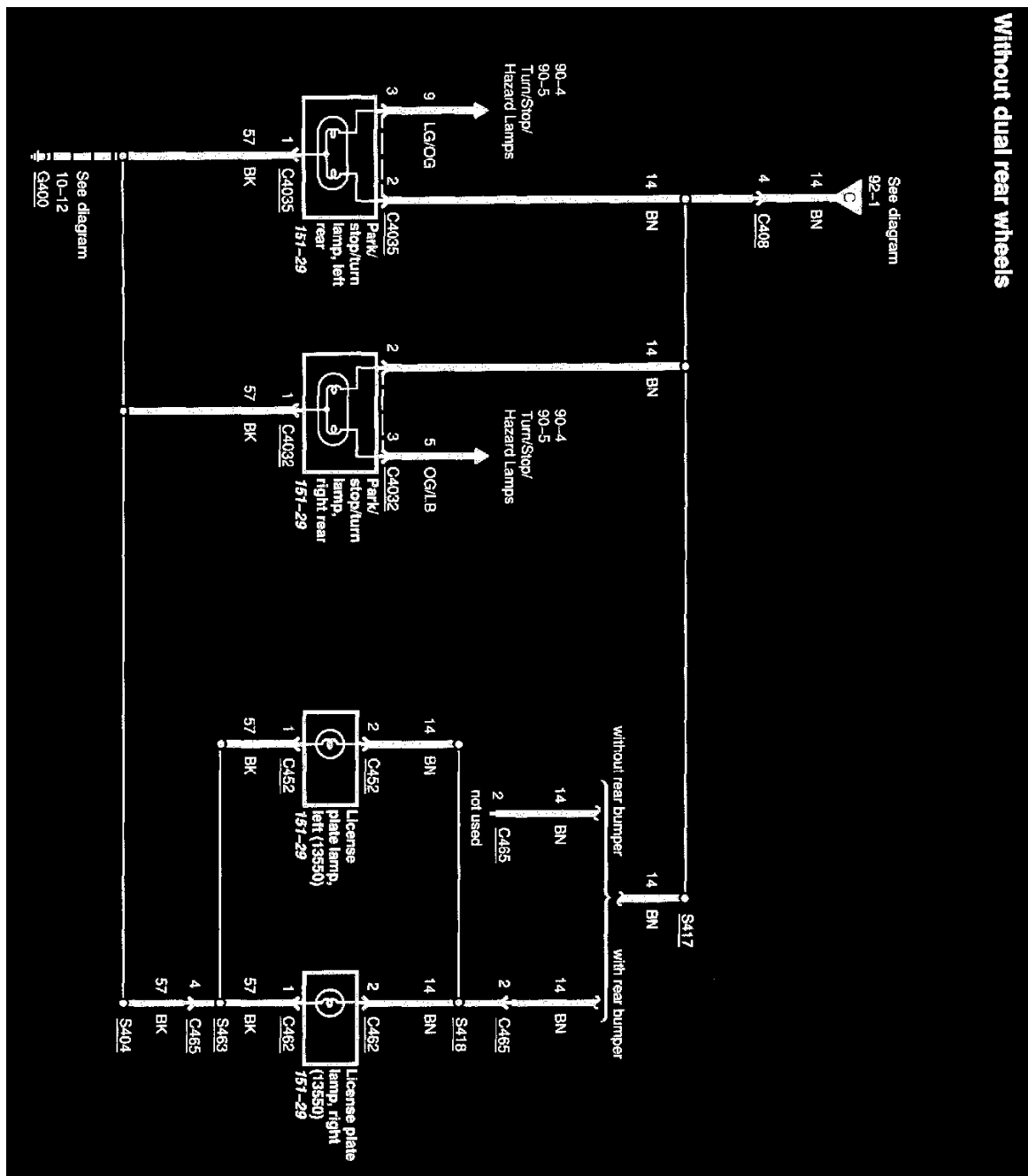
## Tail Lamp

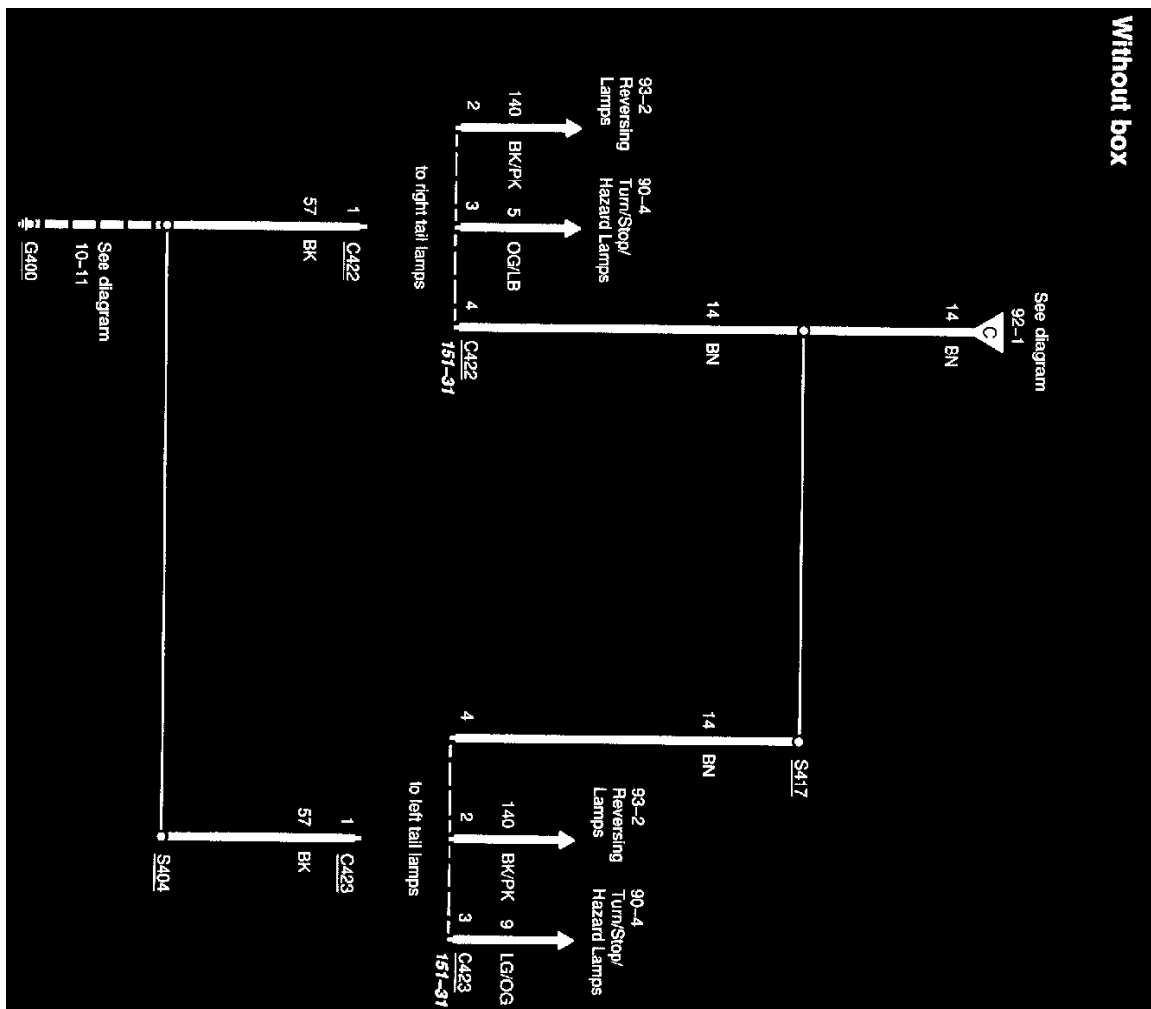
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





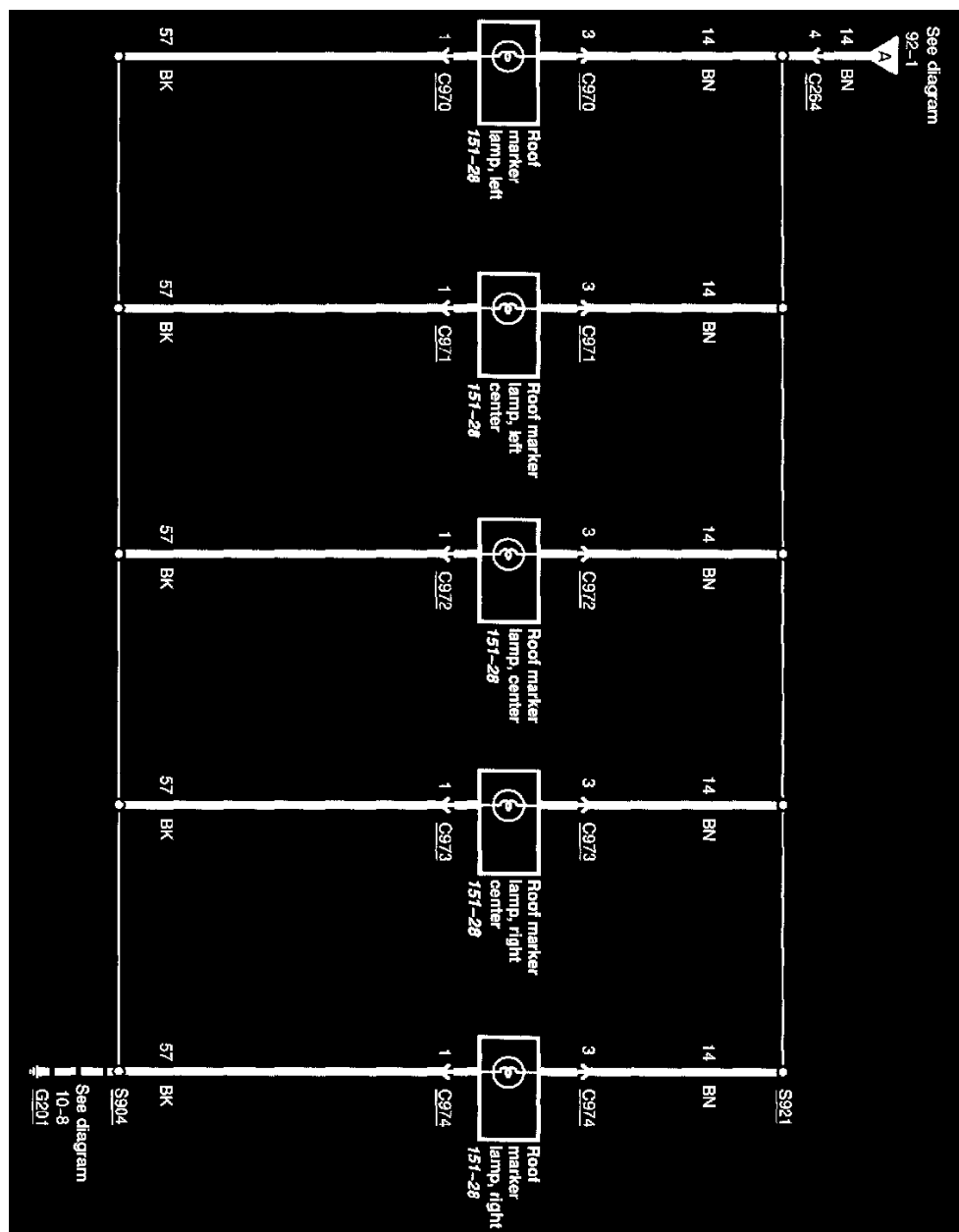
## Without dual rear wheels





92-4

[illegible]



92-6

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Trailer Lamps

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

**Gasoline**

Hot at all times  
Battery Junction Box (BUB) (14A067) 13-24

See diagram 95-6  
E

1362 DG/OG  
9 LG/OG  
1362 DG/OG  
1362 DG/OG  
S103  
5 OG/LB

See diagram 95-6  
A

Trailer tow relay, left turn  
C1188 11-4  
1 2 3 5

Trailer tow relay, right turn  
C1187 11-4  
1 2 3 5

57 BK  
S162  
See diagram 10-2  
G100

52 YE  
1  
64 DG  
9  
C133  
57 BK  
S162  
See diagram 10-2  
G100

others  
chassis cab  
not used

64 DG  
52 YE  
S430  
S433  
C4099  
C4098

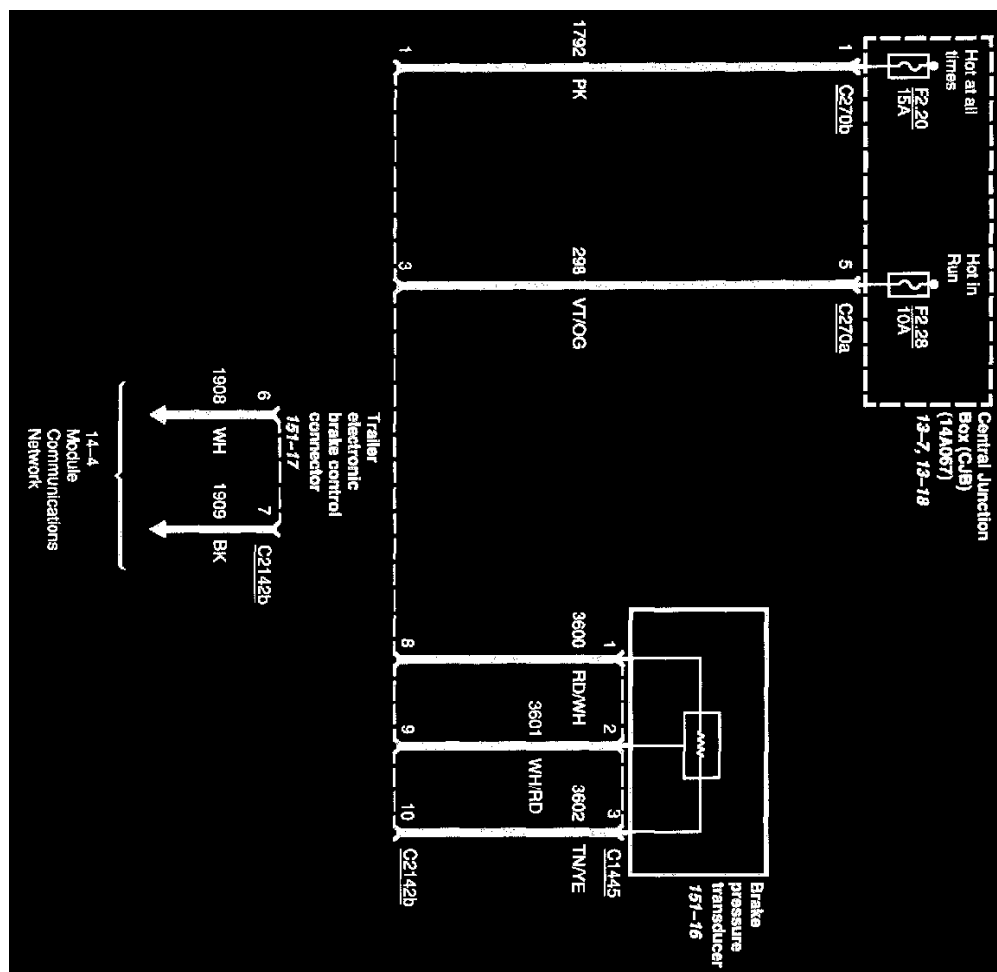
Trailer tow connector, 7-pin  
151-29

Trailer tow connector, 4-pin  
151-29



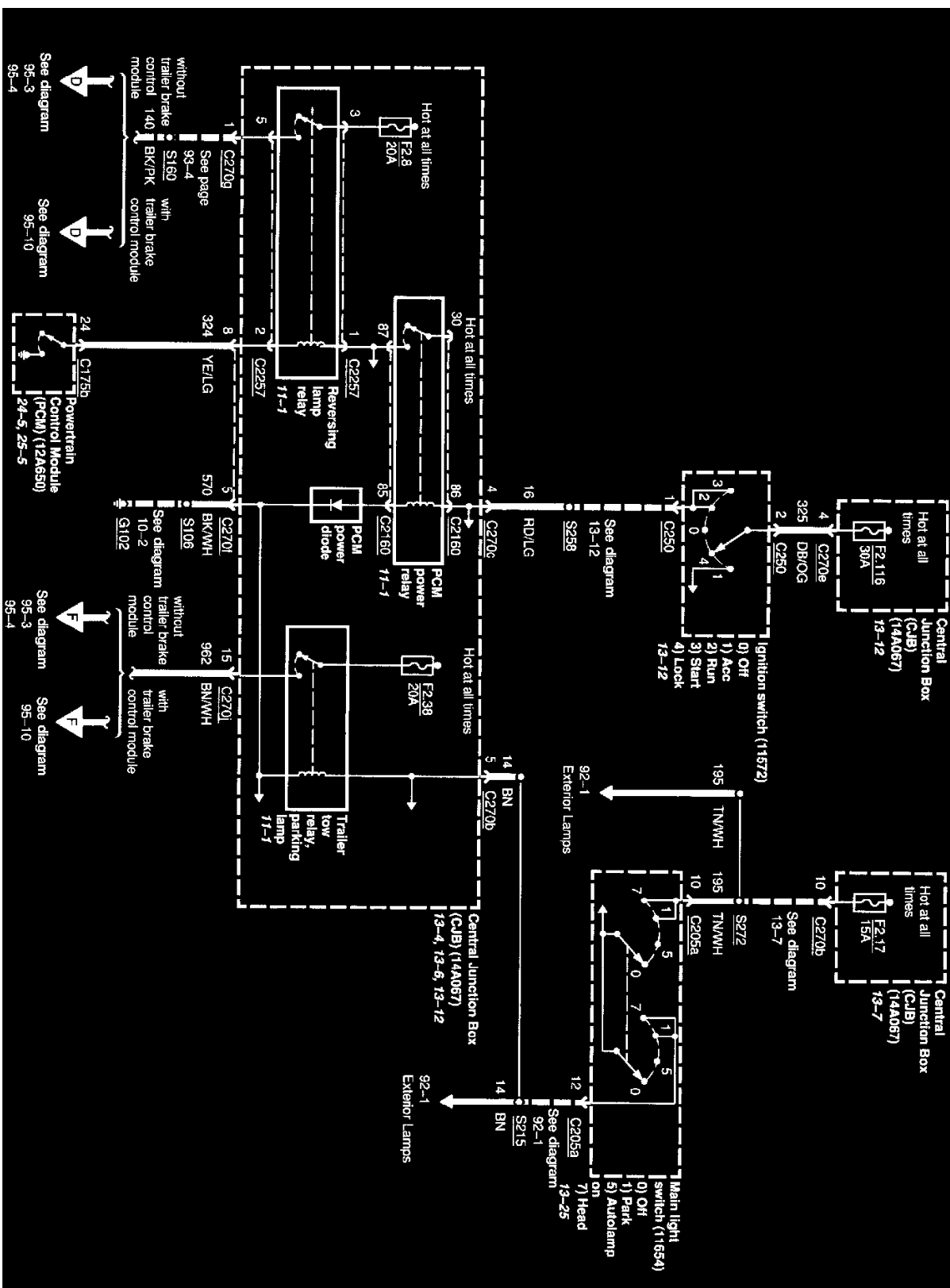


**95-4**



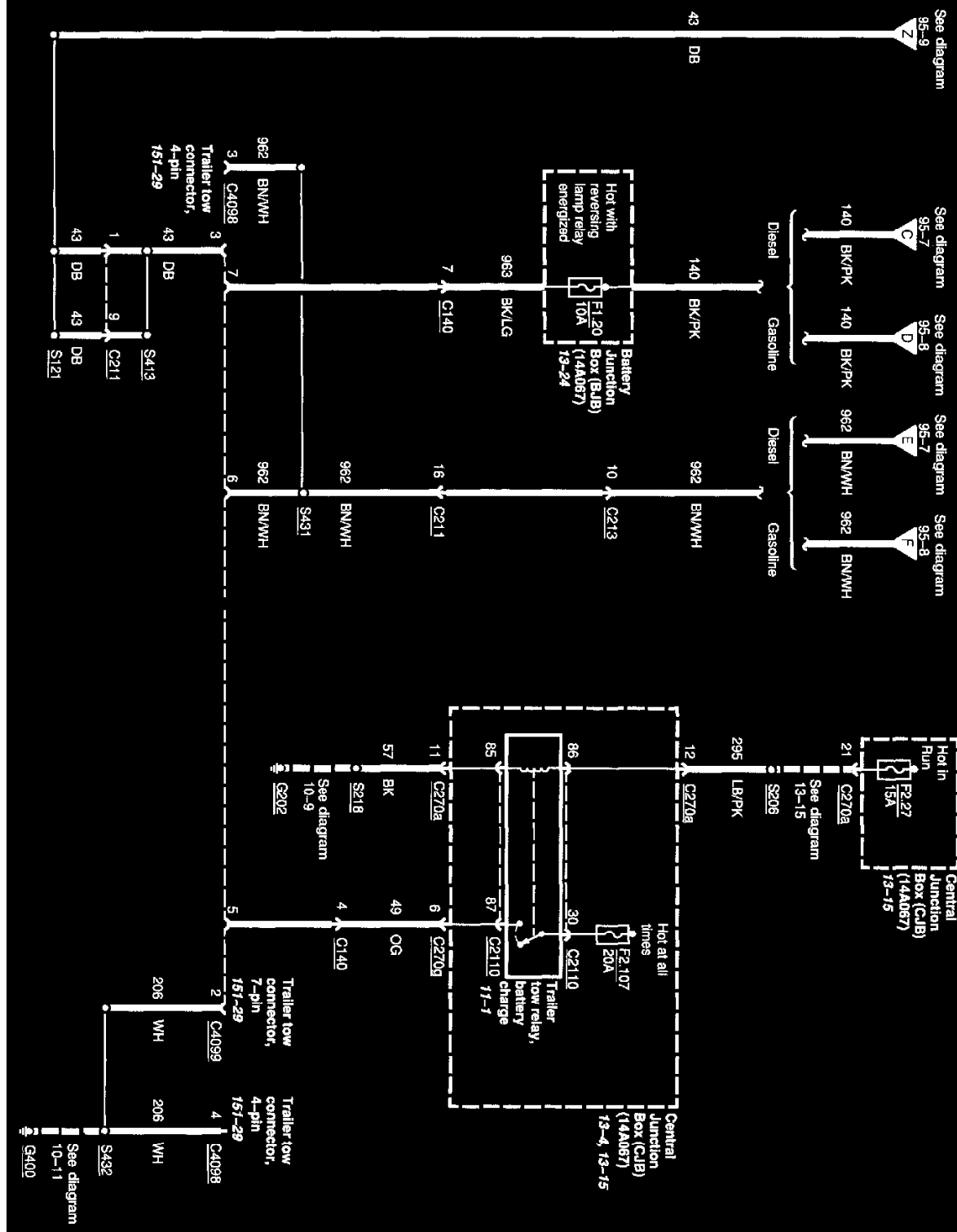


## Gasoline





## with trailer brake control module



95-10

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Turn Signals

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do

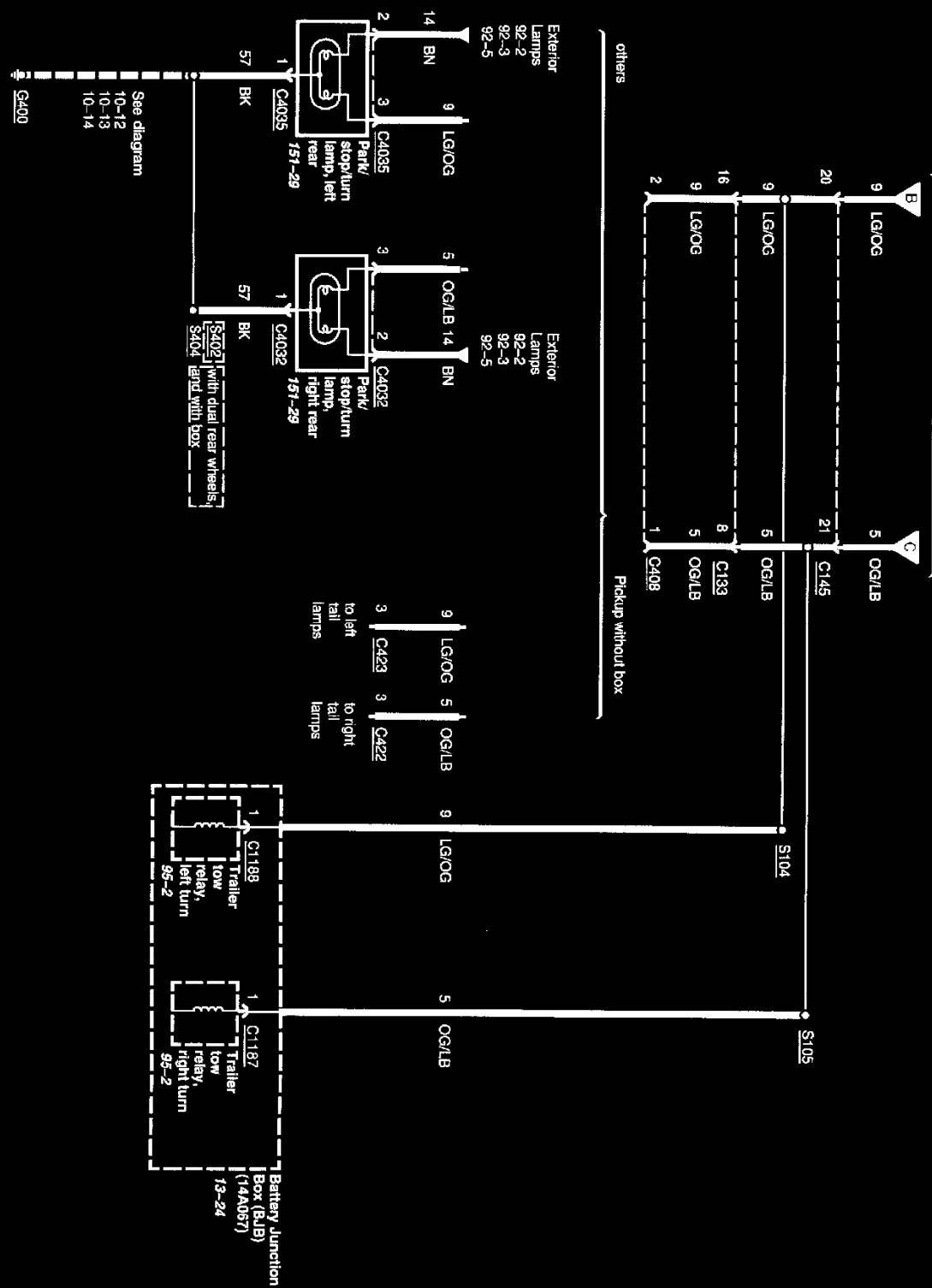


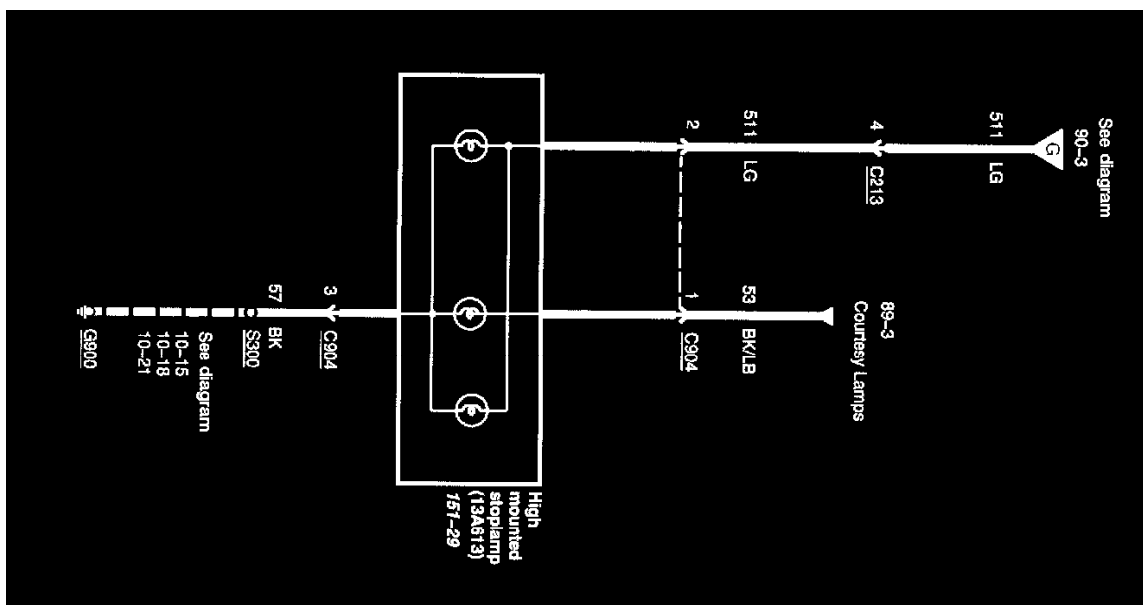






## Gasoline

See diagram  
90-1



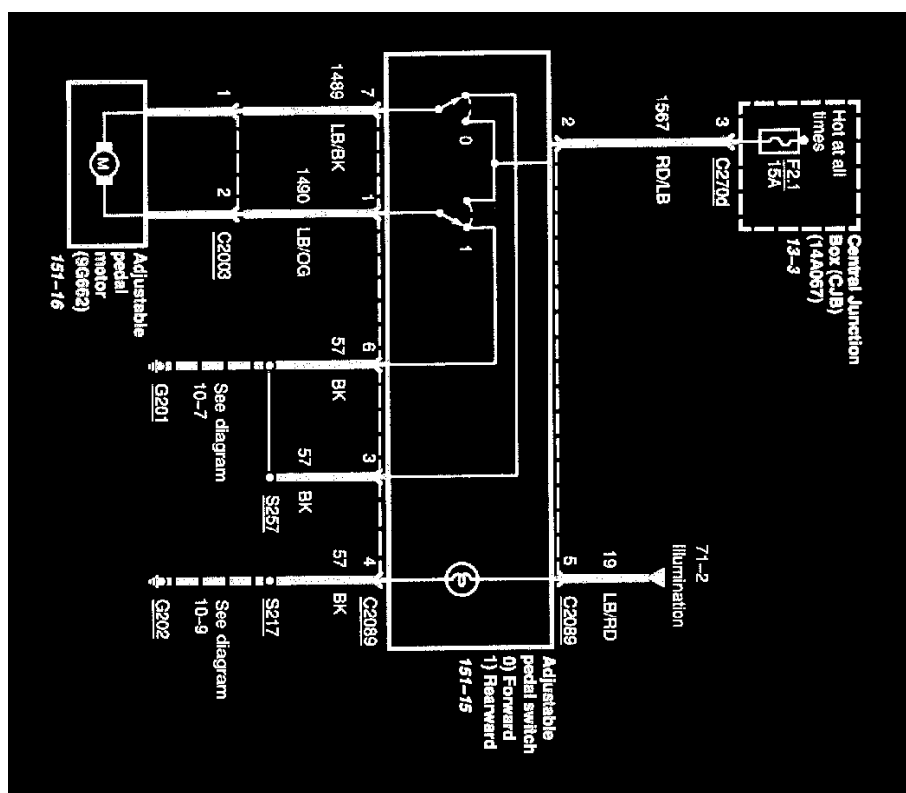
90-6

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Memory Positioning Systems

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

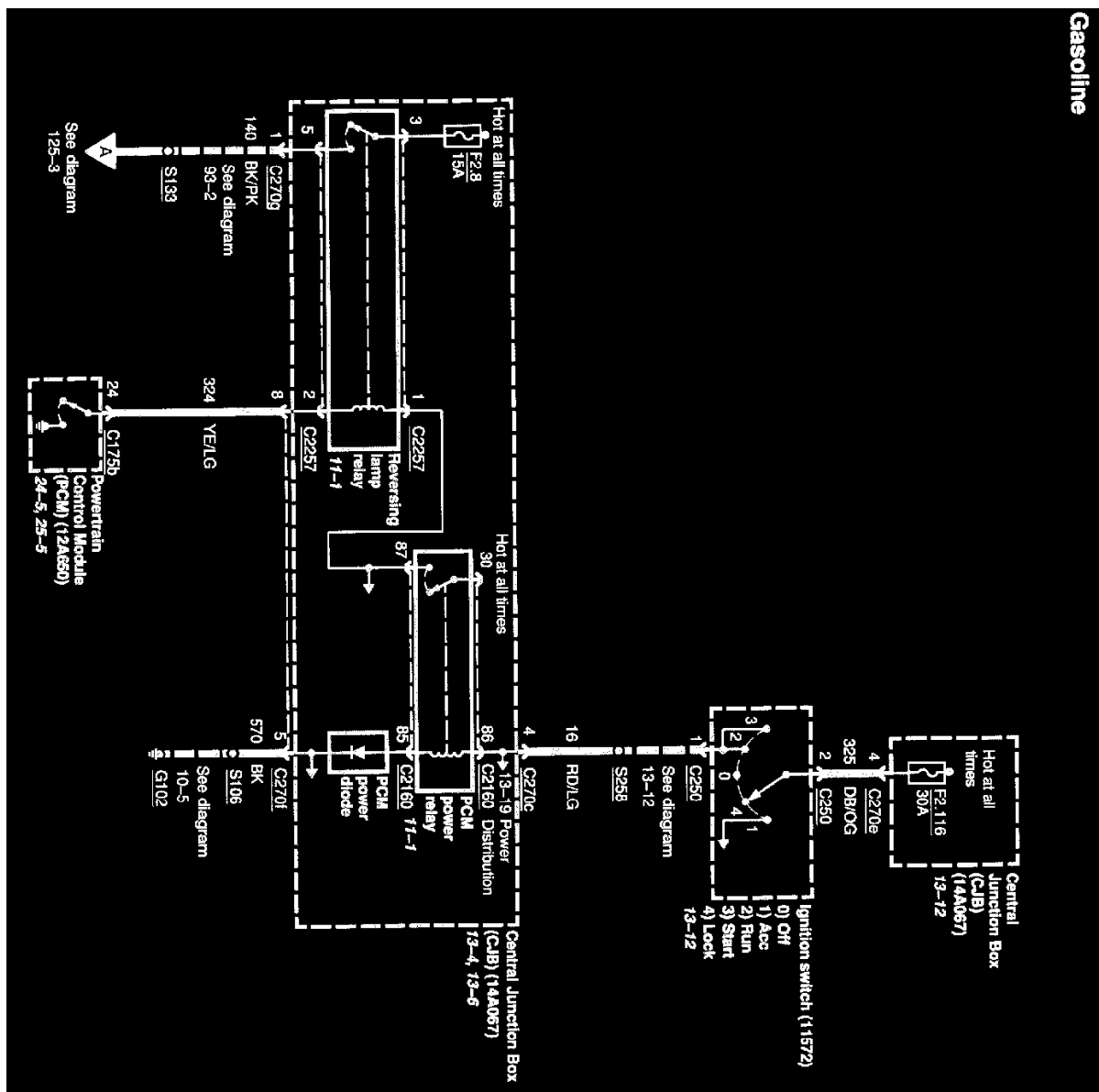


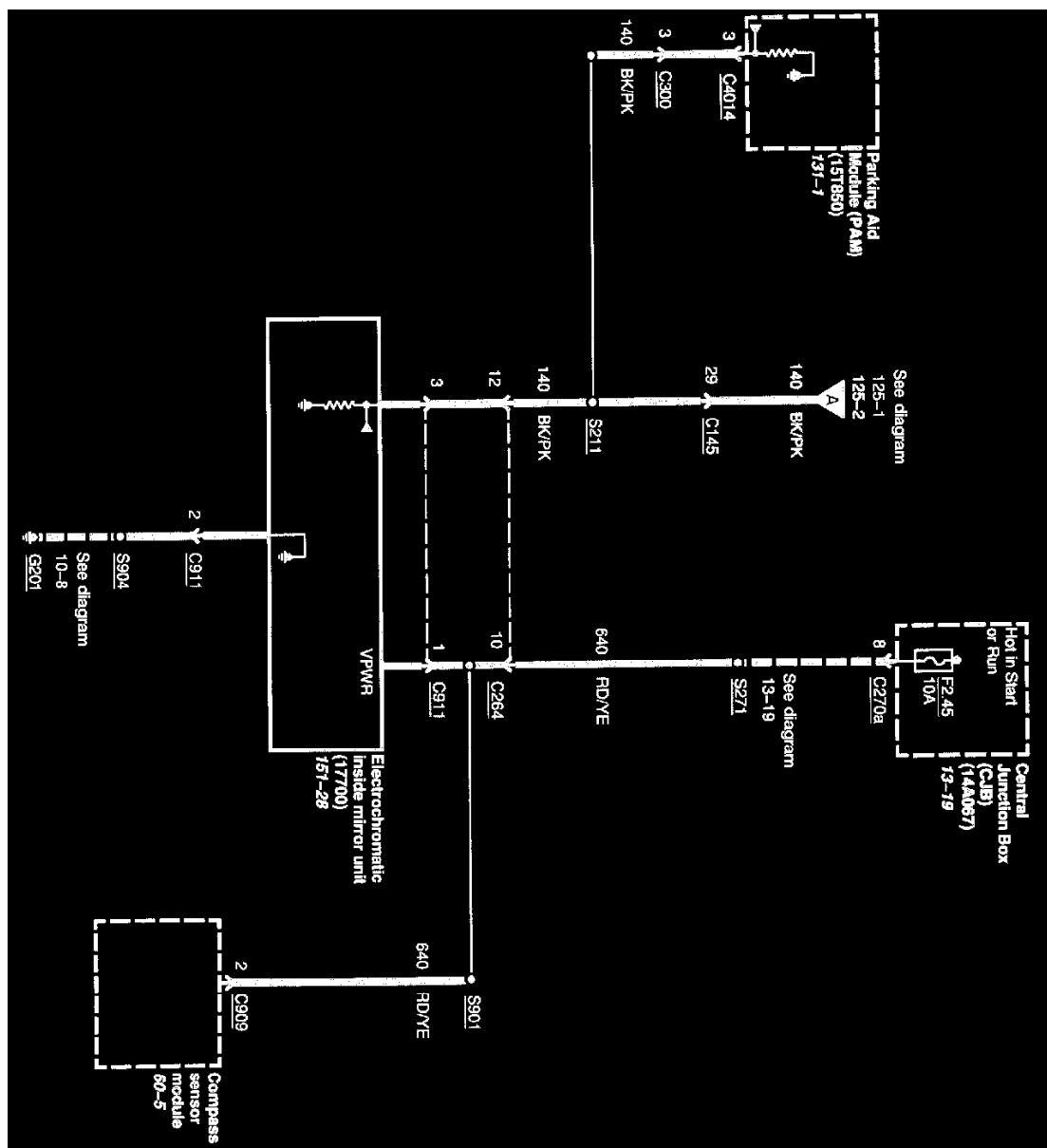
127-1

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





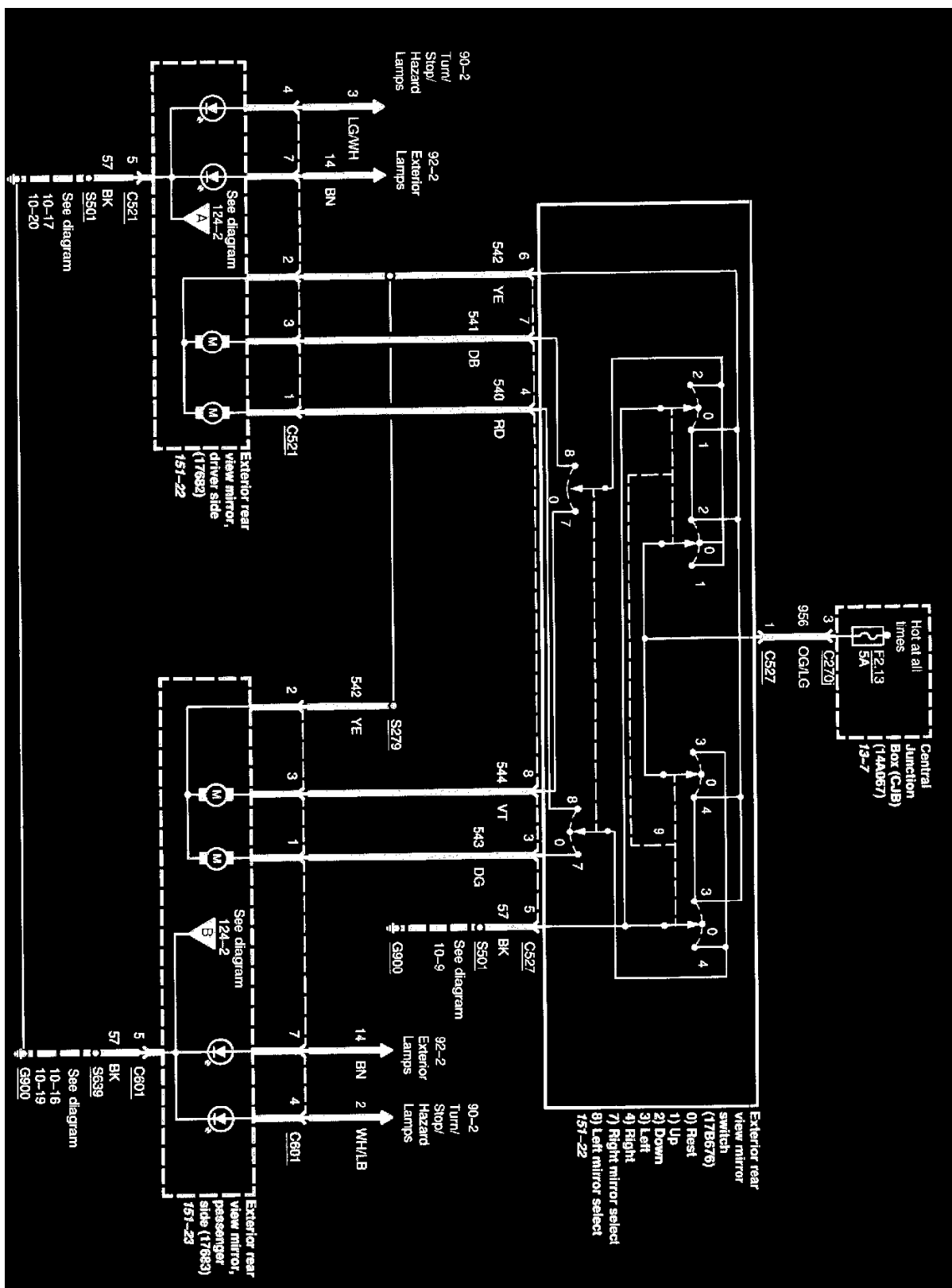
125-3

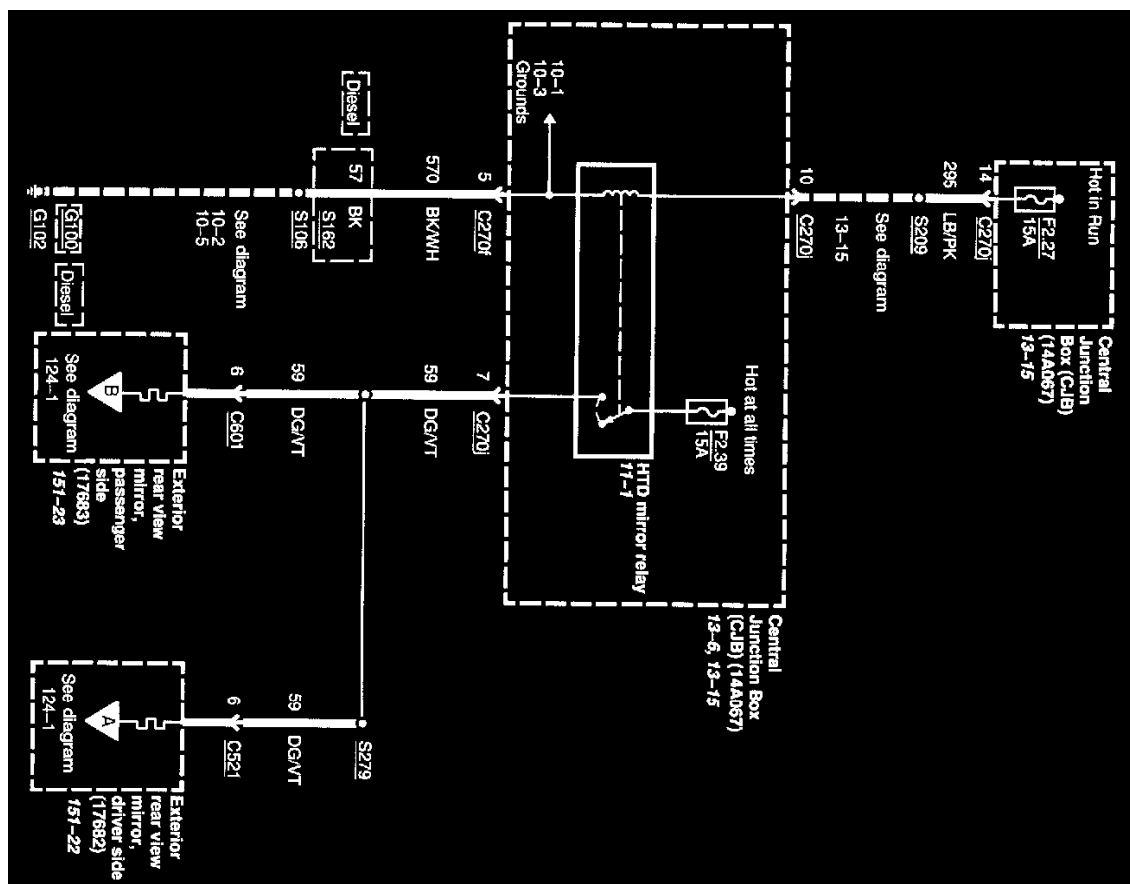
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Power Mirrors

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





124-2

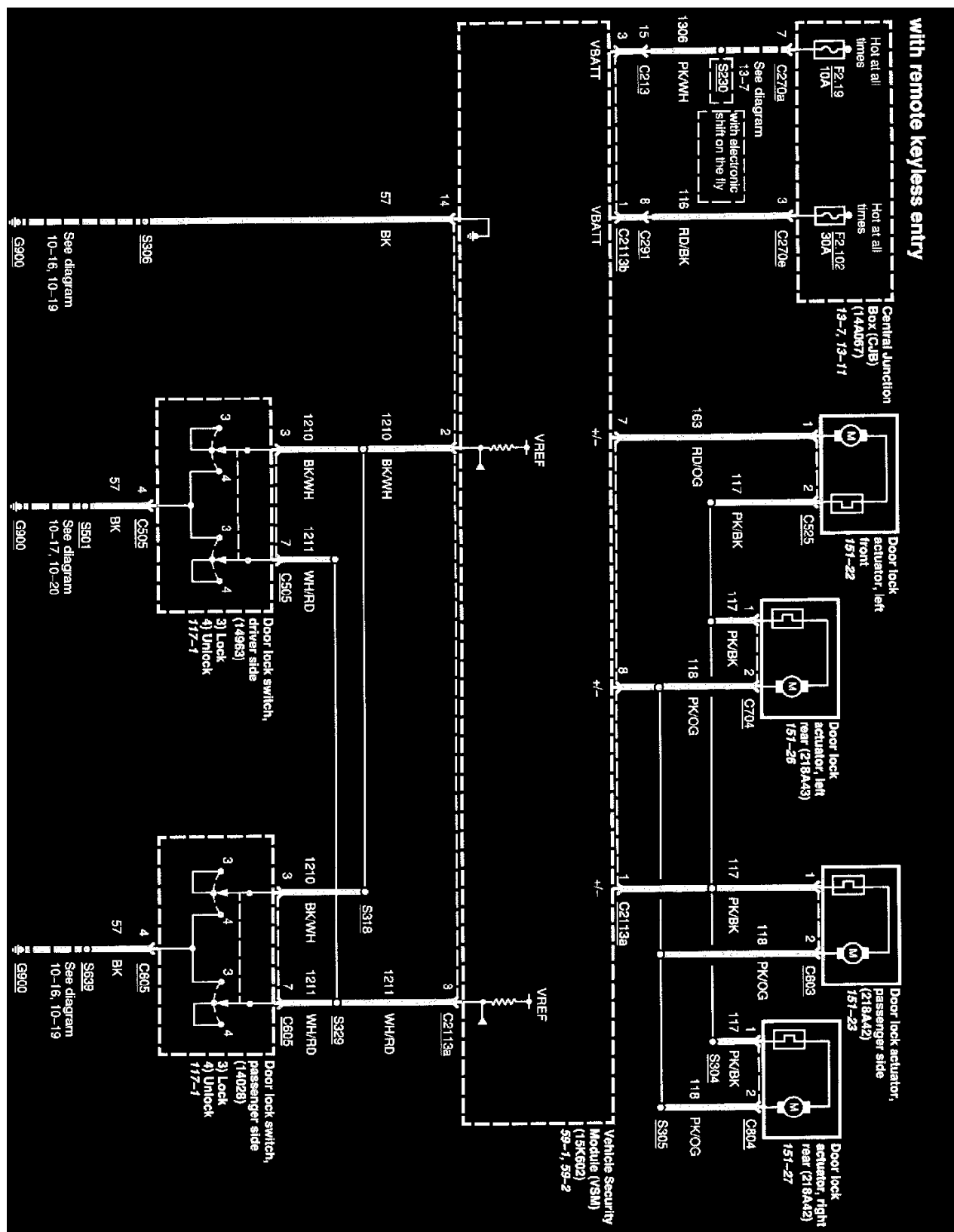
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Power Door Locks

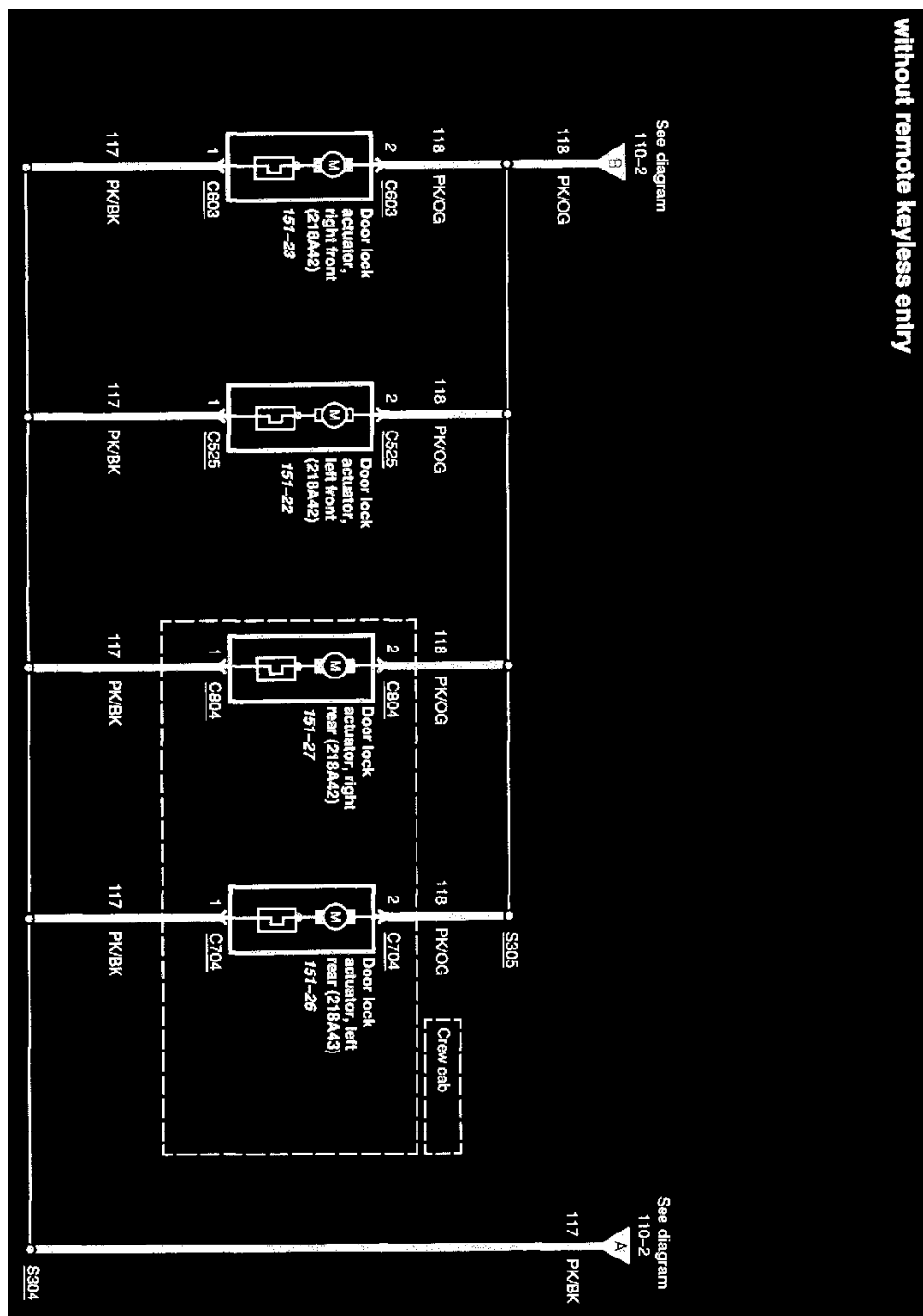
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





**110-2**

without remote keyless entry



110-3

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

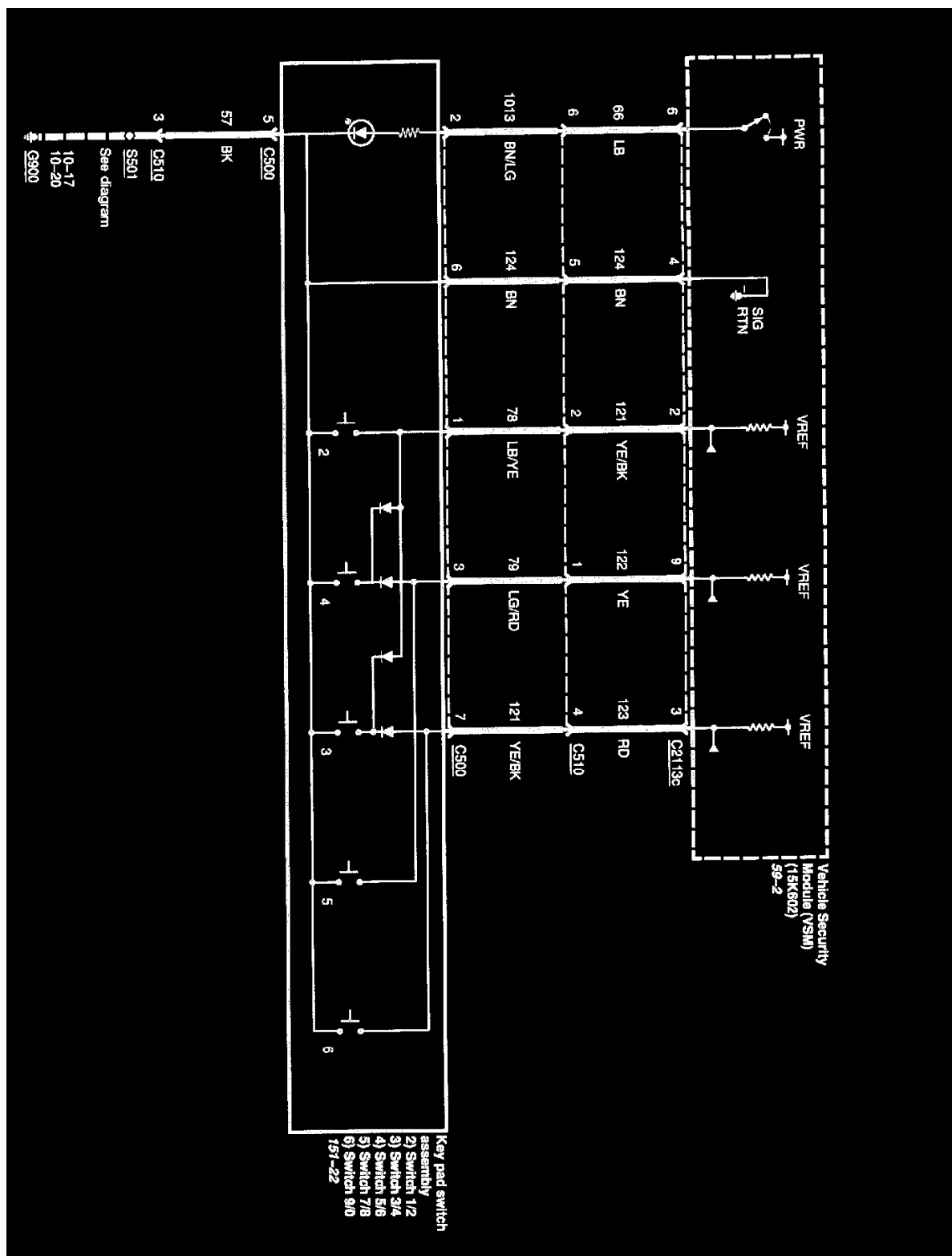
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

### Remote Control Alarm and Locks

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.







117-3

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

|                                          |            |
|------------------------------------------|------------|
| Accelerator pedal position sensor        | 24-8       |
| Charge Motion Control Valve (CMCV)       | 24-3       |
| Cylinder head temperature sensor         | 24-5       |
| Electronic Throttle Control (ETC) motor  | 24-5       |
| Engine Oil Temperature (EOT) sensor      | 24-5       |
| EVAP canister vent control solenoid      | 24-3       |
| Fuel injectors                           | 24-2       |
| Fuel pump driver module                  | 24-6, 24-7 |
| Fuel pump relay                          | 24-6, 24-7 |
| Fuel tank pressure transducer sensor     | 24-6, 24-7 |
| Fuel tank unit                           | 24-6, 24-7 |
| Heated Oxygen Sensors (HO2S)             | 24-4, 24-7 |
| Heated Positive Crankcase (PCV) element  | 24-3       |
| Inertia Fuel Shutoff (IFS) switch        | 24-6, 24-7 |
| Injector Pressure Sensor (IPS)           | 24-5       |
| Knock sensors                            | 24-8       |
| Mass Air Flow (MAF) sensor               | 24-1       |
| PCM power diode                          | 24-1       |
| PCM power relay                          | 24-1       |
| Throttle Position Sensor (TPS)           | 24-5       |
| Vapor management valve                   | 24-3       |
| Variable Camshaft Timing (VCT) solenoids | 24-3       |

## 24-1

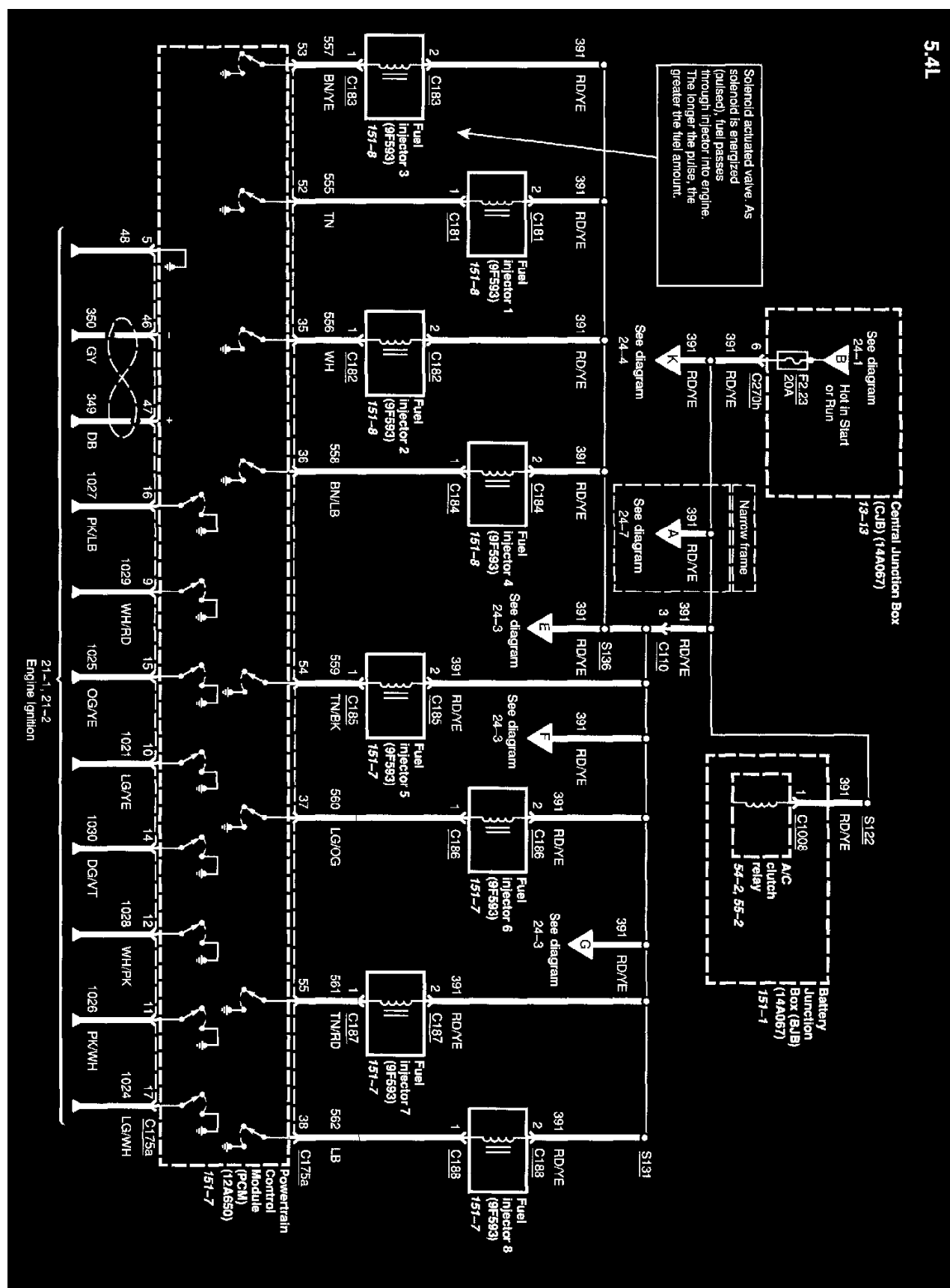
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

24-1

**24-2**



**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



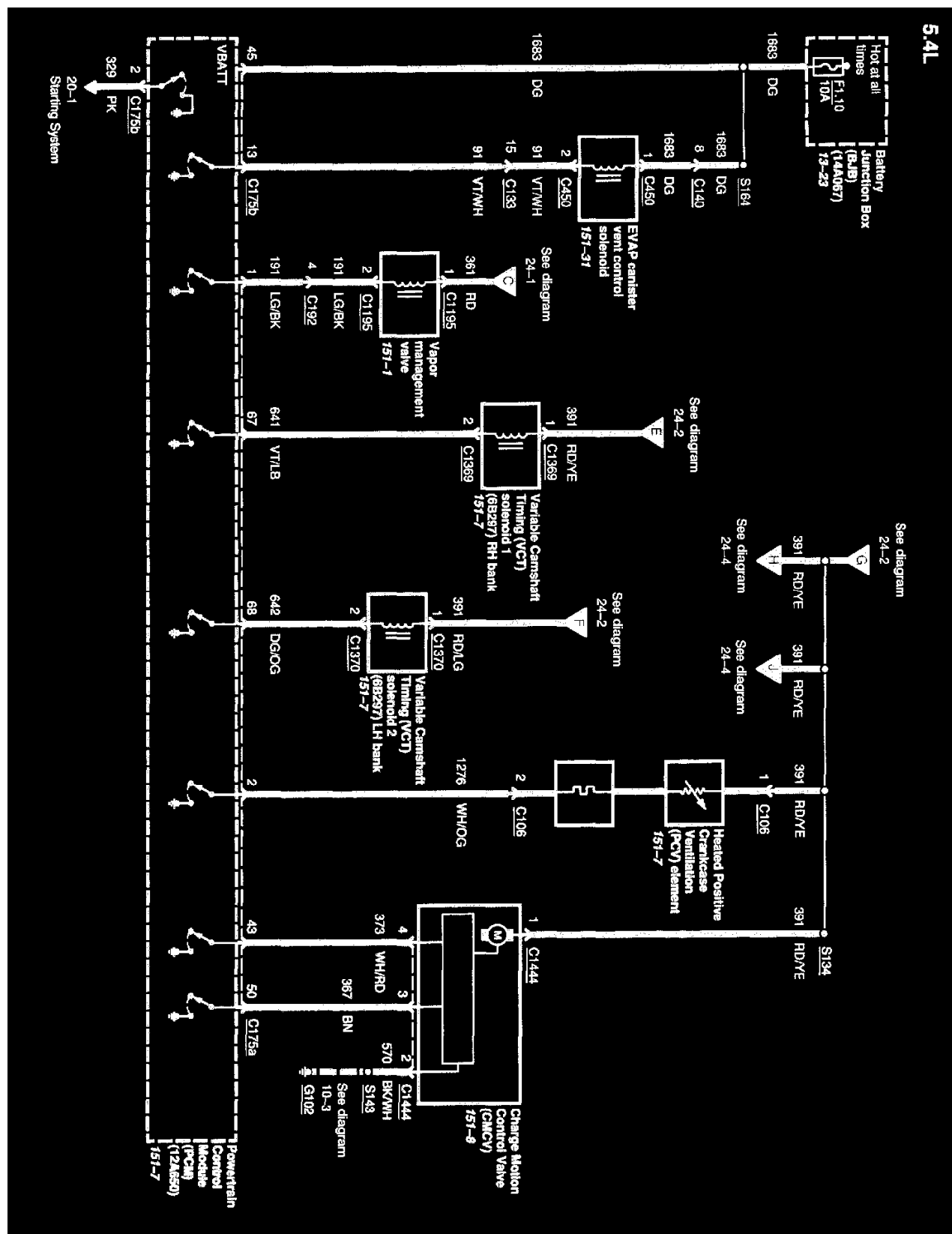
24-2

Next Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-3

Previous Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-1

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**24-3**

Next Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-4

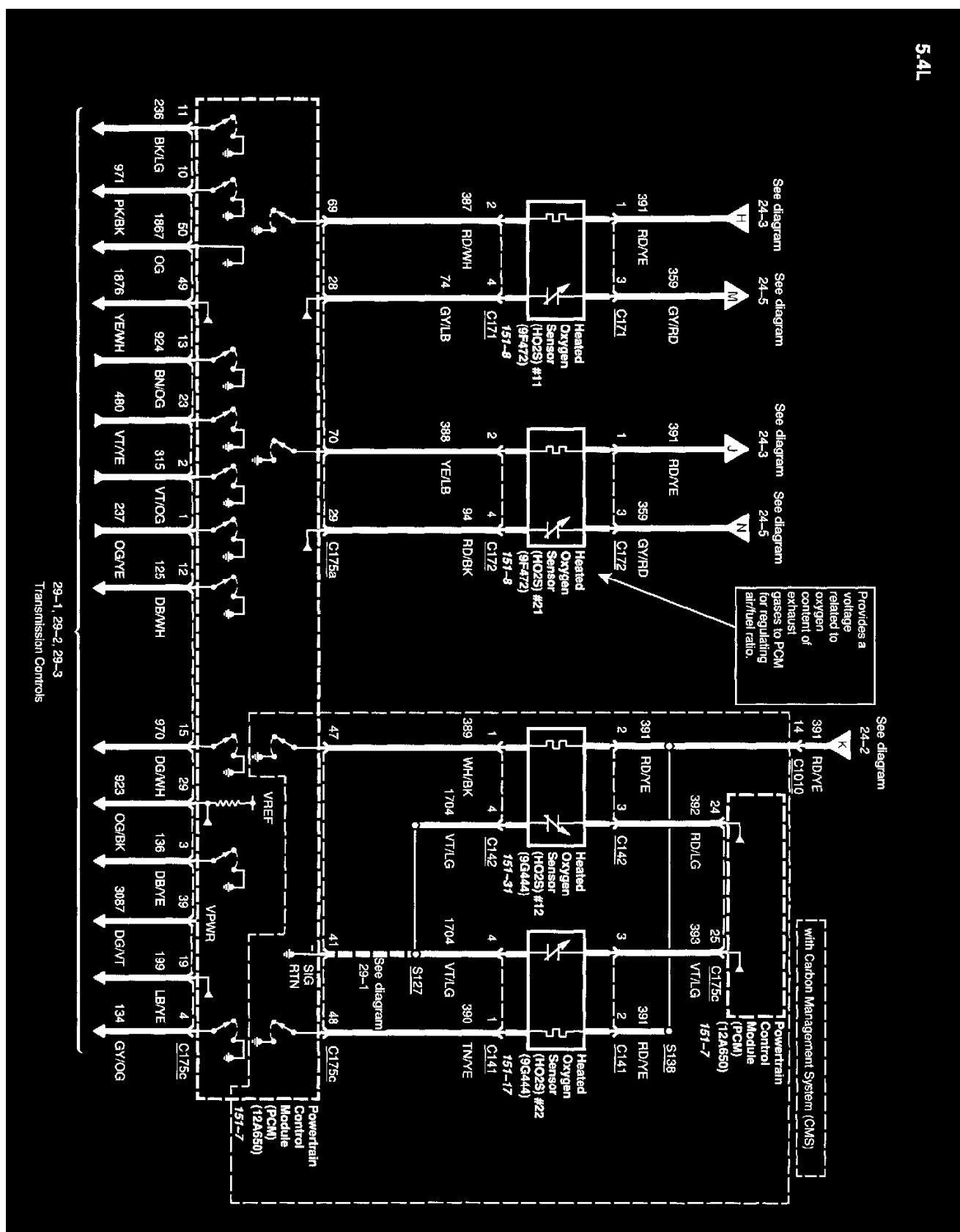
Previous Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-2

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

**24-4**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



24-4

Next Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-5

Previous Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-3

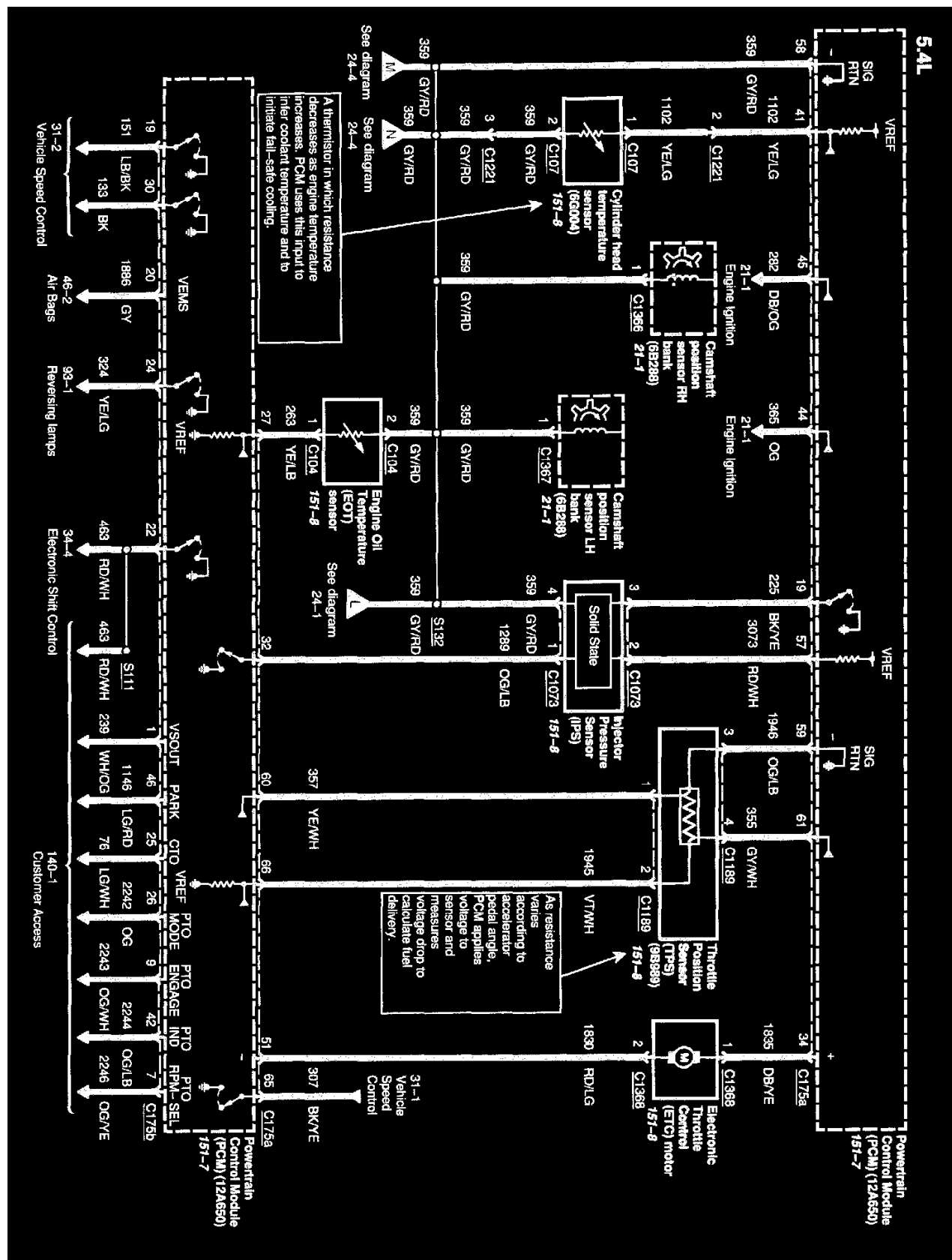
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

## 24-5

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



Next Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-6

Previous Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-4

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 24-6

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

[illegible]

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.  
See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





Next Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-8

Previous Diagram See: Electrical Diagrams/Powertrain Management/System Diagram/24-6

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## 24-8

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



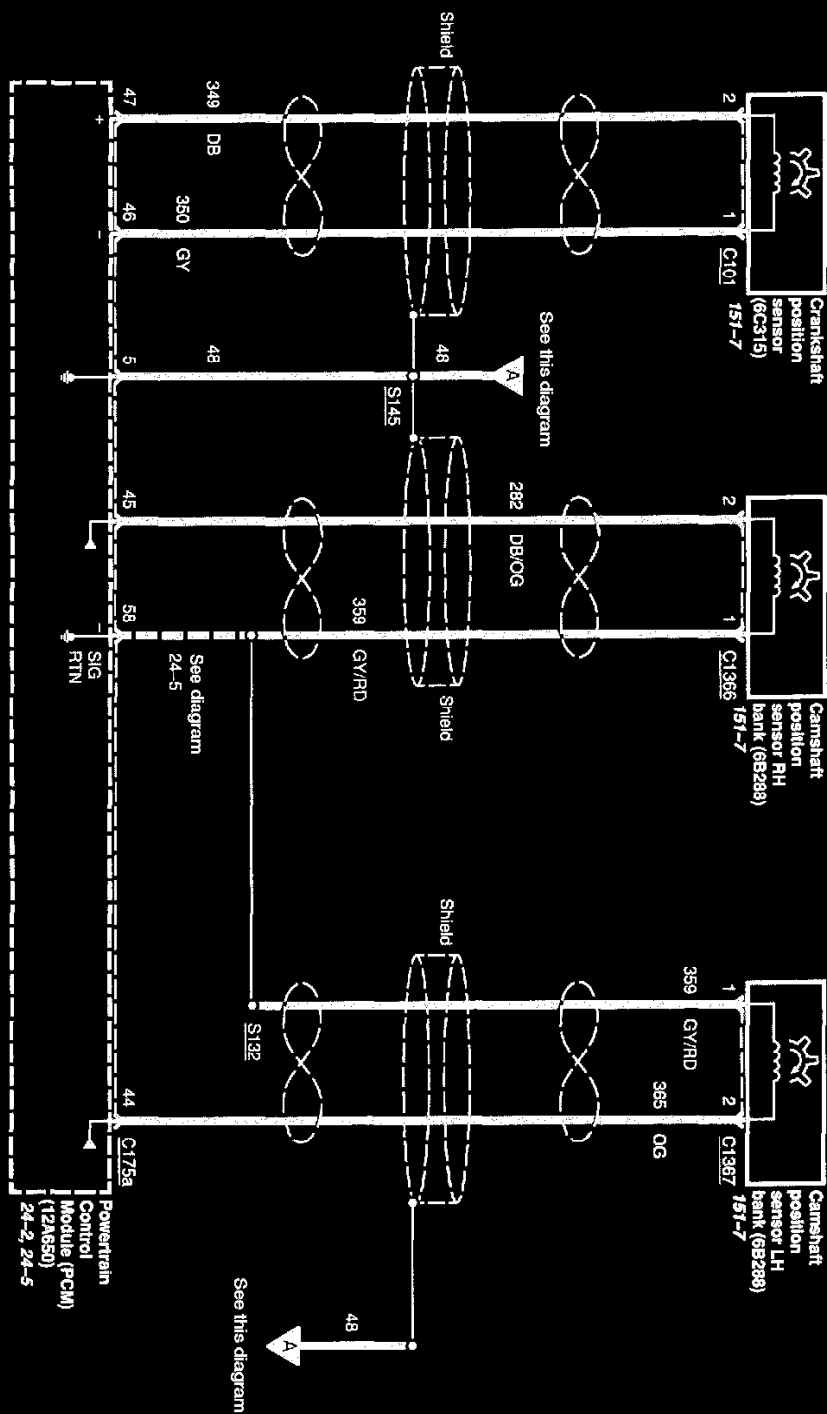
[illegible]

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

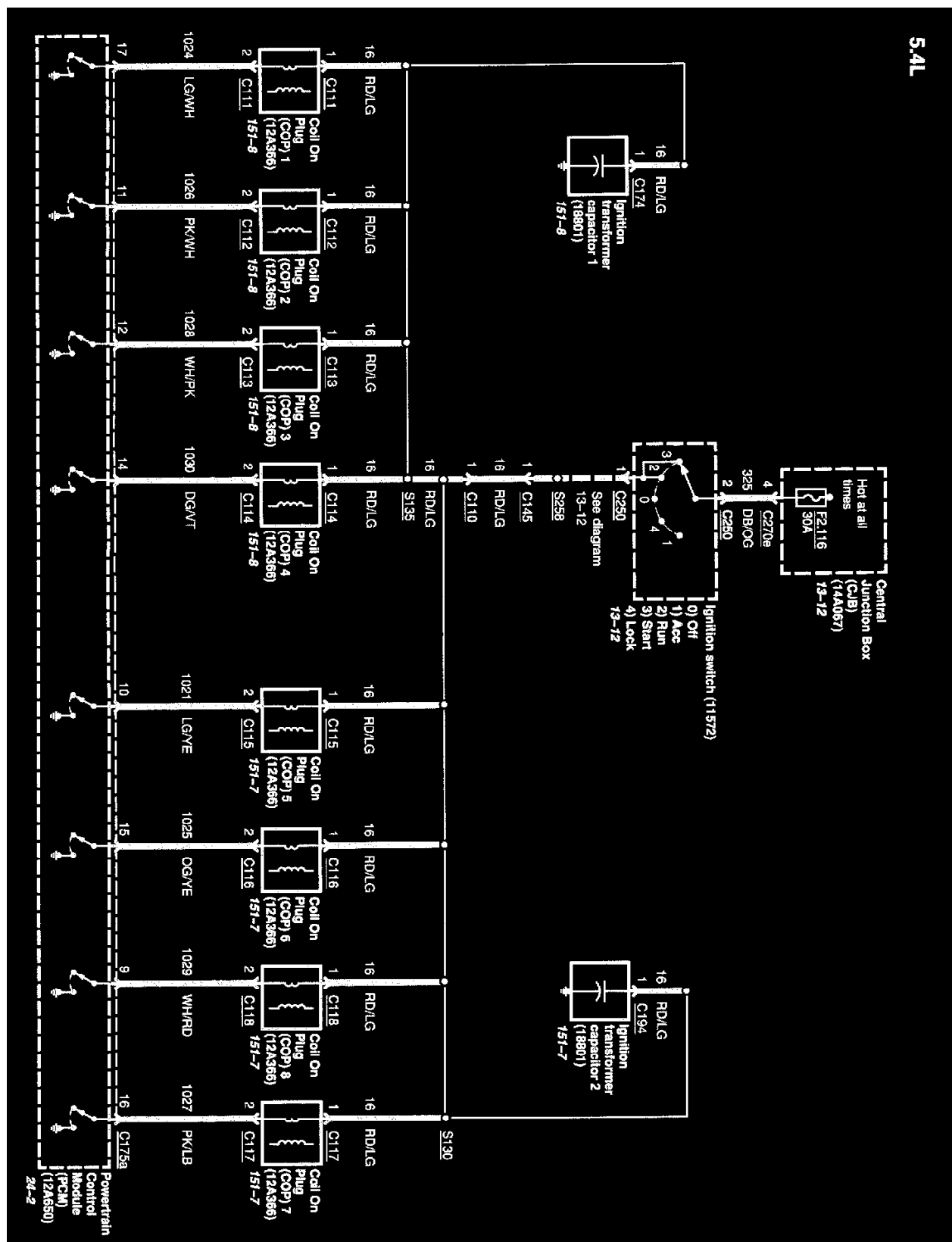
## Ignition System Diagrams

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

## 5.4L



## 5.4L



21-3

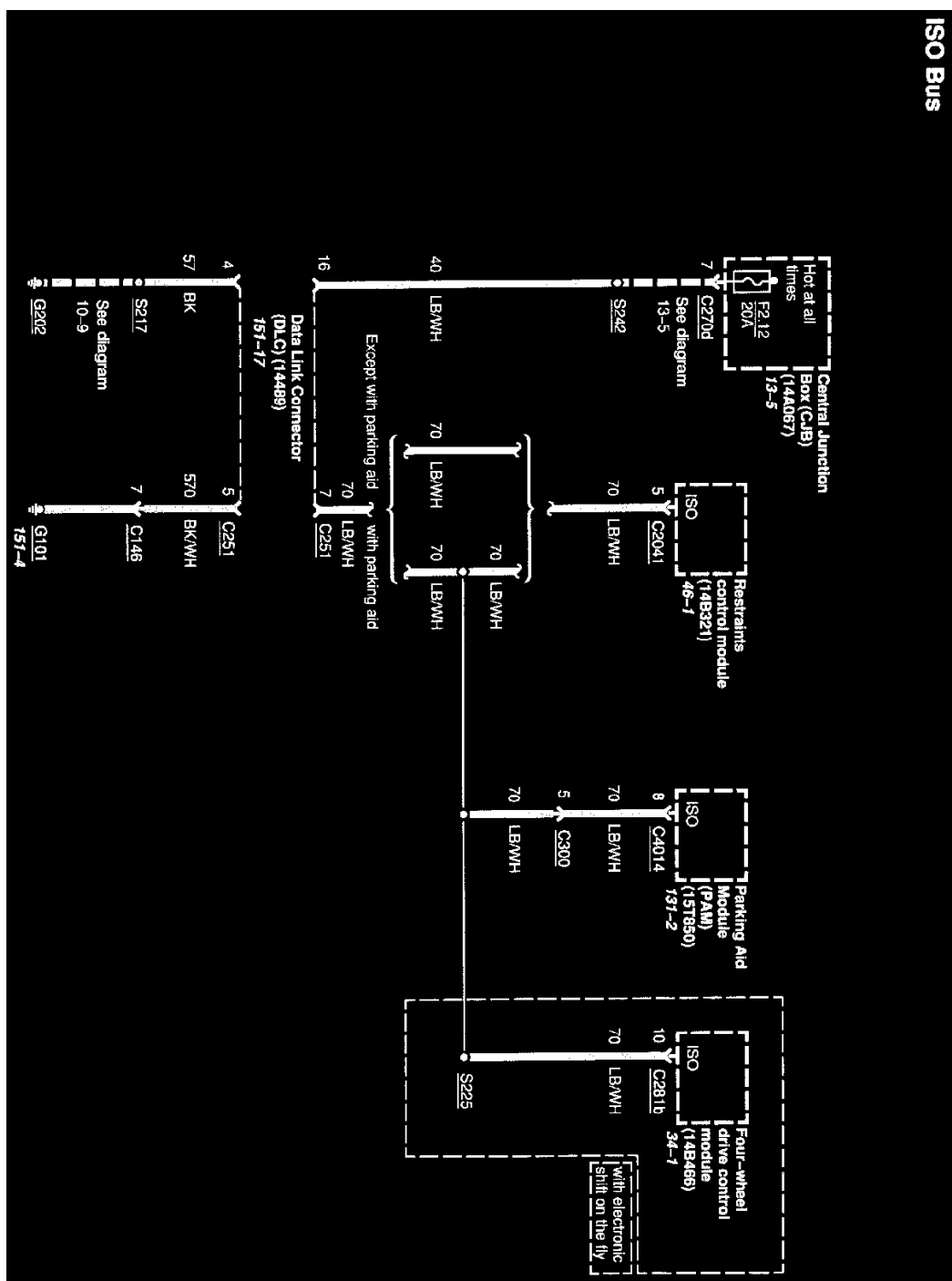
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

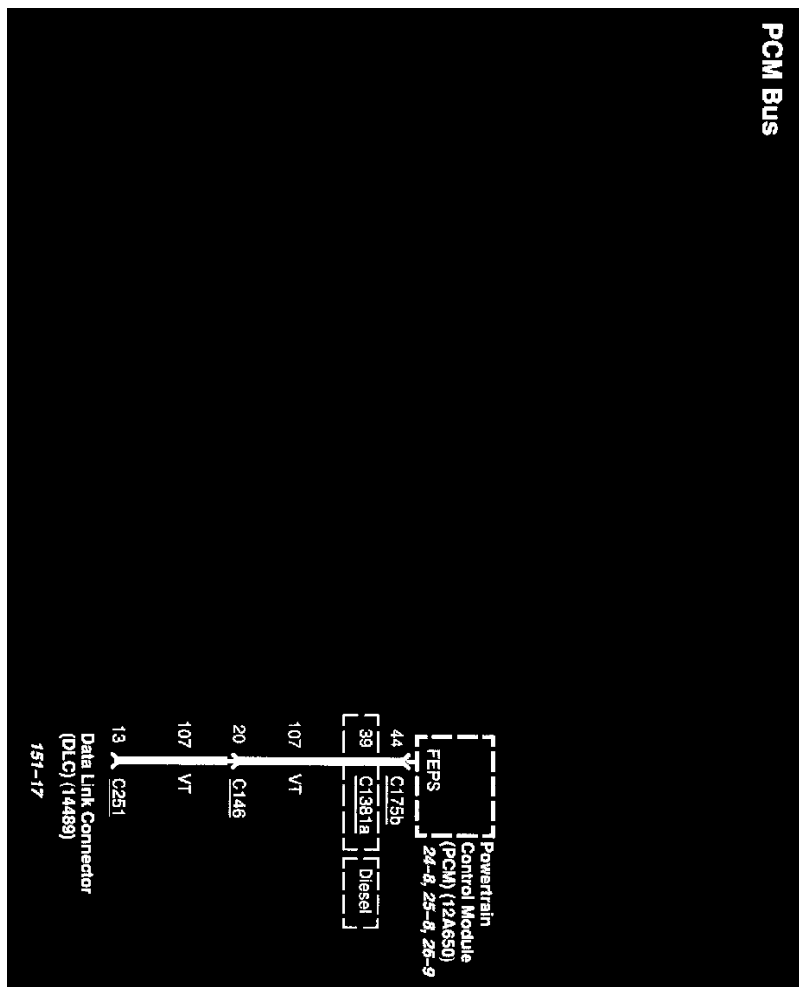
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

### Related Diagrams

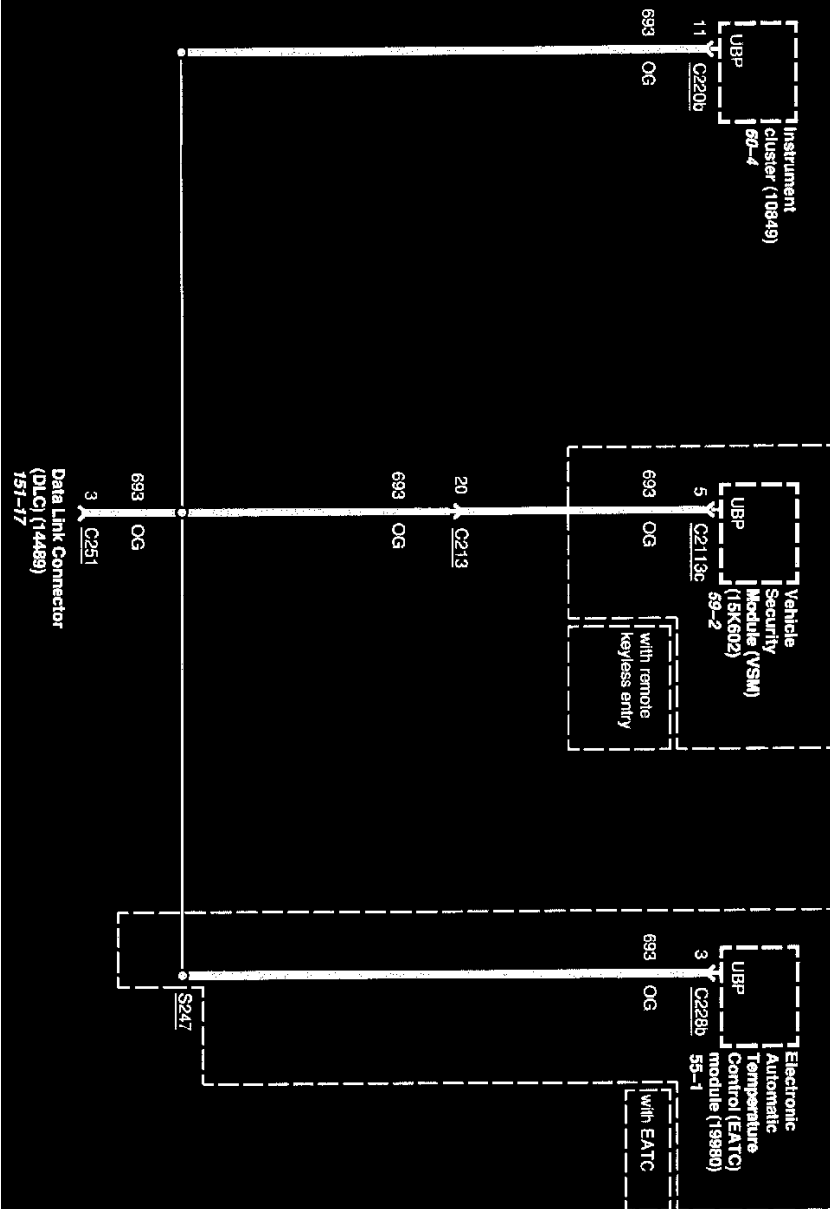
For information regarding additional diagrams that are closely related to the Ignition System, please refer to Powertrain Management Diagrams. See: Electrical Diagrams/Powertrain Management/System Diagram/Wiring Diagram Index

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





## UBP Bus





# CAN Bus

**CAN Bus**

Diagram illustrating the CAN Bus system connections for various modules and components:

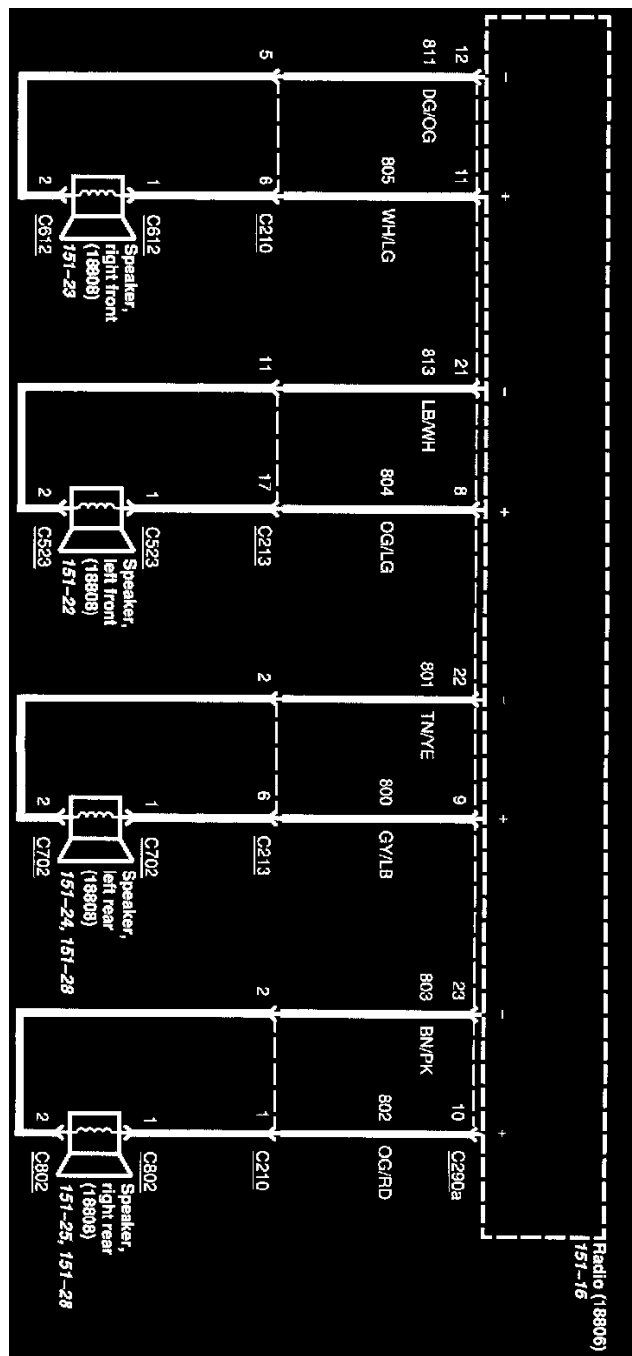
- ABS control module (2C219):** Connected to HS CAN+ (pin 3) and HS CAN- (pin 18).
- Powertrain Control Module (PCM) (12A650):** Connected to Diesel CAN+ (pin 11) and Diesel CAN- (pin 23).
- Instrument cluster (10846):** Connected to HS CAN+ (pin 7) and HS CAN- (pin 6).
- Trailer electronic brake control module (95-9):** Connected to pin 6.
- Other components and wiring:**
  - Washers (WH) and Brake (BK) lines are shown.
  - Wiring paths include S146, S142, S140, S109, S220, and S213.
  - Additional components like Diesel, CAN+, and CAN- are labeled.

**Diagrams:** Other diagrams referred to by number (See Diagram ###, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

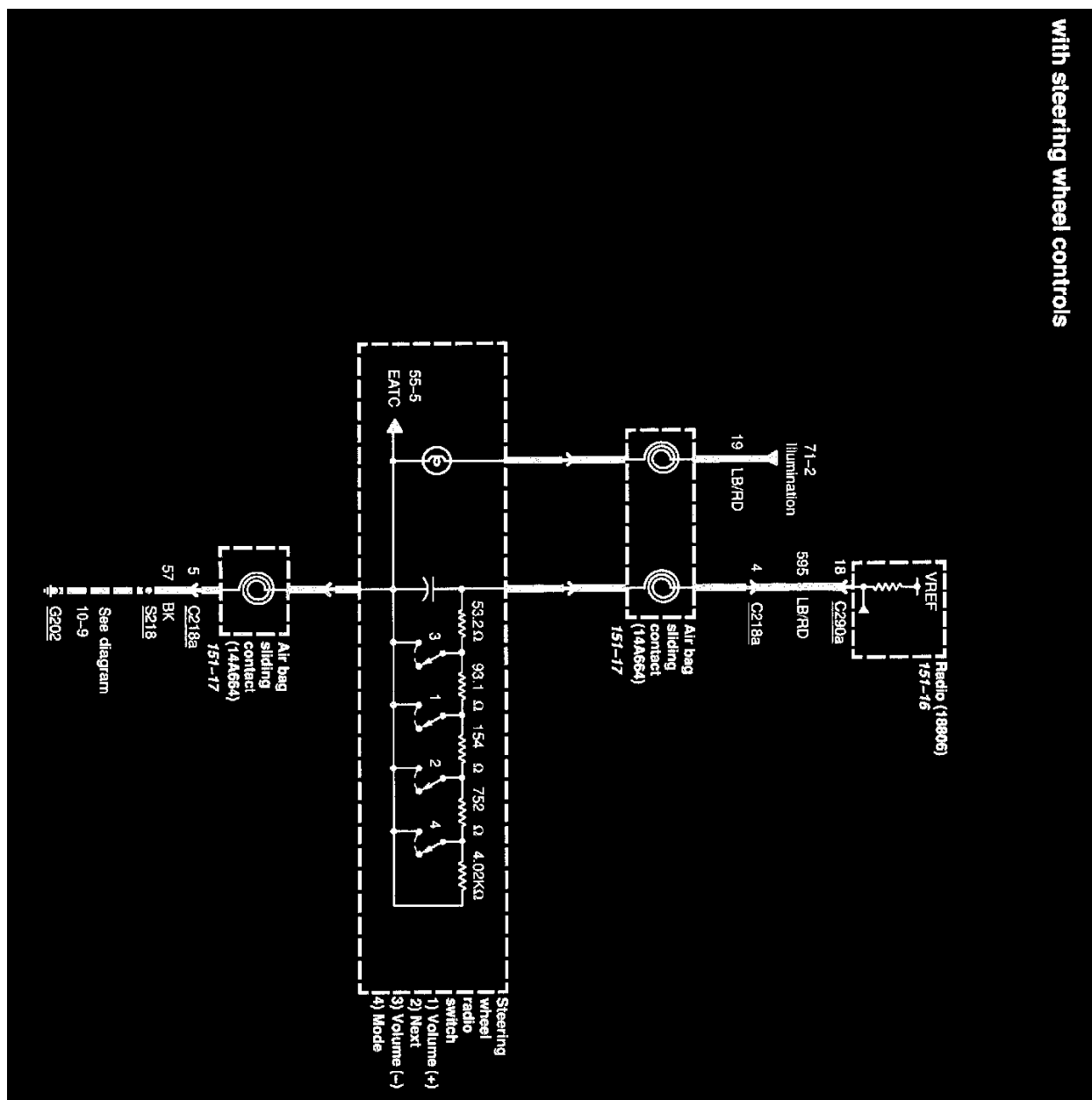
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.  
See: Components/Component Location Views

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





with steering wheel controls



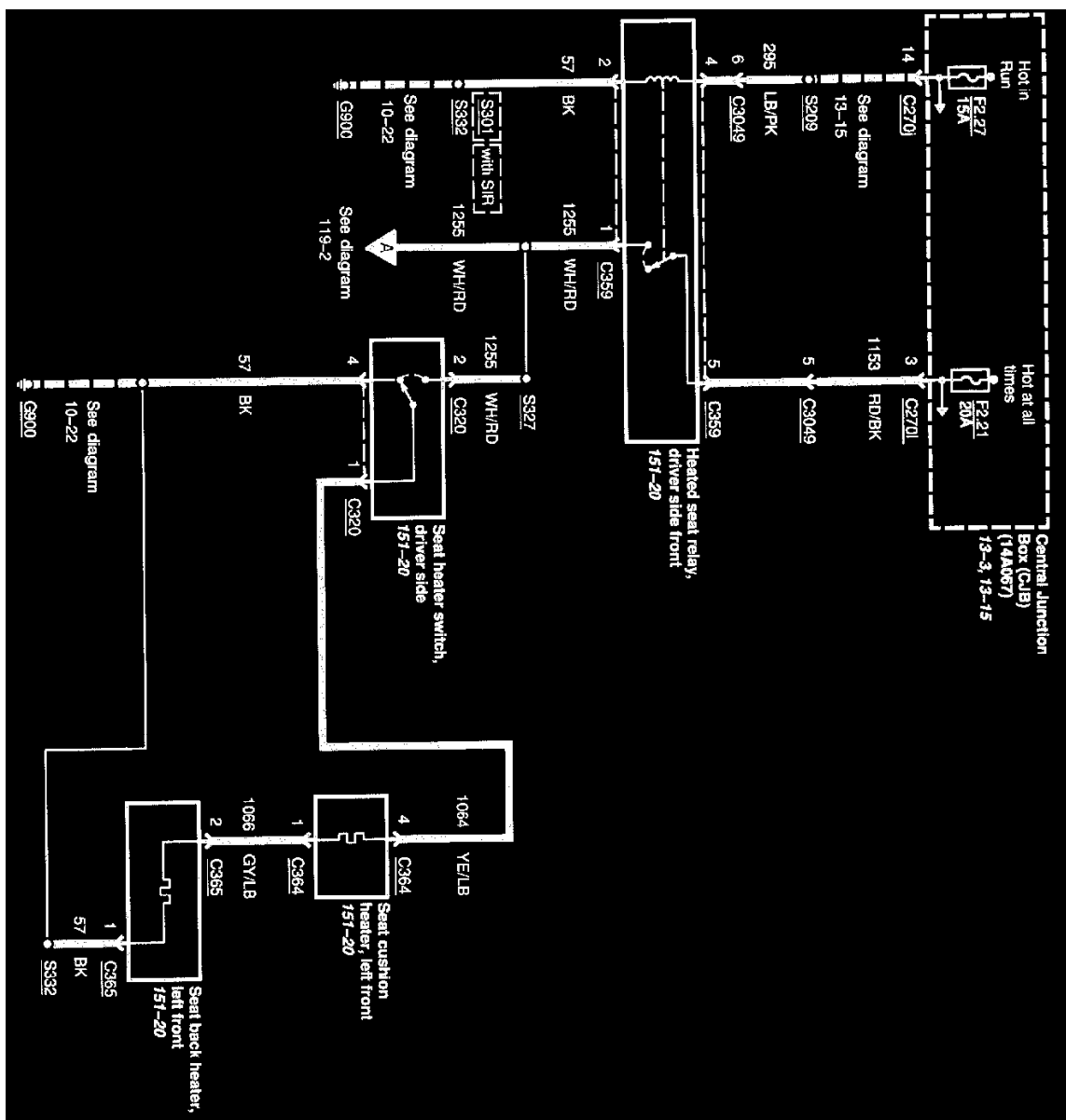
130-3

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

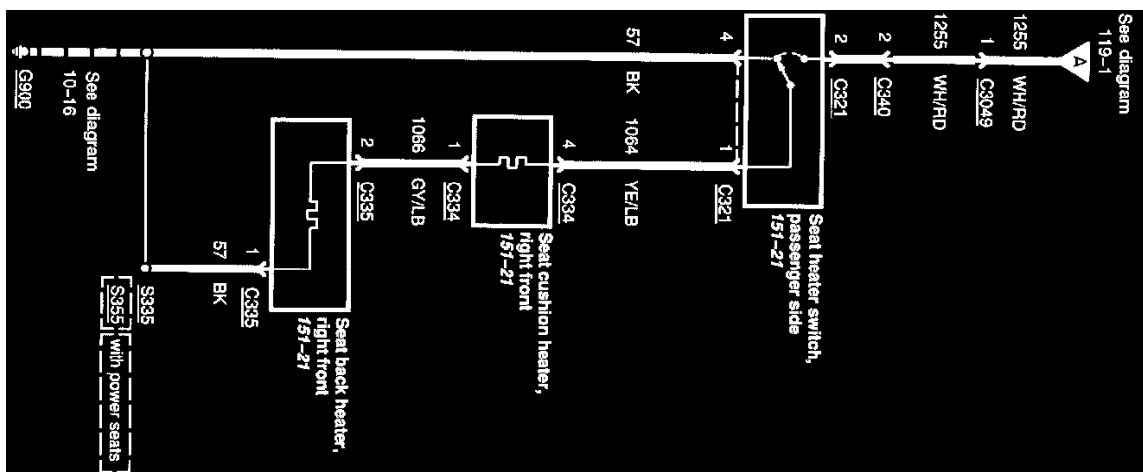
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Climate Controlled Seats

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



119-1



119-2

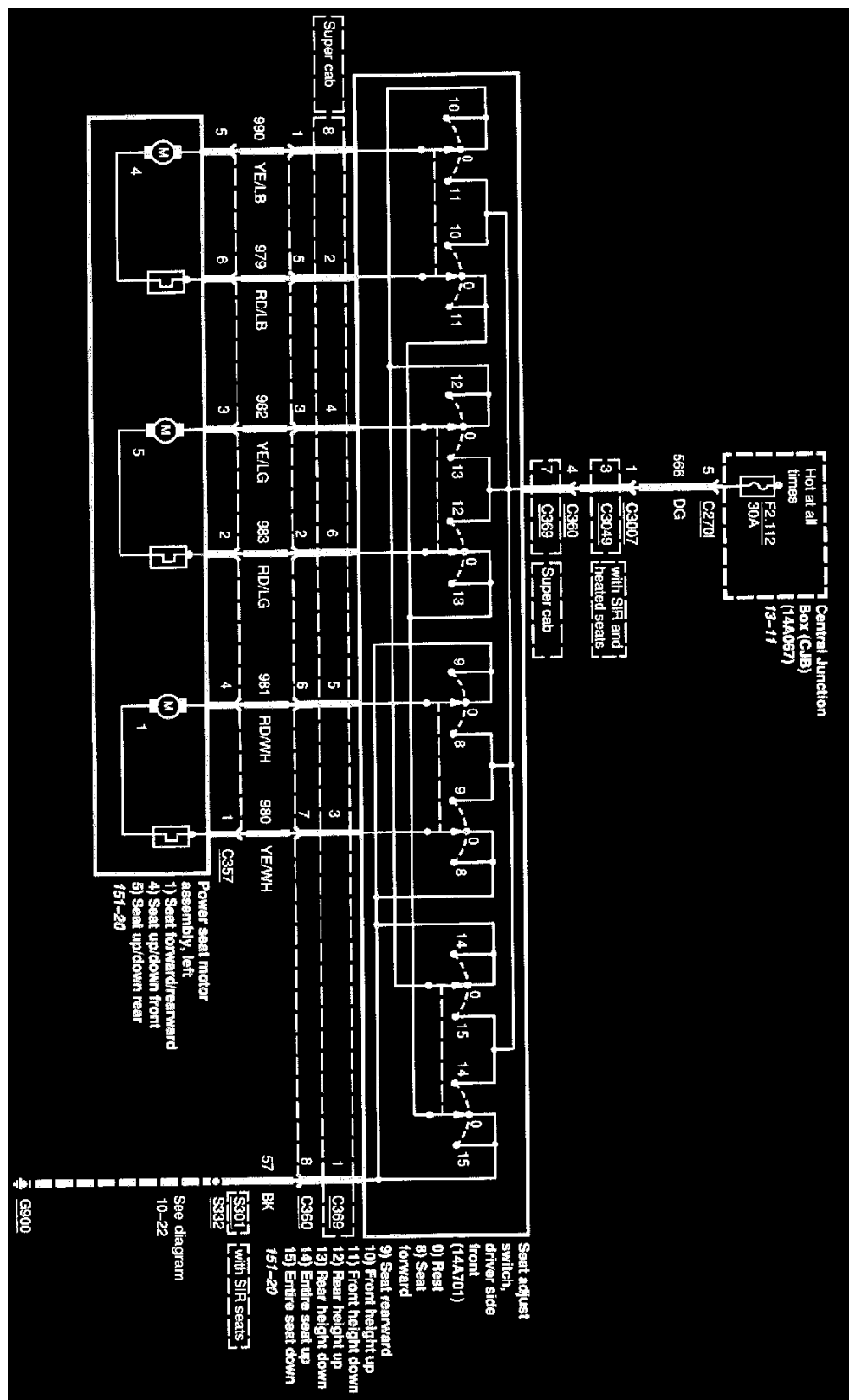
**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

**Power Seats**

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



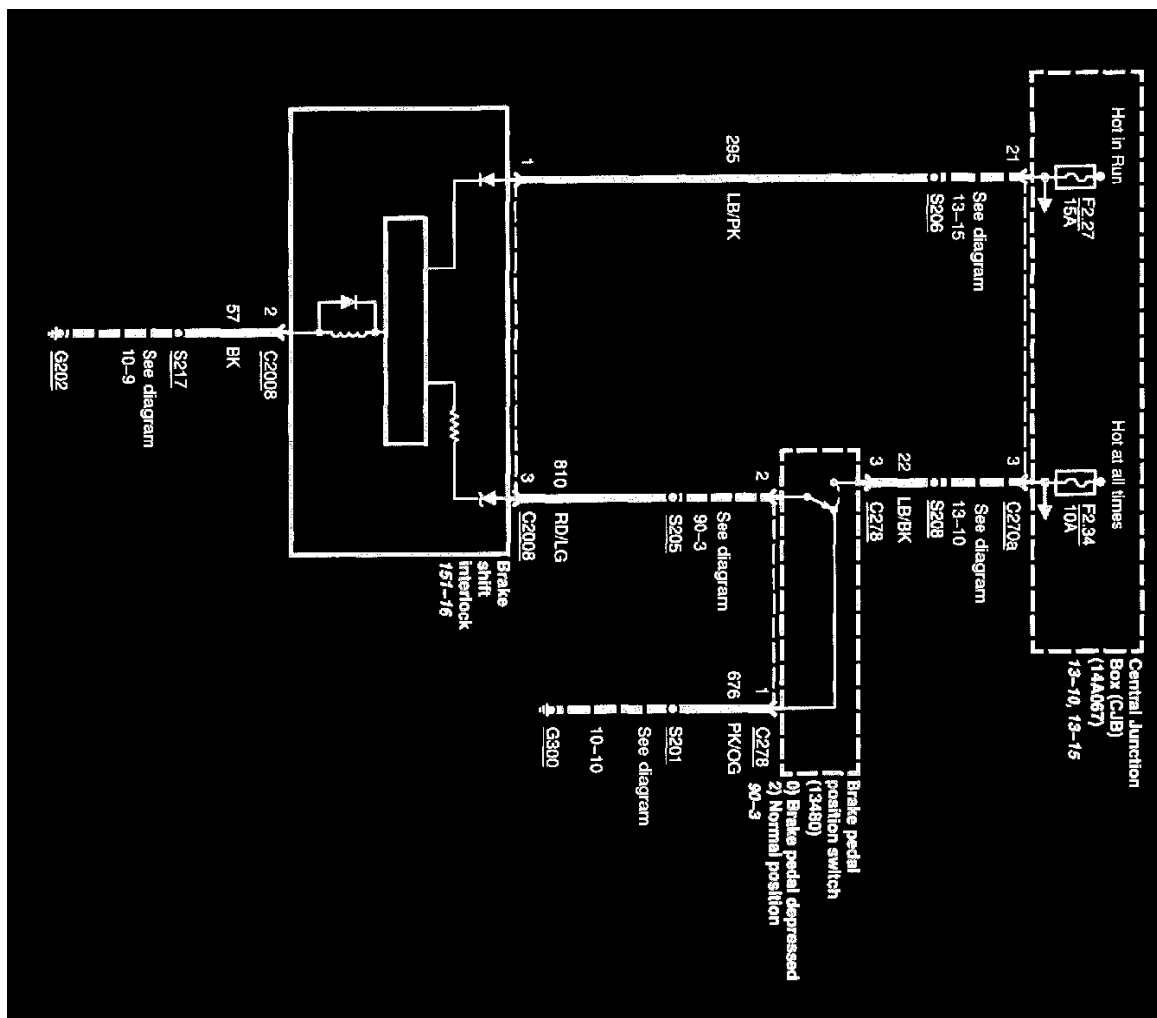
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.



See: Components/Component Location Views

## Shift Interlock, A/T

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.



**37-1**

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

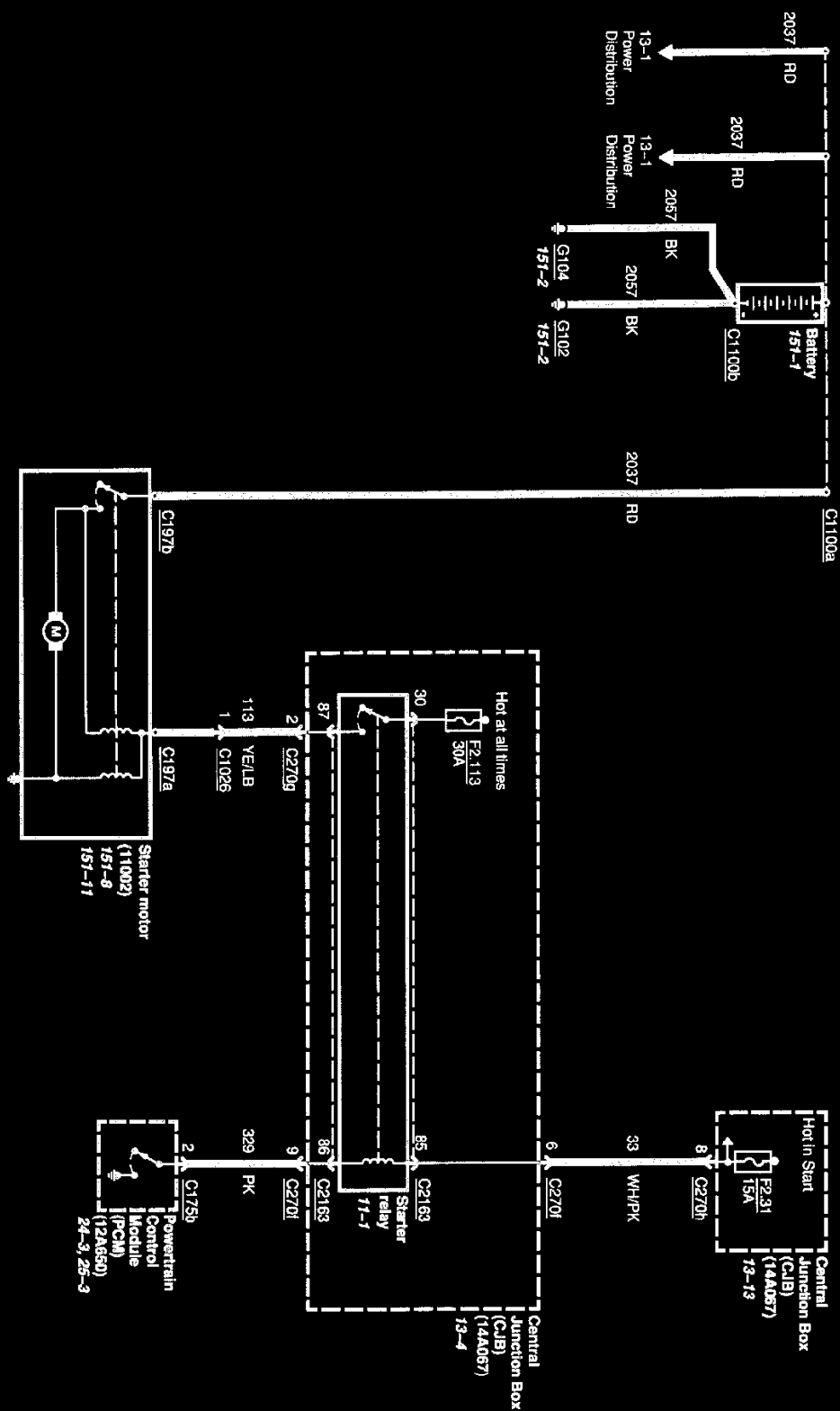
**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

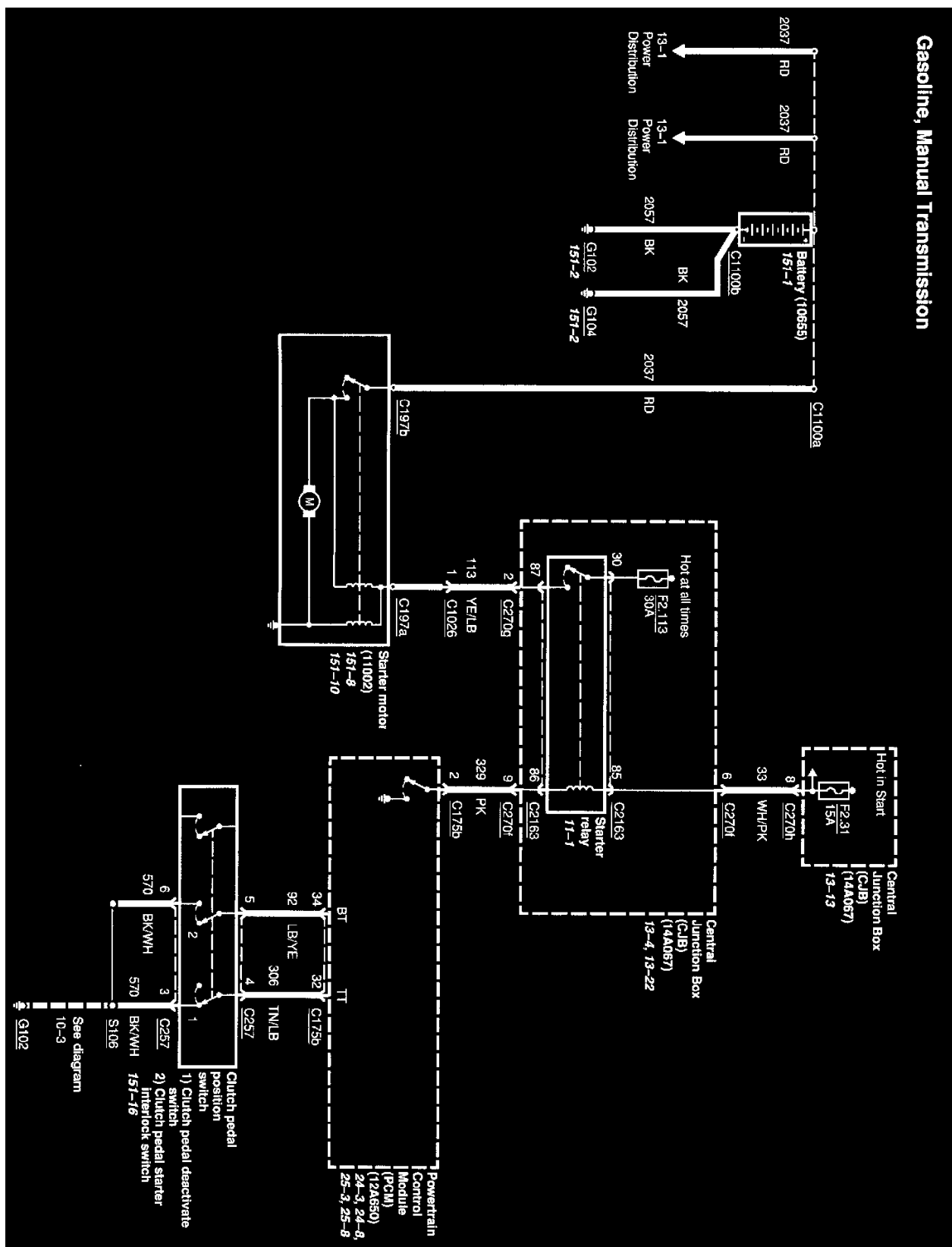
## Starting System

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

## Gasoline, with Automatic Transmission



## Gasoline, Manual Transmission



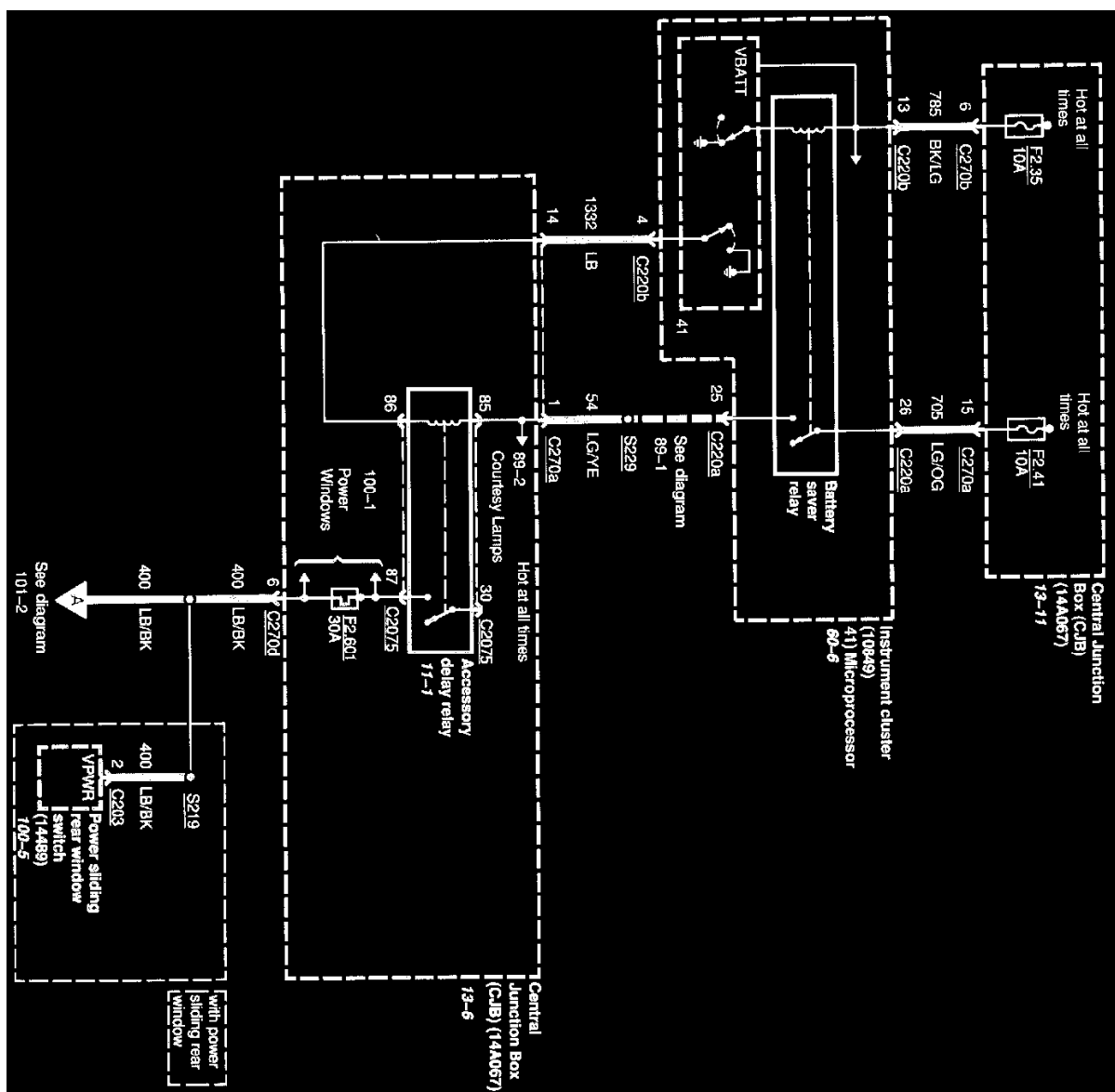
20-4

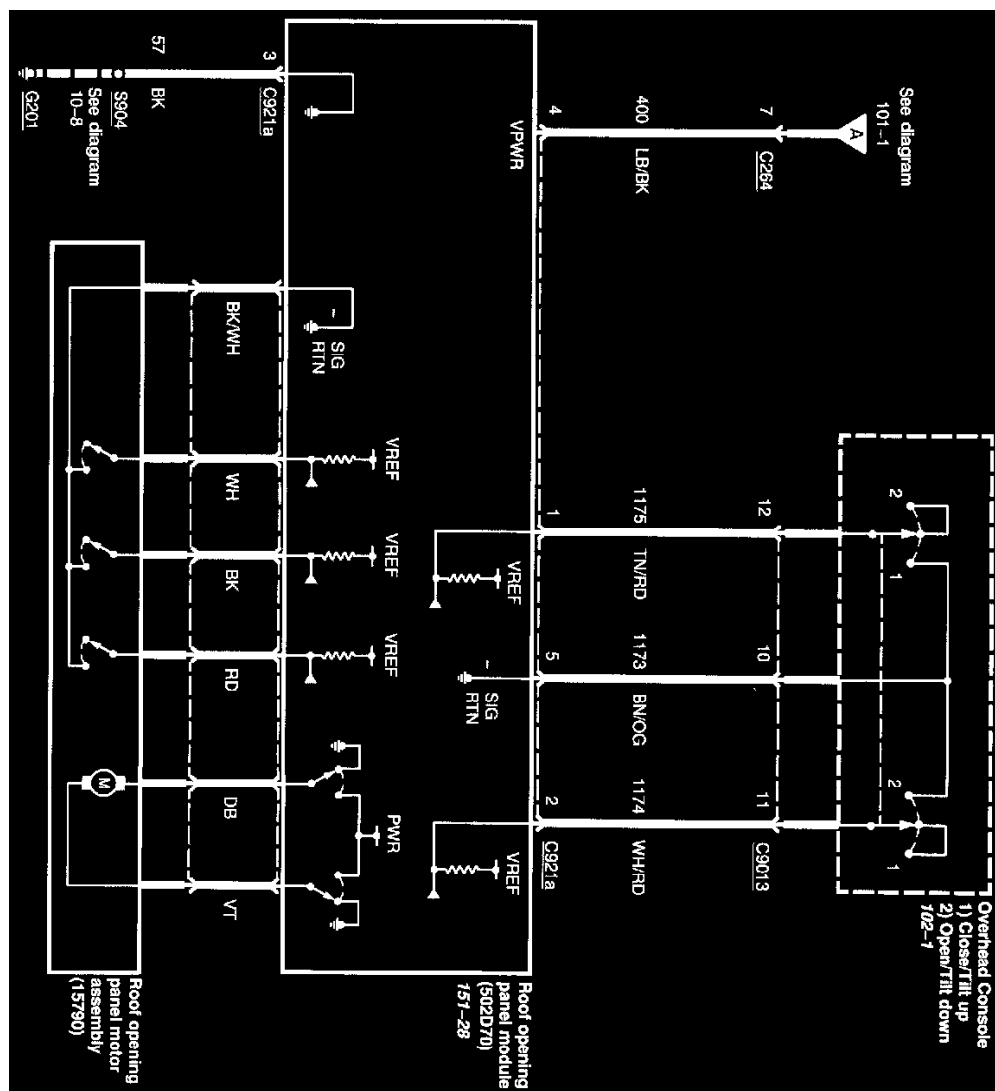
**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Sunroof / Moonroof

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





101-2

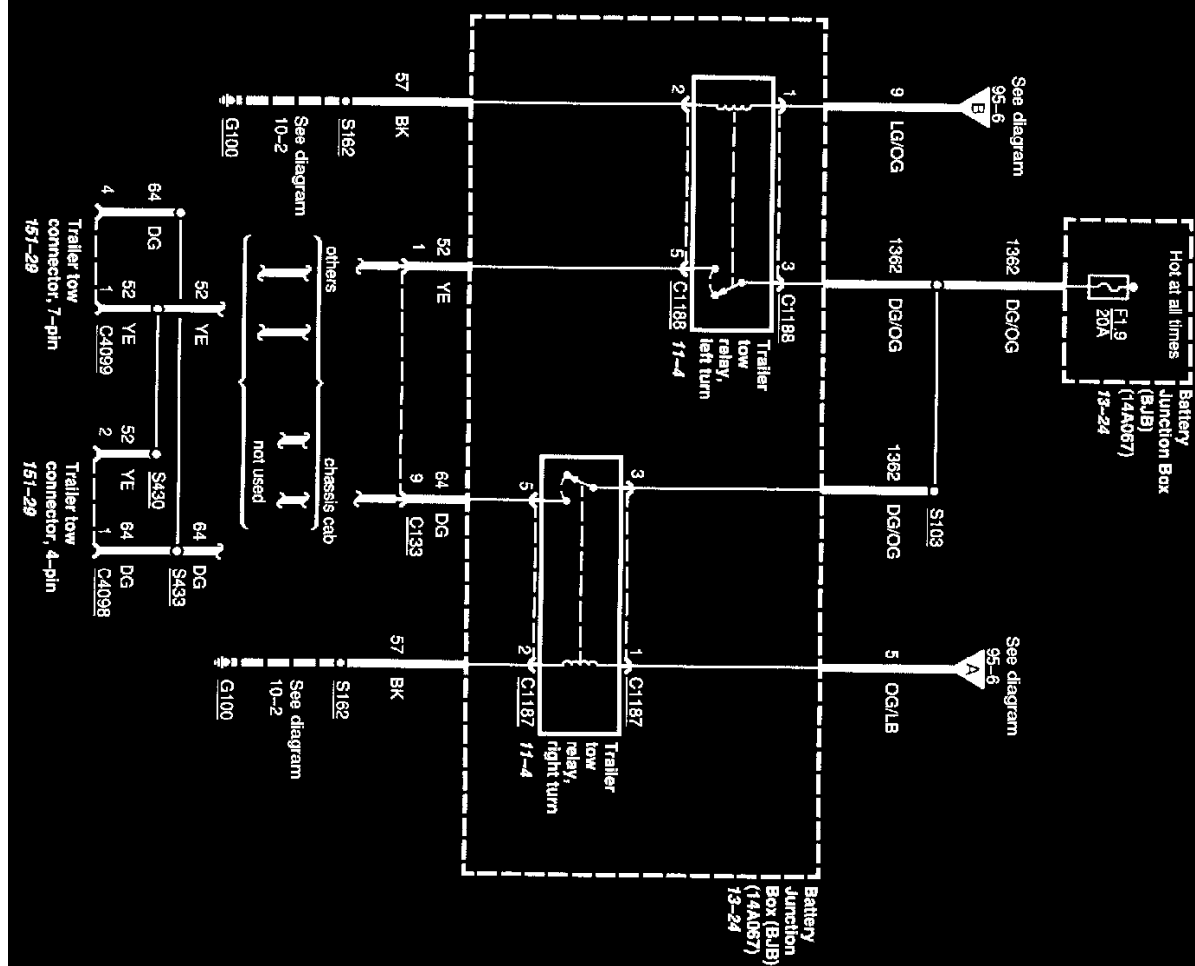
**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

## Trailer Connector

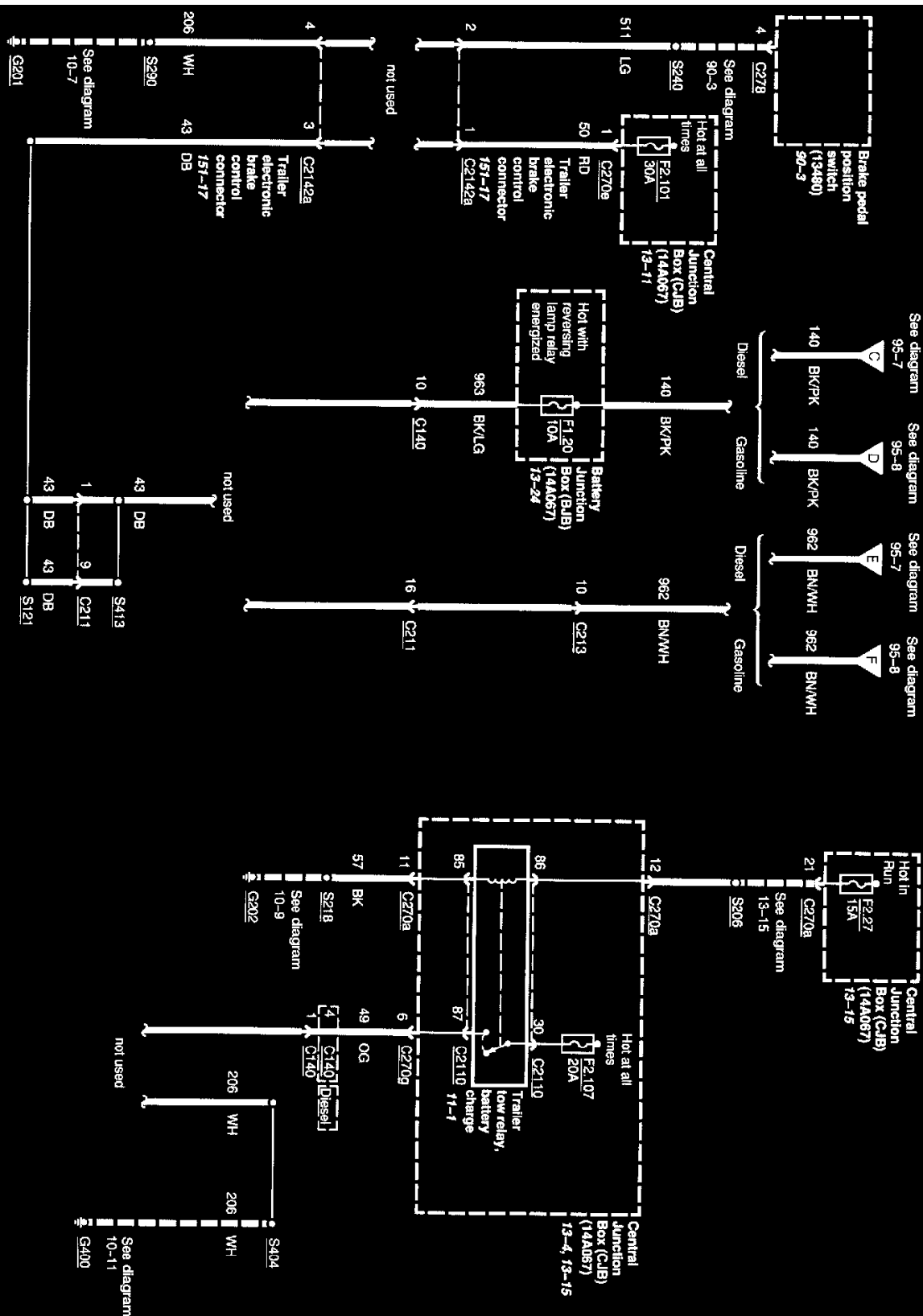
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

## Gasoline

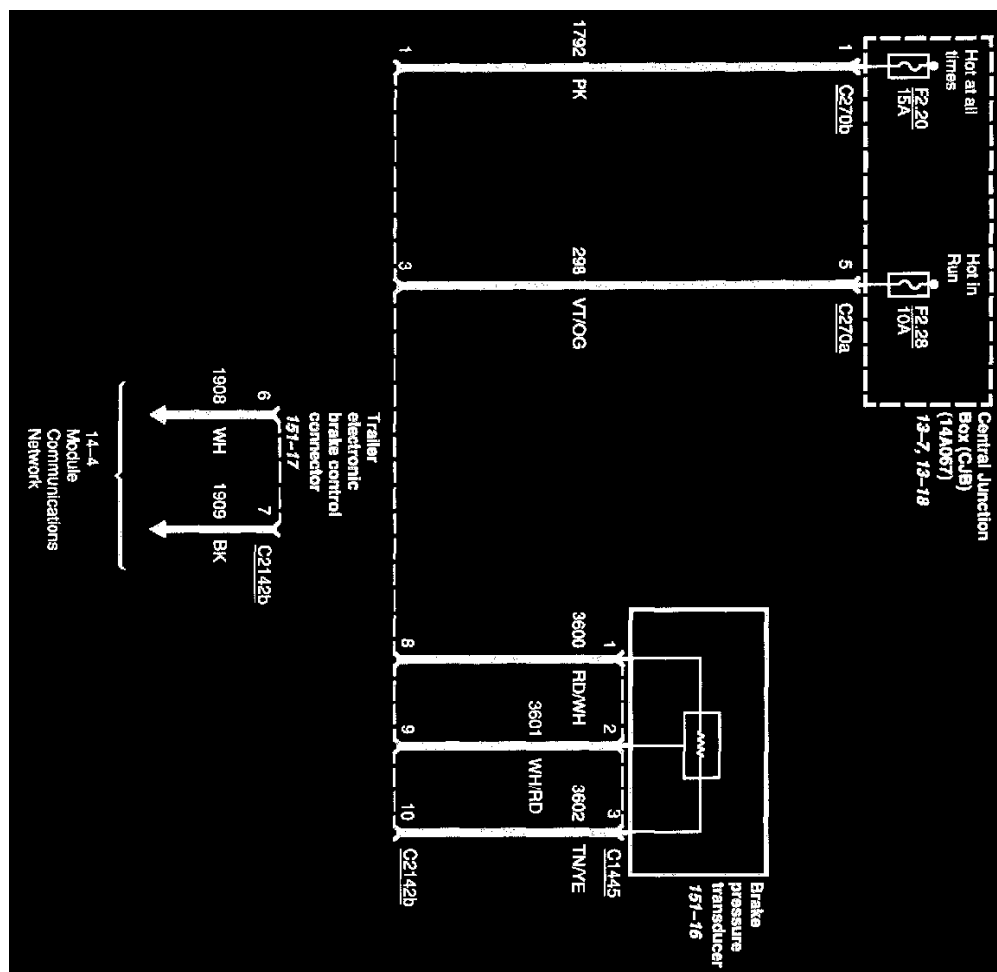




# chassis cab





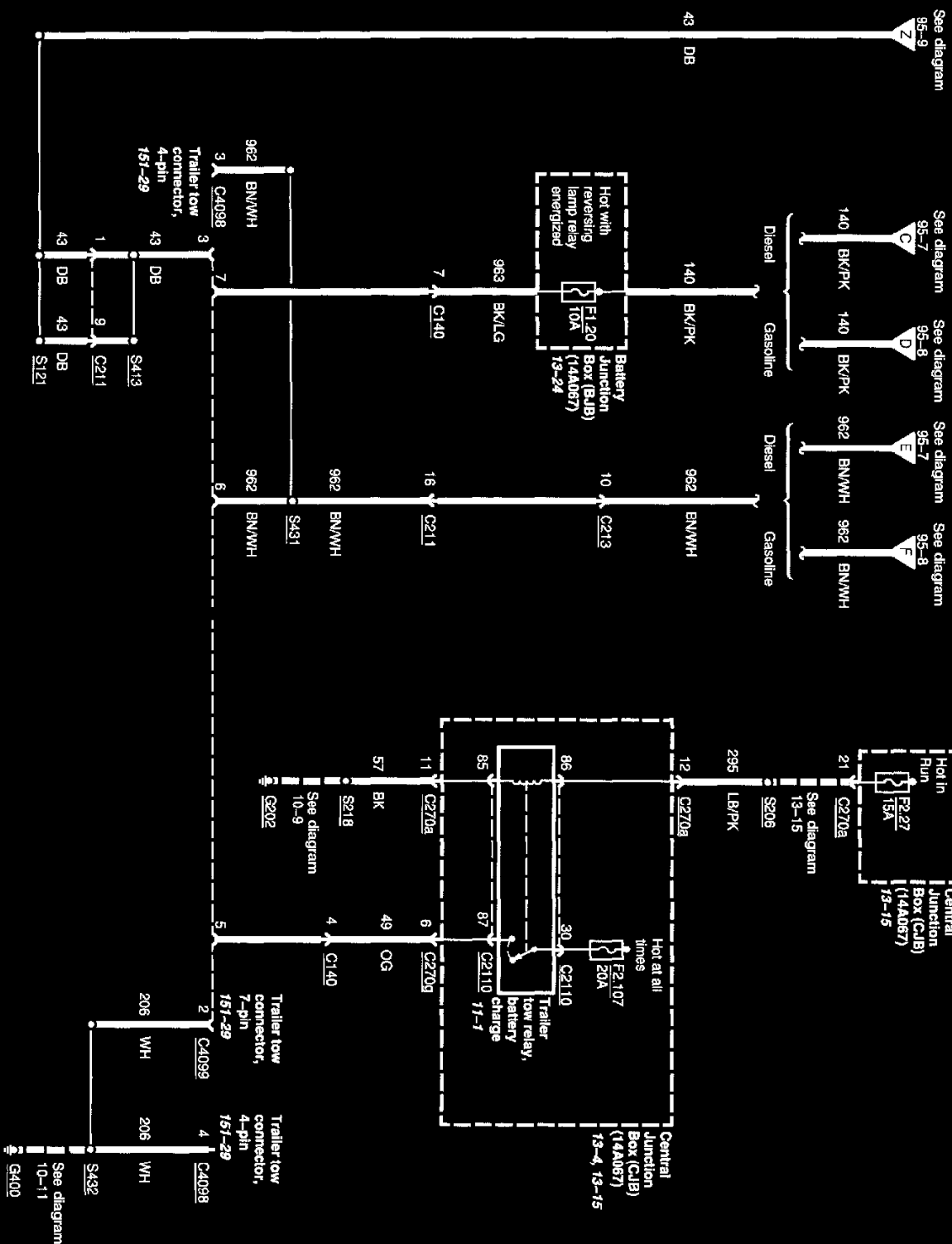




**95-8**



## with trailer brake control module



95-10

**Diagrams:** Other diagrams referred to by number (See Diagram #-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

|                                             |      |
|---------------------------------------------|------|
| Intermediate shaft speed sensor             | 29-1 |
| Output Shaft Speed sensor (OSS) sensor      | 29-1 |
| Pressure control (PC-A) solenoid            | 29-3 |
| Shift solenoid pressure control A (SSPC-A)  | 29-3 |
| Shift solenoid pressure control B (SSPC-B)  | 29-3 |
| Shift solenoid pressure control C (SSPC-C)  | 29-3 |
| Shift solenoid pressure control D (SSPC-D)  | 29-3 |
| Shift solenoid pressure control E (SSPC-E)  | 29-3 |
| Speed sensor assembly                       | 29-1 |
| Torque Converter Clutch (TCC) solenoid      | 29-3 |
| Tow/haul switch                             | 29-1 |
| Transmission Fluid Temperature (TFT) sensor | 29-2 |
| Transmission Range Sensor Assembly (TR-P)   | 29-3 |
| Turbine shaft speed sensor                  | 29-1 |

## 29-1

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

29-1

**Diagrams:** Other diagrams referred to by number (See Diagram ##-#, etc.) within these diagrams can be found at **Diagrams By Number**. See: Electrical Diagrams/Diagrams By Number

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

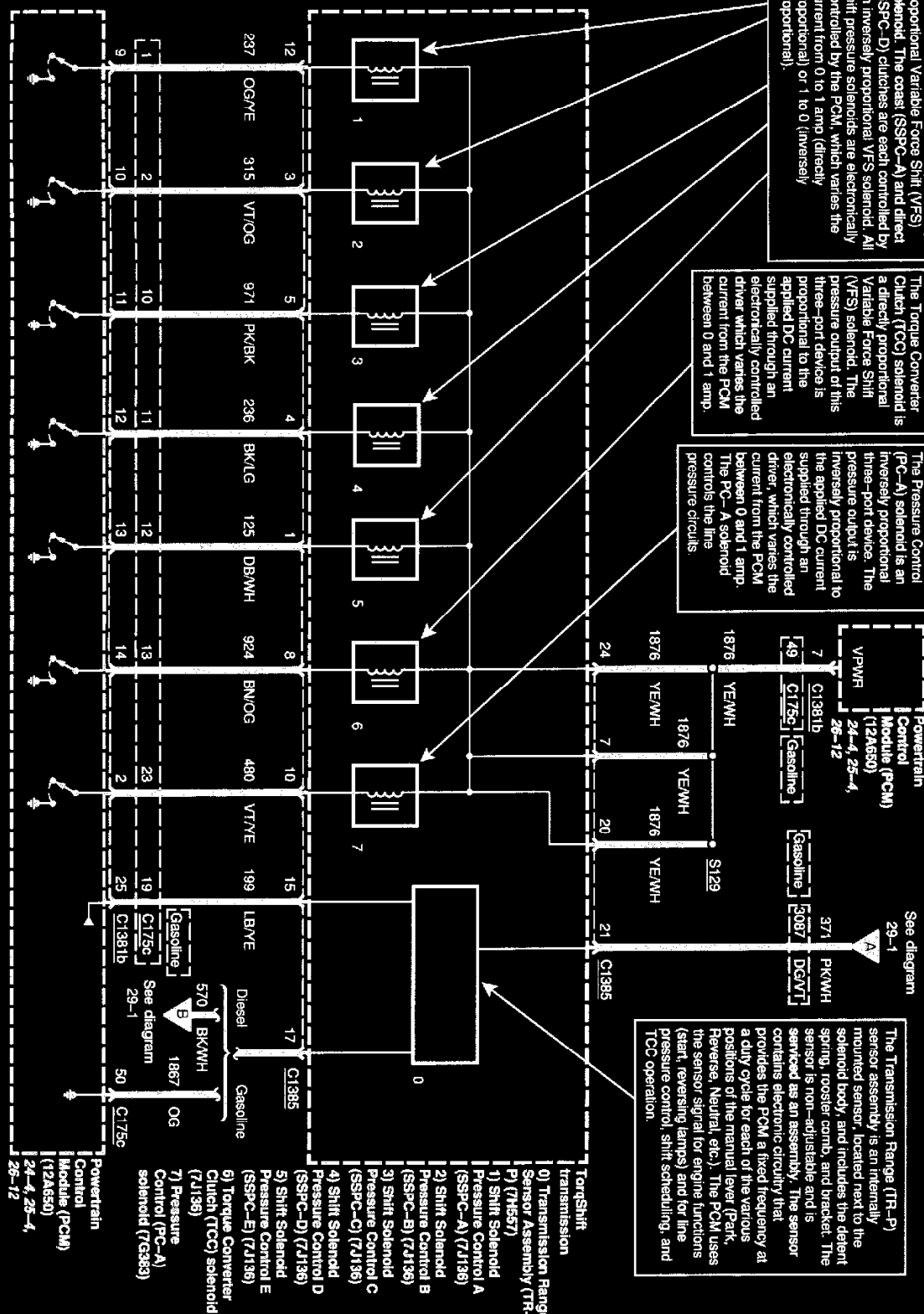


# TorqShift

The intermediate (SSPC-C), low/reverse (SSPC-E), and overdrive (SSPC-B) clutches are each controlled by a directly proportional Variable Force Shift (VFS) solenoid. The coast (SSPC-A) and direct (SSPC-D) clutches are each controlled by an inversely proportional VFS solenoid. All shift pressure solenoids are electronically controlled by the PCM, which varies the current from 0 to 1 amp (directly proportional) or 1 to 0 (inversely proportional).

The Torque Converter Clutch (TCC) solenoid is a directly proportional Variable Force Shift (VFS) solenoid. The pressure output of this three-port device is supplied to the applied DC current proportional to the electronically controlled driver which varies the current from the PCM between 0 and 1 amp.

The Pressure Control (PC-A) solenoid is an inversely proportional three-port device. The pressure output of this three-port device is supplied through an electronically controlled driver, which varies the current from the PCM between 0 and 1 amp. The PC-A solenoid controls the line pressure circuits.

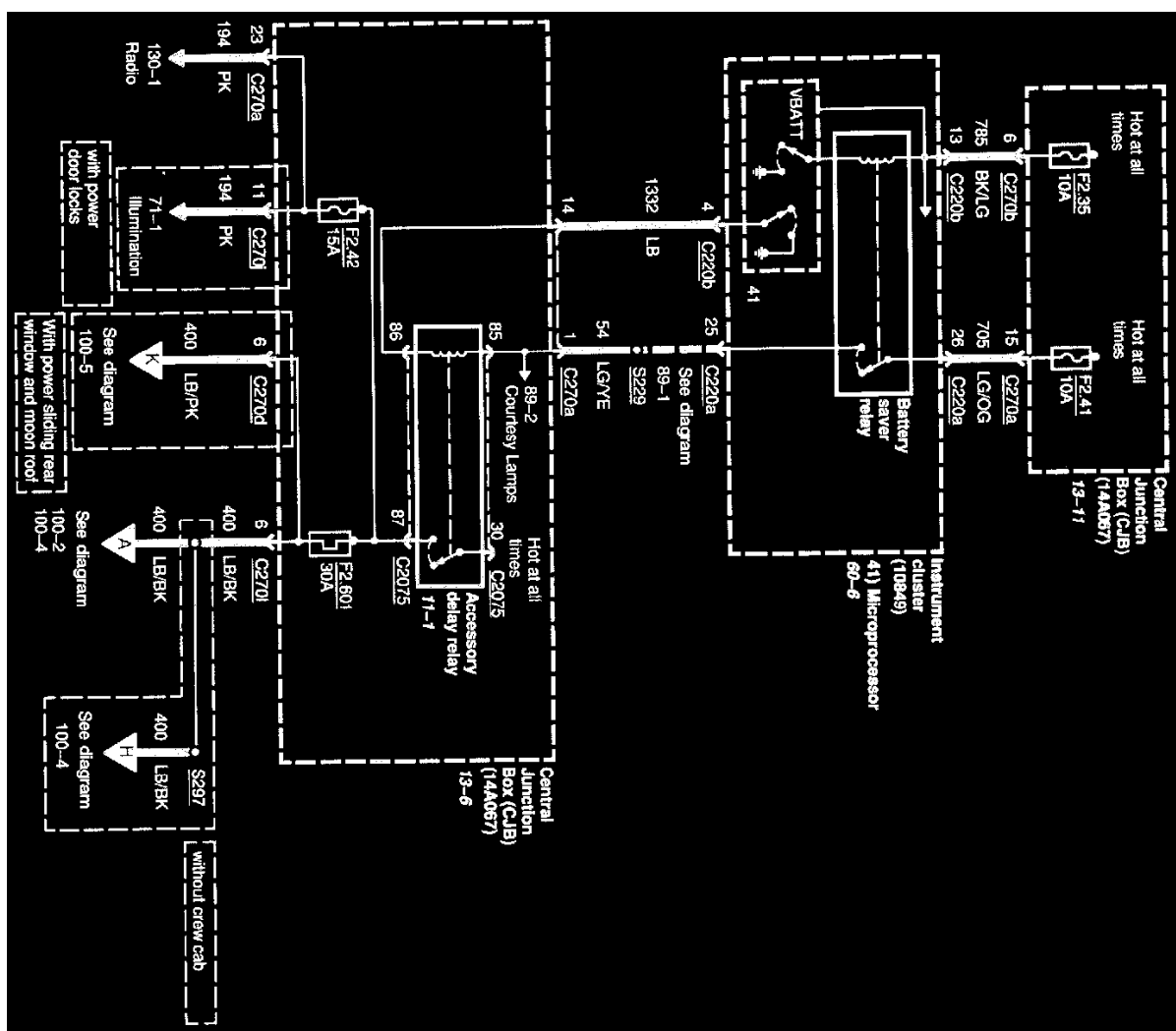


**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**.

See: Components/Component Location Views

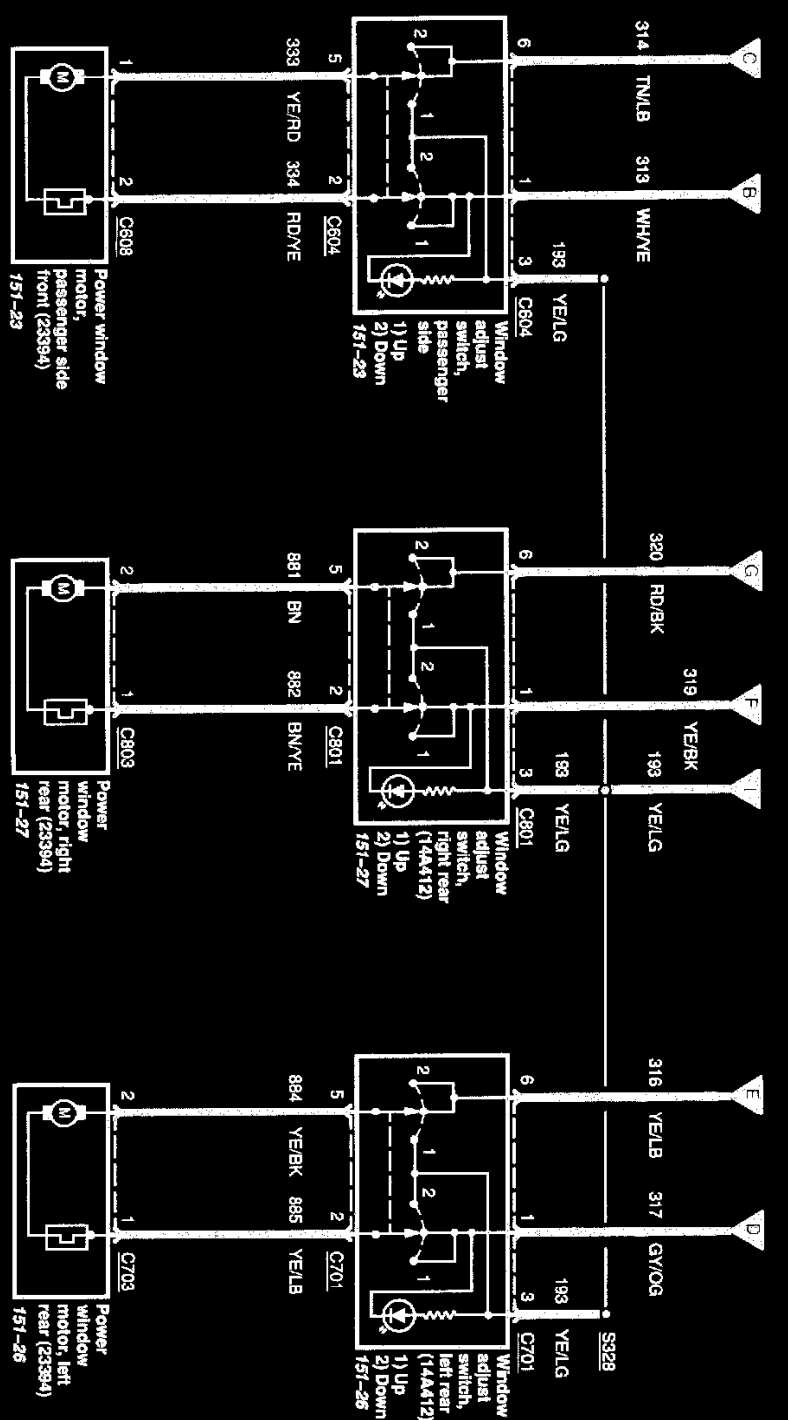
## Windows

**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.

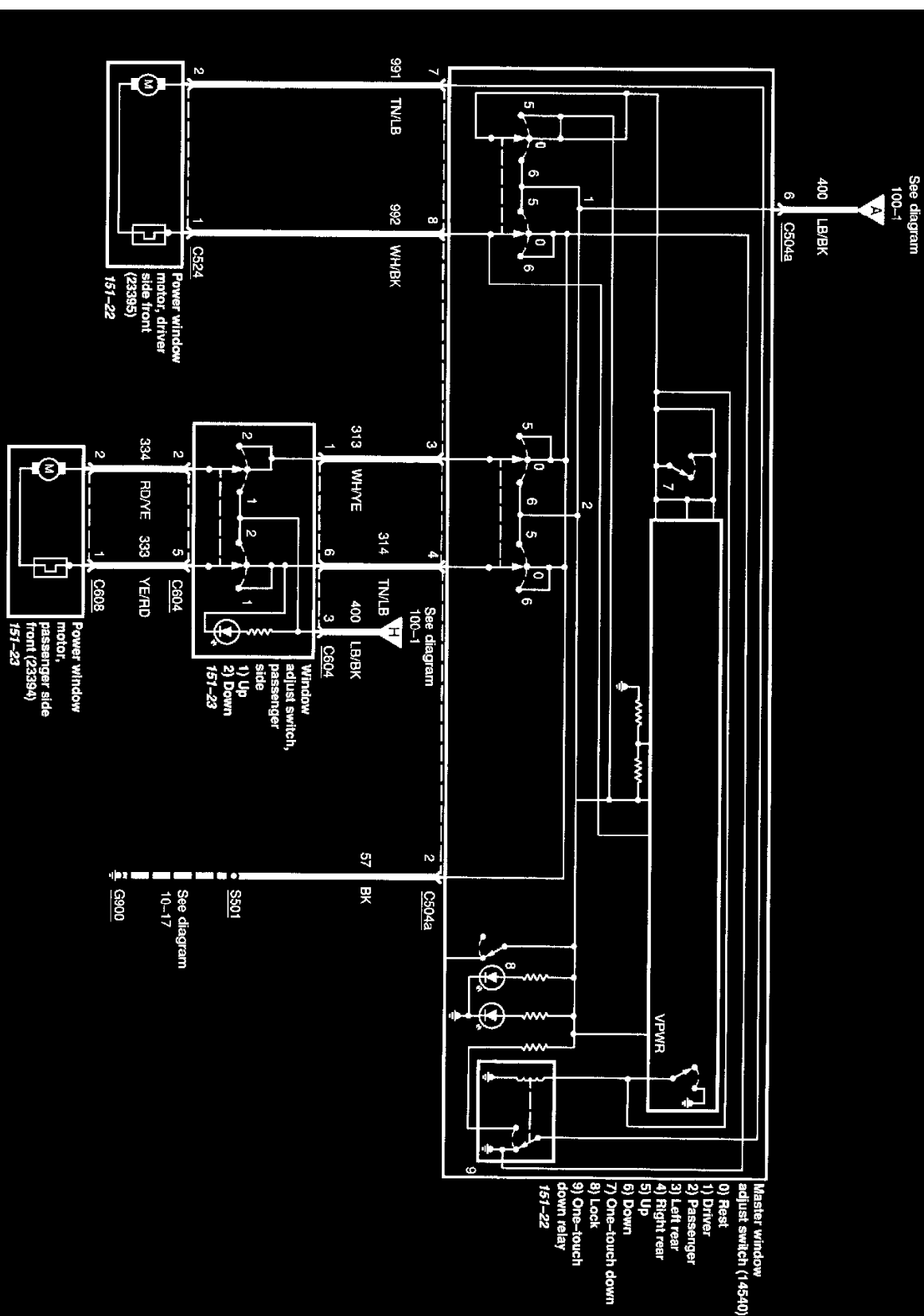




with crew cab

See diagram  
100-2

without crew cab





**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views

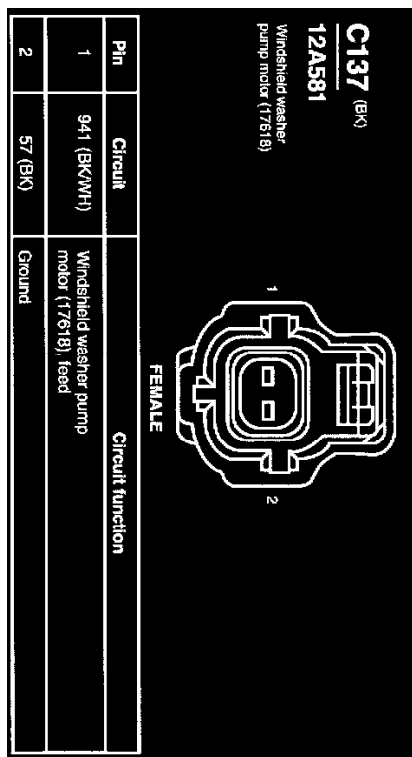
**PLEASE NOTE:** Some diagrams may appear to be missing because of gaps in the number sequences. These "gaps" are actually for diagrams that do not apply to the vehicle model selected.





**Locations:** Location Views (reference numbers starting with 151-) referred to within these diagrams can be found at **Component Location Views**. See: Components/Component Location Views





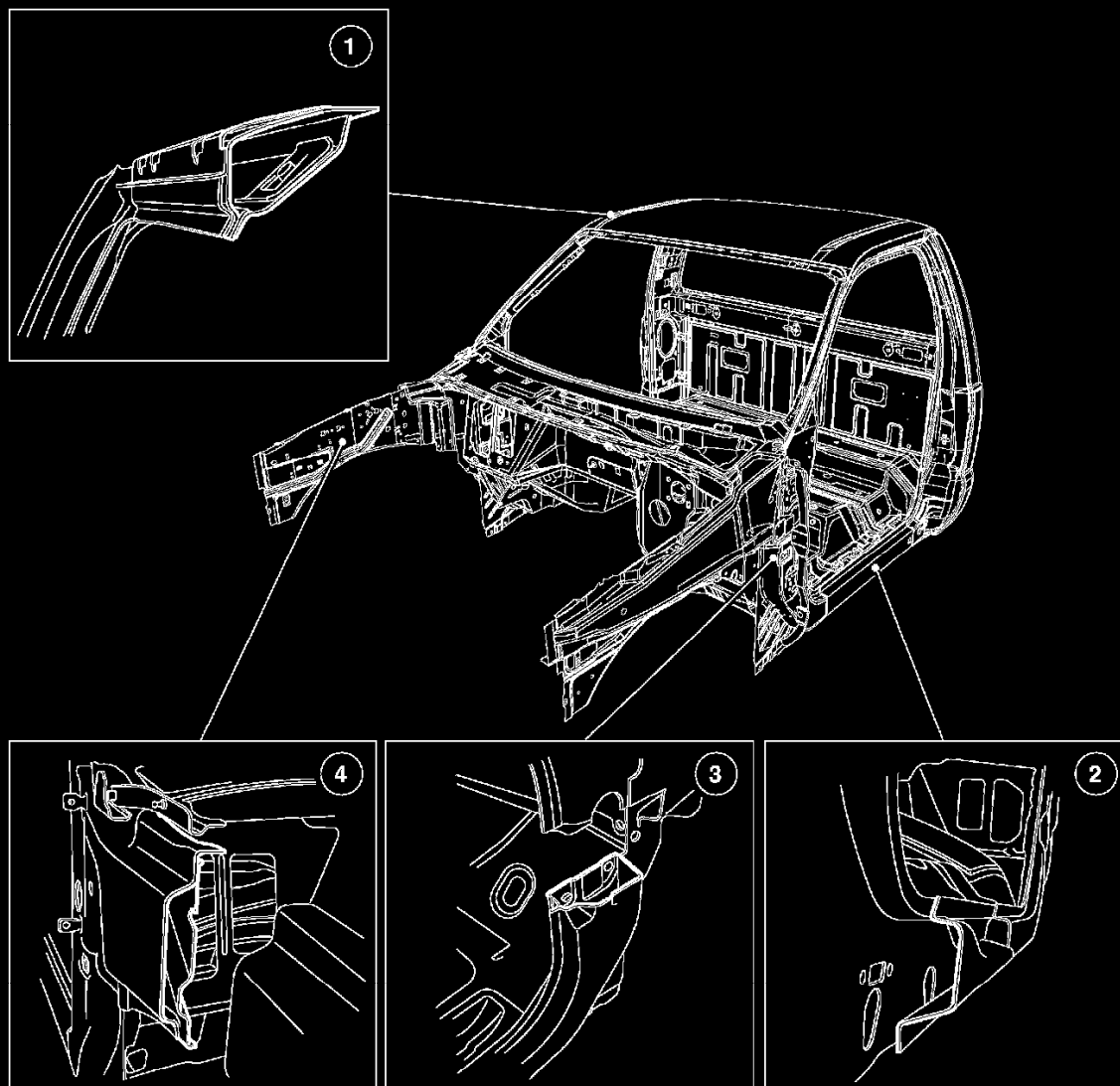
## Cutaway View — Front Structure

⚠ CAUTION: Do not heat high-strength steel to straighten.

NOTE: Install a new part if the part has sustained damage resulting in a kink or tear.

NOTE: Cutaway view is accurate in highlighted area. View is intended as a guideline only.

NOTE: Cutaway view does not indicate recommended sectioning area.



A0073028

| Item | Description                               |
|------|-------------------------------------------|
| 1    | Roof side rail reinforcement cutaway view |
| 2    | Body rocker panel cutaway view            |
| 3    | Front body pillar cutaway view            |
| 4    | Inner fender reinforcement cutaway view   |

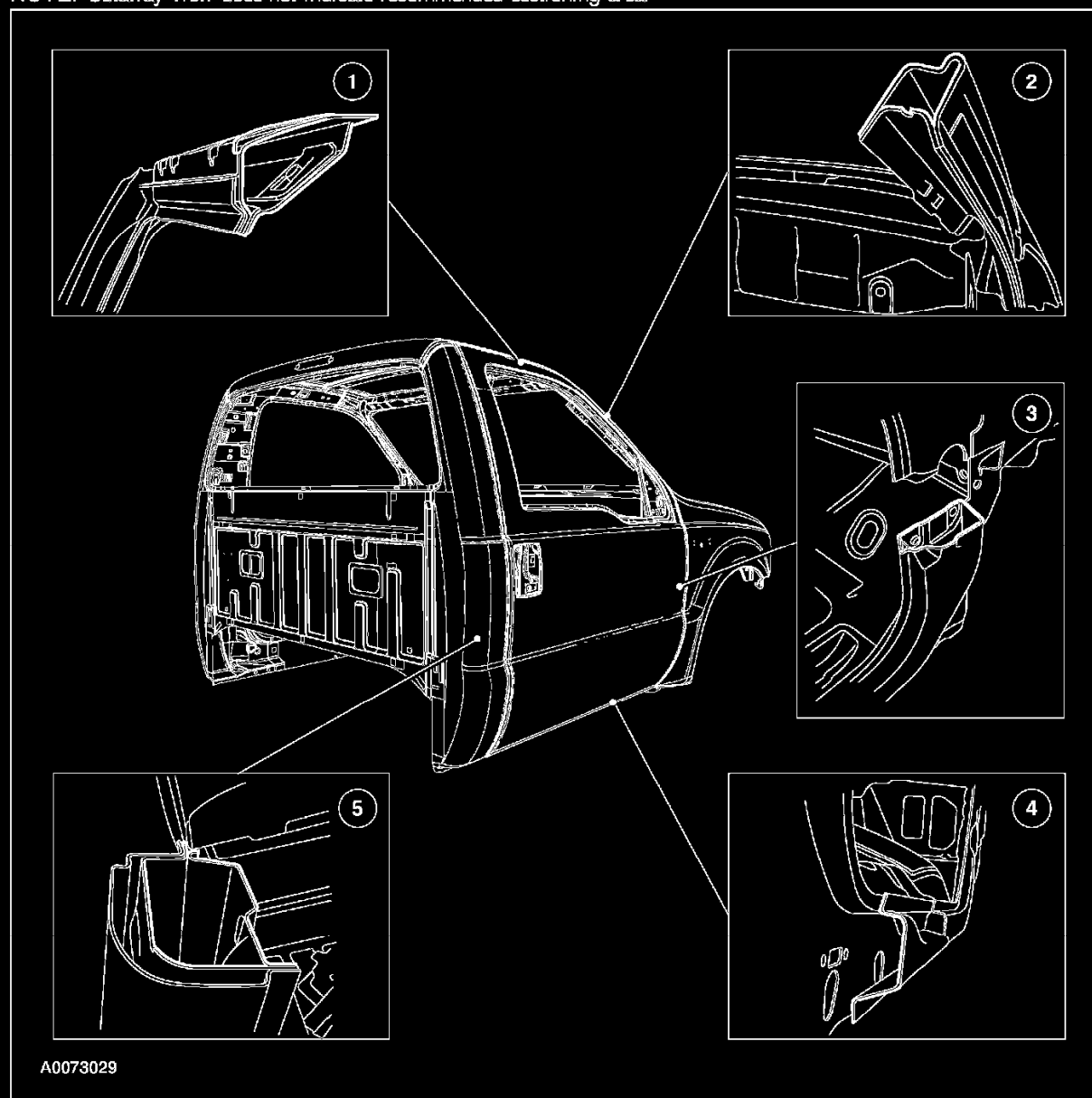
## Cutaway View — Regular Cab

⚠ CAUTION: Do not heat high-strength steel to straighten.

NOTE: Install a new part if the part has sustained damage resulting in a kink or tear.

NOTE: Cutaway view is accurate in highlighted area. View is intended as a guideline only.

NOTE: Cutaway view does not indicate recommended sectioning area.



| Item | Description                                  |
|------|----------------------------------------------|
| 1    | Roof line cutaway view                       |
| 2    | Front body pillar reinforcement cutaway view |

| Item | Description                        |
|------|------------------------------------|
| 3    | Front body pillar cutaway view     |
| 4    | Body rocker panel cutaway view     |
| 5    | Rear cab corner panel cutaway view |

## Cutaway View - Regular Cab

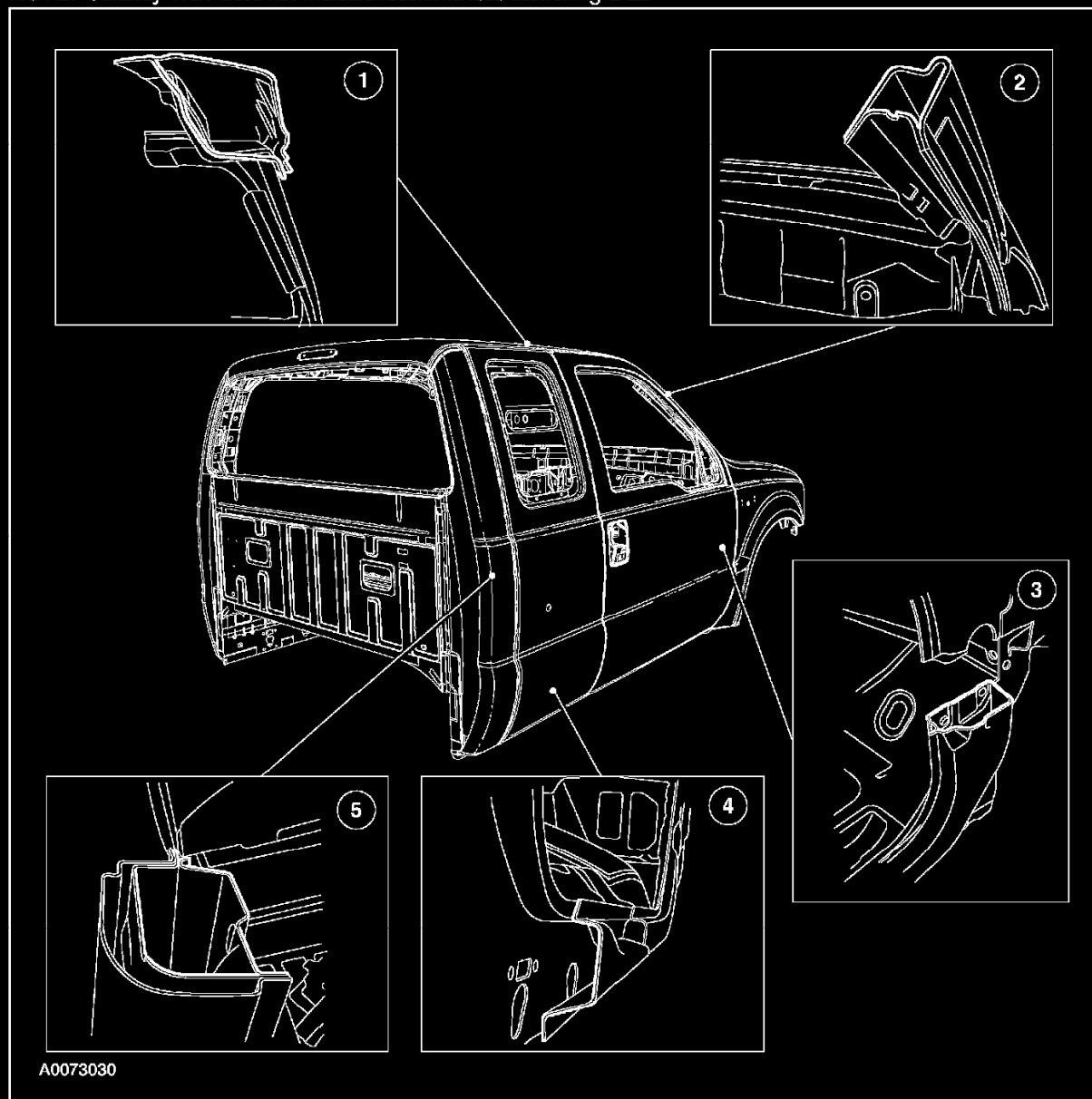
## Cutaway View — SuperCab

⚠ CAUTION: Do not heat high-strength steel to straighten.

NOTE: Install a new part if the part has sustained damage resulting in a kink or tear.

NOTE: Cutaway view is accurate in highlighted area. View is intended as a guideline only.

NOTE: Cutaway view does not indicate recommended sectioning area.



| Item | Description                                        |
|------|----------------------------------------------------|
| 1    | Roof rail reinforcement cutaway view               |
| 2    | Front body pillar upper reinforcement cutaway view |
| 3    | Front body pillar cutaway view                     |

| Item | Description                        |
|------|------------------------------------|
| 4    | Body rocker panel cutaway view     |
| 5    | Rear cab corner panel cutaway view |

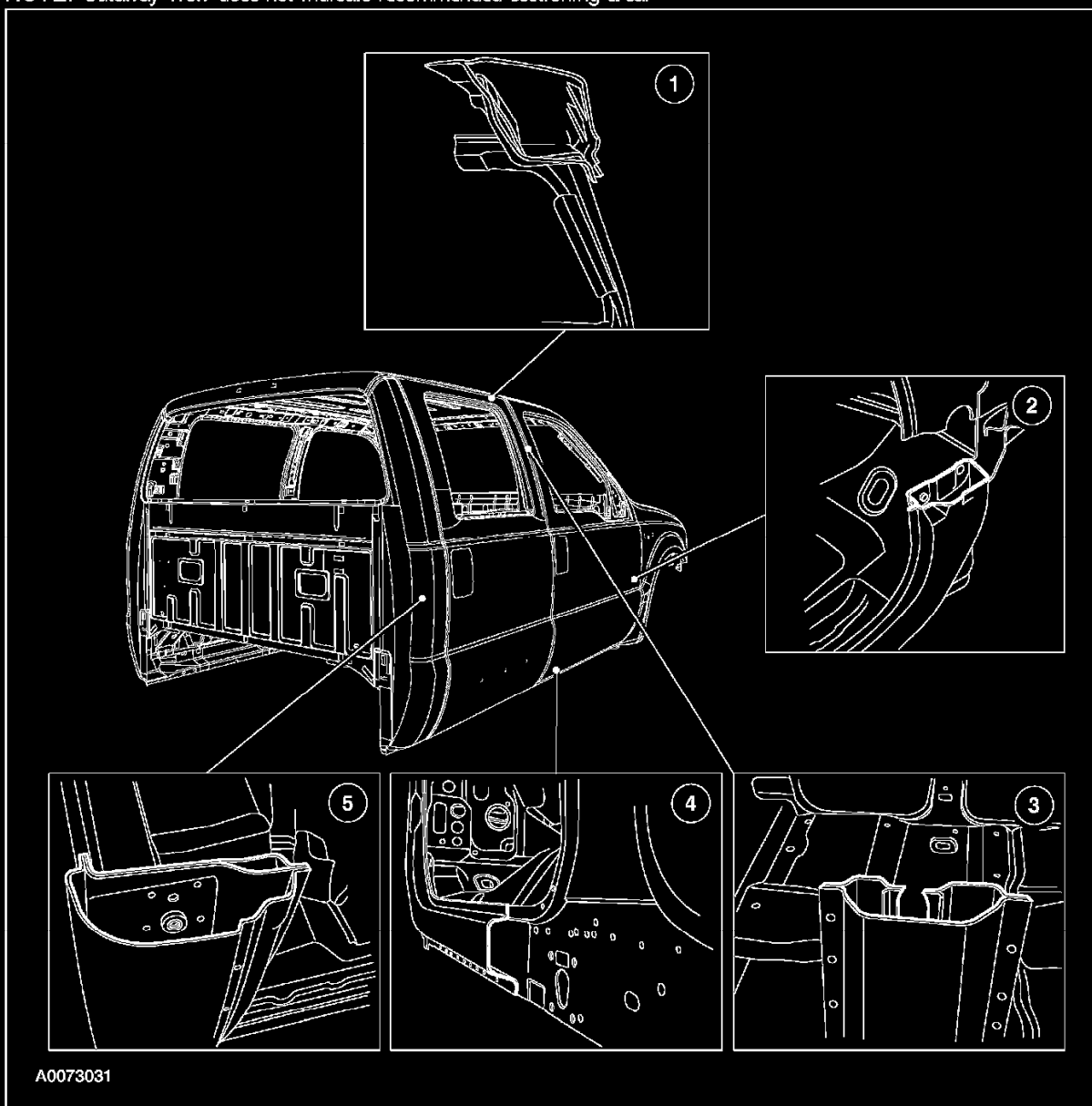
## Cutaway View — Crew Cab

⚠ CAUTION: Do not heat high-strength steel to straighten.

NOTE: Install a new part if the part has sustained damage resulting in a kink or tear.

NOTE: Cutaway view is accurate in highlighted area. View is intended as a guideline only.

NOTE: Cutaway view does not indicate recommended sectioning area.

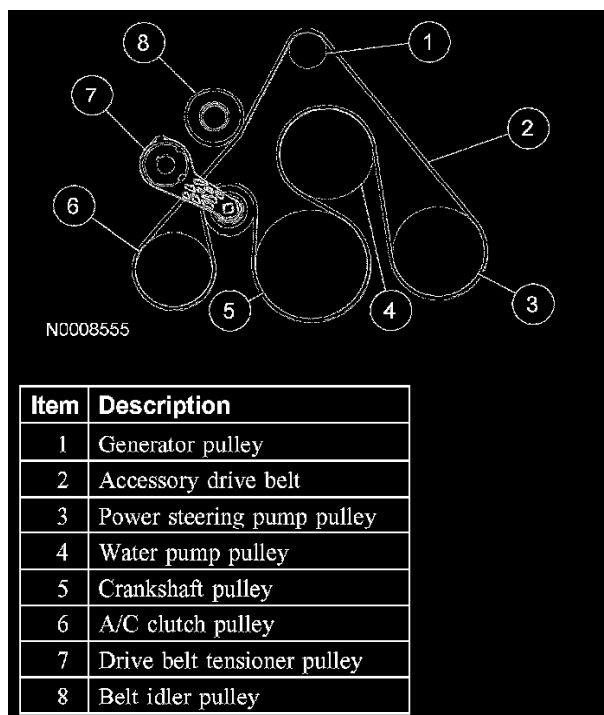


| Item | Description                          |
|------|--------------------------------------|
| 1    | Roof rail reinforcement cutaway view |
| 2    | Front body pillar cutaway view       |
| 3    | Center body pillar cutaway view      |

| Item | Description                        |
|------|------------------------------------|
| 4    | Body rocker panel cutaway view     |
| 5    | Rear cab corner panel cutaway view |

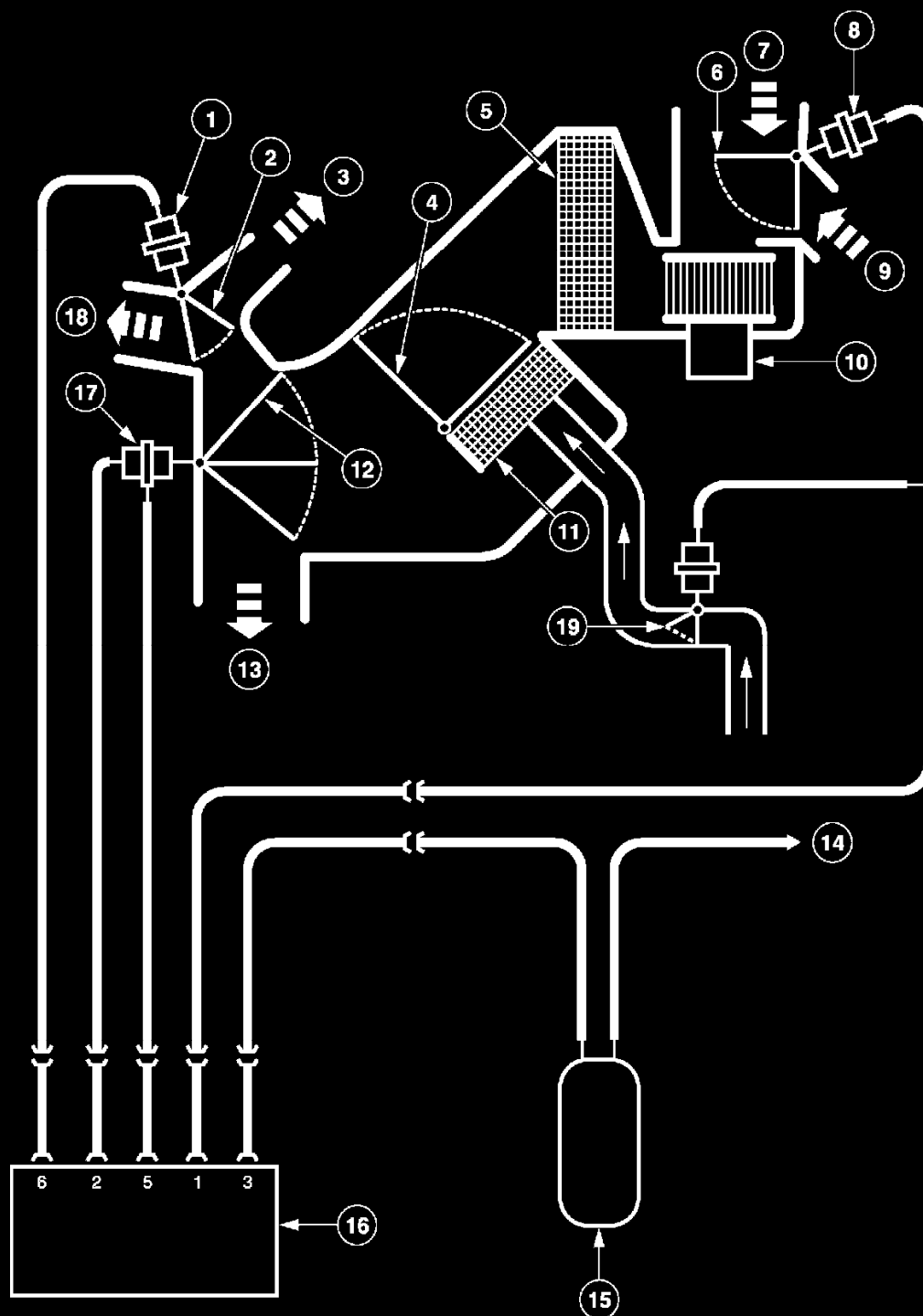
## Cutaway View - Crew Cab

## Drive Belt



Accessory Drive-5.4L, 6.8L, with A/C

## Vacuum Schematic—Manual A/C



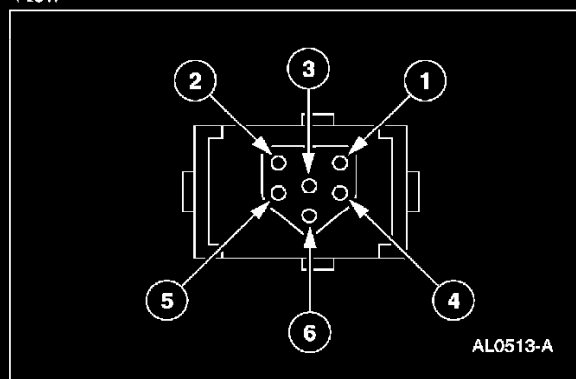
A0040237

Vacuum Schematic - Manual A/C (Part 1)

| Item | Description                                 |
|------|---------------------------------------------|
| 1    | Vacuum Control Motor — Panel/Defrost Door   |
| 2    | Panel/Defrost Door (Full Vacuum Position)   |
| 3    | Defrost Air Flow                            |
| 4    | Temperature Blend Door (Full Heat Position) |
| 5    | A/C Evaporator Core                         |
| 6    | Air Inlet Duct Door (Full Vacuum Position)  |
| 7    | Outside Air Inlet                           |
| 8    | Vacuum Control Motor — Air Inlet Door       |
| 9    | Recirculated Air Inlet                      |
| 10   | Blower Motor                                |
| 11   | Heater Core                                 |
| 12   | Panel/Floor Door (Full Vacuum Position)     |
| 13   | Floor Air Flow                              |
| 14   | Vacuum Source                               |
| 15   | A/C Vacuum Reservoir Tank and Bracket       |
| 16   | A/C-Heater Function Selector Switch         |
| 17   | Vacuum Control Motor — Panel/Floor Door     |
| 18   | Panel Vent Air Flow                         |
| 19   | Heater Control Valve                        |

### Vacuum Schematic - Manual A/C (Part 2)

**Function Selector Switch Vacuum Connector End View**



| Port | Hose Color | Function           |
|------|------------|--------------------|
| 1    | White      | Air Inlet Door     |
| 2    | Yellow     | Panel/Floor Door   |
| 3    | Black      | Vacuum Source      |
| 4    | —          | Not Used           |
| 5    | Blue       | Panel/Floor Door   |
| 6    | Red        | Panel/Defrost Door |

**Function Selector Switch Vacuum Connector End View**



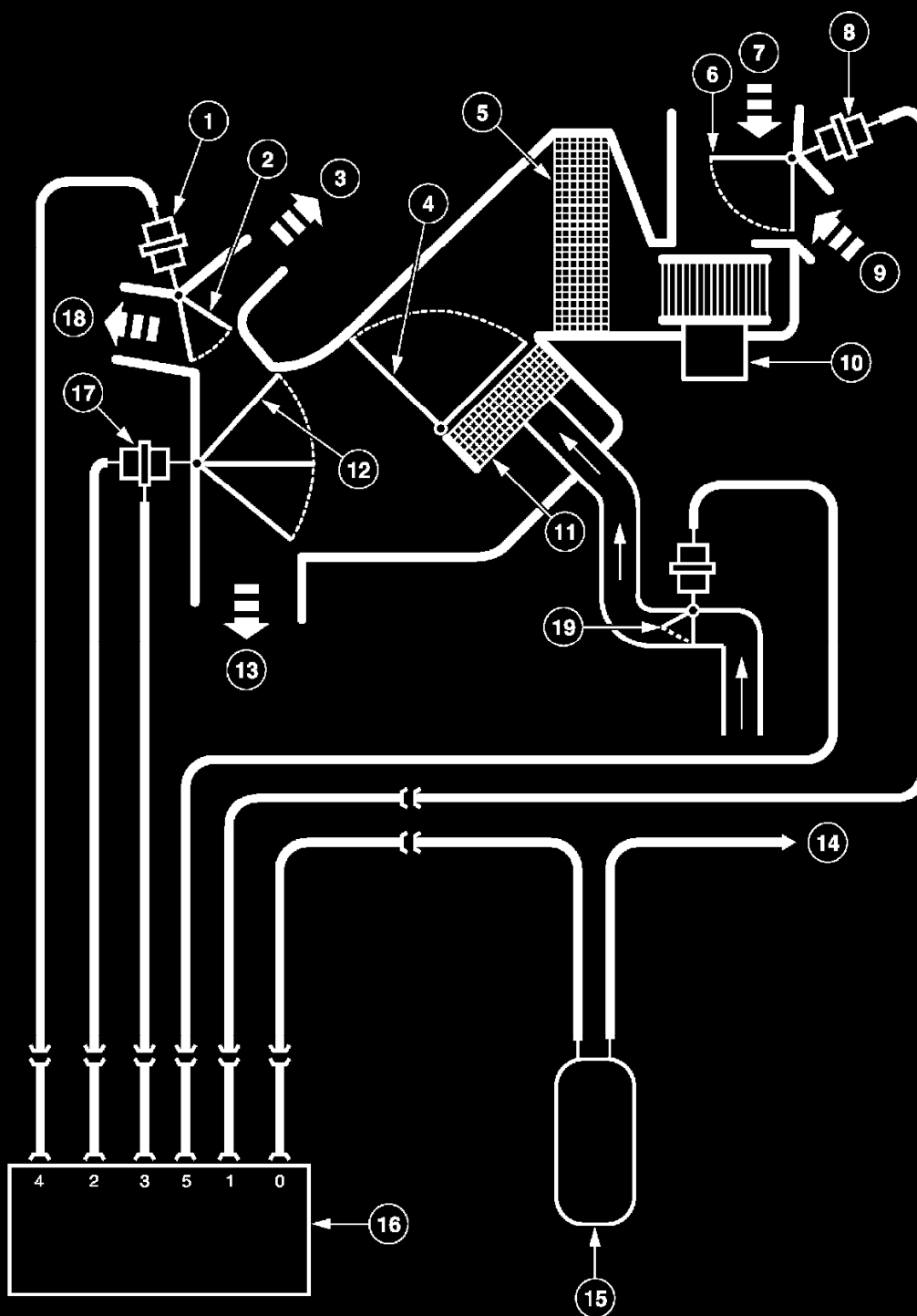
**Vacuum Application Chart — Manual A/C**

| Switch Port | Color  | Function                               | Function Selector Switch Position |     |       |     |          |       |          |     |
|-------------|--------|----------------------------------------|-----------------------------------|-----|-------|-----|----------|-------|----------|-----|
|             |        |                                        | MAX A/C                           | A/C | PANEL | OFF | PNL/ FLR | FLOOR | FLR/ DEF | DEF |
| 1           | White  | Recirc/ Fresh and Heater Control Valve | V                                 | NV  | NV    | V   | NV       | NV    | NV       | NV  |
| 2           | Yellow | Panel/ Floor                           | NV                                | NV  | NV    | V   | NV       | V     | NV       | NV  |
| 3           | Black  | Vacuum Source                          | V                                 | V   | V     | V   | V        | V     | V        | V   |
| 5           | Blue   | Panel/ Floor                           | NV                                | NV  | NV    | V   | V        | V     | V        | NV  |
| 6           | Red    | Panel/ Defrost                         | V                                 | V   | V     | NV  | V        | NV    | NV       | NV  |

- V = Vacuum
- NV= No Vacuum

**Vacuum Application Chart - Manual A/C**

## Vacuum Schematic—EATC

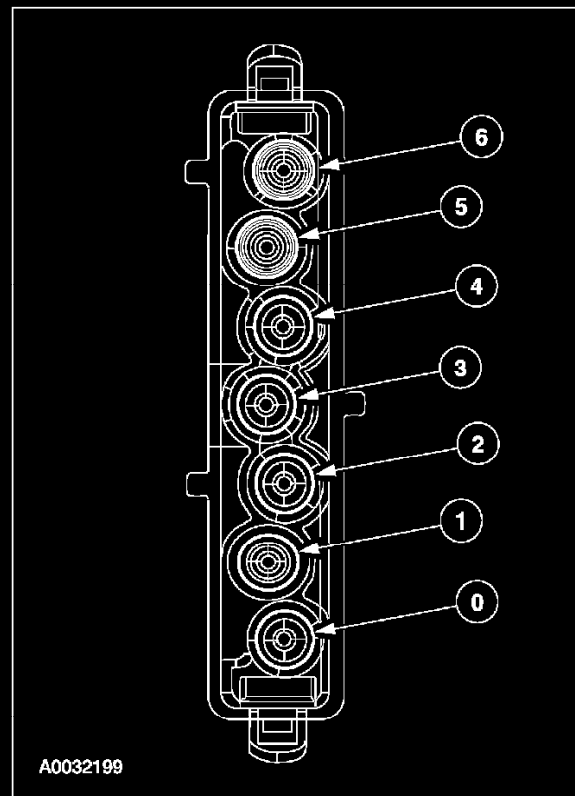


A0040238

Vacuum Schematic - EATC (Part 1)

| Item | Description                                 |
|------|---------------------------------------------|
| 1    | Vacuum Control Motor — Panel/Defrost Door   |
| 2    | Panel/Defrost Door (Full Vacuum Position)   |
| 3    | Defrost Air Flow                            |
| 4    | Temperature Blend Door (Full Heat Position) |
| 5    | A/C Evaporator Core                         |
| 6    | Air Inlet Duct Door (Full Vacuum Position)  |
| 7    | Outside Air Inlet                           |
| 8    | Vacuum Control Motor — Air Inlet Duct Door  |
| 9    | Recirculated Air Inlet                      |
| 10   | Blower Motor                                |
| 11   | Heater Core                                 |
| 12   | Panel/Floor Door (Full Vacuum Position)     |
| 13   | Floor Air Flow                              |
| 14   | Vacuum Source                               |
| 15   | A/C Vacuum Reservoir Tank and Bracket       |
| 16   | ATC Solenoid and Manifold                   |
| 17   | Vacuum Control Motor — Floor/Panel Door     |
| 18   | Panel Vent Air Flow                         |
| 19   | Heater Control Valve                        |

**Vacuum Schematic - EATC (Part 2)**

**ATC Solenoid and Manifold Vacuum Connector End View**


| Port | Hose Color | Function             |
|------|------------|----------------------|
| 0    | Black      | Vacuum Source        |
| 1    | White      | Air Inlet Duct Door  |
| 2    | Yellow     | Panel/Floor Door     |
| 3    | Blue       | Panel/Floor Door     |
| 4    | Red        | Panel/Defrost Door   |
| 5    | Gray       | Heater Control Valve |
| 6    | —          | Not used             |

**ATC Solenoid And Manifold Vacuum Connector End View**
**Vacuum Application Chart — EATC**

| Port | Color | Function               | Manual Override Buttons |       |         |     |         |     |
|------|-------|------------------------|-------------------------|-------|---------|-----|---------|-----|
|      |       |                        | OFF                     | PANEL | PNL/FLR | FLR | FLR/DEF | DEF |
| 0    | Black | Vacuum Source          | V                       | V     | V       | V   | V       | V   |
| 1    | White | Air Inlet <sup>a</sup> | V                       | —     | —       | —   | —       | NV  |

**Vacuum Application Chart - EATC (Part 1)**

**Vacuum Application Chart — EATC (Continued)**

| Port | Color  | Function                                | Manual Override Buttons |       |         |     |         |     |
|------|--------|-----------------------------------------|-------------------------|-------|---------|-----|---------|-----|
|      |        |                                         | OFF                     | PANEL | PNL/FLR | FLR | FLR/DEF | DEF |
| 2    | Yellow | Panel/Floor                             | V                       | NV    | NV      | V   | NV      | NV  |
| 3    | Blue   | Panel/Floor                             | V                       | NV    | V       | V   | V       | NV  |
| 4    | Red    | Panel/<br>Defrost                       | NV                      | V     | V       | NV  | NV      | NV  |
| 5    | Gray   | Heater<br>Control<br>Valve <sup>b</sup> | V                       | —     | —       | —   | —       | —   |

a The EATC system may be manually set to enable or disable the recirculation of cabin air by pressing the RECIRCULATION manual override button in all manual override modes except DEFROST.

b The automatic temper control solenoid and manifold will supply vacuum and close the heater control valve depending on the EATC module settings and ambient conditions in any setting except OFF.

V = Vacuum

NV= No Vacuum

**Vacuum Application Chart - EATC (Part 2)****Component Location Index**

**PLEASE NOTE:** If a link on the Component Location Index to a View is not provided, that means that the Component and/or View in question does NOT apply to the vehicle model selected.

| Components                                                                                 | View 151-*/coordinates |
|--------------------------------------------------------------------------------------------|------------------------|
| <b>Location</b>                                                                            |                        |
| 4x4 High/Low indicator switch                                                              | 14 - D7                |
| on transfer case, top                                                                      |                        |
| A/C clutch field coil (19D798) - 6.0L Diesel engine, front, on A/C compressor              | 13 - E7                |
| A/C clutch field coil (19D798) - 6.8L engine, front, on A/C compressor                     | 10 - D1                |
| A/C clutch field coil (19D798) - 5.4L engine, front, on A/C compressor                     | 7 - D2                 |
| A/C clutch relay                                                                           |                        |
| in Battery Junction Box (BJB)                                                              | 1 - B8                 |
| A/C Compressor clutch diode                                                                |                        |
| under dash panel, LH side                                                                  | 15 - E4                |
| A/C compressor cycling switch (19E561) - Diesel engine compartment, RH side                | 3 - B1                 |
| A/C compressor cycling switch (19E561) engine compartment, RH side                         | 30 - C7                |
| A/C high pressure switch (19D594) - 5.4L engine, front, RH side                            | 7 - C2                 |
| A/C high pressure switch (19D594) - 6.8L engine, front, RH side                            | 10 - C1                |
| ABS control module (2C219) - Diesel engine compartment, LH side                            | 5 - A7                 |
| ABS control module (2C219) engine compartment, LH side                                     | 6 - A7                 |
| Accelerator pedal position sensor on accelerator pedal support                             | 16 - F4                |
| Accessory delay relay                                                                      |                        |
| in Central Junction Box (CJB)                                                              | 15 - E4                |
| Adjustable pedal motor (9G662) in LH front footwell                                        | 16 - E5                |
| Adjustable pedal switch                                                                    |                        |
| dash panel, LH side                                                                        | 16 - D8                |
| Air bag sliding contact (14A664) on steering column                                        | 17 - F7                |
| Air filter sensor - Diesel engine compartment, LH side, on air cleaner housing             | 3 - D7                 |
| Ambient air temperature sensor (19E702) engine compartment, front                          | 1 - E7                 |
| Auxiliary relay box 1                                                                      |                        |
| dash panel, center                                                                         | 16 - E4                |
| Auxiliary relay box 3                                                                      |                        |
| engine compartment, LH side, rear                                                          | 1 - A8                 |
| Barometric Absolute Pressure (BAP) sensor behind dash panel, LH side, near steering column | 17 - F4                |
| Battery (10655)                                                                            |                        |
| engine compartment, RH side                                                                | 1 - D2                 |
| Battery (10655) - Diesel engine compartment, RH side                                       | 3 - D2                 |
| Battery II - Diesel engine compartment, LH side                                            | 3 - D7                 |
| Battery Junction Box (BJB) (14A067) engine compartment, LH side, rear                      | 1 - B8                 |
| Battery saver relay                                                                        |                        |
| in Instrument Cluster (not serviceable)                                                    | 15 - B4                |
| Blower motor relay                                                                         |                        |
| in Battery Junction Box (BJB)                                                              | 1 - B8                 |
| Blower motor speed controller (19E624) engine compartment, RH side                         | 30 - D7                |
| Brake fluid level switch (2L414) - Diesel engine compartment, LH side                      | 5 - A5                 |
| Brake fluid level switch (2L414) engine compartment, LH side                               | 6 - A6                 |
| Brake pedal position switch (13480) on brake pedal support                                 | 16 - E7                |
| Brake pressure switch (2B264) - Diesel engine compartment, LH side, rear                   | 5 - E4                 |
| Brake pressure switch (2B264) engine compartment, LH side, rear                            | 6 - B4                 |
| Brake pressure transducer engine compartment, LH rear                                      | 16 - F5                |
| Brake shift interlock                                                                      |                        |
| on steering column                                                                         | 16 - B6                |
| Camshaft position sensor (6B288) - 6.8L engine, upper, on front of RH cylinder head        | 10 - C1                |
| Camshaft position sensor (6B288) - 6.0L Diesel engine, LH side, bottom                     | 12 - F4                |

| Components                                                                                  |         | View 151-*/coordinates                                                                 |         |
|---------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------|---------|
| Location                                                                                    |         |                                                                                        |         |
| Camshaft position sensor LH bank (6B288) - 5.4L engine, upper, on front of LH cylinder head | 7 - E7  | Coil On Plug (COP) 6 (12A366) - 6.8L engine, top, LH side                              | 10 - F7 |
| Camshaft position sensor RH bank (6B288) - 5.4L engine, upper, on front of RH cylinder head | 7 - C1  | Coil On Plug (COP) 6 (12A366) - 5.4L engine, top, LH side                              | 7 - E7  |
| Central Junction Box (CJB) (14A067) under dash panel, LH side                               | 16 - E8 | Coil On Plug (COP) 7 (12A366) - 5.4L engine, top, LH side                              | 7 - D7  |
| Charge Motion Control Valve (CMCV) - 5.4L engine, rear                                      | 8 - D3  | Coil On Plug (COP) 7 (12A366) - 6.8L engine, top, LH side                              | 10 - E7 |
| Cigar lighter (15055) dash panel, center, bottom                                            | 17 - D3 | Coil On Plug (COP) 8 (12A366) - 5.4L engine, top, LH side                              | 7 - C7  |
| Clutch pedal position switch on clutch pedal support                                        | 17 - D8 | Coil On Plug (COP) 8 (12A366) - 6.8L engine, top, LH side                              | 10 - E7 |
| Coil On Plug (COP) 1 (12A366) - 5.4L engine, top, RH side                                   | 8 - D7  | Coil On Plug (COP) 9 (12A366) - 6.8L engine, top, LH side                              | 10 - C6 |
| Coil On Plug (COP) 1 (12A366) - 6.8L engine, top, RH side                                   | 11 - D8 | Compass sensor module - roof, LH side, front overhead console                          | 28 - C1 |
| Coil On Plug (COP) 10 (12A366) - 6.8L engine, top, LH side                                  | 10 - C7 | Crankshaft position sensor (6C315) - 5.4L engine, front, behind crankshaft pulley      | 7 - E3  |
| Coil On Plug (COP) 2 (12A366) - 5.4L engine, top, RH side                                   | 8 - D7  | Crankshaft position sensor (6C315) - 6.0L Diesel engine, RH side, below glow plug bank | 13 - E6 |
| Coil On Plug (COP) 3 (12A366) - 5.4L engine, top, RH side                                   | 11 - D8 | Crankshaft position sensor (6C315) - 6.8L engine, front, behind crankshaft pulley      | 10 - E1 |
| Coil On Plug (COP) 3 (12A366) - 6.8L engine, top, RH side                                   | 8 - E7  | Cylinder head temperature sensor (6G004) - 5.4L engine, top, LH side                   | 8 - F4  |
| Coil On Plug (COP) 4 (12A366) - 5.4L engine, top, RH side                                   | 8 - E7  | Cylinder head temperature sensor (6G004) - 6.8L engine, top, LH side                   | 11 - B7 |
| Coil On Plug (COP) 4 (12A366) - 6.8L engine, top, RH side                                   | 11 - E8 | Data Link Connector (DLC) (14489) under dash panel, LH side                            | 17 - E5 |
| Coil On Plug (COP) 5 (12A366) - 5.4L engine, top, RH side                                   | 11 - E8 | Daytime Running Lamps (DRL) relay 1 in Battery Junction Box (BJB)                      | 1 - B8  |
| Coil On Plug (COP) 5 (12A366) - 6.8L engine, top, LH side                                   | 11 - E8 | Daytime Running Lamps (DRL) relay 2 in Battery Junction Box (BJB)                      | 1 - B8  |
| Coil On Plug (COP) 5 (12A366) - 6.8L engine, top, LH side                                   | 11 - E8 | Daytime Running Lamps (DRL) relay 3 in Battery Junction Box (BJB)                      | 1 - B8  |
| Coil On Plug (COP) 5 (12A366) - 5.4L engine, LH side                                        | 7 - E6  | Daytime running lamps resistor - Diesel engine compartment, front, LH side             | 3 - F5  |
| Coil On Plug (COP) 5 (12A366) - 5.4L engine, top, LH side                                   | 11 - E8 | Door ajar switch, driver side front (14018) in driver door                             | 22 - E2 |
| Coil On Plug (COP) 5 (12A366) - 6.8L engine, top, LH side                                   | 11 - E8 | Door ajar switch, driver side rear (14018) in LH rear door                             | 26 - C2 |

| Components                                                     |                        |
|----------------------------------------------------------------|------------------------|
| Location                                                       | View 151-*/coordinates |
| Door ajar switch, passenger side front (14018)                 |                        |
| in passenger door . . . . .                                    | 23 - C7                |
| Door ajar switch, passenger side rear (14018)                  |                        |
| in RH rear door . . . . .                                      | 27 - E7                |
| Door lock actuator, left front (218A42)                        |                        |
| in driver door . . . . .                                       | 22 - B2                |
| Door lock actuator, left rear (218A43)                         |                        |
| in LH rear door . . . . .                                      | 26 - E2                |
| Door lock actuator, passenger side (218A42)                    |                        |
| in passenger door . . . . .                                    | 23 - D7                |
| Door lock actuator, right rear (218A42)                        |                        |
| in RH rear door . . . . .                                      | 27 - D7                |
| Door lock relay                                                |                        |
| in Vehicle Security Module (VSM) (not serviceable)             | 28 - C1                |
| Door lock switch, driver side (14963)                          |                        |
| in driver door, top . . . . .                                  | 22 - A3                |
| Door lock switch, passenger side (14028)                       |                        |
| in passenger door, top of door trim . . . . .                  | 23 - A4                |
| Driver air bag unit (78043B13)                                 |                        |
| on steering column . . . . .                                   | 14 - C3                |
| Driver door unlock relay                                       |                        |
| in Vehicle Security Module (VSM) (not serviceable)             | 28 - C1                |
| Dual knock sensor - 6.8L                                       |                        |
| engine, RH side, rear . . . . .                                | 11 - F3                |
| Dual pressure switch (19D594) - 6.0L Diesel                    |                        |
| engine, front, near bottom . . . . .                           | 13 - E7                |
| EGR temperature sensor - 6.0L Diesel                           |                        |
| engine, top, RH side, front . . . . .                          | 13 - B6                |
| EGR valve actuator - 6.0L Diesel                               |                        |
| engine, top, near throttle body . . . . .                      | 13 - A6                |
| Electrochromatic inside mirror unit (17700)                    |                        |
| roof, front, center . . . . .                                  | 28 - B1                |
| Electronic Automatic Temperature Control (EATC) module (19980) |                        |
| dash panel, center . . . . .                                   | 16 - E3                |
| Electronic Automatic Temperature Control (EATC) module (19980) |                        |
| dash panel, center . . . . .                                   | 16 - A5                |
| Electronic fan clutch - 6.0L Diesel                            |                        |
| engine, top, front . . . . .                                   | 12 - E2                |
| Electronic Shift On the Fly (ESOF) solenoid                    |                        |
| engine compartment, RH side . . . . .                          | 1 - C2                 |
| Electronic Shift On the Fly (ESOF) solenoid - Diesel           |                        |
| engine compartment, RH side . . . . .                          | 3 - C1                 |
| Electronic Shift On the Fly (ESOF) solenoid                    |                        |
| engine compartment, RH side, rear . . . . .                    | 30 - C1                |
| Electronic Throttle Control (ETC) motor (9F991) - 6.0L Diesel  |                        |
| engine, attached to throttle body . . . . .                    | 13 - B7                |
| Electronic Throttle Control (ETC) motor (9F991) - 6.8L         |                        |
| engine, attached to throttle body . . . . .                    | 10 - A5                |
| Electronic Throttle Control (ETC) motor (9F991) - 5.4L         |                        |
| engine, attached to throttle body . . . . .                    | 8 - C2                 |
| Engine compartment lamp                                        |                        |
| engine compartment . . . . .                                   | 6 - A7                 |
| Engine compartment lamp - Diesel                               |                        |
| engine compartment . . . . .                                   | 5 - A6                 |
| Engine Coolant Temperature (ECT) sensor (12A648) - 6.0L Diesel |                        |
| engine, front, LH side, near thermostat housing . . . . .      | 12 - E2                |
| Engine Oil Temperature (EOT) sensor - 5.4L                     |                        |
| engine, top on oil reservoir . . . . .                         | 8 - F5                 |
| Engine Oil Temperature (EOT) sensor - 6.0L Diesel              |                        |
| engine, top on oil reservoir . . . . .                         | 13 - C7                |
| EVAP canister vent control solenoid                            |                        |
| vehicle underbody, LH side, by axle . . . . .                  | 31 - B4                |
| Exhaust Back Pressure (EBP) sensor - 6.0L Diesel               |                        |
| engine, near camshaft pulley, LH side . . . . .                | 12 - F3                |
| Exterior rear view mirror switch (17B676)                      |                        |
| in driver door . . . . .                                       | 22 - C7                |
| Exterior rear view mirror, driver side (17682)                 |                        |
| driver's door (exterior) . . . . .                             | 22 - B7                |
| Exterior rear view mirror, passenger side (17683)              |                        |
| front of passenger door exterior . . . . .                     | 23 - B2                |
| F1.1 in Battery Junction Box (B1B)                             |                        |
| . . . . .                                                      | 1 - B8                 |



| Components                          |               | View 151-*/coordinates               |               |
|-------------------------------------|---------------|--------------------------------------|---------------|
| Location                            |               |                                      |               |
| F1.2 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.15 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.3 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.16 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.4 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.17 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.5 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.18 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.6 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.19 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.7 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.20 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.8 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.21 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.9 in Battery Junction Box (B1B)  | ..... 1 - B8  | F2.22 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.10 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.23 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.11 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.24 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.12 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.25 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.13 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.26 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.14 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.27 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.15 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.28 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.16 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.29 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.17 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.30 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.18 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.31 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.19 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.32 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.20 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.33 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.21 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.34 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.22 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.35 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F1.23 in Battery Junction Box (B1B) | ..... 1 - B8  | F2.36 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.1 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.37 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.2 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.38 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.3 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.39 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.4 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.40 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.5 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.41 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.6 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.42 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.7 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.43 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.8 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.44 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.9 in Central Junction Box (C1B)  | ..... 16 - E8 | F2.45 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.10 in Central Junction Box (C1B) | ..... 16 - E8 | F2.46 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.11 in Central Junction Box (C1B) | ..... 16 - E8 | F2.47 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.12 in Central Junction Box (C1B) | ..... 16 - E8 | F2.48 in Central Junction Box (C1B)  | ..... 16 - E8 |
| F2.13 in Central Junction Box (C1B) | ..... 16 - E8 | F2.101 in Central Junction Box (C1B) | ..... 16 - E8 |
| F2.14 in Central Junction Box (C1B) | ..... 16 - E8 | F2.102 in Central Junction Box (C1B) | ..... 16 - E8 |
|                                     |               | F2.103 in Central Junction Box (C1B) | ..... 16 - E8 |
|                                     |               | F2.104 in Central Junction Box (C1B) | ..... 16 - E8 |
|                                     |               | F2.105 in Central Junction Box (C1B) | ..... 16 - E8 |
|                                     |               | F2.106 in Central Junction Box (C1B) | ..... 16 - E8 |

**Components****Location****View 151-\*/coordinates**

|                                                 |                               |         |
|-------------------------------------------------|-------------------------------|---------|
| F2.107                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.108                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.109                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.110                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.111                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.112                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.113                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.114                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.115                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.116                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.601                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.602                                          | in Central Junction Box (CJB) | 16 - E8 |
| F2.701                                          | in Upfitter Relay Box         | 16 - E3 |
| Fog lamp relay                                  |                               |         |
| in Central Junction Box (CJB) (not serviceable) |                               | 16 - E8 |
| Fog lamp, left front (15200) - Diesel           |                               |         |
| front of vehicle, (exterior), LH side           |                               | 3 - F5  |
| Fog lamp, right front (15200) - Diesel          |                               |         |
| front of vehicle, (exterior), RH side           |                               | 3 - F3  |
| Four-wheel drive control module (14B466)        |                               |         |
| under dash panel, RH side                       |                               | 16 - F3 |
| Four-wheel drive switch                         |                               |         |
| dash panel, LH side                             |                               | 16 - A7 |
| Fuel heater                                     |                               |         |
| vehicle underbody, LH side, near transmission   |                               | 32 - B1 |
| Fuel heater relay                               |                               |         |
| in Battery Junction Box (BJB)                   |                               | 1 - B8  |
| Fuel injector 1 (9F593) - 5.4L                  |                               |         |
| engine, top, RH side                            |                               | 7 - A2  |
| Fuel injector 1 (9F593) - 5.4L                  |                               |         |
| engine, top, RH side                            |                               | 8 - B7  |
| Fuel injector 1 (9F593) - 6.0L Diesel           |                               |         |
| engine, top, RH side                            |                               | 12 - C2 |
| Fuel injector 1 (9F593) - 6.8L                  |                               |         |
| engine, top, RH side                            |                               | 11 - B7 |

|                                       |  |         |
|---------------------------------------|--|---------|
| Fuel injector 10 (9F593) - 6.8L       |  |         |
| engine, top, LH side                  |  | 10 - B7 |
| Fuel injector 2 (9F593) - 6.8L        |  |         |
| engine, top, RH side                  |  | 11 - A5 |
| Fuel injector 2 (9F593) - 5.4L        |  |         |
| engine, top, RH side                  |  | 8 - B7  |
| Fuel injector 2 (9F593) - 6.0L Diesel |  |         |
| engine, top, LH side                  |  | 13 - A4 |
| Fuel injector 3 (9F593) - 6.0L Diesel |  |         |
| engine, top, RH side                  |  | 13 - F3 |
| Fuel injector 3 (9F593) - 5.4L        |  |         |
| engine, top, RH side                  |  | 8 - B7  |
| Fuel injector 3 (9F593) - 6.8L        |  |         |
| engine, top, RH side                  |  | 11 - A4 |
| Fuel injector 4 (9F593) - 5.4L        |  |         |
| engine, top, RH side                  |  | 8 - A7  |
| Fuel injector 4 (9F593) - 6.0L Diesel |  |         |
| engine, top, LH side                  |  | 12 - D7 |
| Fuel injector 4 (9F593) - 6.8L        |  |         |
| engine, top, RH side                  |  | 11 - A4 |
| Fuel injector 5 (9F593) - 5.4L        |  |         |
| engine, top, LH side                  |  | 7 - A5  |
| Fuel injector 5 (9F593) - 6.0L Diesel |  |         |
| engine, top, RH side                  |  | 13 - F2 |
| Fuel injector 5 (9F593) - 6.8L        |  |         |
| engine, top, RH side                  |  | 11 - A3 |
| Fuel injector 6 (9F593) - 5.4L        |  |         |
| engine, top, LH side                  |  | 7 - A5  |
| Fuel injector 6 (9F593) - 6.0L Diesel |  |         |
| engine, top, LH side                  |  | 12 - B7 |
| Fuel injector 6 (9F593) - 6.8L        |  |         |
| engine, top, LH side                  |  | 10 - B3 |
| Fuel injector 7 (9F593) - 5.4L        |  |         |
| engine, top, LH side                  |  | 7 - B6  |
| Fuel injector 7 (9F593) - 6.0L Diesel |  |         |
| engine, top, RH side                  |  | 13 - E2 |
| Fuel injector 7 (9F593) - 6.8L        |  |         |
| engine, top, LH side                  |  | 10 - B3 |
| Fuel injector 8 (9F593) - 5.4L        |  |         |
| engine, top, LH side                  |  | 7 - B6  |

| Components                                                                |       | View 151-*/coordinates |                                                                                       |       |         |
|---------------------------------------------------------------------------|-------|------------------------|---------------------------------------------------------------------------------------|-------|---------|
| Location                                                                  |       |                        |                                                                                       |       |         |
| Fuel injector 8 (9F593) - 6.0L Diesel engine, top, LH side                | ..... | 13 - D1                | Generator - 6.0L Diesel engine, upper, front                                          | ..... | 12 - A5 |
| Fuel injector 8 (9F593) - 6.8L engine, top, LH side                       | ..... | 10 - A7                | Generator                                                                             |       |         |
| Fuel injector 9 (9F593) - 6.8L engine, top, LH side                       | ..... | 10 - B7                | Generator, RH side, top                                                               | ..... | 33 - B1 |
| Fuel Injector Control Module (FICM) - 6.0L Diesel engine, top, LH side    | ..... | 12 - B8                | Generator, secondary engine, lower, front, RH side                                    | ..... | 33 - D3 |
| Fuel Injector Control Module (FICM) power relay - Diesel                  |       |                        | Generator, secondary engine, lower, front, RH side                                    | ..... | 33 - E3 |
| in Battery Junction Box (BJB)                                             | ..... | 3 - B7                 | Glow plug bank, left - 6.0L Diesel engine, front, LH side                             | ..... | 12 - F8 |
| Fuel pump vehicle underbody, LH side, near transmission                   | ..... | 32 - A1                | Glow plug bank, right - 6.0L Diesel engine, front, RH side                            | ..... | 13 - D7 |
| Fuel pump driver module vehicle underbody, LH side                        | ..... | 31 - D7                | Glow plug control module (GPCM) - 6.0L Diesel engine, top, front, on RH valve cover   | ..... | 13 - C7 |
| Fuel pump relay in Central Junction Box (CJB) (not serviceable)           | ..... | 16 - E8                | Headlamp relay                                                                        |       |         |
| Fuel sender, primary vehicle underbody, on fuel tank                      | ..... | 31 - B4                | in Vehicle Security Module (VSM) (not serviceable)                                    | ..... | 28 - C1 |
| Fuel sender, secondary vehicle underbody, on fuel tank                    | ..... | 31 - C7                | Headlamp, left (13008) front of vehicle, LH side                                      | ..... | 1 - D7  |
| Fuel tank pressure transducer (9C052) vehicle underbody, LH side, by axle | ..... | 31 - D5                | Headlamp, right (13008) front of vehicle, RH side                                     | ..... | 1 - F3  |
| Fuel tank selector switch (9A050) behind dash panel, center               | ..... | 16 - D3                | Heated Oxygen Sensor (HO2S) #11 (9F472) - 5.4L engine, rear, RH side                  | ..... | 8 - E3  |
| Fuel tank selector valve vehicle underbody, LH frame rail                 | ..... | 31 - C2                | Heated Oxygen Sensor (HO2S) #11 (9F472) - 6.8L engine, rear, RH side                  | ..... | 11 - F3 |
| Fuel tank unit vehicle underbody, LH side, by axle                        | ..... | 31 - D6                | Heated Oxygen Sensor (HO2S) #12 (9G444) vehicle underbody, RH side, near transmission | ..... | 31 - E5 |
| Fuel tank unit (9H307) vehicle underbody, LH side                         | ..... | 31 - A3                | Heated Oxygen Sensor (HO2S) #12 (9G444) vehicle underbody, RH side, near transmission | ..... | 14 - B5 |
| Function selector switch assembly in dash panel                           | ..... | 15 - E6                | Heated Oxygen Sensor (HO2S) #13 (9G444) vehicle underbody, RH side, near transmission | ..... | 31 - E6 |
| Generator - 6.0L Diesel engine, RH side, top                              | ..... | 12 - A3                | Heated Oxygen Sensor (HO2S) #21 (9F472) - 5.4L engine, rear, LH side                  | ..... | 8 - E2  |
|                                                                           |       |                        | Heated Oxygen Sensor (HO2S) #21 (9F472) - 6.8L engine, rear, LH side                  | ..... | 11 - F2 |
|                                                                           |       |                        | Heated Oxygen Sensor (HO2S) #21 (9F472) - 6.8L engine, rear, LH side                  | ..... | 10 - D7 |
|                                                                           |       |                        | Heated Oxygen Sensor (HO2S) #22 (9G444) vehicle underbody, LH side, near transmission | ..... | 14 - E3 |

**Components****Location****View 151-\*/coordinates**

|                                                                   |         |
|-------------------------------------------------------------------|---------|
| <b>Heated Positive Crankcase Ventilation (PCV) element - 5.4L</b> |         |
| engine, top, LH side                                              | 7 - E7  |
| Heated seat relay, driver side front                              |         |
| under driver seat                                                 | 20 - C2 |
| Heater blower motor (19805)                                       |         |
| engine compartment, RH side, rear                                 | 30 - B1 |
| Heater blower motor resistor (19A706)                             |         |
| engine compartment, RH side, rear                                 | 30 - D7 |
| High mounted stoplamp (13A613)                                    |         |
| in roof panel, rear center                                        | 28 - A5 |
| High mounted stoplamp (13A613)                                    |         |
| in roof panel, rear center                                        | 29 - A3 |
| Horn (13832)                                                      |         |
| engine compartment, front, RH side                                | 1 - D1  |
| Horn relay                                                        |         |
| in Central Junction Box (CJB) (not serviceable)                   | 16 - E8 |
| HTD mirror relay                                                  |         |
| in Central Junction Box (CJB) (not serviceable)                   | 16 - E8 |
| Ignition switch (11572)                                           |         |
| on steering column                                                | 16 - E5 |
| Ignition transformer capacitor 1 (18801) - 5.4L                   |         |
| engine, top                                                       | 8 - B7  |
| Ignition transformer capacitor 1 (18801) - 6.8L                   |         |
| engine, top                                                       | 10 - B1 |
| Ignition transformer capacitor 2 (18801) - 5.4L                   |         |
| engine, top                                                       | 7 - B3  |
| Ignition transformer capacitor 2 (18801) - 6.8L                   |         |
| engine, top, on front of LH valve cover                           | 10 - F3 |
| Indicator flasher relay (13350)                                   |         |
| behind dash panel, center, in auxiliary relay box 1               | 16 - E4 |
| Inertia Fuel Shutoff (IFS) switch (9D362)                         |         |
| under dash panel, RH side                                         | 16 - D1 |
| Injection Control Pressure (ICP) sensor - 6.0L Diesel             | 12 - A7 |
| engine, top, rear                                                 |         |
| Injection Pressure Regulator (IPR) - 6.0L Diesel                  |         |
| engine, top, on oil pump                                          | 13 - E1 |
| Injector Pressure Sensor (IPS) - 5.4L                             |         |
| engine, RH side                                                   | 8 - A2  |
| Injector Pressure Sensor (IPS) - 6.8L                             |         |
| engine, RH side                                                   | 10 - A6 |
| Instrument cluster (10849)                                        |         |
| dash panel, LH side                                               | 15 - A4 |
| Instrument cluster (10849)                                        |         |
| dash panel, LH side                                               | 16 - B7 |
| Intake Air Temperature (IAT) sensor - Diesel                      |         |
| engine compartment, in intake system                              | 3 - B4  |
| Intake Manifold Tuning Valve (IMTV) - 6.8L                        |         |
| front of engine, top, center                                      | 11 - B6 |
| Interior lamps relay                                              |         |
| in Instrument Cluster (not serviceable)                           | 15 - B4 |
| Interior/map lamps assembly, front                                |         |
| in roof panel, front, center                                      | 28 - A4 |
| Interior/map lamps assembly, rear                                 |         |
| in roof panel, above rear seats                                   | 28 - B6 |
| In-vehicle temperature sensor (19C734)                            |         |
| behind dash panel, LH side, near steering column                  | 16 - E7 |
| Key pad switch assembly                                           |         |
| in driver door                                                    | 22 - B2 |
| Key warning switch (11A127)                                       |         |
| on steering column                                                | 17 - F7 |
| Knock sensor #1 (12A699) - 5.4L                                   |         |
| engine, rear, LH cylinder head                                    | 8 - B6  |
| Knock sensor #2 (12A699) - 5.4L                                   |         |
| engine, rear, RH cylinder head                                    | 8 - D1  |
| License plate lamp, left (13550)                                  |         |
| vehicle rear end                                                  | 29 - B2 |
| License plate lamp, right (13550)                                 |         |
| vehicle rear end                                                  | 29 - B2 |
| Main light switch (11654)                                         |         |
| dash panel, LH side, near steering column                         | 16 - C8 |
| Main light switch (11654)                                         |         |
| dash panel, LH side, near steering column                         | 15 - A2 |
| Manifold Absolute Pressure (MAP) sensor - Diesel                  | 3 - A3  |
| engine compartment, rear                                          |         |

**Components****Location****View 151-\*/coordinates**

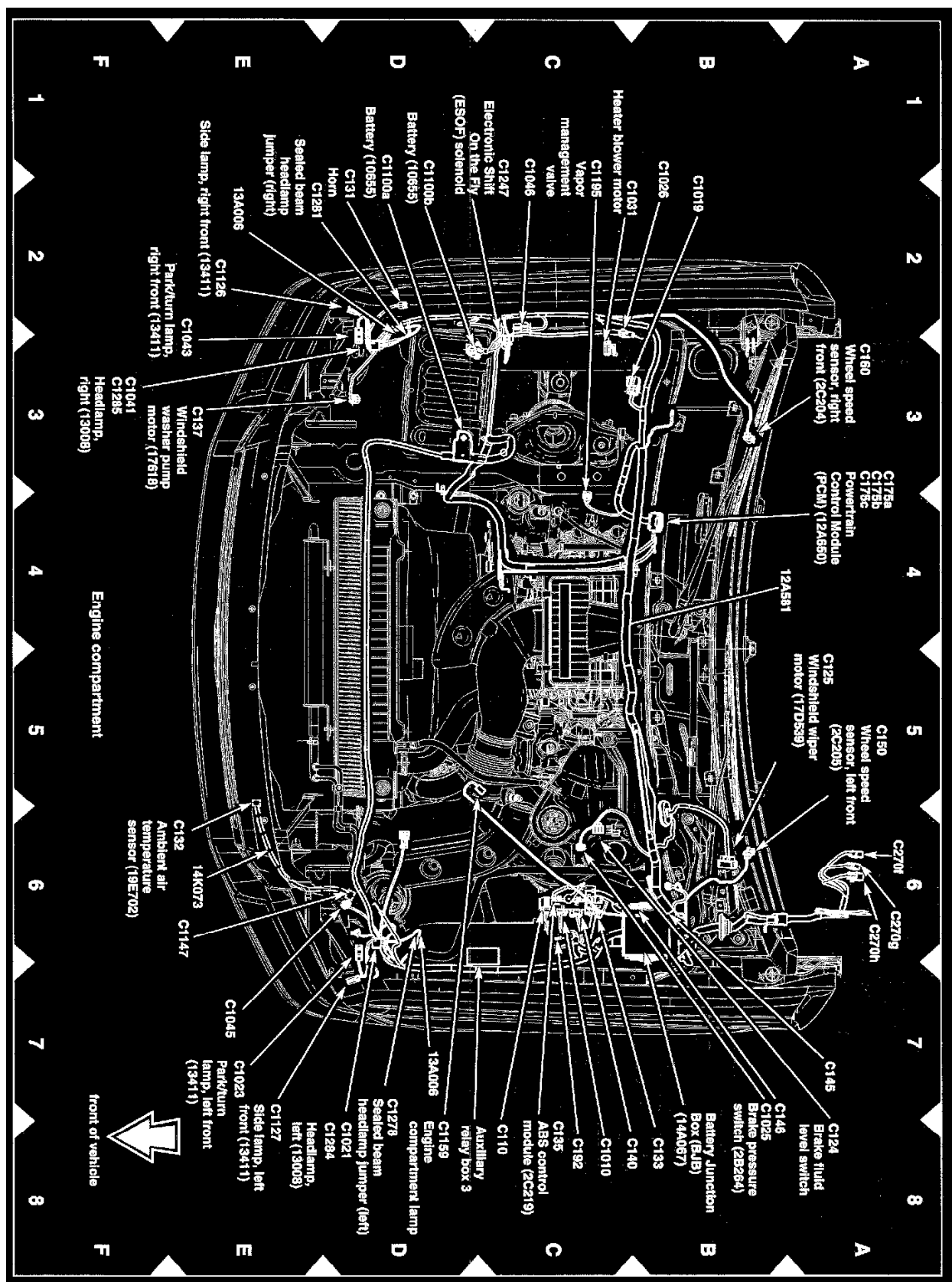
|                                                                                  |         |                                                                |         |
|----------------------------------------------------------------------------------|---------|----------------------------------------------------------------|---------|
| Manifold Absolute Pressure (MAP) sensor                                          |         | Park/turn lamp, right front (13411)                            |         |
| engine compartment, rear                                                         | 30 - B7 | front of vehicle, RH side                                      | 1 - F2  |
| Manifold Air Temperature (MAT) sensor - 6.0L Diesel engine, LH side              | 12 - A6 | Parking aid disable switch (15A860)                            | 16 - B5 |
| Mass Air Flow (MAF) sensor (13480)                                               |         | dash panel, LH side                                            | 16 - B5 |
| engine compartment, in intake system                                             | 1 - A4  | Parking Aid Module (PAM) (15T850)                              |         |
| Mass Air Flow (MAF) sensor (13480) - Diesel engine compartment, in intake system | 3 - F4  | RH A-pillar, behind trim panel                                 | 16 - E2 |
| Master window adjust switch (14340)                                              |         | Parking aid sensor, inner left (15K859)                        | 29 - F2 |
| in driver door, top                                                              | 22 - A6 | rear bumper, LH side                                           |         |
| Message center module switch                                                     |         | Parking aid sensor, inner right (15K859)                       | 29 - E3 |
| in dash panel, center                                                            | 16 - B7 | rear bumper, RH side                                           |         |
| Multifunction switch                                                             |         | Parking aid sensor, outer left (15K859)                        | 31 - B7 |
| on steering column                                                               | 18 - D7 | rear bumper, LH side                                           | 29 - E1 |
| Multifunction switch                                                             |         | Parking aid sensor, outer right (15K859)                       | 31 - A5 |
| on steering column                                                               | 18 - B5 | rear bumper, RH side                                           |         |
| Multi-function switch                                                            |         | Parking aid sensor, outer right (15K859)                       | 29 - E4 |
| on steering column                                                               | 16 - B8 | rear bumper, RH side                                           |         |
| Oil pressure switch (9278) - 5.4L engine, LH side, lower                         | 7 - F6  | Parking aid speaker                                            |         |
| Oil pressure switch (9278) - 6.0L Diesel engine, LH side, lower                  | 13 - B7 | RH A-pillar, behind trim panel                                 | 16 - F2 |
| Oil pressure switch (9278) - 6.8L engine, LH side, lower                         | 10 - F4 | Parking brake switch (15A851)                                  |         |
| Output Shaft Speed (OSS) sensor (7H103) transmission, rear                       | 14 - C6 | in footwell, driver side                                       | 28 - F2 |
| Overhead console                                                                 |         | Passenger Air bag Deactivation (PAD) switch                    | 15 - B6 |
| in roof panel, front                                                             | 28 - A3 | dash panel, center                                             | 16 - A4 |
| Park lamp relay                                                                  |         | Passenger Air bag Deactivation (PAD) switch - Instrument Panel |         |
| in Vehicle Security Module (VSM) (not serviceable)                               | 28 - C1 | dash panel, center                                             | 16 - A4 |
| Park/stop/turn lamp, left rear vehicle rear end, LH side                         | 29 - A1 | Passenger air bag module (15044A74)                            |         |
| Park/stop/turn lamp, right rear vehicle rear end, RH side                        | 29 - B3 | dash panel, RH side                                            | 16 - A2 |
| Park/turn lamp, left front (13411)                                               | 1 - E7  | PCM power diode                                                |         |
| front of vehicle, LH side                                                        |         | in Central Junction Box (CJB) (not serviceable)                | 16 - E8 |
|                                                                                  |         | PCM power relay                                                |         |
|                                                                                  |         | in Central Junction Box (CJB)                                  | 16 - E8 |
|                                                                                  |         | Power point, instrument panel (19N236)                         | 16 - A3 |
|                                                                                  |         | dash panel, center, bottom                                     |         |
|                                                                                  |         | Power seat motor assembly, left                                | 20 - F5 |
|                                                                                  |         | under driver seat                                              |         |
|                                                                                  |         | Power seat motor assembly, right                               | 21 - F6 |
|                                                                                  |         | under passenger seat                                           |         |

| Components                                       |         | View 151-*/coordinates                                |         |
|--------------------------------------------------|---------|-------------------------------------------------------|---------|
| Location                                         |         |                                                       |         |
| Power sliding rear window motor (14A464)         | 28 - D7 | Reversing lamp relay<br>in Central Junction Box (CJB) | 16 - E8 |
| vehicle interior, rear, center                   |         | Reversing lamp, left (13411)                          | 29 - B2 |
| Power sliding rear window switch                 |         | Reversing lamp, right (13411)                         | 29 - B5 |
| dash panel, center                               | 16 - A7 | Reversing lamp rear end, RH side                      | 14 - F3 |
| Power window motor, driver side front (23395)    | 22 - D7 | Reversing lamps switch                                | 28 - A3 |
| in driver door                                   |         | manual transmission, LH side, rear                    | 28 - B4 |
| Power window motor, left rear (23394)            | 26 - C6 | Roof marker lamp, center                              | 28 - A1 |
| in LH rear door                                  |         | roof, front                                           | 28 - A2 |
| Power window motor, passenger side front (23394) | 23 - D2 | Roof marker lamp, left                                | 28 - A3 |
| in passenger door                                |         | roof, front                                           | 28 - A4 |
| Power window motor, right rear (23394)           | 27 - C2 | Roof marker lamp, left center                         | 28 - B5 |
| in RH rear door                                  |         | roof, front                                           | 28 - F4 |
| Powertrain Control Module (PCM) (12A650)         | 5 - B7  | Roof marker lamp, right                               | 28 - F7 |
| engine compartment, left fender                  |         | roof, front                                           | 29 - D8 |
| Powertrain Control Module (PCM) (12A650)         | 1 - A3  | Roof marker lamp, right center                        | 20 - E6 |
| engine compartment, RH side, rear                |         | roof, front                                           | 21 - C3 |
| Powertrain Control Module (PCM) (12A650) - 6.8L  | 11 - A6 | Roof marker lamp, right                               | 20 - E2 |
| engine compartment, RH side, rear                |         | roof, front                                           | 21 - E3 |
| Powertrain Control Module (PCM) (12A650) - 5.4L  | 7 - A3  | Roof marker lamp, right center                        |         |
| engine compartment, RH side, rear                |         | roof, front                                           |         |
| Powertrain Control Module (PCM) (12A650) - 6.8L  | 10 - A3 | Roof marker lamp, right center                        |         |
| engine compartment, RH side, rear                |         | roof, front                                           |         |
| Radio                                            |         | Roof marker lamp, right center                        |         |
| dash panel, center                               | 16 - B5 | Roof marker lamp, right center                        |         |
| Radio (18806)                                    |         | Roof marker lamp, right center                        |         |
| dash panel, center                               | 15 - A5 | Roof marker lamp, right center                        |         |
| Rear axle speed sensor (4B409)                   |         | Roof marker lamp, right center                        |         |
| on differential                                  | 31 - B3 | Roof marker lamp, right center                        |         |
| Rear marker lamp assembly                        |         | Roof marker lamp, right center                        |         |
| vehicle rear end, center                         | 29 - F3 | Roof marker lamp, right center                        |         |
| Remote solenoid assembly                         |         | Roof marker lamp, right center                        |         |
| dash panel, behind A/C control                   | 17 - E3 | Roof marker lamp, right center                        |         |
| Restraints control module (14B321)               | 16 - F4 | Roof marker lamp, right center                        |         |
| behind dash panel, center                        |         | Roof marker lamp, right center                        |         |
| Restraints control module (14B321)               | 15 - E6 | Roof marker lamp, right center                        |         |
| behind dash panel, center                        |         | Roof marker lamp, right center                        |         |

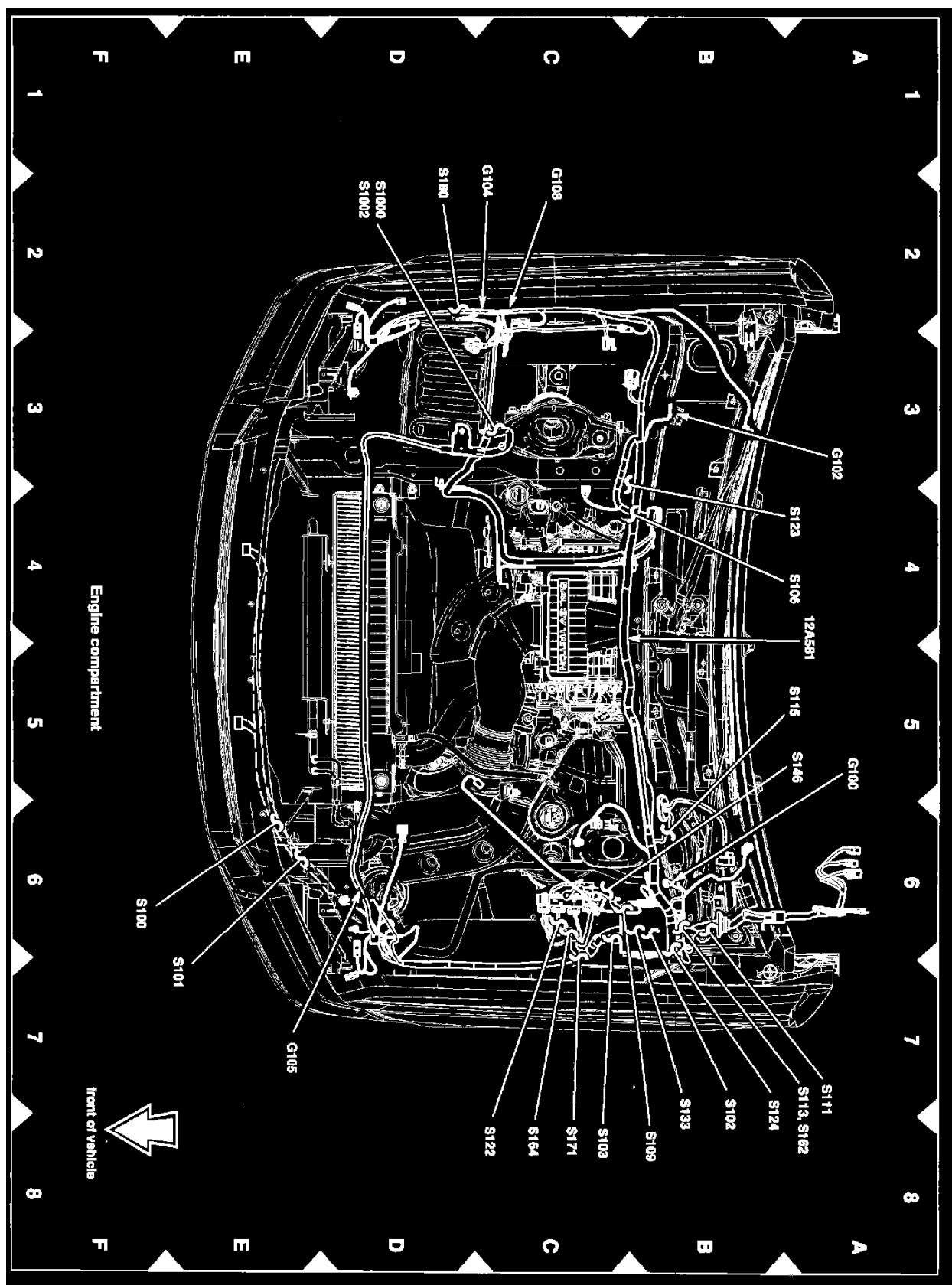
| Components                                                       |         | View 151-*/coordinates                                                          |         |
|------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|---------|
| Location                                                         |         |                                                                                 |         |
| Seat cushion heater, left front driver seat                      | 20 - E2 | Starter relay in Central Junction Box (CJB)                                     | 16 - E8 |
| Seat cushion heater, right front under passenger seat, RH side   | 21 - F2 | Steering wheel radio switch on steering column                                  | 15 - B4 |
| Seat heater switch, driver side driver seat, LH side             | 20 - E3 | Steering wheel/speed control switch (9F924) on steering column                  | 15 - E2 |
| Seat heater switch, passenger side under passenger seat, RH side | 21 - D2 | Sunload sensor (13A018) dash panel, top                                         | 16 - B3 |
| Side lamp 1, LH rear truck bed, left fender, front               | 28 - B7 | Temperature blend door actuator (19E616) under dash panel, RH side              | 16 - D2 |
| Side lamp 1, RH rear truck bed, right fender, front              | 29 - E6 | Throttle Position Sensor (TPS) (9B989) - 5.4L throttle body, LH side            | 8 - A5  |
| Side lamp 2, LH rear truck bed, left fender, rear                | 28 - D8 | Throttle Position Sensor (TPS) (9B989) - 6.8L throttle body, RH side            | 10 - A5 |
| Side lamp 2, RH rear truck bed, right fender, rear               | 29 - E6 | TorqShift transmission vehicle underbody, RH side, on transmission              | 14 - C7 |
| Side lamp, left front (13411) front of vehicle, LH side          | 1 - E7  | Tow/haul switch (7G550) on steering column, LH side                             | 16 - C8 |
| Side lamp, right front (13411) front of vehicle, RH side         | 1 - E1  | Tow/haul switch (7G550) on steering column, LH side                             | 18 - B3 |
| Speaker, left front (18808) in driver door                       | 22 - D7 | Trailer electronic brake control module behind dash panel, center               | 17 - F3 |
| Speaker, left rear (18808) in LH rear door                       | 28 - E7 | Trailer electronic brake control module behind dash panel, LH side              | 17 - D2 |
| Speaker, right front (18808) in LH rear door                     | 24 - C6 | Trailer tow connector, 4-pin vehicle rear end                                   | 29 - E3 |
| Speaker, right rear (18808) in passenger door                    | 23 - E2 | Trailer tow connector, 7-pin vehicle rear end                                   | 29 - E2 |
| Speaker, right rear (18808) in RH rear door                      | 25 - C2 | Trailer tow relay, battery charge in Central Junction Box (CJB)                 | 16 - E8 |
| Speaker, right rear (18808) in RH rear door                      | 28 - A5 | Trailer tow relay, left turn in Battery Junction Box (BJB)                      | 1 - B8  |
| Speed sensor assembly (7M101) transmission, front                | 14 - B5 | Trailer tow relay, parking lamp in Central Junction Box (CJB) (not serviceable) | 16 - E8 |
| Starter motor (11002) - 5.4L engine, bottom, RH side             | 8 - E5  | Trailer tow relay, right turn in Battery Junction Box (BJB)                     | 1 - B8  |
|                                                                  |         | Transfer case assembly on transfer case                                         | 14 - C7 |
|                                                                  |         | Transfer case assembly on transfer case                                         | 14 - E4 |

| Components                                                                    |       | View 151-*/coordinates |  |
|-------------------------------------------------------------------------------|-------|------------------------|--|
| Location                                                                      |       |                        |  |
| Transfer case high to low relay<br>in Auxiliary relay box 3                   | ..... | 1 - A8                 |  |
| Uplifter relay<br>in Central Junction Box (CJB)                               | ..... | 16 - E8                |  |
| Uplifter relay #1<br>in Uplifter relay box                                    | ..... | 16 - E3                |  |
| Uplifter relay #2<br>in Uplifter relay box                                    | ..... | 16 - E3                |  |
| Uplifter relay #3<br>in Uplifter relay box                                    | ..... | 16 - E3                |  |
| Uplifter relay #4<br>in Uplifter relay box                                    | ..... | 16 - E3                |  |
| Uplifter relay box (14A464)<br>behind glove box                               | ..... | 16 - E3                |  |
| Uplifter switch<br>dash panel, center                                         | ..... | 15 - E6                |  |
| Vacuum pump motor<br>engine compartment, RH side                              | ..... | 3 - B2                 |  |
| Vacuum pump motor<br>engine compartment, RH side                              | ..... | 30 - E4                |  |
| Vanity mirror lamp, left (04100)<br>roof, LH side, front                      | ..... | 28 - B1                |  |
| Vanity mirror lamp, right (04100)<br>roof, RH side, front                     | ..... | 28 - A1                |  |
| Vapor management valve<br>engine compartment, rear                            | ..... | 1 - C2                 |  |
| Variable camshaft timing solenoid #1 RH bank - 5.4L<br>engine, RH side, front | ..... | 7 - B1                 |  |
| Variable camshaft timing solenoid #1 RH bank - 5.4L<br>engine, RH side, front | ..... | 8 - C7                 |  |
| Variable camshaft timing solenoid #2 LH bank - 5.4L<br>engine, LH side, front | ..... | 7 - F3                 |  |
| Variable geometric turbo actuator - 6.0L Diesel<br>engine, top                | ..... | 12 - A5                |  |
| Vehicle Security Module (VSM) (15K602)<br>under dash panel, LH side           | ..... | 28 - C1                |  |
| <b>Water-in-fuel sensor</b>                                                   |       |                        |  |
| vehicle underbody, LH side, near transmission                                 | ..... | 32 - C2                |  |
| Wheel speed sensor, left front (2C205)<br>engine compartment, LH side         | ..... | 1 - A5                 |  |
| Wheel speed sensor, right front (2C204)<br>engine compartment, RH side        | ..... | 1 - A3                 |  |
| Window adjust switch left rear (14A412)<br>in LH rear door, top               | ..... | 26 - B3                |  |
| Window adjust switch, passenger side<br>in passenger door, top of door trim   | ..... | 23 - A3                |  |
| Window adjust switch, right rear (14A412)<br>in RH rear door                  | ..... | 27 - C7                |  |
| Windshield washer pump motor (17618)<br>engine compartment, RH side           | ..... | 1 - E3                 |  |
| Windshield wiper motor (17D539)<br>engine compartment, rear                   | ..... | 1 - A5                 |  |

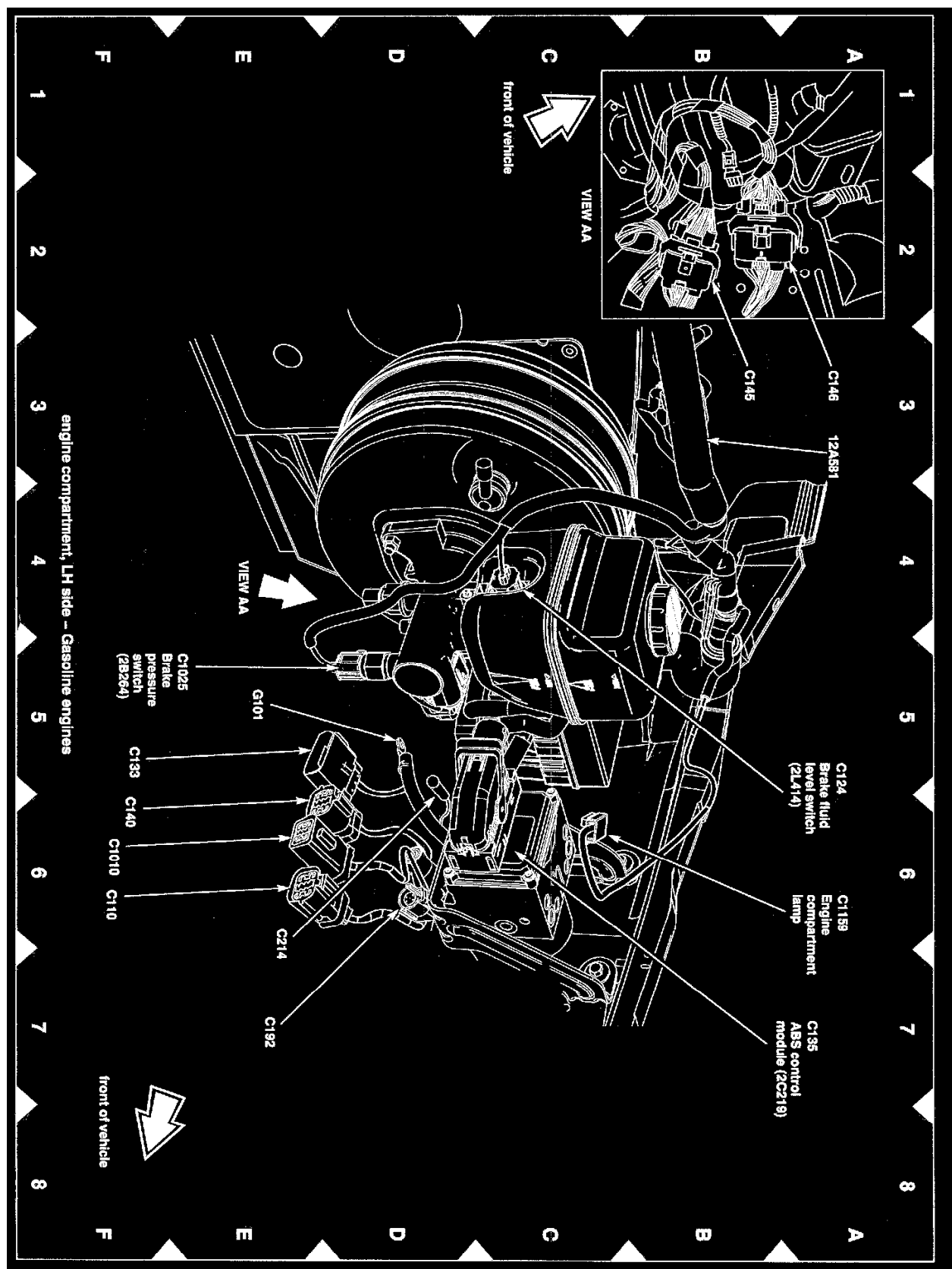




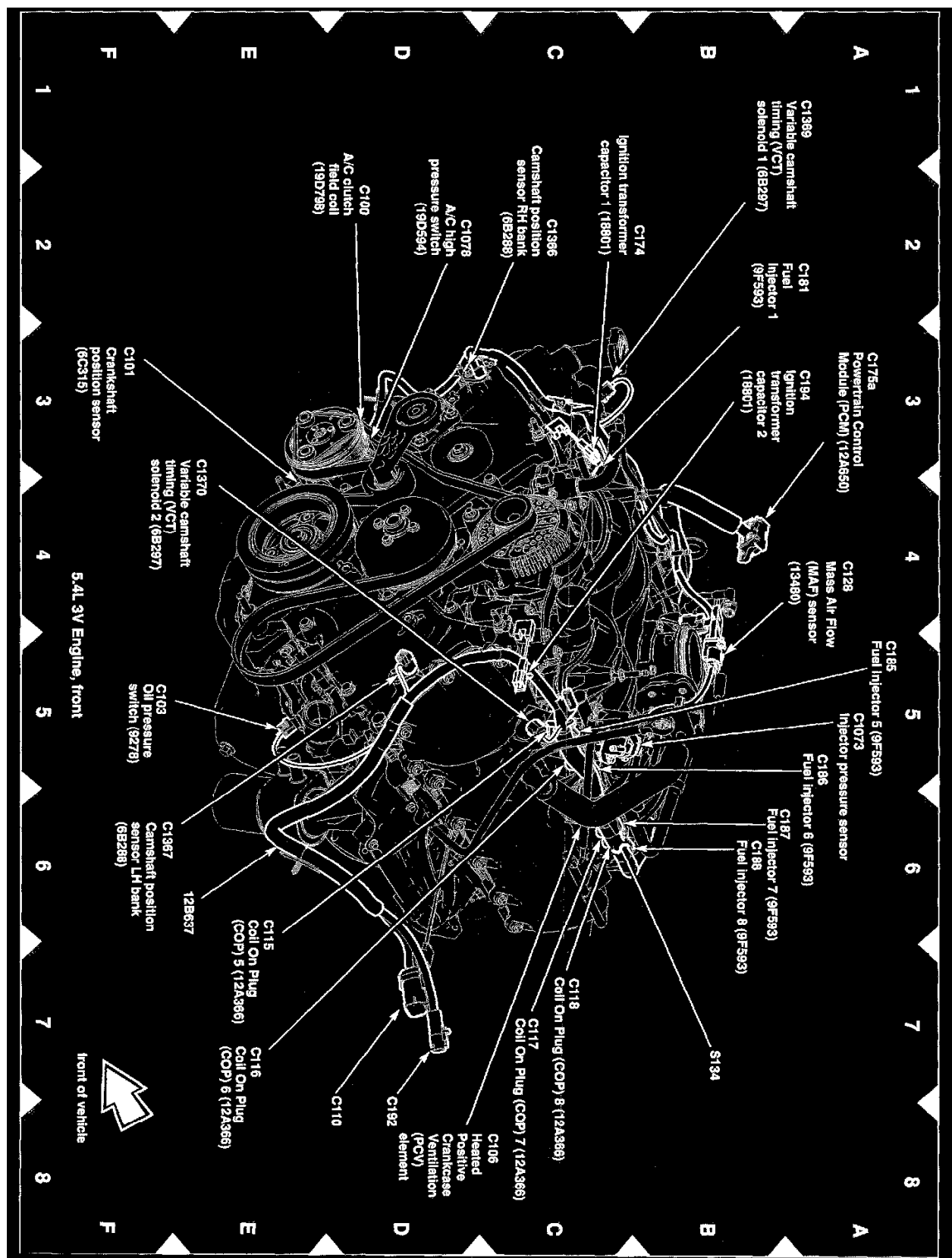
View 151-1 (Engine Compartment)



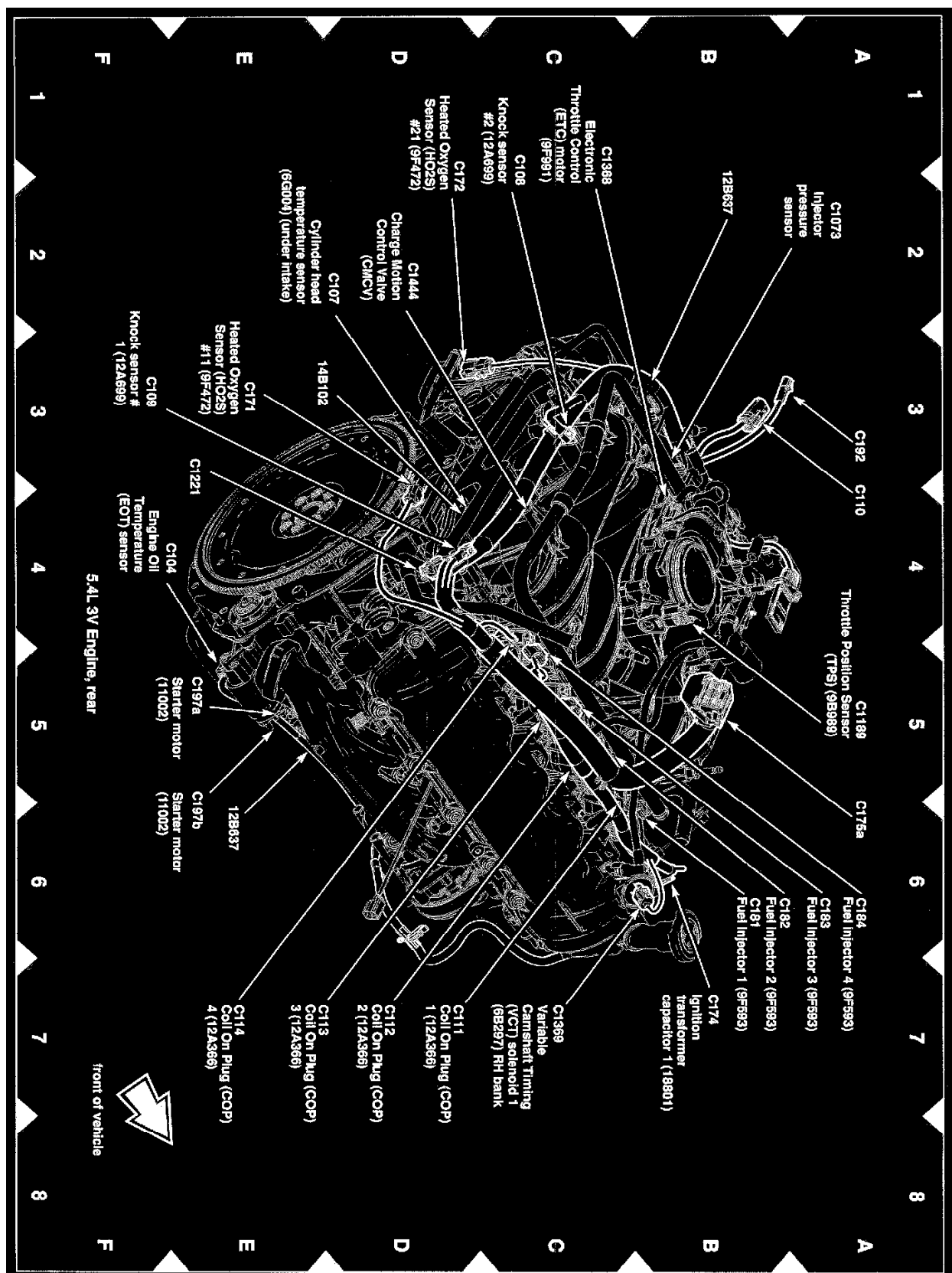
View 151-2 (Engine Compartment)



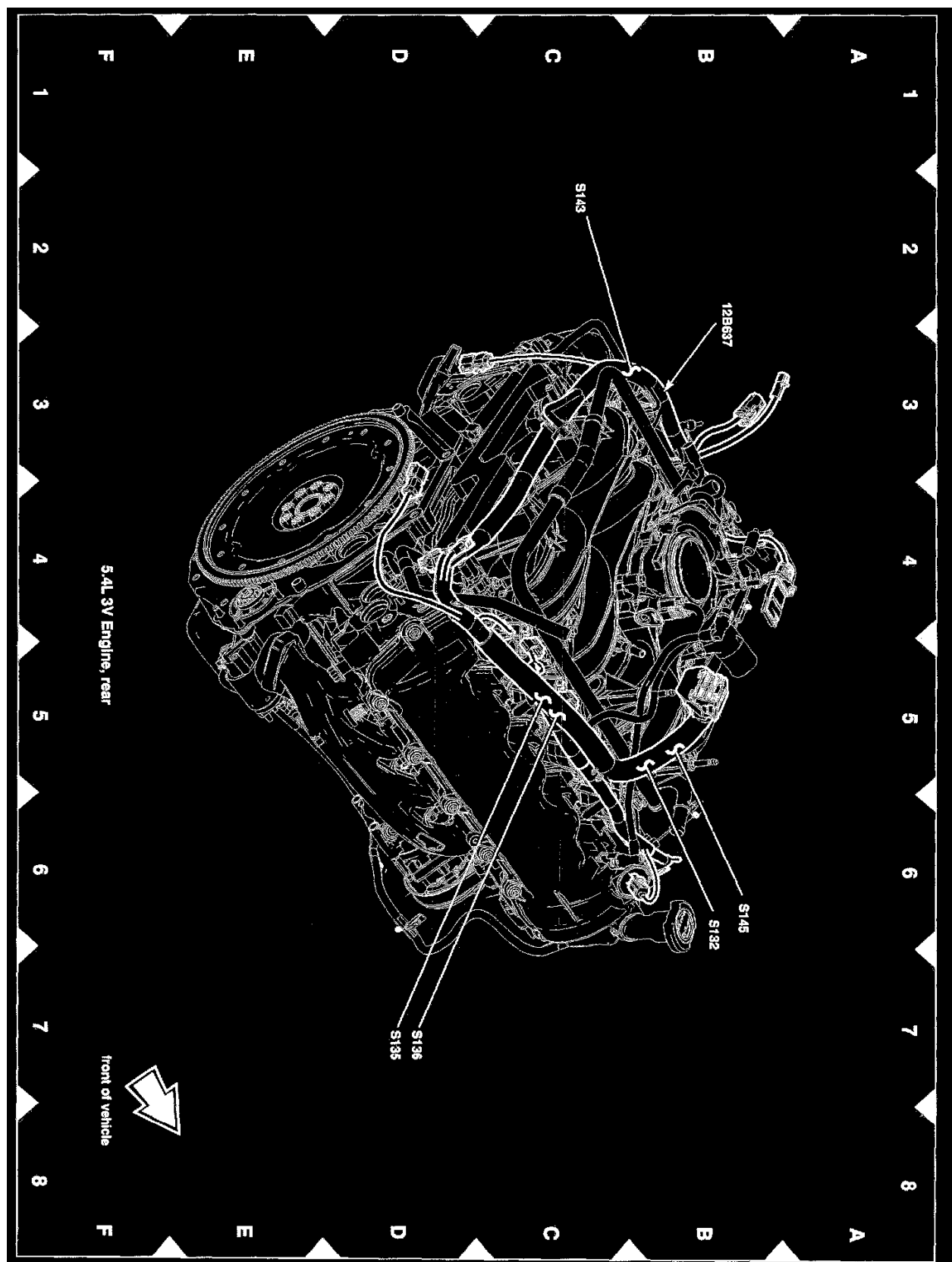
View 151-6 (Engine Compartment, LH Side)



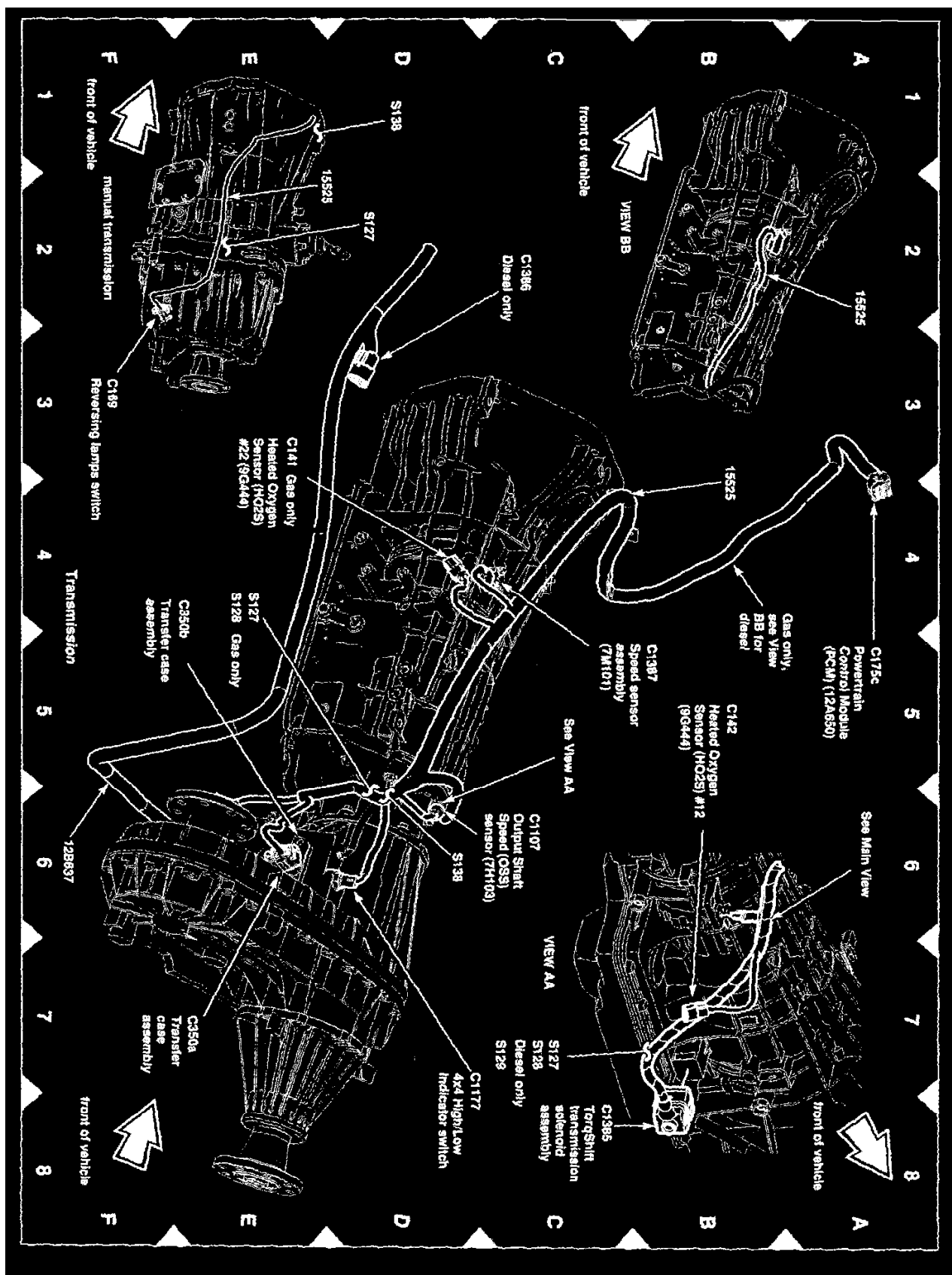
View 151-7 (Engine, Front)



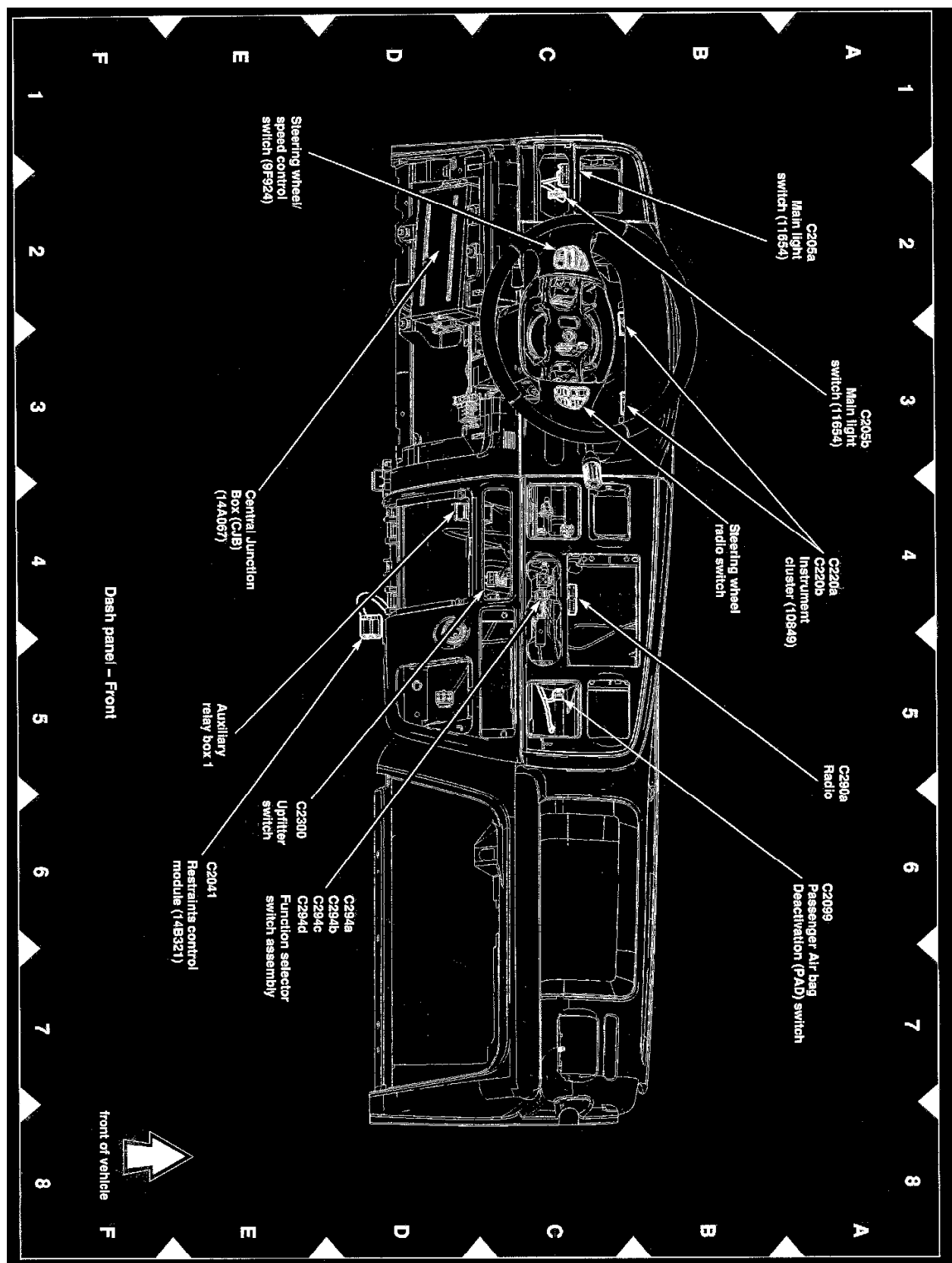
View 151-8 (Engine, Rear)



View 151-9 (Engine, Rear)



**View 151-14 (Transmission)**

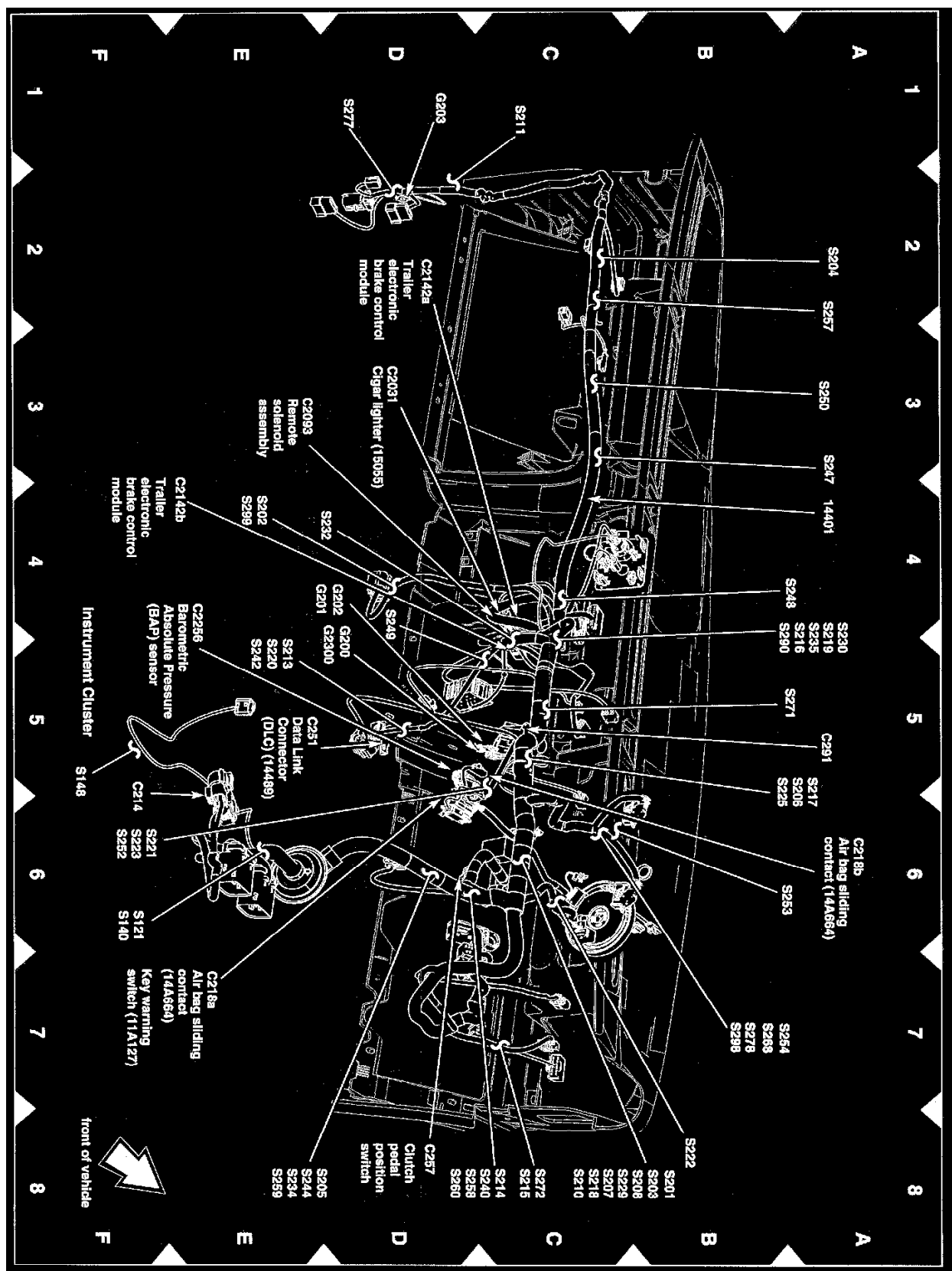


View 151-15 (Dash Panel - Front)

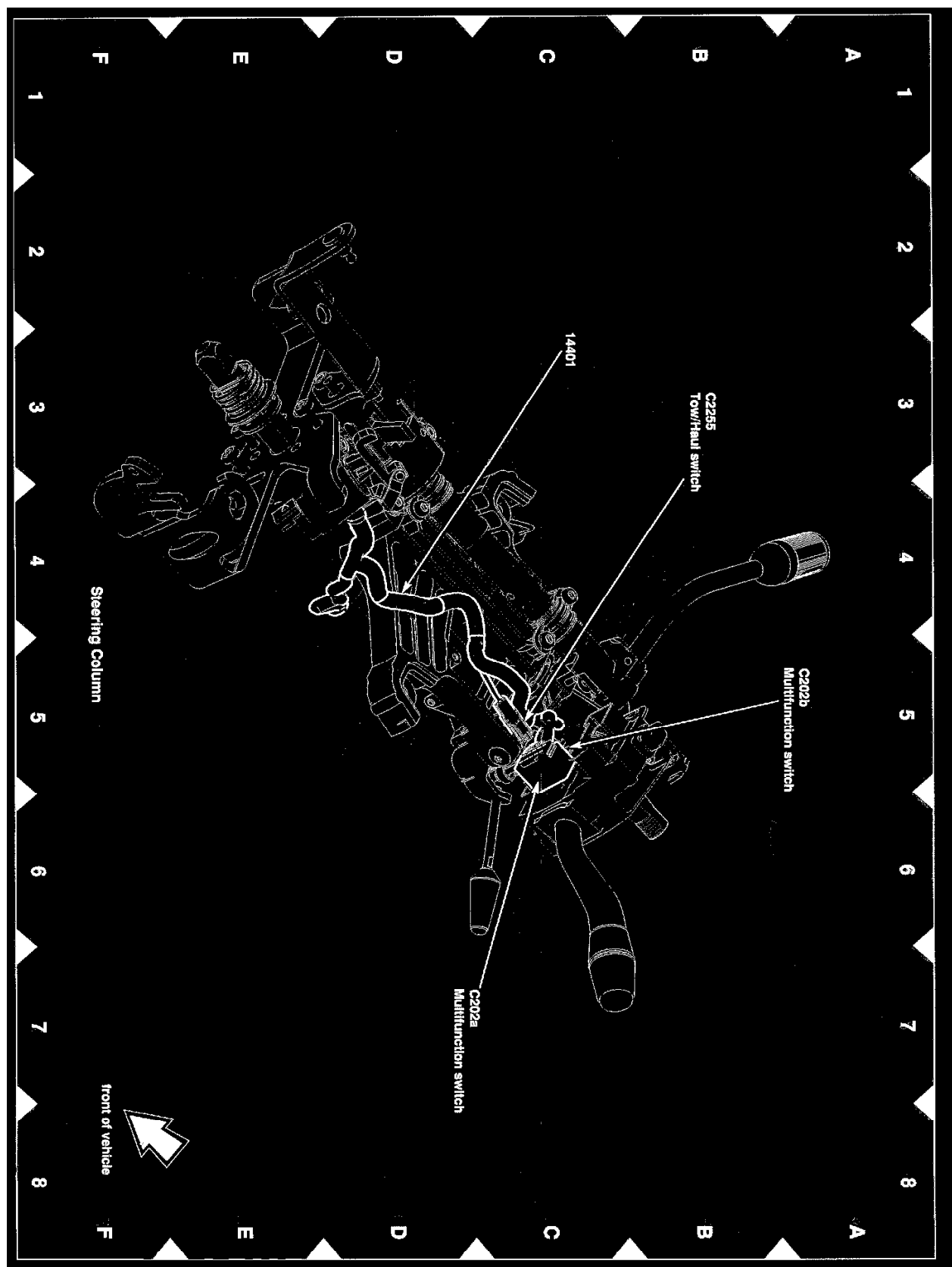




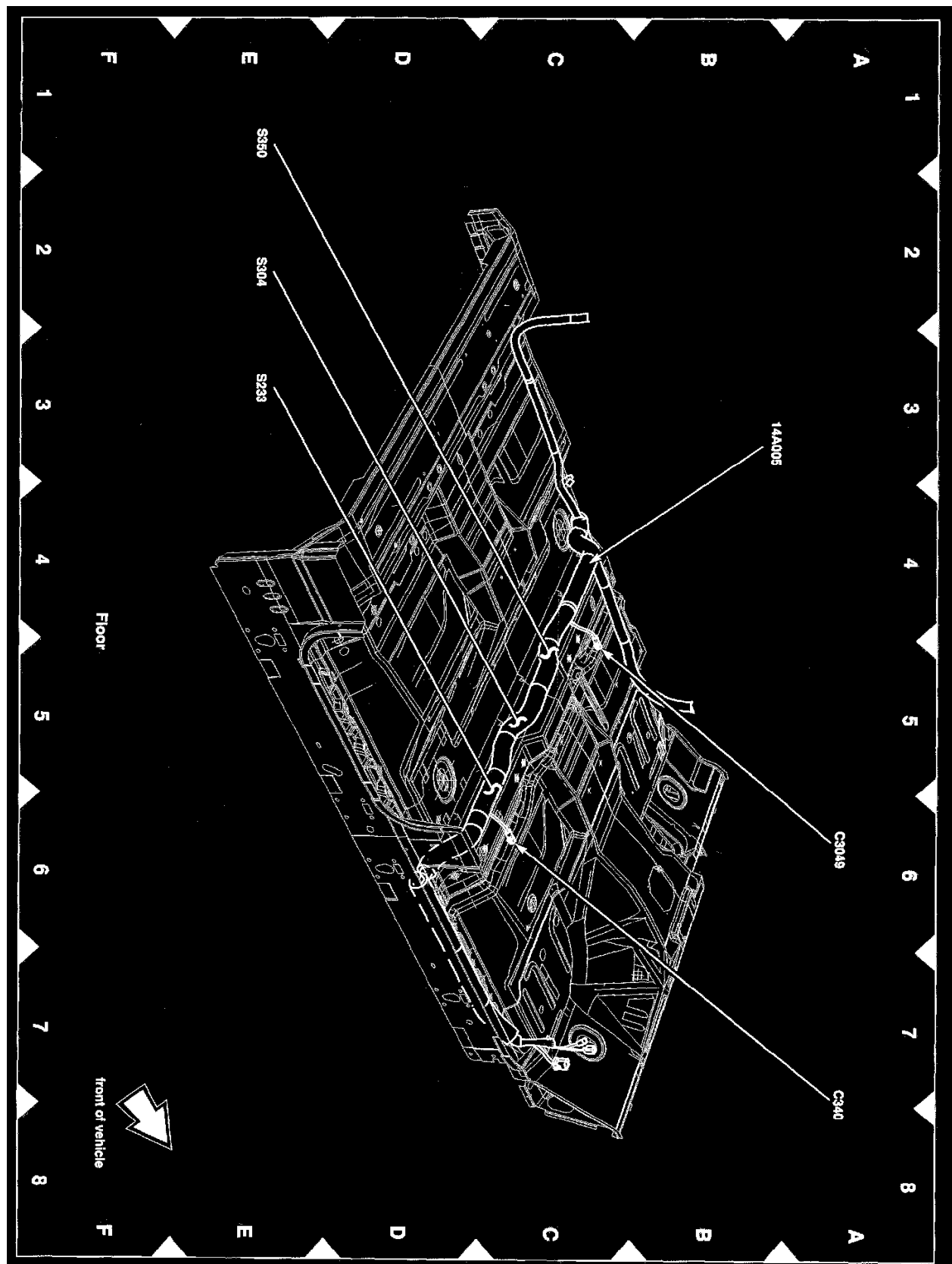
### View 151-16 (Instrument Panel)



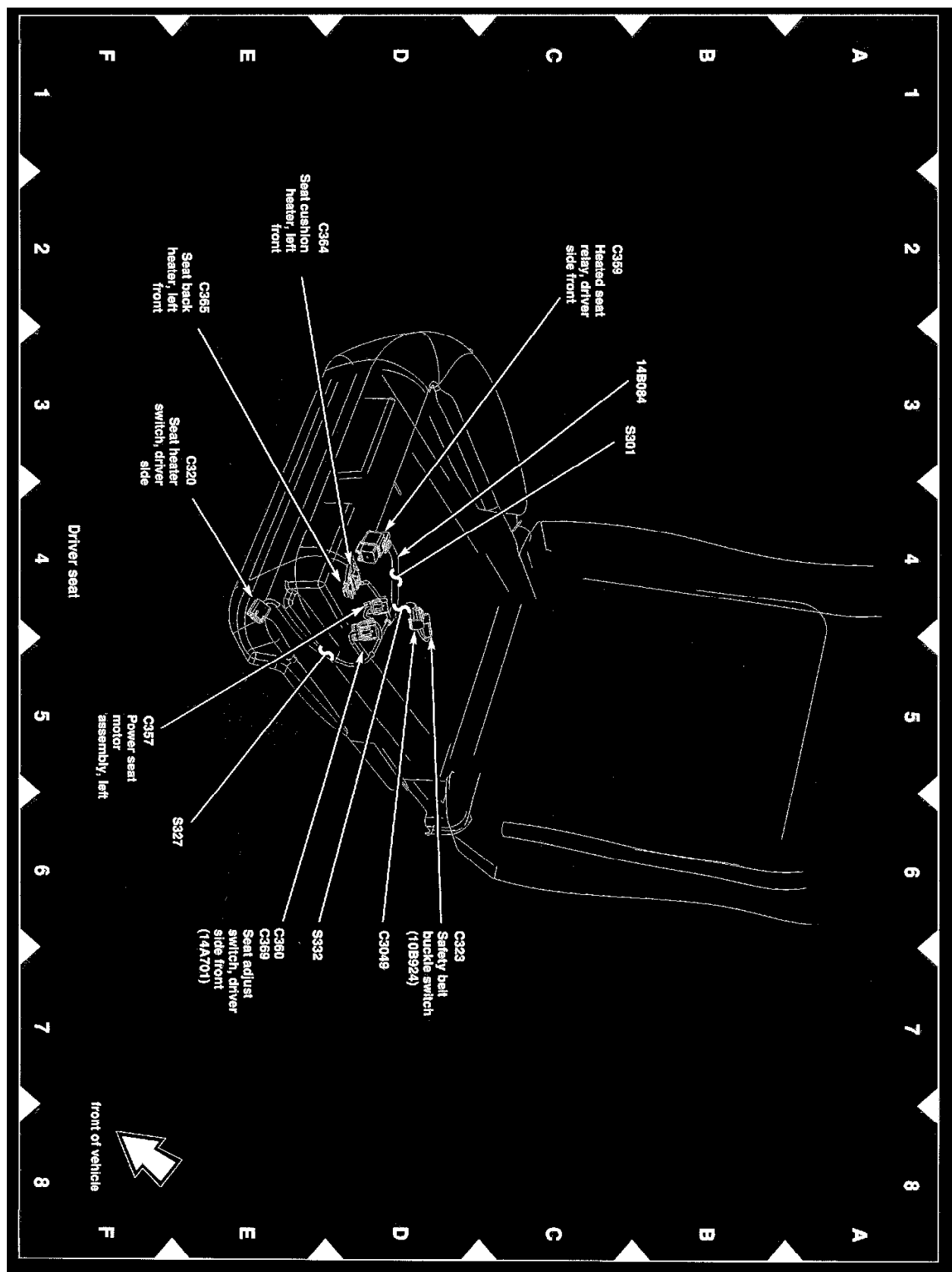
View 151-17 (Instrument Cluster)



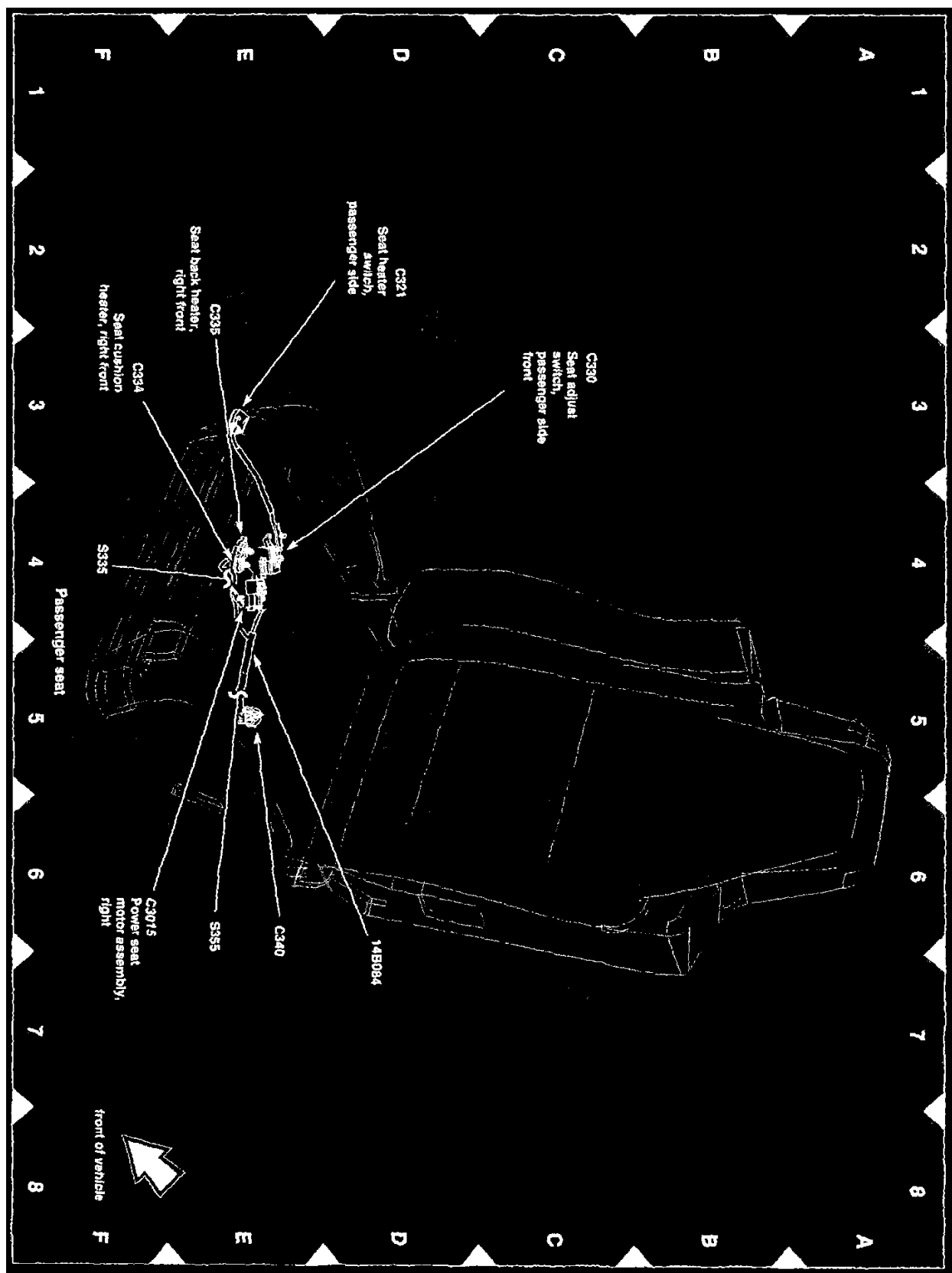
View 151-18 (Steering Column)



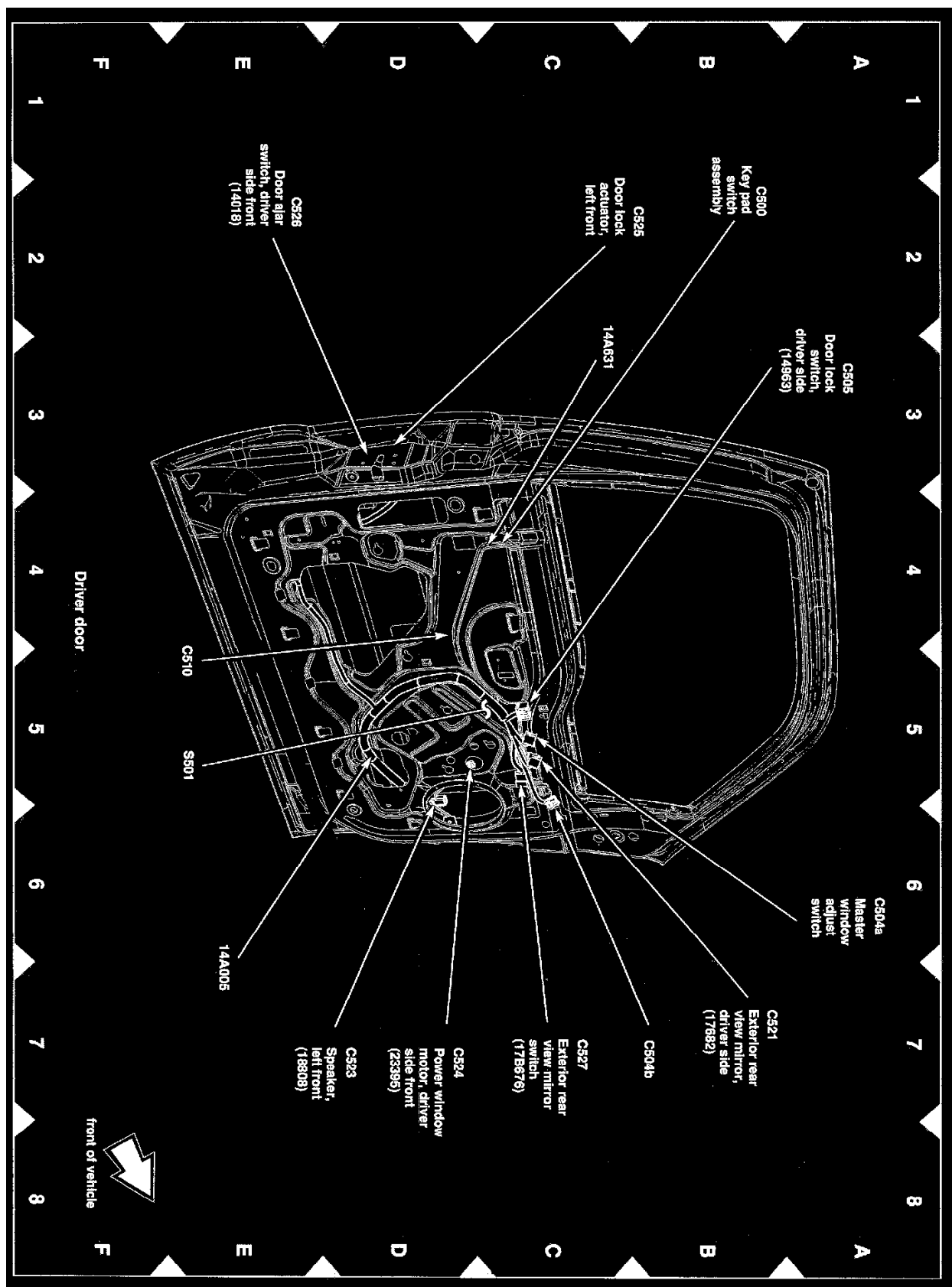
View 151-19 (Floor)



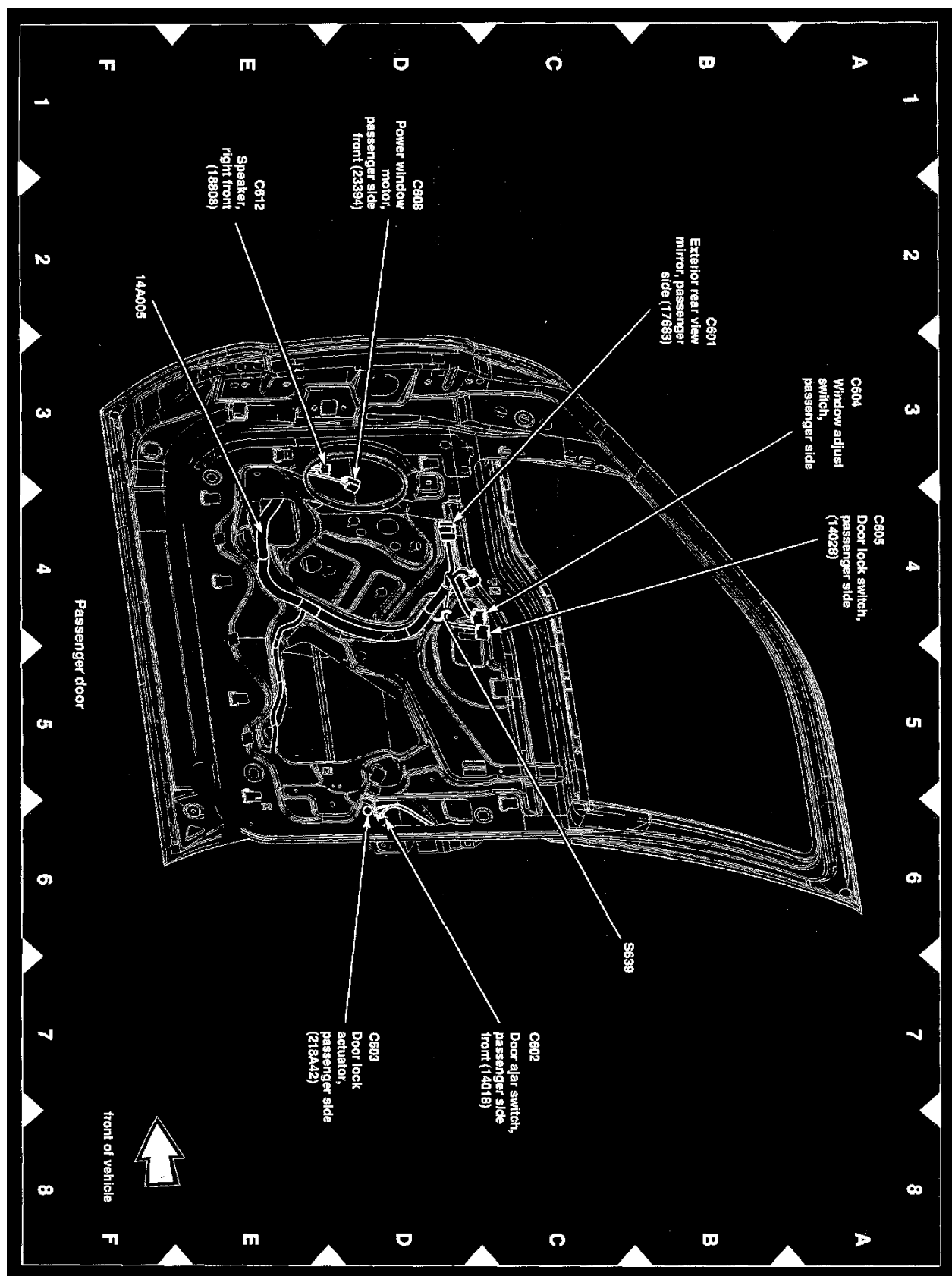
View 151-20 (Driver Seat)



View 151-21 (Passenger Seat)

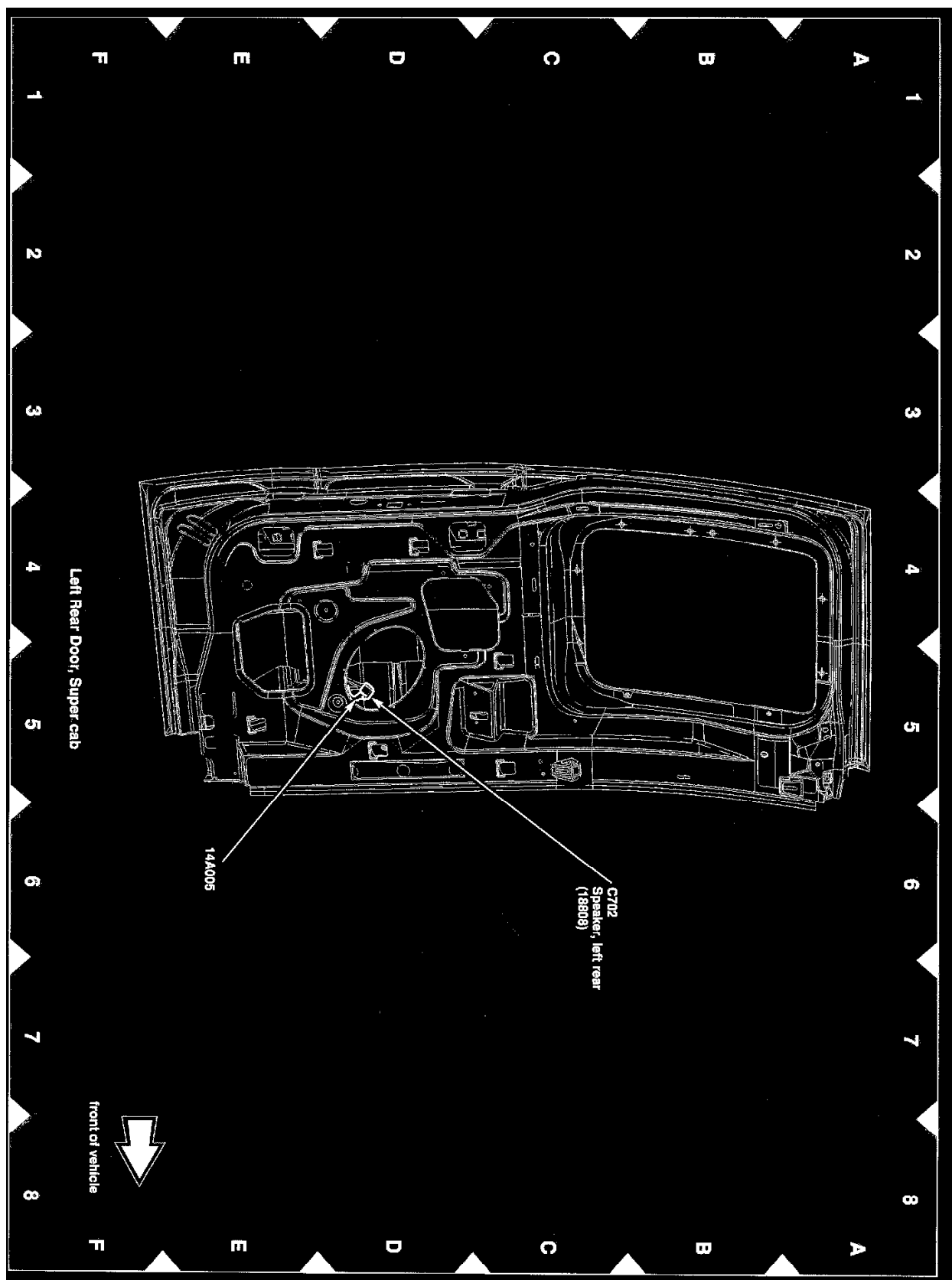


View 151-22 (Driver Door)

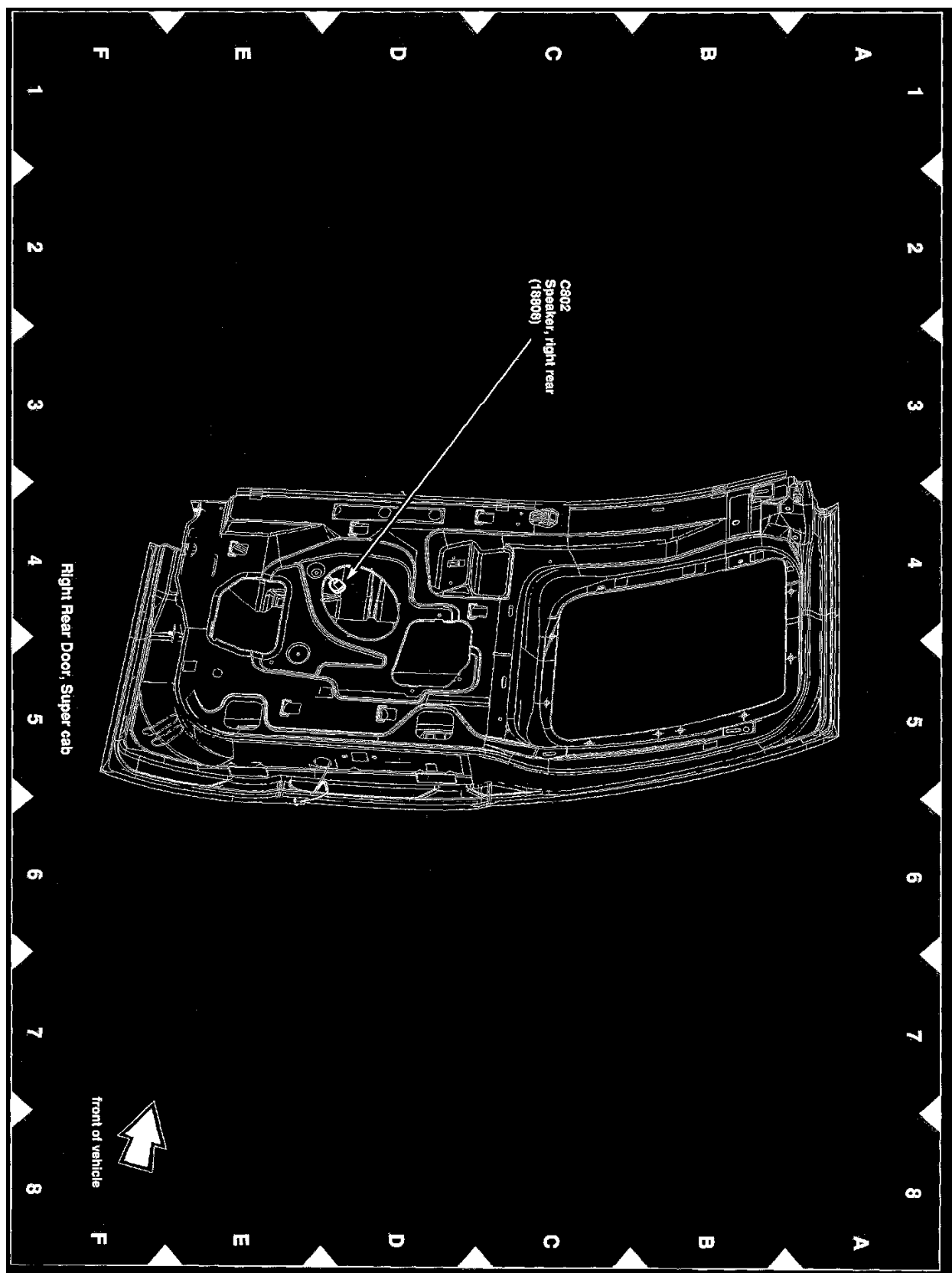


View 151-23 (Passenger Door)

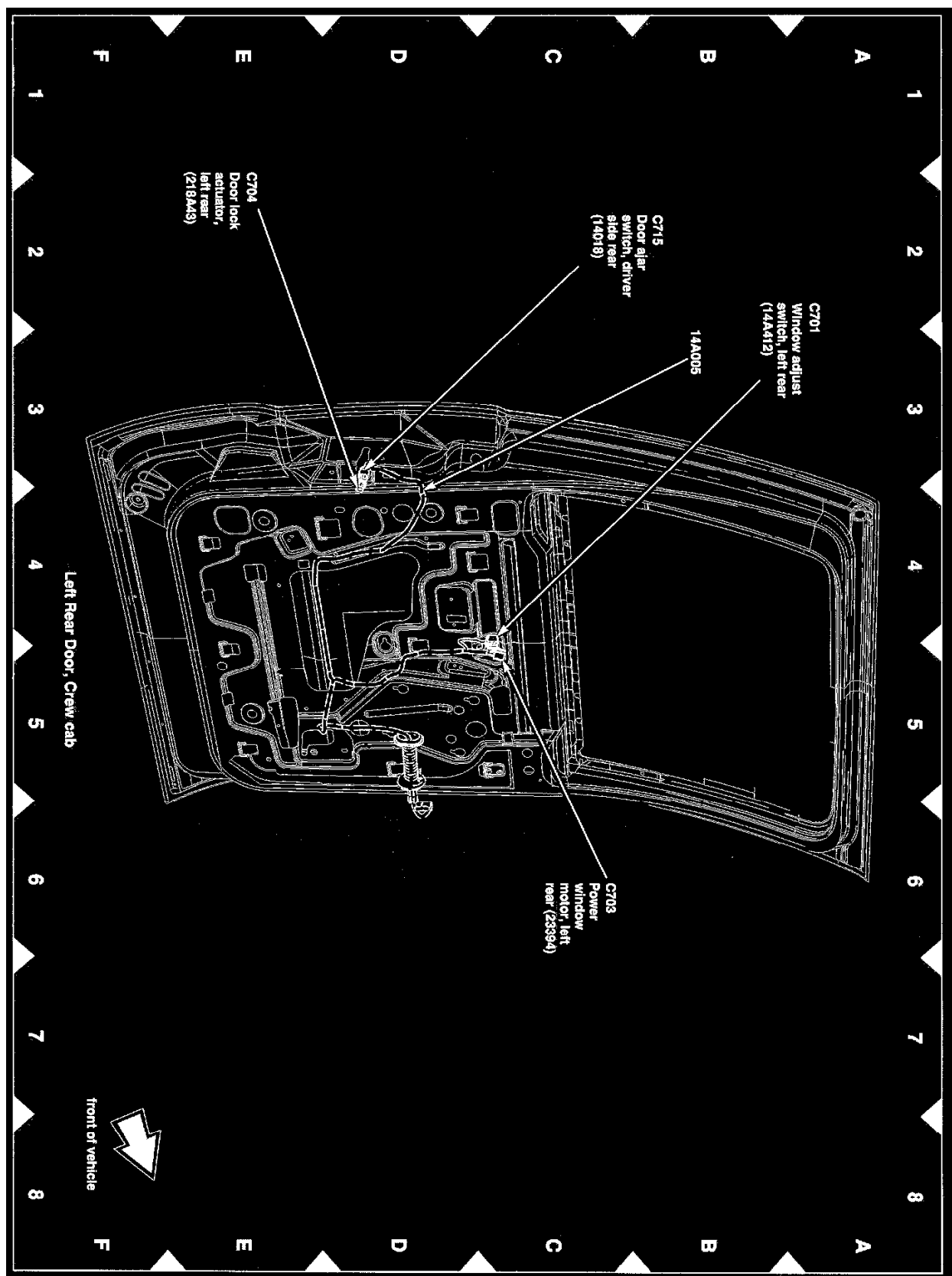




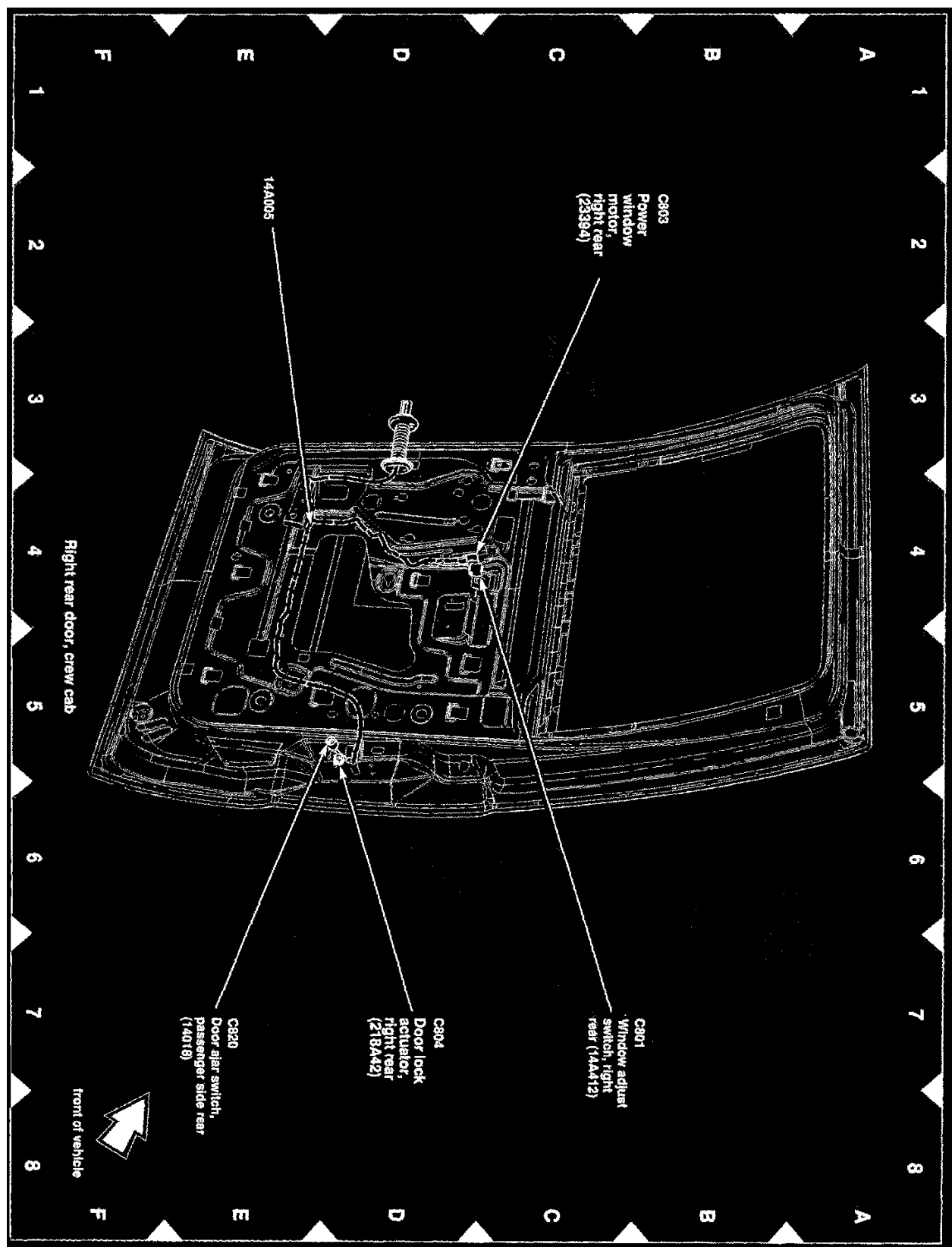
View 151-24 (Left Rear Door, Super Cab)



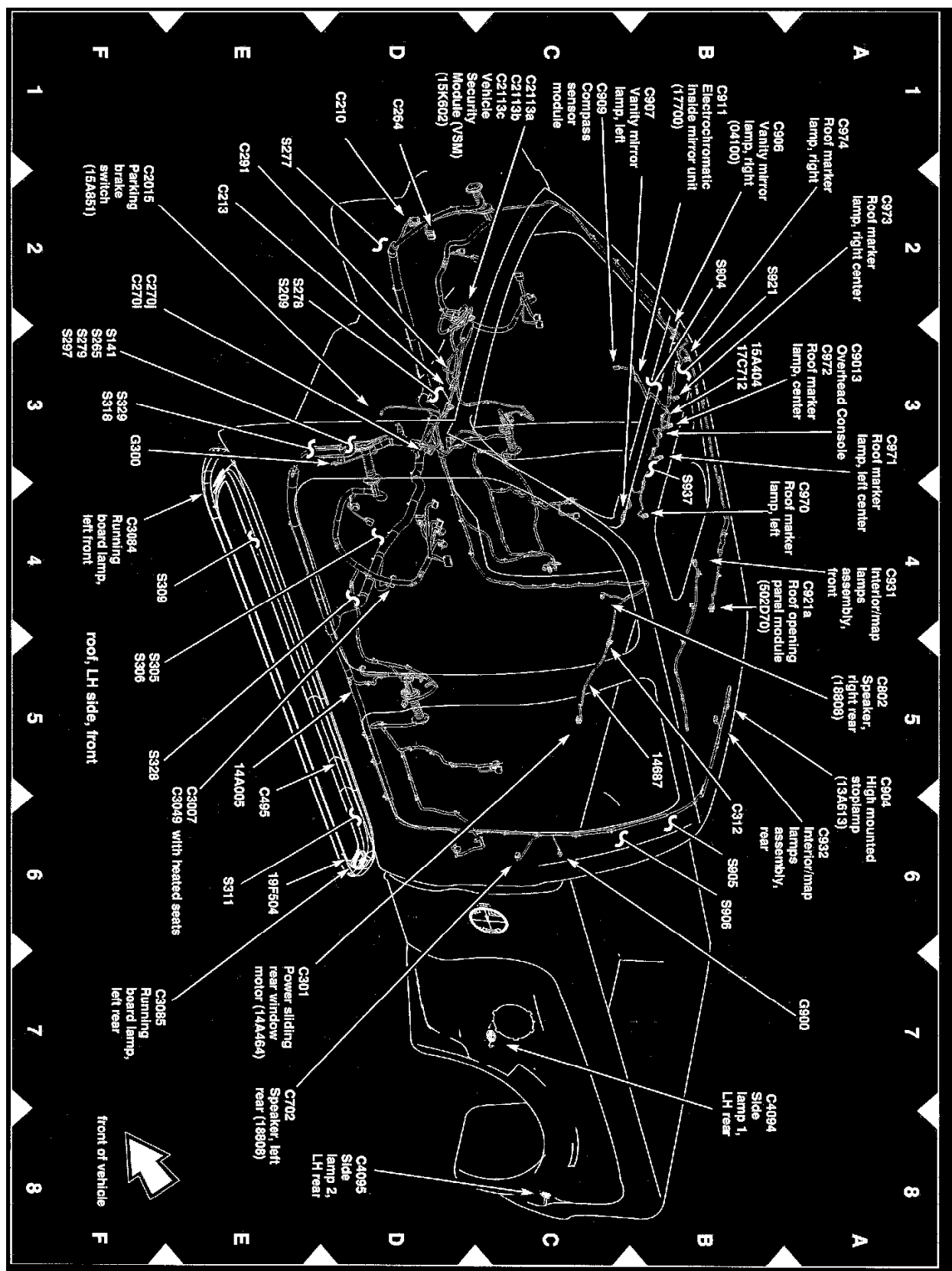
View 151-25 (Right Rear Door, Super Cab)



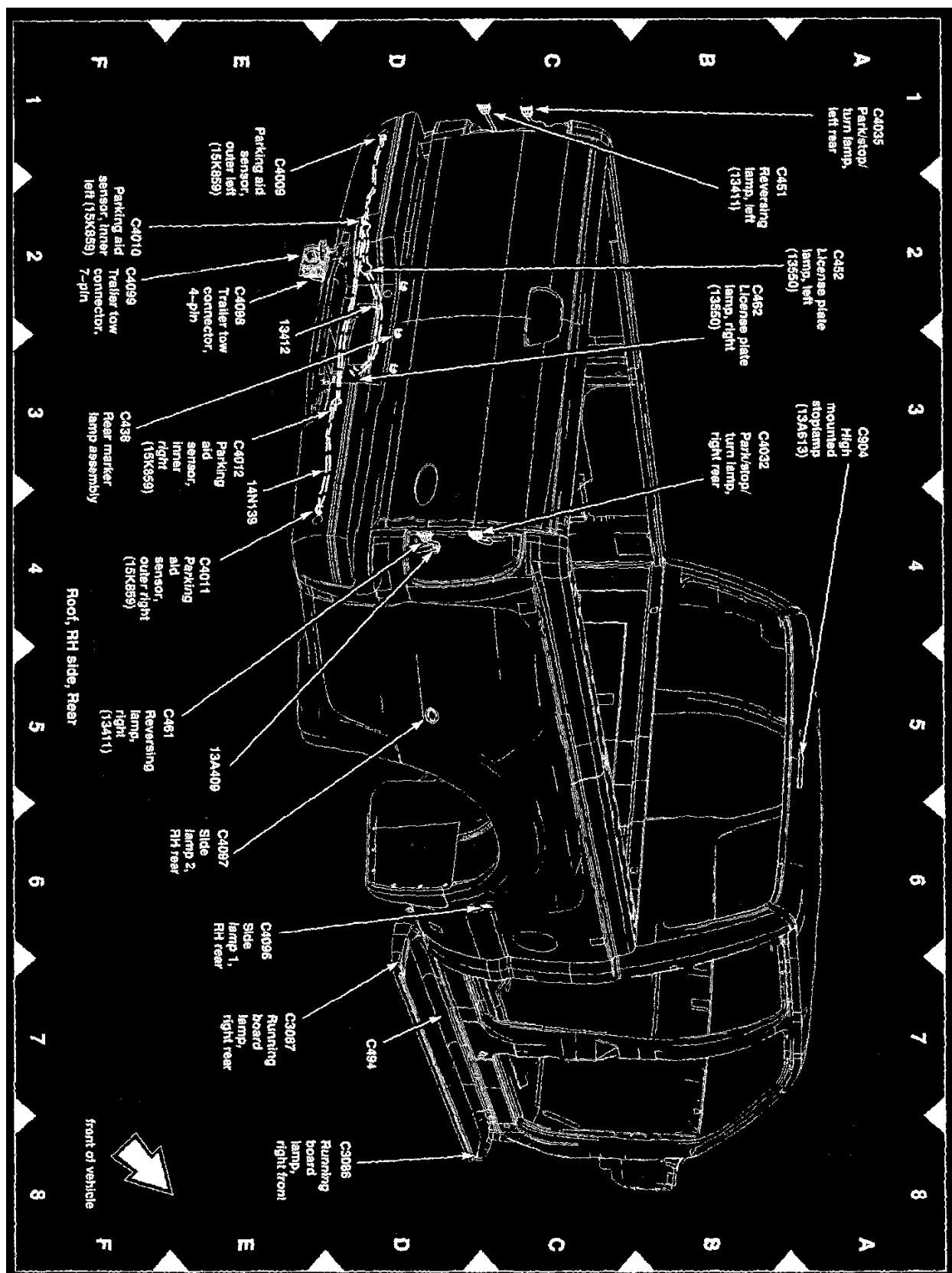
View 151-26 (Left Rear Door, Crew Cab)



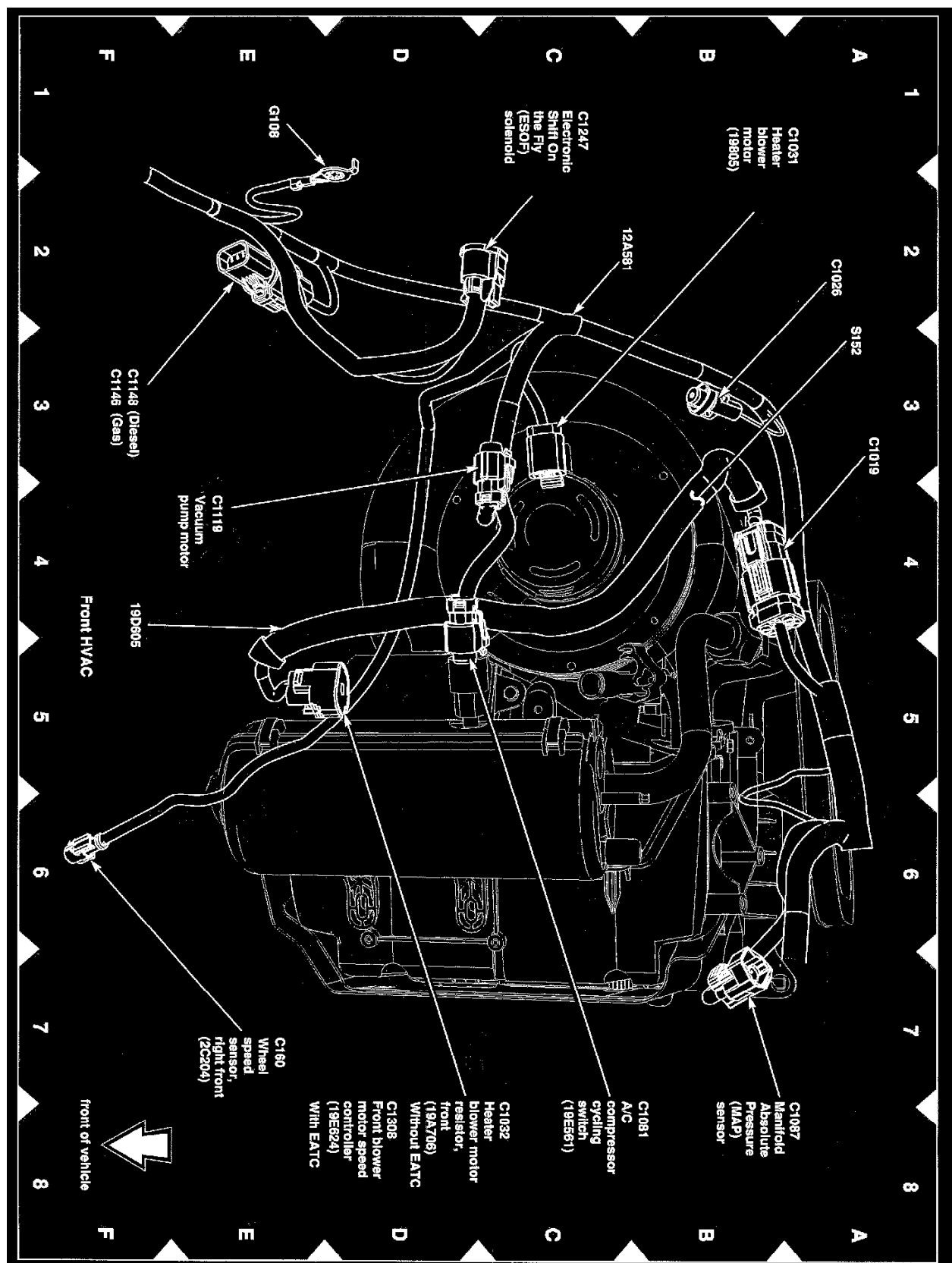
View 151-27 (Right Rear Door, Crew Cab)



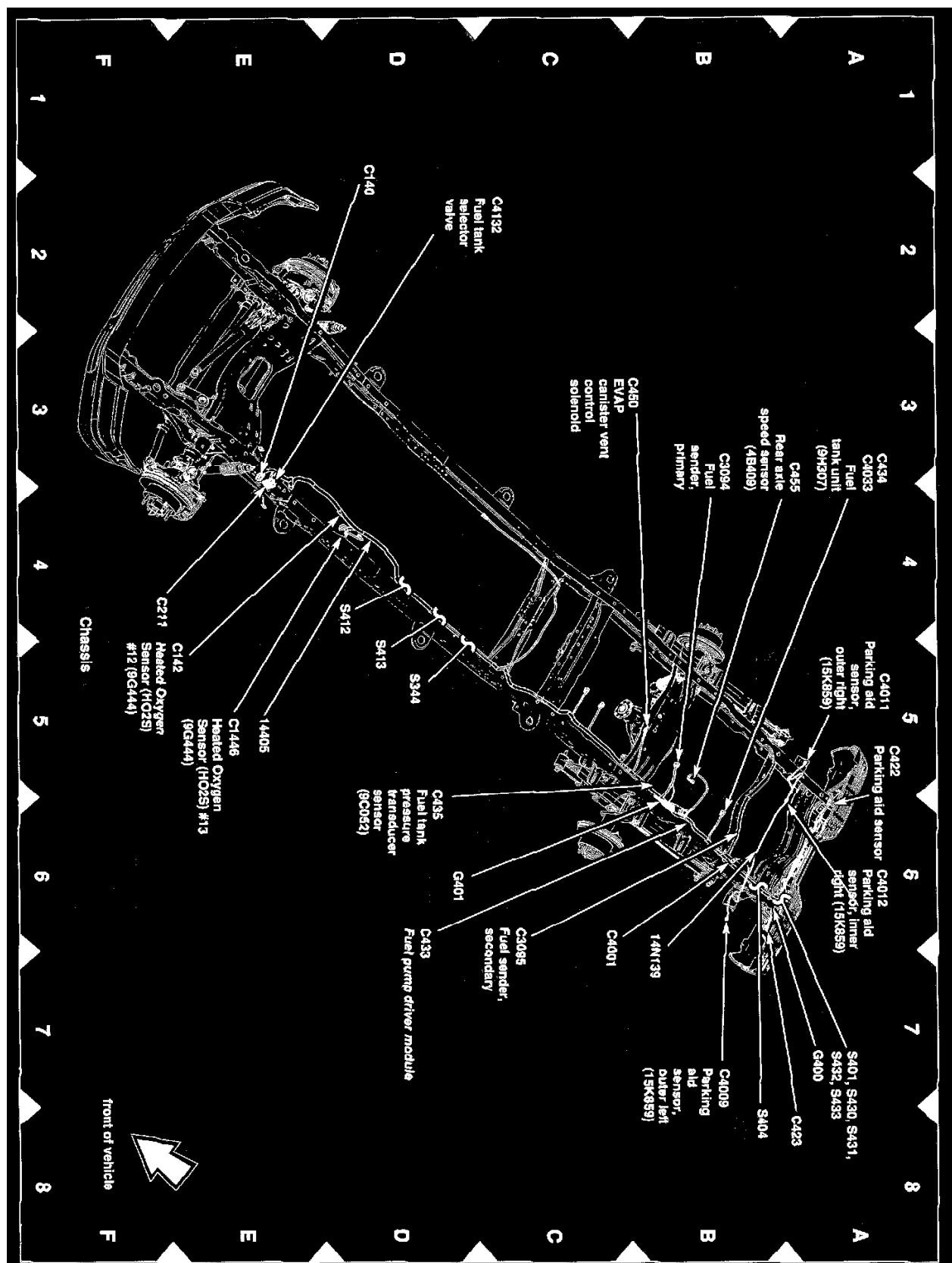
**View 151-28 (Roof, LH Side, Front)**



View 151-29 (Roof, RH Side, Rear)

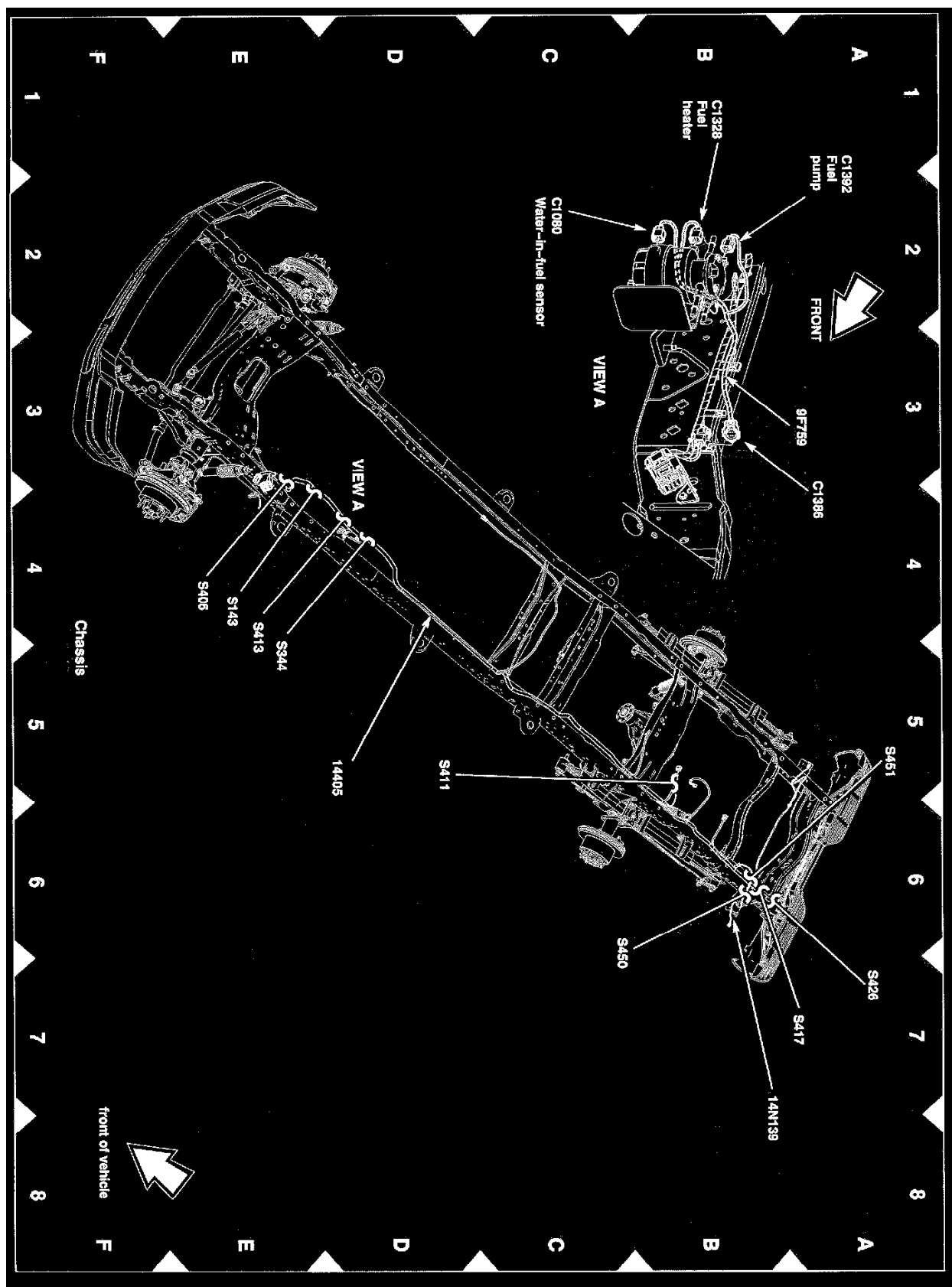


View 151-30 (Front HVAC)

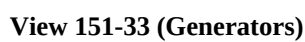


View 151-31 (Chassis)





View 151-32 (Chassis)



**PLEASE NOTE:** If a link on the Connector Location Index to a View is not provided, that means that the Connector and/or View in question does NOT apply to the vehicle model selected.

| Connectors |                                                     | View 151-*/coordinates |  |
|------------|-----------------------------------------------------|------------------------|--|
|            | Location                                            |                        |  |
| C100       | engine, front, on A/C compressor - 6.0L Diesel      | 13 - E7                |  |
| C100       | engine, front, on A/C compressor - 6.8L             | 10 - D1                |  |
| C100       | engine, front, on A/C compressor - 5.4L             | 7 - D1                 |  |
| C101       | engine, front, behind crankshaft pulley - 5.4L      | 7 - F3                 |  |
| C101       | engine, RH side, below glow plug bank - 6.0L Diesel | 13 - E6                |  |
| C101       | engine, front, behind crankshaft pulley - 6.8L      | 10 - E2                |  |
| C102a      | engine, upper, front                                | 33 - A7                |  |
| C102a      | engine, upper, front                                | 33 - B1                |  |
| C102b      | engine, upper, front                                | 33 - B1                |  |
| C102c      | engine, RH side, top                                | 33 - B1                |  |
| C102c      | engine, RH side, top                                | 33 - A4                |  |
| C103       | engine, LH side, lower - 6.0L Diesel                | 13 - B7                |  |
| C103       | engine, LH side, lower - 6.8L                       | 10 - F4                |  |
| C103       | engine, LH side, lower - 5.4L                       | 7 - F6                 |  |
| C104       | engine, rear - 5.4L                                 | 8 - F4                 |  |
| C104       | engine, top on oil reservoir - 5.4L                 | 13 - C7                |  |
| C104       | engine, top on oil reservoir - 6.0L Diesel          | 13 - C7                |  |
| C106       | engine, top, LH side - 5.4L                         | 7 - E7                 |  |
| C107       | engine, top, LH side - 5.4L                         | 8 - F3                 |  |
| C107       | engine, top, LH side - 6.8L                         | 11 - B7                |  |
| C108       | engine, rear, RH cylinder head - 5.4L               | 8 - D2                 |  |
| C109       | engine, rear, LH cylinder head - 5.4L               | 8 - E6                 |  |
| C110       | engine compartment, LH side - 5.4L                  | 8 - A3                 |  |
| C110       | engine compartment, LH side - 6.8L                  | 10 - D7                |  |
| C111       | engine, top, RH side - 5.4L                         | 8 - D7                 |  |
| C111       | engine, top, RH side - 6.8L                         | 11 - D7                |  |
| C112       | engine, top, RH side - 5.4L                         | 8 - D7                 |  |
| C112       | engine, top, RH side - 6.8L                         | 11 - D7                |  |
| C113       | engine, top, RH side - 5.4L                         | 8 - D7                 |  |
| C113       | engine, top, RH side - 6.8L                         | 11 - D7                |  |
| C114       | engine, top, RH side - 6.8L                         | 11 - E7                |  |
| C114       | engine, top, RH side - 5.4L                         | 8 - E7                 |  |
| C115       | engine, top, LH side - 5.4L                         | 7 - E6                 |  |
| C115       | engine, top, LH side - 6.8L                         | 11 - E7                |  |
| C116       | engine, top, LH side - 5.4L                         | 7 - E7                 |  |
| C116       | engine, top, LH side - 6.8L                         | 10 - E7                |  |
| C117       | engine, top, LH side - 5.4L                         | 7 - C7                 |  |
| C117       | engine, top, LH side - 6.8L                         | 10 - E7                |  |
| C118       | engine, top, LH side - 5.4L                         | 7 - C6                 |  |
| C118       | engine, top, LH side - 6.8L                         | 10 - D7                |  |
| C124       | engine compartment, LH side - Diesel                | 5 - A5                 |  |
| C124       | engine compartment, LH side                         | 6 - C7                 |  |
| C125       | engine compartment, rear                            | 1 - A5                 |  |
| C128       | engine compartment, in intake system                | 1 - A4                 |  |
| C128       | engine compartment, in intake system - Diesel       | 3 - F4                 |  |
| C129       | engine compartment, in intake system - Diesel       | 3 - B4                 |  |
| C131       | engine compartment, front, RH side                  | 1 - D1                 |  |
| C132       | engine compartment, front                           | 1 - E6                 |  |
| C133       | engine compartment, LH side, rear                   | 6 - F6                 |  |
| C135       | engine compartment, LH side - Diesel                | 5 - A7                 |  |
| C135       | engine compartment, LH side                         | 6 - A7                 |  |
| C137       | engine compartment, RH side                         | 1 - E3                 |  |
| C140       | engine compartment, LH side, rear - Diesel          | 5 - E5                 |  |
| C140       | engine compartment, LH side, rear                   | 6 - F6                 |  |
| C141       | vehicle underbody, LH side, rear                    |                        |  |
|            | transmission                                        | 14 - F2                |  |
| C142       | vehicle underbody, RH side, rear                    |                        |  |
|            | transmission                                        | 14 - B5                |  |
| C145       | engine compartment, LH side, rear                   | 5 - B3                 |  |
| C145       | engine compartment, LH side, rear - Diesel          | 6 - B3                 |  |
| C146       | engine compartment, LH side, rear - Diesel          | 5 - A3                 |  |
| C146       | engine compartment, LH side, rear                   | 6 - B3                 |  |
| C150       | engine compartment, LH side                         | 1 - A5                 |  |
| C152       | front of vehicle, (exterior), LH side               | 3 - F5                 |  |
| C162       | engine compartment, RH side                         | 30 - E7                |  |
| C162       | front of vehicle, (exterior), RH side - Diesel      | 3 - F3                 |  |
| C169       | on transmission                                     | 14 - F3                |  |
| C171       | engine, rear, RH side - 5.4L                        | 8 - E3                 |  |
| C171       | engine, rear, RH side - 6.8L                        | 11 - F3                |  |
| C172       | engine, rear, LH side - 5.4L                        | 8 - D2                 |  |
| C172       | engine, rear, LH side - 6.8L                        | 11 - E1                |  |
| C172       | engine, rear, LH side - 6.8L                        | 10 - C7                |  |
| C174       | engine, top - 5.4L                                  | 8 - B7                 |  |
| C174       | engine, top - 6.8L                                  | 10 - B1                |  |

**Connectors**

|       | Location                                       | View 151-*/coordinates |       |                                                  |
|-------|------------------------------------------------|------------------------|-------|--------------------------------------------------|
| C175a | engine compartment, RH side, rear              | 1 - A4                 | C218a | engine compartment, LH side, rear - Diesel       |
| C175b | engine compartment, RH side, rear              | 1 - A4                 | C218b | on steering column                               |
| C175c | engine compartment, RH side, rear              | 1 - A4                 | C220a | on steering column                               |
| C181  | engine, top, RH side - 5.4L                    | 7 - A2                 | C220b | dash panel, LH side                              |
| C181  | engine, top, RH side - 5.4L                    | 8 - B6                 | C228a | dash panel, LH side                              |
| C181  | engine, top, RH side - 6.8L                    | 11 - B6                | C228b | dash panel, center                               |
| C182  | engine, top, RH side - 5.4L                    | 8 - B6                 | C233  | behind dash panel, LH side, near steering column |
| C182  | engine, top, RH side - 6.8L                    | 11 - A4                | C250  | on steering column                               |
| C183  | engine, top, RH side - 5.4L                    | 8 - A6                 | C251  | under dash panel, LH side                        |
| C183  | engine, top, RH side - 6.8L                    | 11 - A3                | C256  | dash panel, RH side                              |
| C184  | engine, top, RH side - 5.4L                    | 8 - A6                 | C257  | on clutch pedal support                          |
| C184  | engine, top, RH side - 6.8L                    | 11 - A3                | C258  | in Central Junction Box (CJB)                    |
| C185  | engine, top, LH side - 5.4L                    | 7 - A5                 | C264  | under dash panel, RH side                        |
| C185  | engine, top, RH side - 6.8L                    | 11 - A2                | C265  | in dash panel, center                            |
| C186  | engine, top, LH side - 6.8L                    | 10 - B3                | C270a | under dash panel, LH side                        |
| C186  | engine, top, LH side - 5.4L                    | 7 - A5                 | C270b | under dash panel, LH side                        |
| C187  | engine, top, LH side - 5.4L                    | 7 - B6                 | C270c | under dash panel, LH side                        |
| C187  | engine, top, LH side - 6.8L                    | 10 - A3                | C270d | under dash panel, LH side                        |
| C188  | engine, top, LH side - 6.8L                    | 10 - A7                | C270e | under dash panel, LH side                        |
| C188  | engine, top, LH side - 5.4L                    | 7 - B6                 | C270f | under dash panel, LH side                        |
| C191  | front of engine, top, center - 6.8L            | 10 - A2                | C270g | under dash panel, LH side                        |
| C192  | engine compartment, LH side, rear              | 6 - E7                 | C270h | under dash panel, LH side                        |
| C192  | engine compartment, LH side, front - 5.4L      | 7 - D7                 | C270i | under dash panel, LH side                        |
| C194  | engine, top - 5.4L                             | 7 - B3                 | C270j | under dash panel, LH side                        |
| C194  | engine, top, on front of LH valve cover - 6.8L | 10 - F3                | C270k | under dash panel, LH side                        |
| C196  | engine compartment, front, LH side - Diesel    | 3 - E5                 | C278  | on brake pedal support                           |
| C197a | engine, bottom, RH side - 5.4L                 | 8 - E5                 | C281a | under dash panel, RH side                        |
| C197b | engine, bottom, RH side - 5.4L                 | 8 - E6                 | C281b | under dash panel, RH side                        |
| C202a | on steering column                             | 18 - D7                | C284  | dash panel, LH side                              |
| C202b | on steering column                             | 18 - A5                | C286  | dash panel, top                                  |
| C203  | dash panel, center                             | 16 - B7                | C289  | under dash panel, RH side                        |
| C205a | dash panel, LH side, near steering column      | 16 - C8                | C290a | dash panel, center                               |
| C205b | dash panel, LH side, near steering column      | 16 - D8                | C291  | under dash panel, LH side                        |
| C210  | under dash panel, RH side                      | 16 - E2                | C294a | in dash panel                                    |
| C211  | engine compartment, LH side, rear              | 16 - F7                | C294b | in dash panel                                    |
|       |                                                |                        | C294c | in dash panel                                    |

C175a-C294c

| Connectors |                                                     | View 151-*/coordinates |  |
|------------|-----------------------------------------------------|------------------------|--|
|            | Location                                            |                        |  |
| C294d      | in dash panel                                       | 15 - E6                |  |
| C300       | behind dash panel, RH side                          | 16 - E1                |  |
| C301       | Rear of cab                                         | 28 - E7                |  |
| C312       | vehicle interior, rear                              | 28 - B5                |  |
| C320       | driver seat, LH side                                | 20 - F3                |  |
| C321       | under passenger seat, RH side                       | 21 - D2                |  |
| C323       | seat belt buckle, driver side                       | 20 - D6                |  |
| C330       | under passenger seat, RH side                       | 21 - C3                |  |
| C334       | under passenger seat, RH side                       | 21 - F2                |  |
| C335       | under passenger seat, RH side                       | 21 - E2                |  |
| C340       | under passenger seat, RH side                       | 19 - A7                |  |
| C350a      | on transfer case                                    | 14 - C6                |  |
| C350b      | on transfer case                                    | 14 - F4                |  |
| C357       | under driver seat                                   | 20 - F5                |  |
| C359       | under driver seat                                   | 20 - C2                |  |
| C360       | in driver seat                                      | 20 - E7                |  |
| C364       | driver seat                                         | 20 - E2                |  |
| C365       | driver seat                                         | 20 - E2                |  |
| C369       | driver seat, LH side                                | 20 - B6                |  |
| C408       | vehicle rear end                                    | 31 - A6                |  |
| C410       | vehicle rear end                                    | 31 - A6                |  |
| C411       | vehicle rear end                                    | 31 - A6                |  |
| C422       | main chassis side member, vehicle rear end, RH side | 31 - A6                |  |
| C423       | main chassis side member, vehicle rear end, LH side | 31 - A7                |  |
| C433       | vehicle rear end                                    | 31 - D6                |  |
| C434       | vehicle underbody, LH side, by axle                 | 31 - A3                |  |
| C435       | vehicle underbody, LH side, by axle                 | 31 - D5                |  |
| C438       | vehicle rear end, center                            | 29 - F3                |  |
| C450       | vehicle underbody, LH side, by axle                 | 31 - C4                |  |
| C451       | vehicle rear end, LH side                           | 29 - B1                |  |
| C452       | vehicle rear end                                    | 29 - B2                |  |
| C455       | on differential                                     | 31 - B4                |  |
| C461       | vehicle rear end, RH side                           | 29 - E5                |  |
| C462       | vehicle rear end                                    | 29 - B2                |  |
| C465       | vehicle rear end                                    | 31 - A6                |  |
| C494       | vehicle underbody                                   | 29 - D7                |  |
| C495       | vehicle underbody                                   | 28 - E5                |  |
| C500       | in driver door                                      | 22 - B1                |  |
| C504a      | in driver door, top                                 | 22 - A6                |  |
| C504b      | in driver door, top                                 | 22 - B7                |  |
| C505       | in driver door, top                                 | 22 - A3                |  |
| C510       | in driver door                                      | 22 - F5                |  |
| C521       | driver's door (exterior)                            | 22 - B7                |  |
| C523       | in driver door                                      | 22 - D7                |  |
| C524       | in driver door                                      | 22 - D7                |  |
| C525       | in driver door                                      | 22 - C2                |  |
| C526       | in driver door                                      | 22 - E2                |  |
| C527       | in driver door                                      | 22 - C7                |  |
| C601       | front of passenger door exterior                    | 23 - B2                |  |
| C602       | in passenger door                                   | 23 - C7                |  |
| C603       | in passenger door                                   | 23 - D7                |  |
| C604       | in passenger door, top of door trim                 | 23 - A3                |  |
| C605       | in passenger door, top of door trim                 | 23 - A4                |  |
| C608       | in passenger door                                   | 23 - D1                |  |
| C612       | in passenger door                                   | 23 - E1                |  |
| C701       | in LH rear door, top - Crew cab                     | 26 - A3                |  |
| C702       | in LH rear door - Super cab                         | 24 - C6                |  |
| C703       | in LH rear door                                     | 26 - C6                |  |
| C704       | in LH rear door                                     | 26 - E2                |  |
| C715       | in LH rear door                                     | 26 - B2                |  |
| C801       | in RH rear door                                     | 27 - C7                |  |
| C802       | in RH rear door - Super cab                         | 25 - C2                |  |
| C802       | in RH rear door - Crew cab                          | 28 - A5                |  |
| C803       | in RH rear door                                     | 27 - B2                |  |
| C804       | in RH rear door                                     | 27 - D7                |  |
| C820       | in RH rear door                                     | 27 - E7                |  |
| C904       | in roof panel, rear center                          | 29 - A3                |  |
| C906       | roof, RH side, front                                | 28 - B1                |  |
| C907       | roof, LH side, front                                | 28 - B1                |  |
| C909       | overhead console                                    | 28 - C1                |  |
| C911       | roof, front, center                                 | 28 - B1                |  |
| C921a      | in roof panel, above rear seats                     | 28 - A4                |  |
| C931       | in roof panel, front, center                        | 28 - A4                |  |
| C932       | in roof panel, above rear seats                     | 28 - A6                |  |

C294d-C932

| Connectors | Location                                                      | View 151-*/coordinates |        |                                                     |         |
|------------|---------------------------------------------------------------|------------------------|--------|-----------------------------------------------------|---------|
| C970       | roof, front                                                   | 28 - A4                | C1100a | engine compartment, RH side                         | 1 - D1  |
| C971       | roof, front                                                   | 28 - A3                | C1100b | engine compartment, RH side                         | 1 - D1  |
| C972       | roof, front                                                   | 28 - A3                | C1107  | transmission, rear                                  | 14 - C5 |
| C973       | roof, front                                                   | 28 - A2                | C1119  | engine compartment, RH side                         | 30 - E4 |
| C974       | roof, front                                                   | 28 - A1                | C1126  | front of vehicle, RH side                           | 1 - E2  |
| C1000      | in Battery Junction Box (BJB)                                 | 1 - B7                 | C1127  | front of vehicle, LH side                           | 1 - E7  |
| C1008      | in Battery Junction Box (BJB)                                 | 1 - B7                 | C1129  | in Auxiliary relay box 3                            | 1 - A7  |
| C1010      | engine compartment, rear, LH side - Gasoline                  | 6 - F6                 | C1147  | front of vehicle, LH side                           | 1 - E7  |
| C1010      | engine compartment, rear, LH side - Diesel                    | 5 - E6                 | C1148  | engine compartment, RH side                         | 33 - C6 |
| C1011      | in Battery Junction Box (BJB)                                 | 1 - B7                 | C1158  | engine, top, front - 6.0L Diesel                    | 12 - E2 |
| C1019      | engine compartment, RH side, rear                             | 30 - A3                | C1159  | engine compartment - Diesel                         | 5 - A6  |
| C1021      | front of vehicle, LH side                                     | 1 - D7                 | C1159  | engine compartment                                  | 6 - A7  |
| C1023      | front of vehicle, LH side                                     | 1 - E7                 | C1171  | in Battery Junction Box (BJB)                       | 1 - B7  |
| C1025      | engine compartment, LH side, rear - Gasoline                  | 6 - E4                 | C1172  | in Battery Junction Box (BJB)                       | 1 - B7  |
| C1025      | engine compartment, LH side, rear                             | 1 - B7                 | C1173  | in Auxiliary relay box 3                            | 1 - A7  |
| C1025      | engine compartment, LH side, rear - Diesel                    | 5 - E4                 | C1177  | on transfer case, top                               | 14 - D7 |
| C1026      | engine compartment, RH side, rear                             | 30 - A2                | C1181  | engine, top, RH side - 6.0L Diesel                  | 12 - D1 |
| C1031      | engine compartment, RH side, rear                             | 30 - B1                | C1182  | engine, top, LH side - 6.0L Diesel                  | 13 - A4 |
| C1032      | engine compartment, RH side, rear                             | 30 - D7                | C1183  | engine, top, RH side - 6.0L Diesel                  | 13 - F3 |
| C1035      | Engine compartment, LH side, rear                             | 2 - A6                 | C1184  | engine, top, LH side - 6.0L Diesel                  | 12 - D7 |
| C1035      | Engine compartment, LH side, rear - Diesel                    | 3 - A7                 | C1185  | engine, top, RH side - 6.0L Diesel                  | 13 - F2 |
| C1041      | front of vehicle, RH side                                     | 1 - F3                 | C1186  | engine, top, LH side - 6.0L Diesel                  | 12 - B7 |
| C1043      | front of vehicle, RH side                                     | 1 - F2                 | C1187  | in Battery Junction Box (BJB)                       | 1 - B7  |
| C1045      | engine compartment, LH side, front                            | 1 - E7                 | C1188  | in Battery Junction Box (BJB)                       | 1 - B7  |
| C1046      | engine compartment, RH side                                   | 1 - C1                 | C1189  | throttle body, LH side - 5.4L                       | 8 - A5  |
| C1062      | engine, front, near bottom - 6.0L Diesel                      | 13 - D7                | C1189  | throttle body, RH side - 6.8L                       | 10 - A5 |
| C1064      | engine, front, LH side, near thermostat housing - 6.0L Diesel | 12 - E2                | C1195  | engine compartment, rear                            | 1 - C1  |
| C1073      | engine, RH side - 5.4L                                        | 8 - A2                 | C1204  | engine, top, LH side - 6.8L                         | 10 - A7 |
| C1073      | engine, RH side - 6.8L                                        | 10 - A6                | C1205  | engine, top, LH side - 6.8L                         | 10 - B7 |
| C1078      | engine, front, RH side - 5.4L                                 | 7 - C2                 | C1206  | engine, top, LH side - 6.8L                         | 10 - C6 |
| C1078      | engine, front, RH side - 6.8L                                 | 10 - C1                | C1207  | engine, top, LH side - 6.8L                         | 10 - C6 |
| C1080      | vehicle underbody, LH side, near transmission                 | 32 - C2                | C1210  | engine compartment, LH side, on air cleaner housing | 3 - D7  |
| C1081      | engine compartment, RH side                                   | 30 - C7                | C1221  | engine, top, RH rear - 5.4L                         | 8 - E3  |
| C1087      | engine compartment, rear                                      | 30 - B7                | C1235  | in Battery Junction Box (BJB)                       | 3 - B8  |
|            |                                                               |                        | C1236  | engine, LH side                                     | 12 - A6 |
|            |                                                               |                        | C1244  | engine, top, rear - 6.0L Diesel                     | 12 - A7 |
|            |                                                               |                        | C1247  | engine compartment, RH side                         | 30 - C1 |
|            |                                                               |                        | C1249a | engine compartment, LH side - Diesel                | 3 - D7  |
|            |                                                               |                        | C1249b | engine compartment, LH side - Diesel                | 3 - D7  |

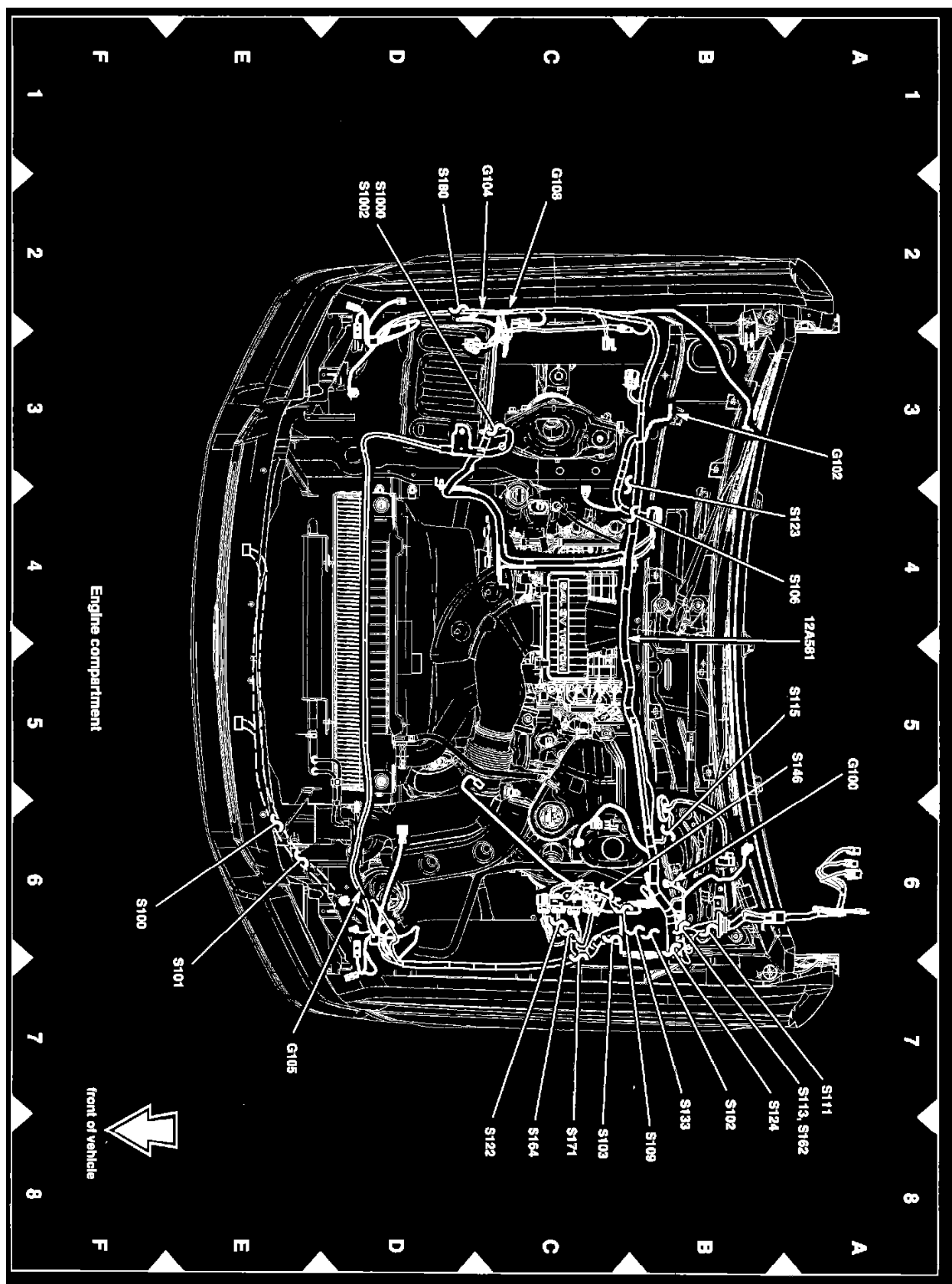
| Connectors |                                                           | View 151-*/coordinates |        |                                                     |         |
|------------|-----------------------------------------------------------|------------------------|--------|-----------------------------------------------------|---------|
| Location   |                                                           |                        |        |                                                     |         |
| C1251a     | engine, upper, front                                      | 33 - B1                | C1369  | engine, RH side, front - 5.4L                       | 7 - A1  |
| C1251a     | engine, lower, front, RH side - 6.0L with dual generators | 33 - D3                | C1369  | engine, RH side, front - 5.4L                       | 8 - C7  |
| C1251c     | engine, lower, front, RH side - 6.0L with dual generators | 33 - E3                | C1370  | engine, LH side, front - 5.4L                       | 7 - F3  |
| C1251c     | engine, upper, front                                      | 33 - B1                | C1381a | engine compartment, left fender - Diesel            | 5 - B7  |
| C1271      | engine, near camshaft pulley, LH side - 6.0L Diesel       | 12 - F3                | C1381b | engine compartment, left fender - Diesel            | 5 - B7  |
| C1273a     | engine, top, front, on RH valve cover - 6.0L Diesel       | 13 - C7                | C1381c | engine compartment, left fender - Diesel            | 5 - B7  |
| C1273b     | engine, top, front, on RH valve cover - 6.0L Diesel       | 13 - C7                | C1385  | vehicle underbody, RH side, on transmission         | 14 - C7 |
| C1275      | engine, LH side, bottom - 6.0L Diesel                     | 12 - F4                | C1386  | vehicle underbody, LH side, near transmission       | 14 - C2 |
| C1278      | front of vehicle, LH side                                 | 1 - D8                 | C1387  | transmission, front                                 | 14 - B5 |
| C1281      | front of vehicle, RH side                                 | 1 - E2                 | C1388a | engine, top, LH side - 6.0L Diesel                  | 12 - B8 |
| C1282      | engine compartment, LH side, rear - Diesel                | 5 - E6                 | C1388b | engine, top, LH side - 6.0L Diesel                  | 12 - B8 |
| C1284      | front of vehicle, LH side                                 | 1 - E7                 | C1388c | engine, top, LH side - 6.0L Diesel                  | 12 - C8 |
| C1285      | front of vehicle, RH side                                 | 1 - F3                 | C1389  | engine, top, near throttle body - 6.0L Diesel       | 13 - A6 |
| C1298      | engine compartment, LH side - Diesel                      | 5 - E5                 | C1390  | engine, top - 6.0L Diesel                           | 12 - A5 |
| C1308      | engine compartment, RH side                               | 30 - D8                | C1392  | vehicle underbody, LH side, near transmission       | 32 - A1 |
| C1312      | engine, top, RH side - 6.0L Diesel                        | 13 - E2                | C1413  | engine, front, LH side - 6.0L Diesel                | 12 - F7 |
| C1313      | engine, top, LH side - 6.0L Diesel                        | 13 - D1                | C1414  | engine, front, RH side - 6.0L Diesel                | 13 - D7 |
| C1328      | vehicle underbody, LH side, near transmission             | 32 - B1                | C1443  | engine, top, RH side, front - 6.0L Diesel           | 13 - B7 |
| C1329      | in Battery Junction Box (BJB)                             | 1 - B7                 | C1444  | engine, rear - 5.4L                                 | 8 - D2  |
| C1360      | engine, top, on oil pump - 6.0L Diesel                    | 13 - D1                | C1445  | engine compartment, LH rear                         | 16 - F5 |
| C1366      | engine, upper, on front of RH cylinder head - 5.4L        | 7 - E2                 | C1446  | vehicle underbody, LH side, front                   | 31 - E6 |
| C1366      | engine, upper, on front of RH cylinder head - 6.8L        | 10 - C1                | C1447  | engine, RH side, rear - 6.8L                        | 11 - F2 |
| C1367      | engine, upper, on front of LH cylinder head - 5.4L        | 7 - E6                 | C2003  | in LH front footwell                                | 16 - E5 |
| C1368      | engine, attached to throttle body - 5.4L                  | 8 - C1                 | C2008  | on steering column                                  | 16 - E6 |
| C1368      | engine, attached to throttle body - 6.0L Diesel           | 13 - B7                | C2015  | in footwell, driver side                            | 28 - F1 |
| C1368      | engine, attached to throttle body - 6.8L                  | 10 - A5                | C2031  | dash panel, center, bottom                          | 17 - D3 |
|            |                                                           |                        | C2033  | dash panel, center, bottom                          | 16 - A3 |
|            |                                                           |                        | C2035  | dash panel, LH side                                 | 16 - B5 |
|            |                                                           |                        | C2040  | on accelerator pedal support                        | 16 - E4 |
|            |                                                           |                        | C2041  | behind dash panel, center                           | 15 - E6 |
|            |                                                           |                        | C2047  | behind dash panel, center, in auxiliary relay box 1 | 16 - E4 |
|            |                                                           |                        | C2075  | in Central Junction Box (CJB)                       | 15 - A3 |
|            |                                                           |                        | C2089  | dash panel, LH side                                 | 16 - D8 |
|            |                                                           |                        | C2093  | dash panel, behind A/C control                      | 17 - E3 |
|            |                                                           |                        | C2099  | dash panel, center                                  | 15 - A6 |
|            |                                                           |                        | C2110  | in Central Junction Box (CJB)                       | 16 - F7 |
|            |                                                           |                        | C2113a | under dash panel, LH side                           | 28 - C1 |

C1251a-C2113a

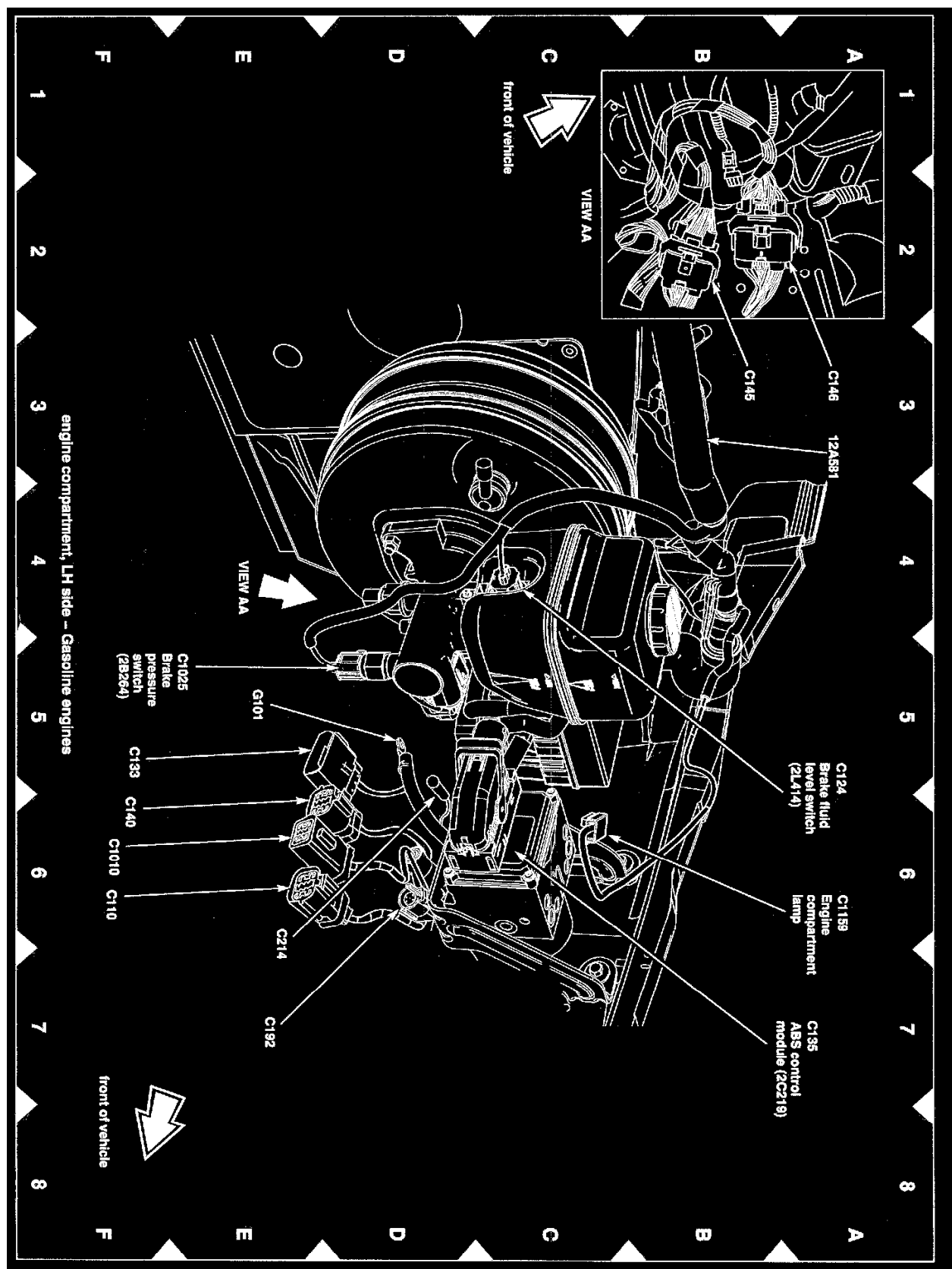
| Connectors |                                                  | Location | View 151-*/coordinates |
|------------|--------------------------------------------------|----------|------------------------|
| C2113b     | under dash panel, LH side                        | 28 - C1  |                        |
| C2113c     | under dash panel, LH side                        | 28 - C1  |                        |
| C2142a     | behind dash panel, LH side                       | 17 - D2  |                        |
| C2142b     | behind dash panel, center                        | 17 - E3  |                        |
| C2160      | in Central Junction Box (CJB)                    | 16 - F6  |                        |
| C2163      | in Central Junction Box (CJB)                    | 16 - E8  |                        |
| C2194      | behind dash panel, center                        | 16 - D3  |                        |
| C2207      | under dash panel, RH side                        | 16 - D1  |                        |
| C2255      | on steering column, LH side                      | 18 - B3  |                        |
| C2256      | behind dash panel, LH side, near steering column | 17 - E4  |                        |
| C2257      | in Central Junction Box (CJB)                    | 15 - A3  |                        |
| C2300      | dash panel, center                               | 15 - E6  |                        |
| C2301      | in Upfitter relay box                            | 16 - E3  |                        |
| C2302      | in Upfitter relay box                            | 16 - E3  |                        |
| C2303      | in Upfitter relay box                            | 16 - E3  |                        |
| C2304      | in Upfitter relay box                            | 16 - E3  |                        |
| C3007      | under driver seat                                | 28 - E5  |                        |
| C3015      | under passenger seat                             | 21 - F6  |                        |
| C3049      | under driver seat                                | 19 - A6  |                        |
| C3084      | vehicle exterior, LH side                        | 28 - F4  |                        |
| C3085      | vehicle exterior, LH side                        | 28 - F7  |                        |
| C3086      | vehicle exterior, RH side                        | 29 - D8  |                        |
| C3087      | vehicle exterior, RH side                        | 29 - E7  |                        |
| C3094      | vehicle underbody, on fuel tank                  | 31 - B3  |                        |
| C3095      | vehicle underbody, on fuel tank                  | 31 - C6  |                        |
| C4001      | truck bed                                        | 31 - C6  |                        |
| C4009      | rear bumper, LH side                             | 29 - E1  |                        |
| C4010      | rear bumper, LH side                             | 29 - F2  |                        |
| C4011      | rear bumper, RH side                             | 29 - E4  |                        |
| C4012      | rear bumper, RH side                             | 29 - E3  |                        |
| C4014      | RH A-pillar, behind trim panel                   | 16 - E2  |                        |
| C4015      | RH A-pillar, behind trim panel                   | 16 - E2  |                        |
| C4032      | vehicle rear end, RH side                        | 29 - B3  |                        |
| C4033      | vehicle underbody, LH side                       | 31 - A4  |                        |
| C4035      | vehicle rear end, LH side                        | 29 - A1  |                        |
| C4094      | truck bed, left fender, front                    | 28 - B7  |                        |
| C4095      | truck bed, left fender, rear                     | 28 - D8  |                        |
| C4096      | truck bed, right fender, front                   | 29 - B6  |                        |
| C4097      | truck bed, right fender, rear                    | 29 - E6  |                        |
| C4098      | vehicle rear end                                 | 29 - E3  |                        |
| C4099      | vehicle rear end                                 | 29 - E2  |                        |
| C4132      | vehicle underbody, LH frame rail                 | 31 - C2  |                        |
| C9013      | in roof panel, front                             | 28 - A3  |                        |



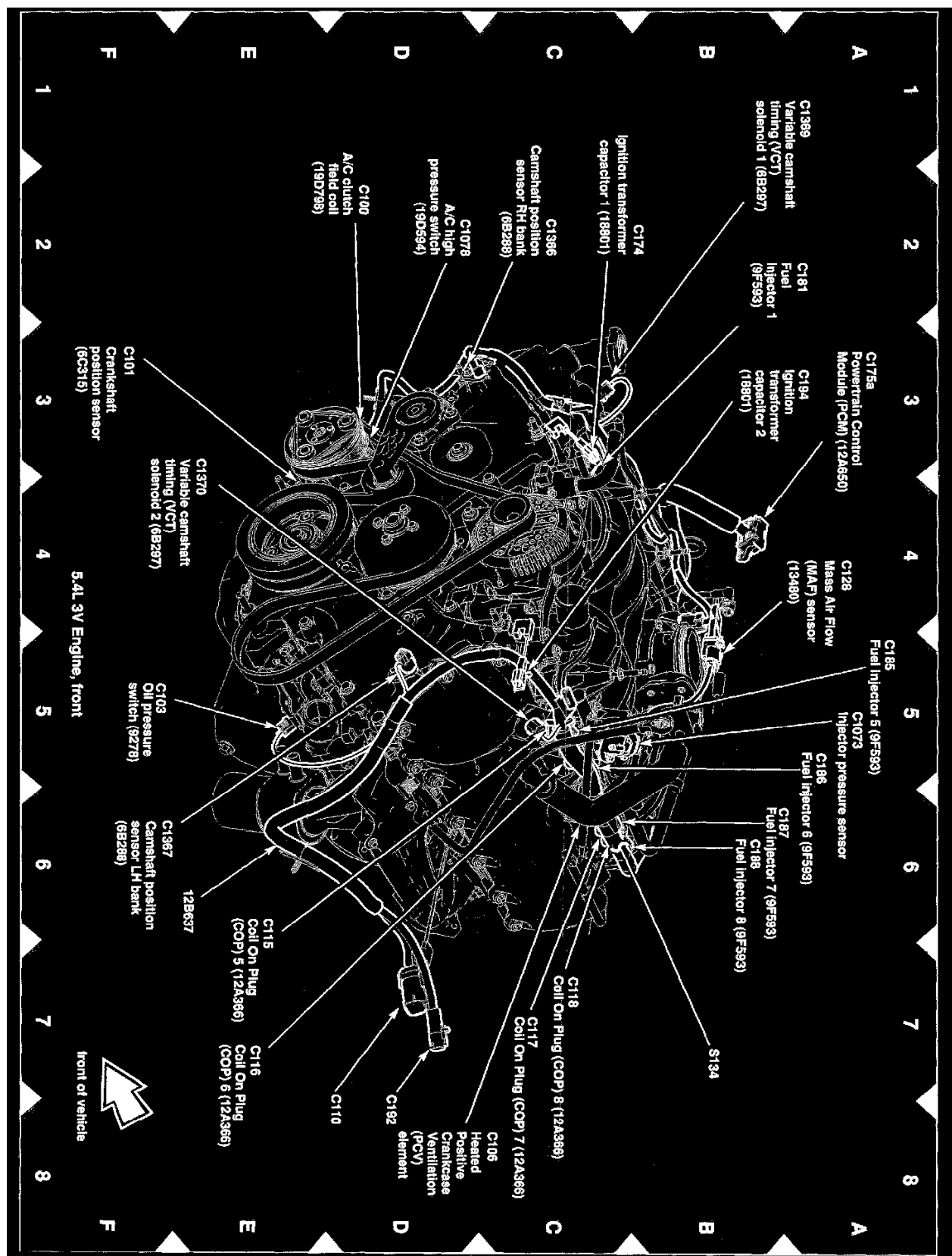




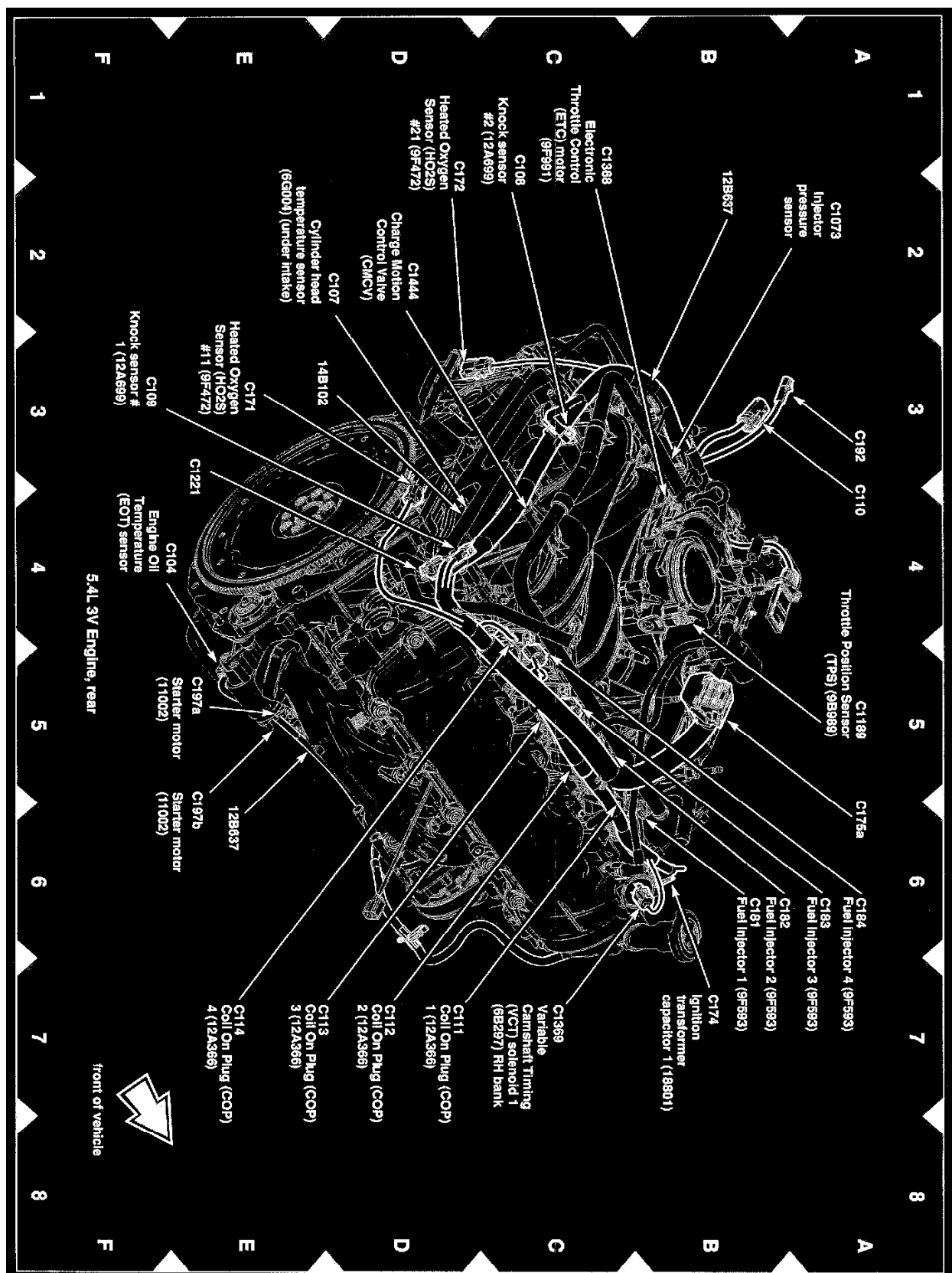
View 151-2 (Engine Compartment)



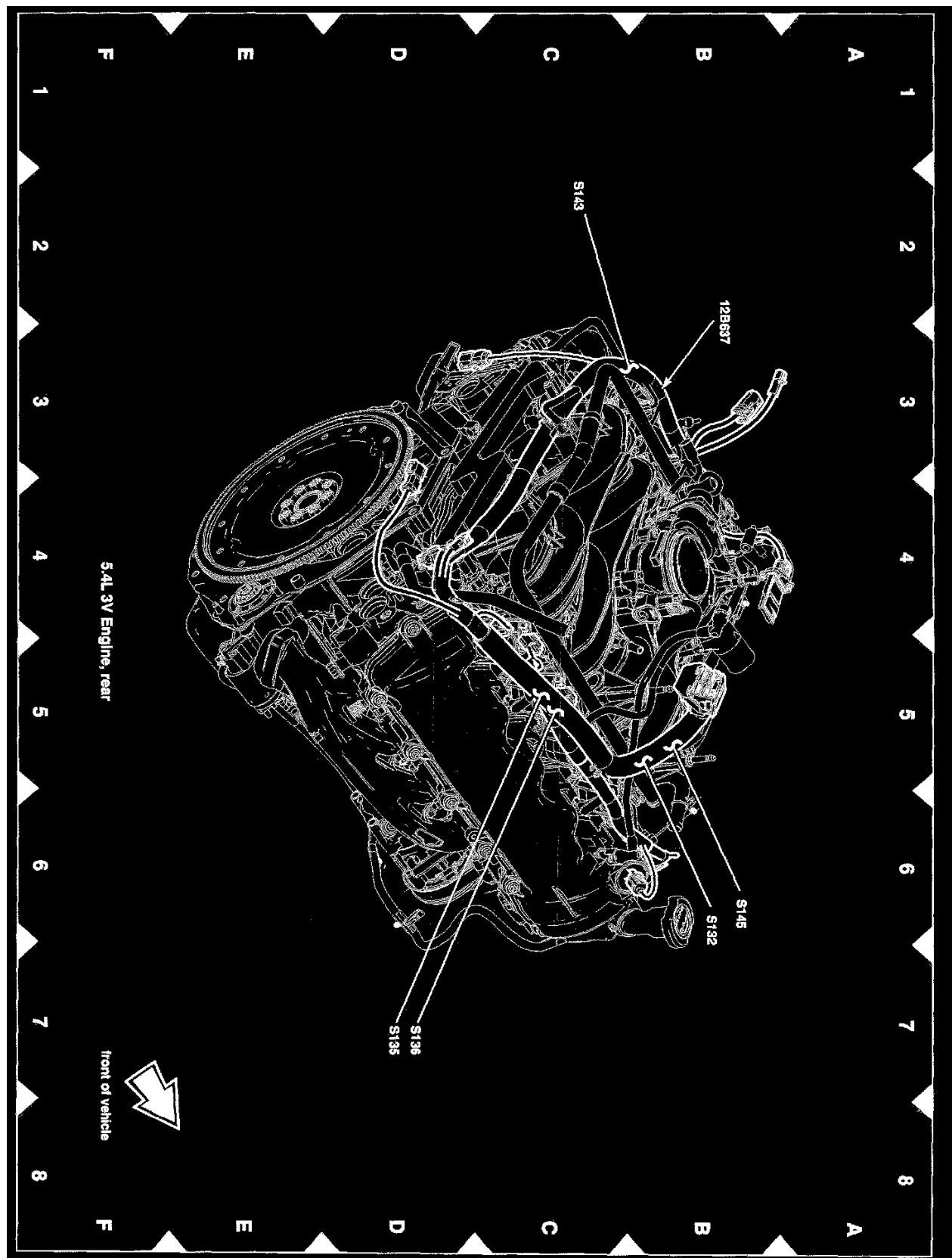
View 151-6 (Engine Compartment, LH Side)



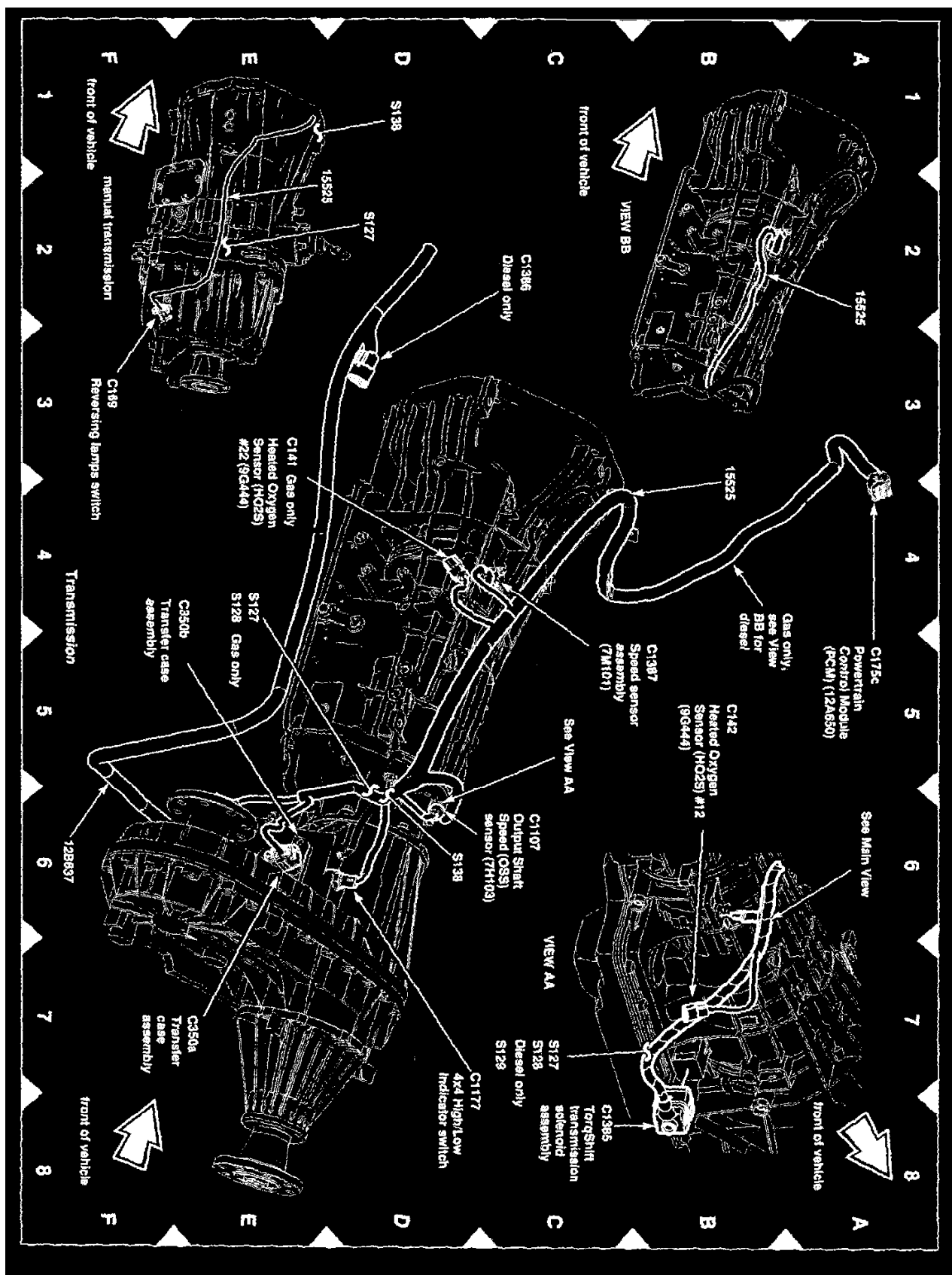
View 151-7 (Engine, Front)



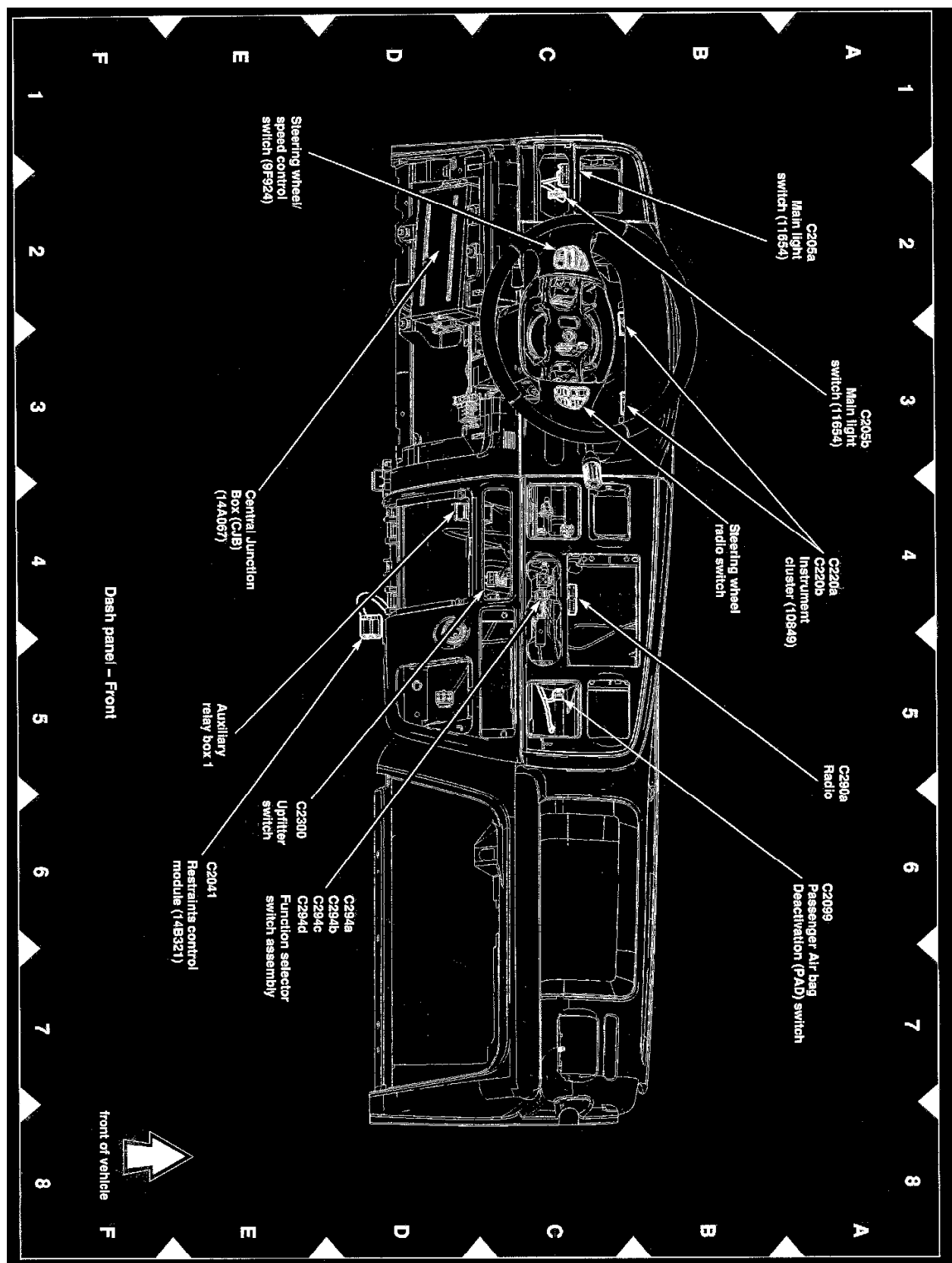
View 151-8 (Engine, Rear)



View 151-9 (Engine, Rear)



View 151-14 (Transmission)

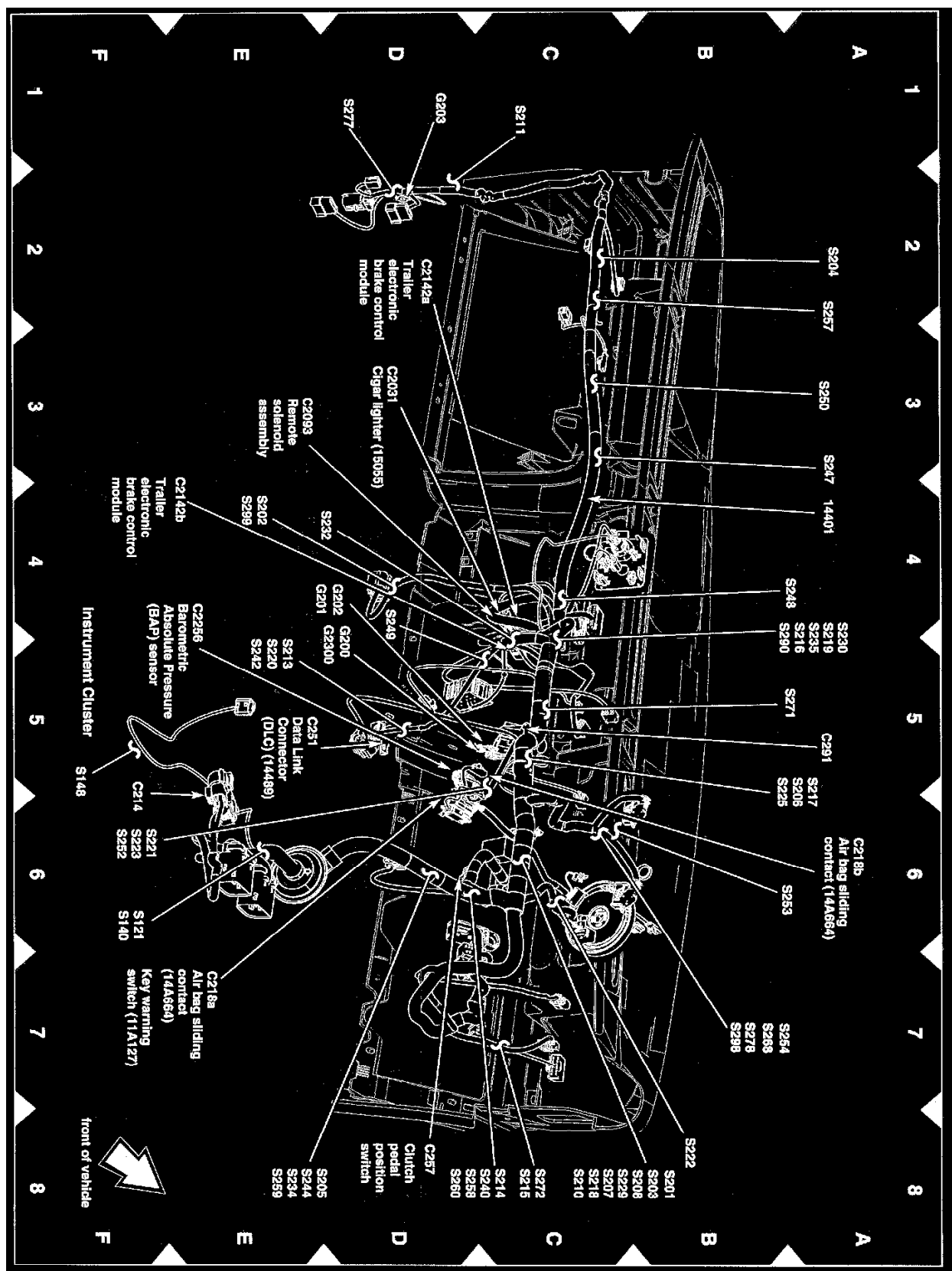


View 151-15 (Dash Panel - Front)

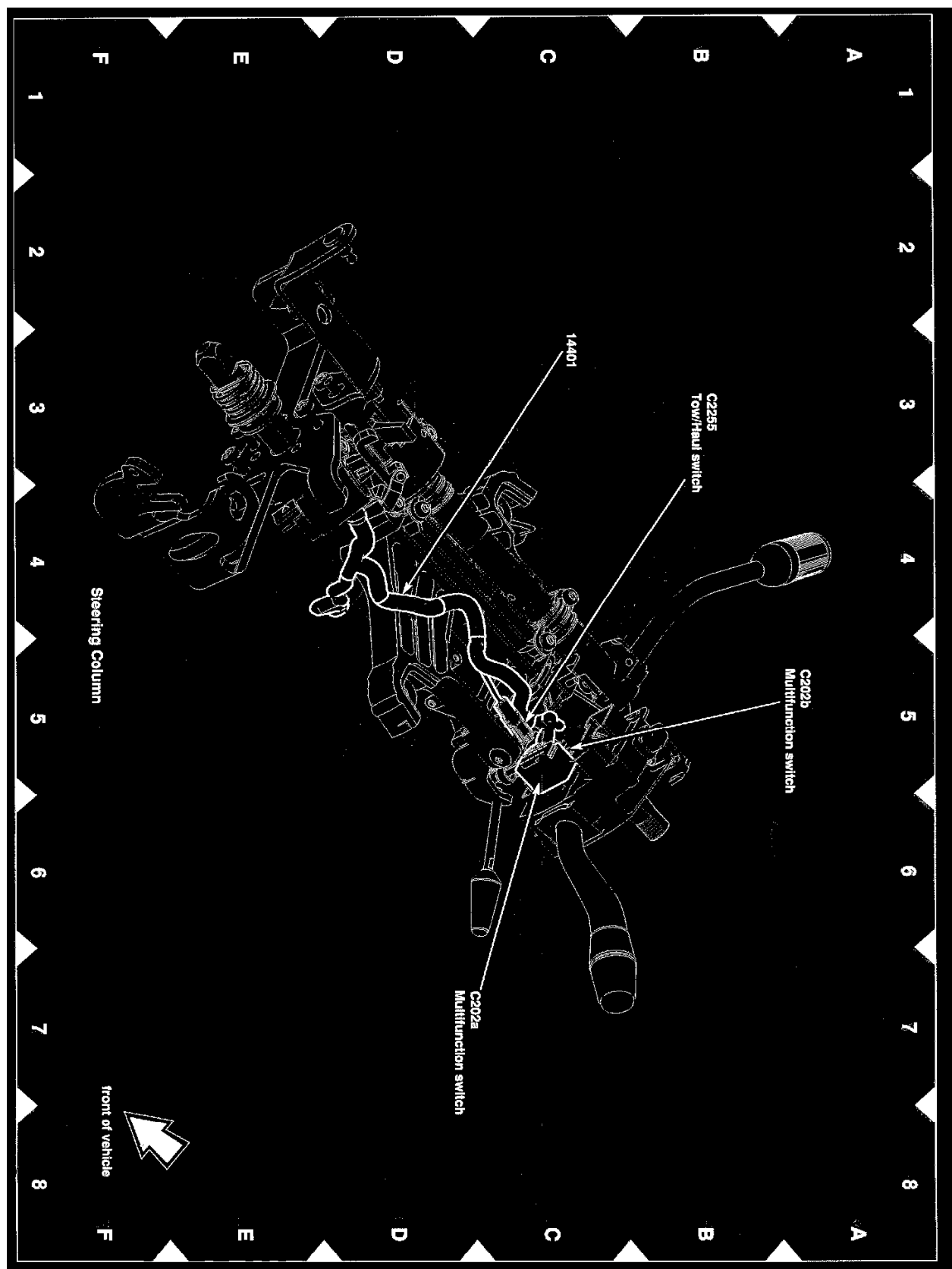




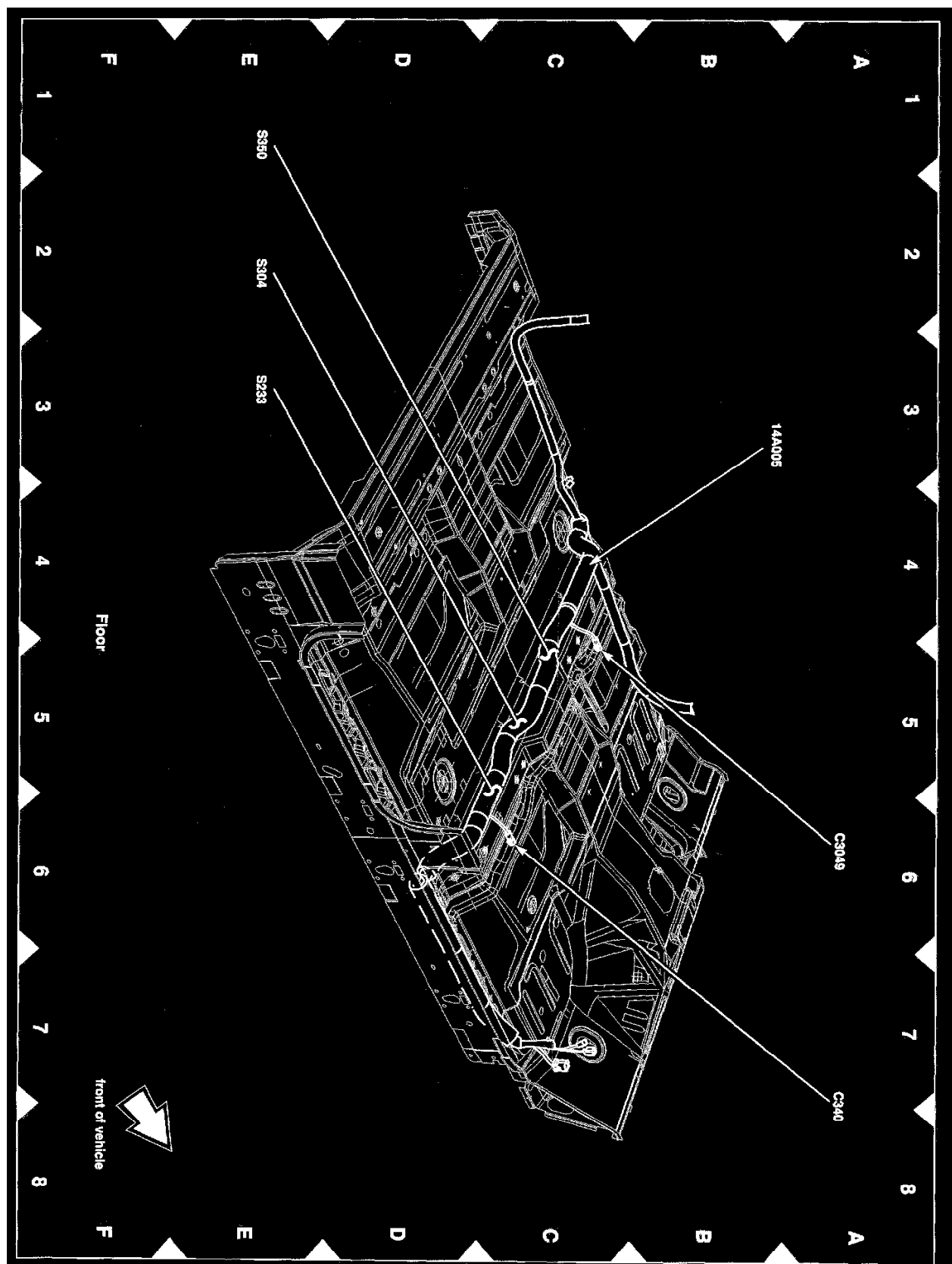
**View 151-16 (Instrument Panel)**



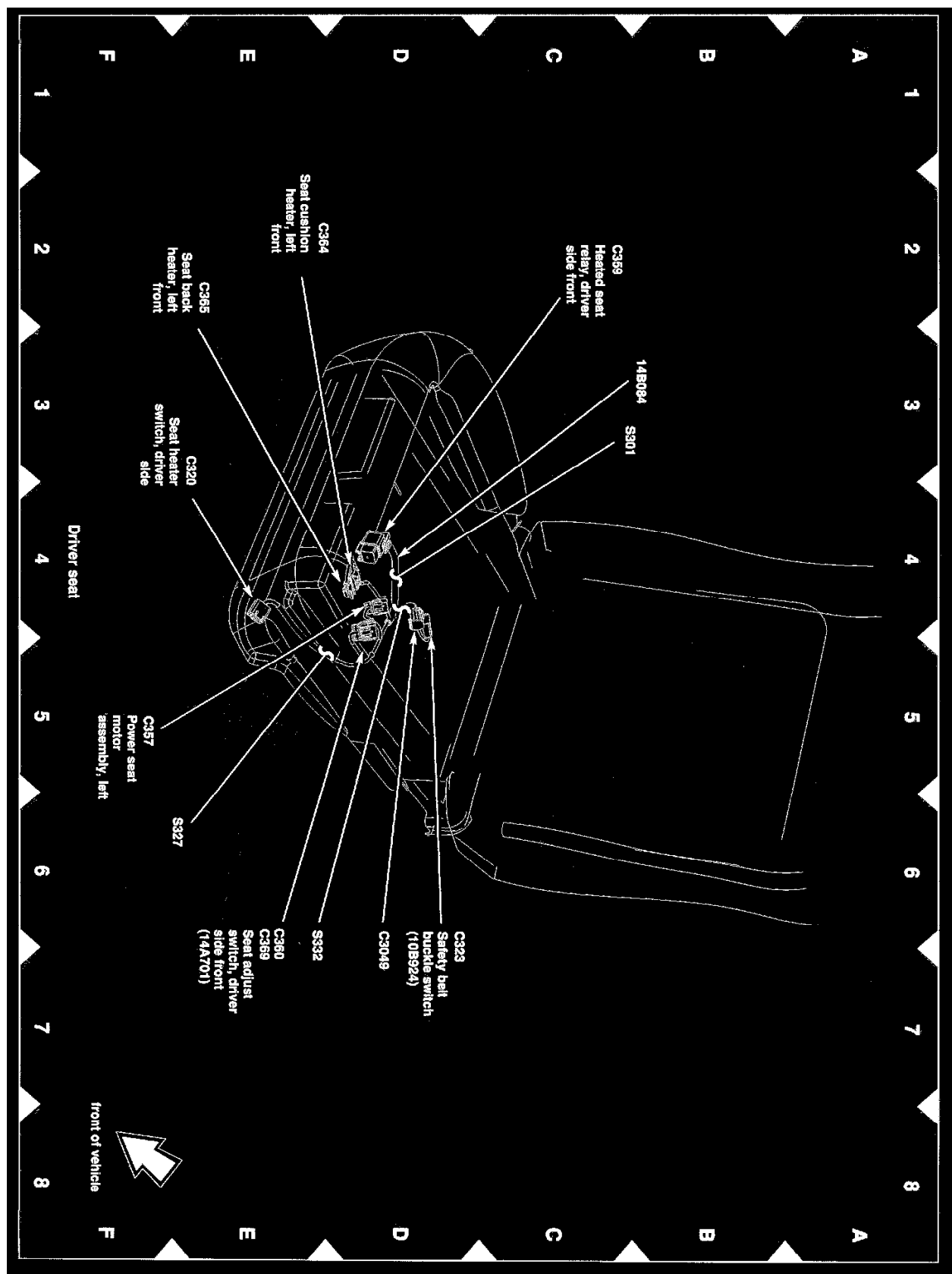
View 151-17 (Instrument Cluster)



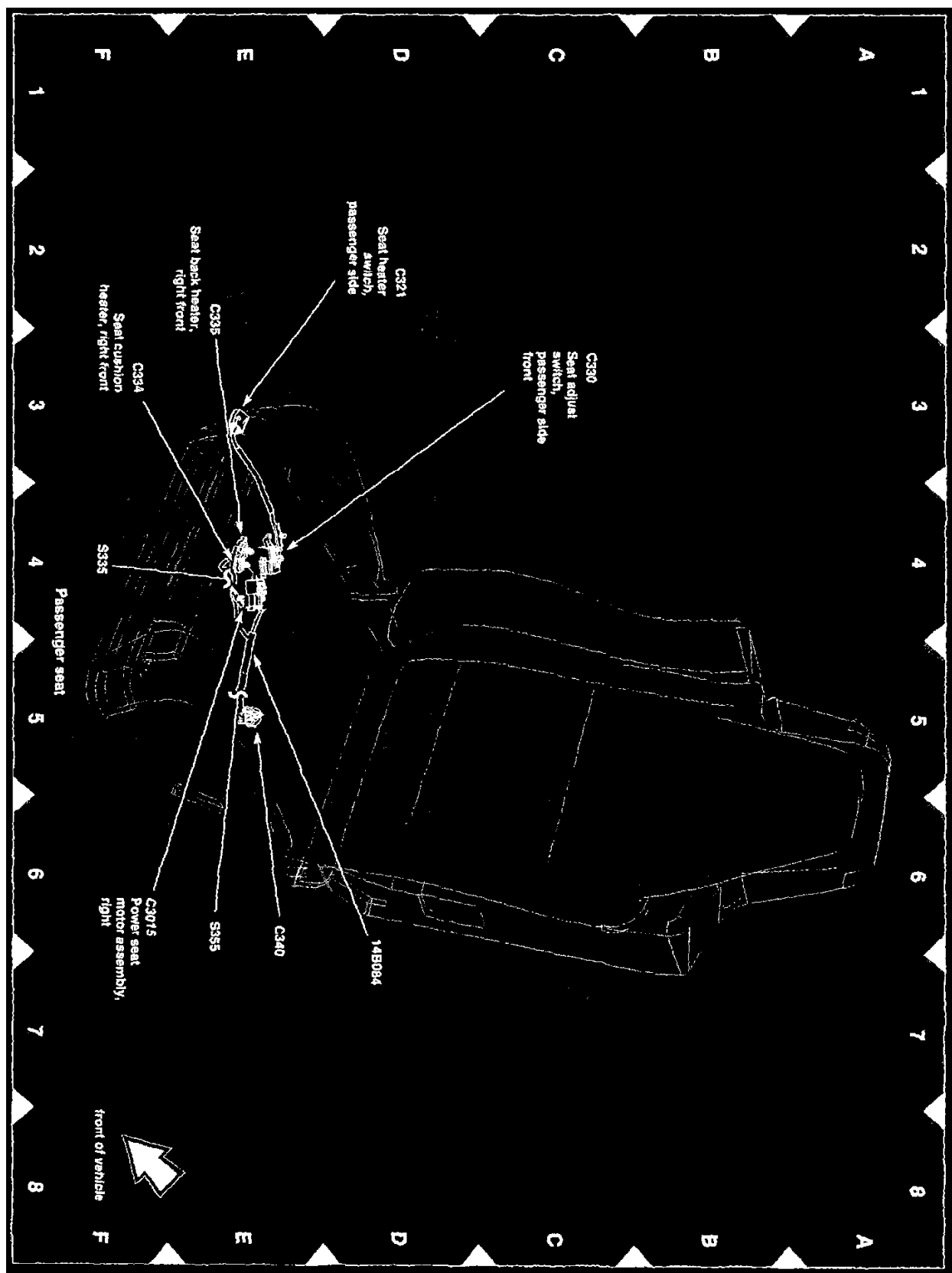
View 151-18 (Steering Column)



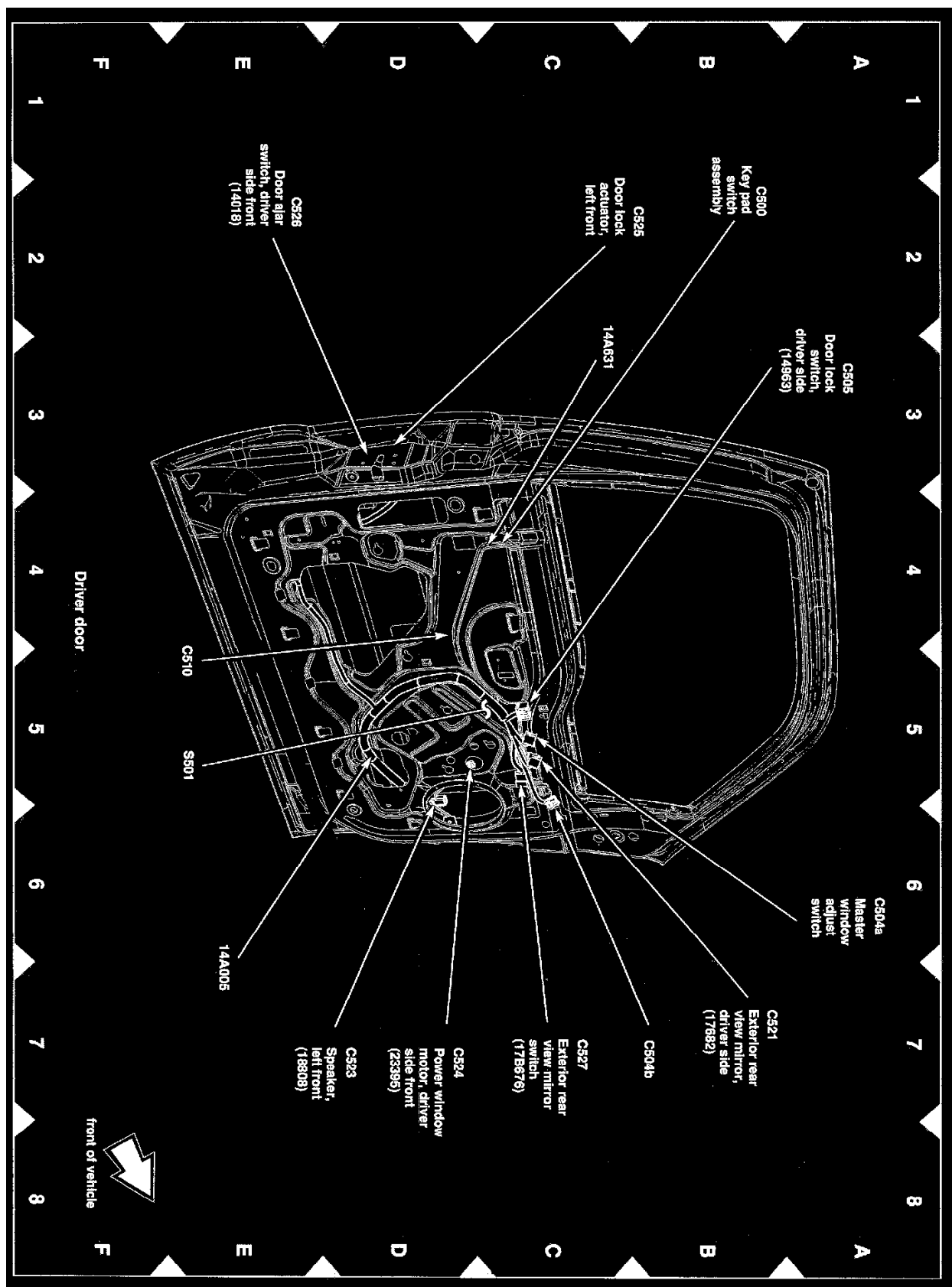
View 151-19 (Floor)



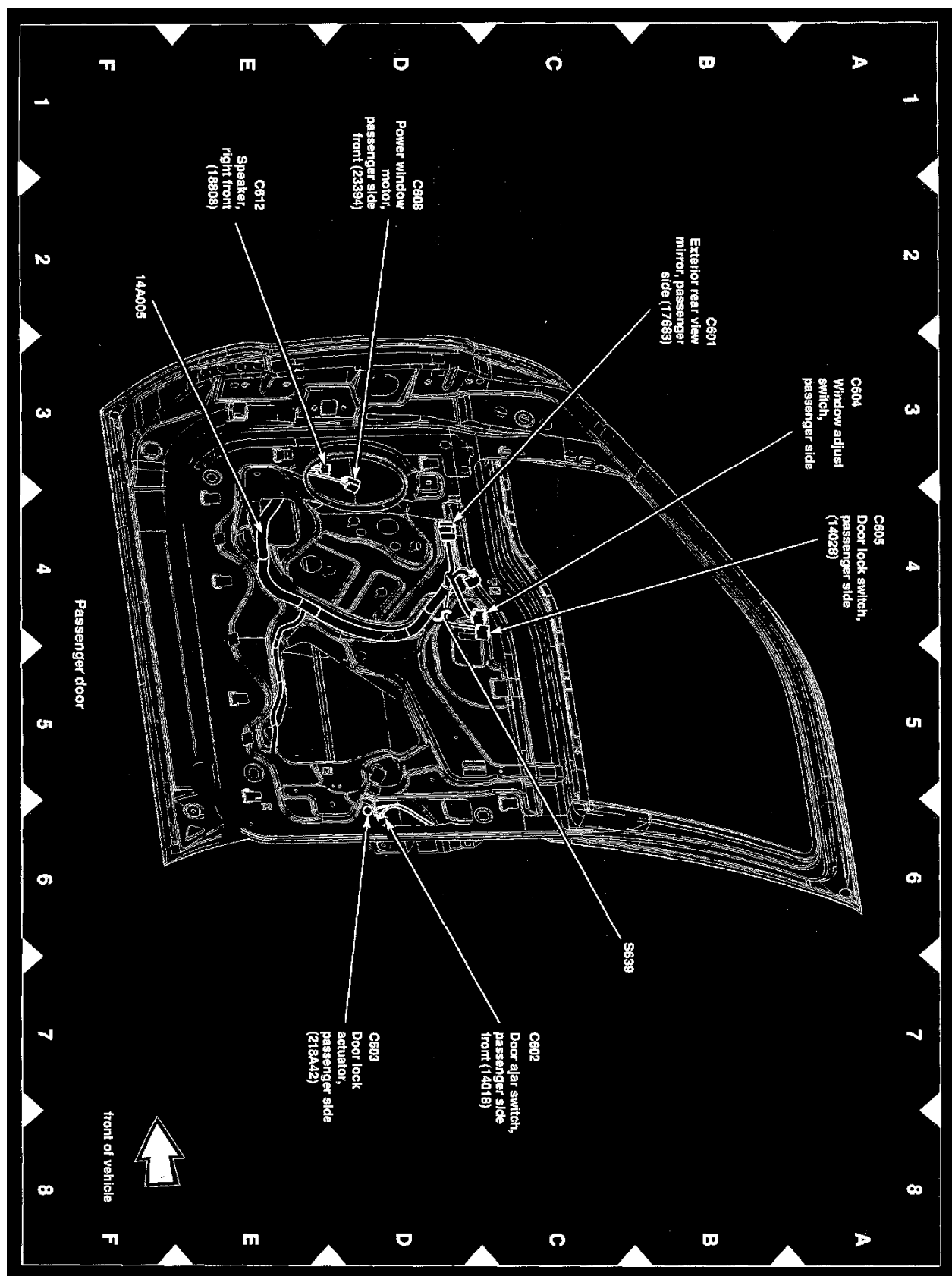
View 151-20 (Driver Seat)



View 151-21 (Passenger Seat)

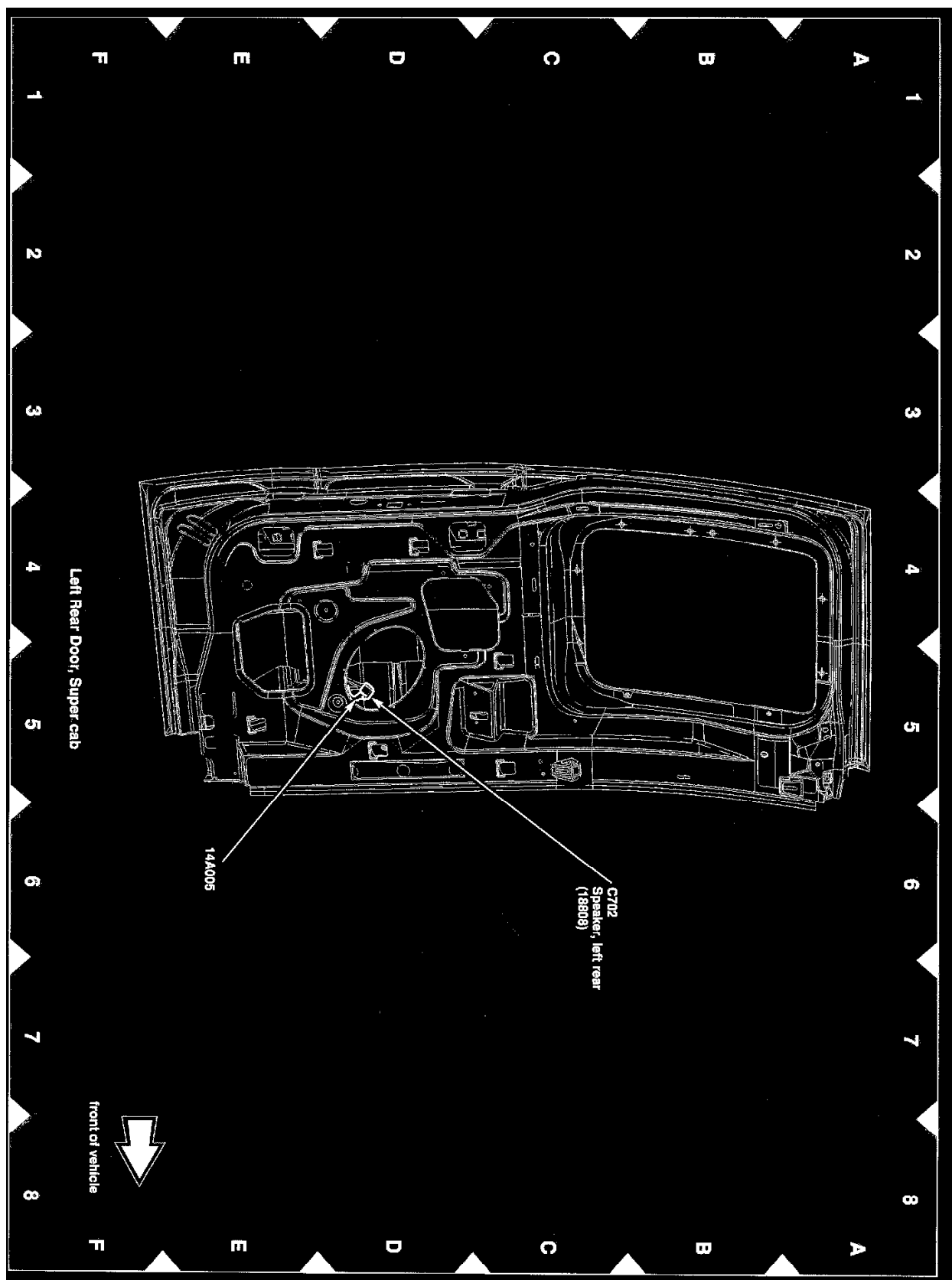


View 151-22 (Driver Door)

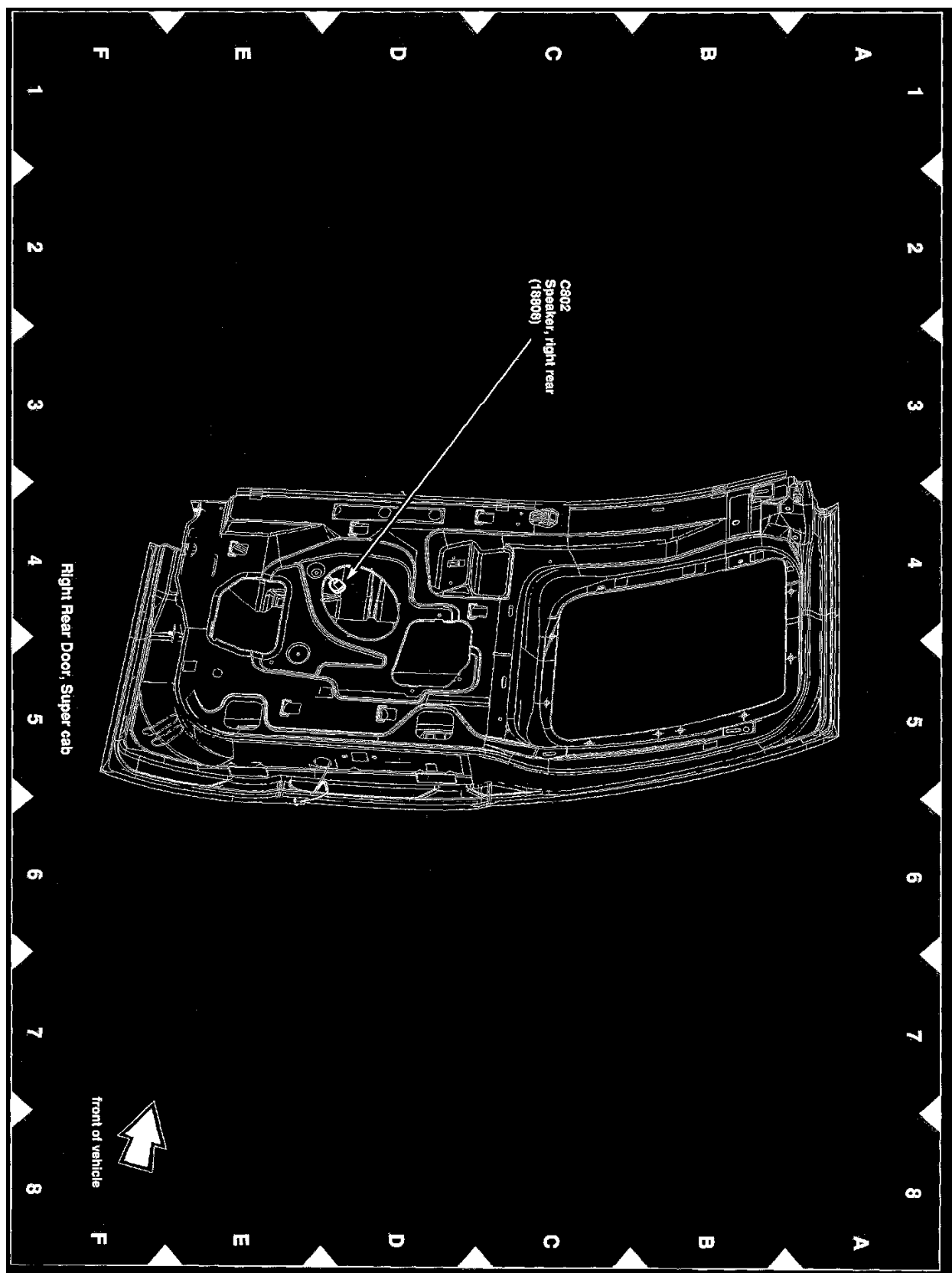


View 151-23 (Passenger Door)

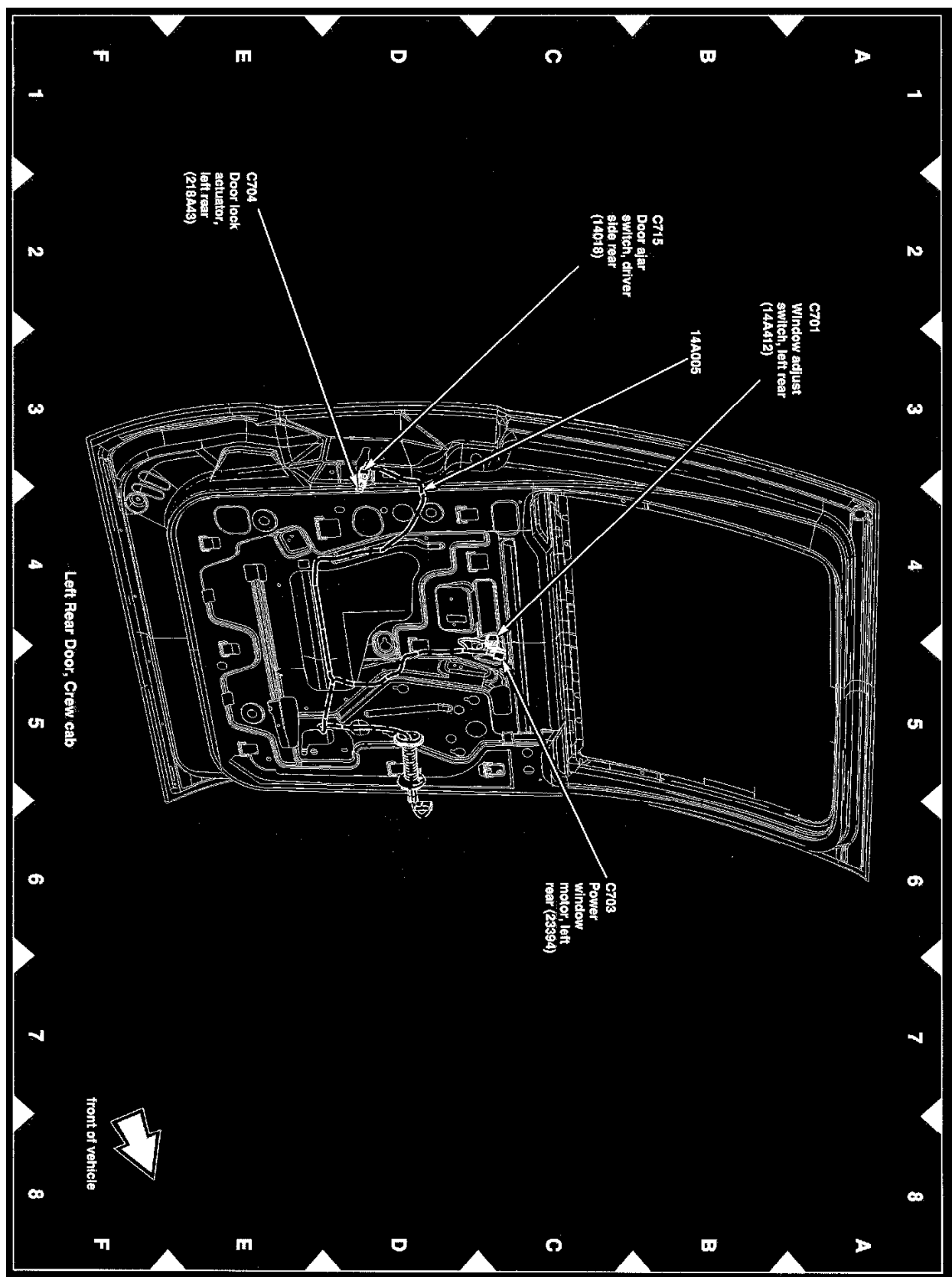




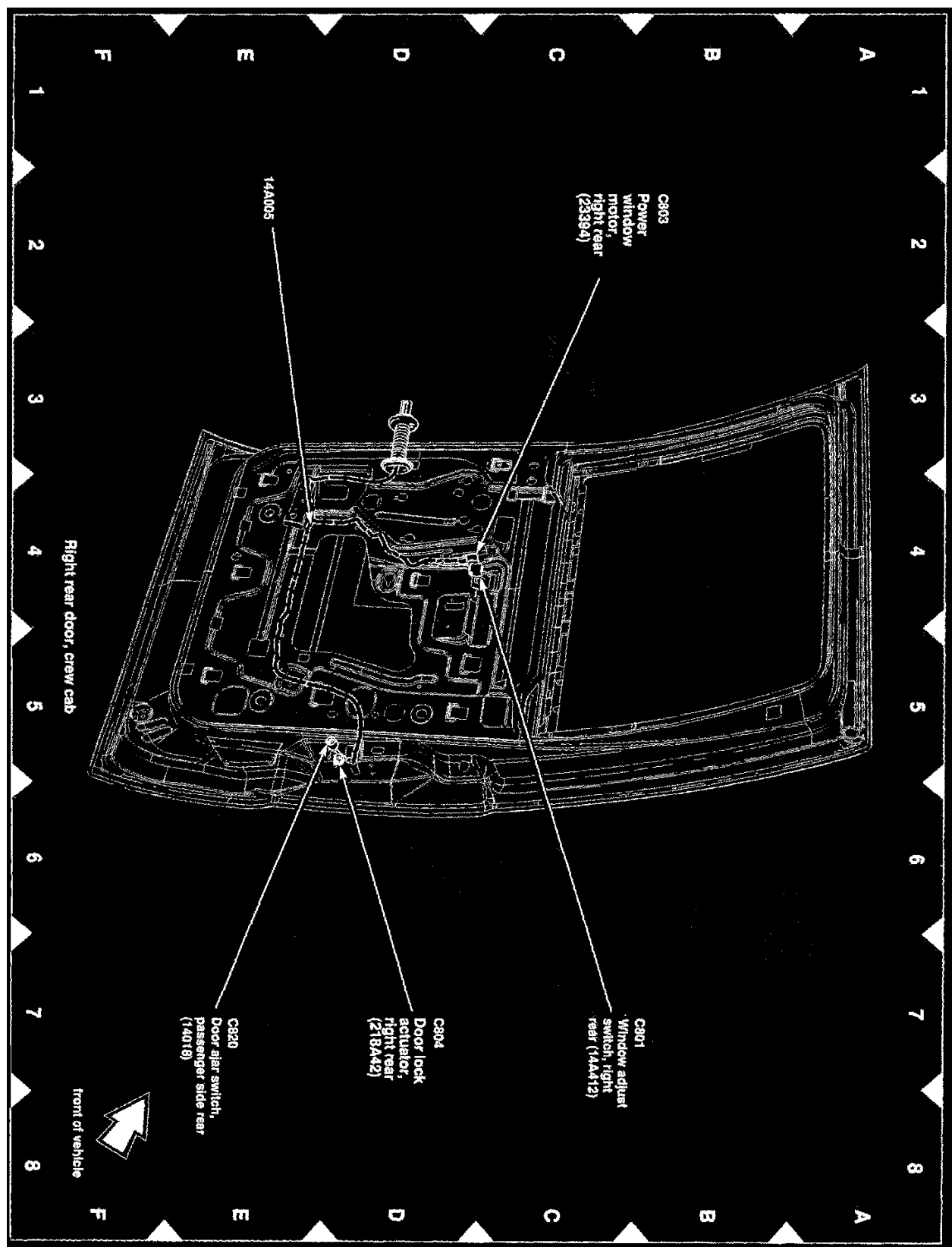
View 151-24 (Left Rear Door, Super Cab)



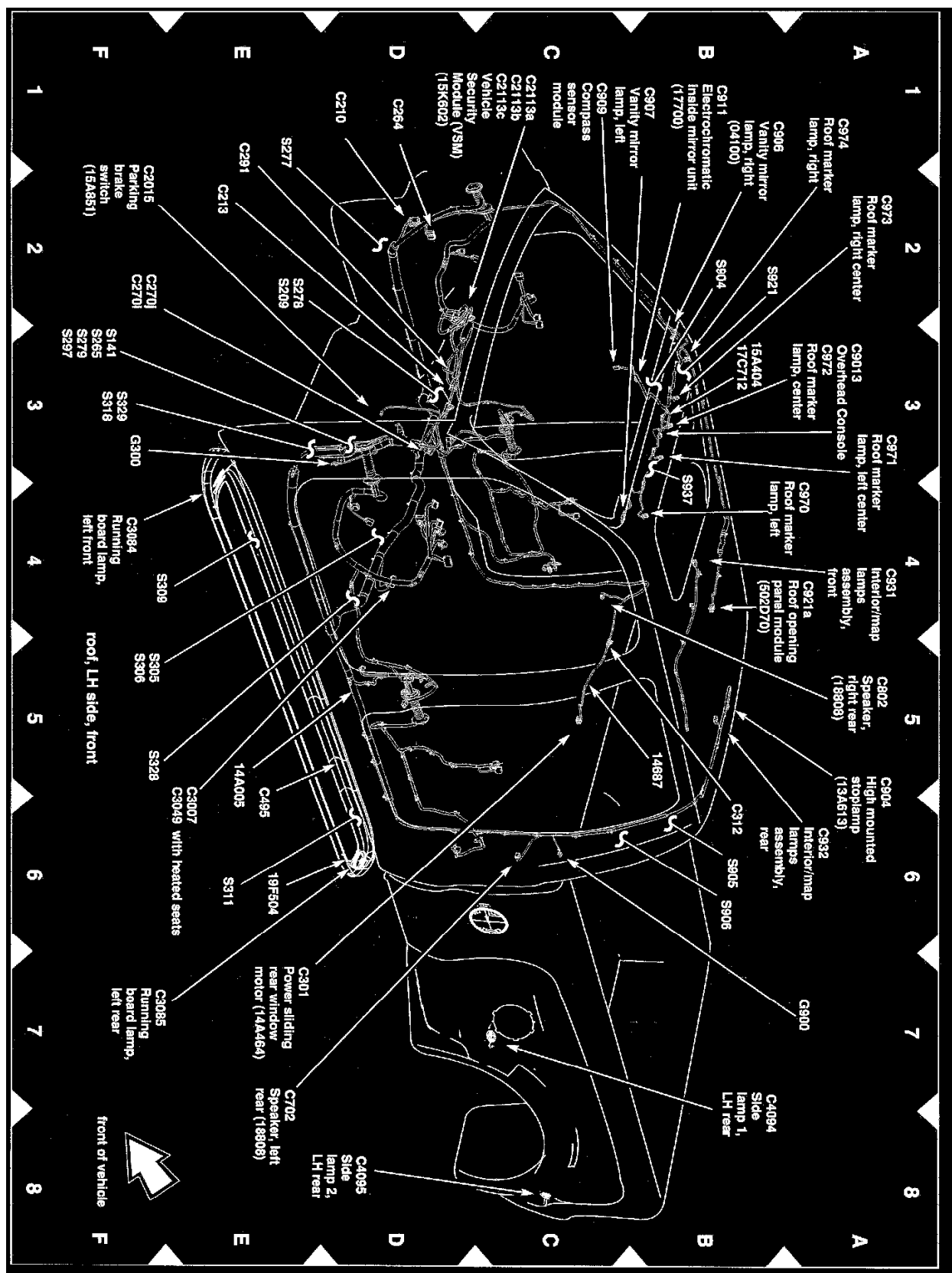
View 151-25 (Right Rear Door, Super Cab)



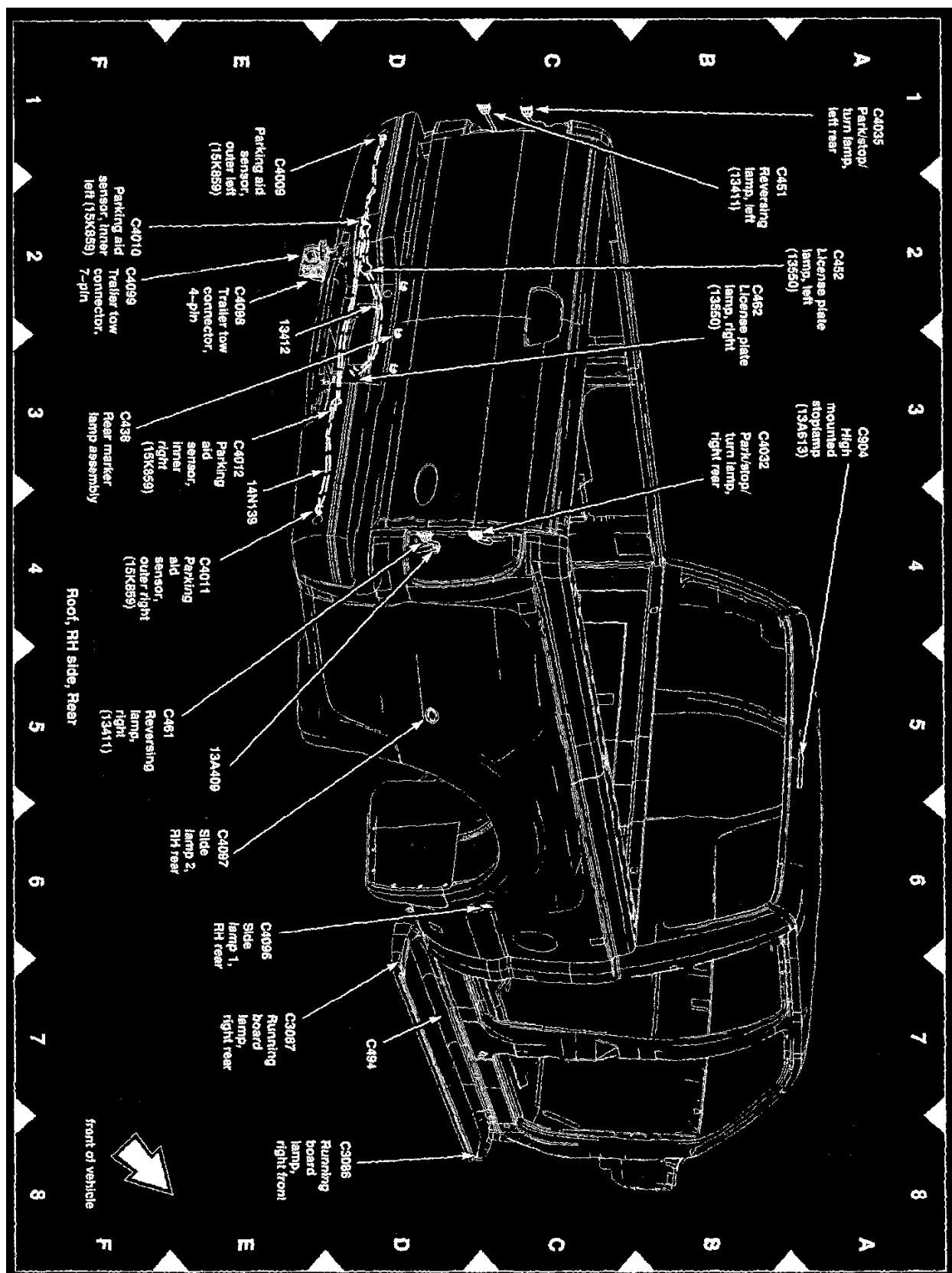
View 151-26 (Left Rear Door, Crew Cab)



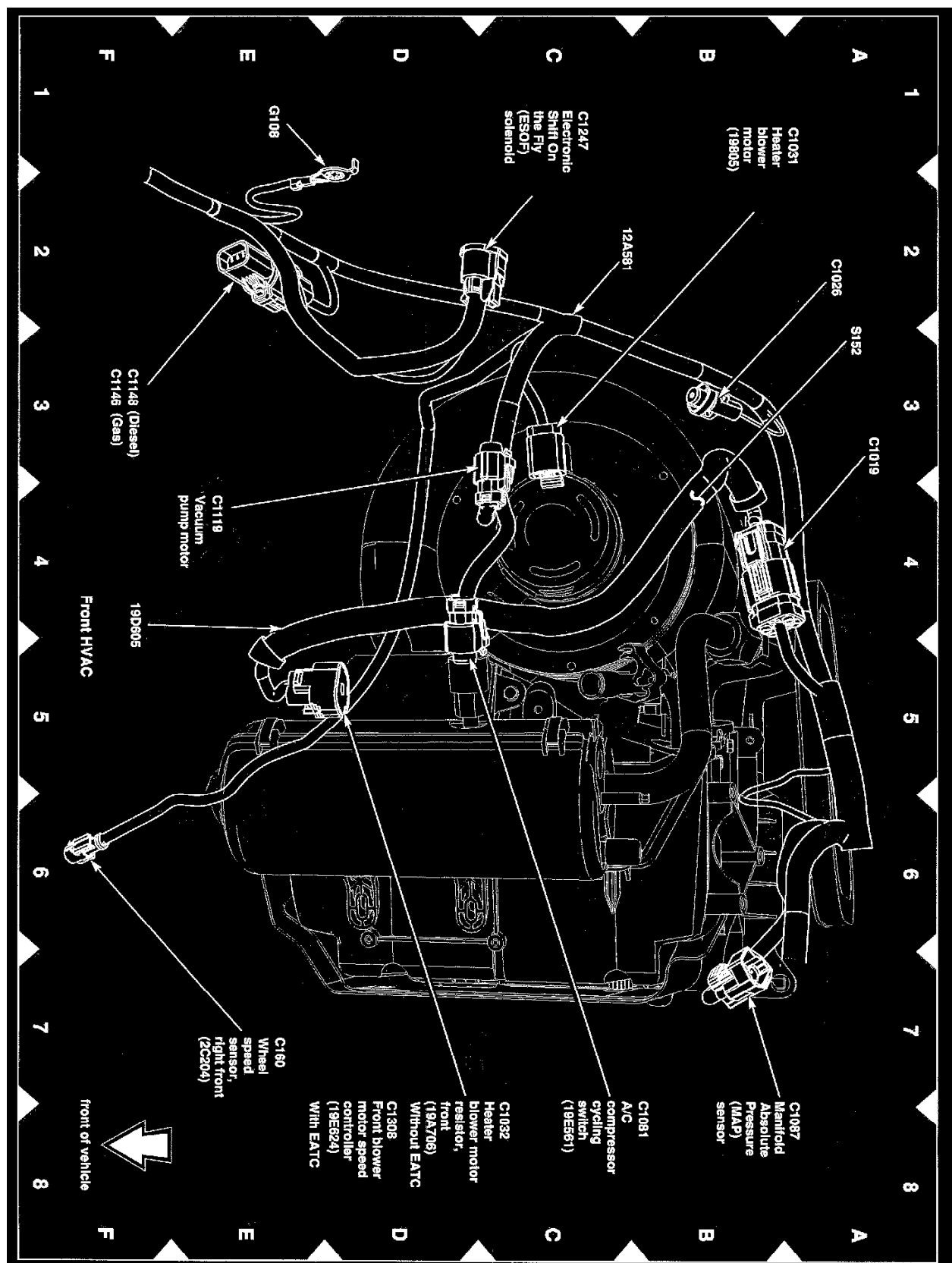
View 151-27 (Right Rear Door, Crew Cab)



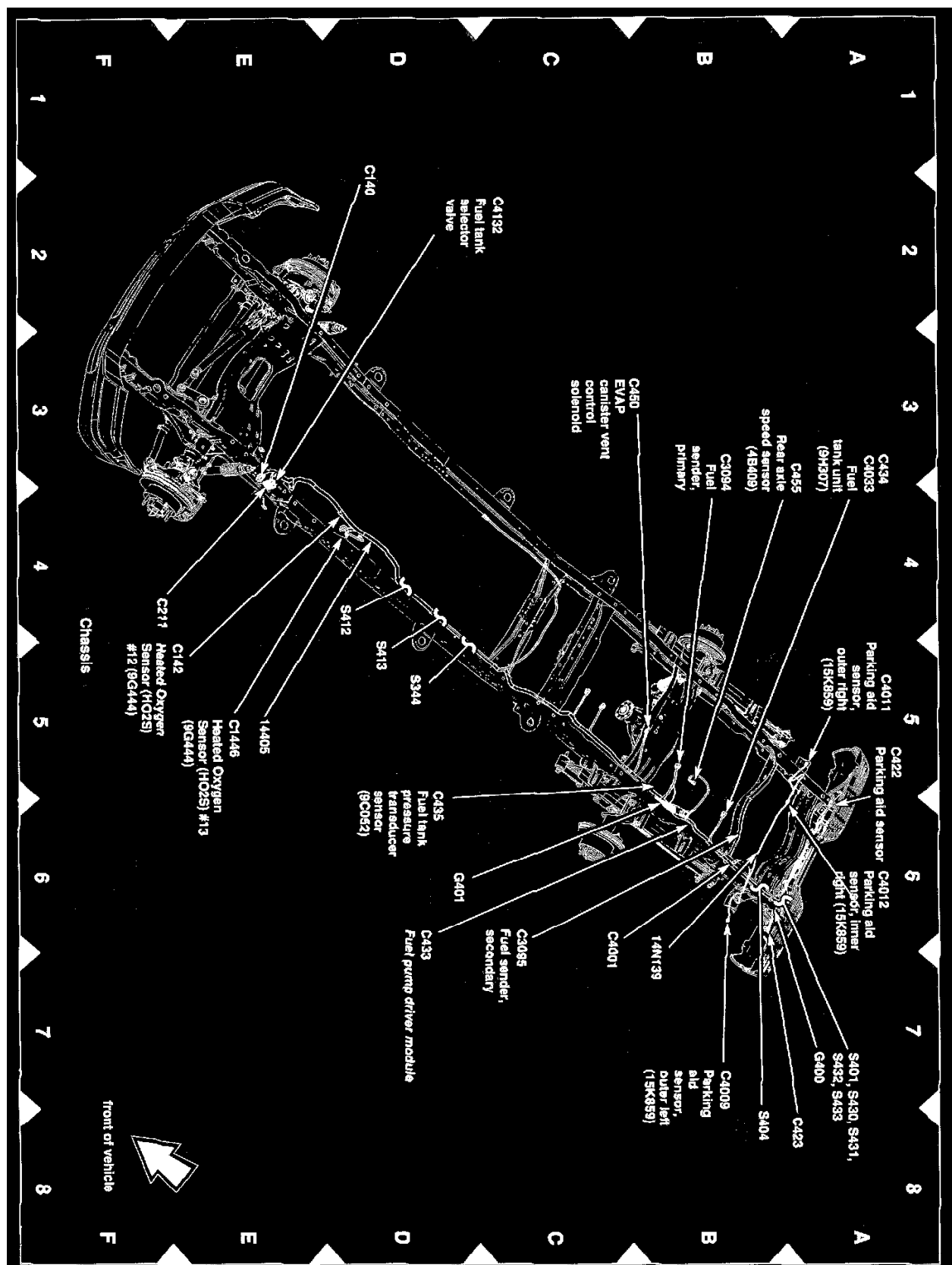
**View 151-28 (Roof, LH Side, Front)**



View 151-29 (Roof, RH Side, Rear)

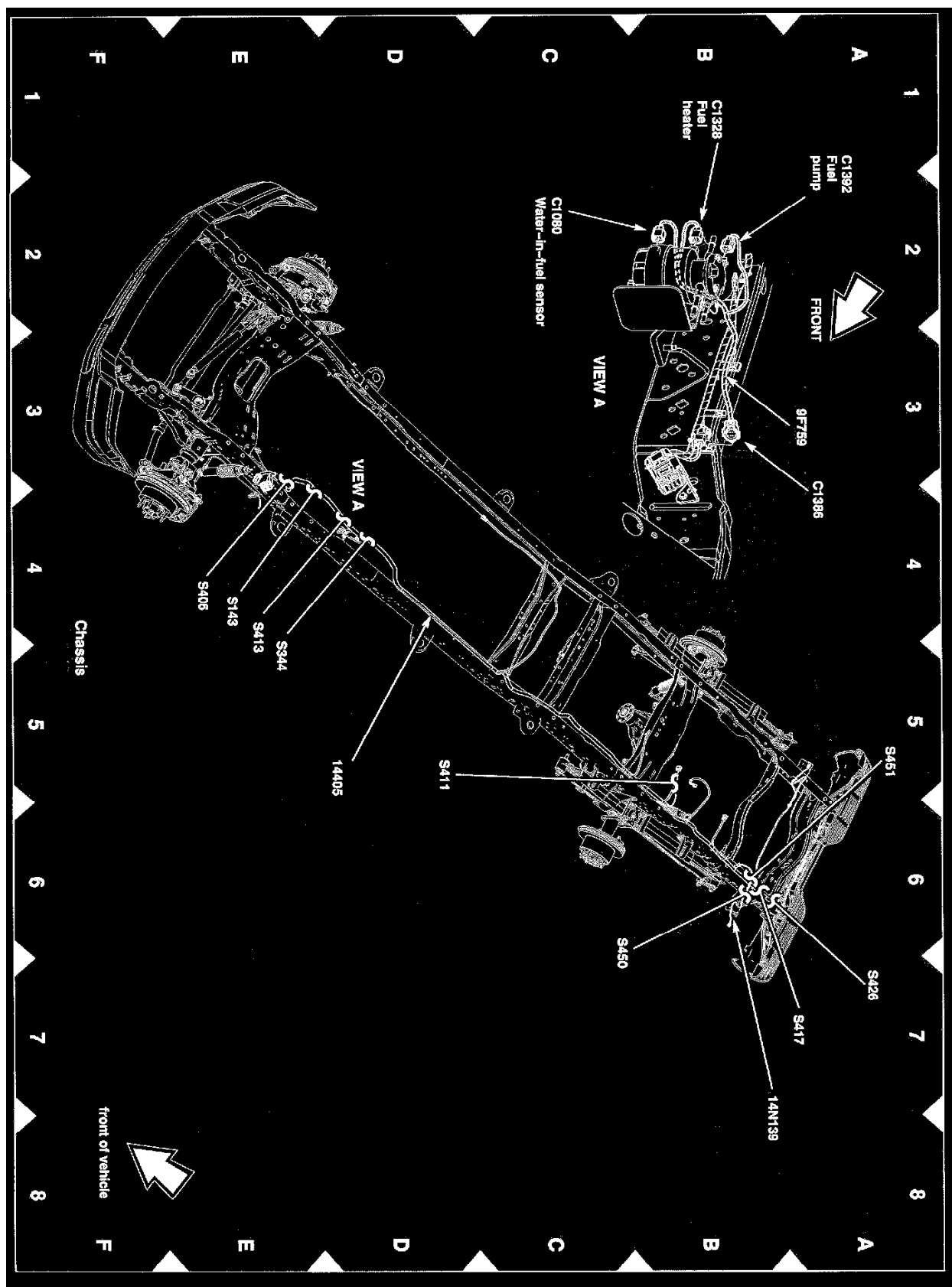


View 151-30 (Front HVAC)

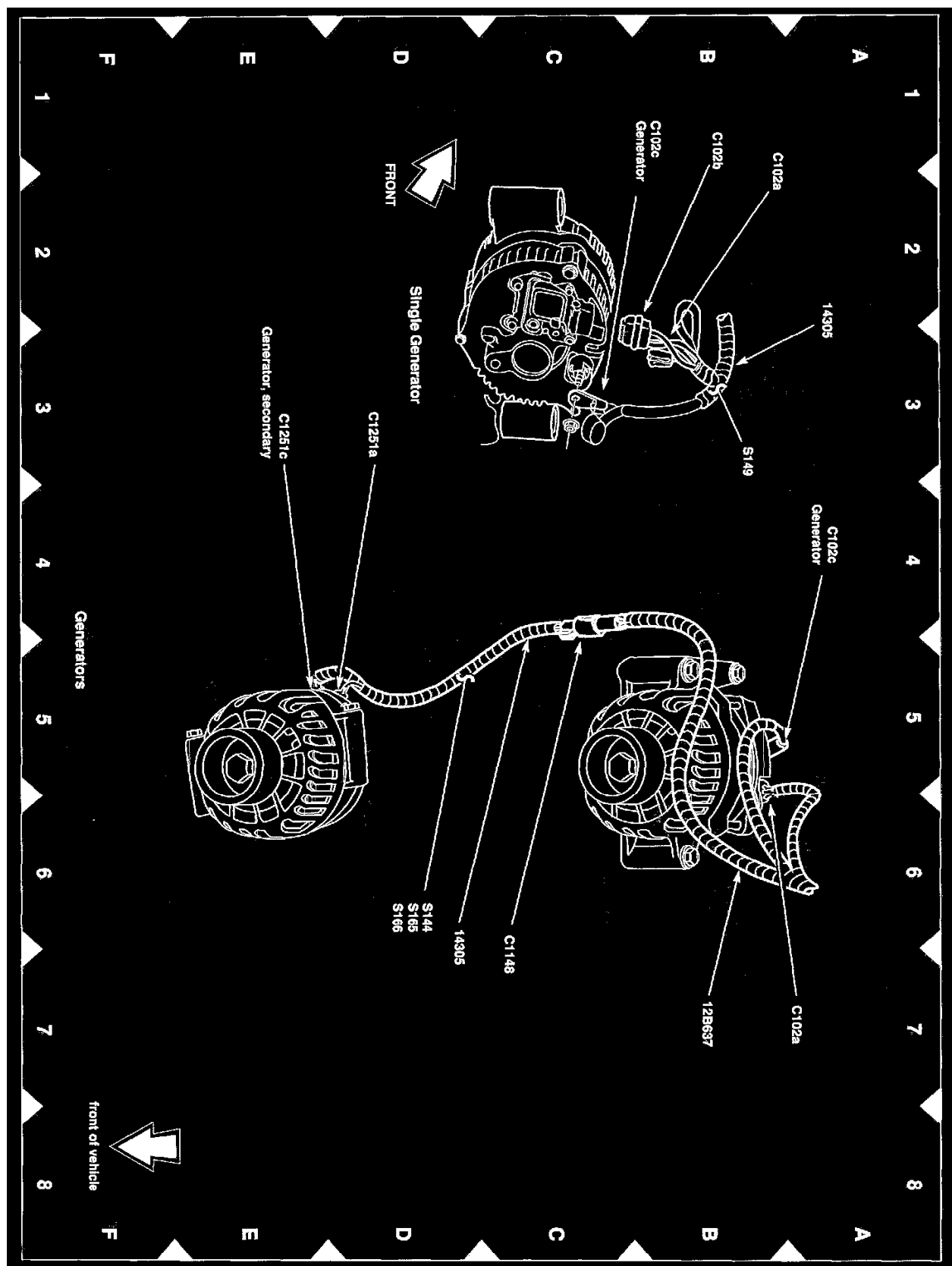


View 151-31 (Chassis)





View 151-32 (Chassis)



View 151-33 (Generators)

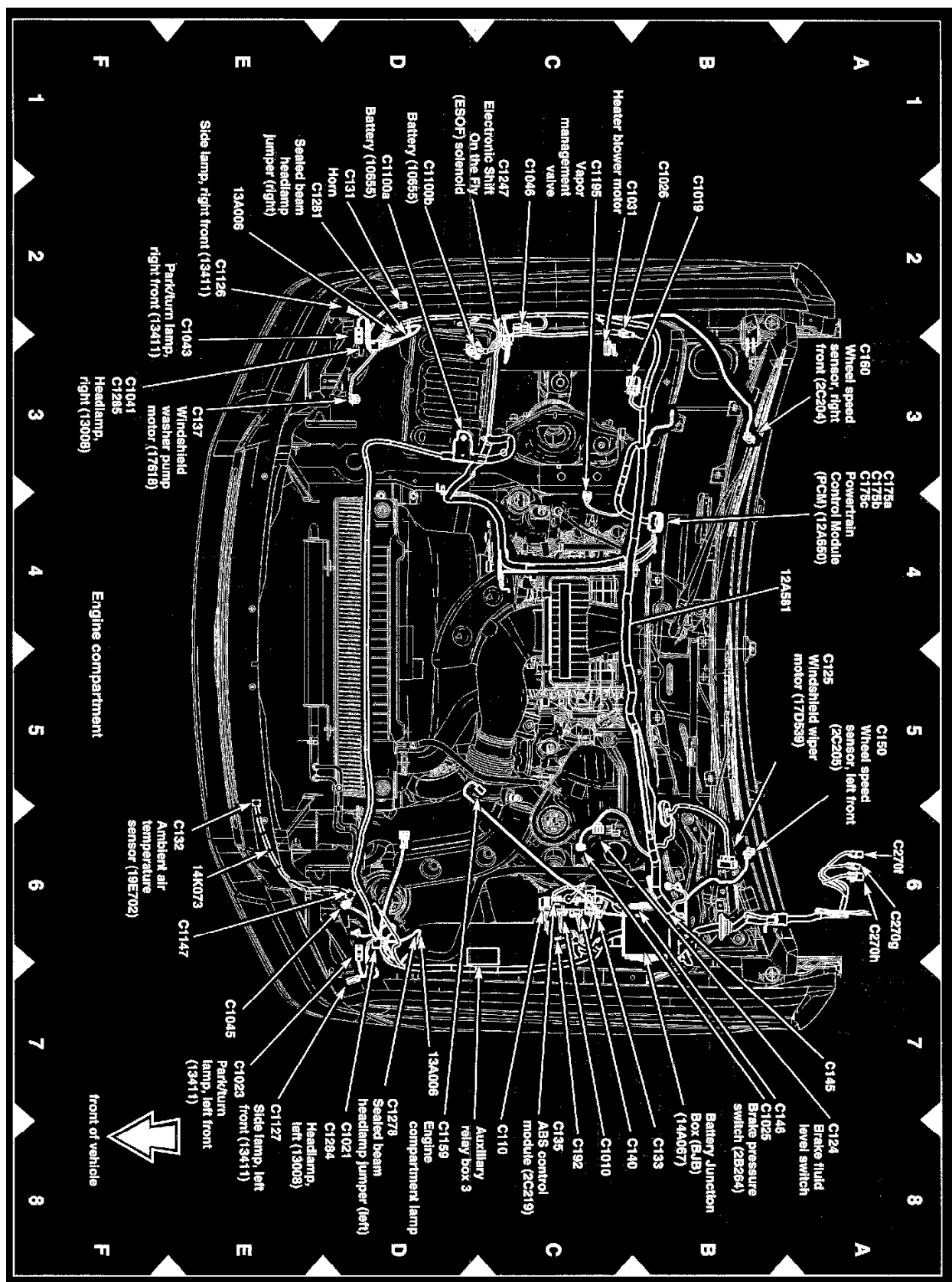
## Ground Location Index

**PLEASE NOTE:** If a link on the Ground Location Index to a View is not provided, that means that the Ground and/or View in question does NOT apply to the vehicle model selected.

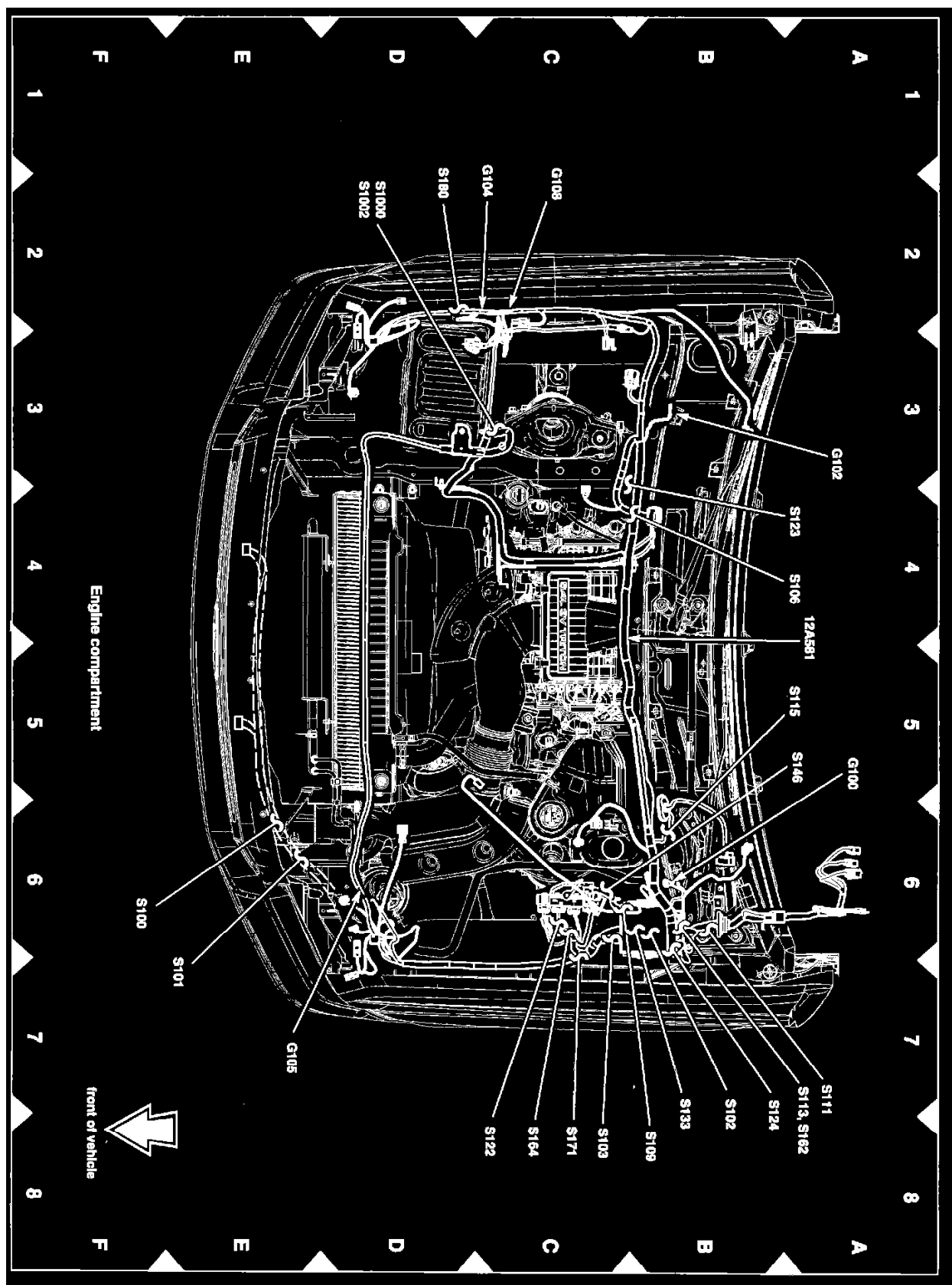
**Ground points****Location****View 151-\*/coordinates**

|       |                                                       |               |
|-------|-------------------------------------------------------|---------------|
| G100  | Engine compartment, rear, LH side - Diesel            | ... 4 - A6    |
| G100  | Engine compartment, rear, LH side                     | ..... 2 - A5  |
| G101  | Engine compartment, LH side - Diesel                  | ..... 4 - D7  |
| G102  | Engine compartment, RH side, rear                     | ..... 2 - A3  |
| G102  | Engine, front, RH side - Diesel                       | ..... 4 - F4  |
| G104  | Engine compartment, right fender                      | ..... 2 - C2  |
| G104  | Engine compartment, right fender - Diesel             | ..... 4 - C2  |
| G105  | Engine compartment, front, LH side                    | ..... 2 - E7  |
| G105  | Engine compartment, front, LH side - Diesel           | .. 4 - R6     |
| G106  | Engine compartment, RH side, on frame rail - Diesel   | ..... 4 - F3  |
| G108  | Engine compartment, RH side                           | ..... 30 - E1 |
| G108  | Engine compartment, RH side                           | ..... 2 - C2  |
| G108  | Engine compartment, RH side - Diesel                  | ..... 4 - C2  |
| G109  | Engine, LH side - Diesel                              | ..... 4 - R6  |
| G110  | Engine, top, rear - 6.0L Diesel                       | ..... 13 - C1 |
| G200  | behind dash panel, LH side                            | ..... 17 - E5 |
| G201  | behind dash panel, LH side                            | ..... 17 - E4 |
| G202  | behind dash panel, LH side                            | ..... 17 - E4 |
| G203  | under dash panel, RH side                             | ..... 17 - D1 |
| G300  | under dash panel, LH side                             | ..... 28 - F3 |
| G400  | Vehicle underbody, rear, chassis side member, LH side | ..... 31 - A7 |
| G401  | Vehicle underbody, LH side                            | ..... 31 - D6 |
| G900  | LH C-Pillar                                           | ..... 28 - A7 |
| G2300 | Behind dash panel, center                             | ..... 17 - D5 |

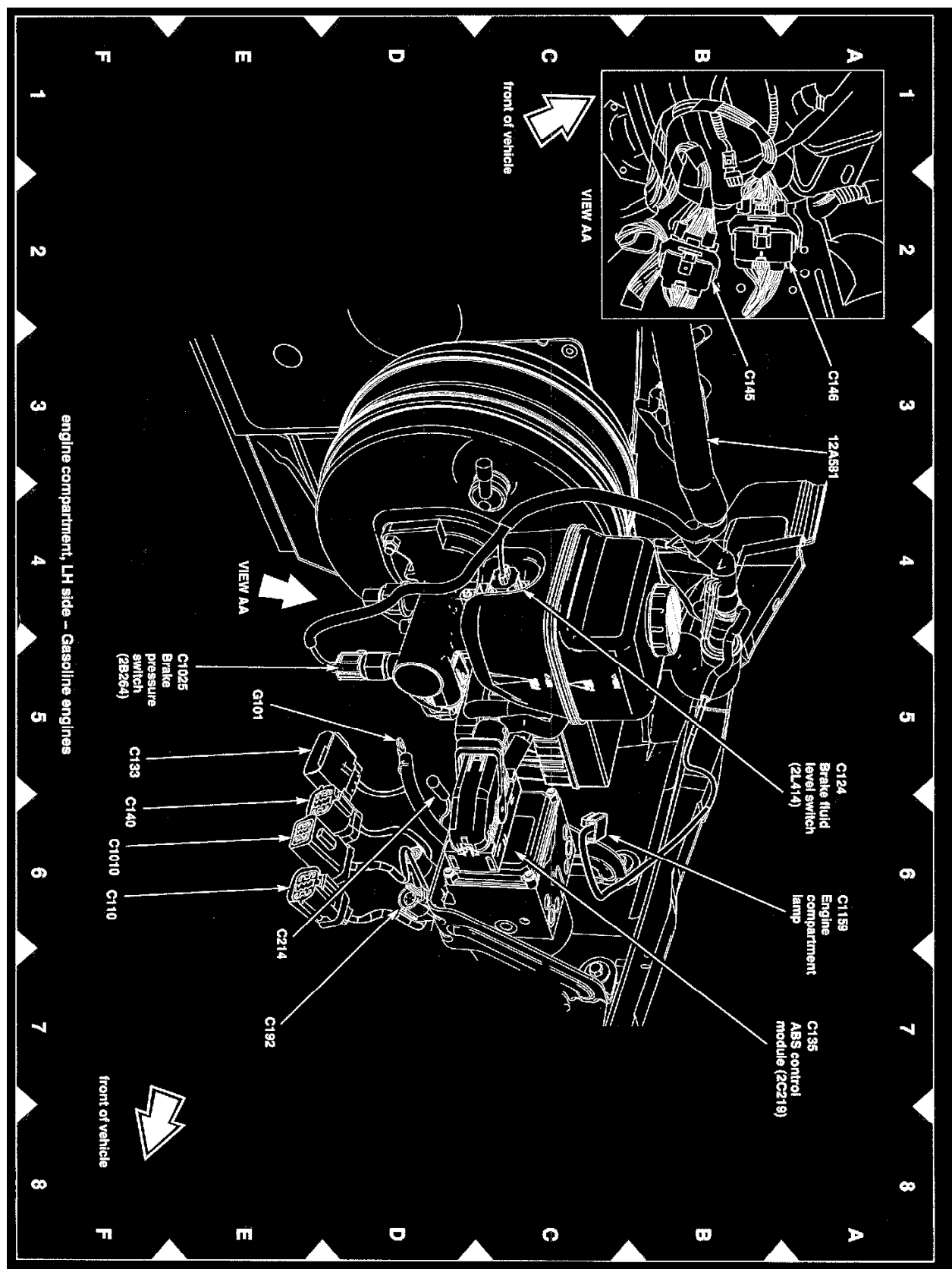
G100-G2300



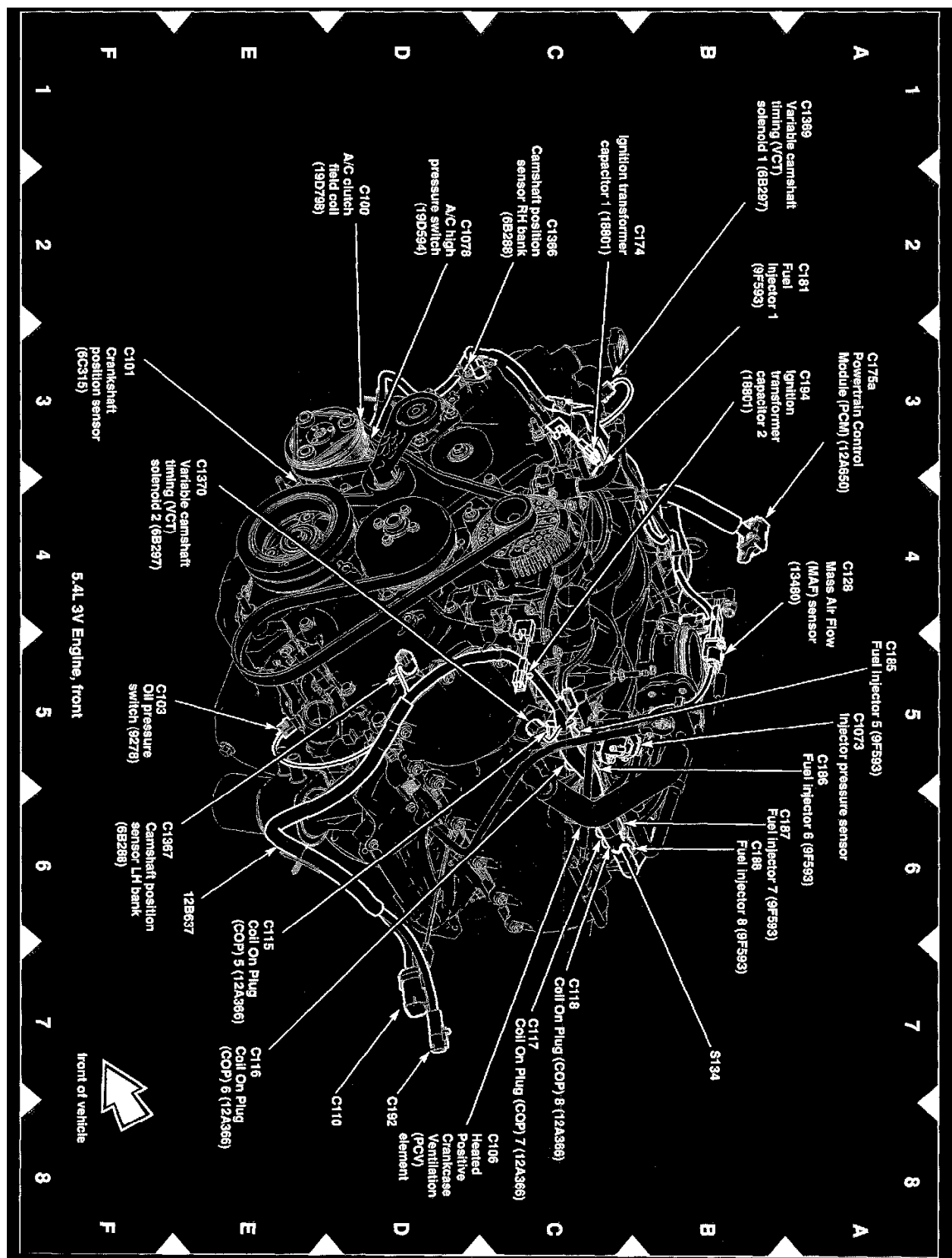
View 151-1 (Engine Compartment)



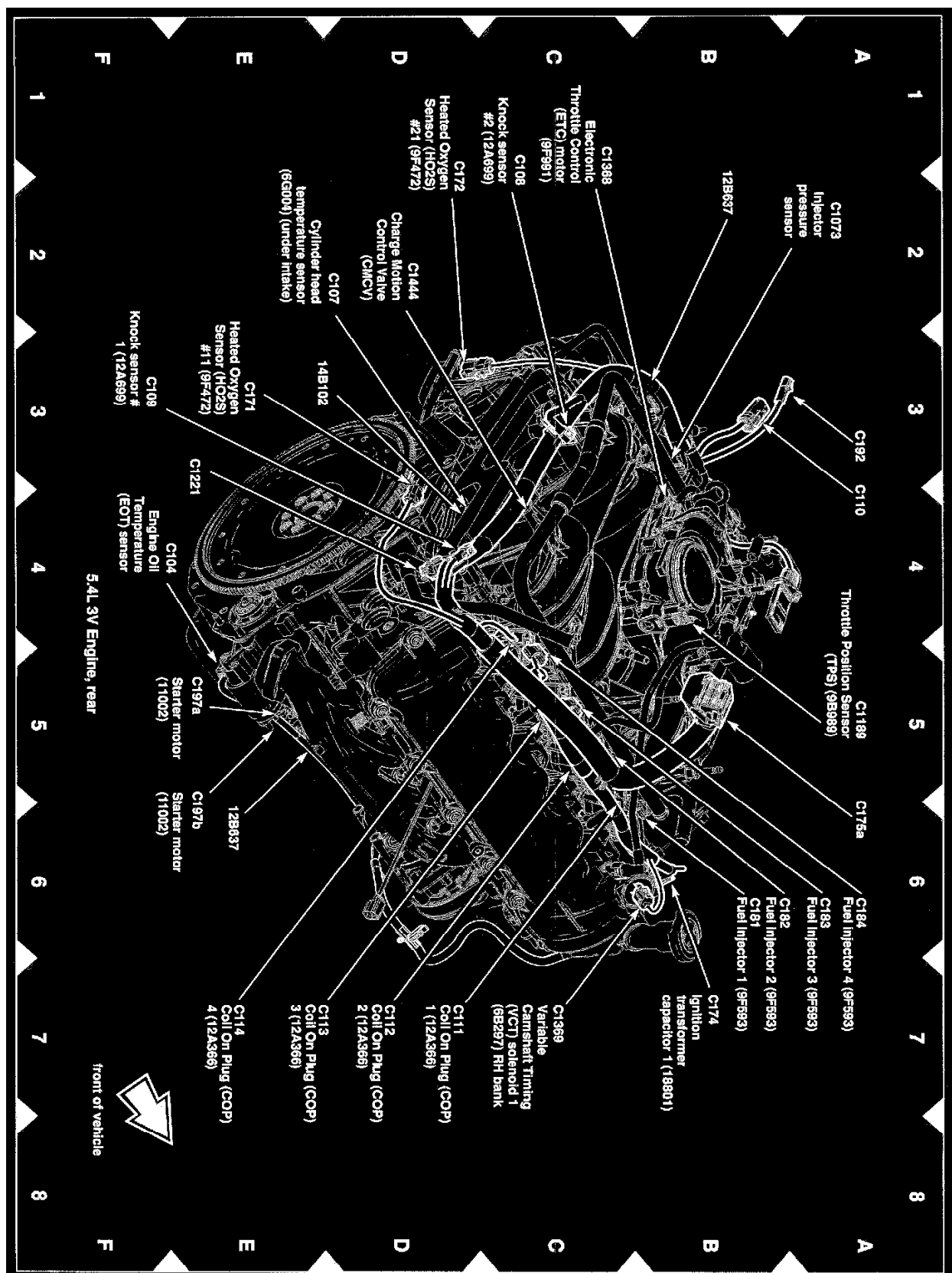
View 151-2 (Engine Compartment)



View 151-6 (Engine Compartment, LH Side)

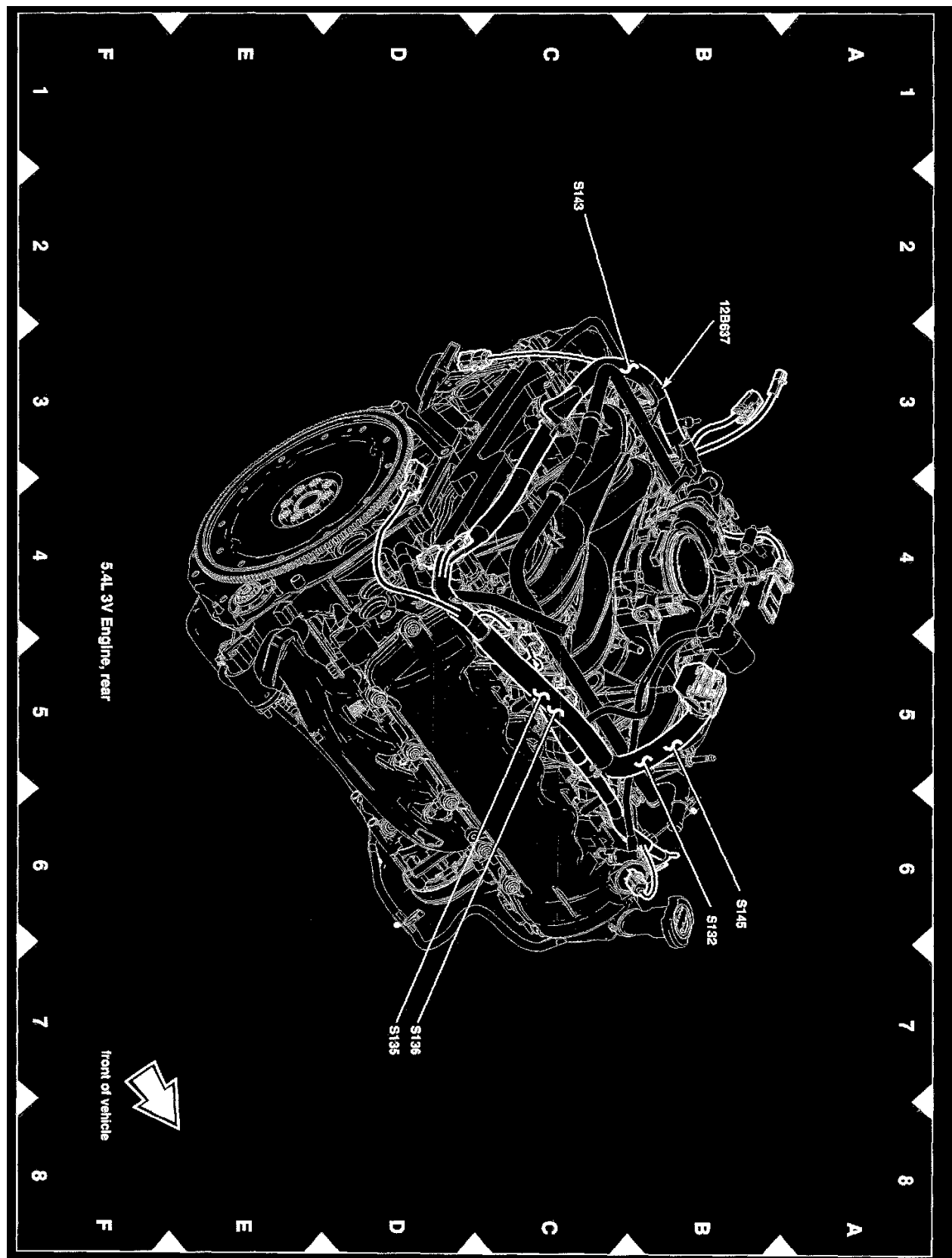


View 151-7 (Engine, Front)

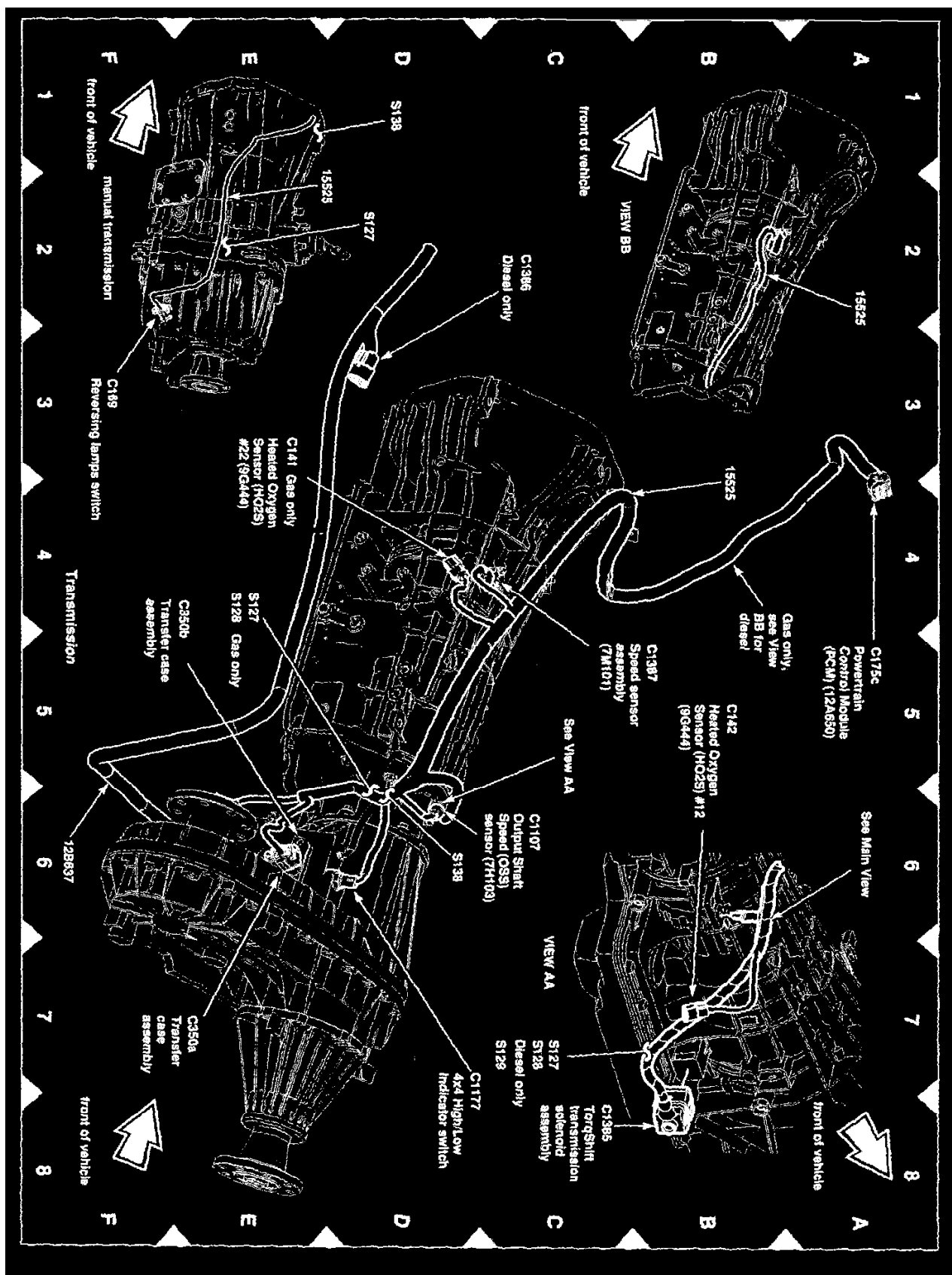


View 151-8 (Engine, Rear)

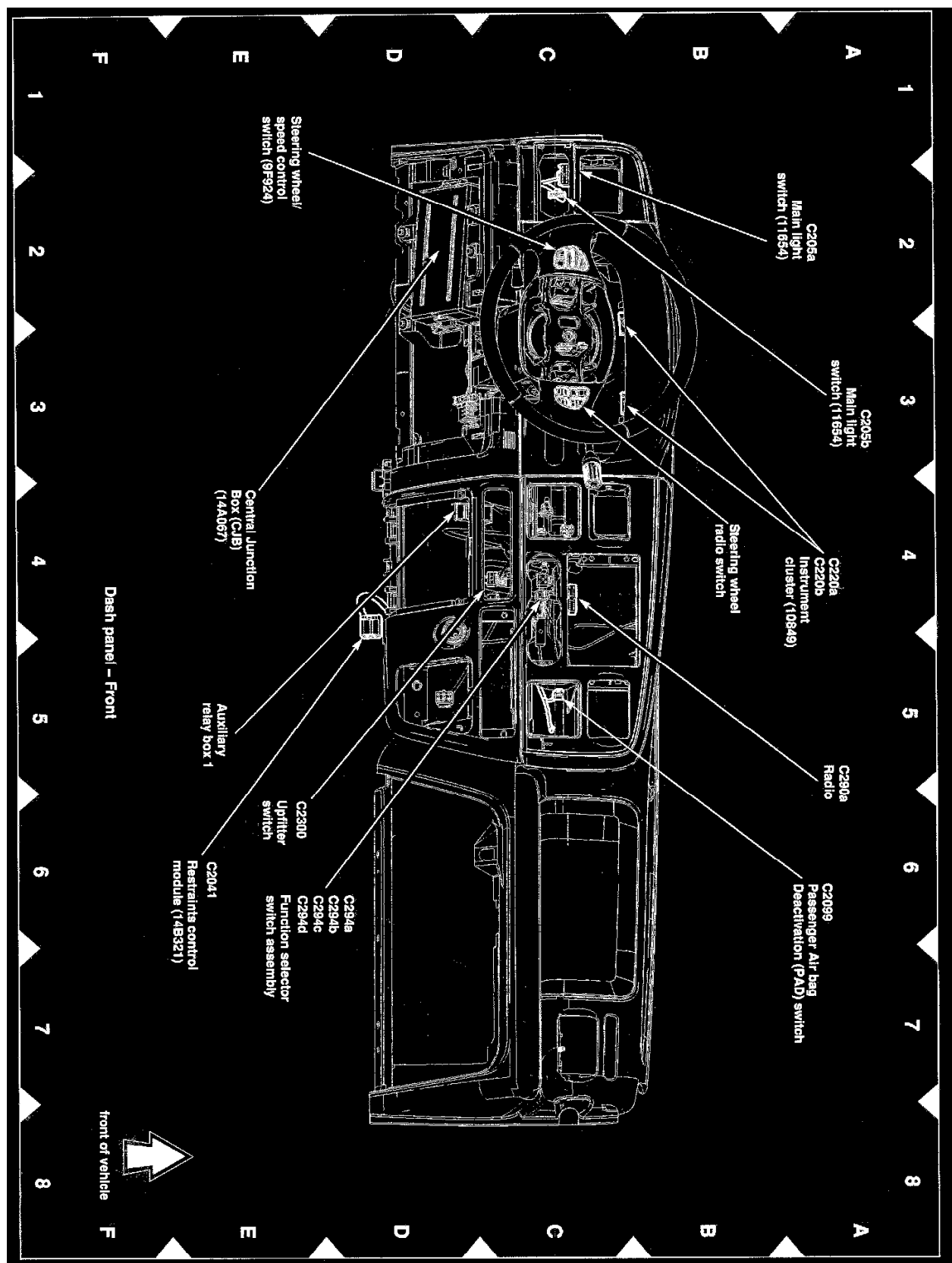




View 151-9 (Engine, Rear)



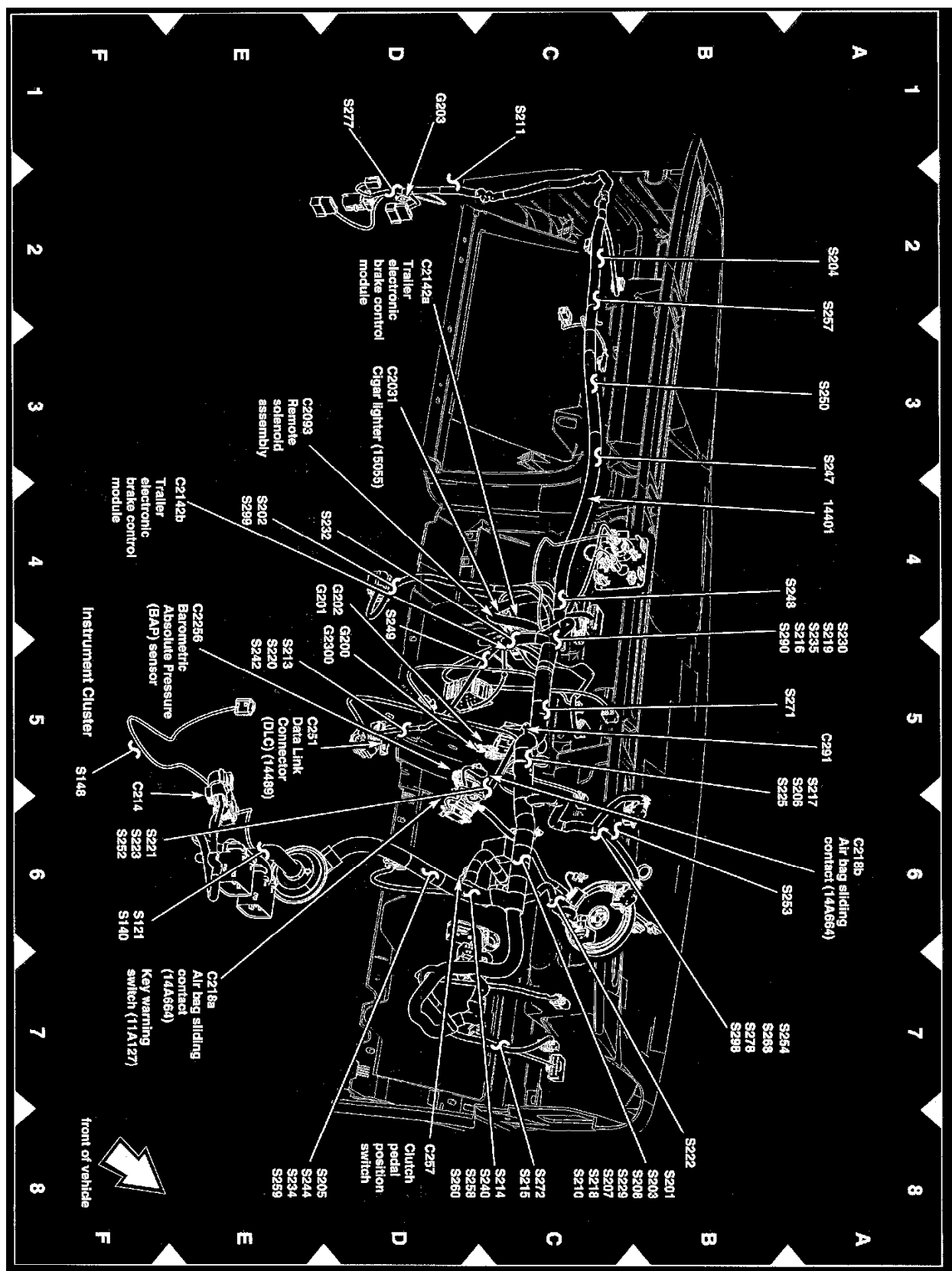
View 151-14 (Transmission)



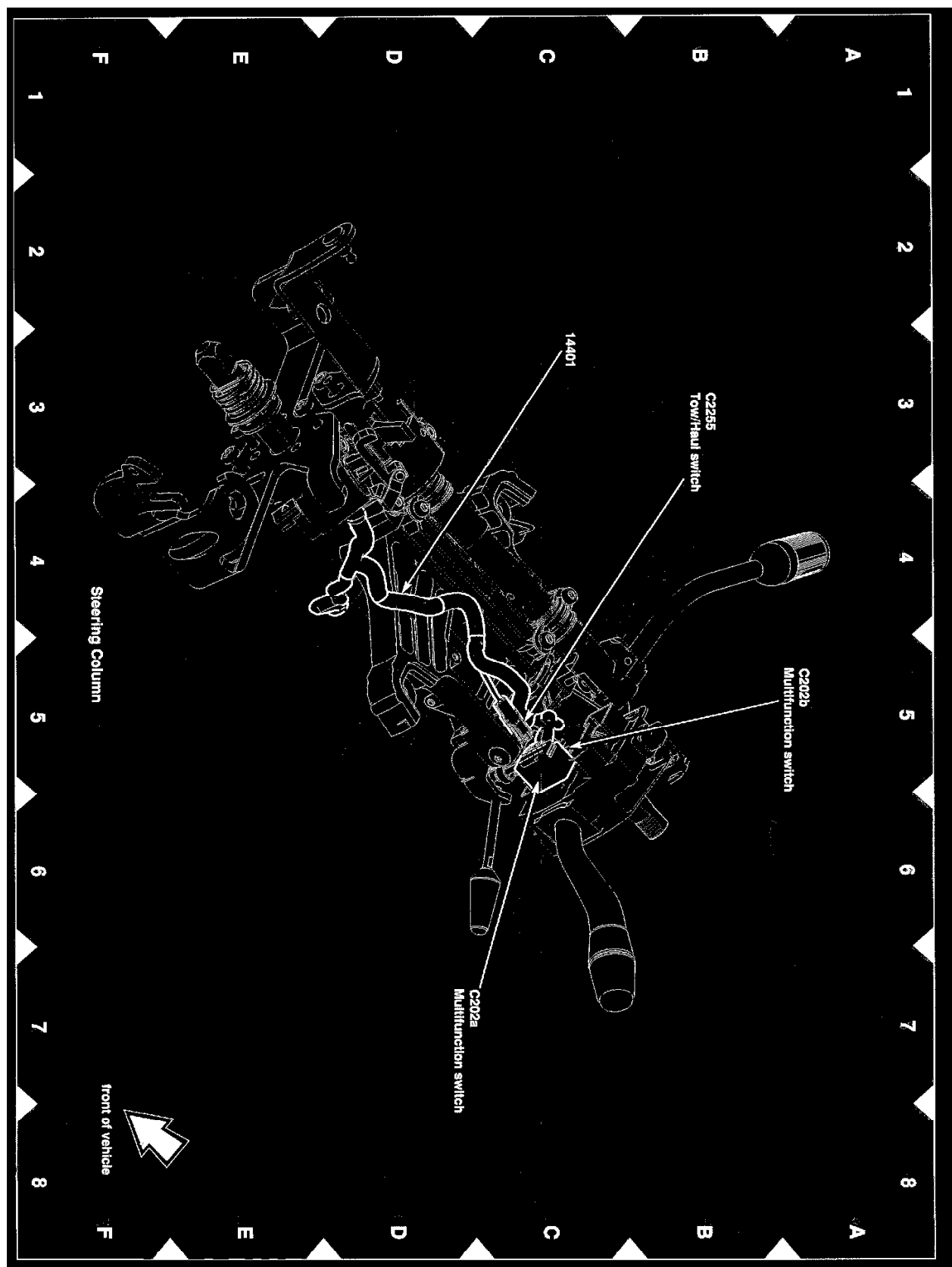
View 151-15 (Dash Panel - Front)



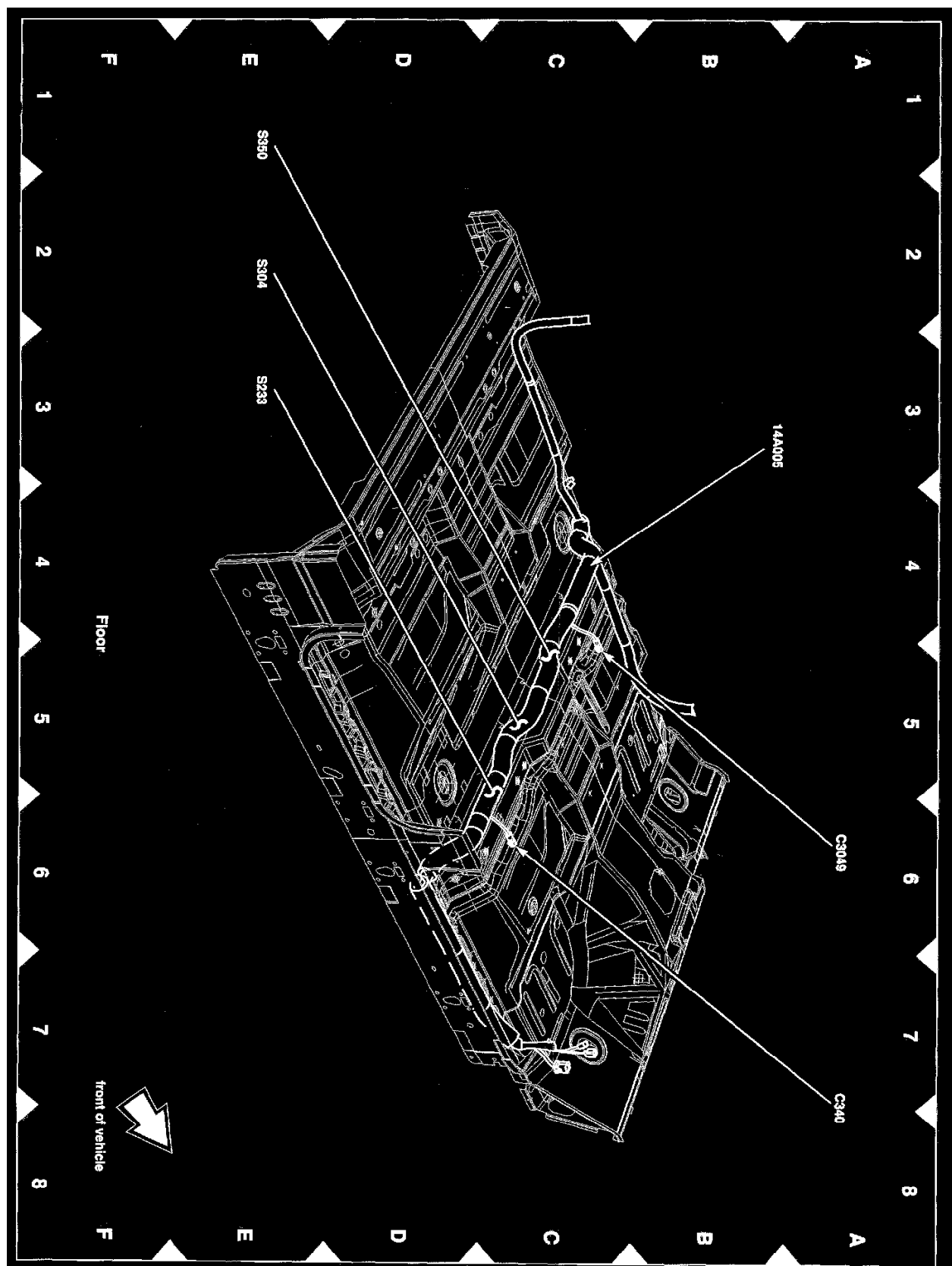
**View 151-16 (Instrument Panel)**



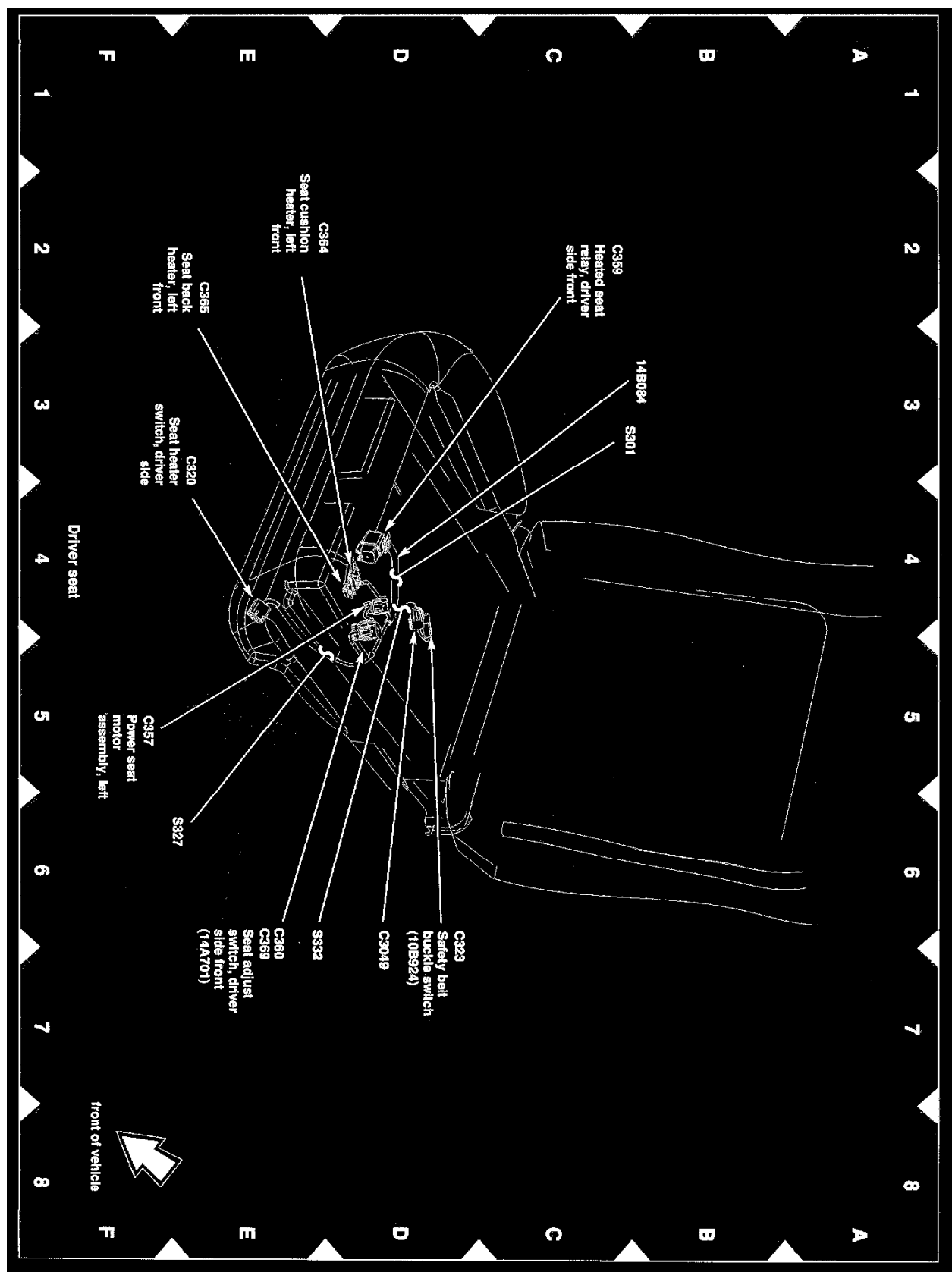
View 151-17 (Instrument Cluster)



View 151-18 (Steering Column)

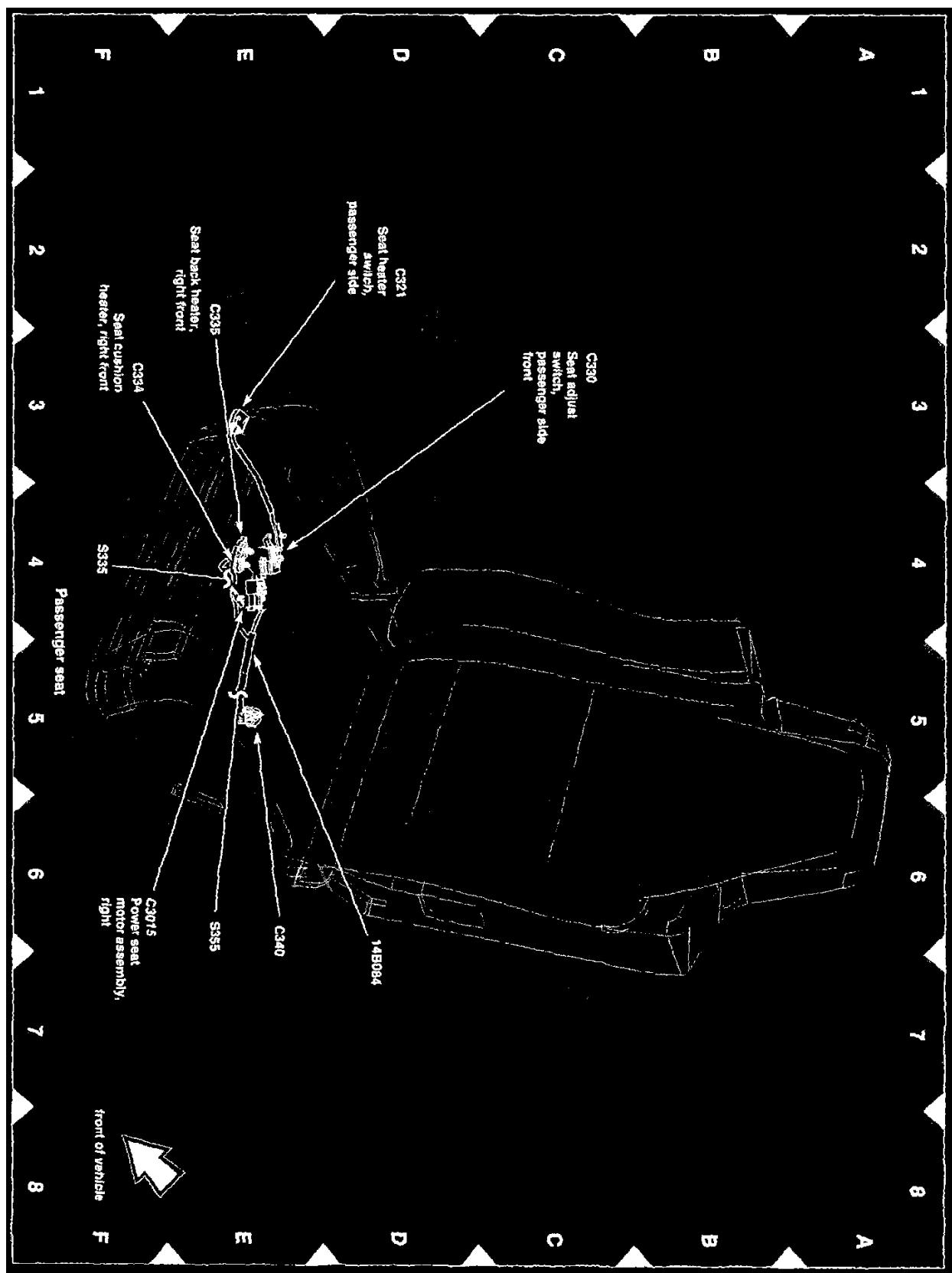


View 151-19 (Floor)

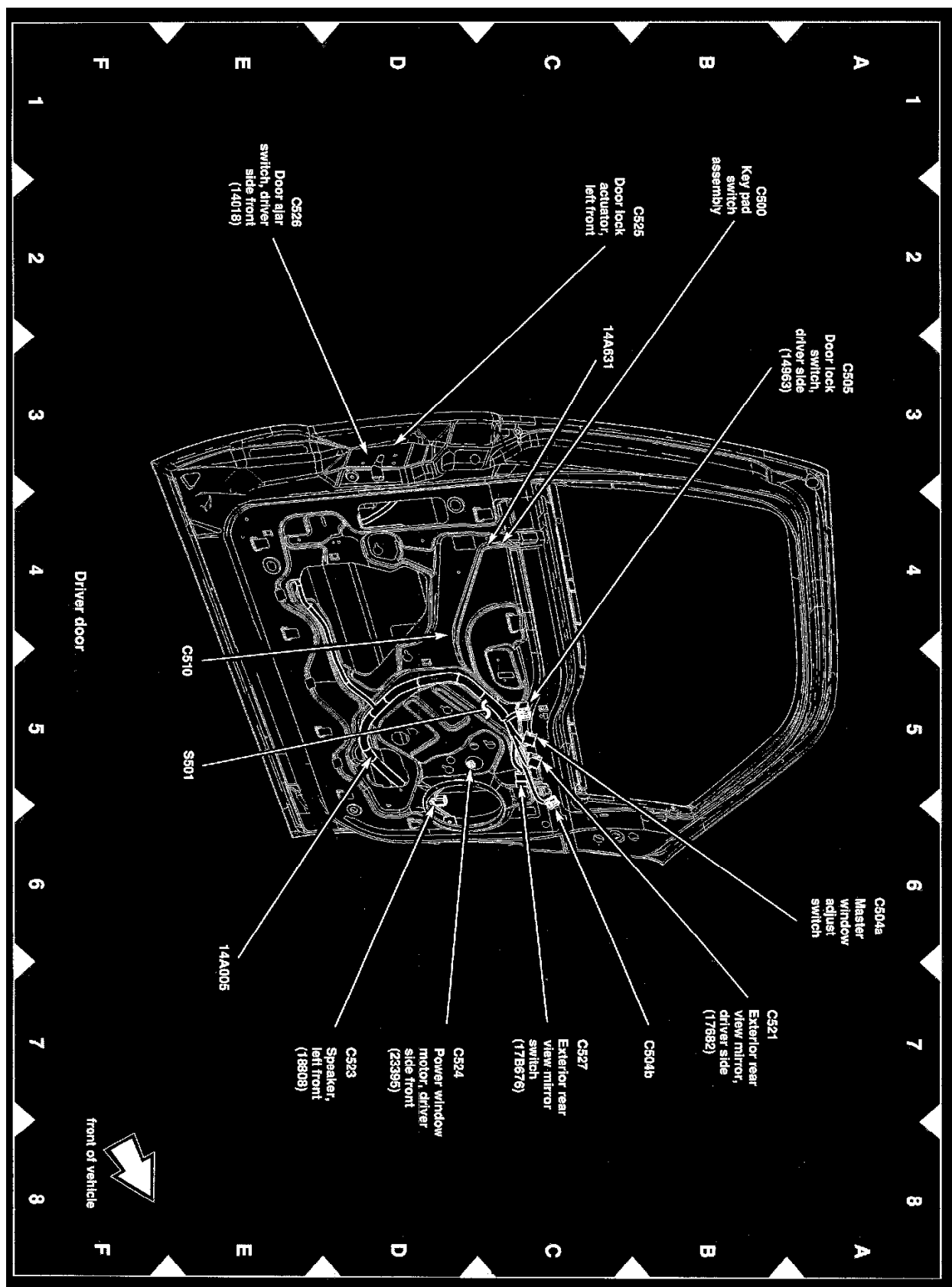


View 151-20 (Driver Seat)

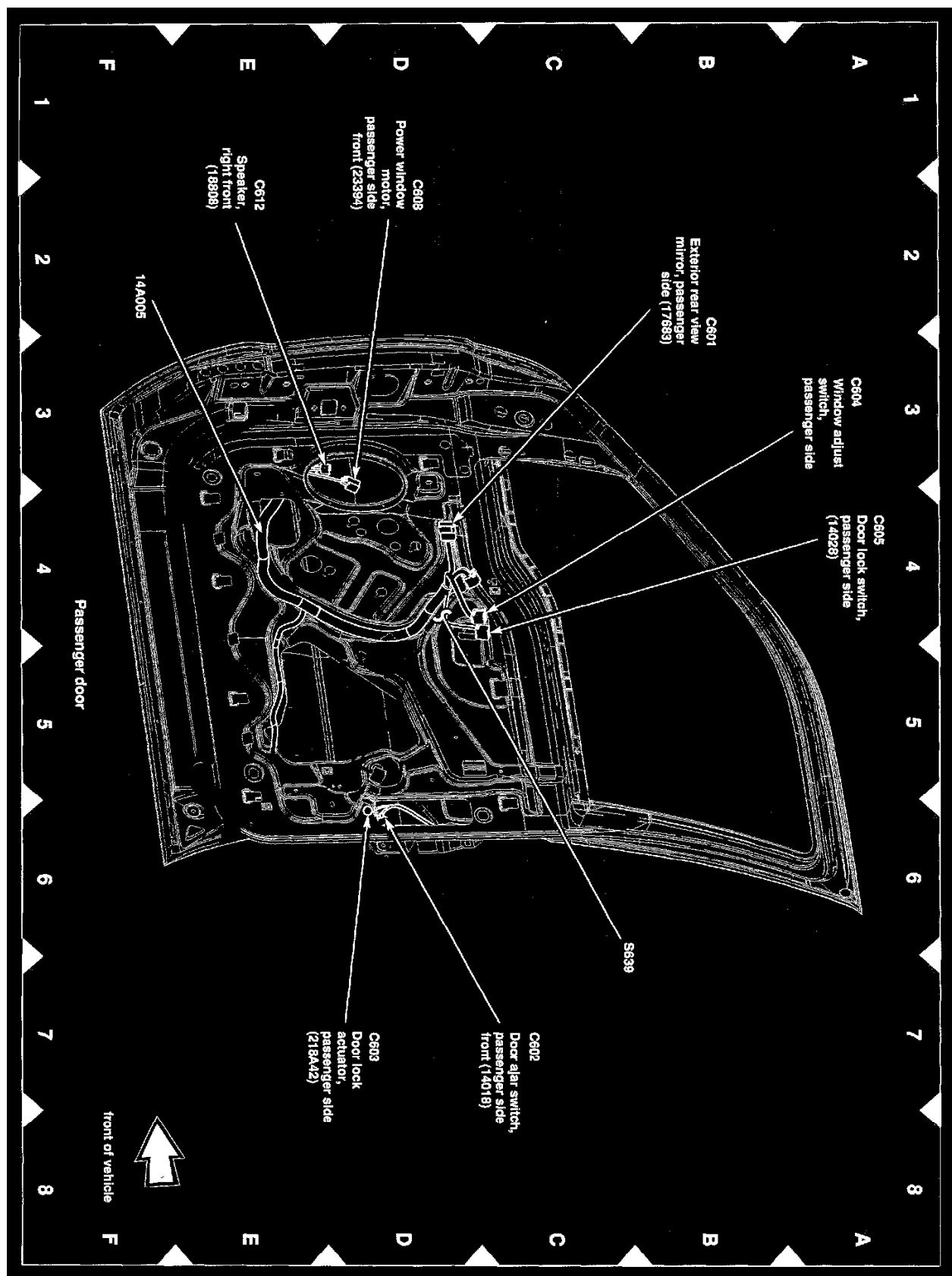




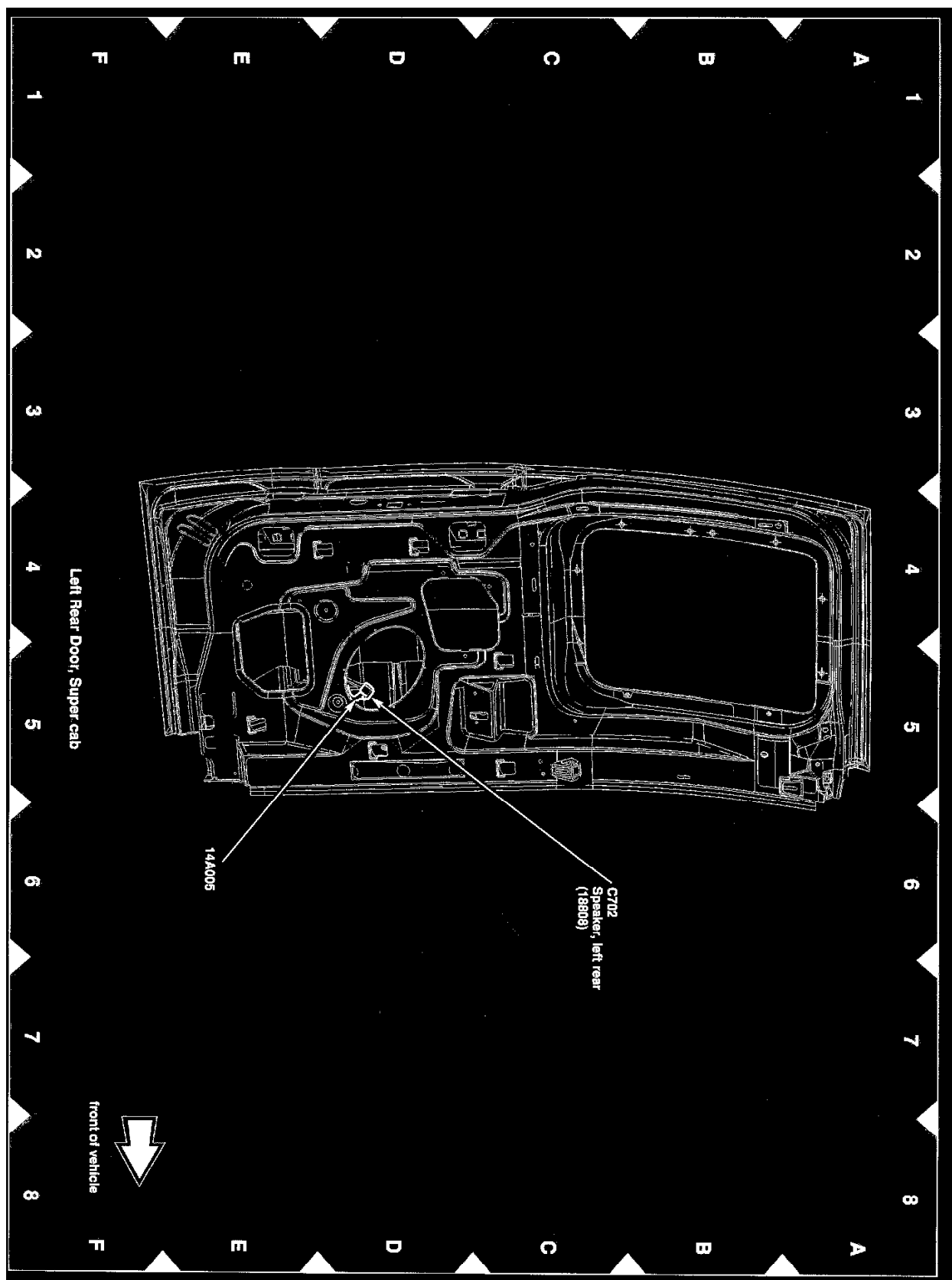
View 151-21 (Passenger Seat)



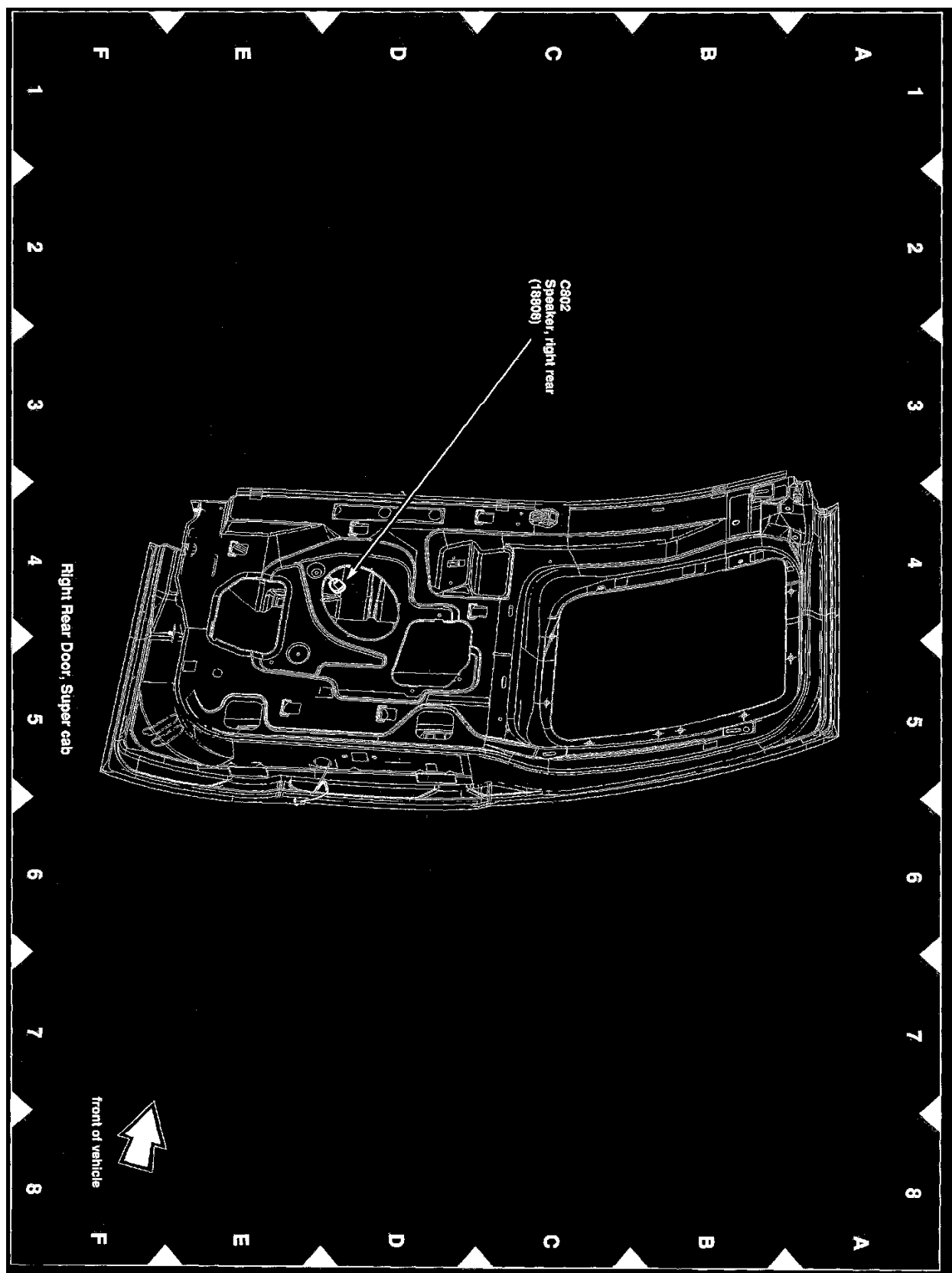
View 151-22 (Driver Door)



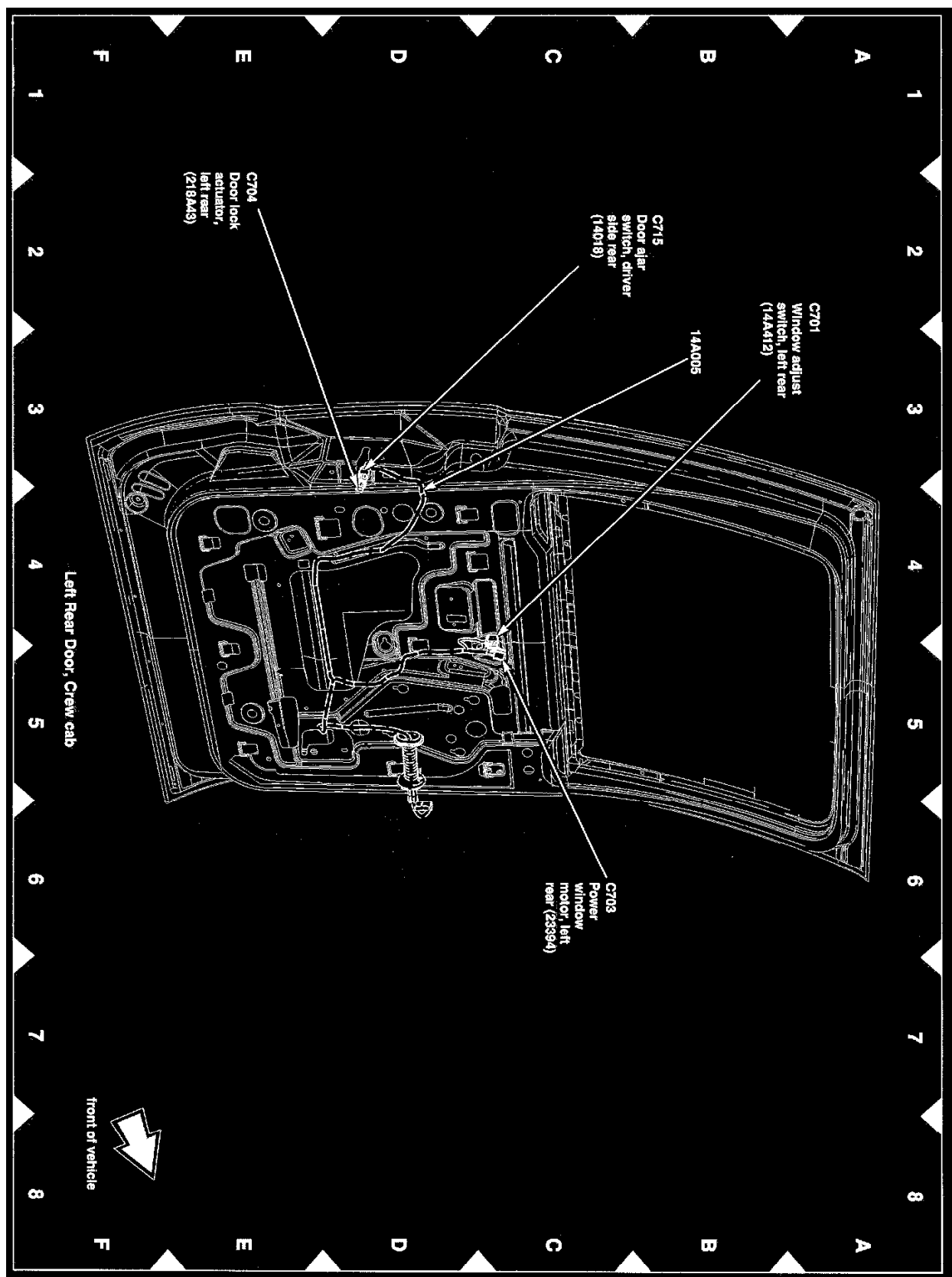
View 151-23 (Passenger Door)



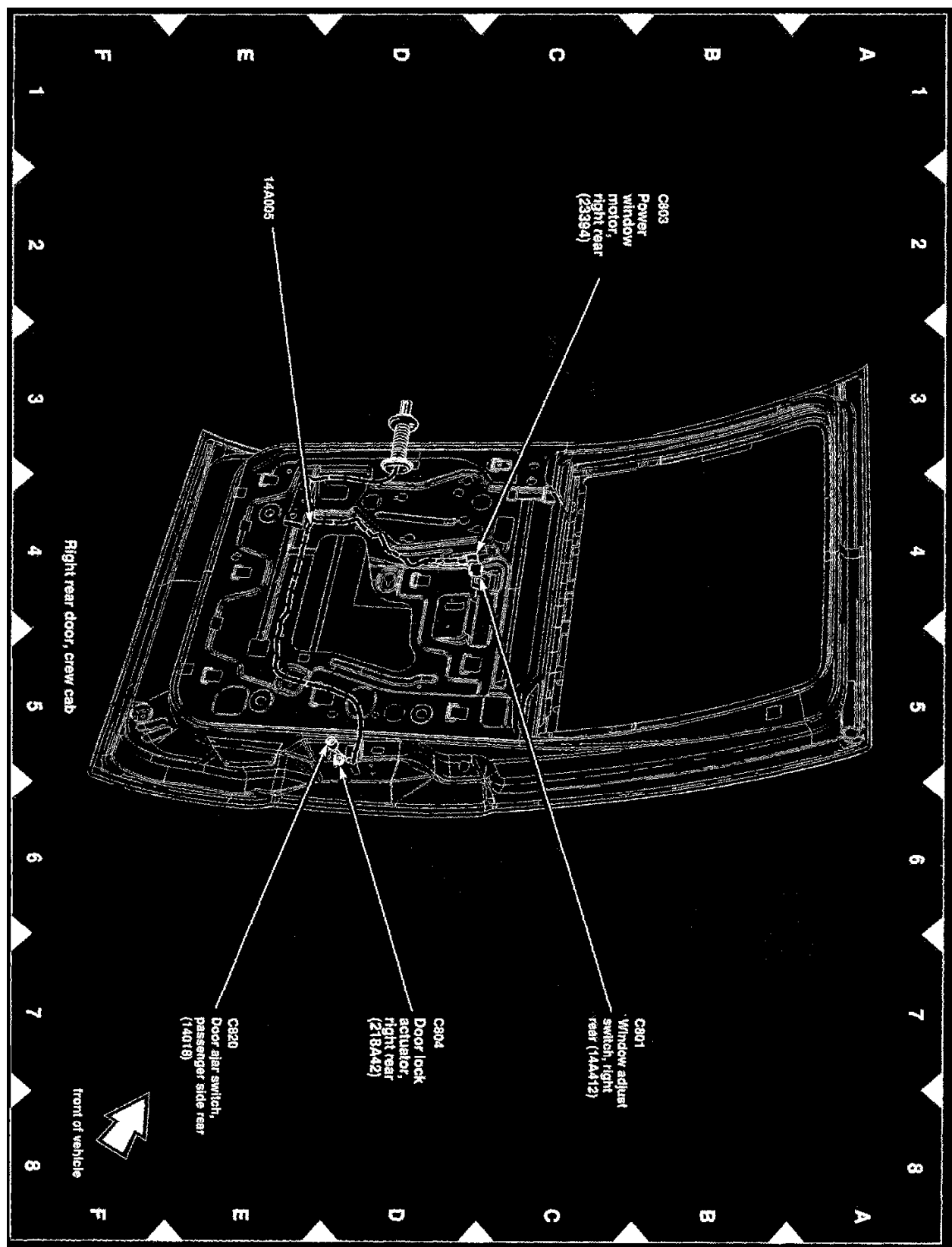
View 151-24 (Left Rear Door, Super Cab)



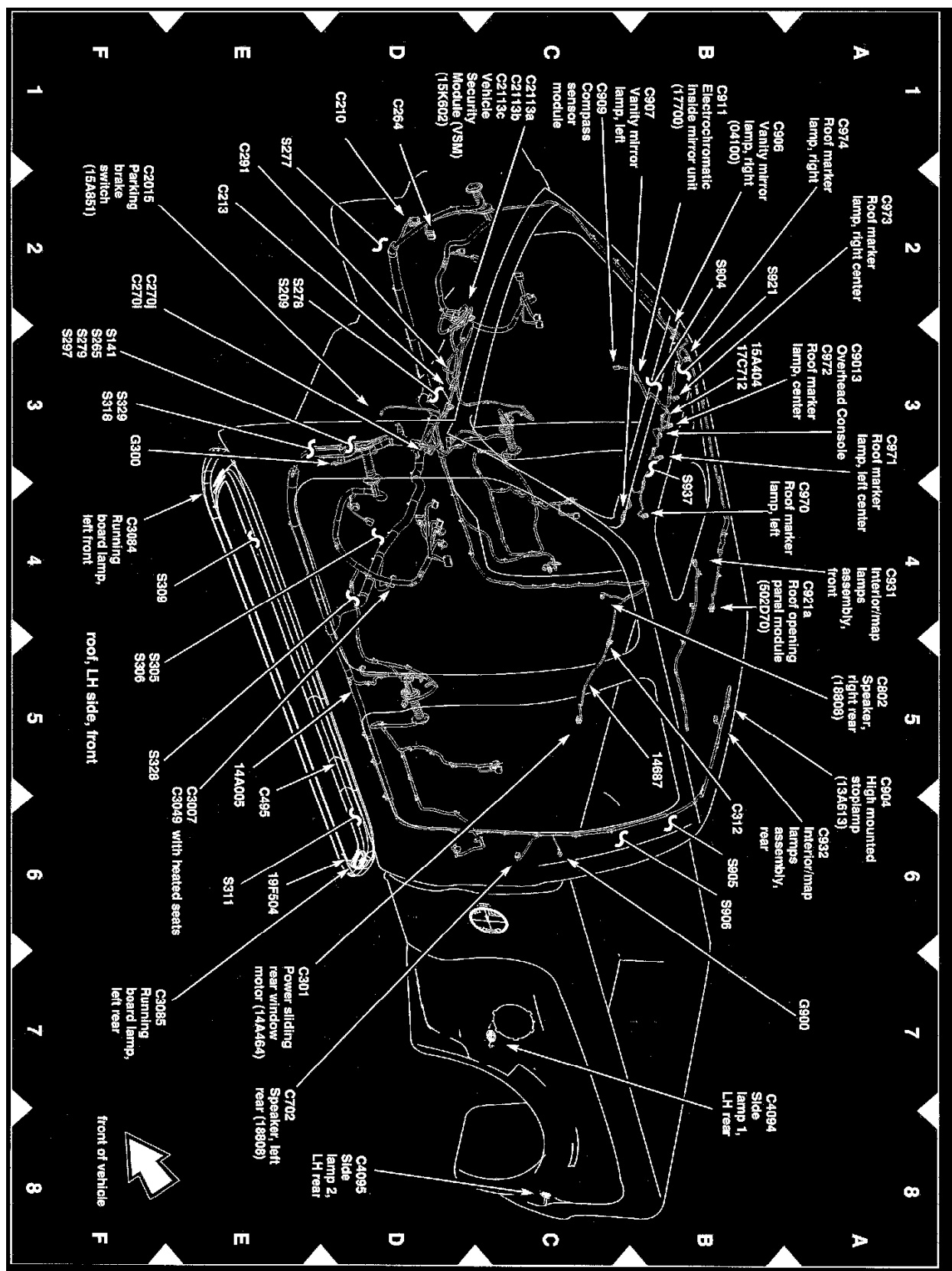
View 151-25 (Right Rear Door, Super Cab)



View 151-26 (Left Rear Door, Crew Cab)

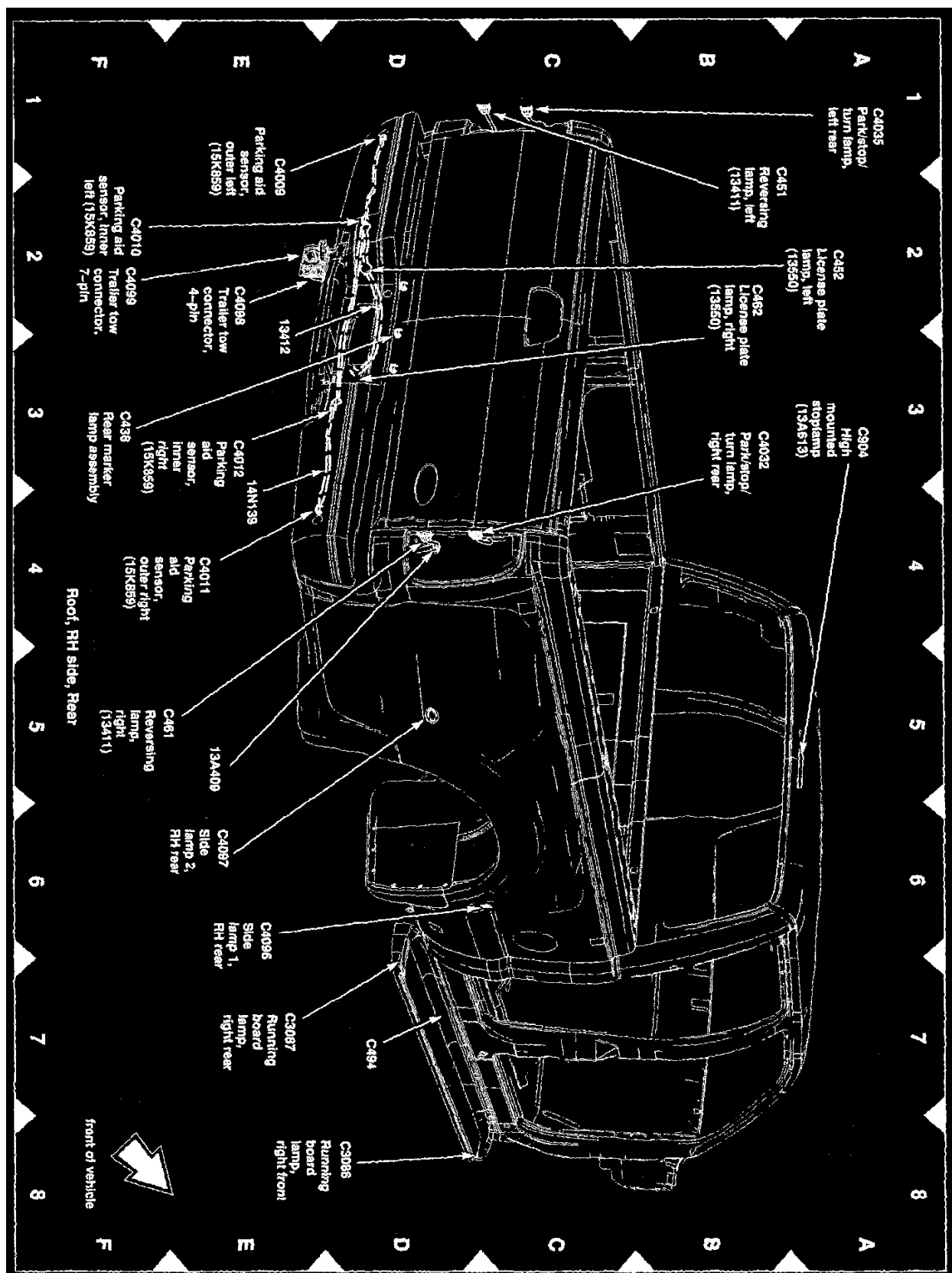


View 151-27 (Right Rear Door, Crew Cab)

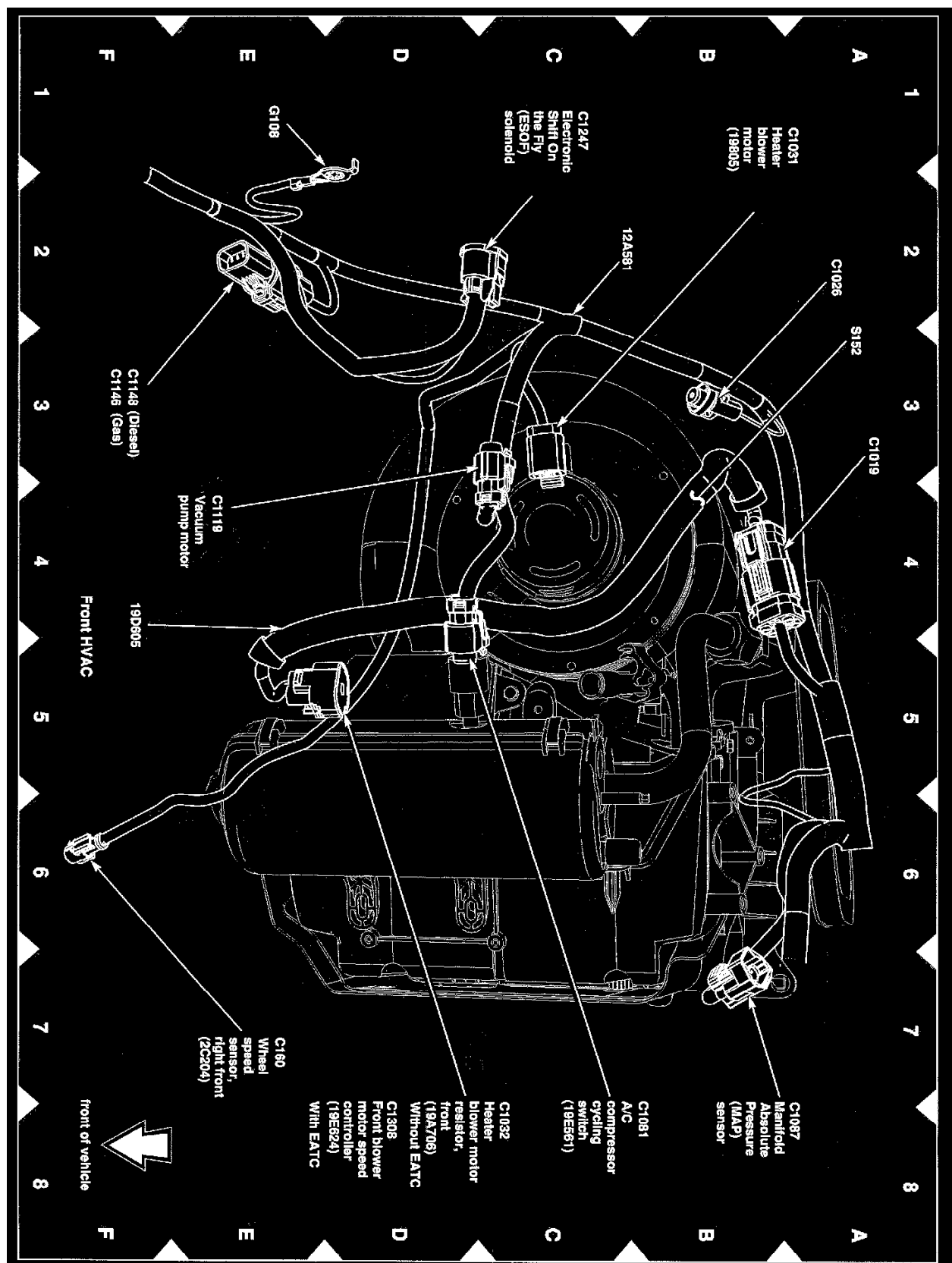


**View 151-28 (Roof, LH Side, Front)**

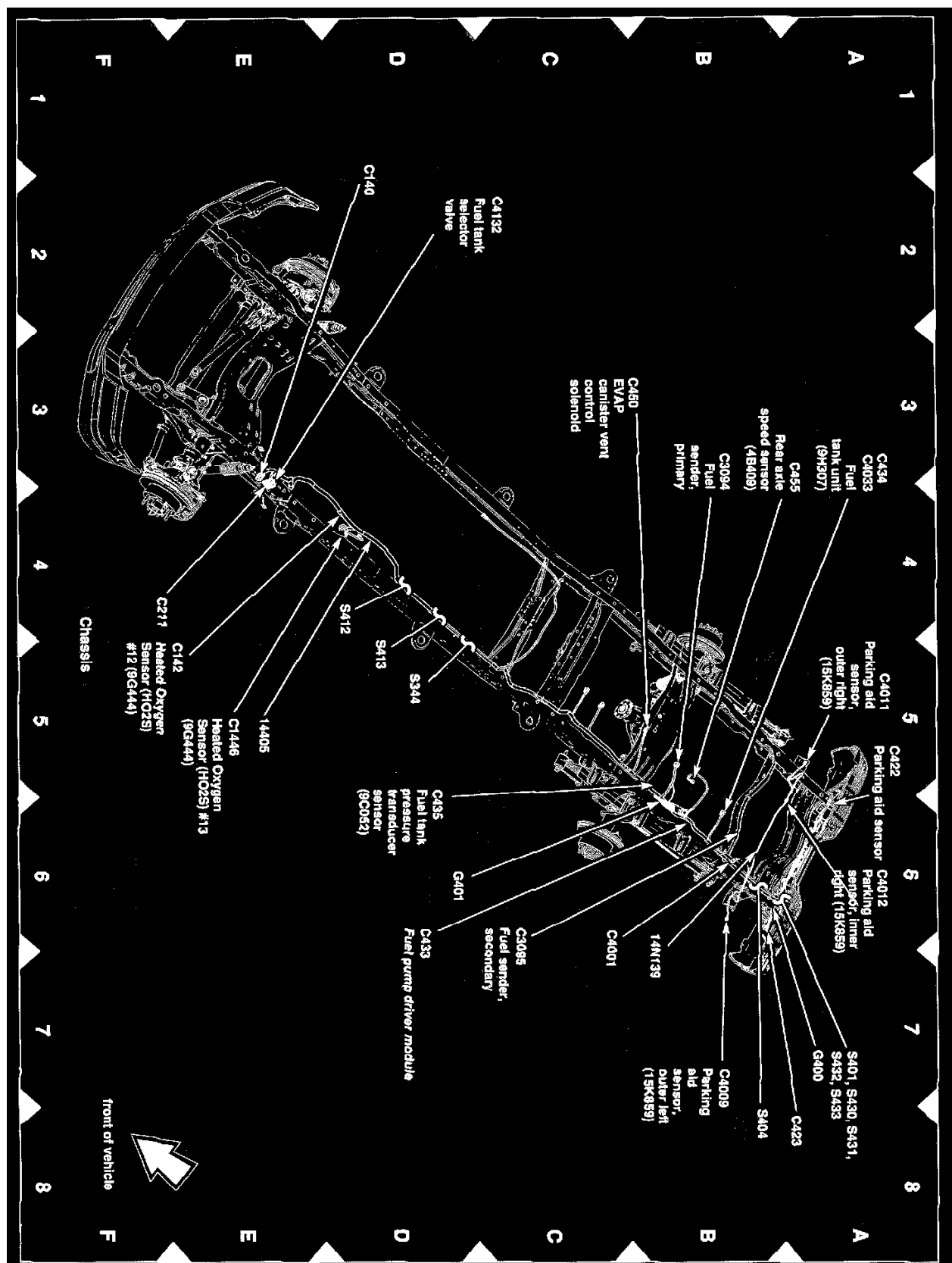




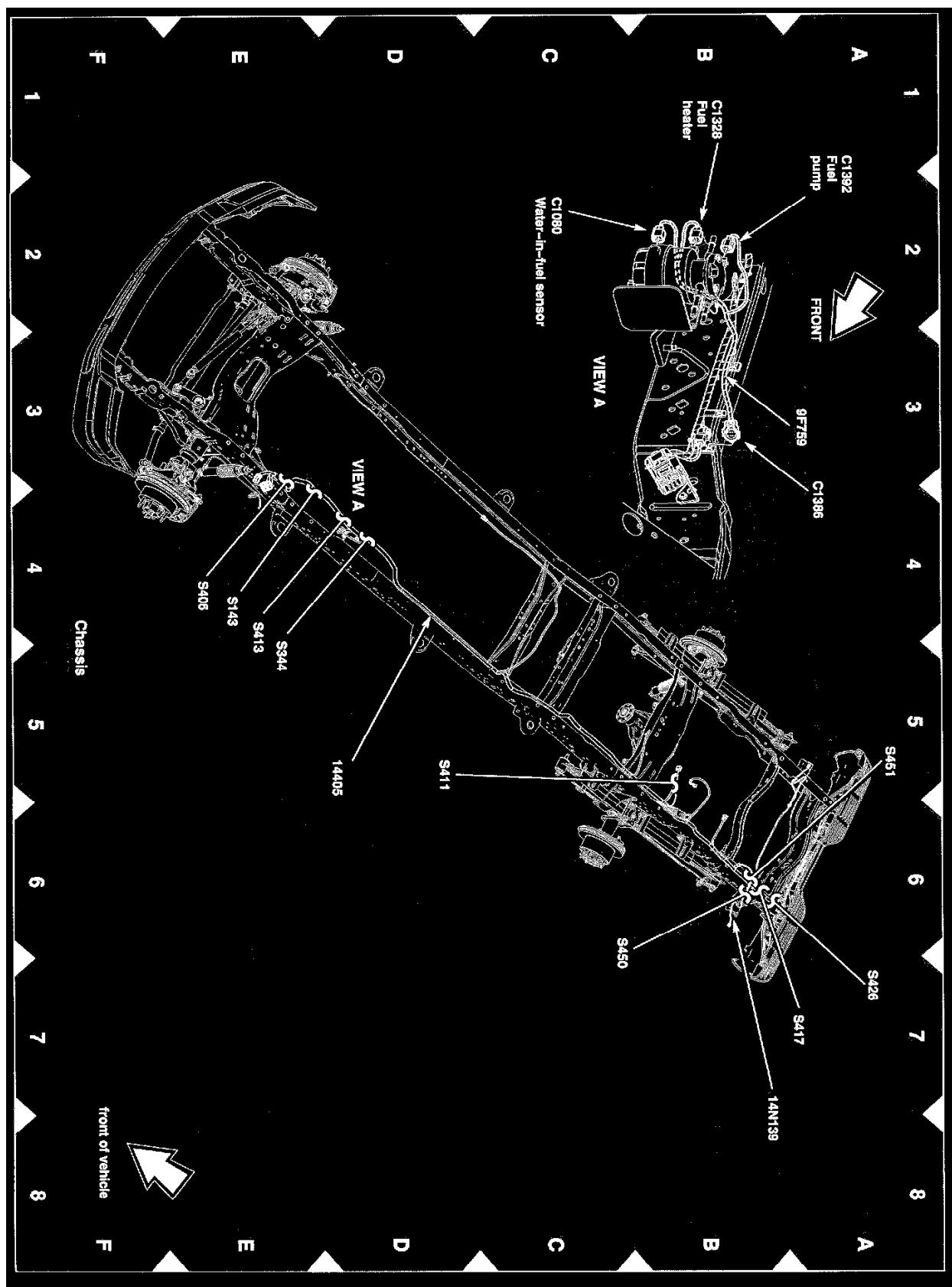
View 151-29 (Roof, RH Side, Rear)



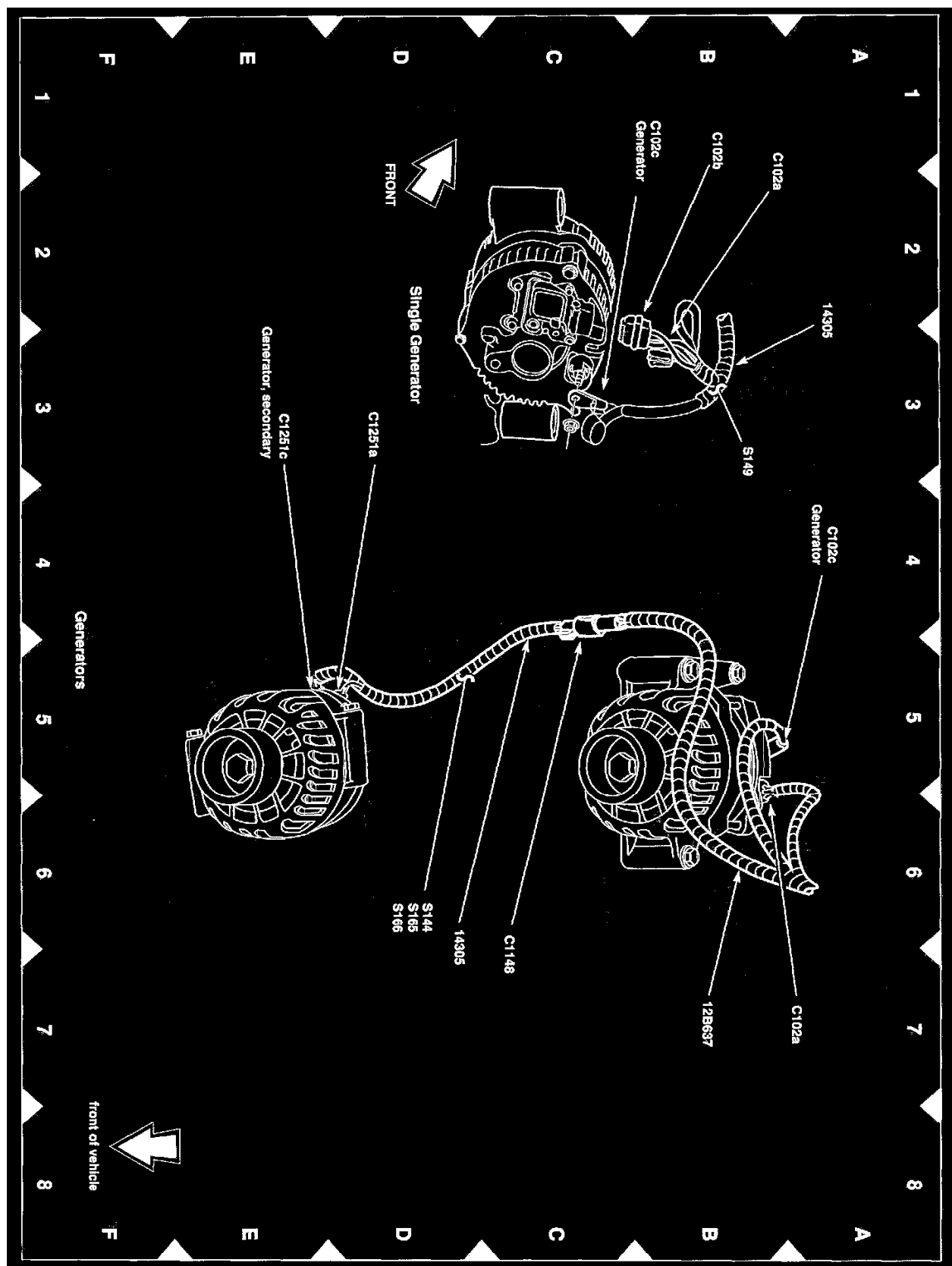
View 151-30 (Front HVAC)



View 151-31 (Chassis)



View 151-32 (Chassis)



View 151-33 (Generators)

## Splice Location Index

**PLEASE NOTE:** If a link on the Splices Location Index to a View is not provided, that means that the Splices and/or View in question does NOT apply to the vehicle model selected.

| Splices  |                                                                                             | View 151-*/coordinates |  |
|----------|---------------------------------------------------------------------------------------------|------------------------|--|
| Location |                                                                                             |                        |  |
| S100     | Wiring harness - Fog lamp jumper (15A211) near T/O to C1045                                 | 2 - F6                 |  |
| S101     | Wiring harness - Fog lamp jumper (15A211) near T/O to C1045                                 | 2 - E7                 |  |
| S102     | Wiring harness - Engine control sensor (12A581) under battery junction box                  | 2 - B7                 |  |
| S103     | Wiring harness - Engine control sensor (12A581) in T/O to battery junction box              | 2 - C8                 |  |
| S103     | Wiring harness - Engine control sensor (12A581) in T/O to battery junction box - diesel     | 4 - B7                 |  |
| S104     | Wiring harness - Engine control sensor (12A581) in T/O to battery junction box - diesel     | 4 - A6                 |  |
| S105     | Wiring harness - Engine control sensor (12A581) under battery junction box - diesel         | 4 - A6                 |  |
| S106     | Wiring harness - Engine control sensor (12A581) in T/O to PCM                               | 2 - B4                 |  |
| S106     | Wiring harness - Engine control sensor (12A581) in T/O to PCM - diesel                      | 4 - D7                 |  |
| S107     | Wiring harness - Engine control sensor (12A581) near T/O to G100                            | 4 - A7                 |  |
| S108     | Wiring harness - Engine control sensor (12A581) under battery junction box                  | 4 - B5                 |  |
| S109     | Wiring harness - Engine control sensor (12A581) in T/O to C135                              | 2 - B8                 |  |
| S110     | Wiring harness - Engine control sensor (12A581) in T/O to C1381a                            | 4 - D7                 |  |
| S111     | Wiring harness - Engine control sensor (12A581) near grommet in dash panel                  | 2 - A7                 |  |
| S112     | Wiring harness - Engine control sensor (12A581) in T/O to C1381a                            | 4 - D7                 |  |
| S113     | Wiring harness - Engine control sensor (12A581) near T/O to G100                            | 2 - A7                 |  |
| S113     | Wiring harness - Engine control sensor (12A581) near T/O to G100 - diesel                   | 4 - A5                 |  |
| S114     | Wiring harness - Engine control sensor (12A581) under battery junction box                  | 4 - A5                 |  |
| S115     | Wiring harness - Engine control sensor (12A581) near T/O to C124                            | 2 - A5                 |  |
| S116     | Wiring harness - Engine control sensor (12A581) near T/O to C124 - diesel                   | 4 - A4                 |  |
| S117     | Wiring harness - Engine control sensor (12A581) in T/O to C1381a - diesel                   | 4 - D7                 |  |
| S118     | Wiring harness - Engine control sensor (12A581) in T/O to C1381a - diesel                   | 4 - D7                 |  |
| S119     | Wiring harness - Engine control sensor (12A581) in T/O to C1381a - diesel                   | 4 - D7                 |  |
| S120     | Wiring harness - Engine control sensor (12A581) in T/O to battery junction box - diesel     | 4 - D7                 |  |
| S121     | Wiring harness - Main (14401) in T/O to C211                                                | 4 - C7                 |  |
| S122     | Wiring harness - Engine control sensor (12A581) in T/O to C140                              | 17 - F6                |  |
| S123     | Wiring harness - Engine control sensor (12A581) near T/O to C1756 - Gasoline                | 2 - C8                 |  |
| S123     | Wiring harness - Engine control sensor (12A581) near T/O to C1298 - diesel                  | 2 - B4                 |  |
| S124     | Wiring harness - Engine control sensor (12A581) near T/O to G100                            | 4 - D7                 |  |
| S124     | Wiring harness - Engine control sensor (12A581) near T/O to G100 - diesel                   | 4 - D7                 |  |
| S125     | Wiring harness - Engine control sensor (12A581) near T/O to G100 - diesel                   | 2 - B8                 |  |
| S126     | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1273a - diesel | 4 - A5                 |  |
| S127     | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1273a - diesel | 13 - D8                |  |
|          | Wiring harness - Back up lamp switch to rear lamp feed (15525) in T/O to C1385 - Diesel     | 13 - D8                |  |
|          |                                                                                             | 14 - C7                |  |

S100-S127

| Splices |                                                                                                                                        | View 151-*/coordinates |                                                                                                           |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------|
|         | Location                                                                                                                               |                        |                                                                                                           |
| S127    | Wiring harness - Back up lamp switch to rear lamp feed (15525) near T/O to C1107 . . . . 14 - E4                                       | S139                   | Wiring harness - Engine control sensor (12A581) near T/O to G100 . . . . . 4 - A6                         |
| S127    | Wiring harness - Back up lamp switch to rear lamp feed (15525) near T/O to C169 - manual transmission . . . . . 14 - D2                | S140                   | Wiring harness - Engine control sensor (12A581) in T/O to C135 . . . . . 17 - F6                          |
| S128    | Wiring harness - Back-up lamp switch to rear lamp feed (15525) near T/O to C1107 . . . . 14 - E4                                       | S141                   | Wiring harness - Body main (14A005) near T/O to G300 . . . . . 28 - F3                                    |
| S128    | Wiring harness - Back up lamp switch to rear lamp feed (15525) in T/O to C1385 - Diesel . . . . . 14 - C7                              | S142                   | Wiring harness - Engine control sensor (12A581) in T/O to C135 . . . . . 4 - C7                           |
| S129    | Wiring harness - Back-up lamp switch to rear lamp feed (15525) in T/O to C1385 . . . . . 14 - D7                                       | S143                   | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C188 - 5.4L . . . . . 9 - C2  |
| S130    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1073 . . 10 - A7                                          | S143                   | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C188 - 6.8L . . . . . 10 - E7 |
| S131    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1073 . . 10 - A7                                          | S144                   | Wiring harness - Alternator rectifier system (14305) near T/O to C1251a . . . . . 33 - D6                 |
| S132    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C114 . . . . 9 - B6                                        | S145                   | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C175a . . . 9 - B6            |
| S133    | Wiring harness - Engine control sensor (12B637) under battery junction box . . . . . 2 - B7                                            | S146                   | Wiring harness - Engine control sensor (12A581) in T/O to C135 . . . . . 2 - A5                           |
| S134    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C118 . . . . 7 - B7                                        | S147                   | Wiring harness - Engine control sensor and fuel charge near T/O to C1273a - Diesel . . 13 - D8            |
| S135    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C183 . . . . 9 - D7                                        | S147                   | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1073 . . 10 - A7             |
| S136    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C113 . . . . 9 - D7                                        | S148                   | Wiring harness - Main (14401) in T/O to C1445 . . . . . 17 - F6                                           |
| S137    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C188 - diesel . . . . . 10 - A7                            | S149                   | Wiring harness - Engine control sensor and fuel charge near T/O to C1273a - Diesel . . 13 - D7            |
| S138    | Wiring harness - Back up lamp switch to rear lamp feed (15525) near T/O to C1107 . . . . 14 - C6                                       | S149                   | Wiring harness - Alternator rectifier system (14305) Cable assembly, battery positive . . 33 - B3         |
| S138    | Wiring harness - Back up lamp switch to rear lamp feed (15525) near T/O to C350a - with manual transmission, or ESOF . . . . . 14 - D1 | S149                   | Wiring harness - Engine control sensor (12A581) near T/O to C128 . . . . . 4 - B4                         |
| S139    | Wiring harness - Back up lamp switch to rear lamp feed (15525) in T/O to C168 . . . . . 4 - A6                                         | S150                   | Wiring harness - A/C extension (19D605) in T/O to C1032 . . . . . 30 - A3                                 |
|         |                                                                                                                                        | S160                   | Wiring harness - Engine control sensor (12A581) under battery junction box . . . . 4 - A7                 |
|         |                                                                                                                                        | S162                   | Wiring harness - Engine control sensor (12A581) near T/O to G100 . . . . . 2 - A7                         |
|         |                                                                                                                                        | S162                   | Wiring harness - Engine control sensor (12A581) near T/O to G100 - diesel . . . . 4 - A5                  |

| Splices | Location                                                                                       | View 151-*/coordinates |      |                                                                                    |         |
|---------|------------------------------------------------------------------------------------------------|------------------------|------|------------------------------------------------------------------------------------|---------|
| S163    | Wiring harness - Back up lamp switch to rear lamp feed (15525) in T/O to auxiliary relay box 3 | 2 - A6                 | S197 | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1381c | 13 - A2 |
| S164    | Wiring harness - Engine control sensor (12A581) in T/O to C140                                 | 2 - C8                 | S201 | Wiring harness - Main (14401) near T/O to instrument cluster                       | 17 - B8 |
| S165    | Wiring harness - Alternator rectifier system (14305) near T/O to C1251a                        | 33 - D6                | S202 | Wiring harness - Main (14401) in T/O to C2041                                      | 17 - E4 |
| S166    | Wiring harness - Alternator rectifier system (14305) near T/O to C1251a                        | 33 - D6                | S203 | Wiring harness - Main (14401) near T/O to instrument cluster                       | 17 - B8 |
| S170    | Wiring harness - Engine control sensor (12A581) under battery junction box                     | 4 - B5                 | S204 | Wiring harness - Main (14401) near T/O to C264                                     | 17 - A2 |
| S171    | Wiring harness - Engine control sensor (12A581) in T/O to battery junction box                 | 2 - C8                 | S205 | Wiring harness - Main (14401) near T/O to C278                                     | 17 - E8 |
| S171    | Wiring harness - Engine control sensor (12A581) in T/O to battery junction box - diesel        | 4 - C7                 | S206 | Wiring harness - Main (14401) near T/O to C218b                                    | 17 - A5 |
| S174    | Wiring harness - Engine control sensor (12A581) near T/O to G100                               | 4 - A6                 | S207 | Wiring harness - Main (14401) near T/O to C250                                     | 17 - C8 |
| S180    | Wiring harness - Engine control sensor (12A581) near T/O to G108                               | 2 - D2                 | S208 | Wiring harness - Main (14401) near T/O to instrument cluster                       | 17 - B8 |
| S180    | Wiring harness - Engine control sensor (12A581) near T/O to G108                               | 4 - D2                 | S209 | Wiring harness - Body main (14A005) in T/O to C270j                                | 28 - E2 |
| S182    | Wiring harness - Engine control sensor (12A581) near T/O to G100                               | 4 - A6                 | S210 | Wiring harness - Main (14401) near T/O to C250                                     | 17 - C8 |
| S190    | Wiring harness - Engine control sensor and fuel charge near T/O to C1064                       | 12 - E3                | S211 | Wiring harness - Main (14401) near T/O to C264                                     | 17 - C1 |
| S192    | Wiring harness - Engine control sensor and fuel charge near T/O to C1064                       | 12 - E3                | S213 | Wiring harness - Main (14401) in T/O to Data Link Connector (DLC) (14489)          | 17 - E5 |
| S193    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to 1271               | 12 - F5                | S214 | Wiring harness - Main (14401) near T/O to C278                                     | 17 - C8 |
| S194    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1236              | 12 - A6                | S215 | Wiring harness - Main (14401) near T/O to C205a                                    | 17 - C8 |
| S195    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1236              | 12 - A6                | S216 | Wiring harness - Main (14401) near T/O to C218b                                    | 17 - A4 |
| S196    | Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C1236              | 12 - A6                | S217 | Wiring harness - Main (14401) near T/O to instrument cluster                       | 17 - A5 |
|         |                                                                                                |                        | S218 | Wiring harness - Main (14401) near T/O to instrument cluster                       | 17 - C8 |
|         |                                                                                                |                        | S219 | Wiring harness - Main (14401) near T/O to C286                                     | 17 - A4 |
|         |                                                                                                |                        | S220 | Wiring harness - Main (14401) in T/O to Data Link Connector (DLC) (14489)          | 17 - E5 |

S163-S220



| Splices |                                                                           | View 151-*/coordinates |                                                                                                  |
|---------|---------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------|
|         | Location                                                                  |                        |                                                                                                  |
| S221    | Wiring harness - Main (14401) near T/O to C2186                           | S248                   | Wiring harness - Main (14401) in T/O to C228a, C228b                                             |
| S222    | Wiring harness - Main (14401) near T/O to C202a                           | S249                   | Wiring harness - Main (14401) in T/O to Auxiliary relay box 1                                    |
| S223    | Wiring harness - Main (14401) near T/O to C218b                           | S250                   | Wiring harness - Back up lamp switch to rear lamp feed (15525) near T/O to auxiliary relay box 3 |
| S225    | Wiring harness - Main (14401) near T/O to instrument cluster              | S252                   | Wiring harness - Main (14401) near T/O to C218b                                                  |
| S226    | Wiring harness - Main (14401) near T/O to C2041                           | S253                   | Wiring harness - Main (14401) in T/O to instrument cluster                                       |
| S228    | Wiring harness - Main (14401) near T/O to instrument cluster              | S254                   | Wiring harness - Main (14401) in T/O to instrument cluster                                       |
| S229    | Wiring harness - Main (14401) near T/O to instrument cluster              | S257                   | Wiring harness - Main (14401) near T/O to C289                                                   |
| S230    | Wiring harness - Main (14401) near T/O to C2041                           | S258                   | Wiring harness - Main (14401) near T/O to C278                                                   |
| S232    | Wiring harness - Main (14401) near T/O to auxiliary relay box 1           | S259                   | Wiring harness - Main (14401) near T/O to C278                                                   |
| S233    | Wiring harness - Body main (14A005) near grommet, right front door        | S260                   | Wiring harness - Main (14401) near T/O to C278                                                   |
| S234    | Wiring harness - Main (14401) near T/O to C278                            | S265                   | Wiring harness - Body main (14A005) near T/O to G300                                             |
| S235    | Wiring harness - Main (14401) near T/O to auxiliary relay box 1           | S268                   | Wiring harness - Main (14401) in T/O to instrument cluster                                       |
| S236    | Wiring harness - Body main (14A005) near grommet, right front door        | S271                   | Wiring harness - Main (14401) near T/O to instrument cluster                                     |
| S240    | Wiring harness - Main (14401) near T/O to C278                            | S272                   | Wiring harness - Main (14401) near T/O to C205a                                                  |
| S242    | Wiring harness - Main (14401) in T/O to Data Link Connector (DLC) (14489) | S277                   | Wiring harness - Body main (14A005) near T/O to C291                                             |
| S244    | Wiring harness - Main (14401) near T/O to C278                            | S278                   | Wiring harness - Body main (14A005) near T/O to C291                                             |
| S245    | Wiring harness - Main (14401) near T/O to C2041                           | S279                   | Wiring harness - Body main (14A005) near T/O to G300                                             |
| S247    | Wiring harness - Main (14401) near T/O to C256                            |                        |                                                                                                  |

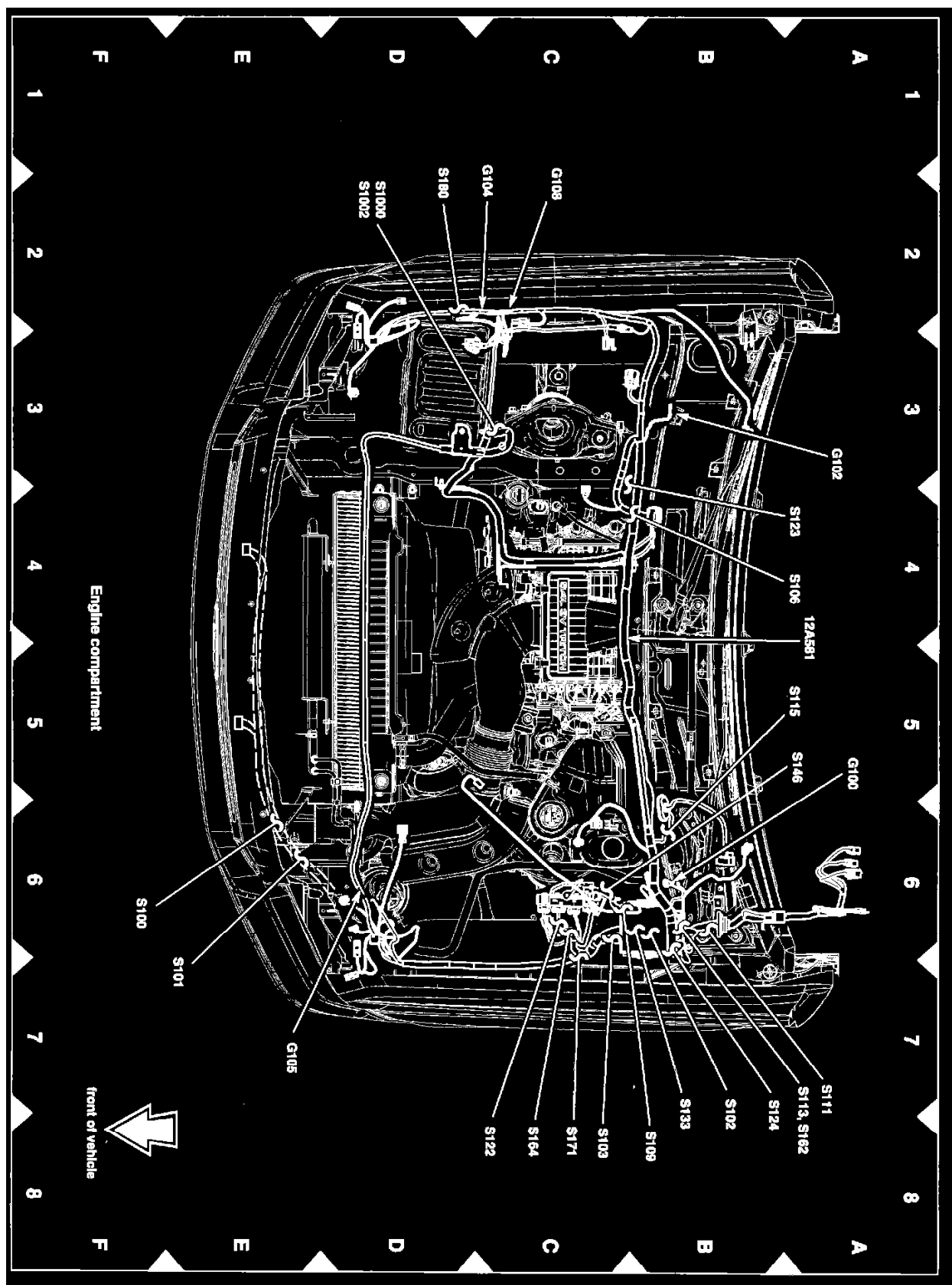
S221-S279

| Splices  |                                                                           | View 151-*/coordinates |      |                                                                               |         |
|----------|---------------------------------------------------------------------------|------------------------|------|-------------------------------------------------------------------------------|---------|
| Location |                                                                           |                        |      |                                                                               |         |
| S289     | Wiring harness - Body main (14A005) near T/O to G300                      | 17 - B7                | S318 | Wiring harness - Body main (14A005) near T/O to G300                          | 28 - F3 |
| S290     | Wiring harness - Main (14401) near T/O to C290a                           | 17 - A4                | S327 | Wiring harness - Seat regulator (14B084) near T/O to C320 - with heated seats | 20 - E6 |
| S291     | Wiring harness - Main (14401) near T/O to instrument cluster              | 17 - A5                | S328 | Wiring harness - Seat regulator (14B084) near T/O to C357                     | 20 - E6 |
| S297     | Wiring harness - Body main (14A005) near T/O to G300                      | 28 - F3                | S329 | Wiring harness - Body main (14A005) near T/O to G300                          | 28 - F5 |
| S298     | Wiring harness - Main (14401) in T/O to instrument cluster                | 17 - B7                | S332 | Wiring harness - Body main (14A005) near T/O to C307                          | 28 - F5 |
| S299     | Wiring harness - Main (14401) in T/O to C2041                             | 17 - E4                | S335 | Wiring harness - Body main (14A005) near T/O to C3049 - with heated seats     | 28 - F5 |
| S300     | Wiring harness - Body main (14A005) near T/O to G900                      | 17 - B7                | S339 | Wiring harness - Body main (14A005) near T/O to G300                          | 28 - F3 |
| S301     | Wiring harness - Passenger, driver seat jumper (14B084) near T/O to C357  | 20 - C3                | S344 | Wiring harness - Seat regulator (14B084) near T/O to C357                     | 20 - D7 |
| S304     | Wiring harness - Body main (14A005) near T/O to C340 - with heated seats  | 19 - E2                | S344 | Wiring harness - Seat regulator (14B084) near T/O to C334                     | 21 - F4 |
| S304     | Wiring harness - Body main (14A005) near T/O to C802                      | 19 - E2                | S344 | Wiring harness - Tail lamps (14405) near T/O to C494                          | 31 - D5 |
| S305     | Wiring harness - Body main (14A005) near T/O to C3007                     | 28 - F5                | S344 | Wiring harness - Tail lamps (14405) near T/O to C494                          | 31 - D5 |
| S305     | Wiring harness - Body main (14A005) near T/O to C3049 - with heated seats | 28 - F5                | S344 | Wiring harness - Tail lamps (14405) near T/O to C494                          | 31 - D5 |
| S306     | Wiring harness - Body main (14A005) near T/O to C3007                     | 28 - F5                | S350 | Wiring harness - Body main (14A005) near T/O to C494                          | 32 - E4 |
| S306     | Wiring harness - Body main (14A005) near T/O to C3049 - with heated seats | 28 - F5                | S350 | Wiring harness - Body main (14A005) near T/O to C3049                         | 19 - E1 |
| S309     | Wiring harness - Running board lamps (19F504) near T/O to C3084           | 28 - E4                | S355 | Wiring harness - Passenger, driver seat jumper (14B084) near T/O to C334      | 21 - E6 |
| S311     | Wiring harness - Running board lamps (19F504) near T/O to C3085           | 28 - E6                | S400 | Wiring harness - Tail lamps (14405) near T/O to C3095                         | 31 - D5 |
| S312     | Wiring harness - Running board lamps (19F504) near T/O to C3086           | 28 - D7                | S401 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
| S313     | Wiring harness - Running board lamps (19F504) near T/O to C3087           | 29 - D7                | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          | 31 - A7 |
|          |                                                                           |                        | S402 | Wiring harness - Tail lamps (14405) near T/O to G400                          |         |

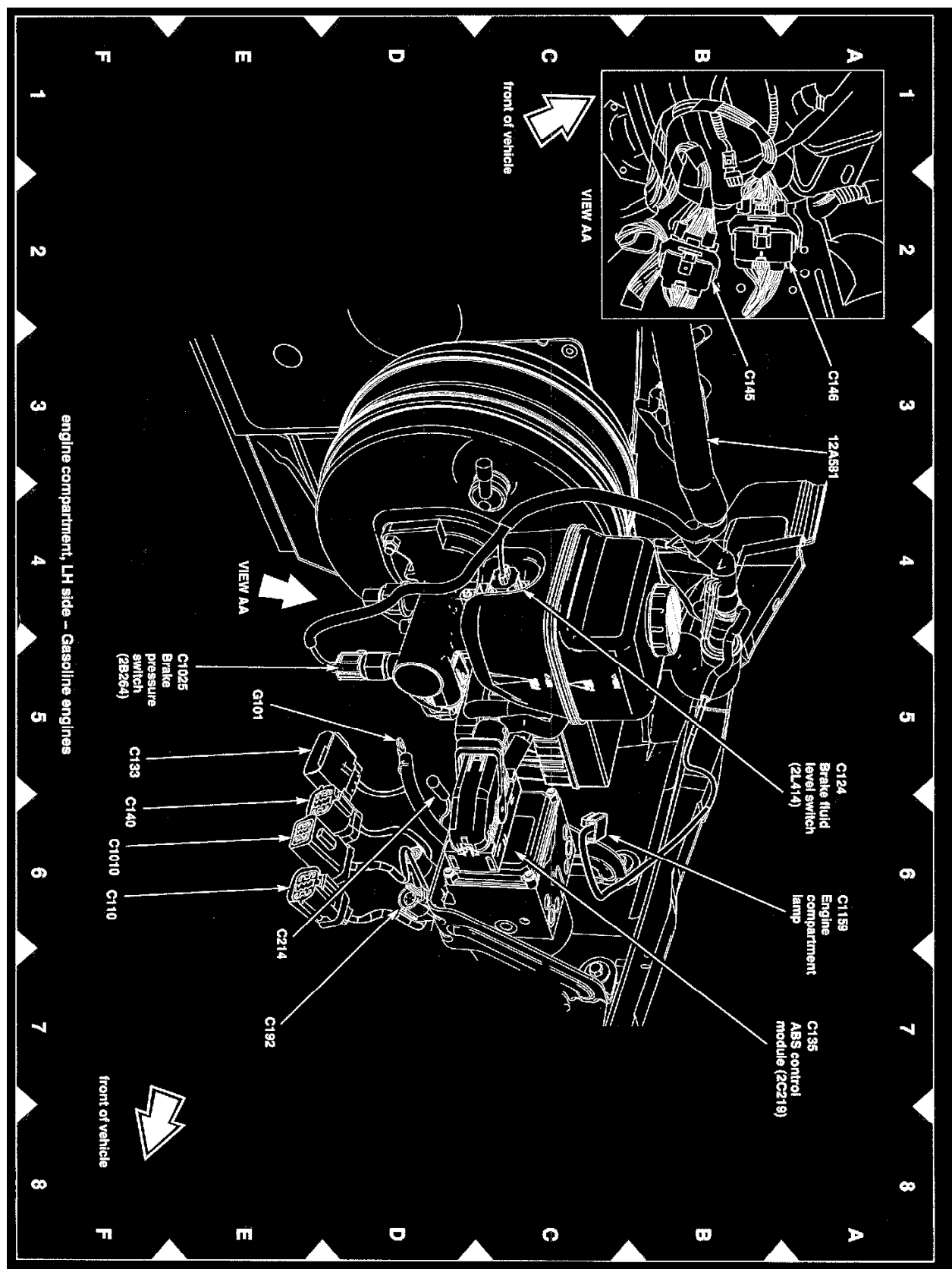
S289-S408

| Splices |                                                                                                           | View 151-*/coordinates |                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|
|         | Location                                                                                                  |                        |                                                                                     |
| S409    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C411                                         | S433                   | Wiring harness - Trailer lamp feed (14405)<br>near T/O to C4099                     |
| S410    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C410                                         | S450                   | Wiring harness - Backup alarm jumper<br>(14N139) near T/O to C4001                  |
| S411    | Wiring harness - Tail lamps (14405) near T/O<br>to C433                                                   | S451                   | Wiring harness - Backup alarm jumper<br>(14N139) near T/O to C4001                  |
| S412    | Wiring harness - Tail lamps (14405) near T/O<br>to C140                                                   | S463                   | Wiring harness - Rear license lamps (13412)<br>in T/O to C462                       |
| S413    | Wiring harness - Tail lamps (14405) near T/O<br>to C140                                                   | S501                   | Wiring harness - Body main (14A005) near<br>T/O to C505                             |
| S413    | Wiring harness - Tail lamps (14405) near T/O<br>to C140                                                   | S639                   | Wiring harness - Body main (14A005) near<br>T/O to C605                             |
| S417    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C408 - with box,<br>with dual rear wheels    | S901                   | Wiring harness - Overhead console (17C712)<br>near T/O to C973                      |
| S417    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C465 - with box,<br>without dual rear wheels | S904                   | Wiring harness - Marker lamps (15A404) near<br>T/O to C973 - with roof marker lamps |
| S417    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C465 - with box,<br>without dual rear wheels | S904                   | Wiring harness - Vanity mirror lamp<br>(17C712) near T/O to C974                    |
| S417    | Wiring harness - Tail lamps (14405) near T/O<br>to C423 - without box                                     | S905                   | Wiring harness - Body main (14A005) near<br>T/O to C904 - super cab                 |
| S417    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C4002 - F-450                                | S905                   | Wiring harness - Body main (14A005) near<br>T/O to C932                             |
| S418    | Wiring harness - Rear license lamps (13412)<br>in T/O to C462                                             | S921                   | Wiring harness - Body main (14A005) near<br>T/O to C931                             |
| S419    | Wiring harness - Rear license lamps (13412)<br>in T/O to C462                                             | S937                   | Wiring harness - Vanity mirror lamp<br>(17C712) near T/O to C911                    |
| S426    | Wiring harness - Rear lamp connector<br>(13A409) near T/O to C408                                         | S1000                  | Wiring harness - Engine control sensor<br>(12A581) near C1100a - diesel             |
| S426    | Wiring harness - Tail lamps (14405) near T/O<br>to C423 - chassis cab                                     | S1000                  | Wiring harness - Engine control sensor<br>(12A581) near C1100a                      |
| S430    | Wiring harness - Trailer lamp feed (14405)<br>near T/O to C4099                                           | S1002                  | Wiring harness - Engine control sensor<br>(12A581) near C1100a - diesel             |
| S431    | Wiring harness - Trailer lamp feed (14405)<br>near T/O to C4099                                           | S1002                  | Wiring harness - Engine control sensor<br>(12A581) near C1100a                      |
| S432    | Wiring harness - Trailer lamp feed (14405)<br>near T/O to C4099                                           | S2300                  | Wiring harness - Relay feed (14A303) near<br>upfitter relay box                     |

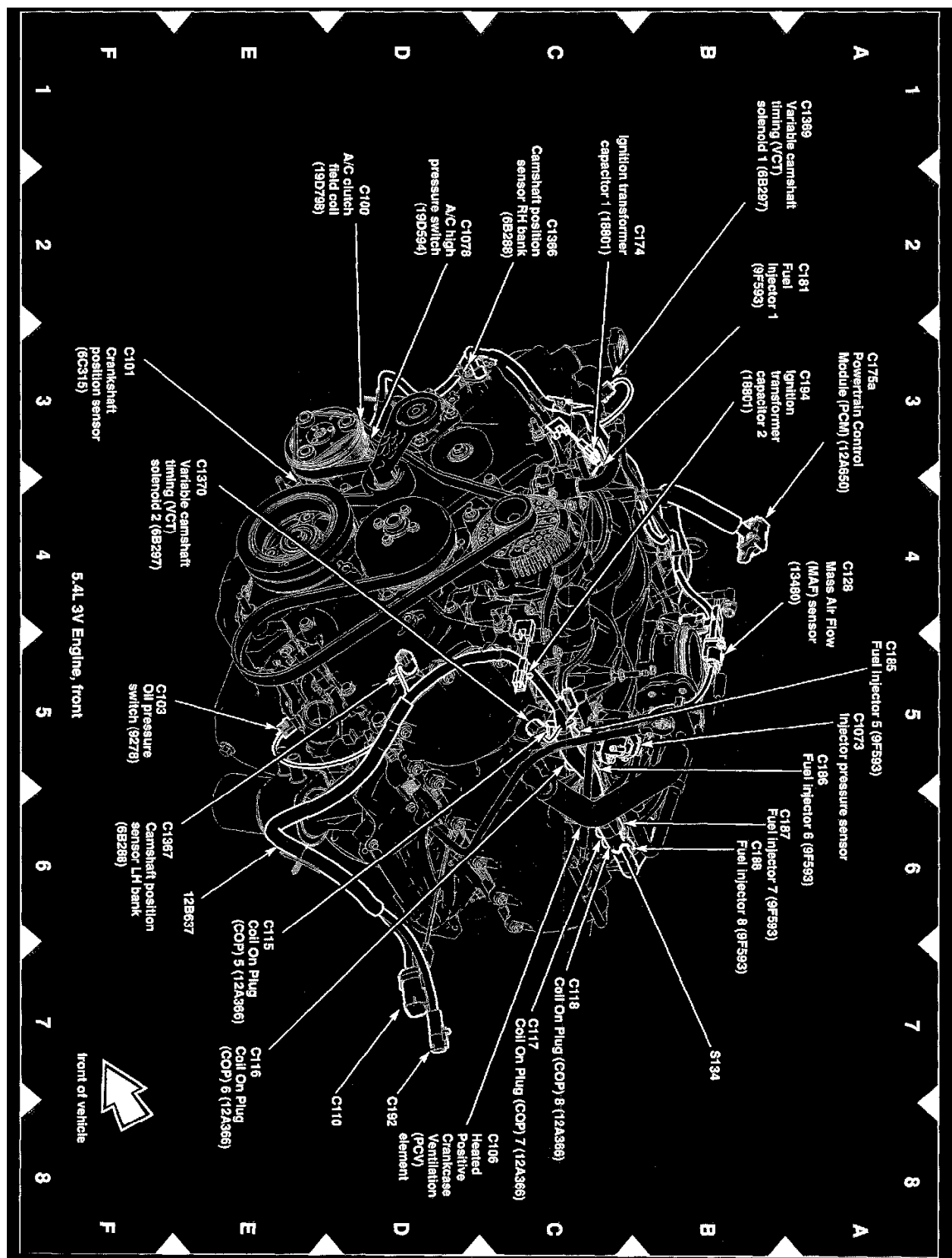




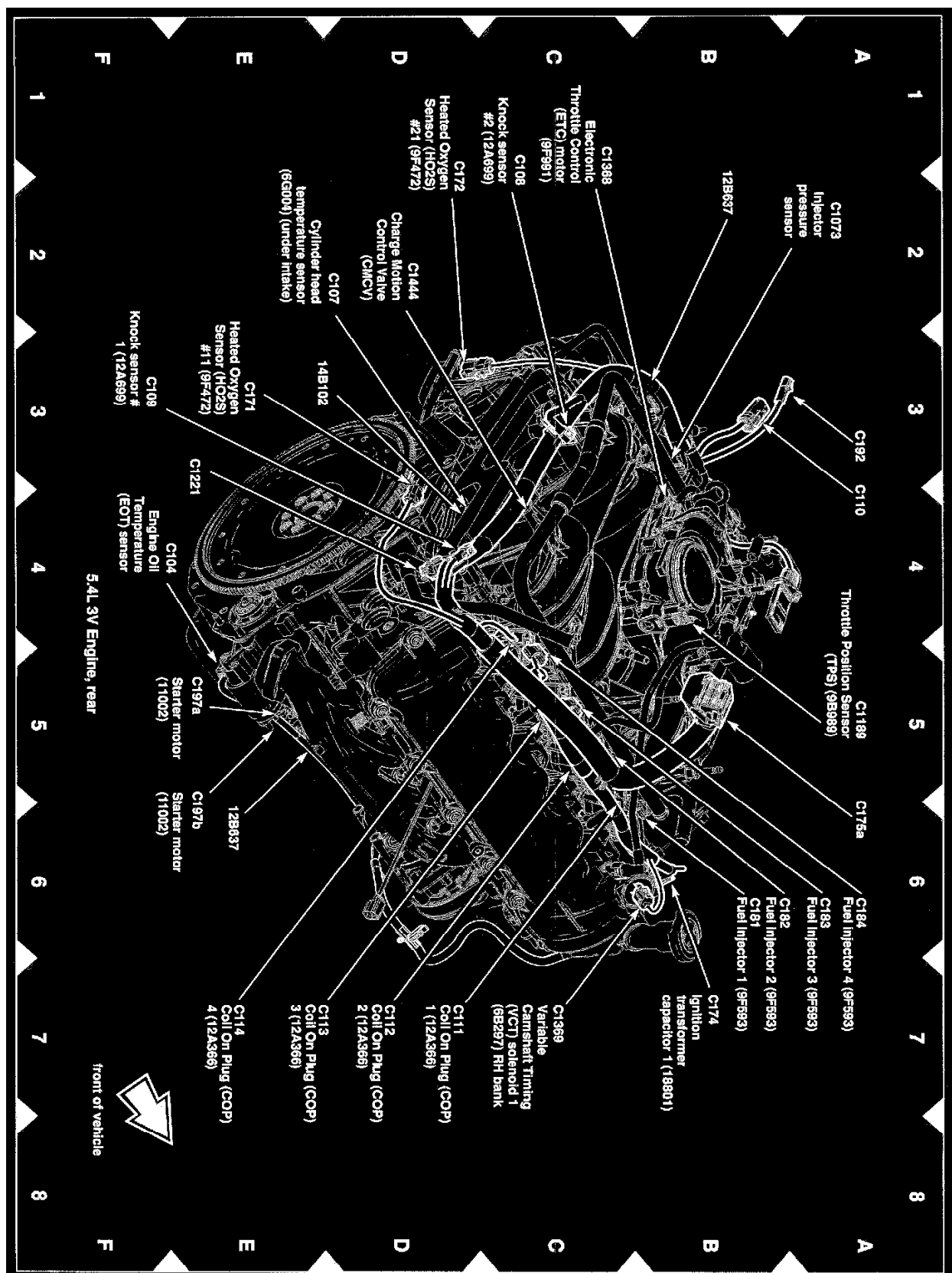
View 151-2 (Engine Compartment)



View 151-6 (Engine Compartment, LH Side)

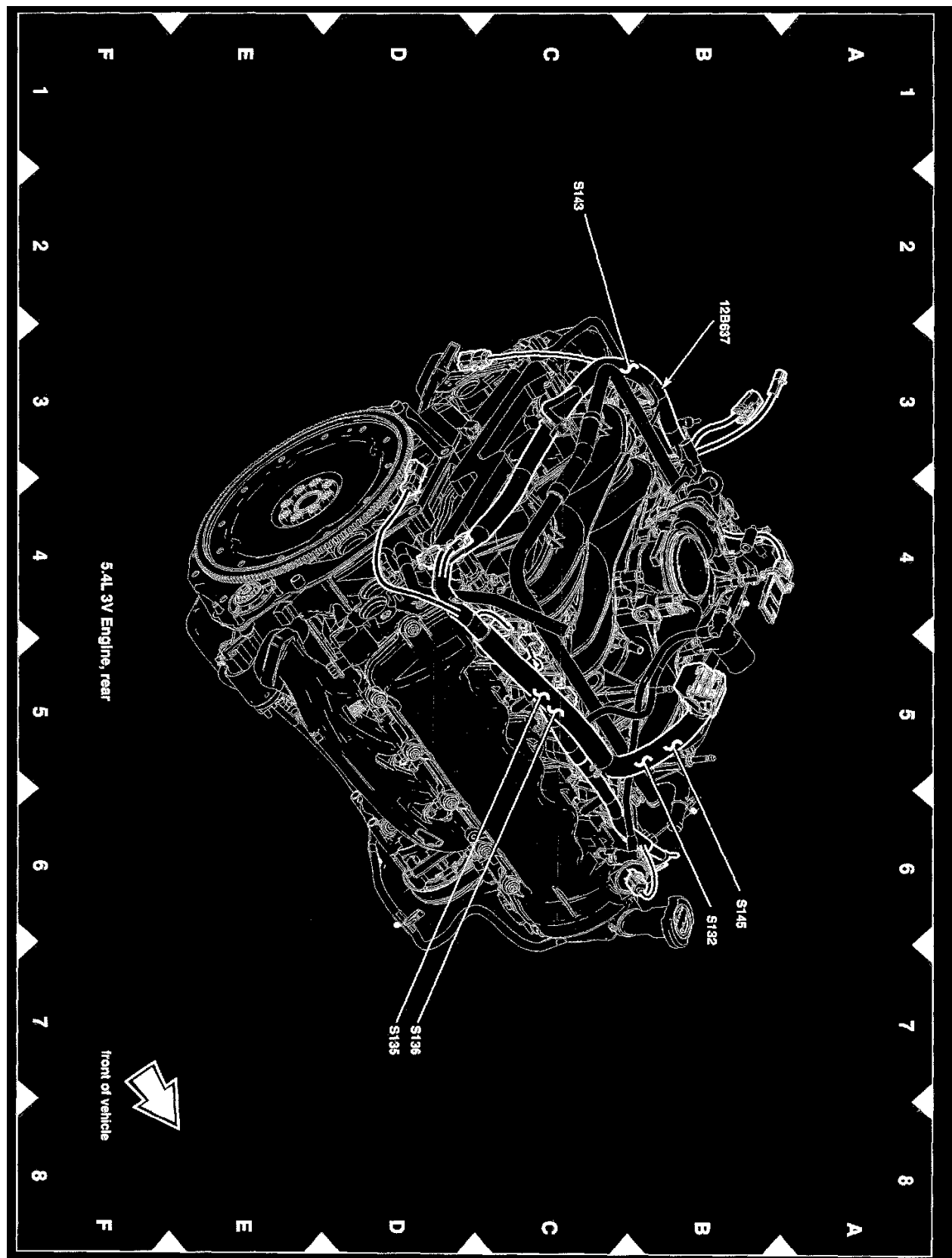


View 151-7 (Engine, Front)

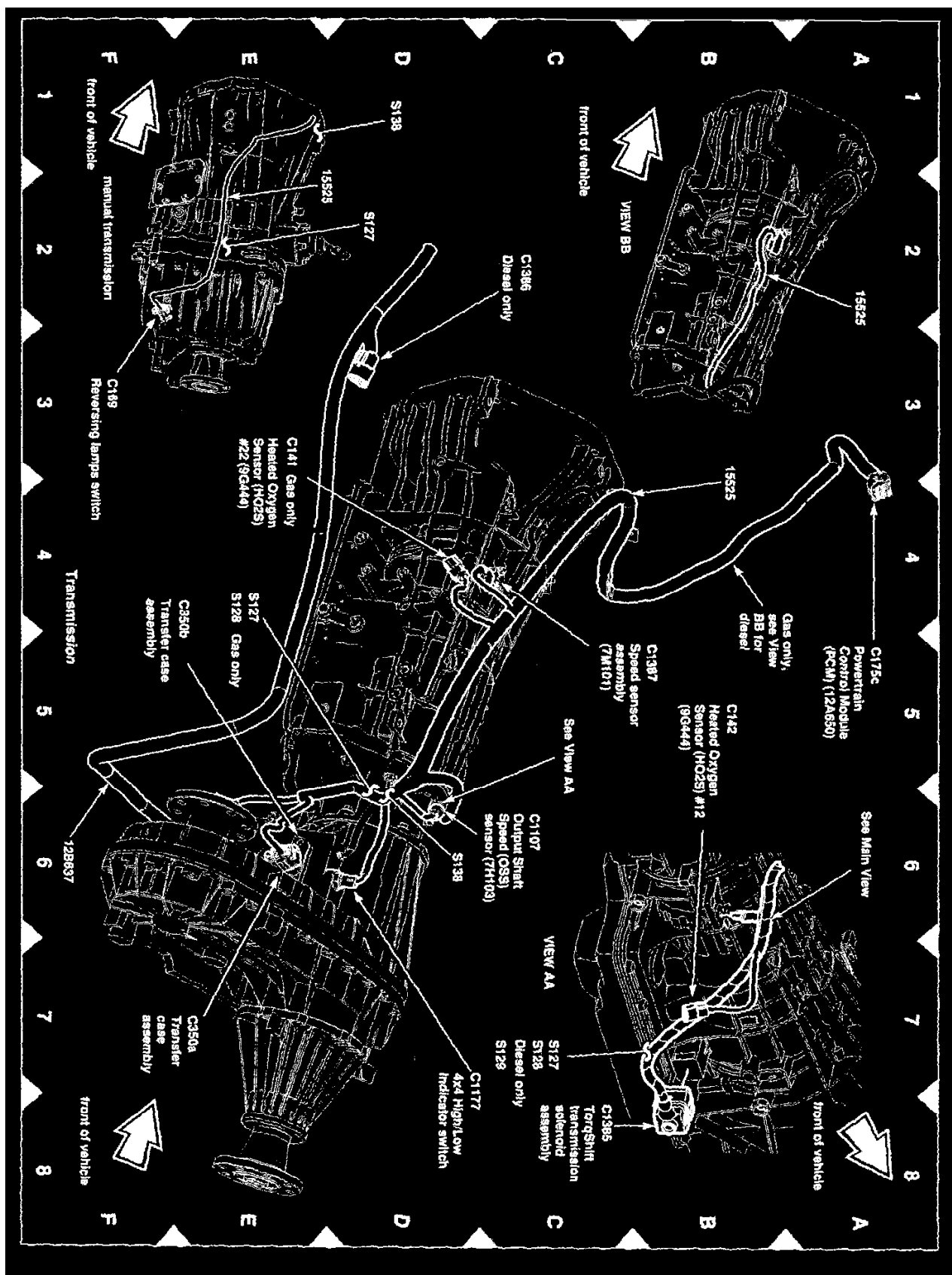


View 151-8 (Engine, Rear)

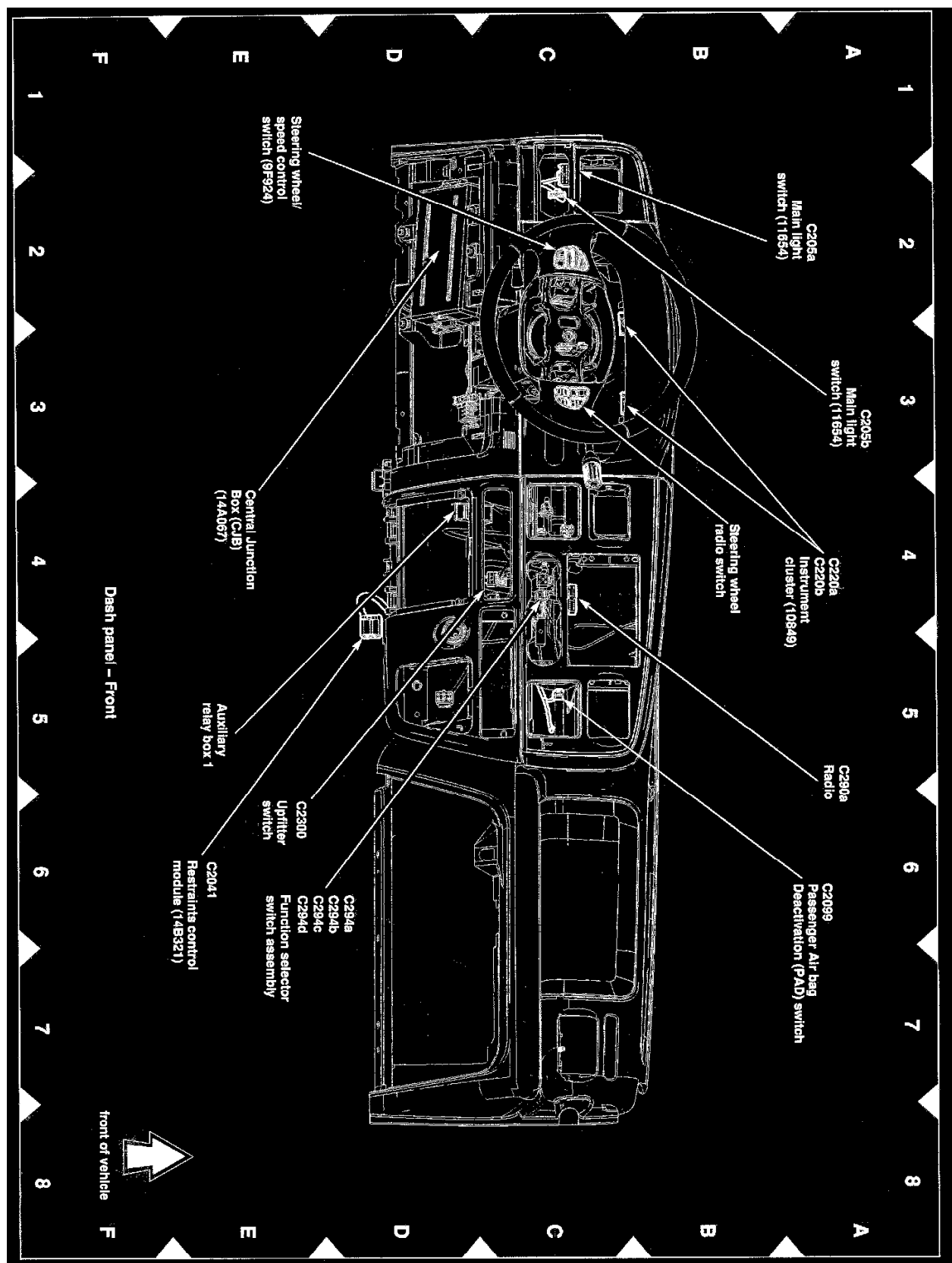




View 151-9 (Engine, Rear)



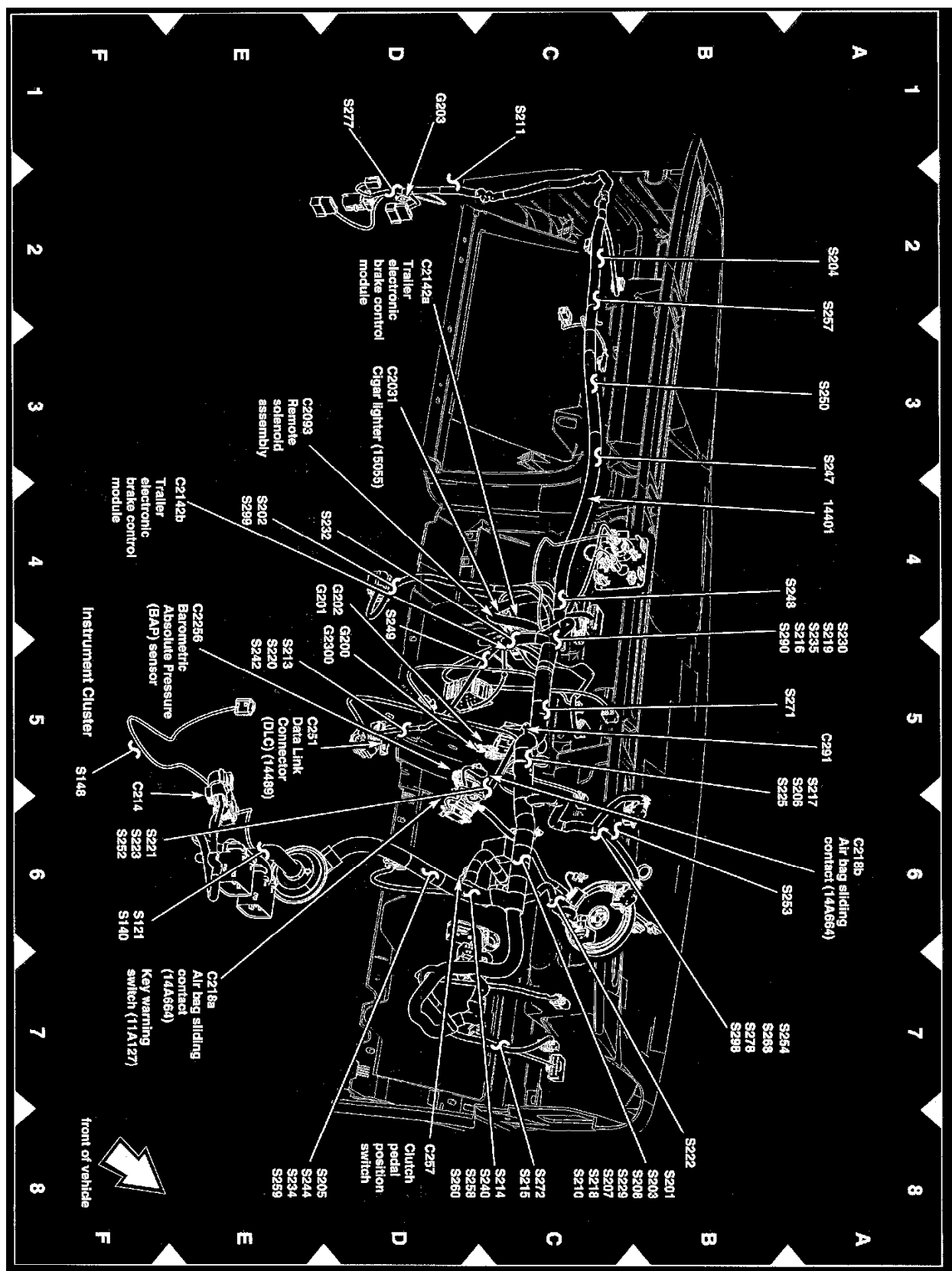
View 151-14 (Transmission)



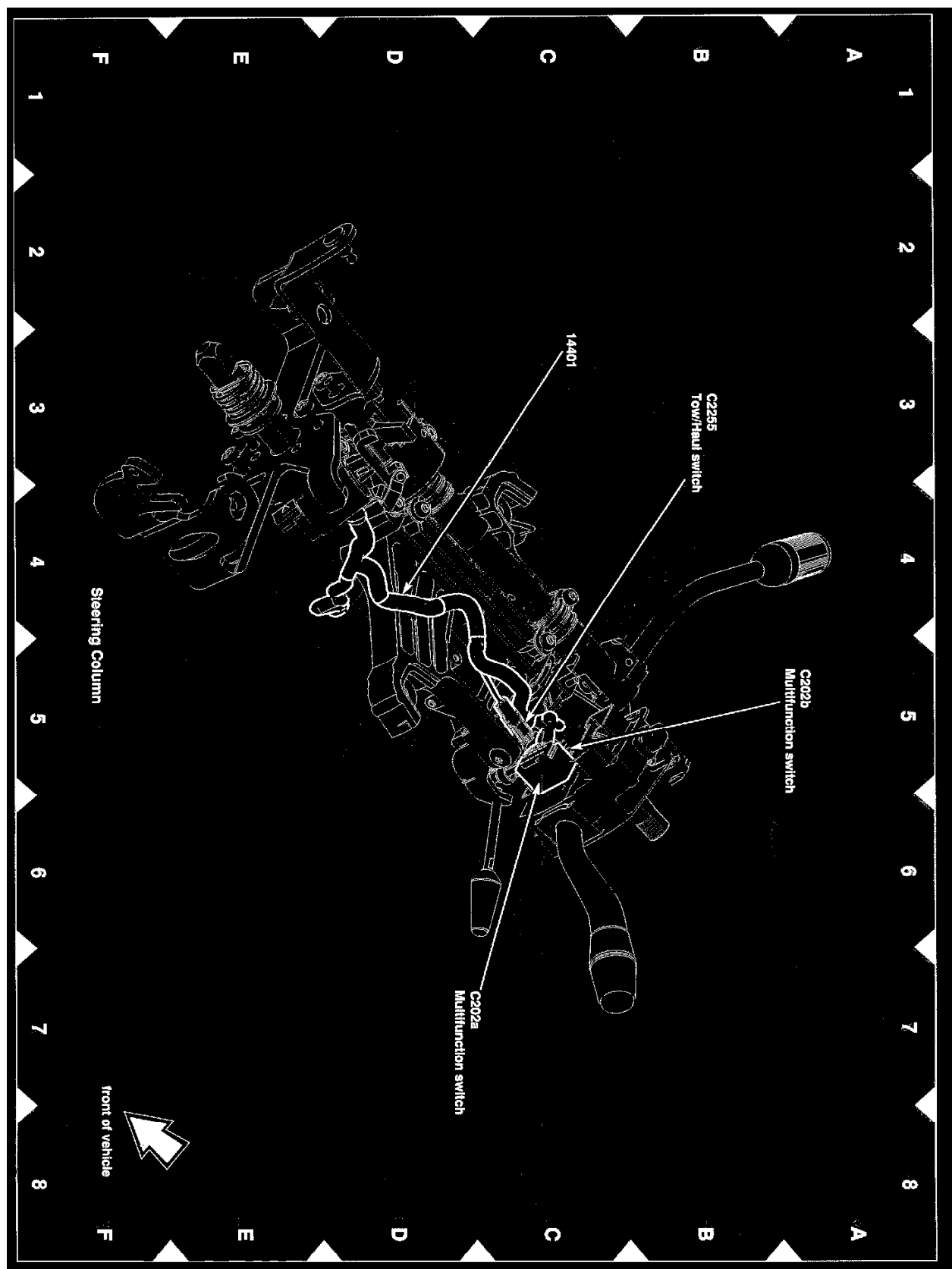
View 151-15 (Dash Panel - Front)



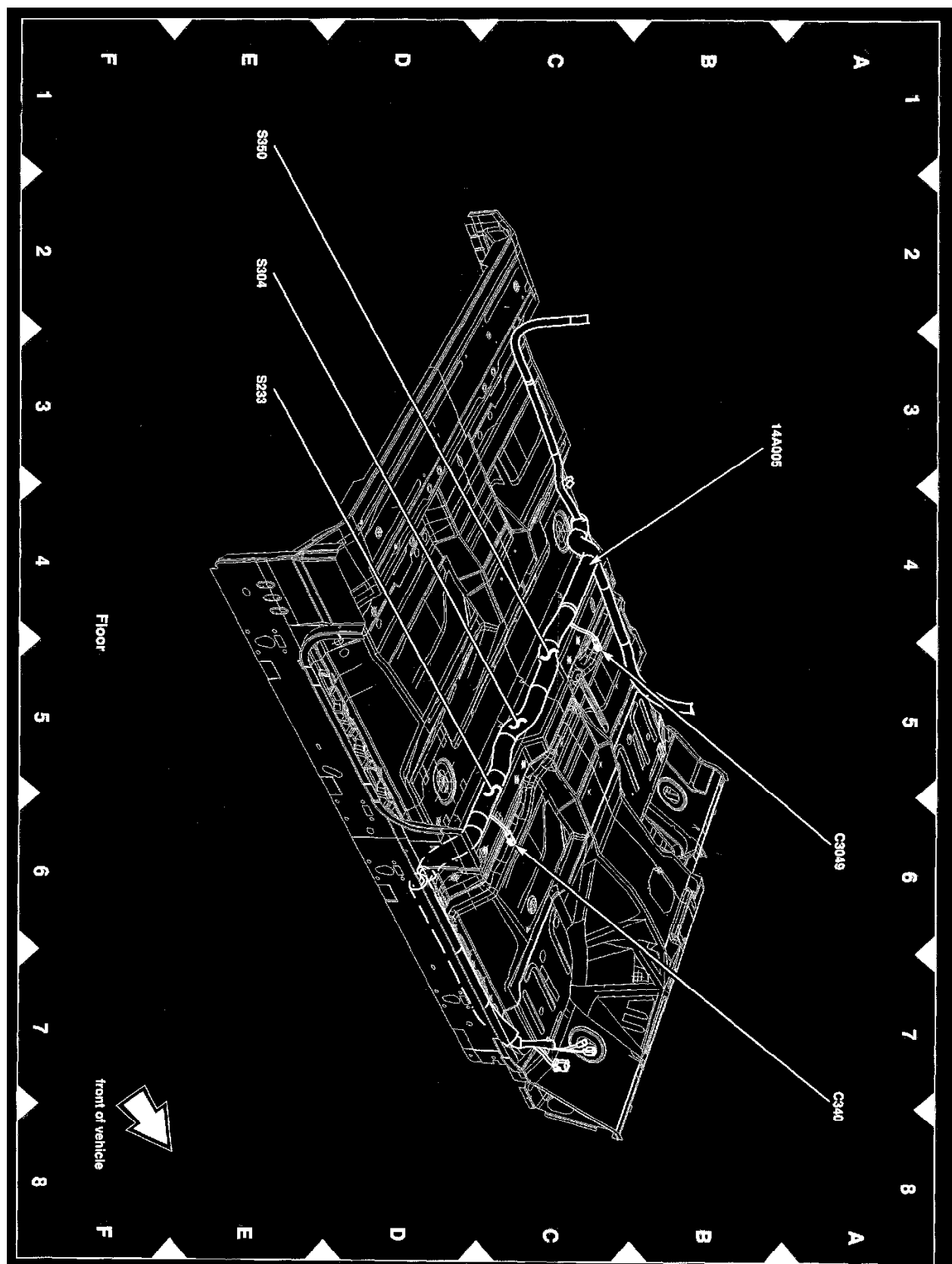
**View 151-16 (Instrument Panel)**



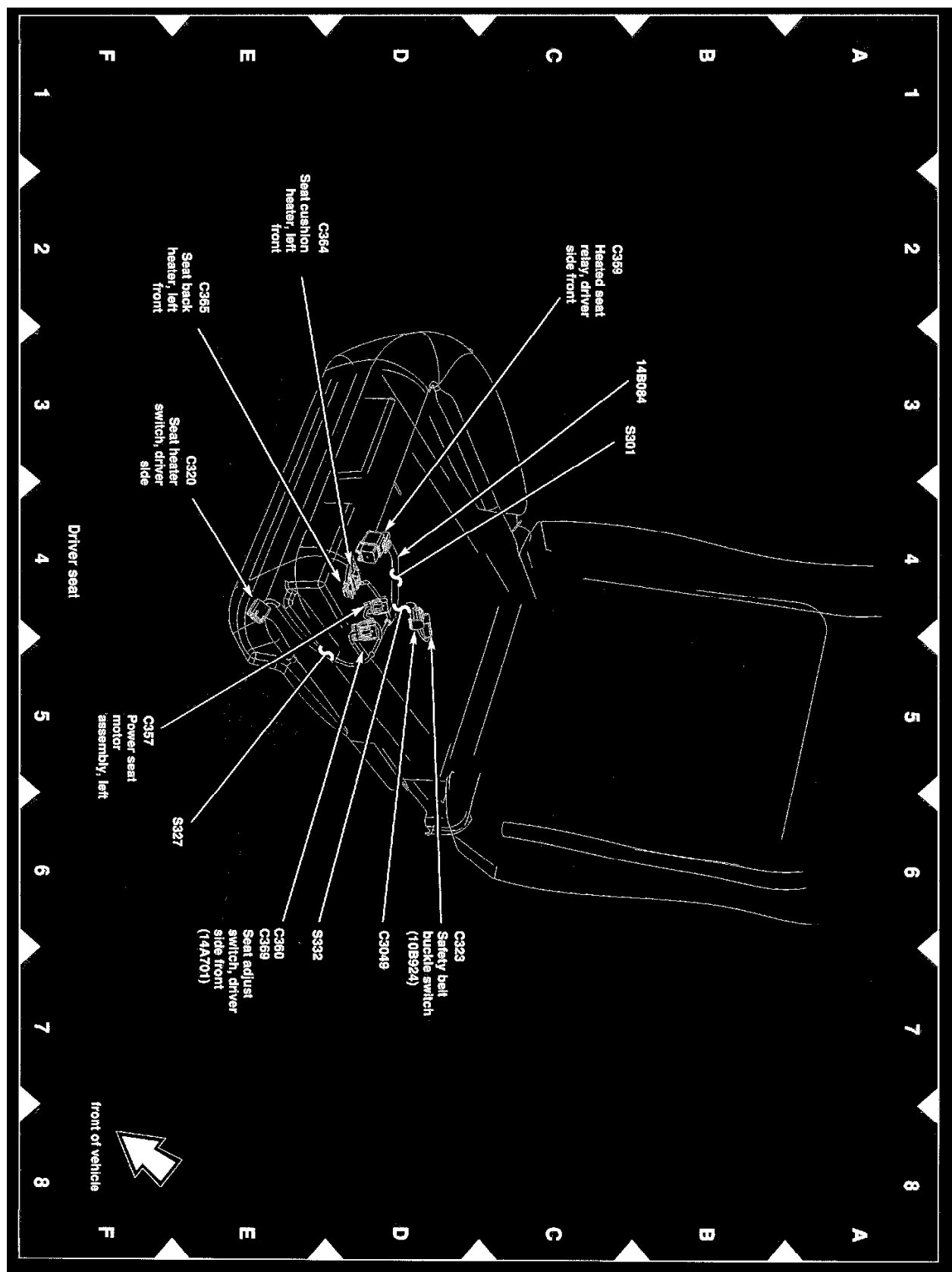
View 151-17 (Instrument Cluster)



View 151-18 (Steering Column)

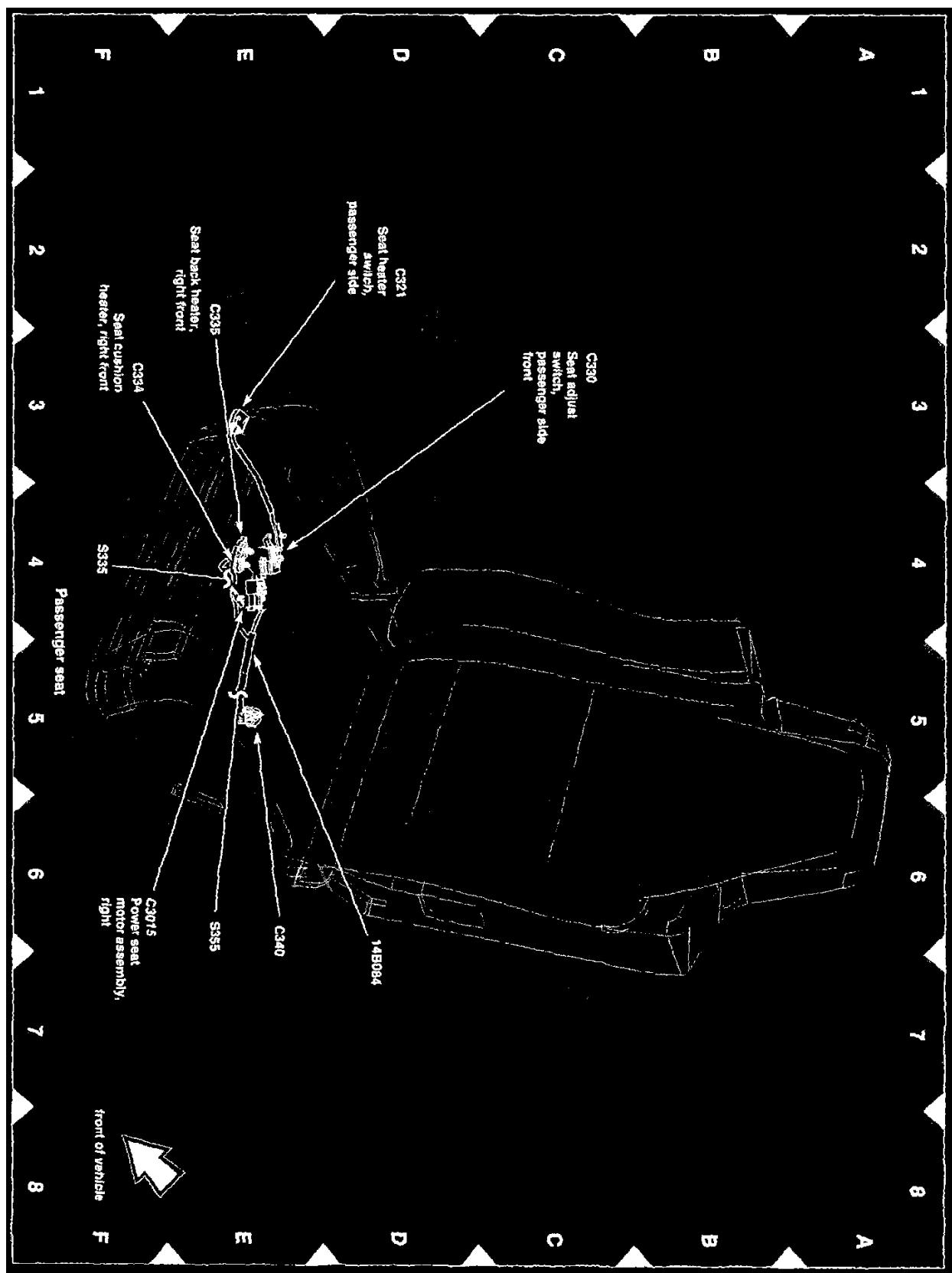


View 151-19 (Floor)

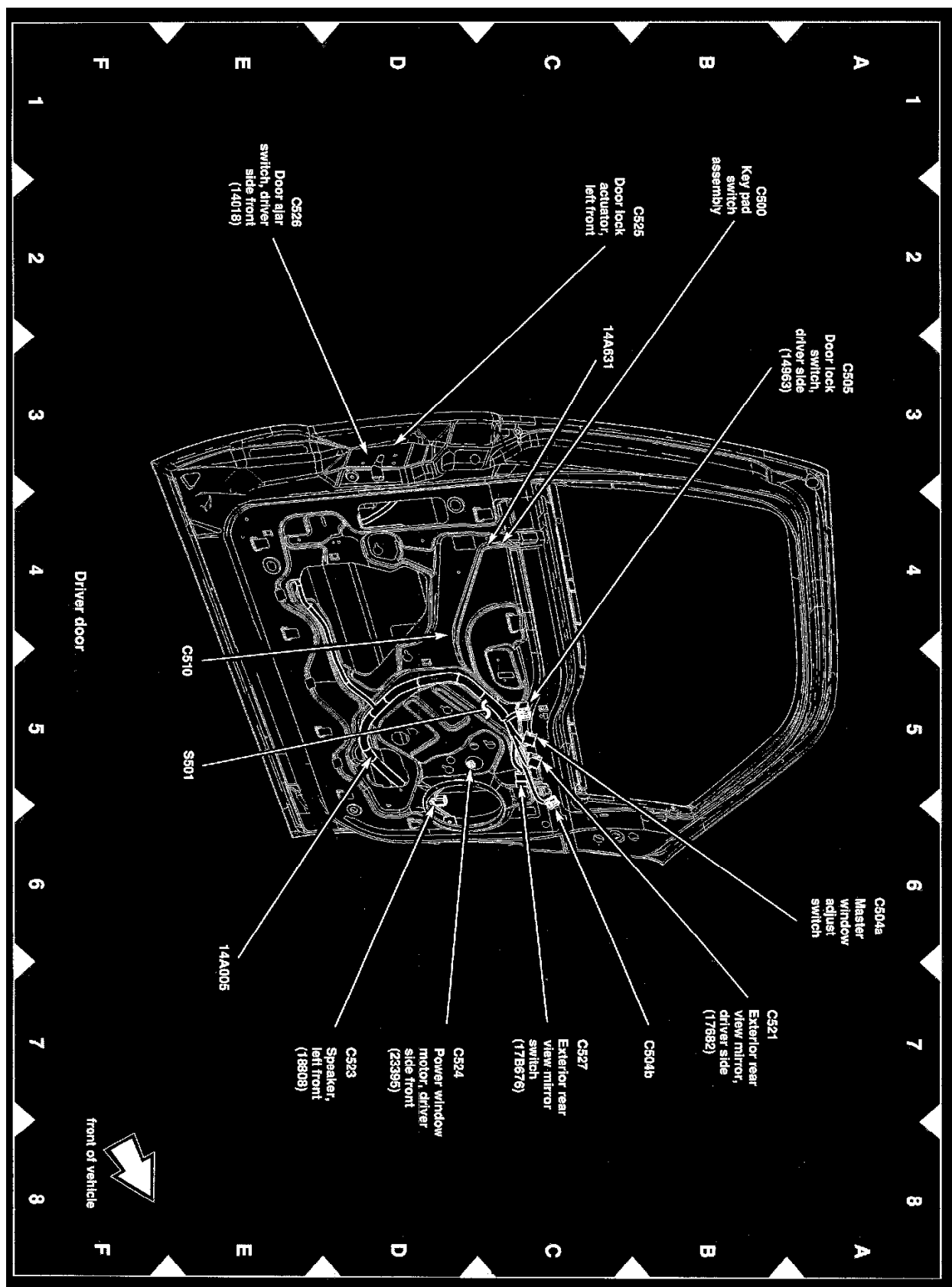


View 151-20 (Driver Seat)

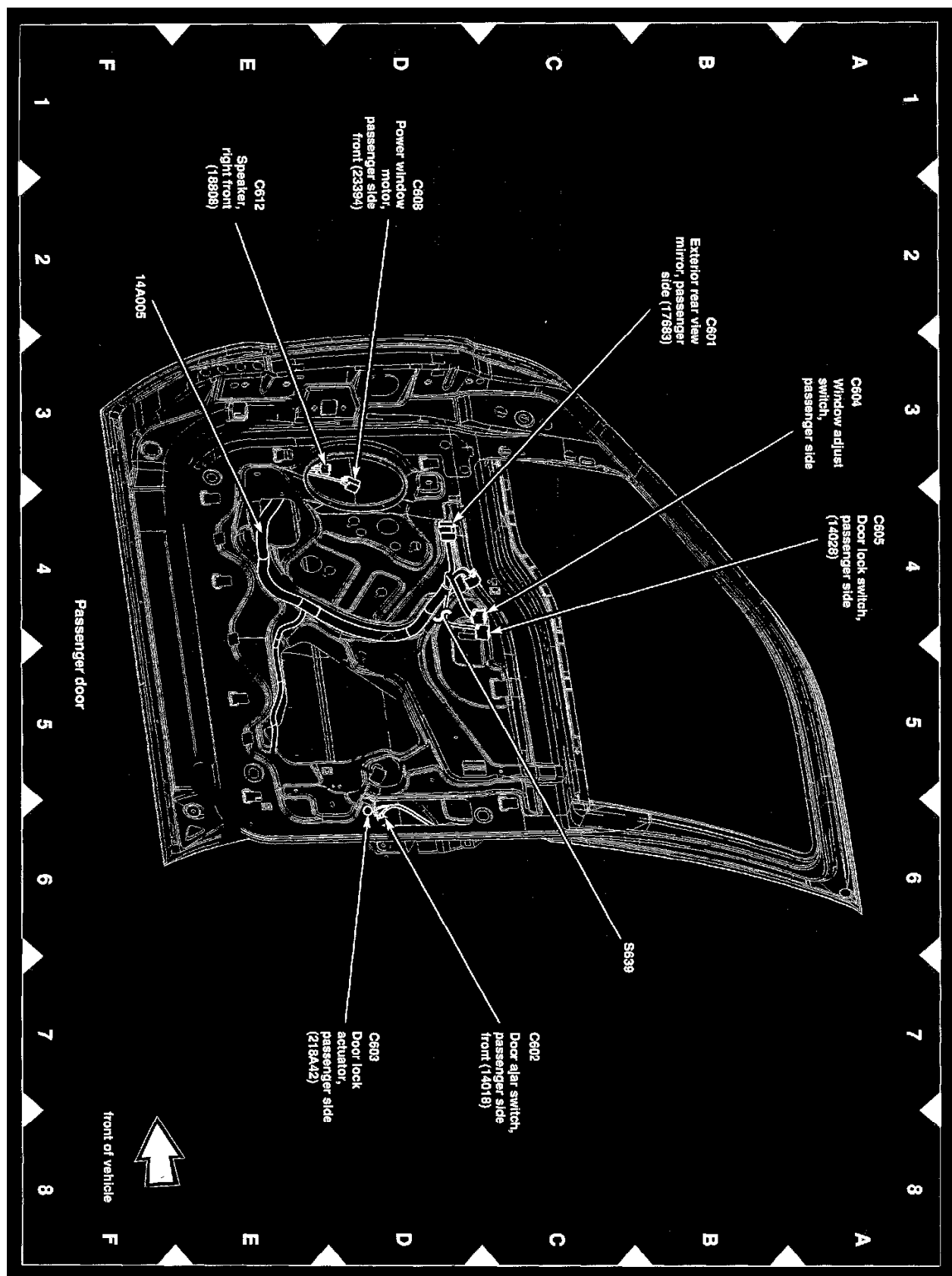




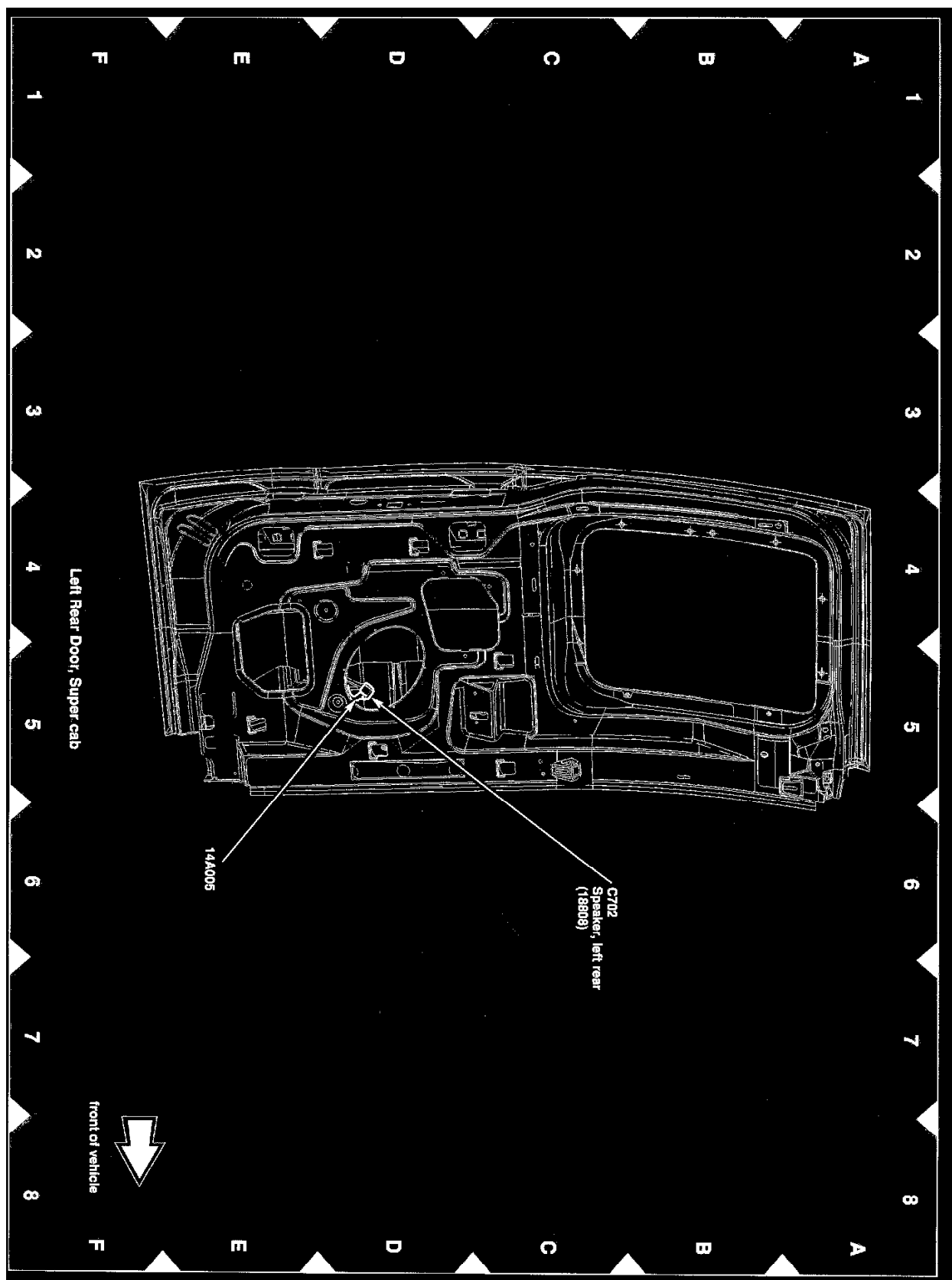
View 151-21 (Passenger Seat)



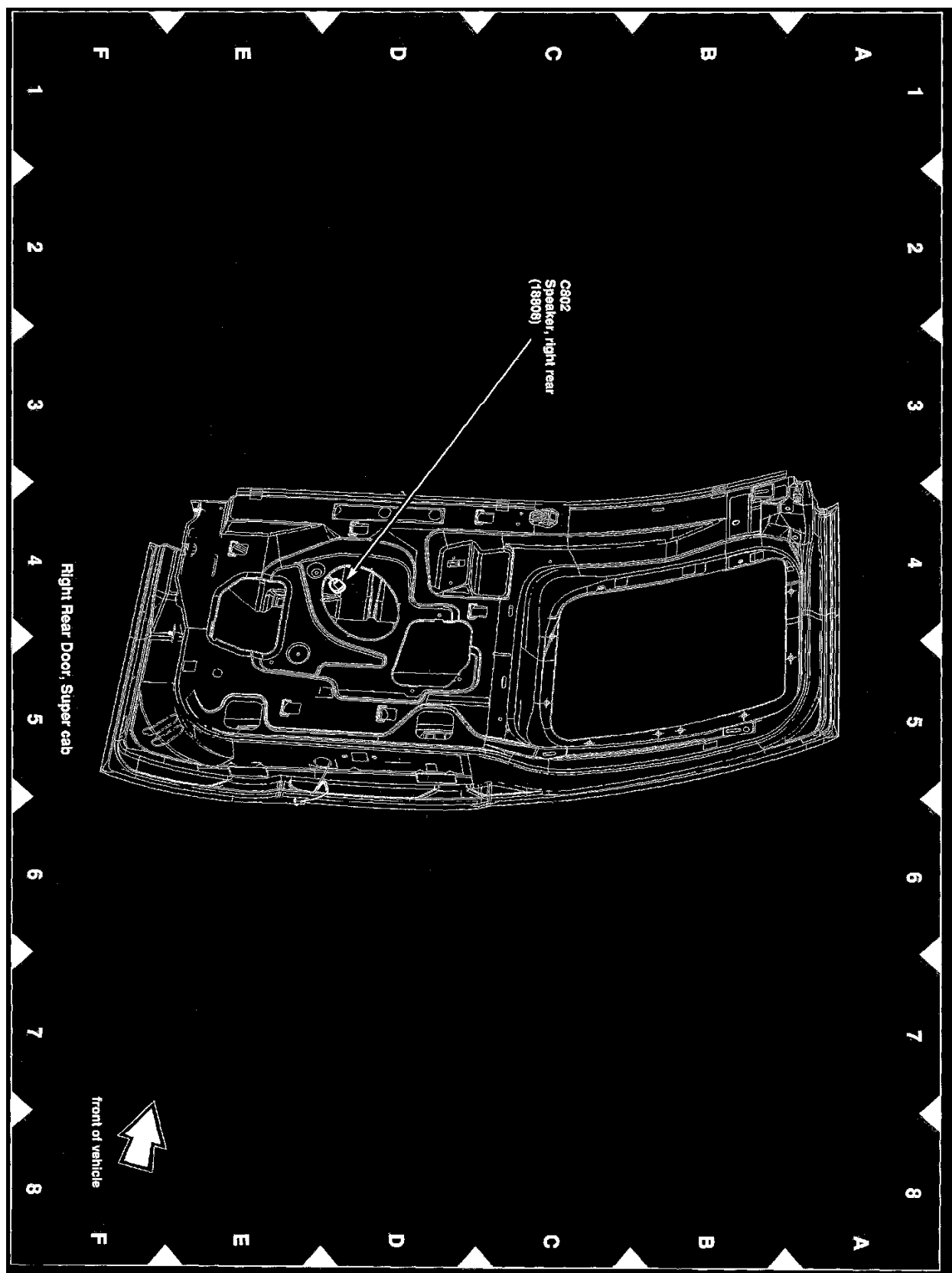
View 151-22 (Driver Door)



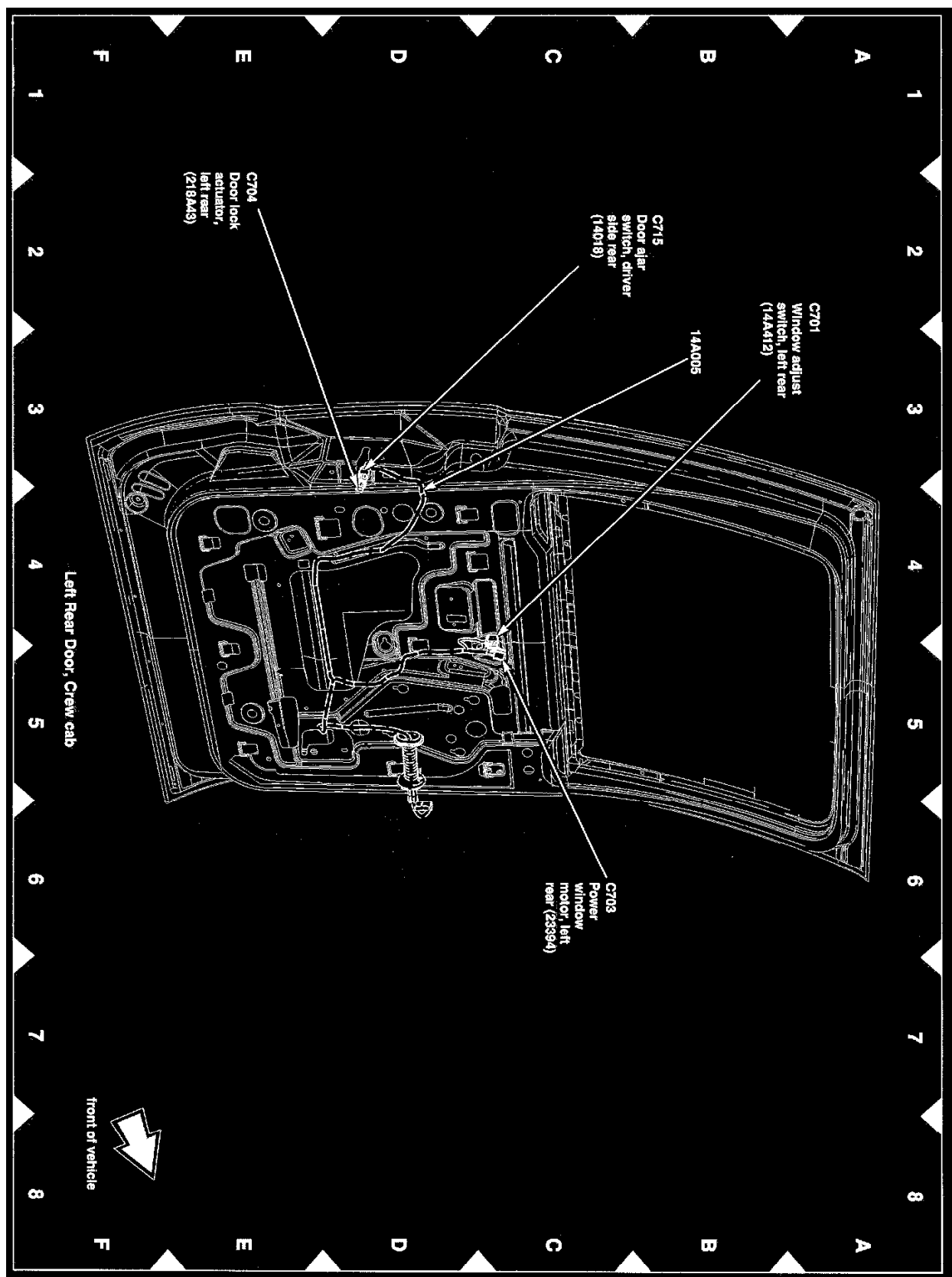
View 151-23 (Passenger Door)



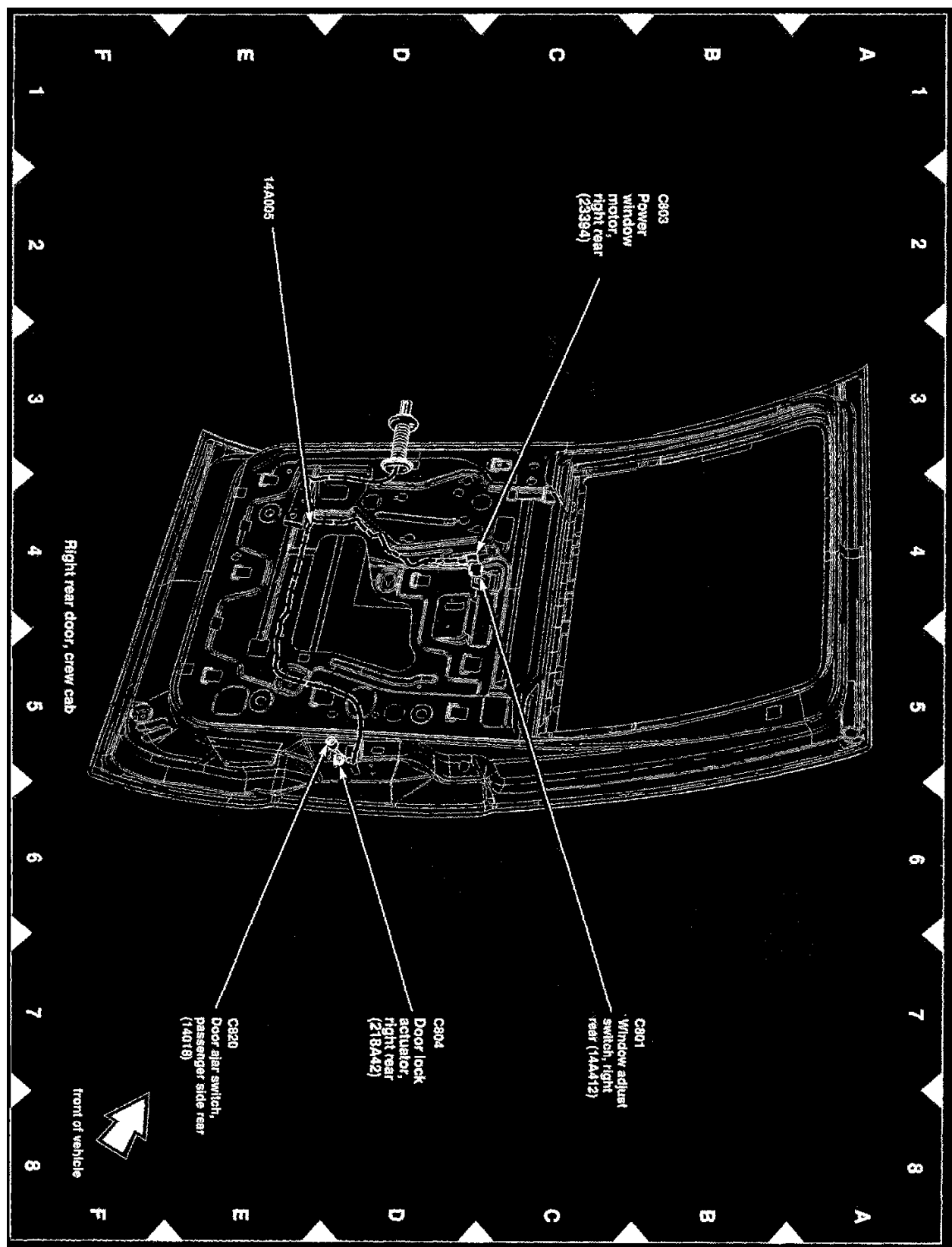
View 151-24 (Left Rear Door, Super Cab)



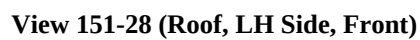
View 151-25 (Right Rear Door, Super Cab)



View 151-26 (Left Rear Door, Crew Cab)

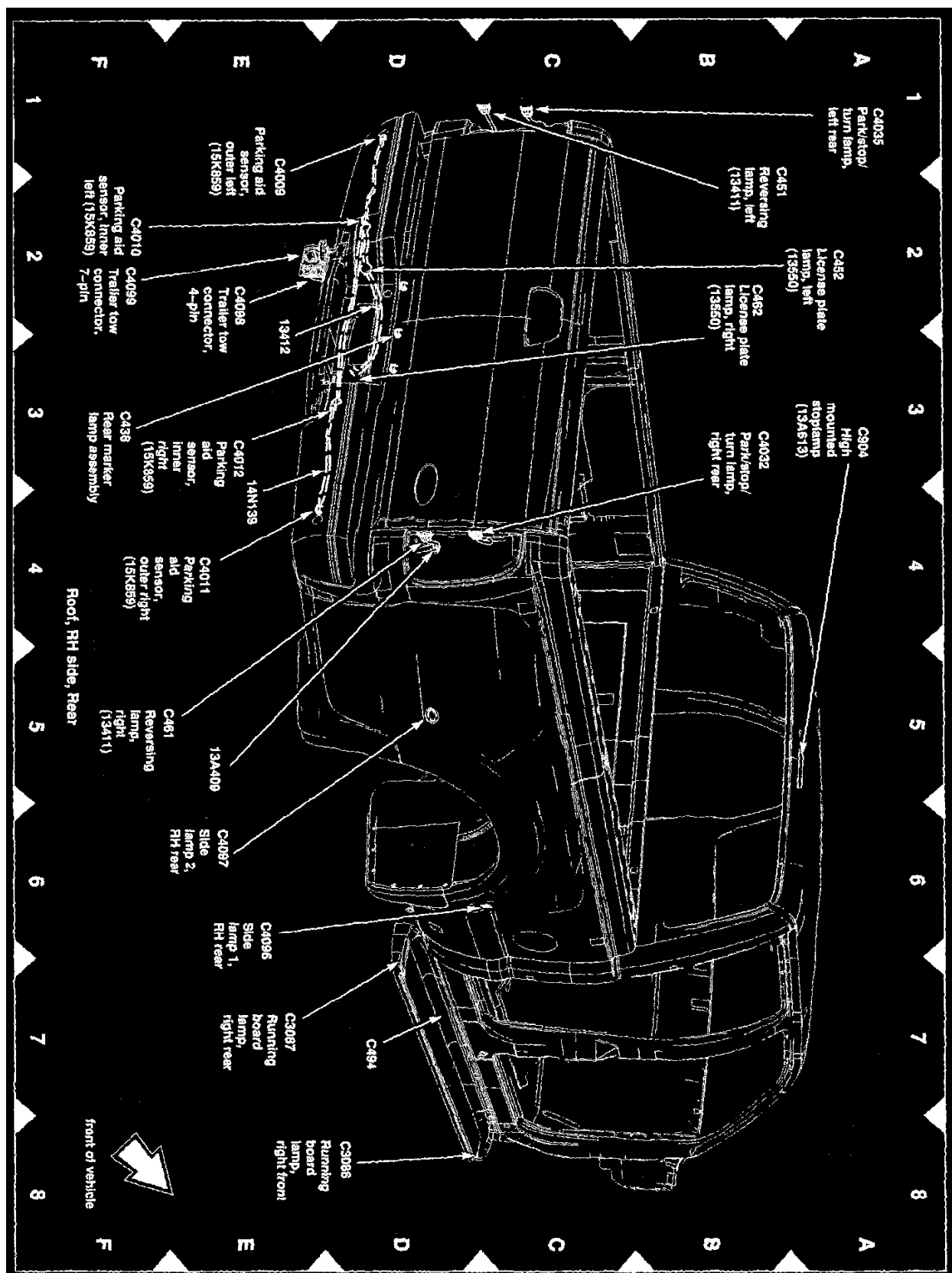


View 151-27 (Right Rear Door, Crew Cab)

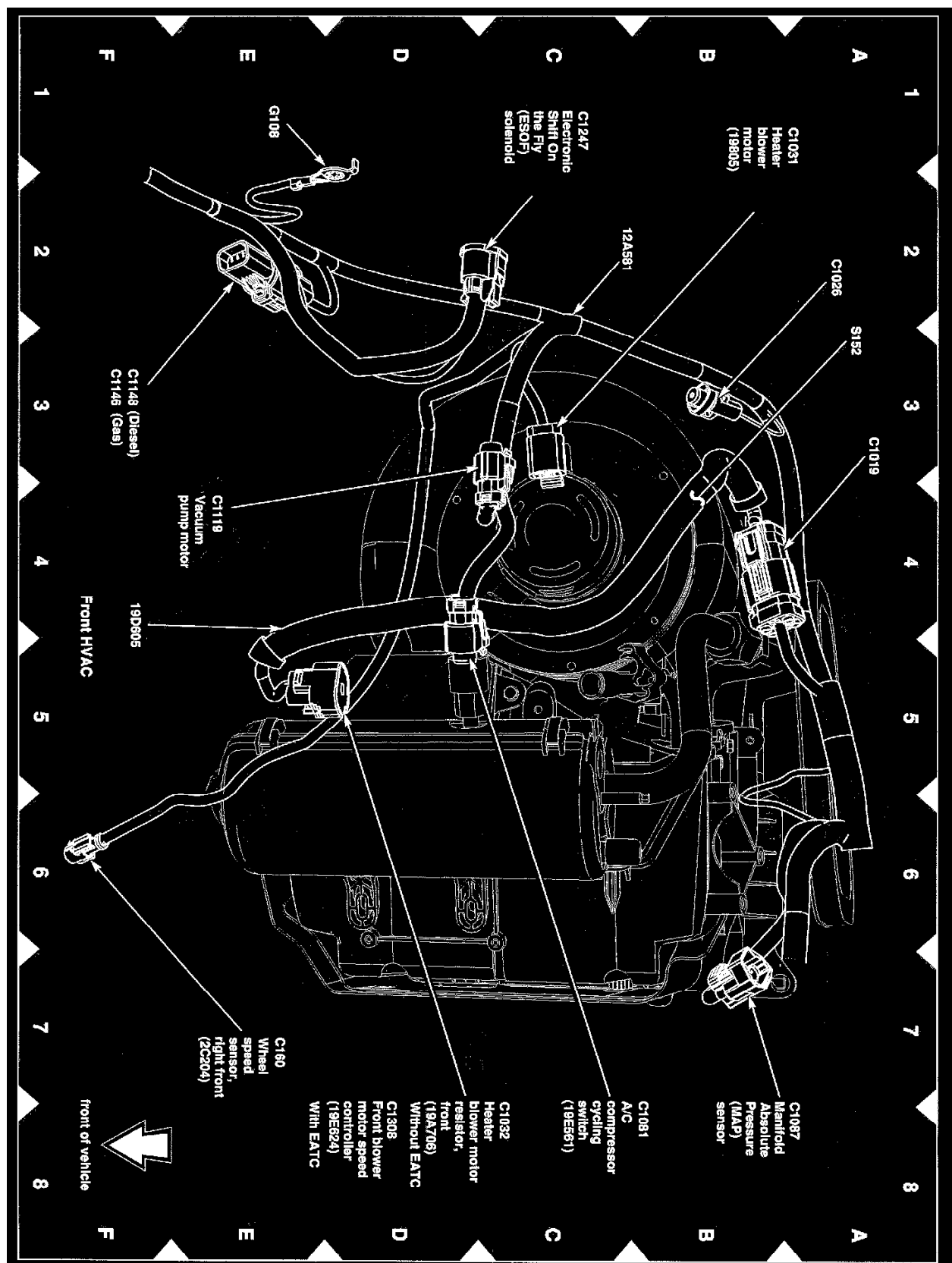


**View 151-28 (Roof, LH Side, Front)**

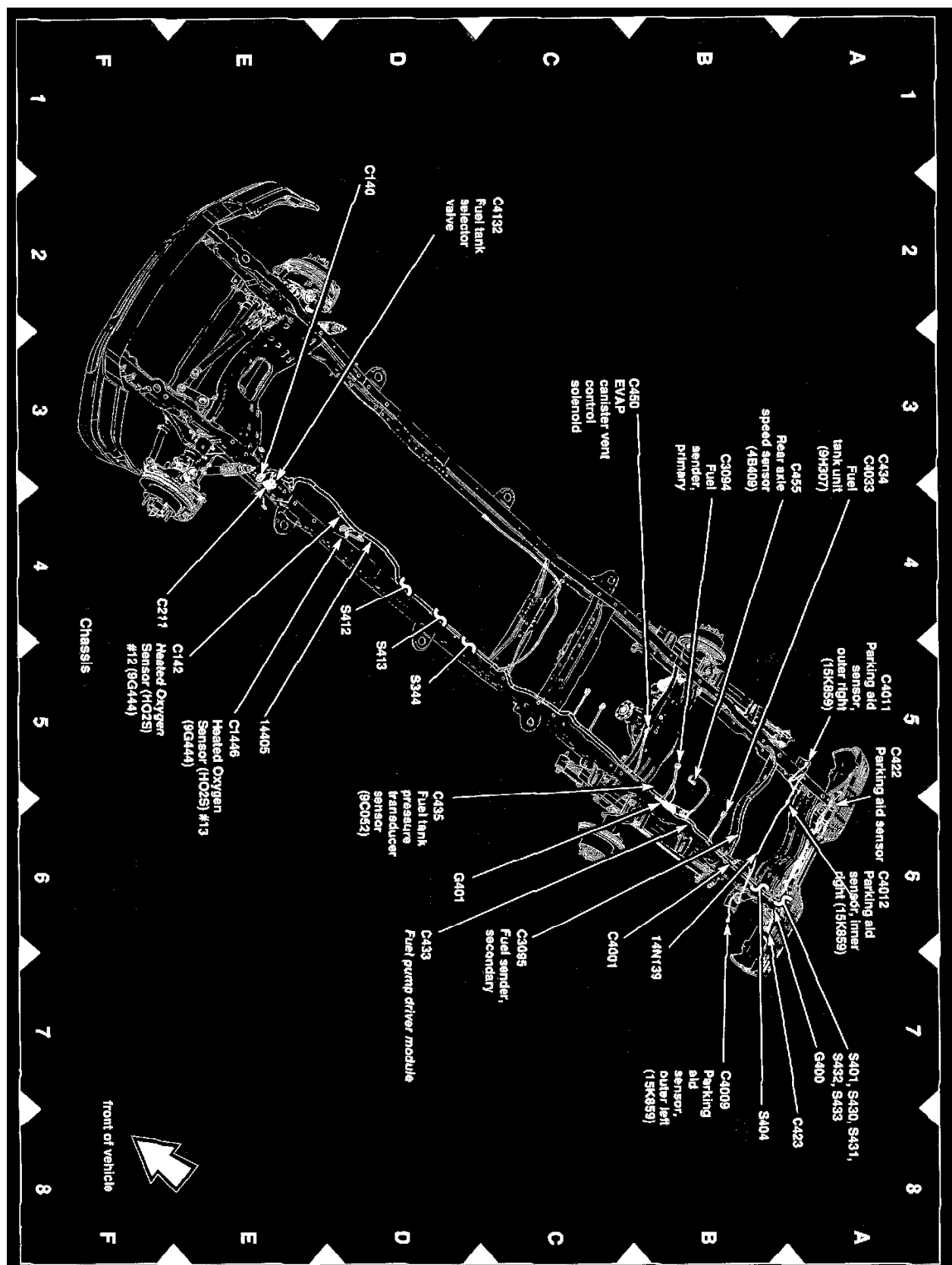




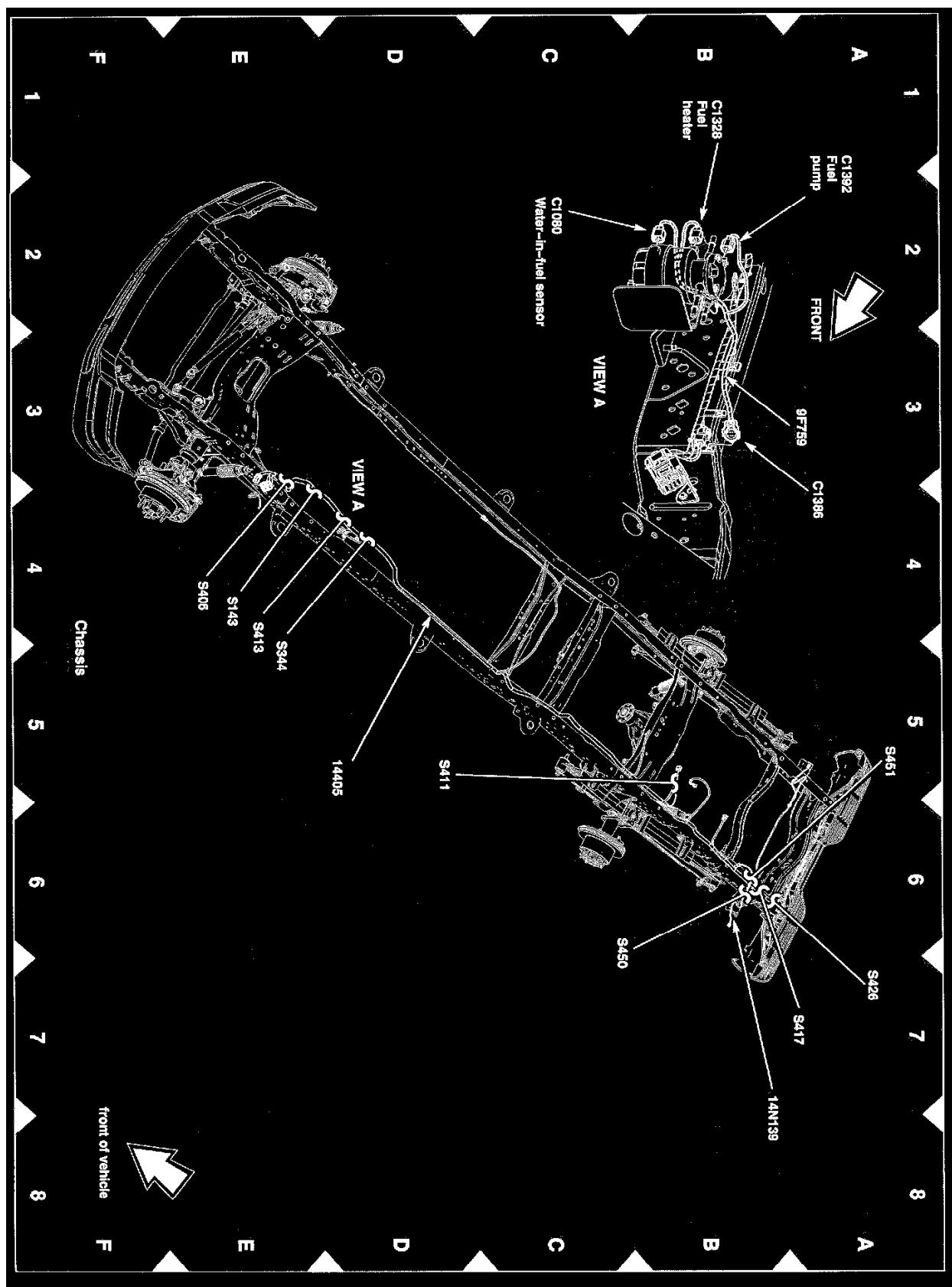
View 151-29 (Roof, RH Side, Rear)



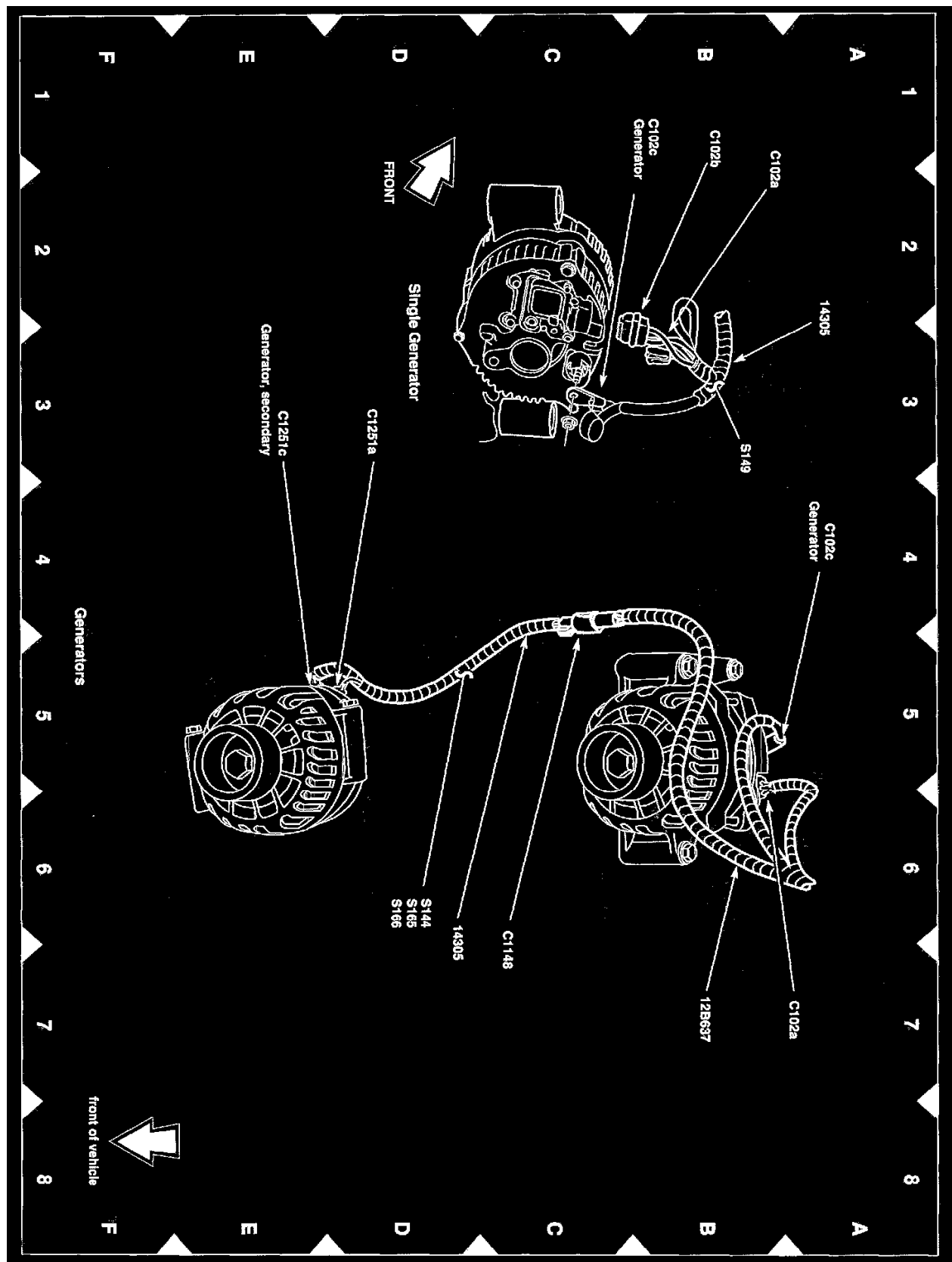
View 151-30 (Front HVAC)



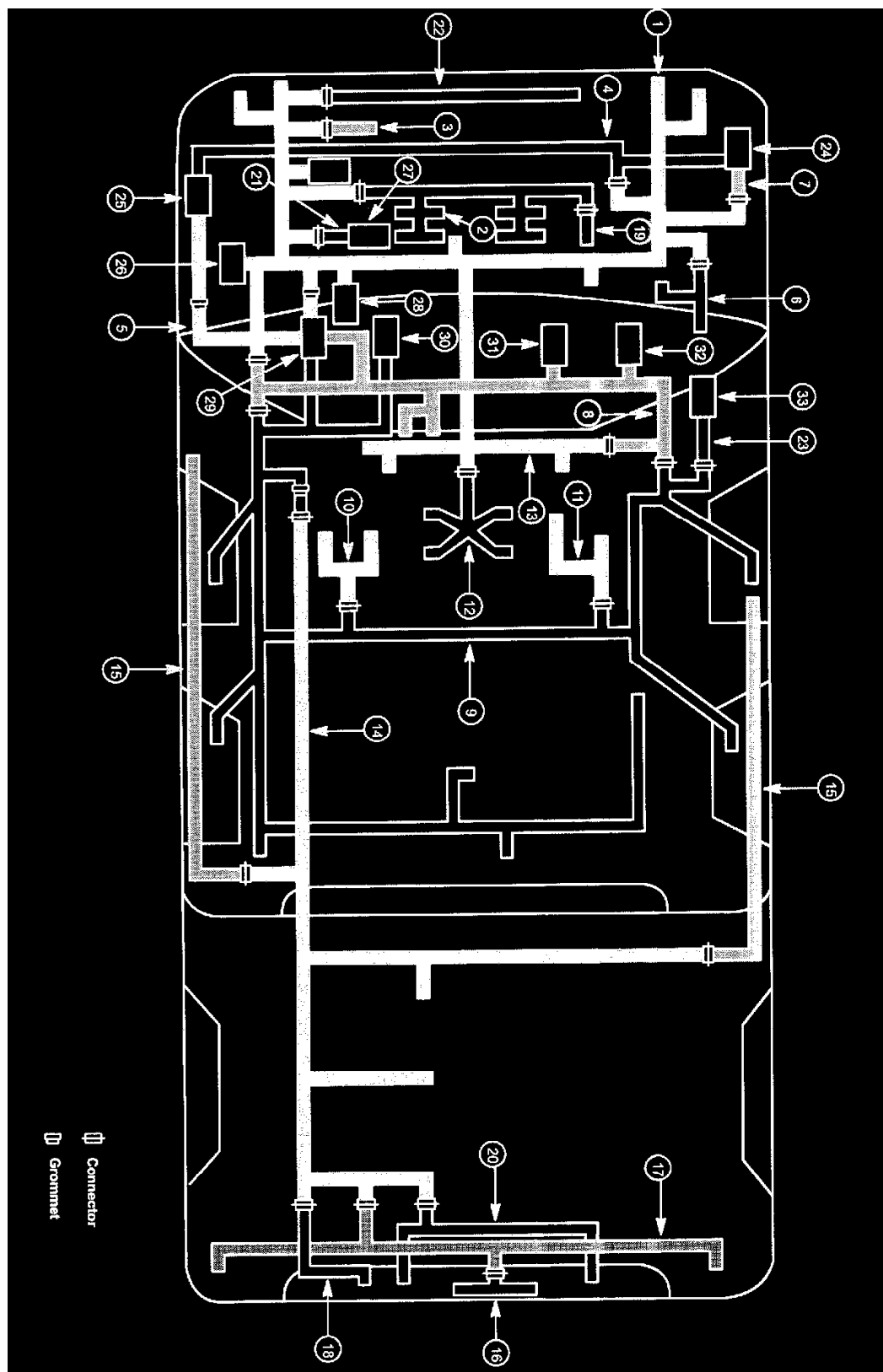
View 151-31 (Chassis)



View 151-32 (Chassis)



View 151-33 (Generators)



Wiring Harness Overview Part 1

|    | Description                                             |
|----|---------------------------------------------------------|
| 1  | Wiring harness - Engine control sensor                  |
| 2  | Wiring harness - Engine control sensor and fuel charge  |
| 3  | Wiring harness - Engine control sensor extension        |
| 4  | Wiring harness - Starter motor relay and battery ground |
| 5  | Wiring harness - Battery output                         |
| 6  | Wiring harness - Alternator rectifier system            |
| 7  | Wiring harness - Starter motor relay and battery ground |
| 8  | Wiring harness - Main                                   |
| 9  | Wiring harness - Body main                              |
| 10 | Wiring harness - Passenger, driver seat jumper          |
| 11 | Wiring harness - Passenger, driver seat jumper          |
| 12 | Wiring harness - Backup lamp switch to rear lamp feed   |
| 13 | Wiring harness - Overhead console                       |
|    | Wiring harness - Marker lamp to switch                  |
| 14 | Wiring harness - Tail lamps                             |
| 15 | Wiring harness - Running board lamps                    |
| 16 | Wiring harness - Rear license plate lamp                |

|    | Description                                                    |
|----|----------------------------------------------------------------|
| 17 | Wiring harness - Tail lamps                                    |
| 18 | Wiring harness - Trailer lamp feed                             |
| 19 | Wiring harness - Cylinder head temperature sensor              |
| 20 | Wiring harness - Backup alarm jumper                           |
| 21 | Wiring harness - Daytime Running Lamps (DRL) relay             |
| 22 | Wiring harness - Fog lamp jumper                               |
| 23 | Wiring harness - Parking aid sensor, front                     |
| 24 | Battery (10655)                                                |
| 25 | Battery II                                                     |
| 26 | Auxiliary relay box 1                                          |
| 27 | Auxiliary relay box 2                                          |
| 28 | Powertrain Control Module (PCM) (12A860)                       |
| 29 | Central Junction Box (CJB) (14A068)                            |
| 30 | Vehicle Security Module (VSM)                                  |
| 31 | Electronic Automatic Temperature Control (EATC) module (19980) |
| 32 | Four-wheel drive control module                                |
| 33 | Parking Aid Module (PAM) (15K886)                              |

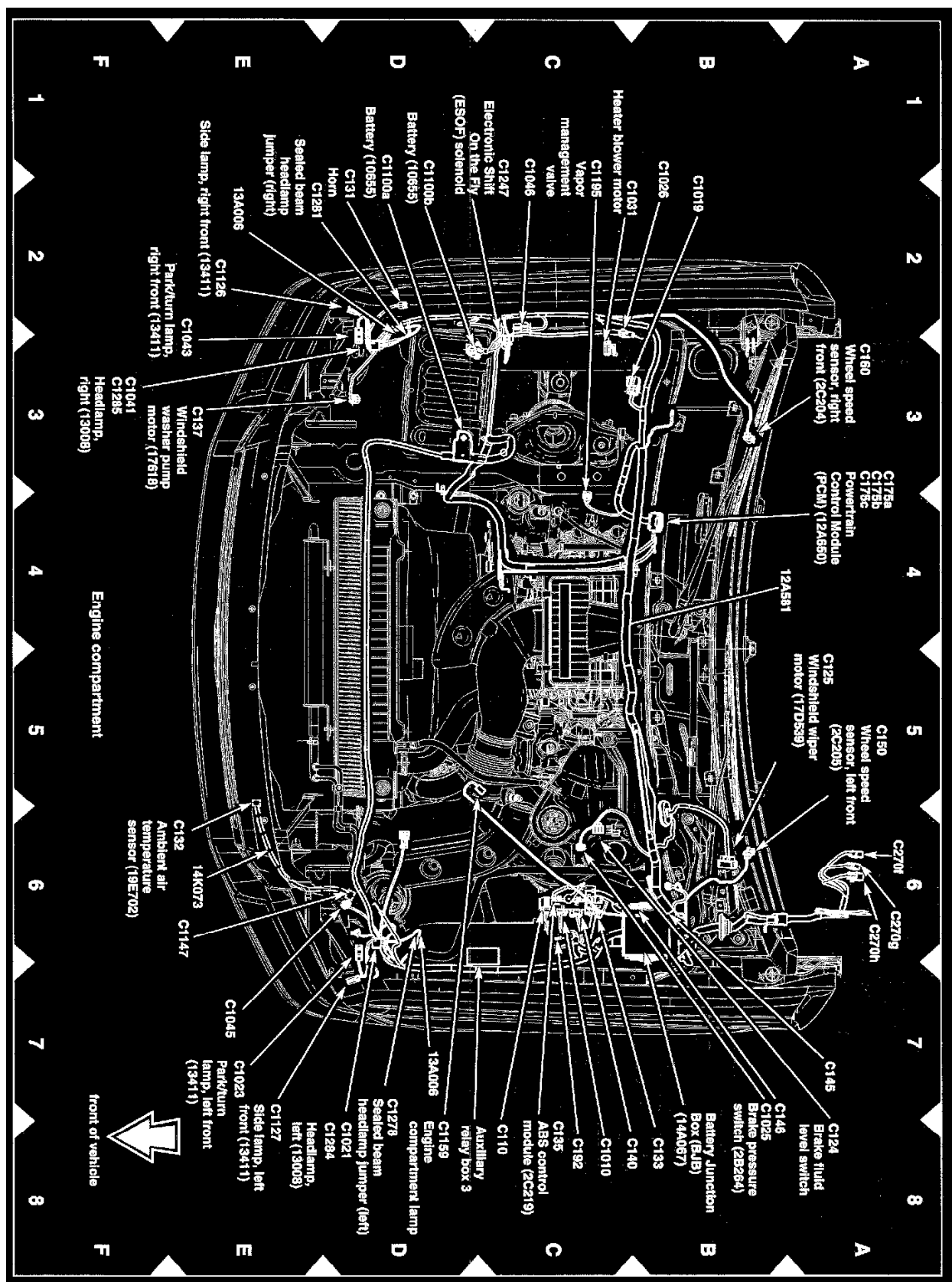
## Wiring Harness Overview Part 2

### Wiring Harness Location Index

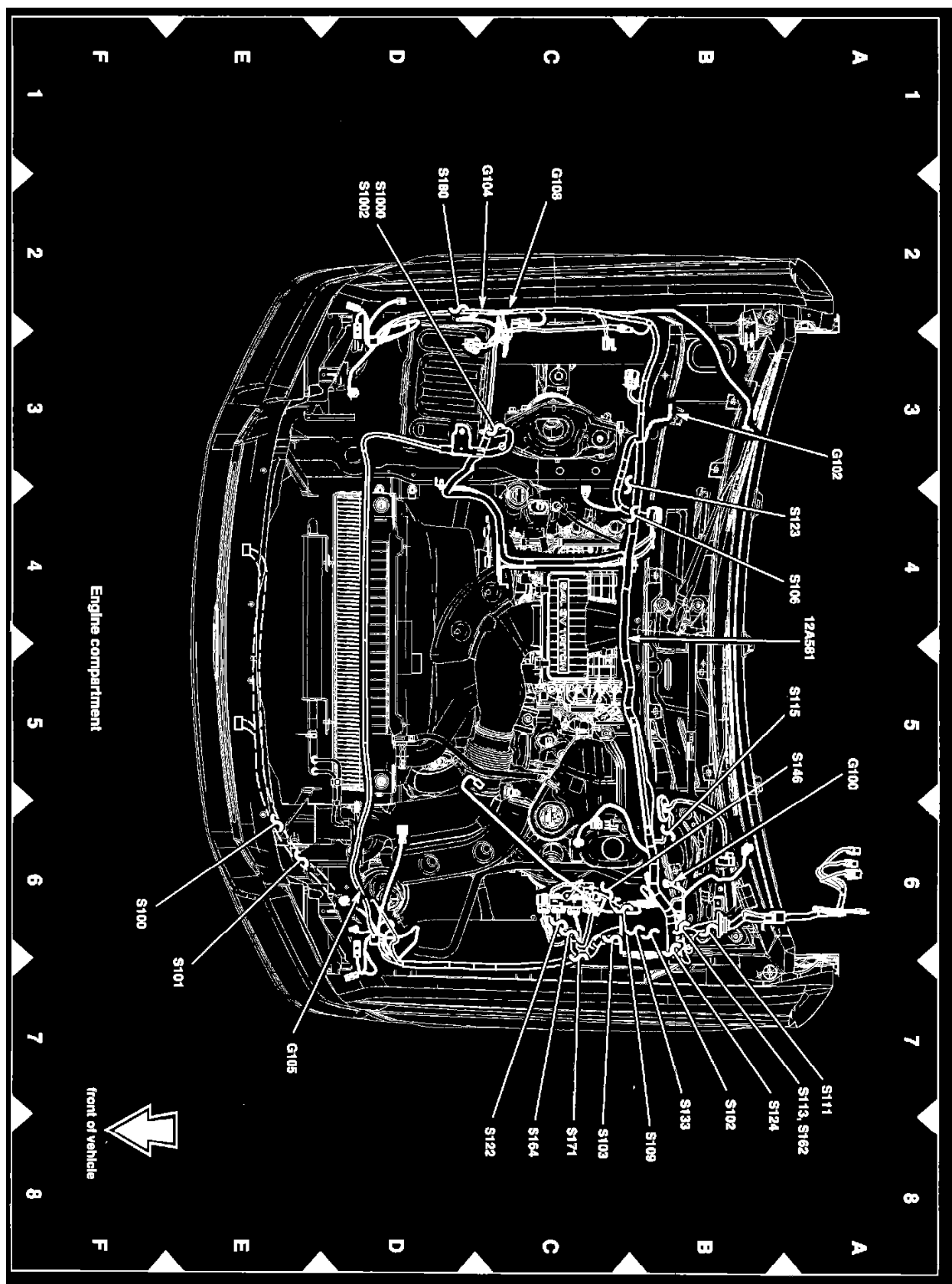
**PLEASE NOTE:** If a link on the Wiring Harness Location Index to a View is not provided, that means that the Wiring Harness and/or View in question does NOT apply to the vehicle model selected.

| Wiring Harness |                                                         | View 151-*/coordinates |    |
|----------------|---------------------------------------------------------|------------------------|----|
|                | Location                                                |                        |    |
| 13412          | Wiring harness - Rear license lamp                      | 29-                    | D2 |
| 14300          | Wiring harness - Battery output                         | 3-                     | E3 |
| 14301          | Wiring harness - Junction block to engine ground        | 3-                     | C2 |
| 14305          | Wiring harness - Alternator rectifier system            | 33-                    | A2 |
| 14305          | Wiring harness - Alternator rectifier system            | 33-                    | C5 |
| 14401          | Wiring harness - Main                                   | 16-                    | B1 |
| 14401          | Wiring harness - Main                                   | 17-                    | A4 |
| 14401          | Wiring harness - Main                                   | 18-                    | C2 |
| 14405          | Wiring harness - Tail lamps                             | 31-                    | E5 |
| 14405          | Wiring harness - Tail lamps                             | 32-                    | D5 |
| 9F759          | Wiring harness - Fuel vapor purge solenoid jumper       | 32-                    | A3 |
| 14687          | Wiring harness - Power sliding rear window jumper       | 28-                    | B5 |
| 15525          | Wiring harness - Back up lamp switch to rear lamp feed  | 14-                    | B3 |
| 15525          | Wiring harness - Back up lamp switch to rear lamp feed  | 14-                    | A3 |
| 15525          | Wiring harness - Back up lamp switch to rear lamp feed  | 14-                    | E3 |
| 12A581         | Wiring harness - Engine control sensor                  | 1-                     | B4 |
| 12A581         | Wiring harness - Engine control sensor                  | 3-                     | B4 |
| 12A581         | Wiring harness - Engine control sensor                  | 5-                     | A3 |
| 12A581         | Wiring harness - Engine control sensor                  | 6-                     | A3 |
| 12A581         | Wiring harness - Engine control sensor                  | 30-                    | C2 |
| 12B637         | Wiring harness - Engine control sensor and fuel charge  | 7-                     | F5 |
| 12B637         | Wiring harness - Engine control sensor and fuel charge  | 8-                     | B2 |
| 12B637         | Wiring harness - Engine control sensor and fuel charge  | 9-                     | B2 |
| 12B637         | Wiring harness - Engine control sensor and fuel charge  | 10-                    | E7 |
| 12B637         | Wiring harness - Engine control sensor and fuel charge  | 13-                    | B4 |
| 12B637         | Wiring harness - Engine control sensor and fuel charge  |                        |    |
| 13A006         | Wiring harness - Headlamp                               | 33-                    | B7 |
| 13A006         | Wiring harness - Headlamp                               | 1-                     | E2 |
| 13A409         | Wiring harness - Tail lamps                             | 29-                    | D7 |
| 14A005         | Wiring harness - Body main                              | 19-                    | E5 |
| 14A005         | Wiring harness - Body main                              | 22-                    | B4 |
| 14A005         | Wiring harness - Body main                              | 23-                    | E6 |
| 14A005         | Wiring harness - Body main                              | 23-                    | F2 |
| 14A005         | Wiring harness - Body main                              | 24-                    | E6 |
| 14A005         | Wiring harness - Body main                              | 26-                    | C3 |
| 14A005         | Wiring harness - Body main                              | 27-                    | F3 |
| 14A005         | Wiring harness - Body main                              | 28-                    | E6 |
| 14A631         | Wiring harness - Door lock switch                       | 22-                    | B1 |
| 14B060         | Wiring harness - Starter motor relay and battery ground | 3-                     | E3 |
| 14B084         | Wiring harness - Passenger, driver seat jumper          | 20-                    | C3 |
| 14B084         | Wiring harness - Passenger, driver seat jumper          | 21-                    | D7 |
| 14B102         | Wiring harness - Cylinder head temperature sensor       | 8-                     | E2 |
| 14K073         | Wiring harness - Temperature sender extension           | 1-                     | E6 |
| 14N139         | Wiring harness - Backup alarm jumper                    | 29-                    | E3 |
| 14N139         | Wiring harness - Backup alarm jumper                    | 31-                    | B6 |
| 14N139         | Wiring harness - Backup alarm jumper                    | 32-                    | B7 |
| 15A211         | Wiring harness - Fog lamp jumper                        | 3-                     | E4 |
| 15A404         | Wiring harness - Marker lamp to switch                  | 28-                    | A2 |
| 17C712         | Wiring harness - Overhead console                       | 28-                    | A2 |
| 19D605         | Wiring harness - A/C blower motor feed extension        | 30-                    | F4 |
| 19F504         | Wiring harness - running board lamps                    | 28-                    | E6 |

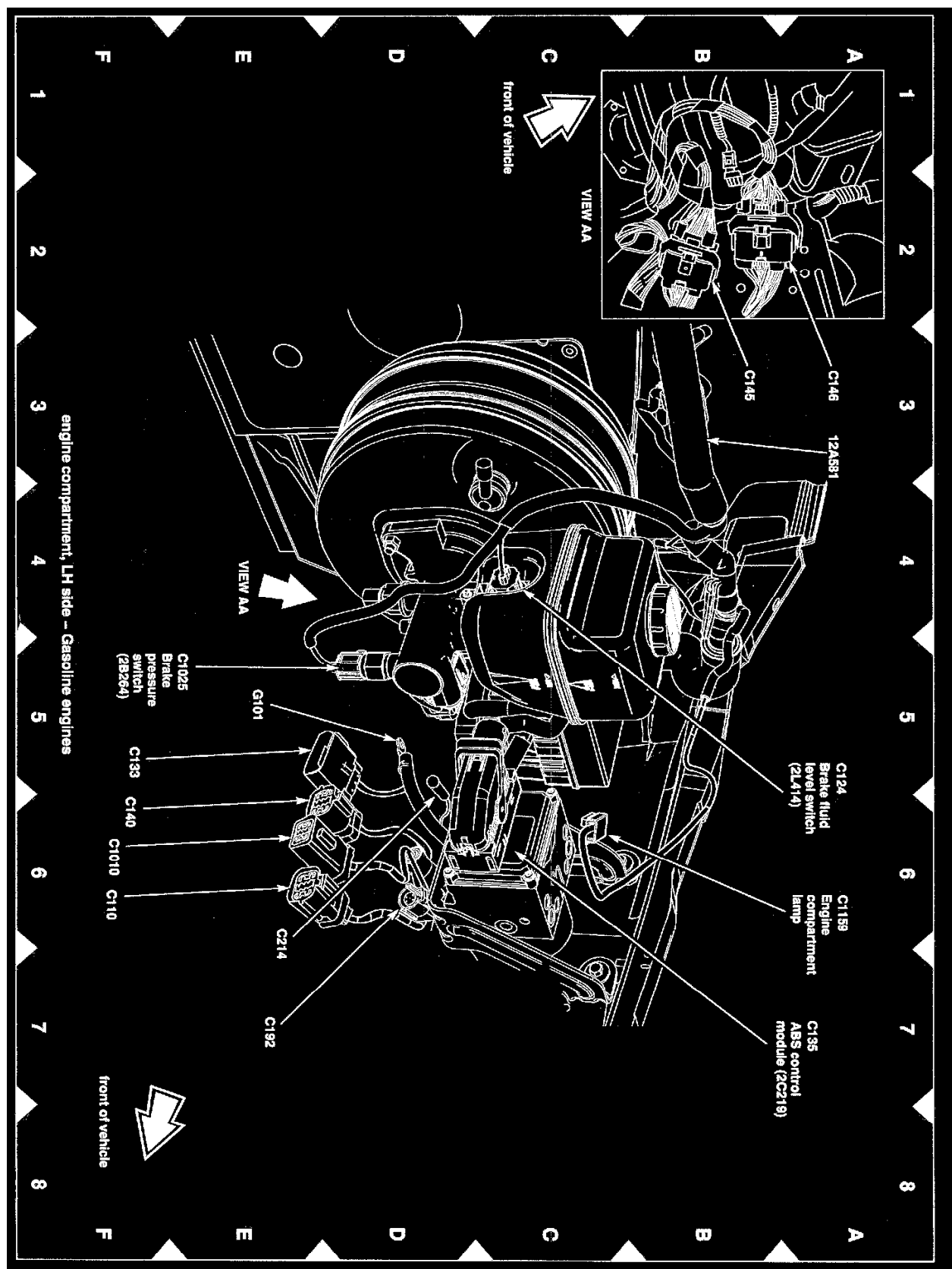




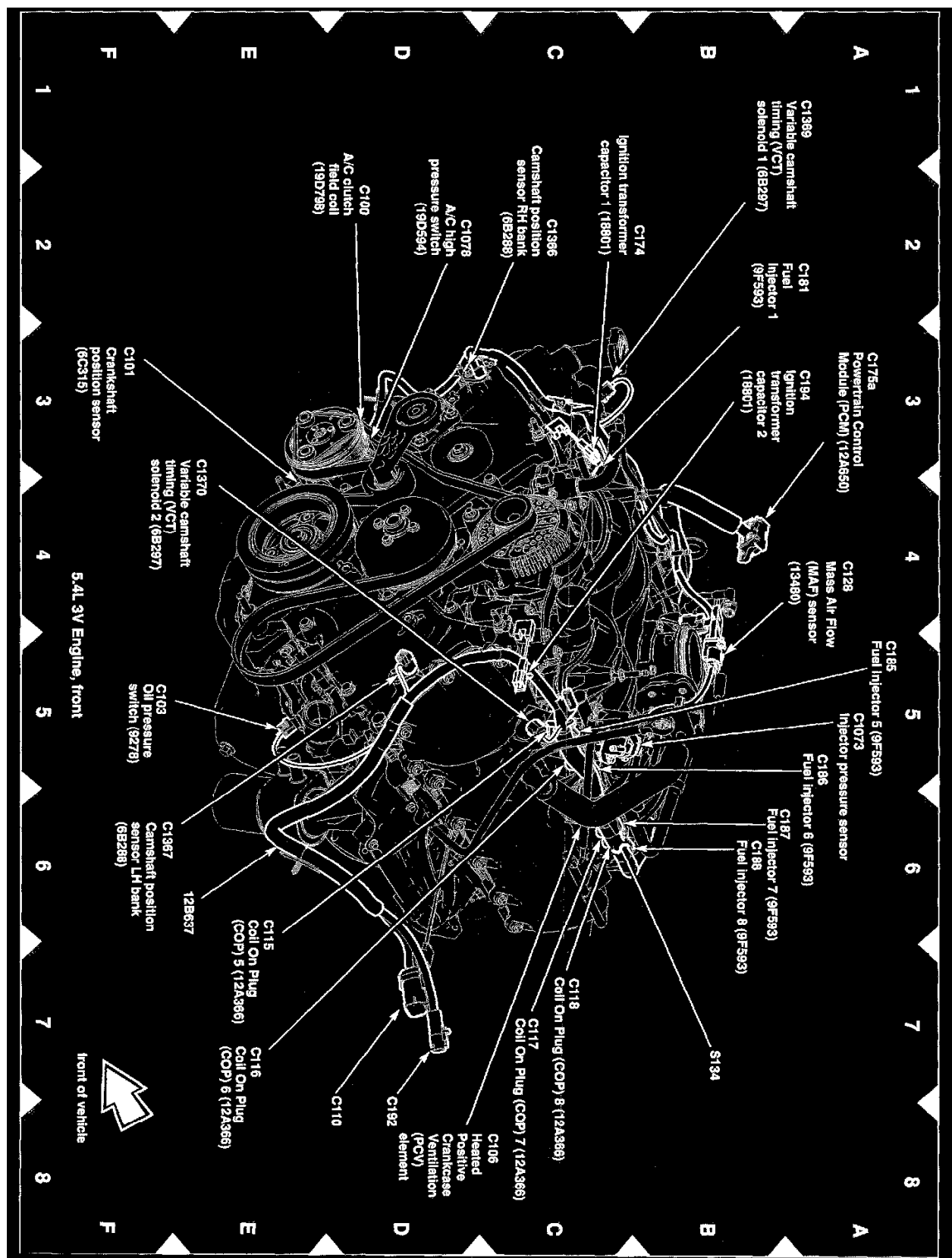
View 151-1 (Engine Compartment)



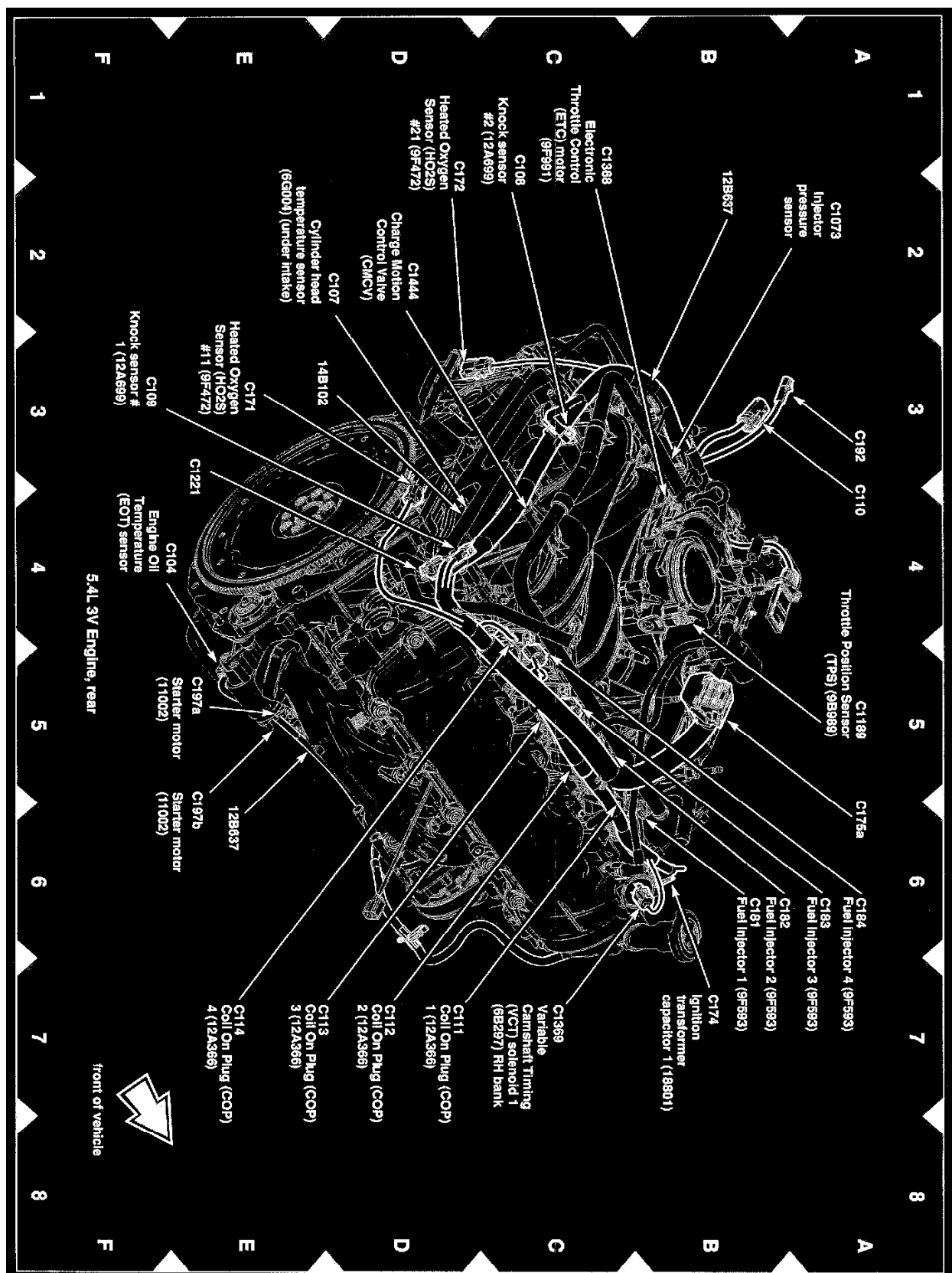
View 151-2 (Engine Compartment)



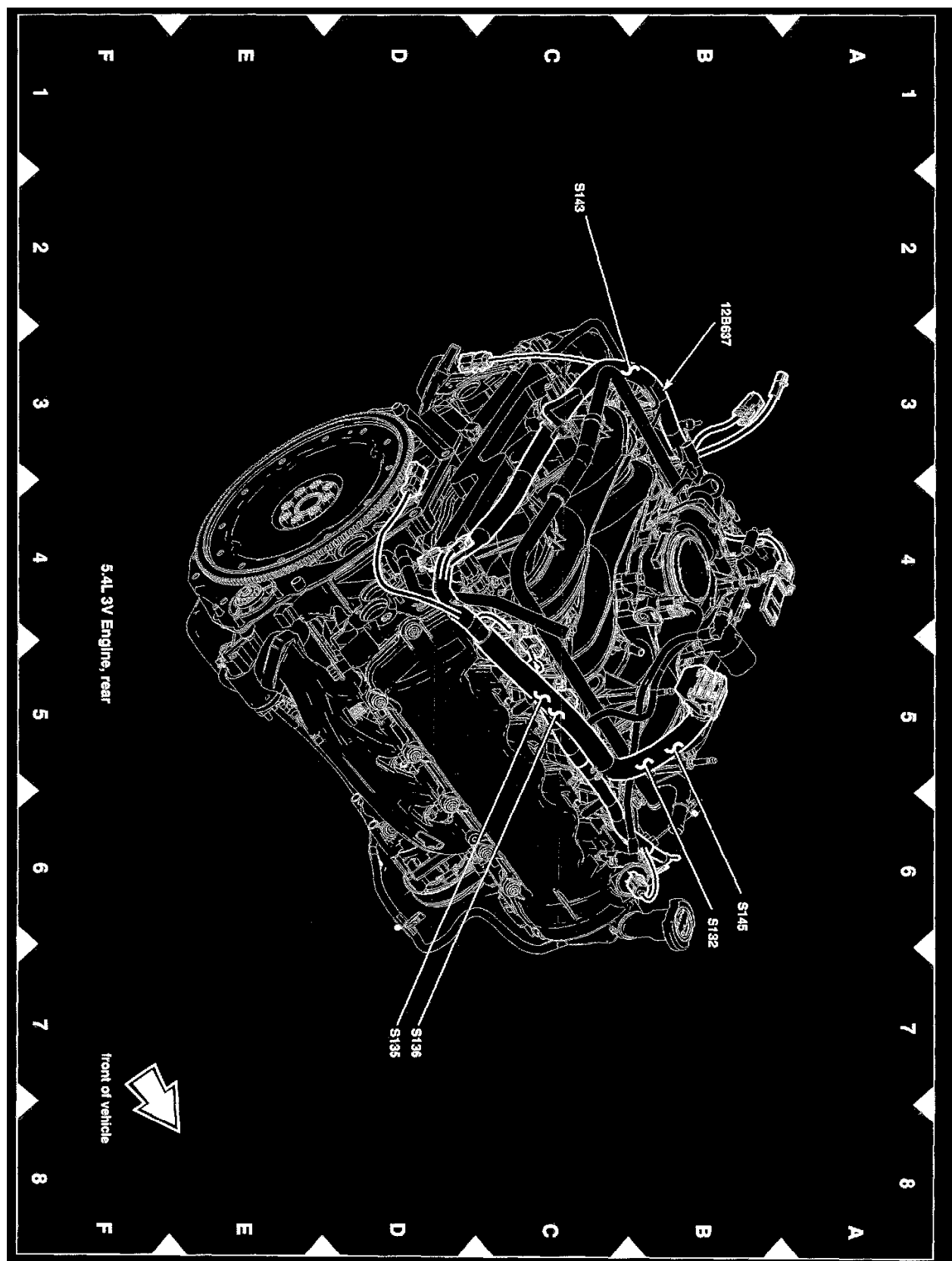
View 151-6 (Engine Compartment, LH Side)



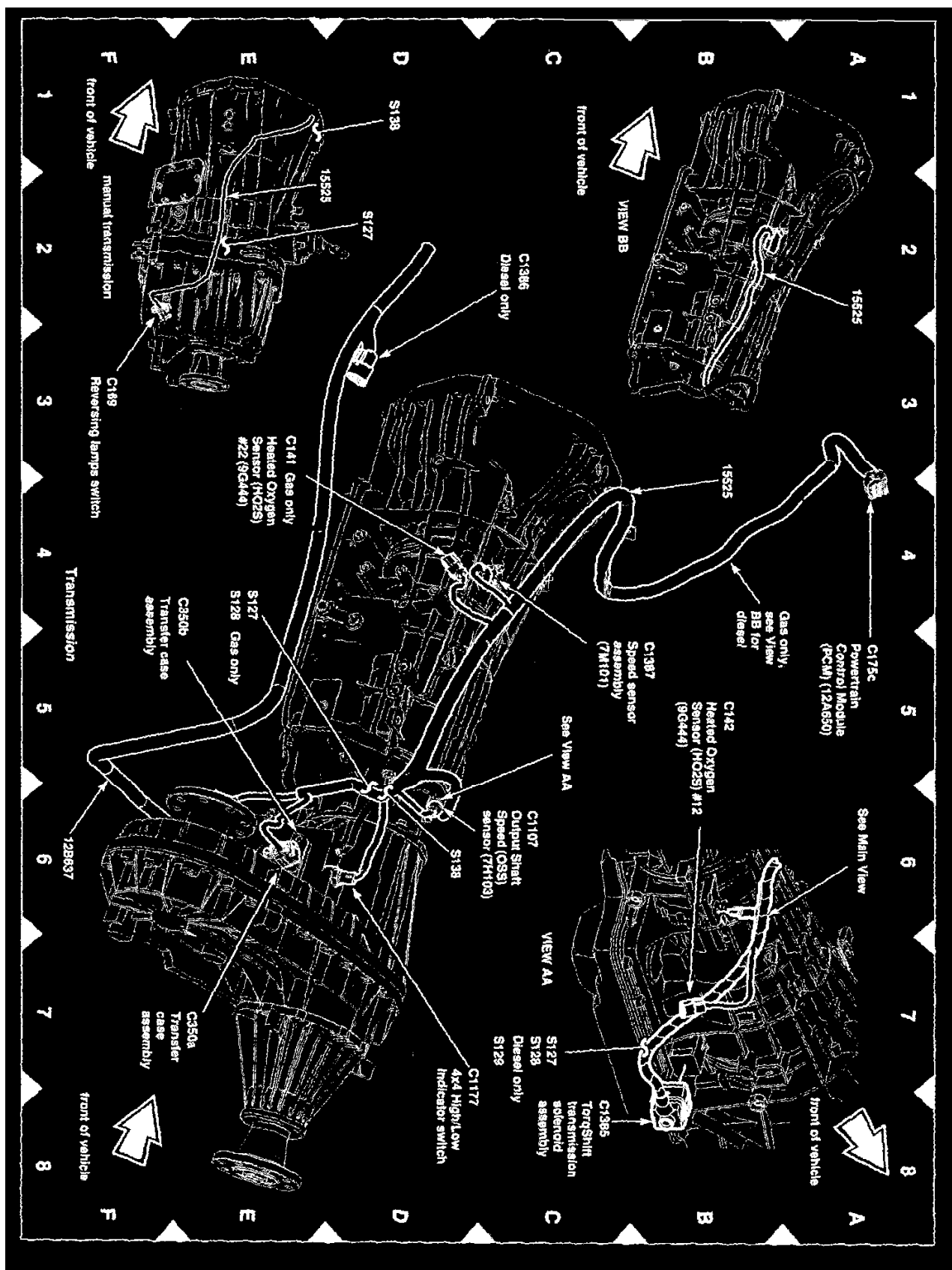
View 151-7 (Engine, Front)



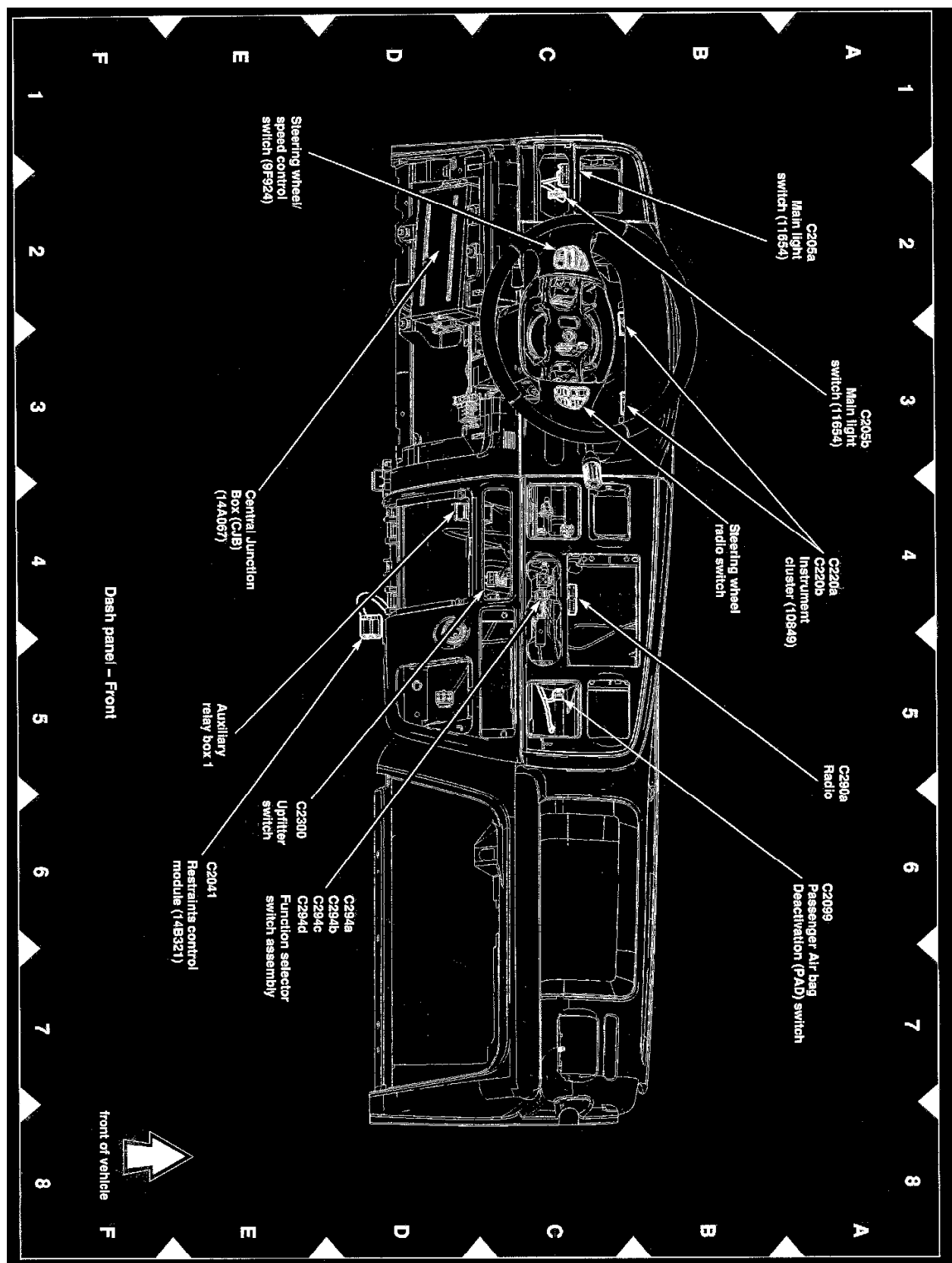
View 151-8 (Engine, Rear)



View 151-9 (Engine, Rear)



View 151-14 (Transmission)



View 151-15 (Dash Panel - Front)

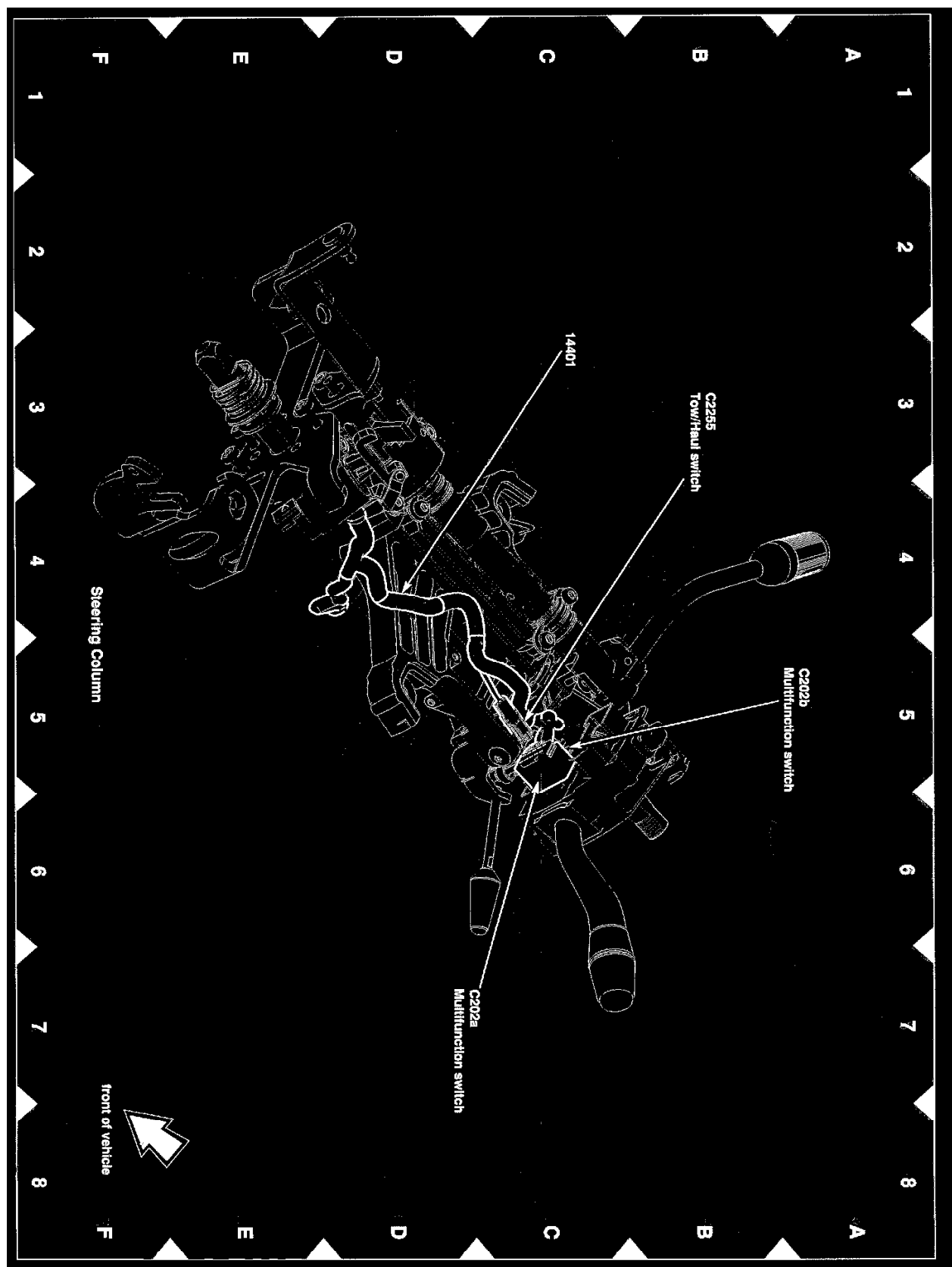




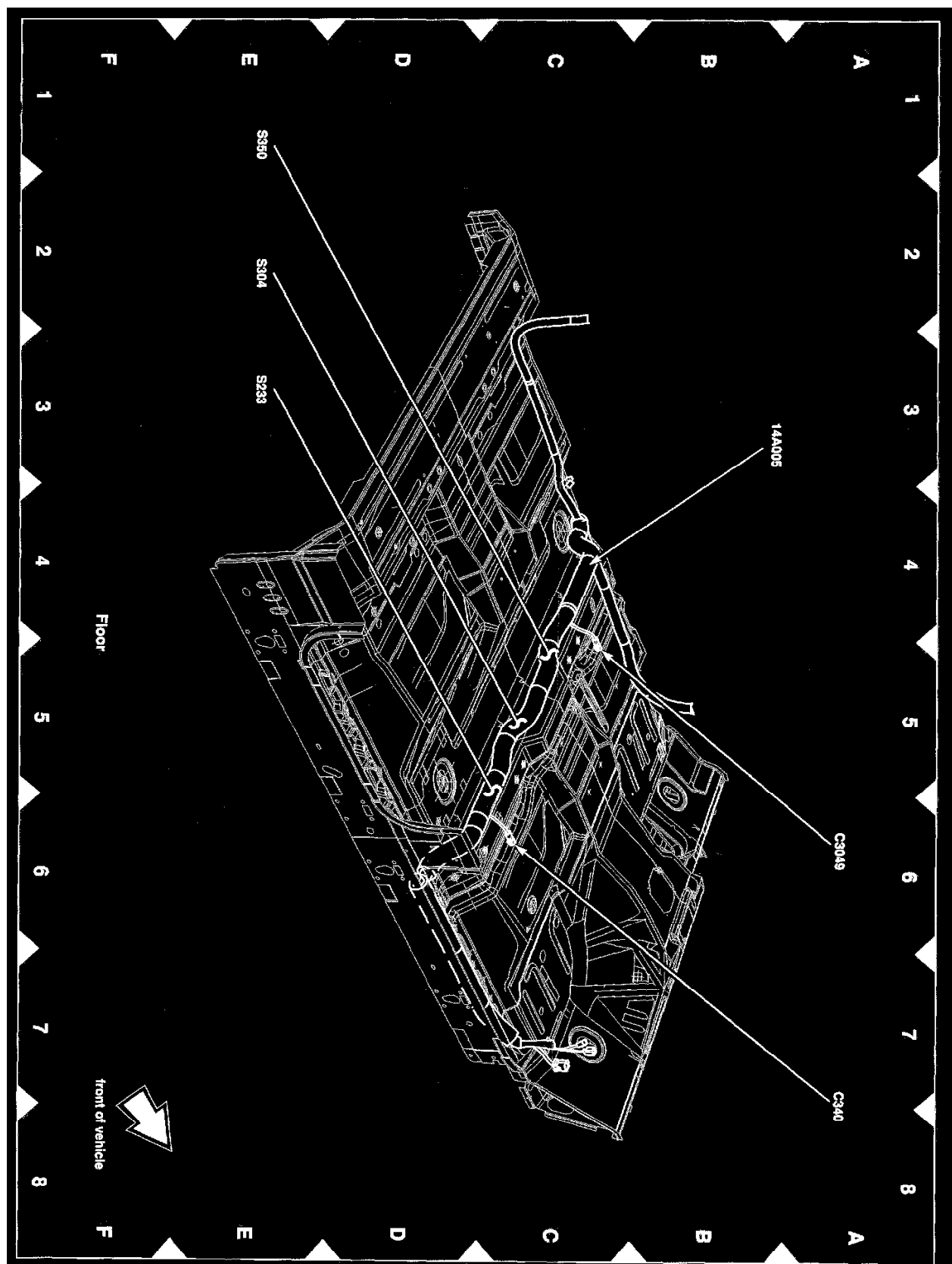
**View 151-16 (Instrument Panel)**



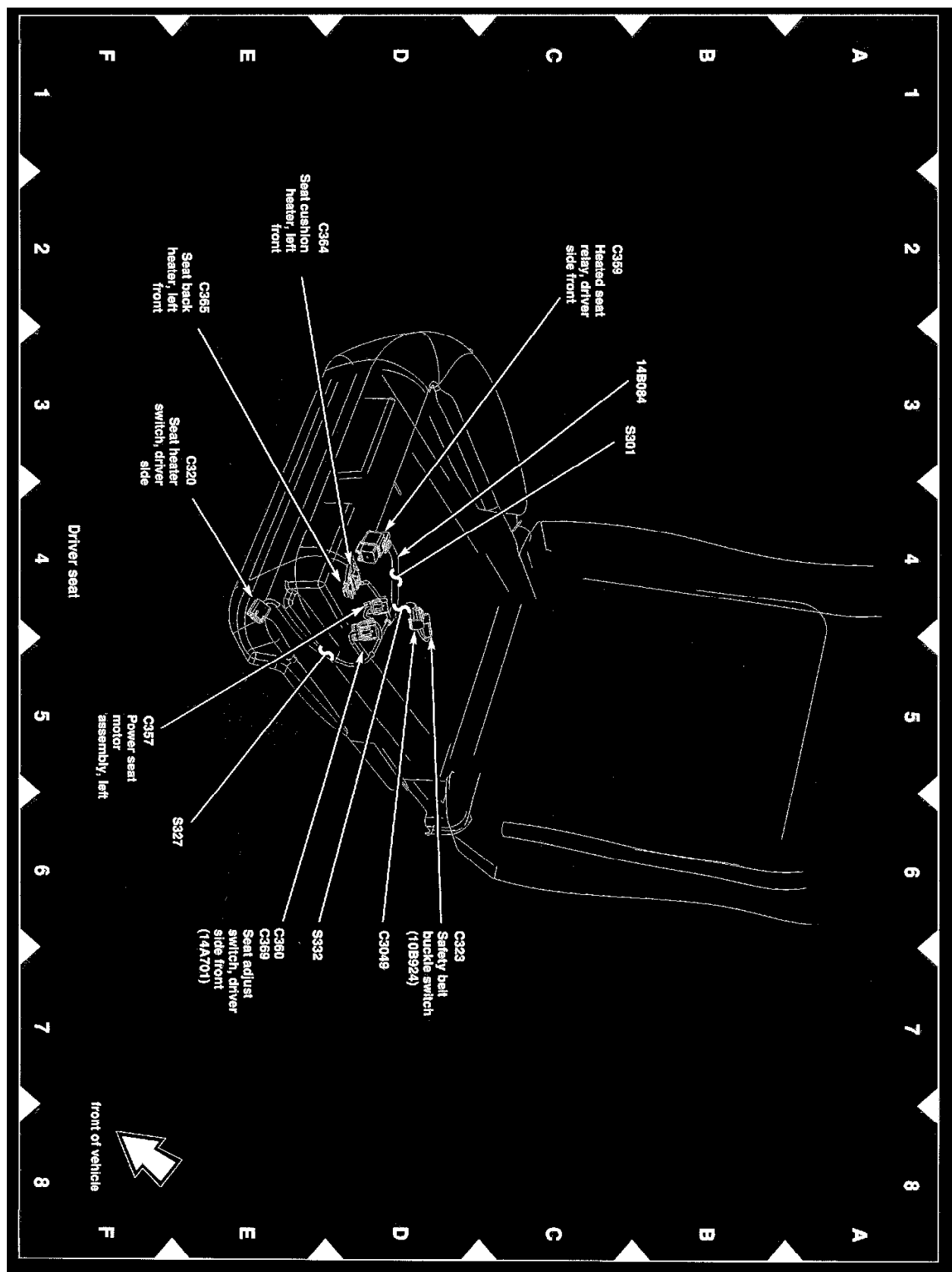
**View 151-17 (Instrument Cluster)**



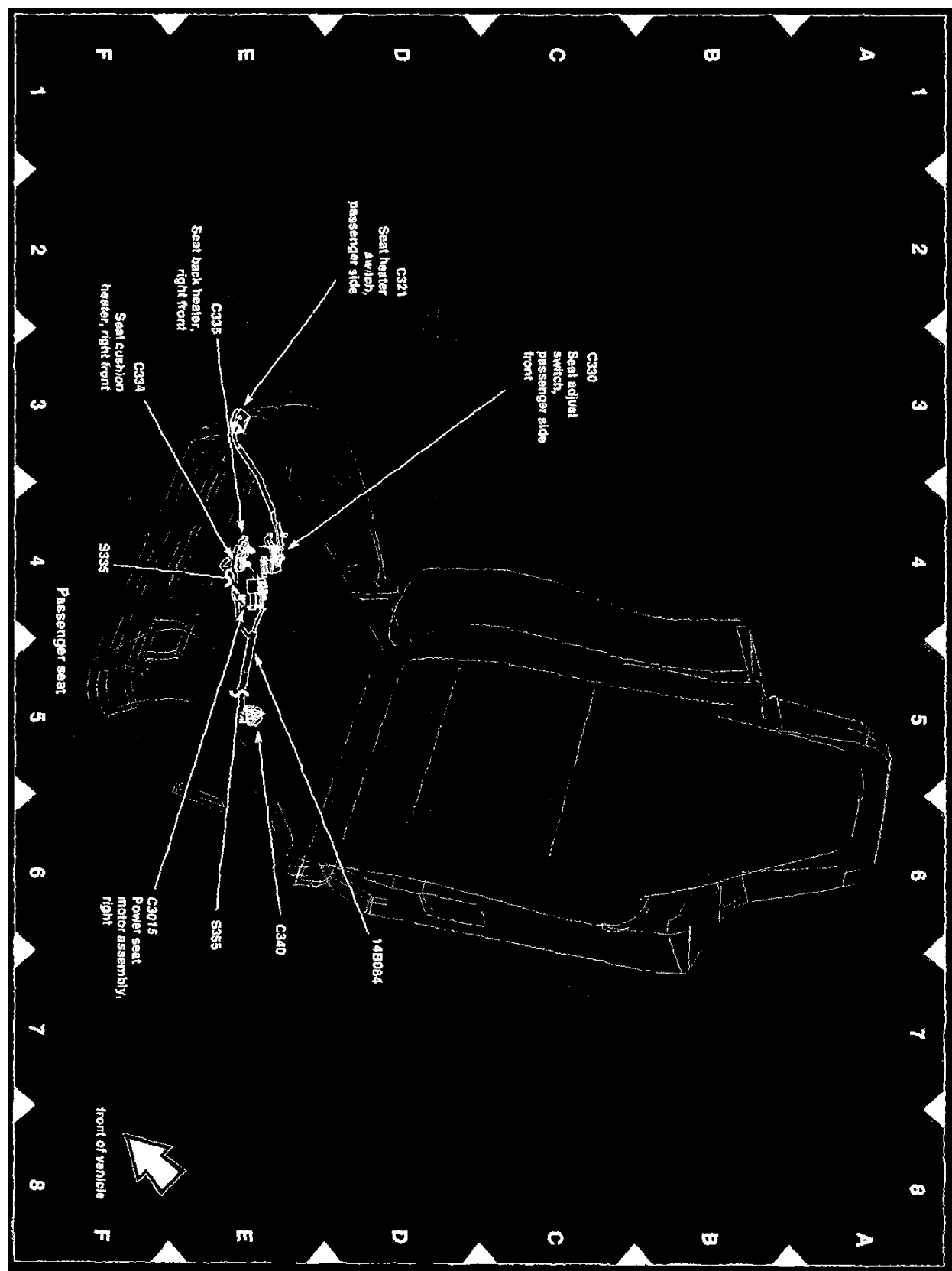
View 151-18 (Steering Column)



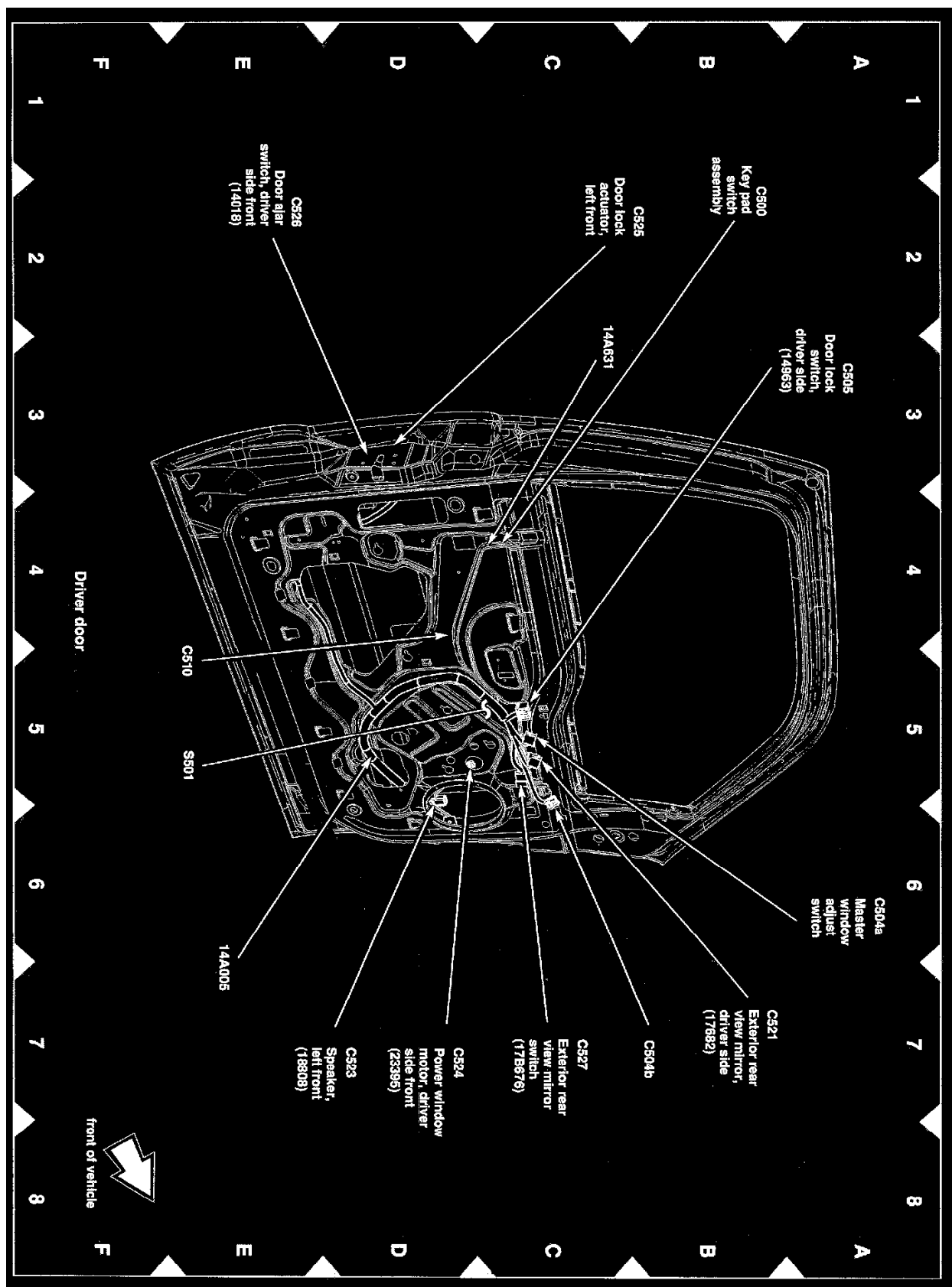
View 151-19 (Floor)



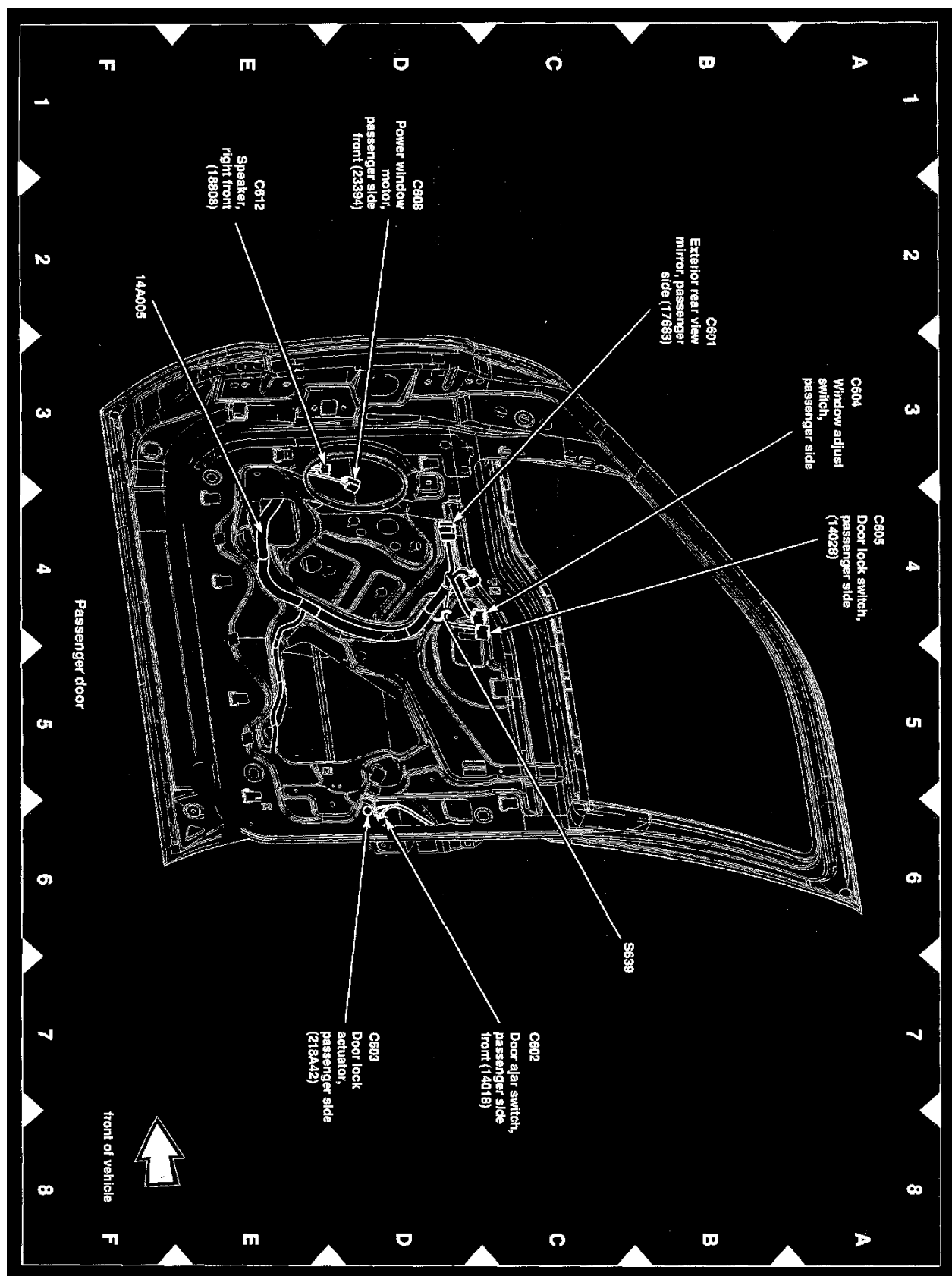
View 151-20 (Driver Seat)



View 151-21 (Passenger Seat)

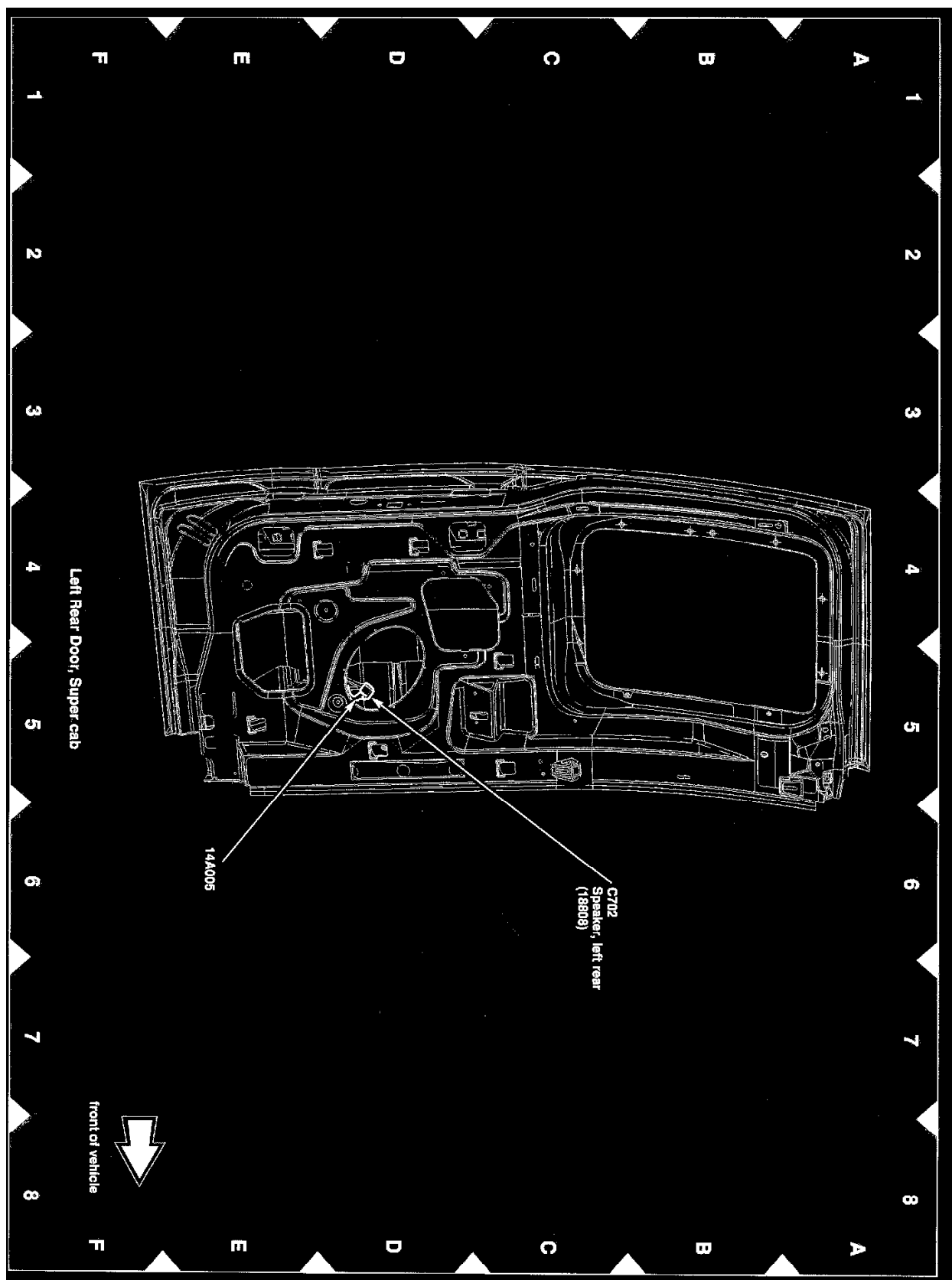


View 151-22 (Driver Door)

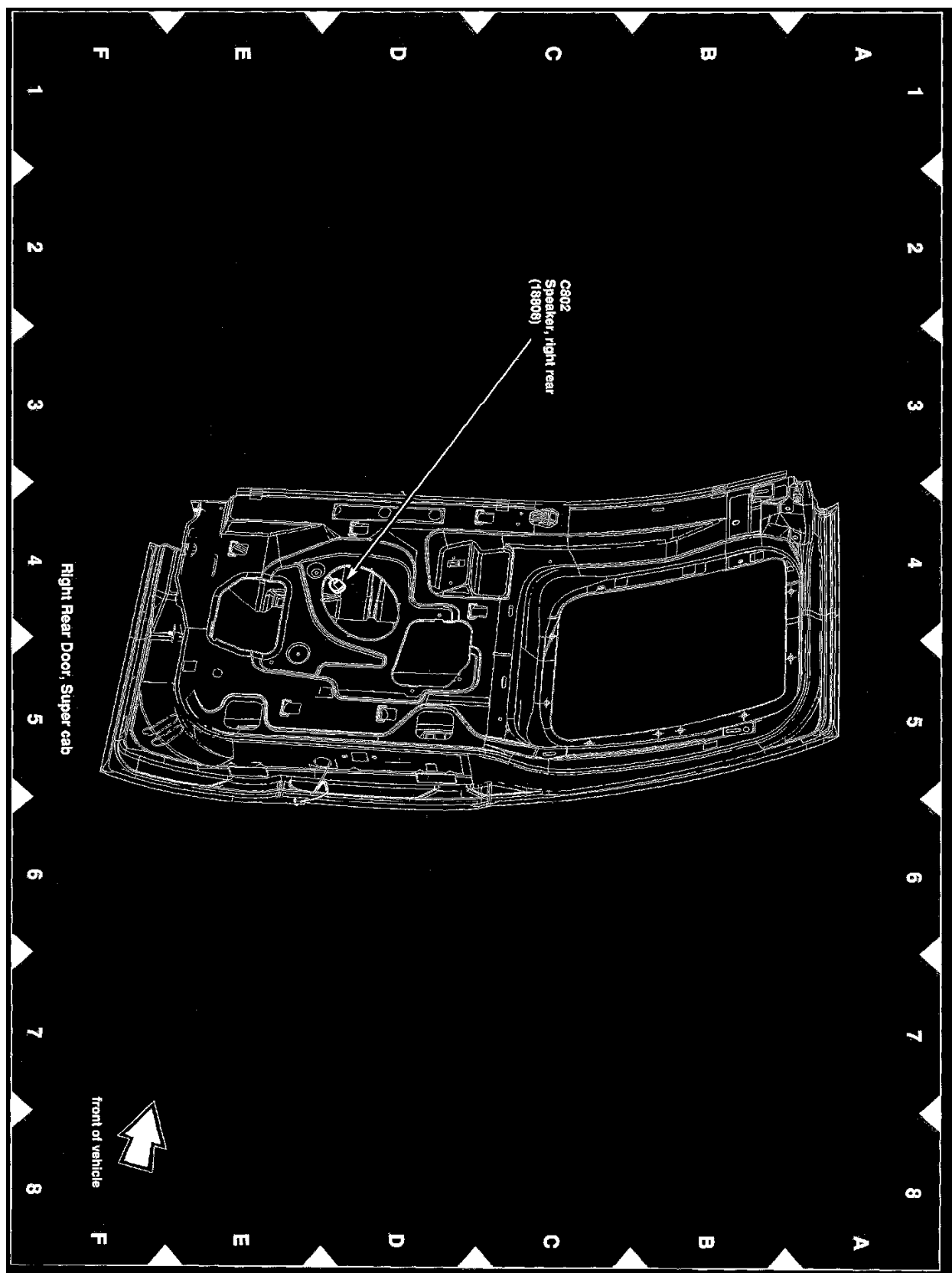


View 151-23 (Passenger Door)

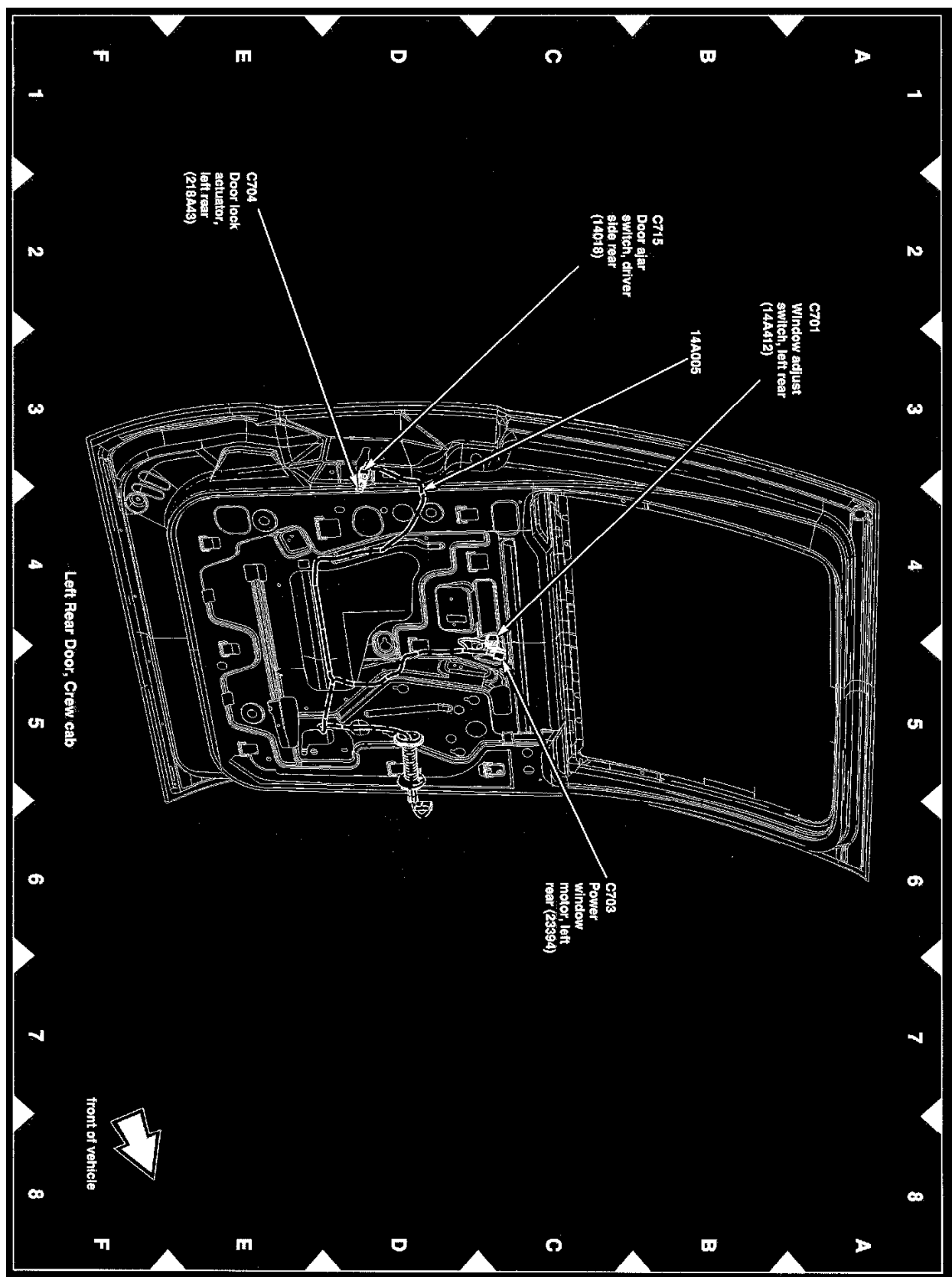




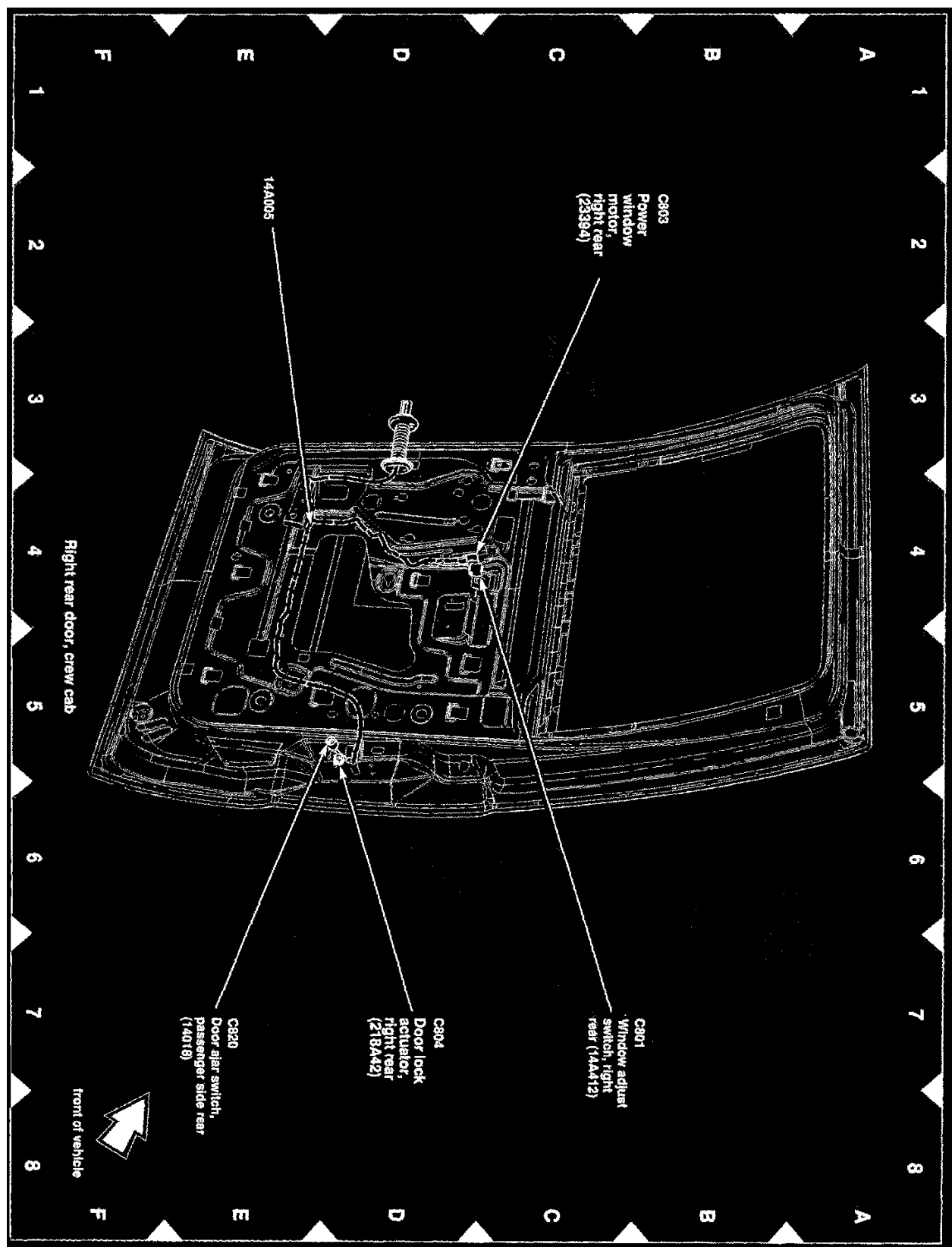
View 151-24 (Left Rear Door, Super Cab)



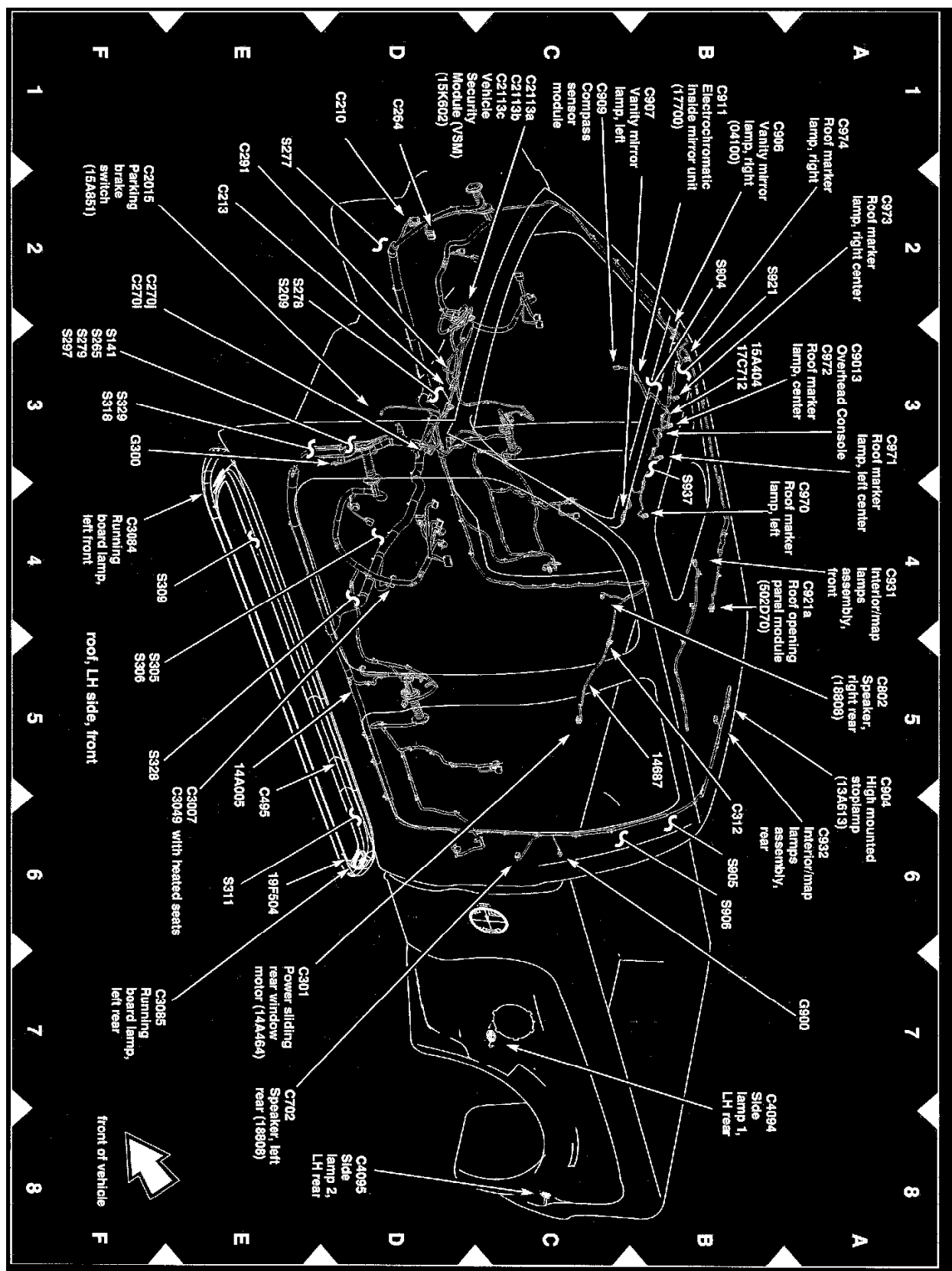
View 151-25 (Right Rear Door, Super Cab)



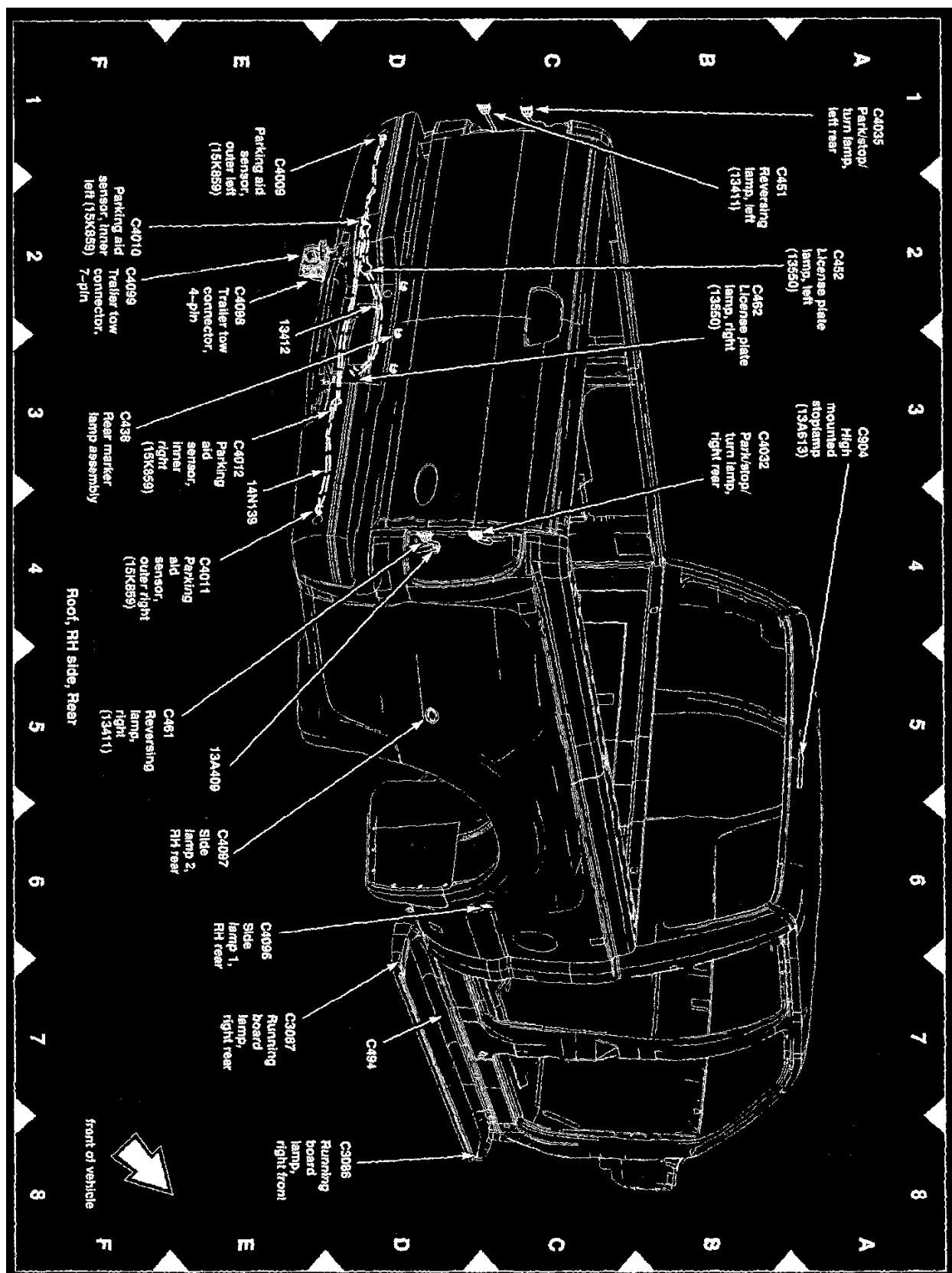
View 151-26 (Left Rear Door, Crew Cab)



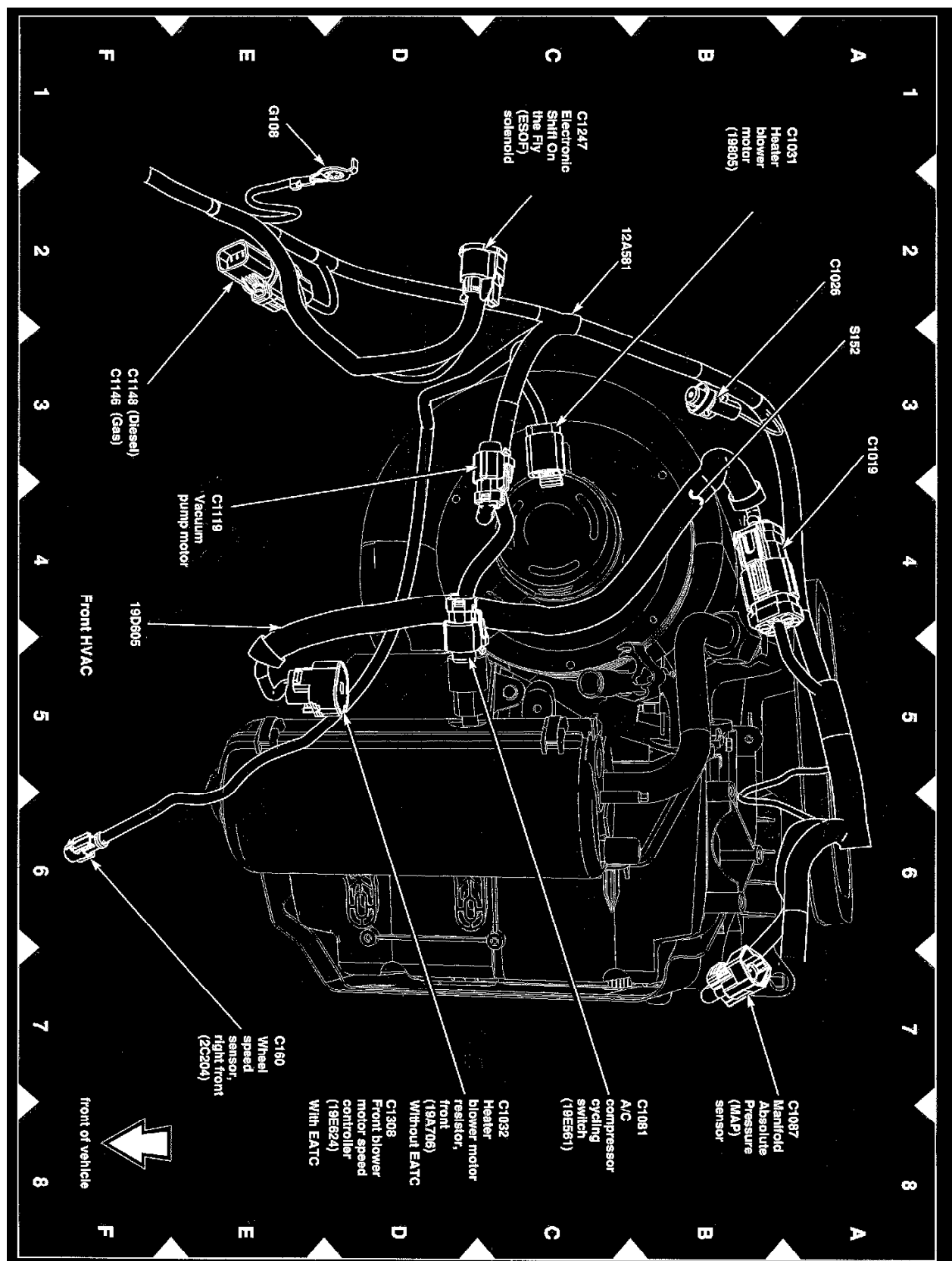
View 151-27 (Right Rear Door, Crew Cab)



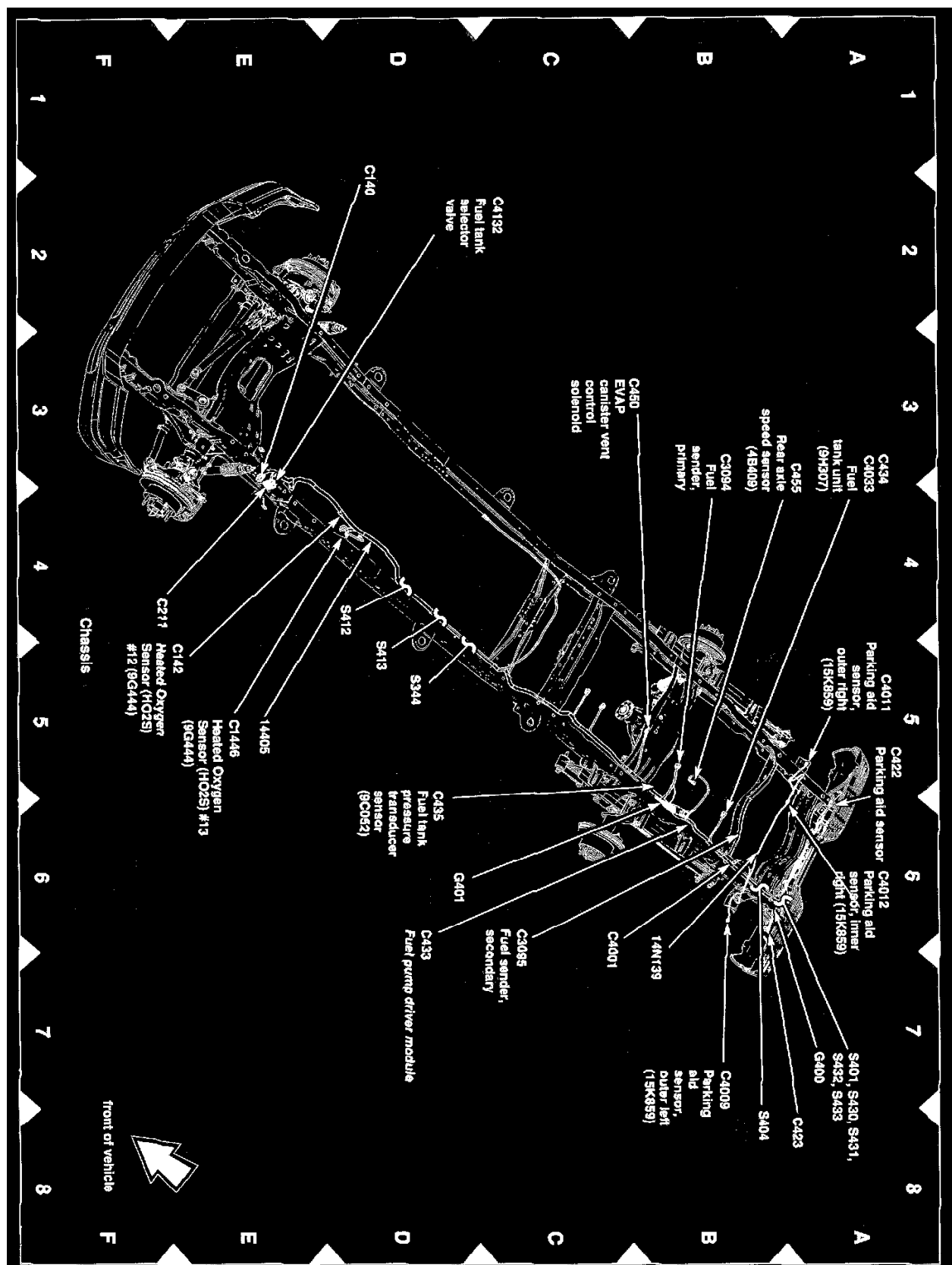
**View 151-28 (Roof, LH Side, Front)**



View 151-29 (Roof, RH Side, Rear)

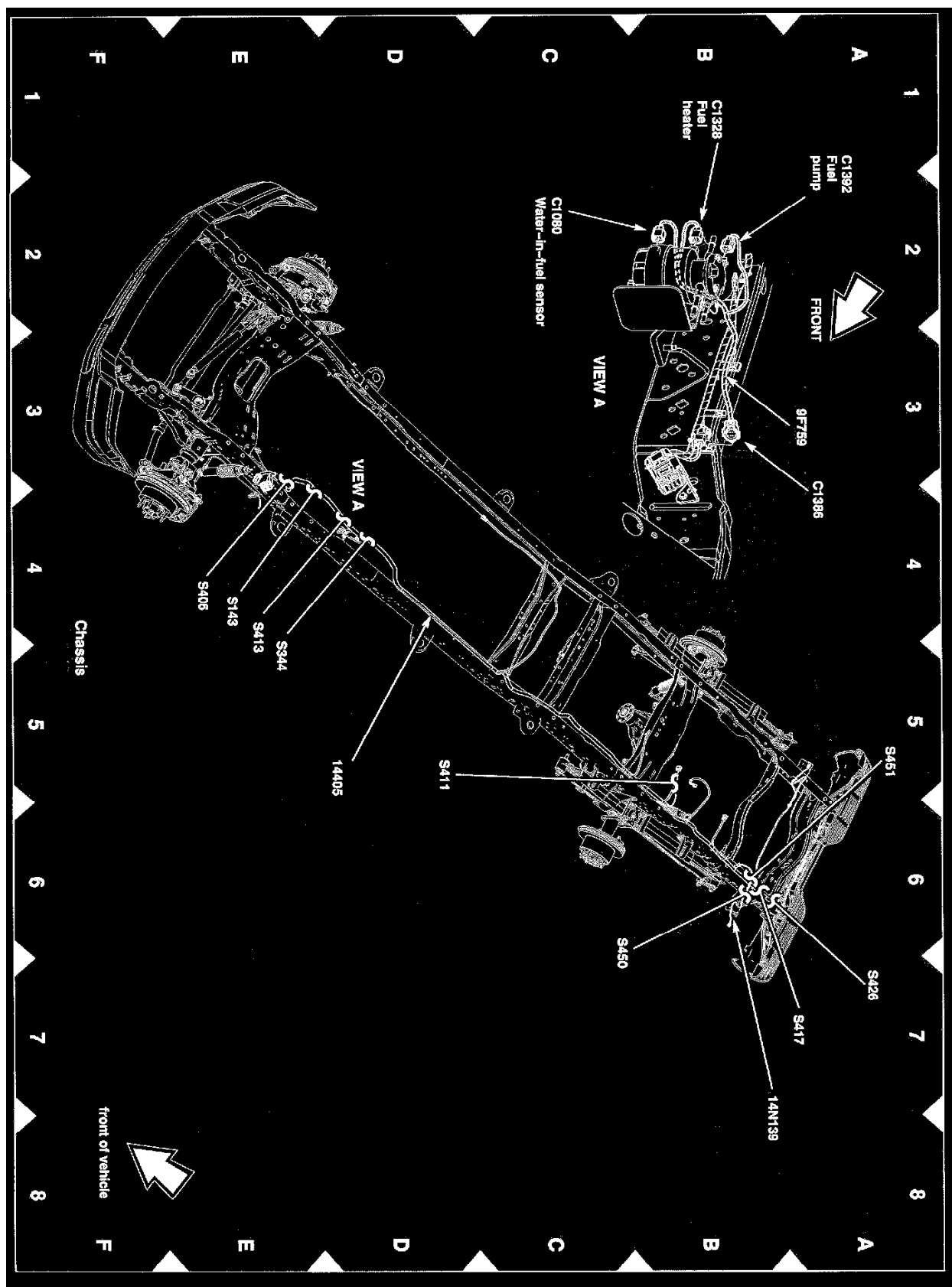


View 151-30 (Front HVAC)

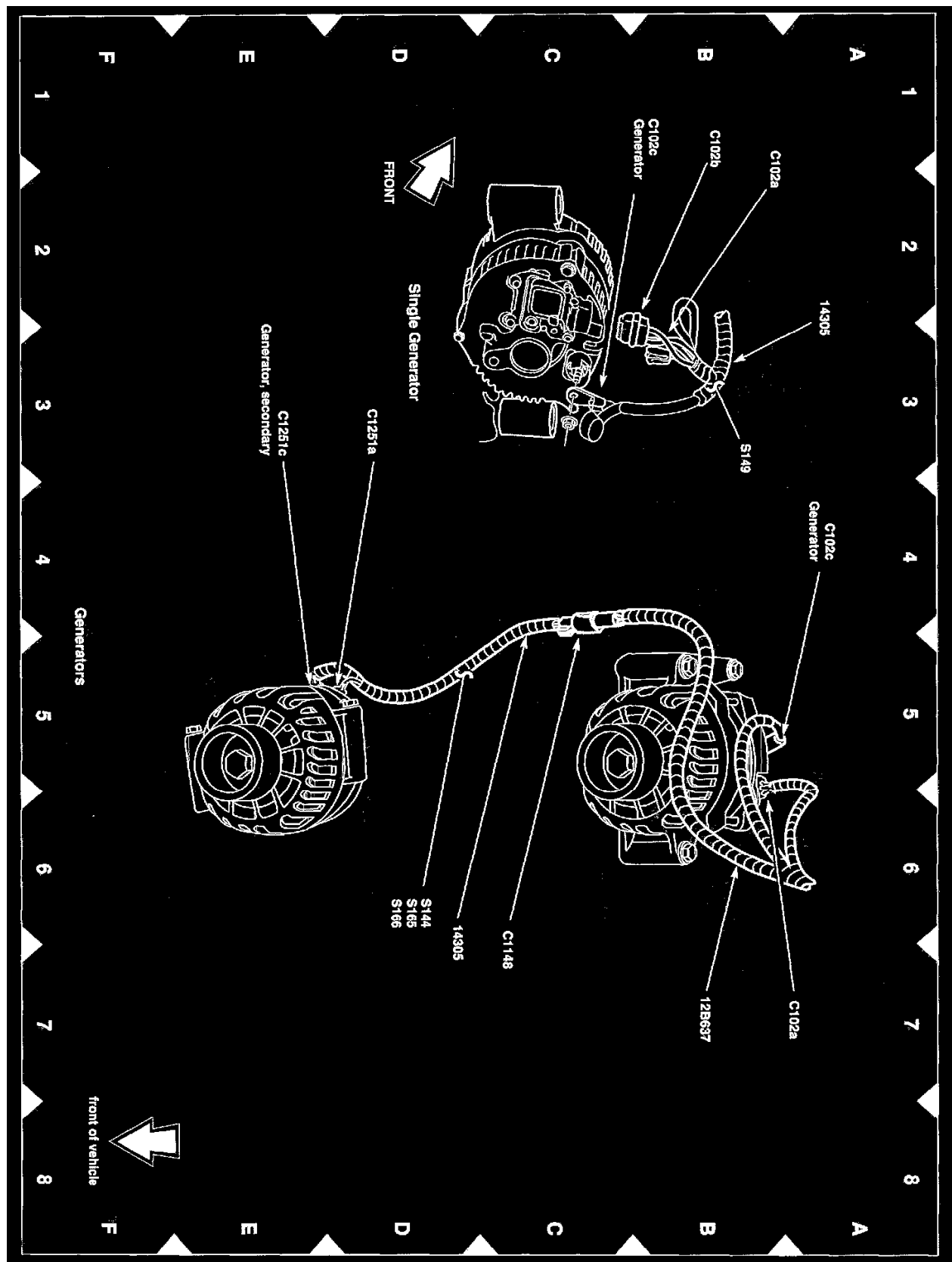


View 151-31 (Chassis)





View 151-32 (Chassis)



View 151-33 (Generators)