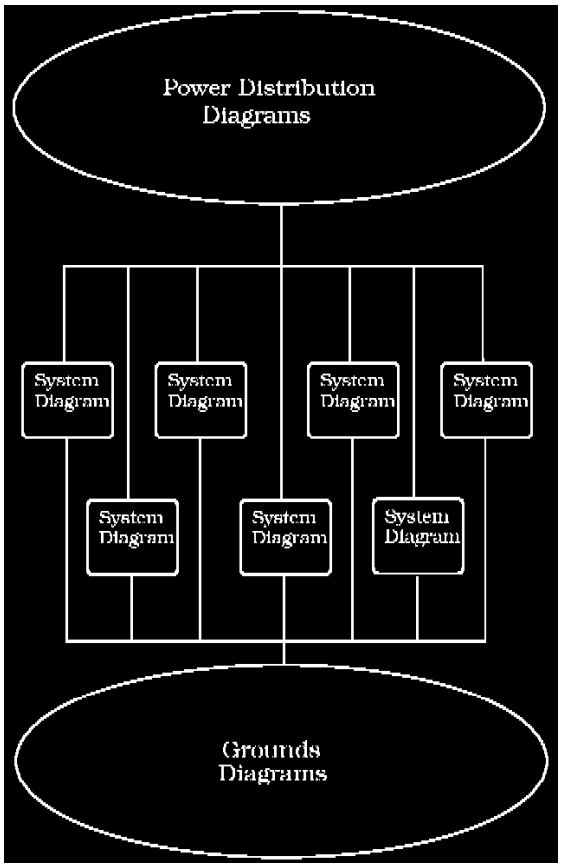
Vehicle: Diagrams

How to Find and Use These Diagrams



Diagrams are presented in three main categories:

- Power Distribution Diagrams
- System Diagrams
- Grounds Diagrams

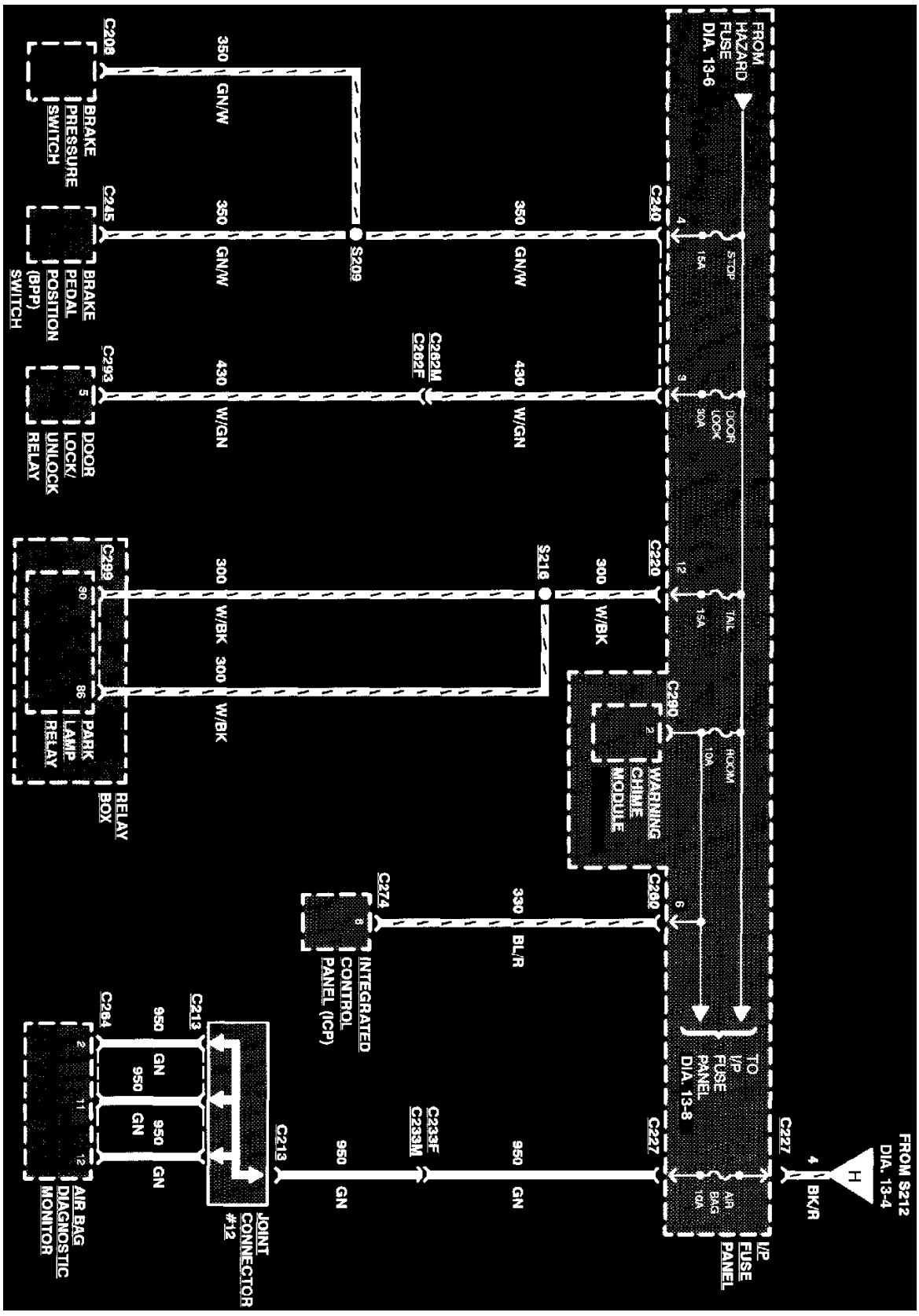


Diagram 13-7 (Sample Power Distribution Diagram Page)

Power Distribution Diagrams

Provide the circuit details of how the system diagrams are powered. The power distribution source is shown at the top of a diagram page. All wires, connectors, and splices are shown in the same manner that the current flows, ending at the component/system being powered near the bottom of a diagram page. Circuits that go from one diagram page to another will be marked with large arrow heads indicating which diagram page the circuit went to/came from.

The power distribution diagrams can be found at Starting and Charging/Power and Ground Distribution, or by following the hyperlinks at the top of the

diagram pages within the system diagrams.

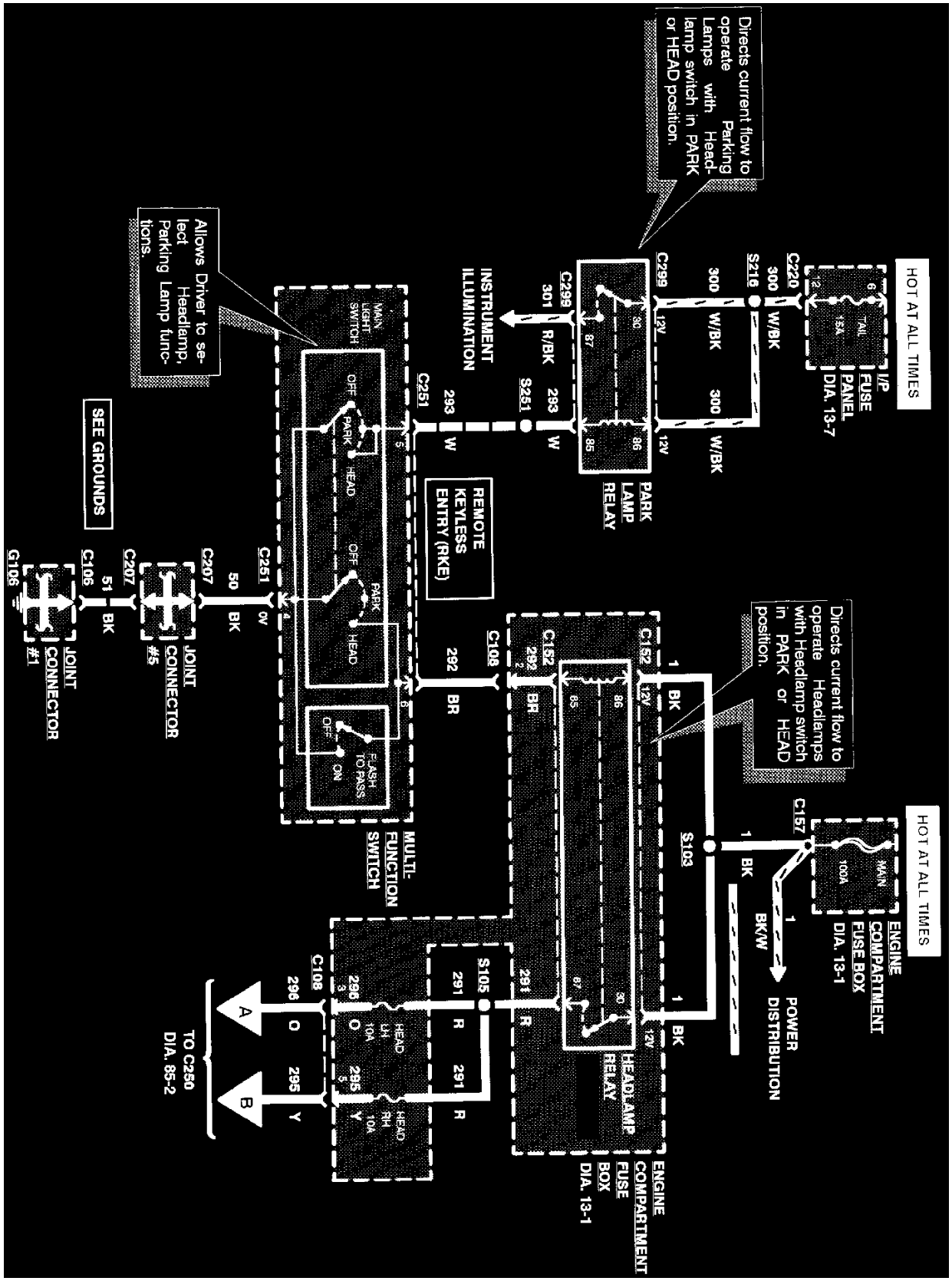


Diagram 85-1 (Sample System Diagram Page)

System Diagrams

Components that work together are shown together in a system/subsystem diagram or set of diagrams. The system feed (circuit breaker, fuse, etc.) is shown at the top of a diagram page. All wires, connectors, components, and splices are shown in the same manner that the current flows, ending at the ground at the bottom of a diagram page. Circuits that go from one diagram page to another will be marked with large arrow heads indicating which diagram page the circuit went to/came from.

The system diagrams can be found at the specific Alldata System/SubSystem that they are most closely related to, such as Cruise Control, Powertrain Management, Radio/Stereo, etc.

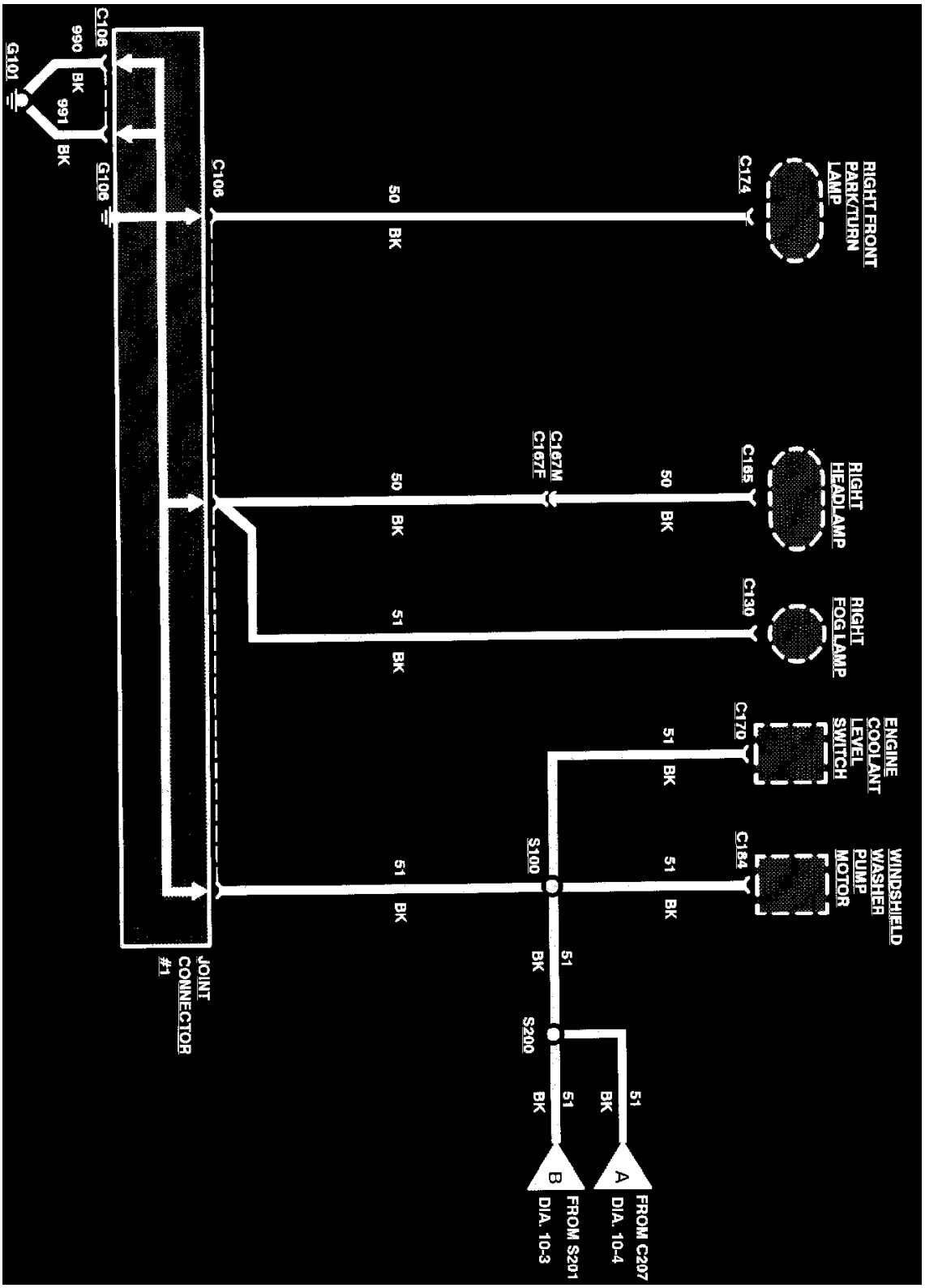
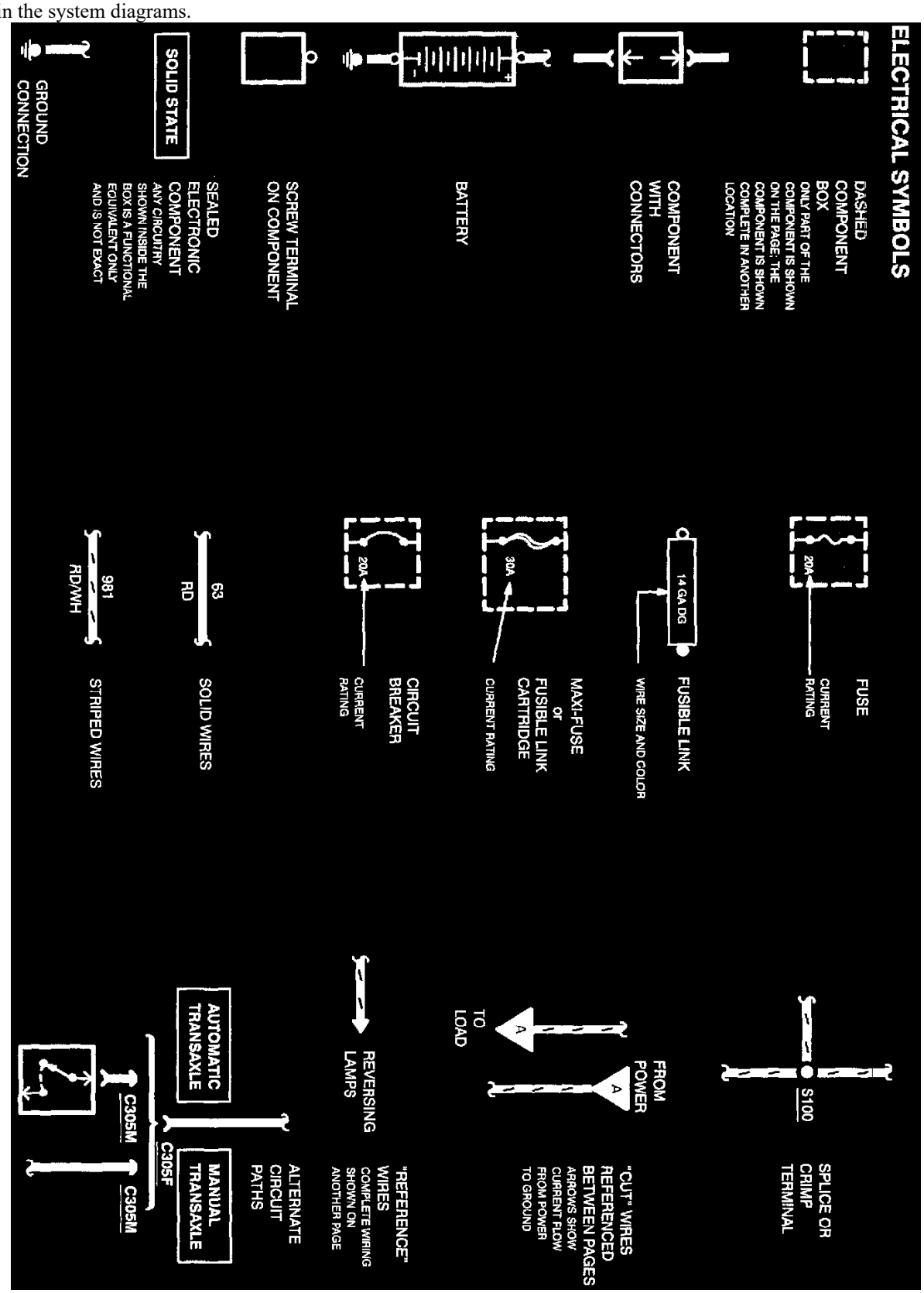


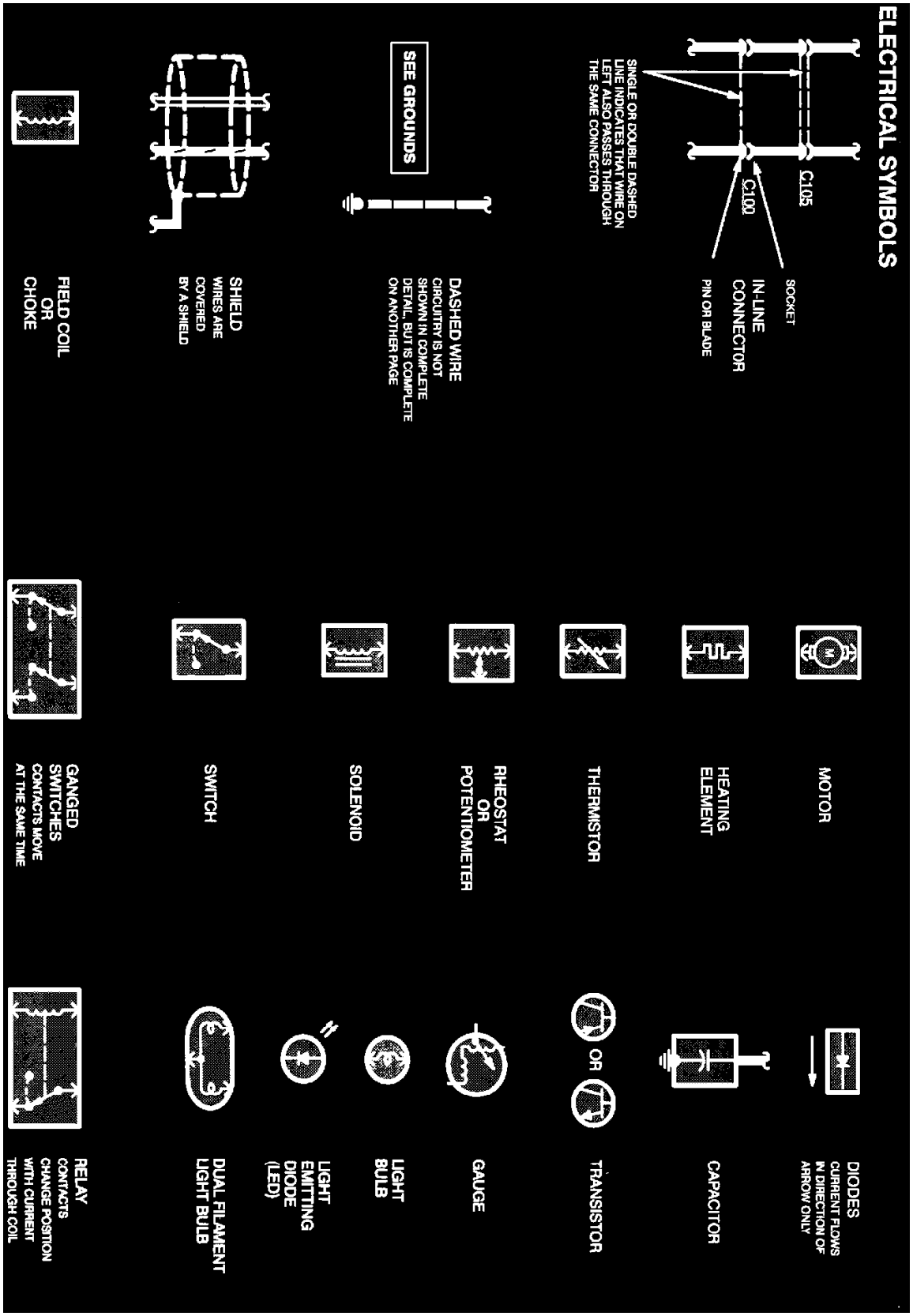
Diagram 10-1 (Sample Grounds Diagram Page)

Grounds Diagrams

Provide the circuit details of how the system diagrams are grounded. This information is useful for checking interconnections of the grounding circuits of different systems. The components/systems being grounded are shown at the top of a diagram page. All wires, connectors, and splices are shown in the same manner that the current flows, ending at the ground at the bottom of a diagram page. Circuits that go from one diagram page to another will be marked with large arrow heads indicating which diagram page the circuit went to/came from.

The grounds diagrams can be found at Starting and Charging/Power and Ground Distribution, or by following the hyperlinks at the bottom of the diagram pages within the system diagrams.





Electrical Symbols

Wire Color Code Identification

Wire and connector colors are listed as follows (standard Ford color abbreviations are used):

COLOR ABBREVIATIONS

BU	Blue	NA	Natural
BK	Black	OG	Orange

BN	Brown	PK	Pink
DB	Dark Blue	VT	Purple
DG	Dark Green	RD	Red
GN	Green	SR	Silver
GY	Gray	TN	Tan
LB	Light Blue	WH	White
LG	Light Green	YE	Yellow

Note: Whenever a wire is labeled with two colors, the first color listed is the basic color of the wire, and the second color listed is the stripe marking of the wire.

Diagnostic Aids

HOW TO FIND ELECTRICAL CONCERNS

TROUBLESHOOTING STEPS

These six steps present an orderly method of troubleshooting.

Step 1. Verify the concern.
- Operate the complete system to check the accuracy and completeness of the customer's complaint.

Step 2. Narrow the concern.
- Using the wiring diagrams, narrow down the possible causes and locations of the concern to pinpoint the exact cause.
- Read the description notes at the components and study the wiring schematic. You should then know enough about the circuit operation to determine where to check for the trouble.

Step 3. Test the suspected cause.
- Use electrical test procedures to find the specific cause of the symptoms.
- The component location reference bars and the pictures will help you find components. Component location information for connectors, diodes, resistors, splices and grounds can be found at Vehicle Locations.

Step 4. Verify the cause.
- Confirm that you have found the correct cause by connecting jumper wires and/or temporarily installing a known good component and operating the circuit.

Step 5. Make the repair.
- Repair or replace the inoperative component.

Step 6. Verify the repair.
- Operate the system as in Step 1 and check that your repair has removed all symptoms without creating any new symptoms.

Some engine circuits may need special test equipment and special procedures. See Testing and Inspection for the specific component, system, or sub-system in question.

NOTE: Most Ford testing and inspection procedures will be found at the system/sub-system level; only a few component tests are provided by OE.

TROUBLESHOOTING TOOLS

JUMPER WIRE

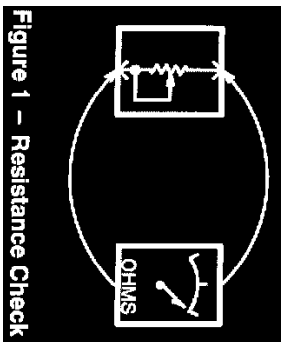
This is a test lead used to connect two points of a circuit. A Jumper Wire can bypass an open to complete a circuit.

WARNING: Never use a jumper wire across loads (motors,etc.) connected between hot and ground. This direct battery short may cause injury or fire.

VOLTMETER

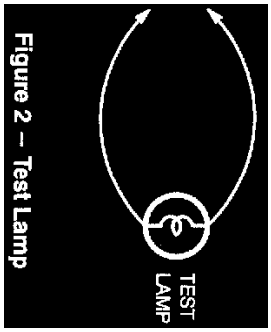
A DC Voltmeter measures circuit voltage. Connect negative (- or black) lead to ground, and positive (+ or red) lead to voltage measuring point.

OHMMETER



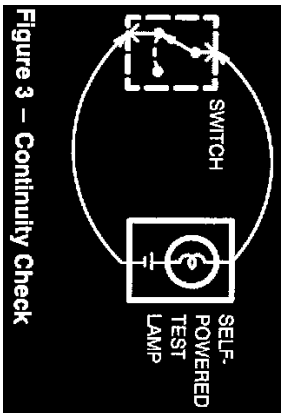
An Ohmmeter shows the resistance between two connected points.

TEST LAMP



A Test Light is a **12-volt** bulb with two test leads.
Uses: Voltage Check, Short Check.

SELF-POWERED TEST LAMP



The Self-Powered Test Lamp is a bulb, battery and set of test leads wired in series. When connected to two points of a continuous circuit, the bulb glows.
Uses: Continuity Check, Ground Check.

CAUTION: When using a self -powered test lamp or ohmmeter; be sure power is off in circuit during testing. Hot circuits can cause equipment damage and false readings.

In an inoperative circuit with a switch in series with the load, jumper the terminals of the switch to power the load. If jumpering the terminals powers the circuit, the switch is inoperative.

CONTINUITY CHECK
(Locating open circuits)

Connect one lead of Self-Powered Test Lamp or Ohmmeter to each end of circuit. Lamp will glow if circuit is closed. Switches and fuses can be checked in the same way.

VOLTAGE CHECK

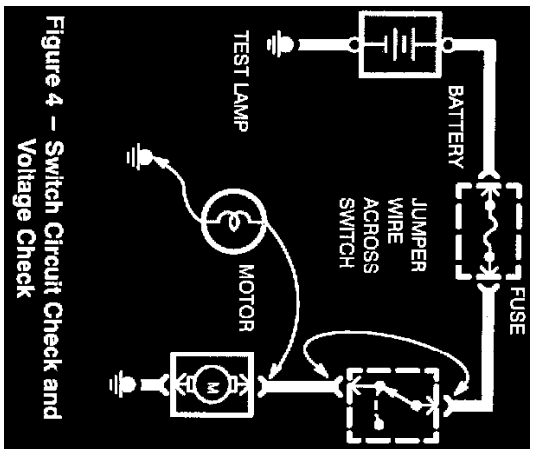


Figure 4 – Switch Circuit Check and Voltage Check

Connect one lead of test lamp to a known good ground or the negative (-) battery terminal. Test for voltage by touching the other lead to the test point. Bulb goes on when the test point has voltage.

SHORT CHECK

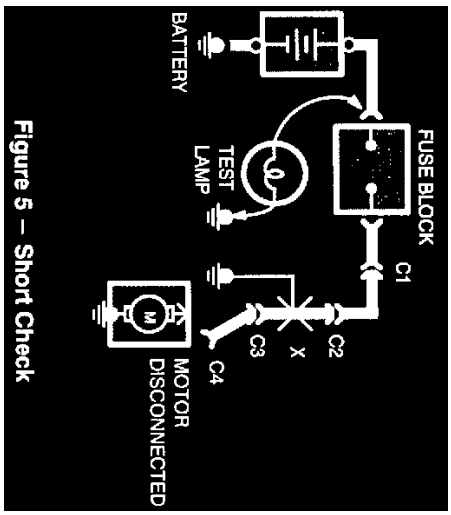


Figure 5 – Short Check

A Fuse that repeatedly blows is usually caused by a short to ground. It's important to be able to locate such a short quickly.

1. Turn off everything powered through the Fuse.
2. Disconnect other loads powered through the Fuse:
   - Motors: disconnect motor connector (Connector C4).
   - Lights: remove bulbs.
3. Turn Ignition Switch to RUN (if necessary) to power Fuse.
4. Connect one Test Lamp lead to hot end of blown Fuse. Connect other lead to ground. Bulb should glow, showing power to Fuse. This step is just a check to be sure you have power to the circuit)
5. Disconnect the test lamp lead that is connected to ground, and reconnect it to the load side of the Fuse at the connector of the disconnected component. (Connect the test lamp lead to connector C4).
   - If the Test Lamp is off, the short is in the disconnected component.
   - If the Test Lamp goes on, the short is in the wiring. You must find the short by disconnecting the circuit connectors, one at a time, until the Test Lamp goes out. For example, with a ground at X, the bulb goes out when C1 or C2 is disconnected, but not after disconnecting C3. This means the short is between C2 and C3.

GROUND CHECK

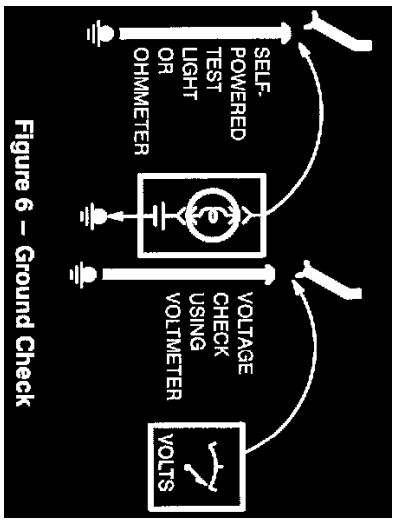


Figure 6 – Ground Check

Turn on power to the circuit. Perform a Voltage Check between the suspected inoperative ground and the frame. Any indicated voltage means that the ground is inoperative.

Turn off power to the circuit. Connect one lead of a Self-Powered Test Lamp or Ohmmeter to the wire in question and the other lead to a known ground. If the bulb glows, the circuit ground is OK.

DIAGRAMS

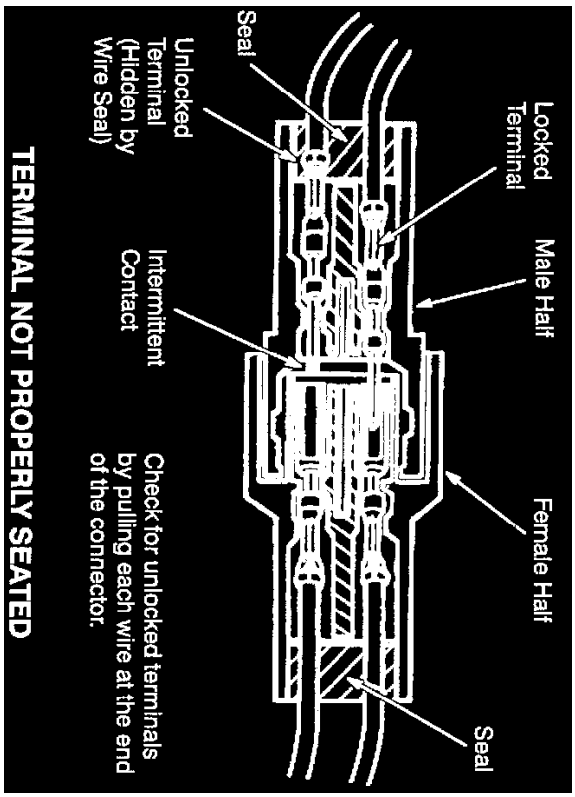
These diagrams make it easy to identify common points in circuits. This knowledge can help narrow the concern to a specific area. For example, if several circuits fail at the same time, check for a common power or ground connection (see Power and Ground Distribution Diagrams). If part of a circuit fails, check the connections between the part that works and the part that doesn't work.

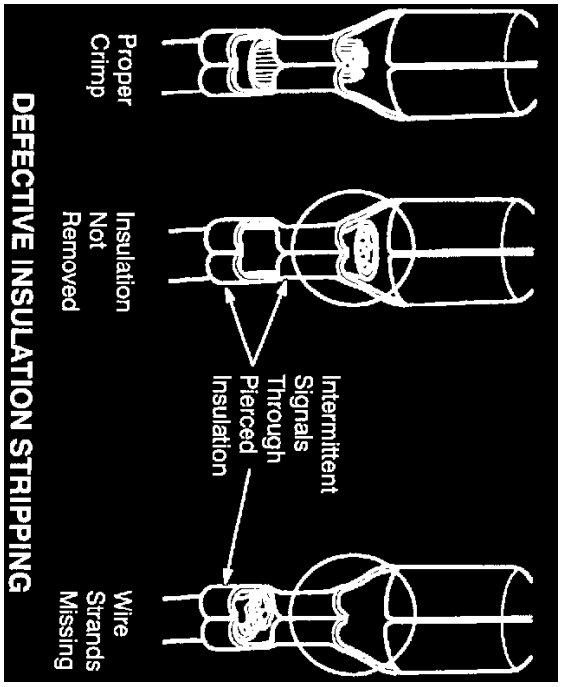
For example, if the lo beam headlamps work, but the high beams and the indicator lamp don't work, then power and ground paths must be good. Since the dimmer switch is the component that switches this power to the high beam lights and indicator, it is most likely the cause of failure.

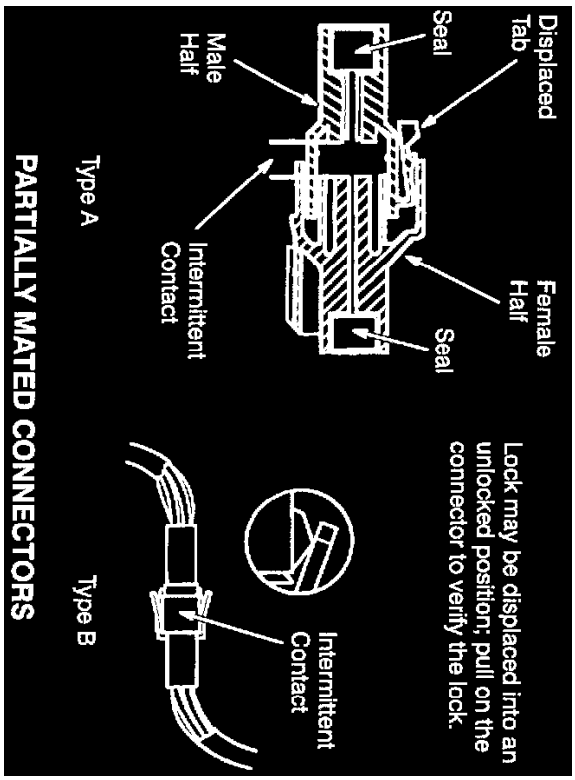
TROUBLESHOOTING WIRING HARNESS AND CONNECTOR HIDDEN CONCERNS

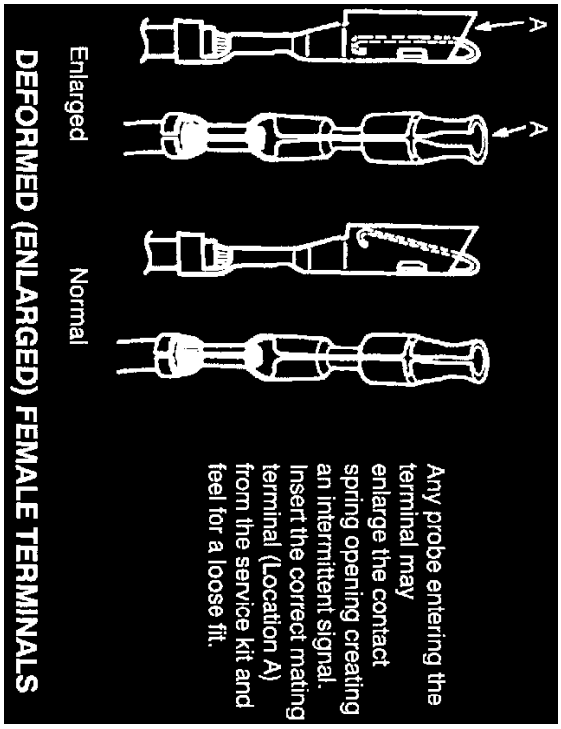
The following illustrations are known examples of wiring harness, splices and connectors that will create intermittent electrical concerns. The concerns are hidden and can only be discovered by a physical evaluation as shown in each illustration.

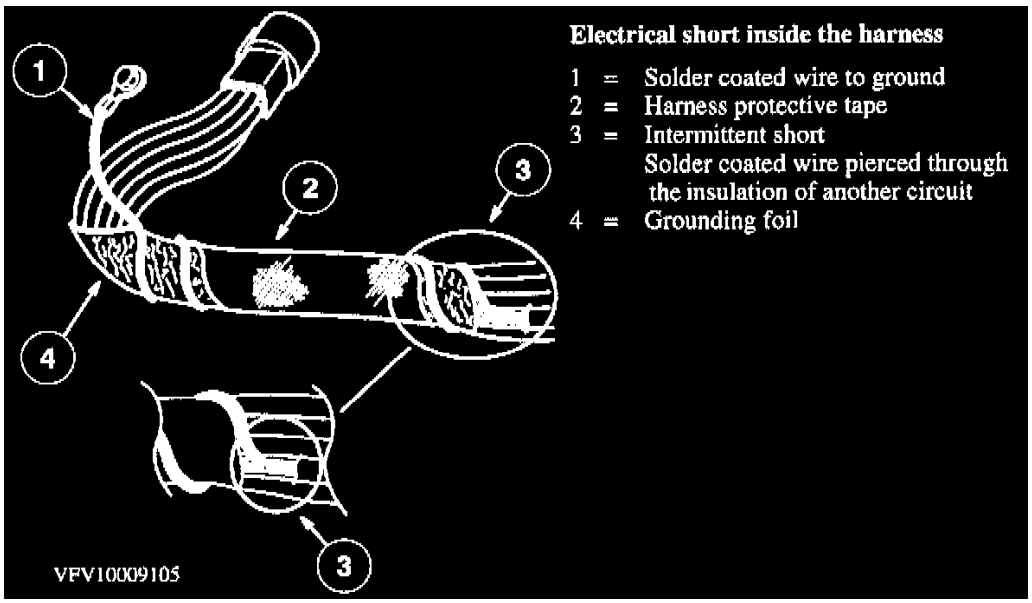
NOTE: Several components, such as the PCM, utilize gold plated terminals in their connections to the wiring harness. If those terminals need to be replaced, they must be replaced with a gold plated terminal.

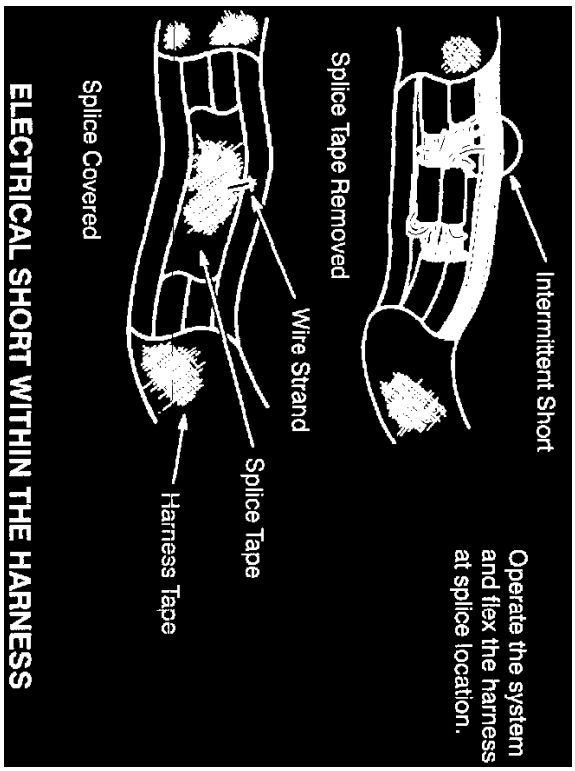

Locked Terminal
Male Half
Female Half
Seal
Seal
Unlocked Terminal (Hidden by Wire Seal)
Intermittent Contact
Check for unlocked terminals by pulling each wire at the end of the connector.
TERMINAL NOT PROPERLY SEATED

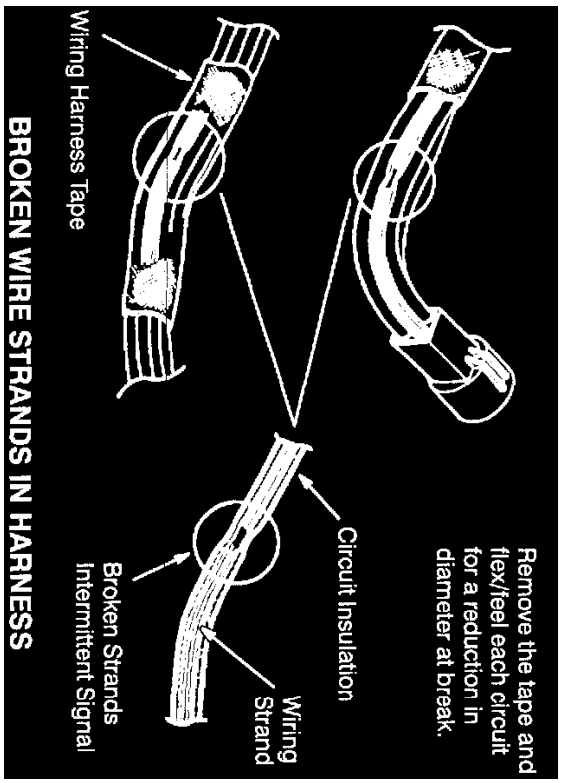

Proper Crimp
Insulation Not Removed
Intermittent Signals Through Pierced Insulation
Wire Strands Missing
DEFECTIVE INSULATION STRIPPING


Displaced Tab
Seal
Male Half
Intermittent Contact
Female Half
Seal
Type A
Lock may be displaced into an unlocked position; pull on the connector to verify the lock.
Intermittent Contact
Type B
PARTIALLY MATED CONNECTORS

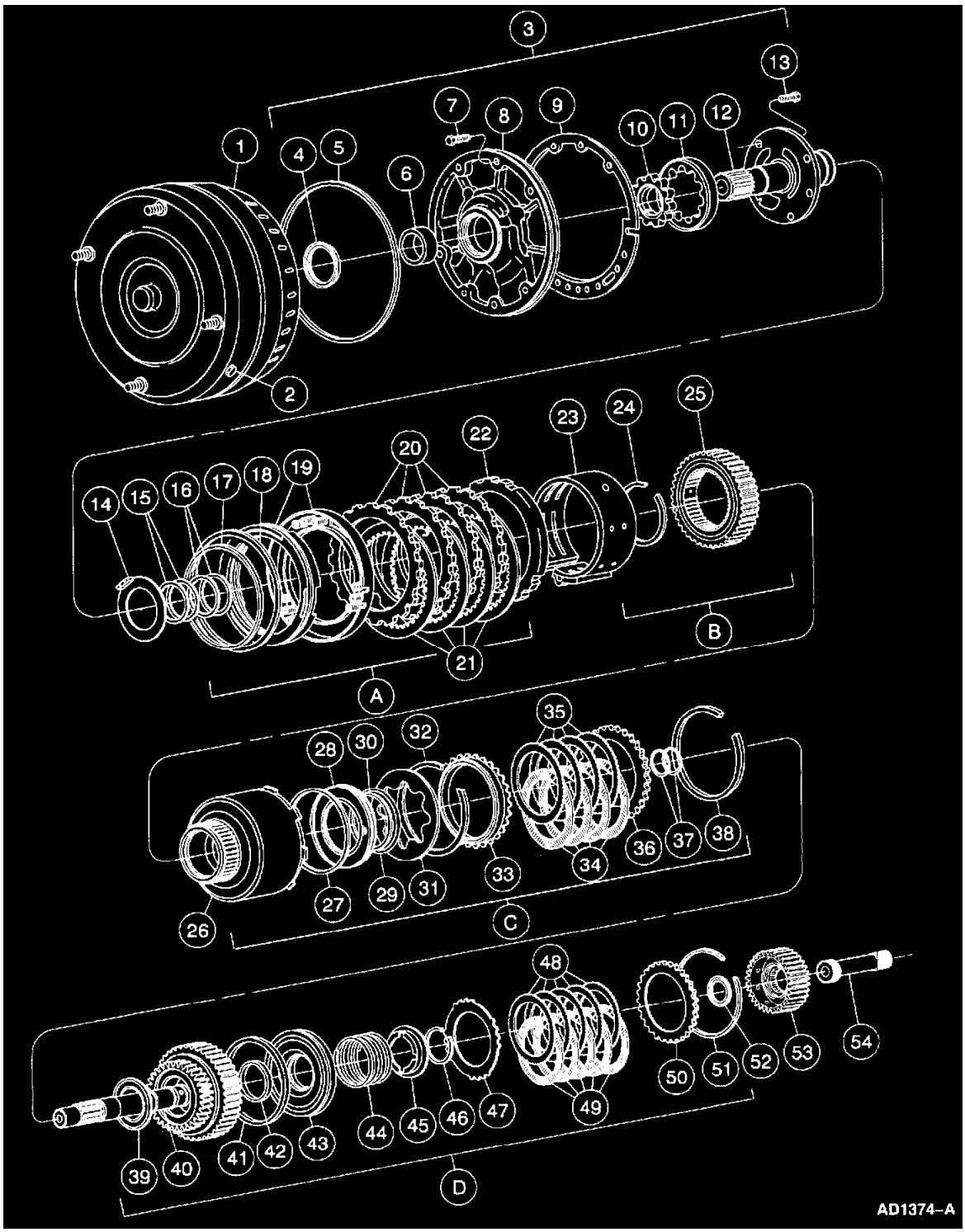

A
A
Enlarged
Normal
Any probe entering the terminal may enlarge the contact spring opening creating an intermittent signal. Insert the correct mating terminal (Location A) from the service kit and feel for a loose fit.
DEFORMED (ENLARGED) FEMALE TERMINALS

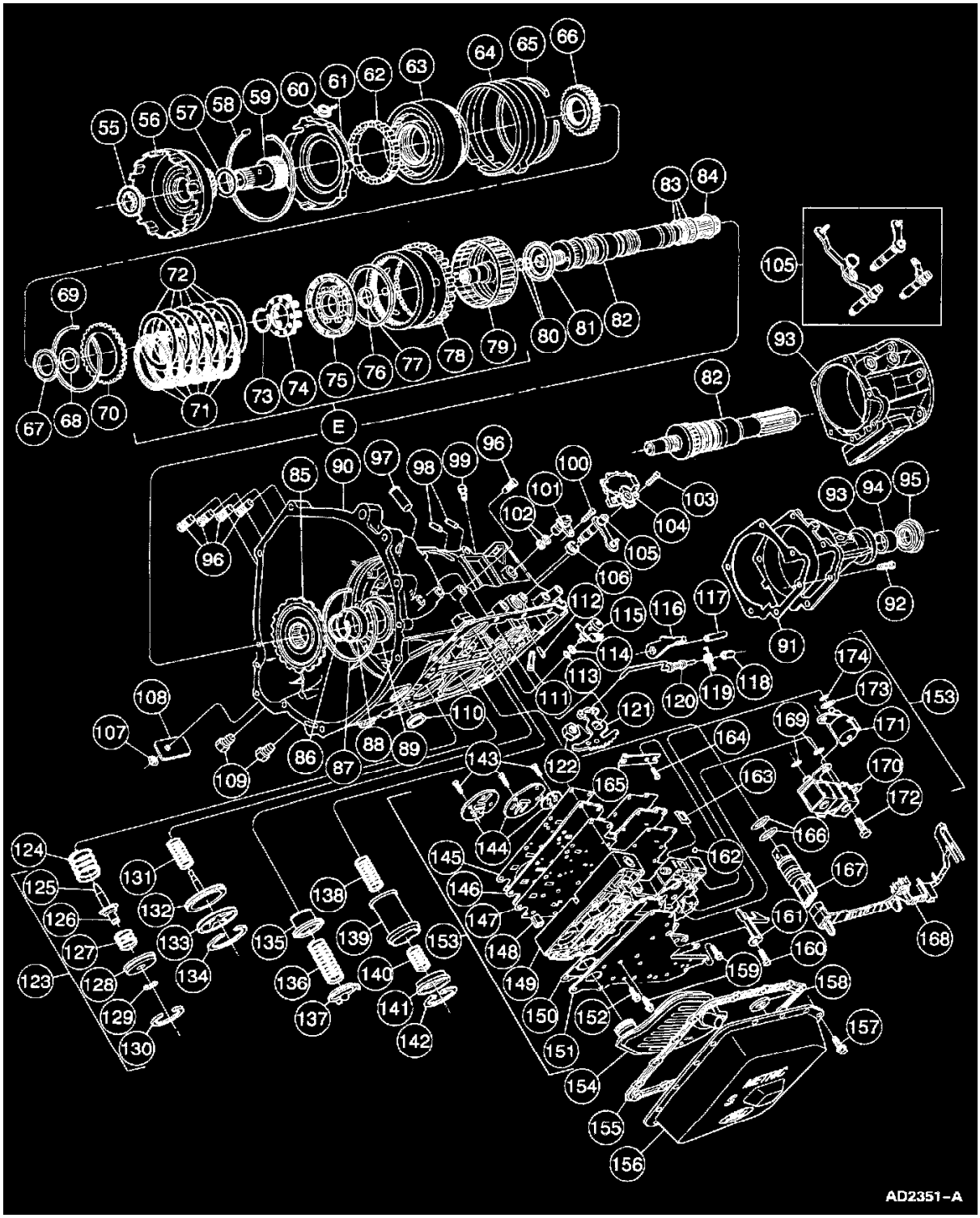

Electrical short inside the harness
1 = Solder coated wire to ground
2 = Harness protective tape
3 = Intermittent short
Solder coated wire pierced through the insulation of another circuit
4 = Grounding foil
1
2
3
4
3
VFV10009105


ELECTRICAL SHORT WITHIN THE HARNESS
Splice Covered
Harness Tape
Splice Tape
Wire Strand
Splice Tape Removed
Intermittent Short
Operate the system and flex the harness at splice location.


BROKEN WIRE STRANDS IN HARNESS
Wiring Harness Tape
Remove the tape and flex/feel each circuit for a reduction in diameter at break.
Circuit Insulation
Wiring Strand
Broken Strands Intermittent Signal

4R70W


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AD1374-A


AD2351-A

Item	Description
1	Converter Assy
2	Plug - Converter Drain - 1/8-27 Dryseal
3	Pump Assy — Front
4	Seal Assy — Front Pump
5	Seal — Front Pump
6	Bushing — Front Pump
7	Bolt - M8-1.25 x 35 Hex Head (7-Attached 7A103 to 7005)
8	Body Assy — Front Pump
9	Gasket — Front Pump
10	Gear — Pump Inner Gerotor
11	Gear — Pump Outer Gerotor
12	Support Assy — Front Pump
13	Bolt - M8-1.25 x 25 Hex Flg Head (5-Attach 7A108 to 7A103)
14	Washer — Front Pump Support Thrust — Select Fit No. 1
15	Seals — Reverse Clutch Cylinder (2 Req'd)
16	Seals — Forward Clutch Cylinder (2 Req'd)
17	Seal — Intermediate Clutch Piston — Inner
18	Seal — Intermediate Clutch Piston — Outer
19	Piston Kit — Intermediate Clutch
20	Plate — Intermediate Clutch External Spline (Select Fit) (Steel)
21	Plate Assy — Intermediate Clutch Internal Spline (Friction)
22	Plate — Intermediate Clutch Pressure
23	Band Assy — Overdrive
24	Ring —3-21/64 Retains Type SU External (Retains 7F262 to 7F215)
25	Clutch Assy —Intermediate One-Way Clutch
26	Drum Assy — Reverse Clutch

Item	Description
27	Seal — Reverse Clutch Piston — Outer
28	Piston Assy — Reverse Clutch
29	Seal Reverse Clutch Piston — Inner
30	Ring — Reverse Clutch Piston Pressure
31	Spring — Reverse Clutch Piston Return
32	Spring — Reverse Clutch Piston Spring
33	Plate — Reverse Clutch Front Pressure
34	Plate — Reverse Clutch Internal Spline (Friction)
35	Plate — Reverse Clutch External Spline (Steel)
36	Plate — Reverse Clutch Rear Pressure
37	Seals — Input Shaft (2 Req'd)
38	Retainer — Reverse Clutch Pressure Plate — (Select Fit)
39	Bearing and Race Assy — Forward Clutch No. 2
40	Cylinder and Input Shaft Assy — Forward Clutch
41	Seal — Forward Clutch Piston — Outer
42	Seal — Forward Clutch Piston — Inner
43	Piston — Forward Clutch
44	Spring — Forward Clutch Piston Return
45	Retainer Return Spring — Forward Clutch
46	Snap Ring — Retaining — 1-59/64 (Retains 7A529 in 7F207)
47	Spring — Rear Clutch Pressure Plate
48	Plate — Forward Clutch External Spline (Steel)
49	Plate — Forward Clutch Internal Spline (Friction)
50	Plate — Forward Clutch Pressure

Item	Description
51	Snap Ring — Retaining (Select Fit)
52	Bearing and Race Assy — Forward Clutch — Front No. 3
53	Hub — Forward Clutch
54	Shaft — Intermediate Stub
55	Bearing and Race Assy — Forward Clutch Hub No. 4
56	Gear Assy — Reverse Sun
57	Bearing and Race Assy — Forward Clutch Sun Gear No. 5
58	Retaining Ring —Center Support — 7-7/92
59	Gear Assy — Forward Clutch Sun
60	Spring — Case to Planet Support
61	Support Assy — Planetary Gear
62	OWC Cage Spring and Roller Assy — Planetary
63	Planetary Assembly
64	Band Assy — Reverse
65	Retaining Ring — 0.58 Thick (Locates Reverse Band During Assy)
66	Hub — Direct Clutch
67	Bearing and Race Assy — Direct Clutch Inner No. 7
68	Support — Direct Clutch Inner Bearing
69	Retaining Ring — Direct Clutch Pressure Plate (Select Fit)
70	Plate — Direct Clutch Pressure
71	Plate — Direct Clutch Internal Spline (Friction)
72	Plate — Direct Clutch External Spline (Steel)
73	Retainer Ring — 1-19/32 (Retains 7F235 to 7F283)
74	Retainer and Spring Assy — Direct Clutch
75	Piston Assy — Direct Clutch
76	Seal — Direct Clutch Piston — Inner

Item	Description
77	Seal — Direct Clutch Piston — Outer
78	Gear — Output Shaft Ring
79	Cylinder Assy — Direct Clutch
80	Seals — Output Shaft Small — Direct Clutch (2 Req'd)
81	Bearing and Race Assy — Direct Clutch Outer No. 8
82	Shaft Assy — Output
83	Seal — Output to Case Shaft Large (3 Req'd)
84	Seal — O-Ring (Piloted Output Shaft Only)
85	Hub — Output Shaft
86	Snap Ring — 1-13/16 Retaining (Retains 7D164 to 7060)
87	Snap Ring — Retaining (Retains 7D164 to 7A153)
88	Bushing — Rear Case
89	Bearing and Race Assy — Case Rear No. 9
90	Case Assy
91	Gasket — Extension
92	Bolt — M8-1.25 x 30 (6-Attach 7A039 to 7005)
93	Extension Assy
94	Bushing — Extension Housing
95	Seal Assy — Extension Housing
96	Pipe Plug — 1/8-27 Dryseal Tapered (5 Req'd)
97	Pin — Overdrive Band Anchor
98	Pin — Reverse Band Anchor
99	Vent Assy — Case
100	Bolt — M6-1.0 x 14 Hex Flg Head (Attaches Output Shaft Speed Sensor to Case)
101	Sensor Assy — Transmission Output Shaft Speed
102	Seal — 14.0 x 1.78 O-Ring (2 Req'd)
103	Bolt and Washer Assy — M6-1.0 x 25 MM (2-Attach 7F293 to 7005)

Item	Description
104	Sensor — Transmission Range
105	Lever Assy — Manual Control
106	Seal Assy — Manual Control Lever
107	Nut — 1/4 Spring (Retains Identification Tag to 7000)
108	Tag — Identification
109	Connector Assy — Fluid Tube (2 Req'd)
110	Plug — Converter Housing Access
111	Screen Assy — Fluid
112	Pin — Manual Lever Shaft Retainer
113	Seal — 0.426 x 0.070 O-Ring
114	Seal — 14.0 x 1.78 O-Ring
115	Solenoid Valve — Transmission Pressure Control
116	Pawl — Parking Pawl
117	Shaft — Parking Pawl
118	Cup — Park Rod Guide
119	Spring — Parking Pawl Return
120	Rod Assy — Park Pawl Actuating
121	Lever Assy — Manual Valve Detent Lever
122	Nut — M14 x 1.5 Hex — Intermediate Detent Lever (Attaches 7A115 to 7A256)
123	Piston Assy — Overdrive Servo
124	Spring — Overdrive Servo Piston
125	Rod — Overdrive Servo Actuating
126	Washer — Backup Overdrive Servo
127	Spring — Overdrive Cushion Spring
128	Piston Assy — Overdrive Servo
129	Ring — Retaining
130	Ring — 2.85 Retaining Type TVP "H" Internal (Retains 7H188 to 7005)

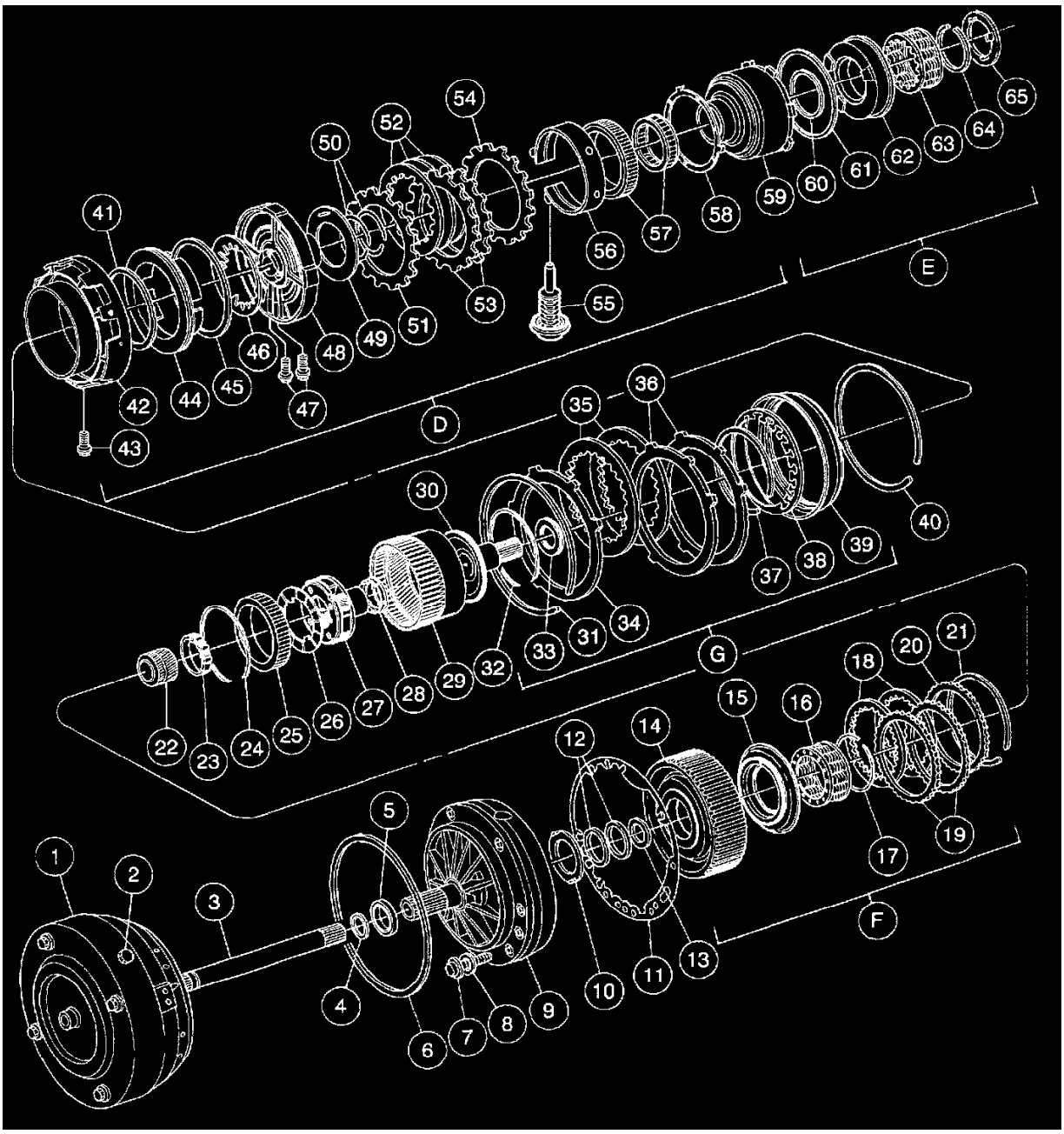
Item	Description
131	Spring — Reverse Band Servo Piston
132	Piston Assy — Reverse Band Servo
133	Cover Assy — Reverse Band Servo Piston
134	Retaining Ring — Internal — 3-13/16
135	Piston — 2-3 Accumulator (Bonded Seals)
136	Spring — 2-3 Shift Accumulator Piston
137	Retainer — 2-3 Shift Accumulator Spring
138	Spring — 1-2 Shift Accumulator (Model Dependent)
139	Piston — 1-2 Shift Accumulator (Bonded Seals)
140	Spring — 1-2 Shift Accumulator
141	Cover and Seal Assy — 1-2 Accumulator
142	Ring — 2-1/16 Retaining Type HU Internal (Retains 7H300 to 7005)
143	Bolt — M6-1.0 x 16 Hex Head (12-Attach Reinforcing Plate to Valve Body)
144	Plate — Valve Body Reinforcing
145	Gasket — Valve Body Separator — Upper
146	Plate — Control Valve Body Separator
147	Gasket — Valve Body Separator — Lower
148	Valve — Converter Drainback
149	Body Assy — Main Control
150	Gasket — Valve Body Cover Plate
1521	Plate — Valve Body Cover
152	Bolt — M6-1.0 x 18 Hex Head (11-Attach 7C034 to 7A100
153	Control Assy — Main
154	Filter and Seal Assy — Fluid

Item	Description
155	Gasket — Transmission Pan
156	Pan — Transmission
157	Bolt — M8-1.25 x 18 Hex Flg Head (14-Attach 7A194 to 7005)
158	Magnet — Ceramic Case (Part of 7A194)
159	Bolt — M8-1.25 x 46 Hex Shldr Pilot (2-Attach 7C034 to 7A100)
160	Bolt — M6-1.0 x 52 Hex Flg Head (12-Attach 7A100 to 7005)
161	Retainer — Solenoid
162	Ball — 1/4 Diameter Coast Booster Valve Shuttle (8 Req'd)
163	Screen — Solenoid Pressure Supply
164	Bolt — M6-1.0 x 4.0 Hex Flg Head (13-Attach 7A100 to 7005)
165	Spring Assy — Manual Valve Detent

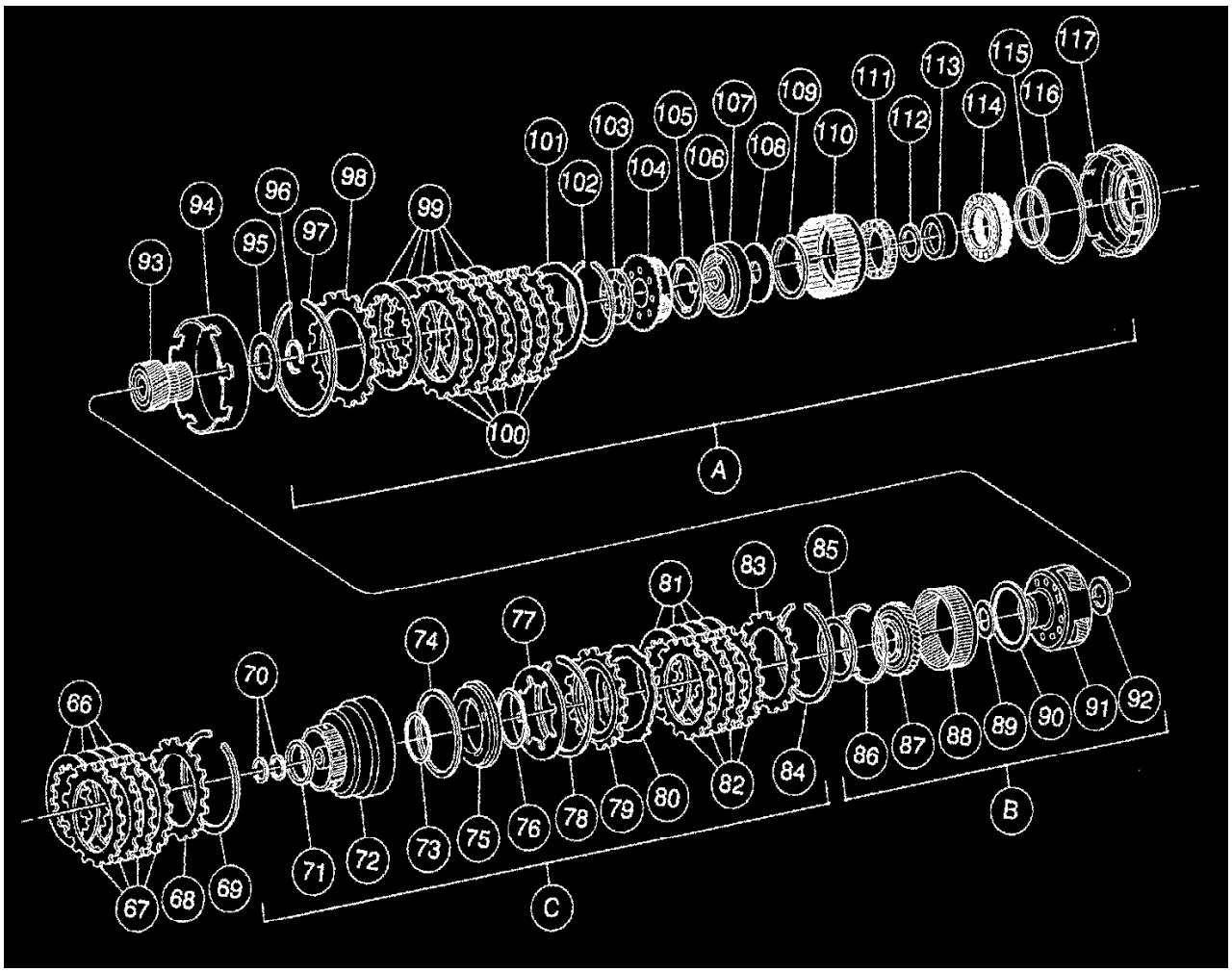
Item	Description
166	Seal — 0.864 x 0.070 O-Ring (2 Req'd)
167	Bulkhead Assy — Wiring Connector
168	Bulkhead Assy — Connector (Molded)
169	Seal — 6.07 x 1.70 O-Ring (2 Req'd)
170	Solenoid Valve — Transmission Shift
171	Solenoid Valve — Transmission Torque Converter Clutch
172	Bolt — M6-1.0 x 16 Hex Head (Retains 7D136 and 7G484 to 7A100)
173	Seal — 0.489 x 0.070 O-Ring
174	Seal — 0.176 x 0.070 O-Ring
A	Intermediate Clutch Assy
B	Intermediate One-Way Clutch
C	Reverse Clutch Assy
D	Forward Clutch Assy
E	Direct Clutch Assy

4R70W Automatic Transmission

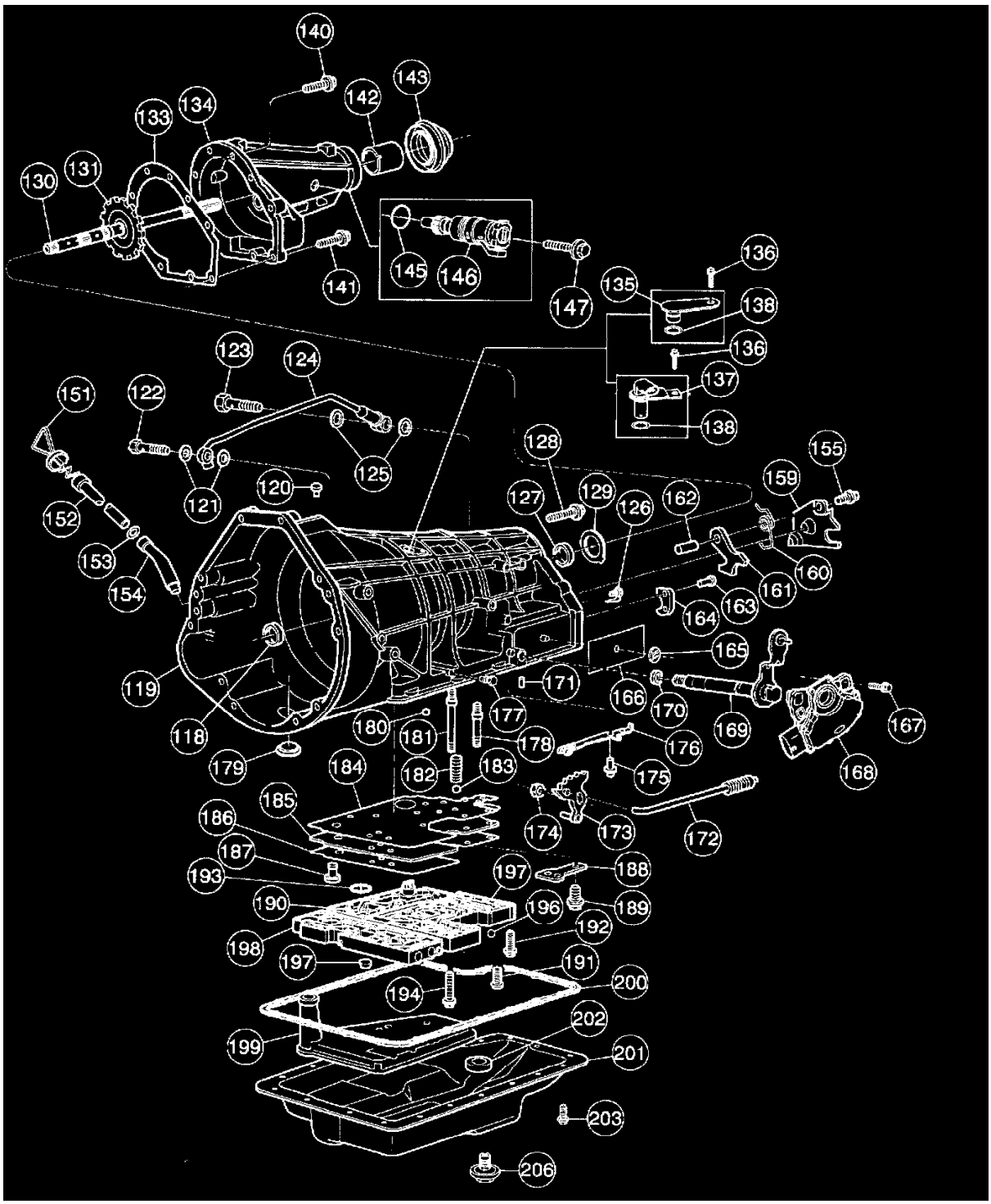
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Item	Description
1	Converter Assy (Vehicle-Dependent)
2	Plug — Converter Drain 1/18 in — 27 x .37
3	Shaft — Input
4	Seal — Front Pump Support
5	Seal — Front Pump
6	Seal — Front Pump Square Cut OD
7	Screw and Washer Assy — Front Pump to Case
8	Washer — Replacement (9 Req'd)
9	Pump Assy — Front (Vehicle-Dependent)
10	Washer — Front Pump Support Thrust #1
11	Gasket —Front Pump
12	Seal — Coast Clutch Ring — Teflon (2 Req'd)
13	Bearing Assy — Overdrive Sun Gear #2
14	Cylinder Assy — Coast Clutch (Vehicle-Dependent)
15	Piston and Seal Assy — Coast Clutch (Vehicle-Dependent)
16	Spring — Coast Clutch Piston Disc (Vehicle-Dependent)
17	Ring — Coast Clutch Spring Retainer (Vehicle-Dependent)
18	Plate — Coast Clutch Internal Spline — Friction
19	Plate — Coast Clutch External Spline — Steel
20	Plate — Coast Clutch Pressure
21	Ring — Coast Clutch Press Plate Retaining (Sel Fit) (Vehicle-Dependent)
22	Gear Assy — Overdrive Sun
23	Clutch Assy — Overdrive One-Way
24	Ring — Retaining Flat (Outer Race to Overdrive Ring Gear)
25	Race — Overdrive One-Way Clutch — Outer
26	Washer — Overdrive — One-Way Clutch #3
27	Planet Assy — Overdrive

Item	Description
28	Bearing Assy — Thrust #4
29	Gear — Overdrive Ring
30	Shaft — Overdrive Center
31	Ring — Overdrive Retaining (Sel Fit)
32	Ring — Wavy Retaining (Center Shaft to Overdrive Ring Gear)
33	Bearing Assy — Center Shaft #5
34	Plate — Overdrive Clutch Pressure
35	Plate — Overdrive Clutch Internal Spline — Friction (Vehicle-Dependent)
36	Plate — Overdrive Clutch External Spline — Steel
37	Ring — Overdrive Clutch Disc Spring Retaining
38	Spring — Overdrive Clutch Piston Disc
39	Piston and Seal Assy — Overdrive Clutch (Bonded)
40	Ring — Intermediate Cylinder Retaining
41	Seal — Intermediate Clutch Piston (Inner)
42	Cylinder — Intermediate and Overdrive Clutch
43	Bolt — M10-1.5 x 24 mm Overdrive Cylinder Fluid Feed
44	Piston — Intermediate Clutch
45	Seal — Intermediate Clutch Piston — Outer
46	Spring — Intermediate Clutch Piston Disc
47	Bolt — M12-1.75 x 31 mm Center Support Fluid Feed (2 Req'd)
48	Support Assy — Center
49	Washer — Center Support Thrust #6
50	Seal — Direct Clutch Cast Iron (2 Req'd)
51	Plate — Intermediate Clutch Apply
52	Plate — Intermediate Clutch Internal Spline

Item	Description
53	Plate — Intermediate Clutch External Spline
54	Plate — Intermediate Clutch Pressure
55	Servo Assy — Intermediate Brake Band
56	Band Assy — Intermediate
57	Clutch Assy — Intermediate One-Way
58	Washer — Interm One-Way Clutch — Thrust #7
59	Drum Assy — Intermediate Brake
60	Seal — Direct Clutch Inner
61	Seal — Direct Clutch Outer
62	Piston Assy — Direct Clutch
63	Retainer and Spring Assy — Direct Clutch
64	Ring — Direct Clutch Support Spring Retaining
65	Washer — Intermediate Brake Drum Thrust #8A
66	Plate — Direct Clutch Internal Spline — Friction
67	Plate — Direct Clutch External Spline — Steel
68	Plate — Direct Clutch Pressure
69	Ring — Direct Clutch Pressure Plate Retaining (Selective Fit)
69	Ring — Retaining
69	Ring — Direct Clutch Pressure Plate Retaining (Selective Fit)
69	Ring — Direct Clutch Pressure Plate Retaining (Selective Fit)
70	Seal — Forward Clutch Cylinder (2 Req'd)
71	Bearing Assy — Forward Clutch Cylinder Thrust #8B
72	Cylinder Assy — Forward Clutch
73	Seal — Forward Clutch Piston — Inner
74	Seal — Forward Clutch Piston — Outer
75	Piston Assy — Forward Clutch
76	Ring — Piston Apply
77	Spring — Piston Return

Item	Description
78	Ring — Retaining Forward Clutch Spring (FWD CL Piston Spring to FWD CL Cylinder Assy)
79	Plate — Forward Clutch Pressure
80	Spring — Forward Clutch Wave
81	Plate — Forward Clutch Internal Spline — Friction
82	Plate — Forward Clutch External Spline — Steel
83	Plate — Forward Clutch Pressure Rear
84	Ring — Forward Clutch Pressure Plate Retaining (Selective Fit)
84	Ring — Retaining
84	Ring — Retaining
84	Ring — Retaining
84	Ring — Retaining
85	Washer — Forward Clutch Hub — Thrust No. 8C
86	Ring — Forward Hub Retaining (FWD Ring Gear Hub to FWD Ring Gear)
87	Hub — Forward Ring Gear
88	Gear — Forward Ring
89	Bearing Assy — Forward Clutch Thrust (Between FWD Ring Gear and FWD Planet Assy) No. 9A
90	Bearing Assy — Forward Planet Carrier — Thrust No. 10A
91	Planet Assy — Forward
92	Bearing Assy — Forward Clutch Thrust (Between FWD Planet Assy and FWD Sun Gear Assy) No. 9B
93	Gear Assy — Forward/Reverse Sun
94	Shell — Input
955	Washer — Input Shell Thrust No. 14
96	Ring — Retaining (Attaches FWD/REV Sun Gear Assy to Input Shell)
97	Ring — Reverse Clutch Pressure Plate — Retaining

Item	Description
98	Plate — Reverse Clutch Pressure
99	Plate — Reverse Clutch Internal Spline — Friction
100	Plate — Reverse Clutch External Spline — Steel
101	Spring — Trans Reverse Clutch Cushion
102	Ring — Reverse Planet Retaining
103	Washer — Planet Carrier Thrust (Between Reverse Planet Assy and Input Shell) No. 10B
104	Planet Assy — Reverse
105	Washer — Planet Carrier — Thrust (Between Reverse Planet Assy and Output Shaft Hub) No. 11
106	Ring — Retaining (Retaining Output Shaft Hub to Output Shaft Assy)
107	Gear — Output Shaft Ring
108	Hub — Output Shaft[a]
109	Ring — Retaining (Retaining Output Shaft Hub to Output Shaft Ring Gear)
100	Hub Assy — Reverse Clutch
111	Clutch Assy — Reverse One-Way
112	Low/Reverse One-Way Clutch Inner Race Thrust Bearing Assy No. 12
113	Race-Low Reverse One Way Inner
114	Retainer and Spring Assy — Reverse Clutch
115	Seal — Reverse Clutch Piston — Inner
116	Seal — Reverse Clutch Piston — Outer
117	Piston — Reverse Clutch
118	Bushing — Case — Front (3 Lube Grooves)
119	Case Assy
120	Vent Assy — Case
121	Sealing Washers — Case Outlet
122	Cooler Line — Case Fitting (Vehicle-Dependent)

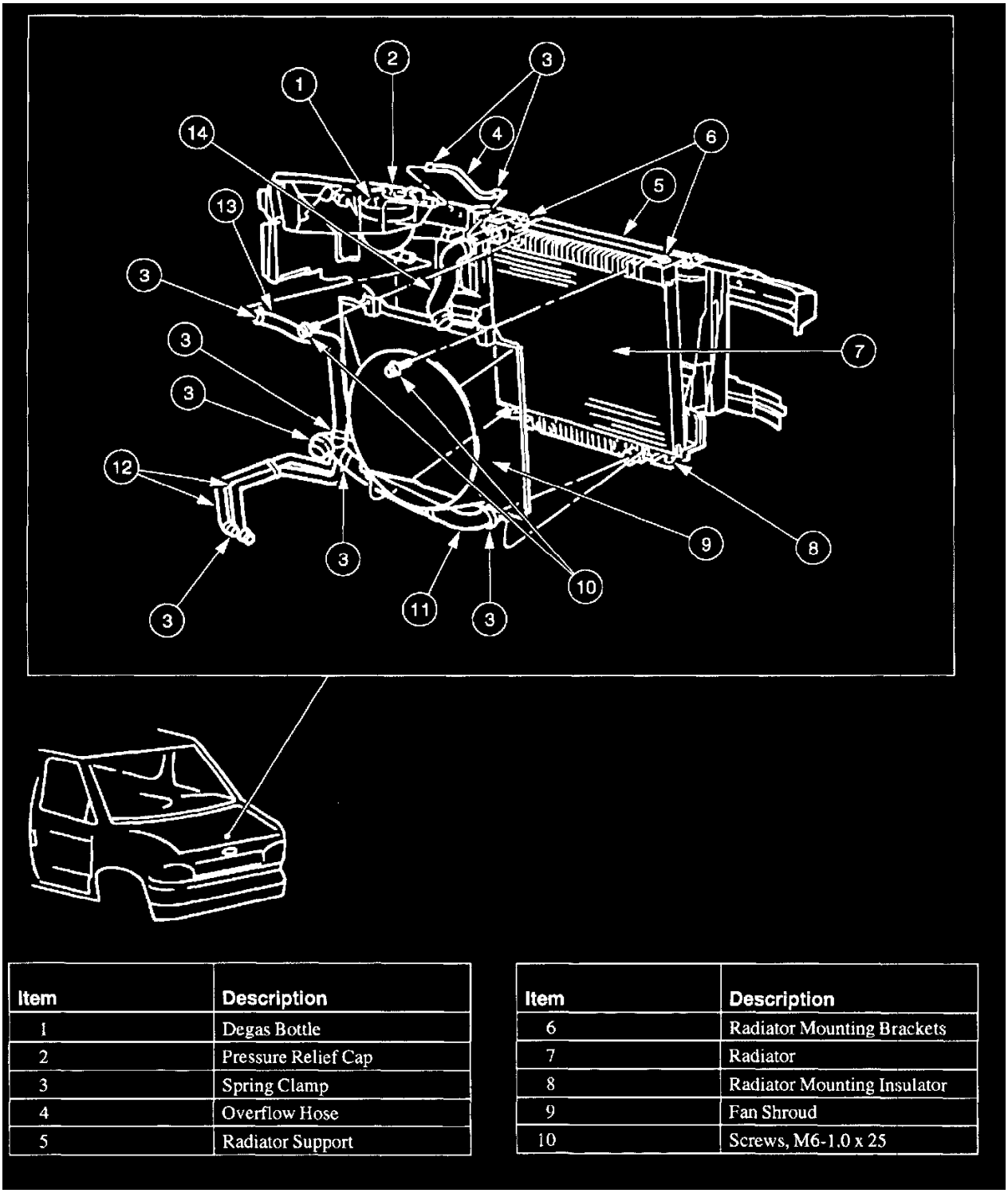
Item	Description
123	Cooler Line — Case Fitting (Vehicle-Dependent)
124	Valve Assy — Trans Cooler Bypass [b]
125	Sealing Washers — Case Outlet (Vehicle-Dependent) (2 Req'd)
126	Plug — Case Fluid Filler
127	Bushing — Case — Rear (1 Lube Groove)
128	Bolt, 5/16 x 1.9 (One-Way Clutch to Case) (5 Req'd)
129	Washer — Parking Gear Thrust — Rear No. 13
130	Output Shaft Assy (4x2)
131	Gear — Output Shaft — Parking
133	Gasket — Extension Housing
134	Extension Housing
135	Plug Assy — Case (Vehicle-Dependent)
136	Bolt — M6 — 1 x10 Hex Flange
137	Sensor — Output Shaft Speed (OSS)
138	O-Ring — Sensor
140	Bolt — Extension Assy to Case (Top) (7 Req'd)
141	Bolt — Extension Housing to Case (Bottom) (2 Req'd)
142	Bushing — Extension Housing (4x2)
143	Seal — Extension Housing (4 x 2)
145	Seal - o-ring .074x.073
146	Vehicle speed sensor (VSS)
147	Screw and washer assembly
150	Bolt — Ext Assy to Case (Super Duty & 4x4 Bottom) (2 Req'd)
151	Indicator Assy — Fluid Level
152	Tube Assy — Fluid Filler
153	O-Ring — Filler Tube
154	Tube Fluid Inlet — Short
155	Screw and Washer Assy M8-1.25 x 23.8 (Attaches 7D419 to 7005)
159	Plate — Parking Rod Guide
160	Spring — Parking Pawl Return

Item	Description
161	Pawl — Parking
162	Shaft — Park Pawl
163	Bolt — M8-1.25 x 25.9 mm (Attaches Park Pawl Act Abutment to Case)
164	Abutment — Parking Pawl Actuating
165	Nut — 3/8 Spring (Attaches Service ID Tag to Case)
166	Tag — Transmission Service ID [c]
167	Bolt Assy — Transmission Range Sensor to Case (2 Req'd)
168	Sensor Assembly — Transmission Range (TR)
169	Lever Assy — Manual Control
170	Seal — Manual Control Lever
171	Pin — Manual Lever Retaining
172	Rod Assy — Parking Pawl Actuating
173	Lever — Manual Control Valve Detent — Inner
174	Nut M14-1.5 Hex Inner Detent Lever (7A115 to 7A256)
175	Bolt — Manual Valve Detent Spring Assy to Case
176	Spring Assy — Manual Valve Detent
177	Plug — Test Port — 1/8-27 Hex-Head [c]
178	Stud — Valve Body Assy to Case — Solenoid Valve Body to Case — Accumulator Body Assy to Case
179	Plug — Converter Access
180	Ball — Rubber Check (8 Req'd)
181	Stud — Main Control Assy to Case
182	Spring — EPC Blow-Off
183	Ball — EPC Blow-Off
184	Gasket — Valve Body Separator Plate
185	Plate — Valve Body Separator
186	Gasket — Valve Body Separator Plate to Case

Item	Description
187	Screen Assy — Solenoid
188	Plate — Valve Body Reinforcing [c]
189	Bolt — Valve Body Reinforcing Plate to Case (3 Req'd)
190	Solenoid Valve Body — Transmission Control
191	Bolt — Solenoid Valve Body to Case (9 Req'd)
192	Bolt — Valve Body Assy to Case and Accumulator Body Assy to Case (18 Req'd)
193	O-ring — seal solenoid body
194	Bolt — Valve Body Assy to Case
195	Valve Body Assy
196	Ball — Rubber check (green 2 req'd)
197	Nut — Valve Body Assy to Case — Solenoid Valve Body to Case — Accumulator Body Assy to Case
198	Control Assy — Accumulator Body
199	Screen and Seal Assy — Transmission
200	Reusable Gasket — Transmission Pan
201	Pan Assy — Transmission
202	Magnet — Transmission Pan [c]
203	Bolt — Pan Assy to Case (20 Req'd)
206	Fluid drain plug
A	Reverse Clutch and Planetary
B	Forward Planetary Assembly
C	Forward Clutch Assembly
D	Intermediate Clutch Assembly
E	Direct Clutch Assembly
F	Coast Clutch Assembly (Vehicle-Dependent)
G	Overdrive Clutch Assembly

b Vehicle-Dependent.
c Not available separately.

Transmission, Disassembled View



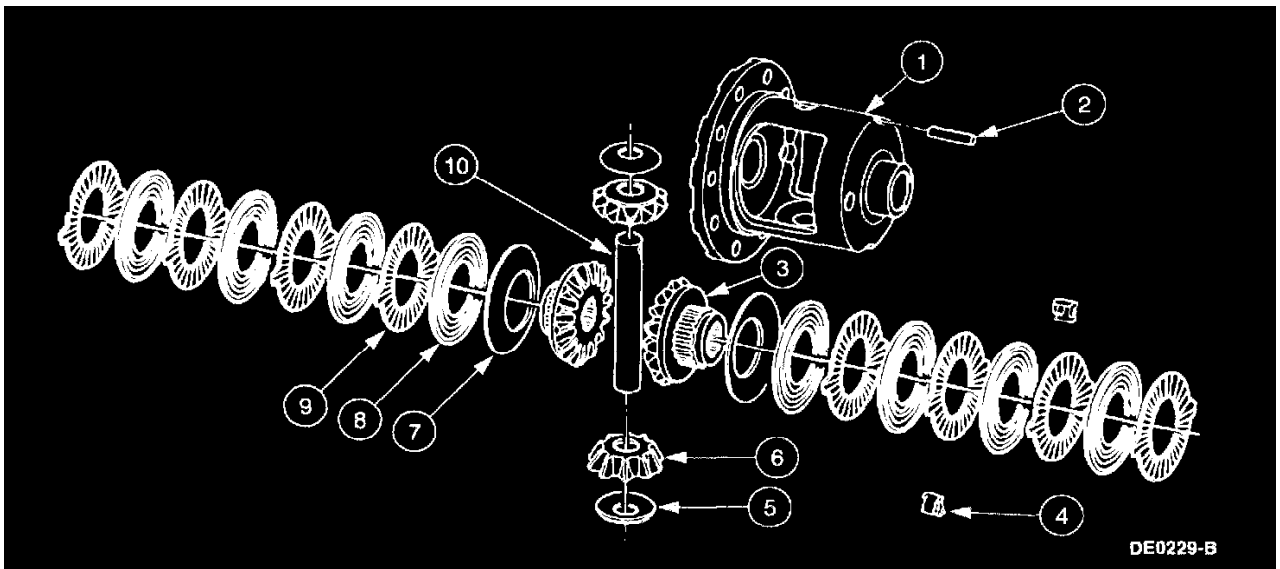
Item	Description
1	Degas Bottle
2	Pressure Relief Cap
3	Spring Clamp
4	Overflow Hose
5	Radiator Support

Item	Description
6	Radiator Mounting Brackets
7	Radiator
8	Radiator Mounting Insulator
9	Fan Shroud
10	Screws, M6-1.0 x 25

Item	Description
11	Lower Radiator Hose
12	Oil Cooler Supply Hoses (5.4L and 6.8L Only)

Item	Description
13	Coolant Supply Hose
14	Upper Radiator Hose

Differential Assembly



Item	Description
1	Differential case
2	Differential pinion shaft lock pin
3	Differential side gear
4	Retainer clip

Item	Description
5	Differential pinion thrust washer
6	Differential pinion gear
7	Plate preload spacer

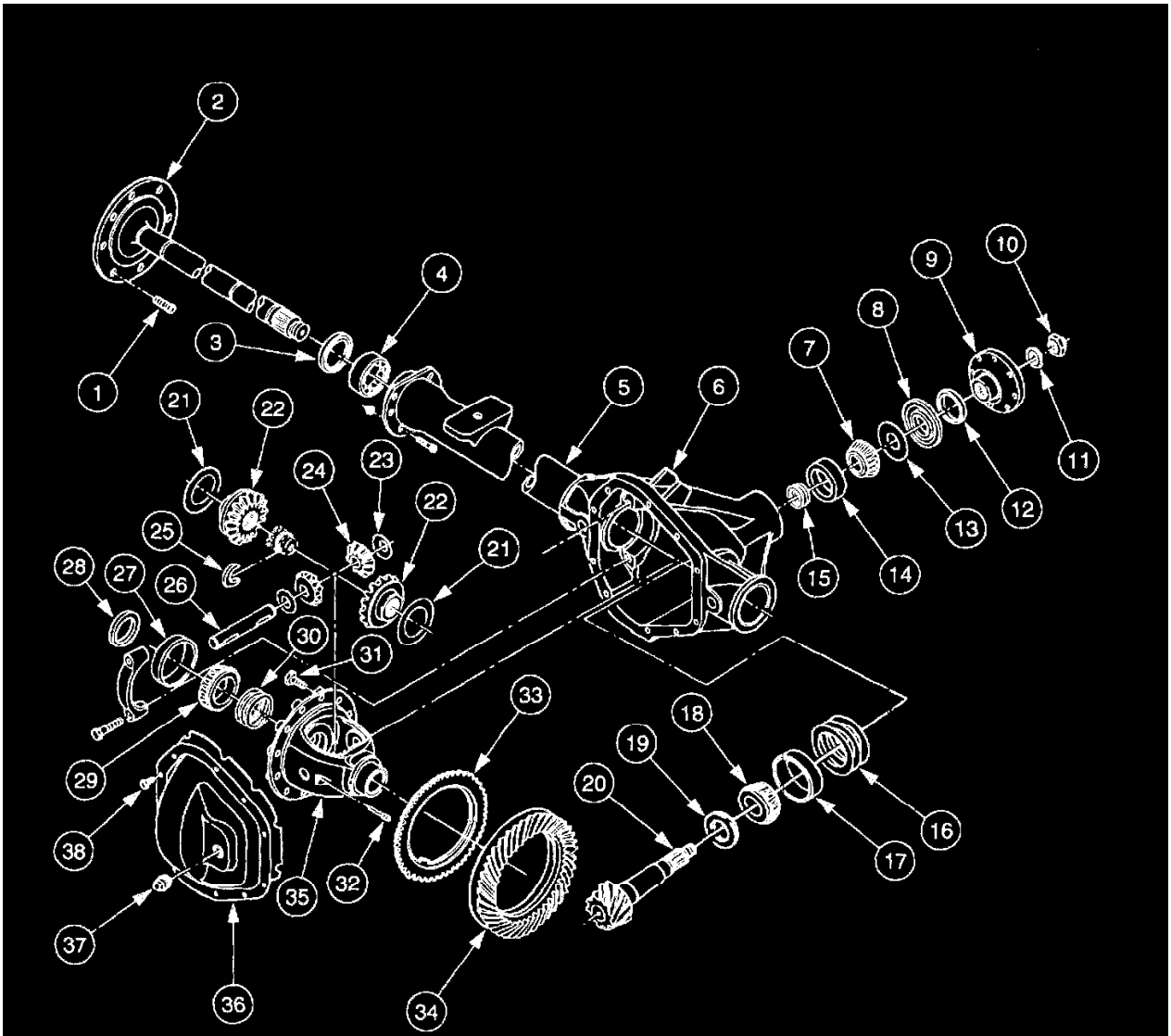
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Item	Description
8	Clutch disc

Item	Description
9	Clutch plate
10	Differential pinion shaft

Two-Pinion Limited Slip Differential-Model 60-1U Trac-Lok(R)

Dana



Item	Description
1	Wheel bolt
2	Axle shaft
3	Wheel bearing oil seal
4	Rear wheel bearing
5	Rear axle housing
6	Speed sensor (location)
7	Pinion bearing — (outer)

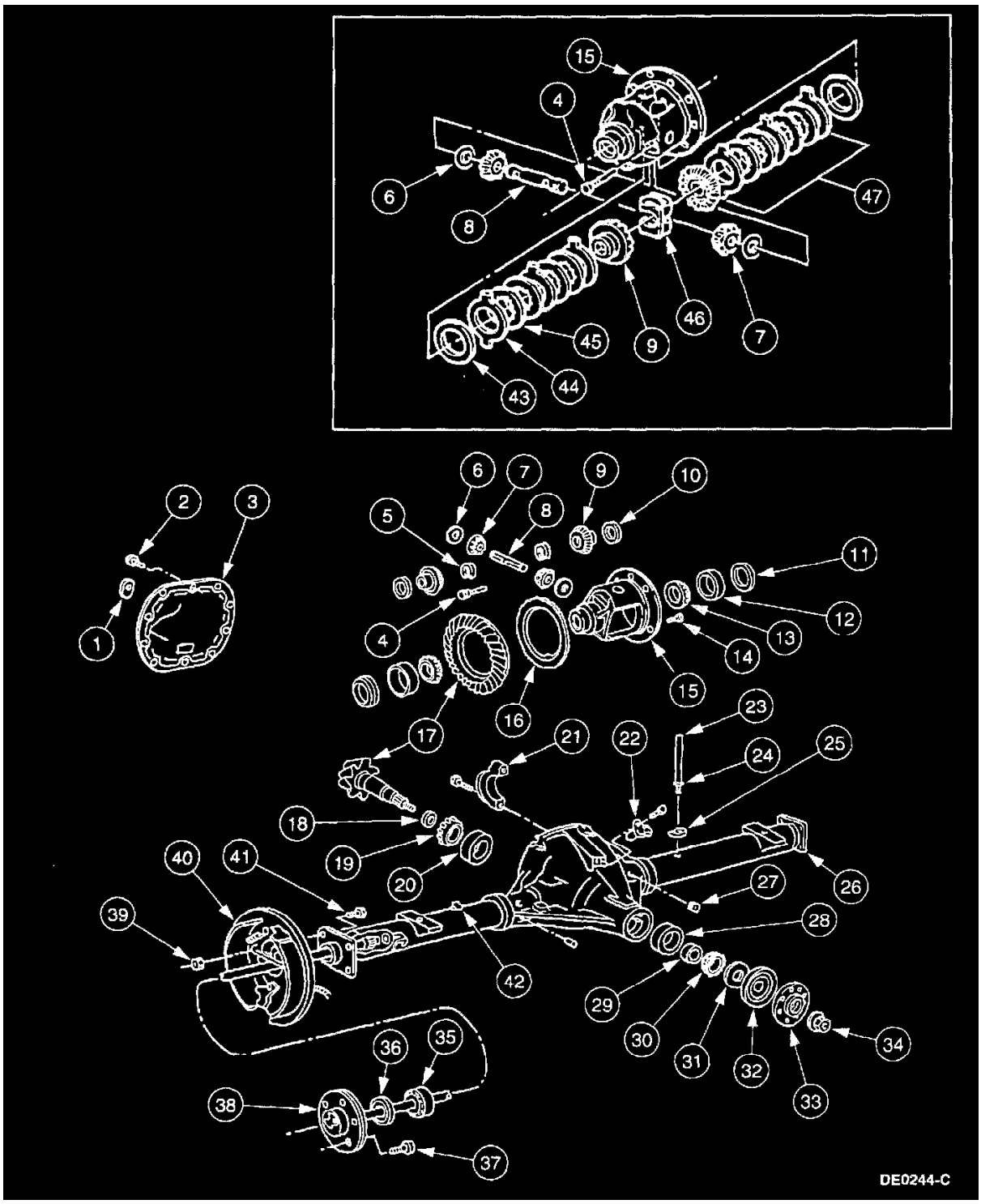
Item	Description
8	Pinion seal
9	Rear axle pinion flange
10	Pinion nut
11	Pinion nut washer
12	Dust shield
13	Oil slinger
14	Pinion bearing cup — (outer)

Item	Description
15	Drive pinion bearing adjustment shims
16	Drive pinion shim
17	Pinion bearing cup — (inner)
18	Pinion bearing — (inner)
19	Selective shim
20	Drive pinion (matched set)
21	Differential side gear thrust washer
22	Differential side gear
23	Differential pinion thrust washer
24	Differential pinion gear
25	U-washer

Item	Description
26	Differential pinion shaft
27	Differential bearing cup
28	Outboard spacer
29	Differential bearing
30	Differential bearing shim
31	Ring gear bolt
32	Differential pinion shaft lock pin or bolt
33	Anti-lock speed sensor ring
34	Ring gear (matched set)
35	Differential case
36	Differential housing cover
37	Filler plug
38	Bolt — cover

Rear Axle-Semi-Floating, Model 60-1U, Conventional and Limited Slip Differentials

Ford - 8.8 Inch Ring Gear


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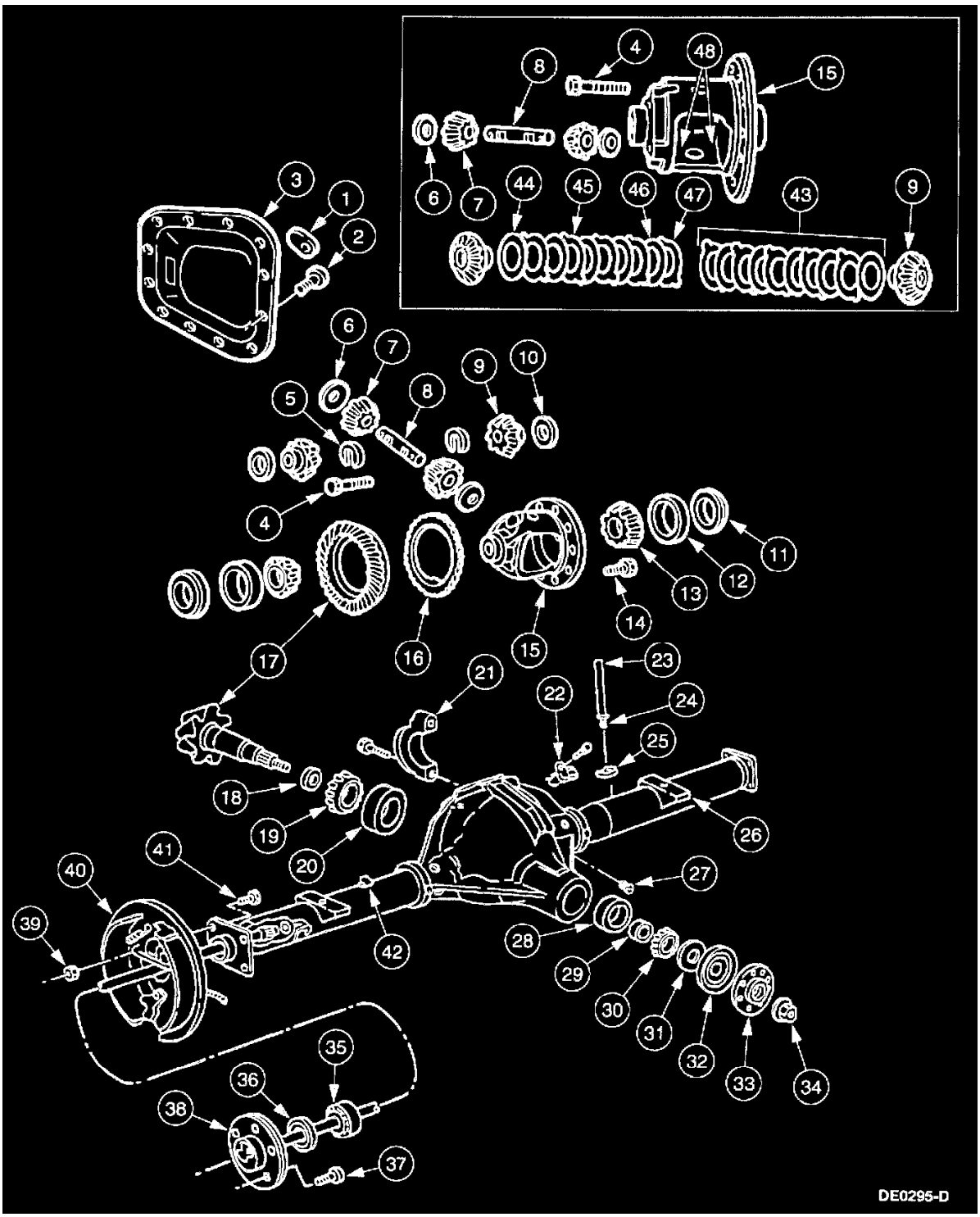
Item	Description
1	Rear axle identification tag
2	Differential housing cover bolt
3	Differential housing cover
4	Differential pinion shaft lock bolt
5	U-washer
6	Differential pinion thrust washer
7	Differential pinion gear
8	Differential pinion shaft
9	Differential side gear
10	Differential side gear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

Item	Description
23	Venthose
24	Rear axle housing vent
25	Brake junction block
26	Rear axle housing
27	Filler plug
28	Pinion bearing cup— (outer)
29	Drive pinion collapsible spacer
30	Pinion bearing— (outer)
31	Rear axle drive pinion shaft oil slinger
32	Rear axle drive pinion seal
33	Pinion flange
34	Pinion nut
35	Rear wheel bearing
36	Inner wheel bearing oil seal
37	Wheel bolt
38	Axle shaft
39	Brake assy
40	Brake backing plate nut
41	Brake backing plate bolt
42	Retainer clip
43	Rear axle differential clutch shim
44	Steel plate
45	Clutch disc
46	Differential clutch spring
47	Differential clutch pack

2 Of 2

Rear Drive Axle and Differential

Ford - 9.75 Inch Ring Gear

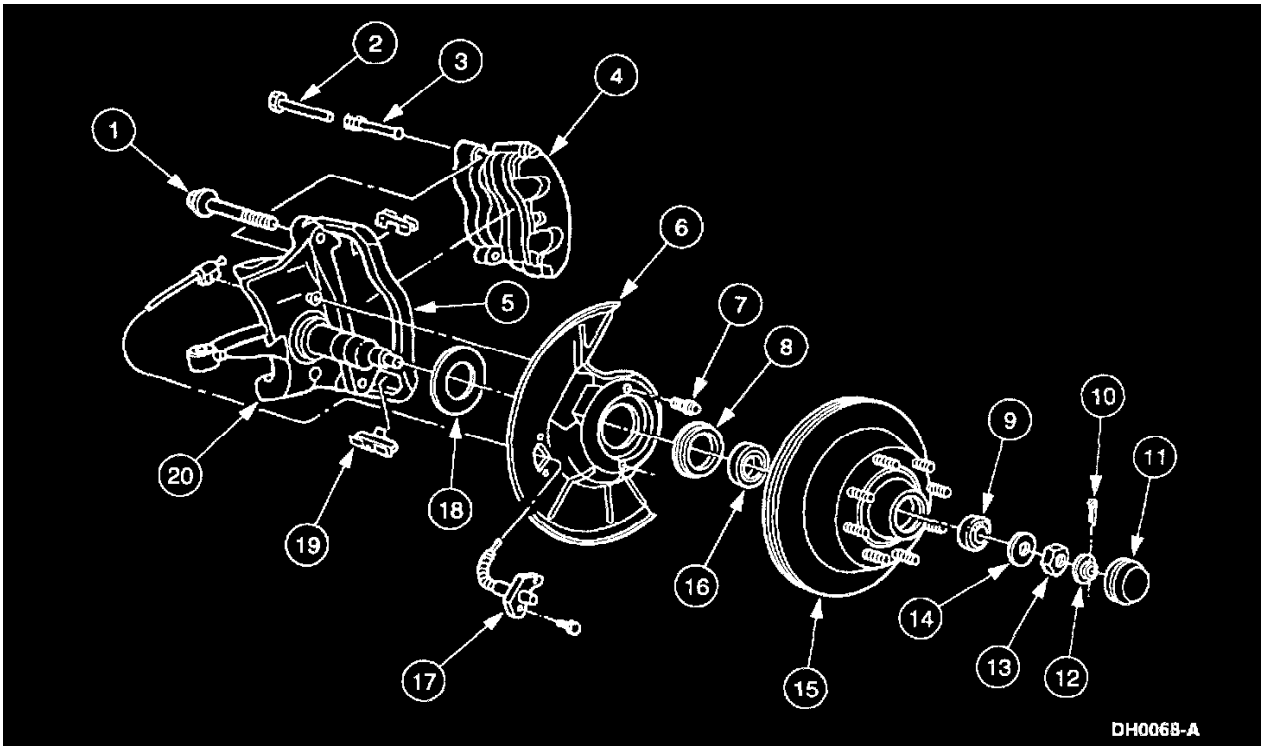


1 Of 2

Item	Description
1	Rear axle identification tag
2	Differential housing cover bolt
3	Differential housing cover
4	Differential pinion shaft lock bolt
5	U-washer
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	Pinion bearing— (inner)
20	Inner axle pinion bearing cup
21	Bearing cap and bolt
22	RABS sensor
23	Venthose

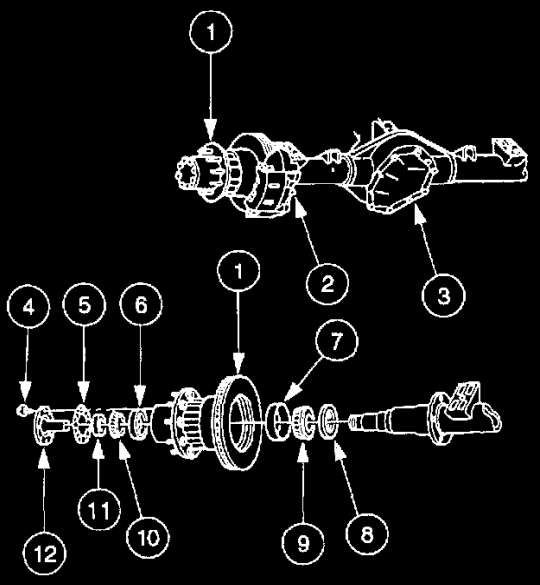
Item	Description
24	Rear axle housing vent
25	Brake junction block
26	Rear axle housing
27	Filler plug
28	Outer pinion bearing cup
29	Collapsible spacer
30	Pinion bearing— (outer)
31	Rear axle drive pinion shaft oil slinger
32	Rear axle drive pinion seal
33	Pinion flange
34	Pinion nut
35	Rear wheel bearing
36	Inner wheel bearing oil seal
37	Wheel stud
38	Axle shaft
39	Brake backing plate nut
40	Brake assy
41	Brake backing plate bolt
42	Retainer clip
43	Differential clutch pack
44	Steel plate
45	Friction plate
46	Shim
47	Belleville spring
48	Thrust face of the differential case

Rear Axle-9.75-Inch Ring Gear



Item	Description
1	Anchor bracket-to-spindle bolt
2	Disc brake caliper bolt
3	Caliper bolt sleeve
4	Disc brake caliper
5	Front disc brake caliper anchor plate
6	Brake disc shield
7	Brake disc shield-to-spindle screw
8	Wheel hub grease seal
9	Front wheel bearing
10	Cotter pin

Item	Description
11	Hub grease cap
12	Nut retainer
13	Spindle nut
14	Front wheel outer bearing retainer washer
15	Brake disc and hub
16	Bearing cone and roller
17	Front brake anti-lock sensor
18	Front brake splash shield gasket
19	Disc brake pad anti-rattle clip
20	Front wheel spindle

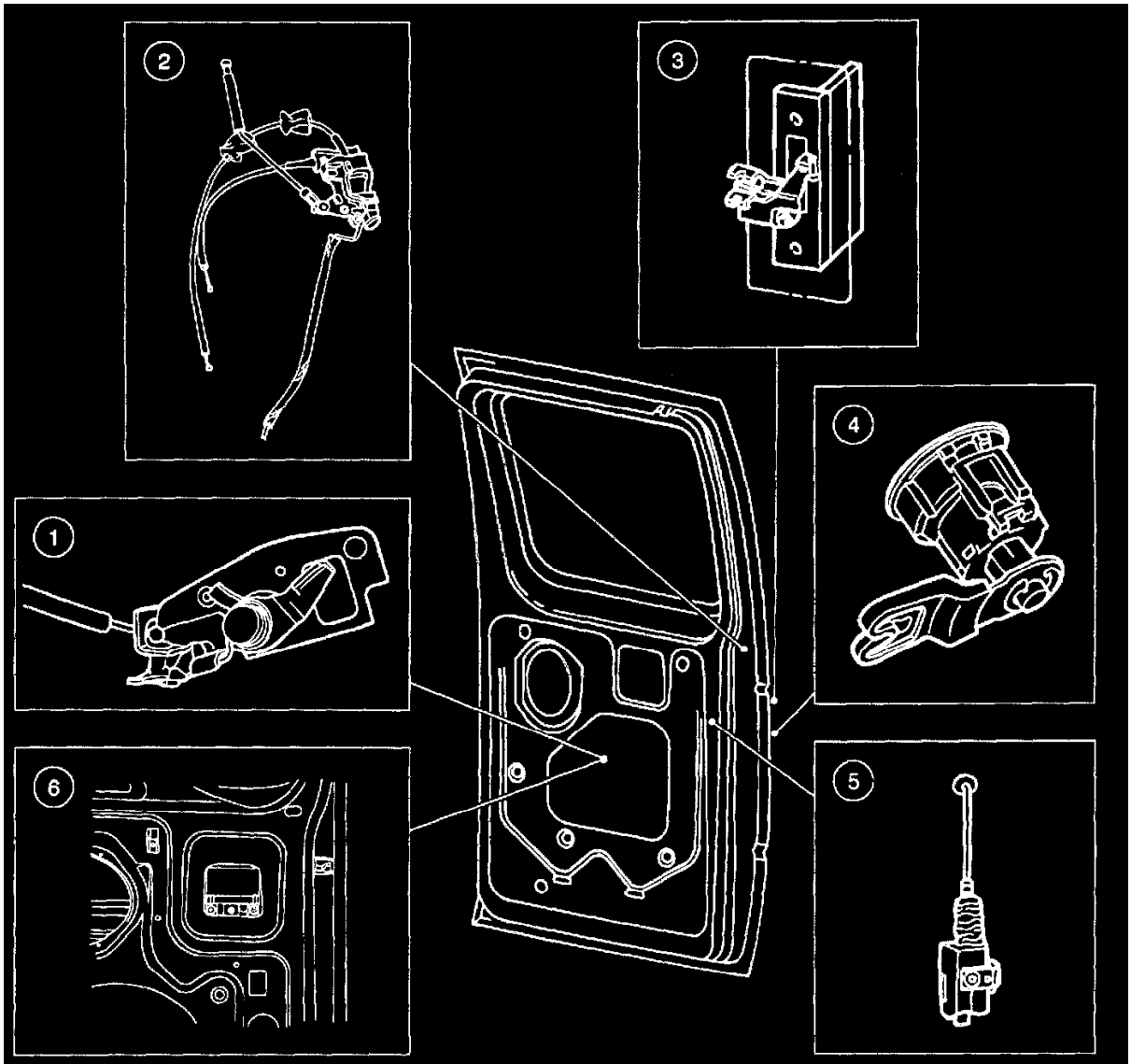


Item	Description
1	Rear brake disc and hub assy
2	Rear disc brake caliper
3	Dana full-floating axle — Model 80
4	Axle shaft-to-rear hub bolt
5	Rear wheel gasket
6	Outer bearing cup
7	Inner bearing cup
8	Inner hub seal
9	Rear wheel bearing inner cone and roller
10	Rear wheel bearing outer cone and roller

Part 1 Of 2

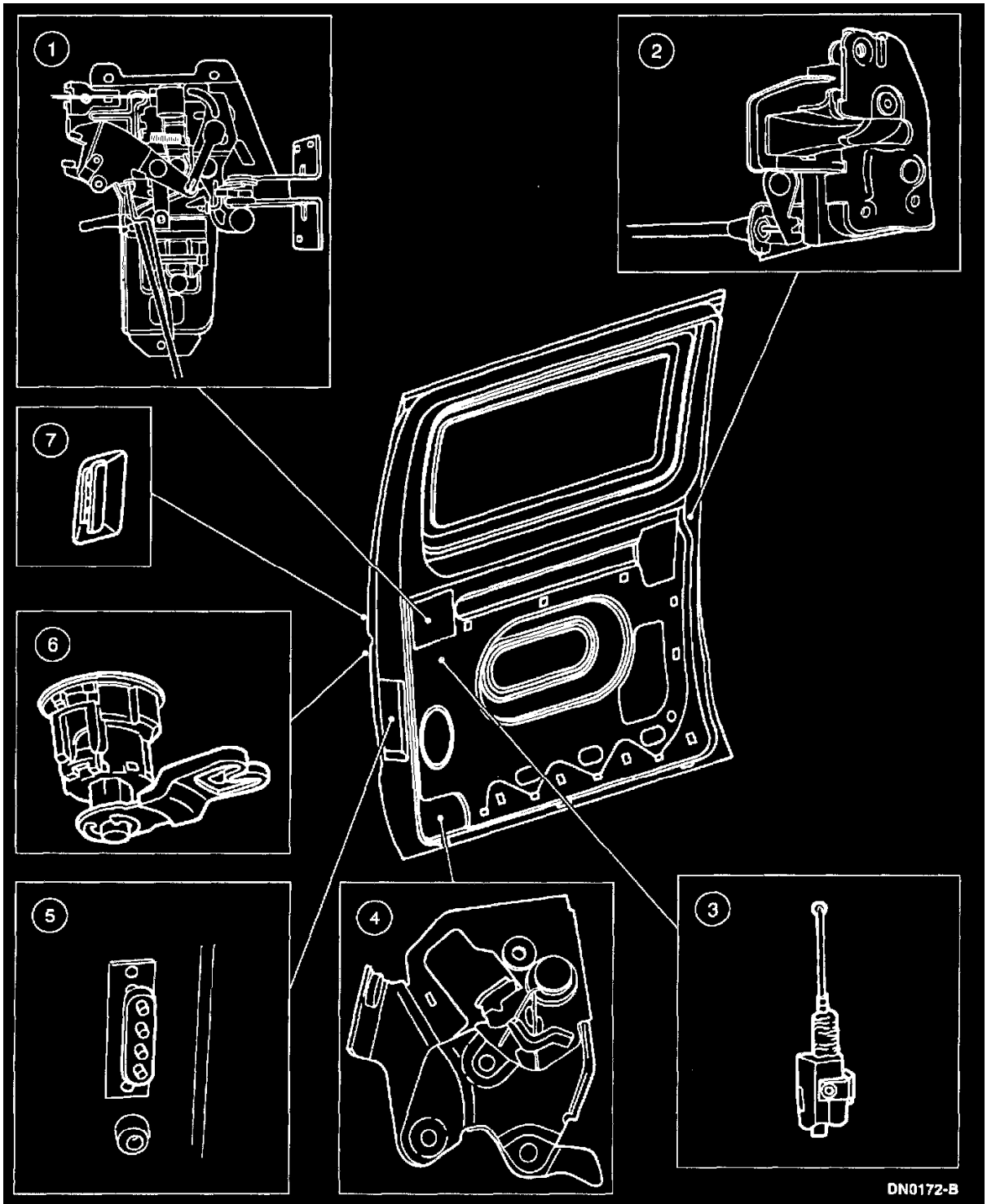
Item	Description
11	Wheel bearing lock nut
12	Axle shaft

Part 2 Of 2



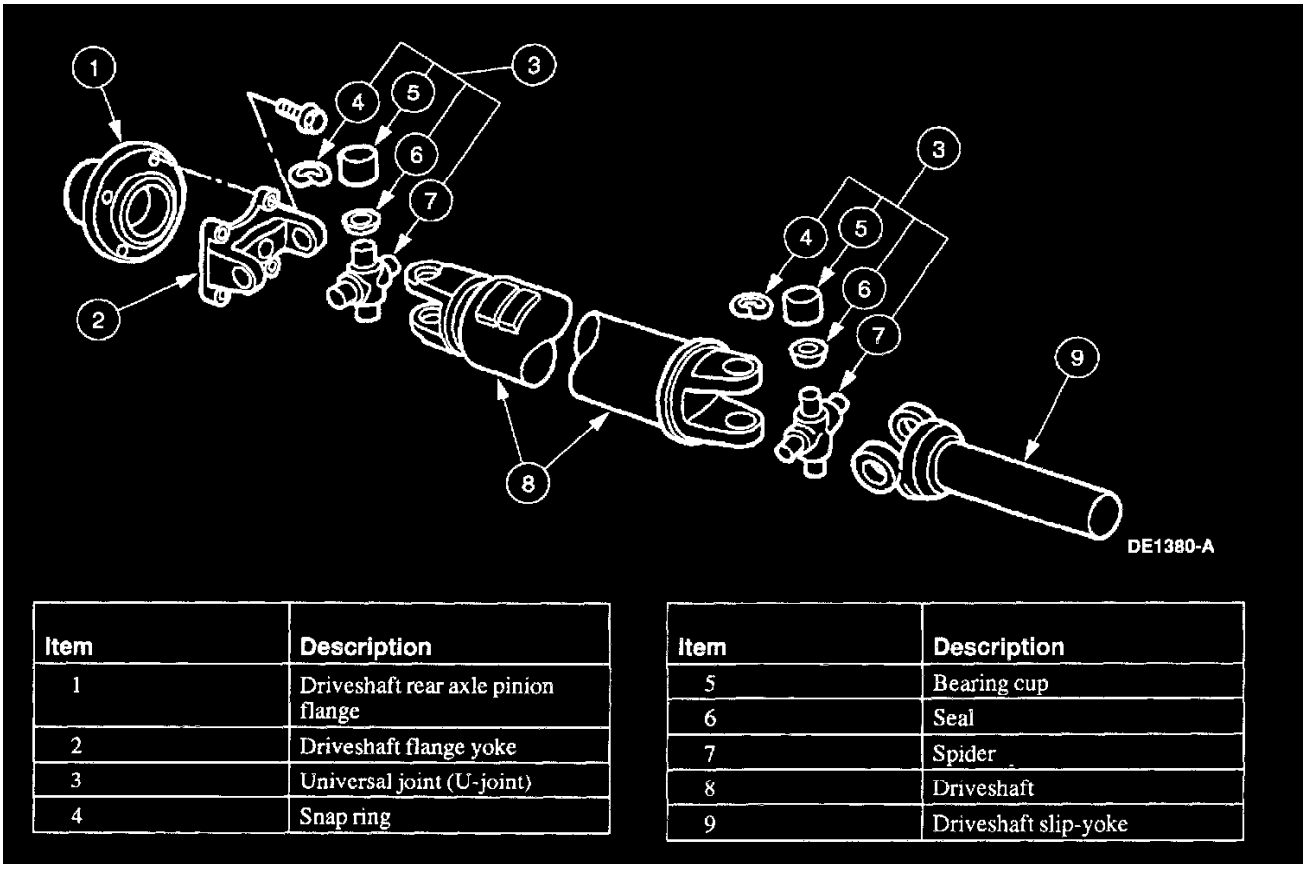
Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle



Item	Description
1	Latch Remote Control and Front Latch Assy
2	Rear Door Latch
3	Power Door Lock Actuator

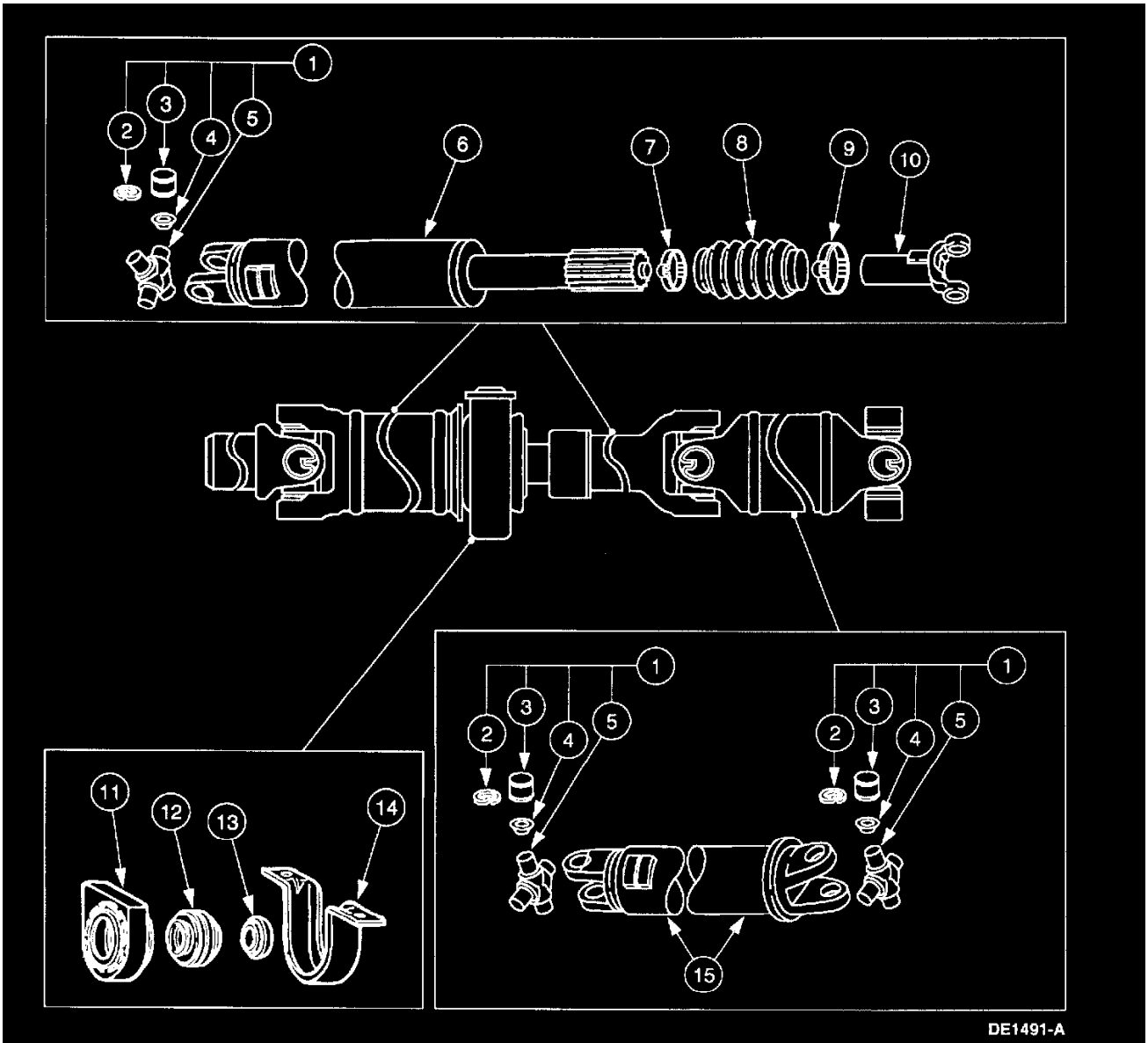
Item	Description
4	Lower Door Latch
5	Sliding Door Contact Buttons
6	Lock Cylinder
7	Outside Door Handle



Item	Description
1	Driveshaft rear axle pinion flange
2	Driveshaft flange yoke
3	Universal joint (U-joint)
4	Snap ring

Item	Description
5	Bearing cup
6	Seal
7	Spider
8	Driveshaft
9	Driveshaft slip-yoke

Driveshaft - Rear, One-Piece



Item	Description
1	Universal joint (U-joint)
2	Snap ring
3	Bearing cup
4	Seal
5	Spider
6	Driveshaft
7	Driveshaft slip-yoke boot clamp— (large)

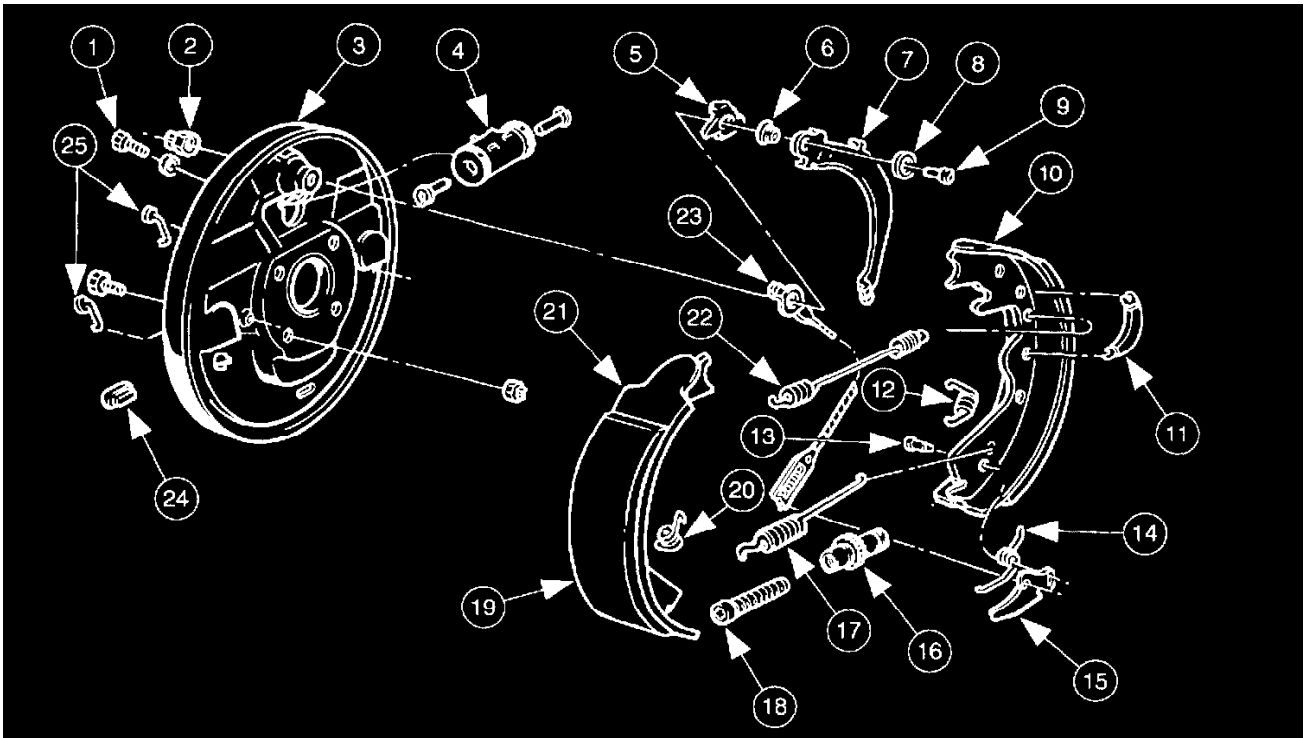
Item	Description
8	Universal joint slip-yoke boot
9	Driveshaft slip-yoke boot clamp— (small)
10	Driveshaft slip-yoke
11	Rubber insulator
12	Bearing
13	Bearing shield

Driveshaft - Rear, Two-Piece - 1 Of 2

Item	Description
14	Driveshaft center Bearing Bracket

Item	Description
15	Driveshaft

Driveshaft - Rear, Two-Piece - 2 Of 2



Item	Description
1	Wheel Cylinder-to-Backing Plate Bolt (2 Req'd)
2	Lock Nut
3	Brake Backing Plate
4	Rear Wheel Cylinder
5	Brake Shoe Anchor Pin Guide Plate
6	Parking Brake Link Spring

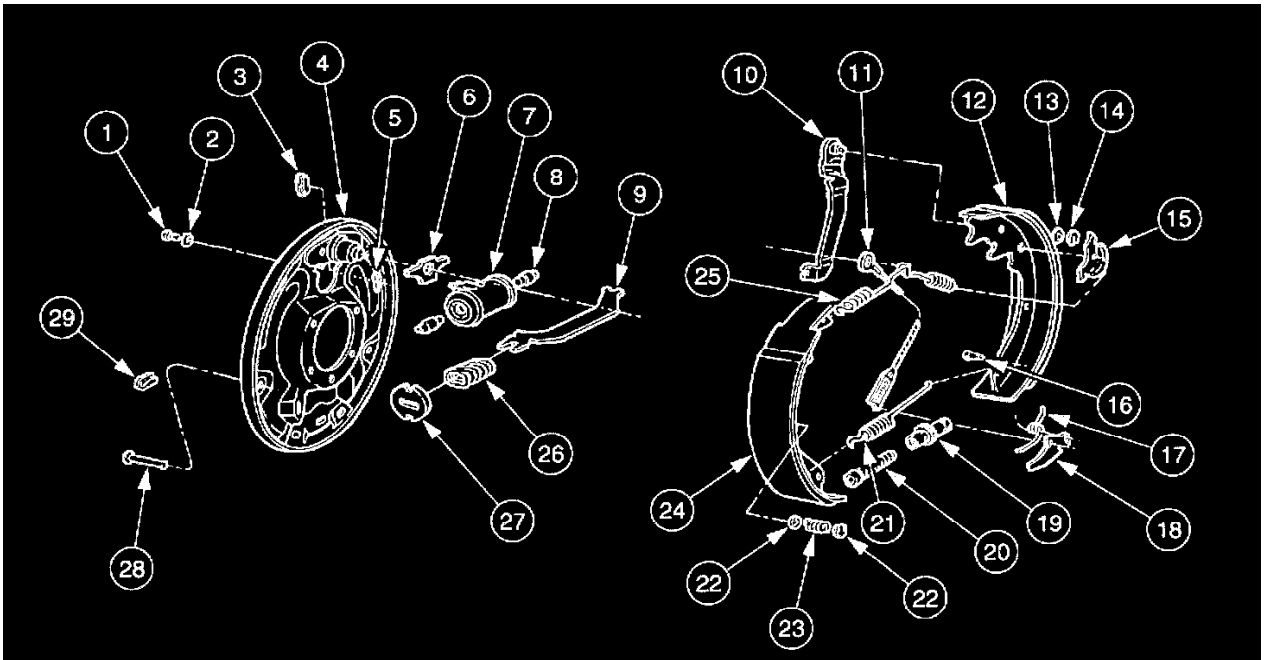
Item	Description
7	Parking Brake Lever
8	Parking Brake Lever Pin Retainer
9	Parking Brake Lever Bolt
10	Rear Brake Shoe and Lining, Secondary
11	Cable Guide
12	Brake Shoe Hold-Down Spring

Part 1 Of 2

Item	Description
13	Adjusting Lever Pin
14	Adjusting Lever Return Spring
15	Brake Shoe Adjusting Lever
16	Brake Shoe Adjusting Screw Nut
17	Brake Shoe Adjusting Screw Spring
18	Brake Adjuster Screw
19	Shoe Lining

Item	Description
20	Brake Shoe Hold-Down Spring
21	Rear Brake Shoe and Lining, Primary
22	Brake Shoe Retracting Spring
23	Brake Shoe Adjusting Lever Cable
24	Brake Adjusting Hole Cover
25	Brake Shoe Hold-Down Spring Pin

Part 2 Of 2



Item	Description
1	Wheel Cylinder-to-Backing Plate Bolt (2 Req'd)
2	Washer
3	Inspection Hole Cover
4	Brake Backing Plate
5	Lining Inspection Hole
6	Anchor Pin Guide Plate
7	Rear Wheel Cylinder
8	Wheel Cylinder Brake Shoe Link
9	Parking Brake Strut

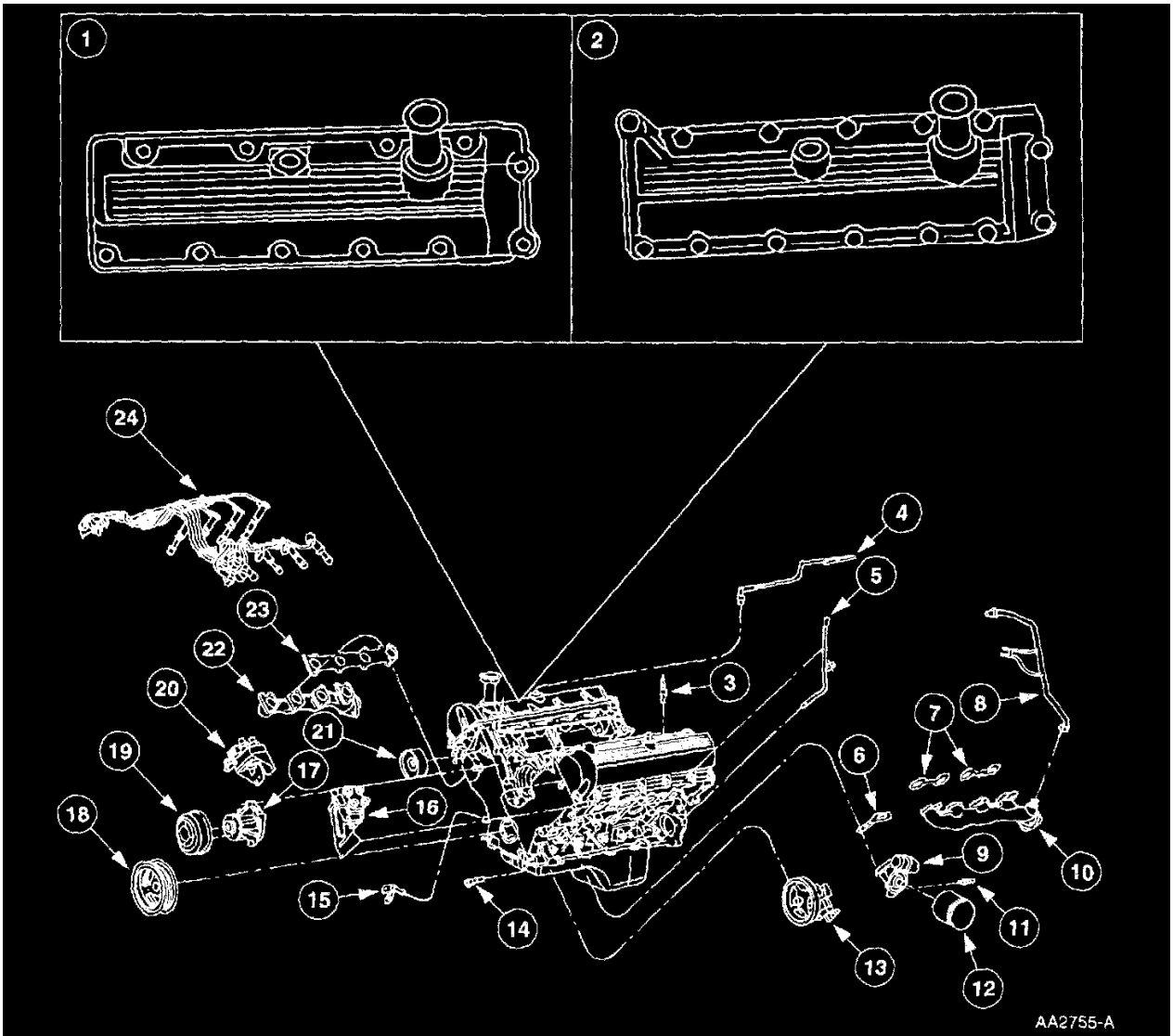
Item	Description
10	Parking Brake Lever
11	Brake Shoe Adjusting Lever Cable
12	Rear Brake Shoe and Lining, Secondary
13	Washer
14	Parking Brake Lever Pin Retainer
15	Cable Guide
16	Adjusting Lever Pin
17	Adjusting Lever Return Spring
18	Brake Shoe Adjusting Lever

Part 1 Of 2

Item	Description
19	Brake Shoe Adjusting Screw Nut
20	Brake Adjuster Screw
21	Brake Shoe Adjusting Screw Spring
22	Brake Shoe Hold-Down Spring Cup
23	Brake Shoe Hold-Down Spring

Item	Description
24	Rear Brake Shoe and Lining, Primary
25	Brake Shoe Retracting Spring, Short
26	Parking Brake Link Spring
27	Parking Brake Spring Retainer
28	Brake Shoe Hold-Down Spring Pin
29	Brake Adjusting Hole Cover

Part 2 Of 2



Item	Description
1	Valve Cover—, RH Romeo Engine
2	Valve Cover—, RH Windsor Engine
3	Spark Plug— (8 Req'd)
4	Crankcase Vent Connector and Hose
5	Oil Level Indicator Tube

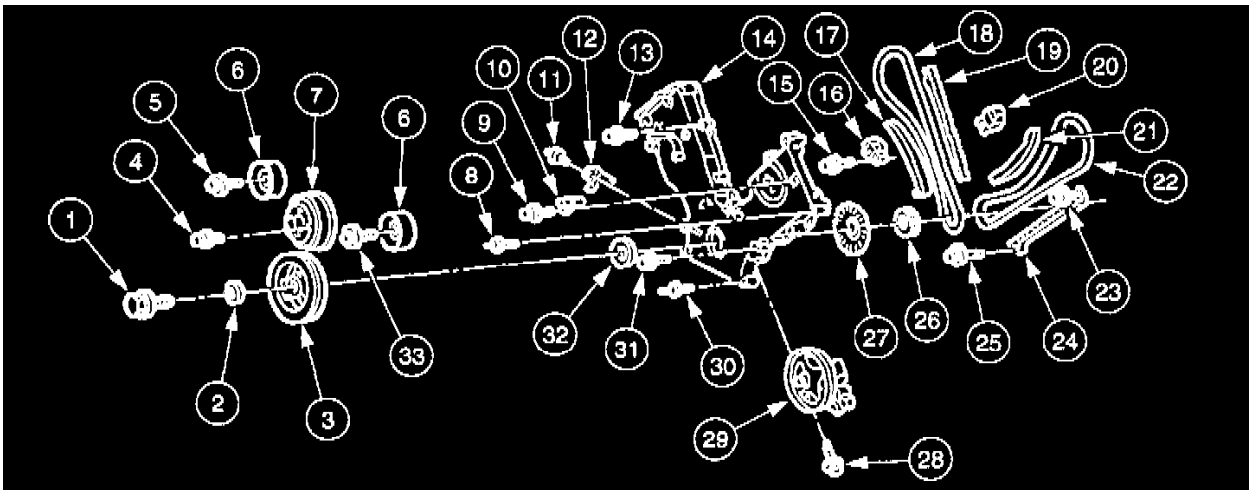
Item	Description
6	Oil Filter Adapter Gasket
7	Exhaust Manifold Gasket—, LH
8	EGR Valve to Exhaust Manifold Tube
9	Oil Filter Adapter— (Romeo Shown)
10	Exhaust Manifold—, LH

Part 1 Of 2

Item	Description
11	Oil Pressure Sensor
12	Oil Bypass Filter
13	Power Steering Pump
14	Camshaft Position Sensor
15	Crankshaft Position Sensor
16	Ignition Coil— and Bracket, LH
17	Water Pump

Item	Description
18	Crankshaft Pulley
19	Water Pump Pulley
20	Ignition Coil— and Bracket, RH
21	Belt Idler Pulley
22	Exhaust Manifold—, RH
23	Exhaust Manifold Gasket—, RH
24	Ignition Wire and Bracket

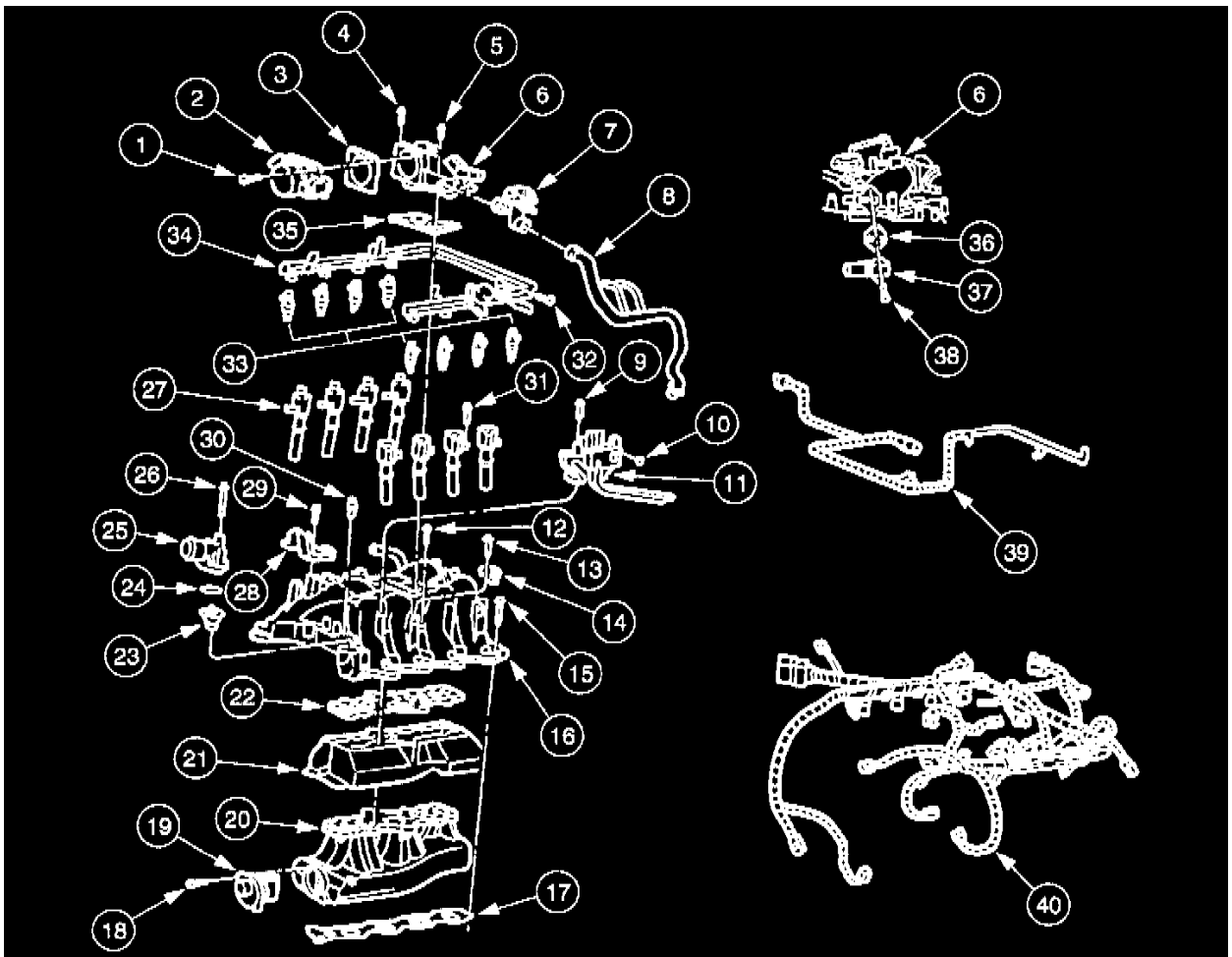
Part 2 Of 2



Item	Description
1	Crankshaft Pulley Bolt
2	Washer
3	Crankshaft Pulley
4	Bolt (4 Req'd)
5	Bolt
6	Belt Idler Pulley
7	Water Pump Pulley
8	Front Cover Bolt (5 Req'd)
9	Bolt
10	Camshaft Position Sensor
11	Bolt
12	Crankshaft Position Sensor
13	Front Cover Bolt (3 Req'd)
14	Engine Front Cover
15	Bolt
16	Timing Chain Tensioner (RH)
17	Timing Chain Tensioner Arm (RH)

Item	Description
18	Timing Chain (RH)
19	Timing Chain Guide (RH)
20	Timing Chain Tensioner (LH)
21	Timing Chain Tensioner Arm (LH)
22	Timing Chain (LH)
23	Bolt
24	Timing Chain Guide (LH)
25	Bolt
26	Crankshaft Sprocket (2 Req'd)
27	Crankshaft Sensor Ring
28	Bolt (3 Req'd)
29	Power Steering Pump Assy
30	Front Cover Bolt (2 Req'd)
31	Front Cover Bolt (5 Req'd)
32	Crankshaft Front Seal
33	Bolt

5.4L Engine - Front End



Item	Description
1	Bolt (4 Req'd)
2	Throttle Body
3	Throttle Body Gasket
4	Bolt
5	Bolt (3 Req'd)
6	Throttle Body Spacer
7	EGR Valve

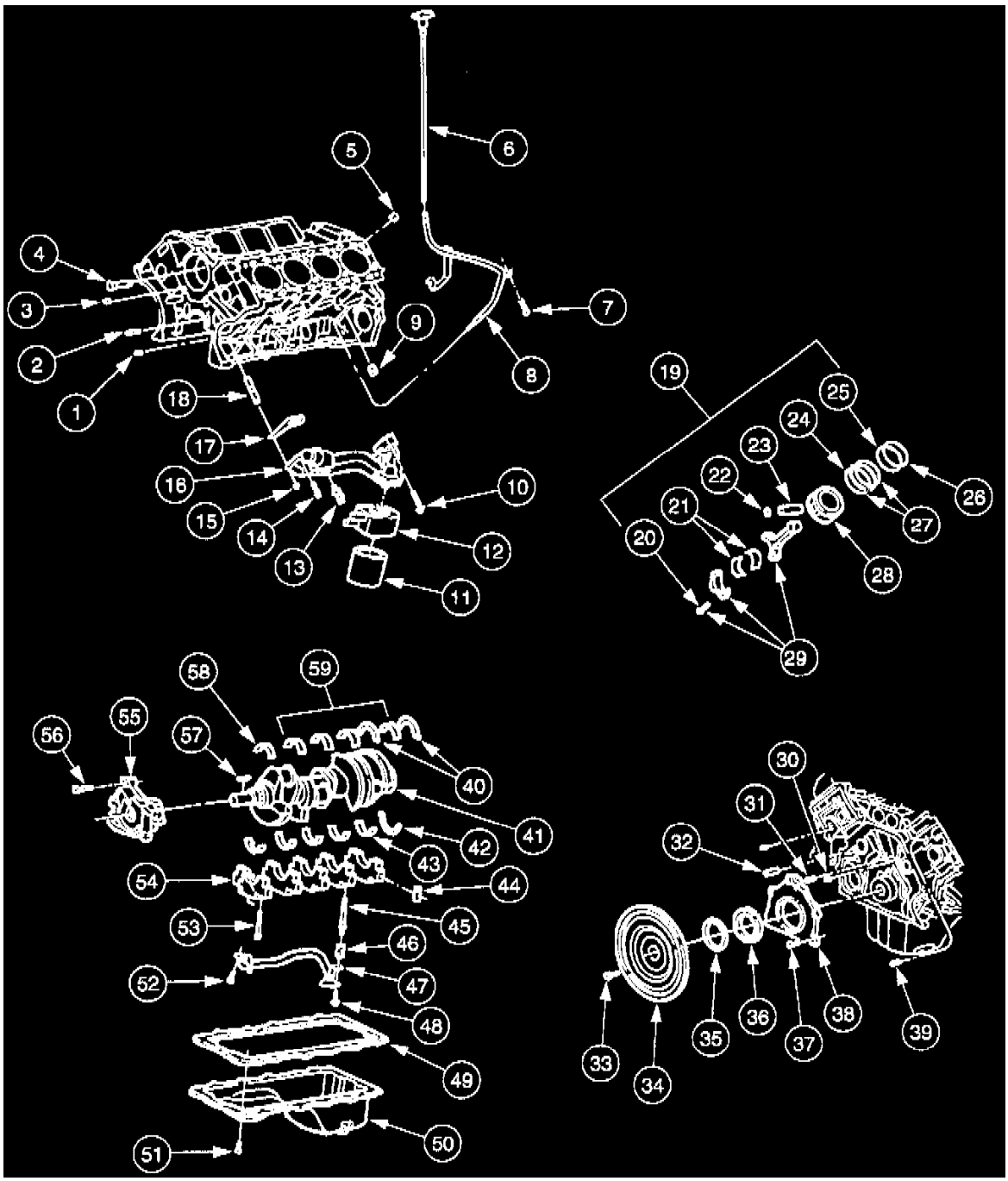
Item	Description
8	EGR Valve to Exhaust Manifold Tube
9	Bolt
10	Screw
11	EGR Vacuum Regulator Bracket
12	Bolt (2 Req'd)

5.4L Engine Induction System (Part 1 Of 2)

Item	Description
13	Bolt (2 Req'd)
14	Radio Ignition Interference Capacitor
15	Bolt (9 Req'd) Upper to Head
16	Intake Manifold (Upper)
17	Intake Manifold Gasket (Upper)
18	Bolt (2 Req'd)
19	Intake Manifold Tuning Valve (IMTV)
20	Intake Manifold (Lower)
21	Intake Manifold Insulator
22	Intake Manifold Gasket (Lower)
23	Water Thermostat
24	O-Ring
25	Water Outlet
26	Bolt (3 Req'd)

Item	Description
27	Coil and Boot Assy
28	Accelerator Cable Bracket
29	Bolt (2 Req'd)
30	Water Temperature Indicator Sender Unit
31	Bolt (8 Req'd)
32	Bolt (4 Req'd)
33	Fuel Injector
34	Fuel Injection Supply Manifold
35	Intake Manifold to Throttle Body Spacer Gasket
36	Idle Air Control Gasket
37	Idle Air Control Valve
38	Bolt (2 Req'd)
39	Main Emission Vacuum Control Connector Harness
40	Fuel Charging Wiring Harness

5.4L Engine Induction System (Part 2 Of 2)

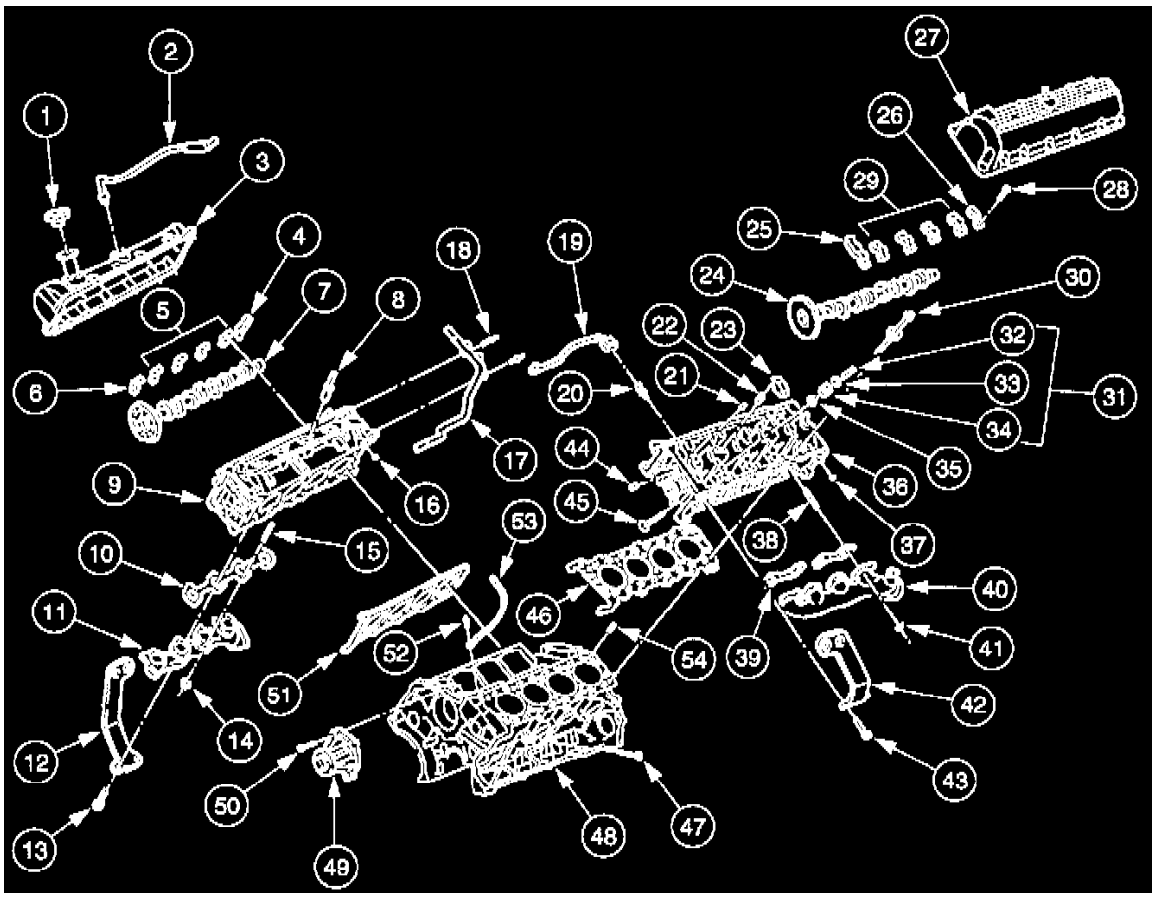


5.4L Engine - Lower End (Part 1 Of 2)

Item	Description
1	Dowel (4 Req'd)
2	Dowel (2 Req'd)
3	Plug (2 Req'd)
4	Heater Water Tube Assy
5	Dowel (4 Req'd)
6	Oil Level Dipstick
7	Bolt
8	Oil Level Indicator Tube
9	Plug (2 Req'd)
10	Bolt
11	Oil Bypass Filter
12	Oil Cooler
13	Oil Pressure Sensor
14	Bolt (3 Req'd)
15	Nut
16	Oil Filter Adapter
17	Oil Filter Adapter Gasket
18	Stud
19	Piston/Connecting Rod Assy
20	Connecting Rod Bolt
21	Connecting Rod Bearing
22	Piston Pin Retainer
23	Piston Pin
24	Oil Ring Expander
25	Piston Compression Ring
26	Piston Compression Ring
27	Piston Oil Ring
28	Piston
29	Connecting Rod
30	Plug (6 Req'd)
31	Dowel (4 Req'd)
32	Dowel (2 Req'd)

Item	Description
33	Bolt (8 Req'd)
34	Flywheel
35	Crankshaft Oil Slinger
36	Crankshaft Rear Oil Seal
37	Bolt (6 Req'd)
38	Crankshaft Rear Oil Seal and Retainer
39	Dowel
40	Crankshaft Thrust Washer, Upper
41	Crankshaft
42	Crankshaft Thrust Washer, Lower
43	Crankshaft Main Bearing
44	Crankshaft Main Bearing Cap Dowel
45	Crankshaft Main Bearing Cap Stud
46	Spacer, Oil Screen and Tube
47	Oil Pump Screen Cover and Tube
48	Bolt
49	Oil Pan Gasket
50	Oil Pan
51	Bolt (16 Req'd)
52	Bolt (2 Req'd)
53	Crankshaft Main Bearing Cap Stud
54	Main Bearing Cap
55	Oil Pump
56	Bolt (3 Req'd)
57	Crankshaft Key
58	Crankshaft Main Bearing, Front
59	Crankshaft Main Bearing

5.4L Engine - Lower End (Part 2 Of 2)

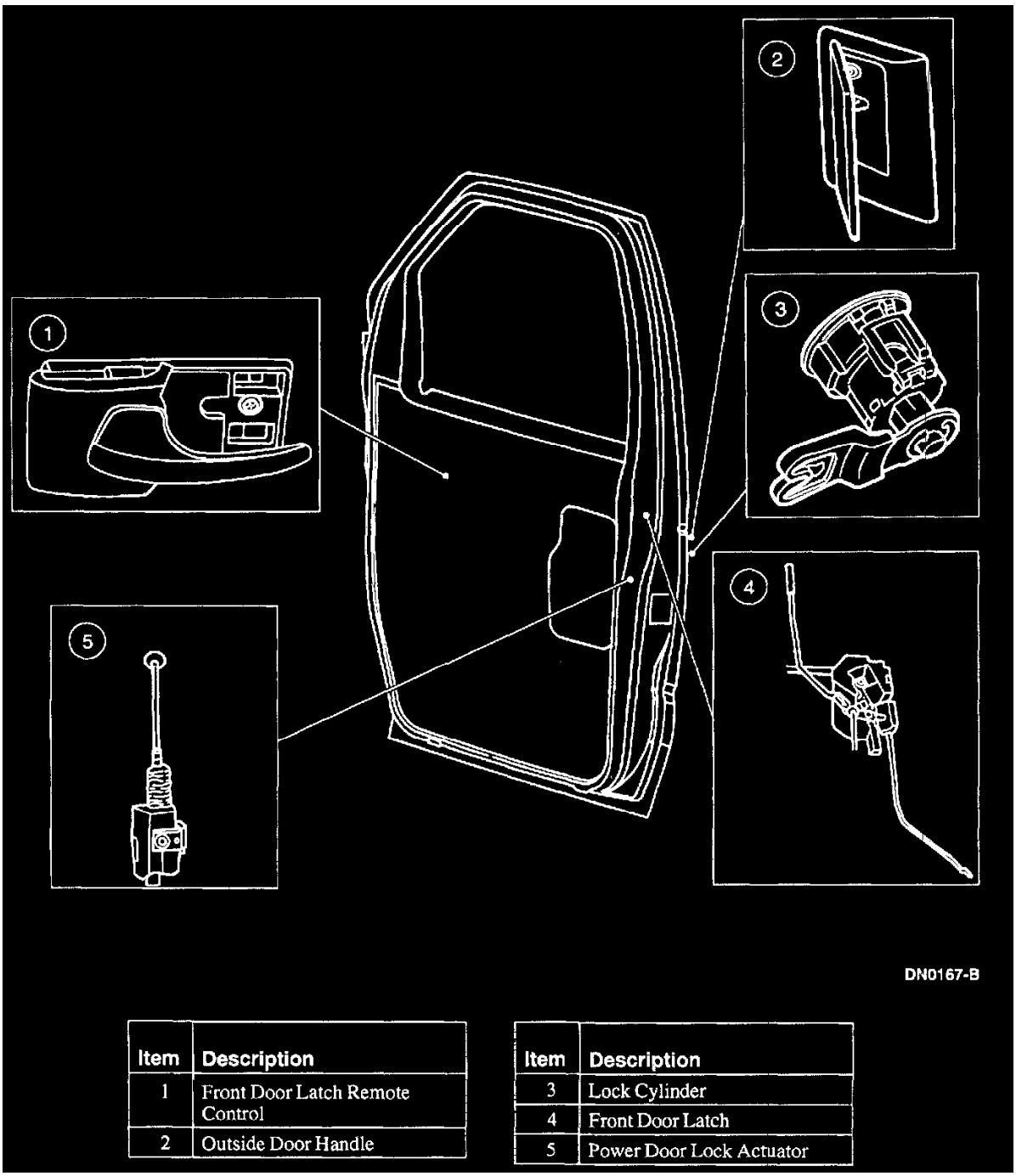


5.4L Engine - Upper End (Part 1 Of 2)

Item	Description
1	Oil Filler Cap
2	Crankcase Vent Connector and Hose
3	Valve Cover (RH)
4	Camshaft Bearing Cap
5	Camshaft Bearing Cap (4 Req'd)
6	Camshaft Bearing Cap
7	Camshaft (RH)
8	Spark Plug
9	Cylinder Head (RH)
10	Exhaust Manifold Gasket , RH
11	Exhaust Manifold (RH)
12	Lifting Bracket
13	Bolt (4 Req'd)
14	Nut (8 Req'd)
15	Stud (8 Req'd)
16	Pipe Plug
17	Heater Water Outlet Tube
18	Bolt (2 Req'd)
19	Cylinder Head Temperature Sensor Jumper
20	Cylinder Head Temperature Sensor
21	Cylinder Head Oil Reservoir Restrictor
22	Hydraulic Lash Adjusters (16 Req'd)
23	Roller Followers (16 Req'd)
24	Camshaft (LH)
25	Camshaft Bearing Cap
26	Camshaft Bearing Cap

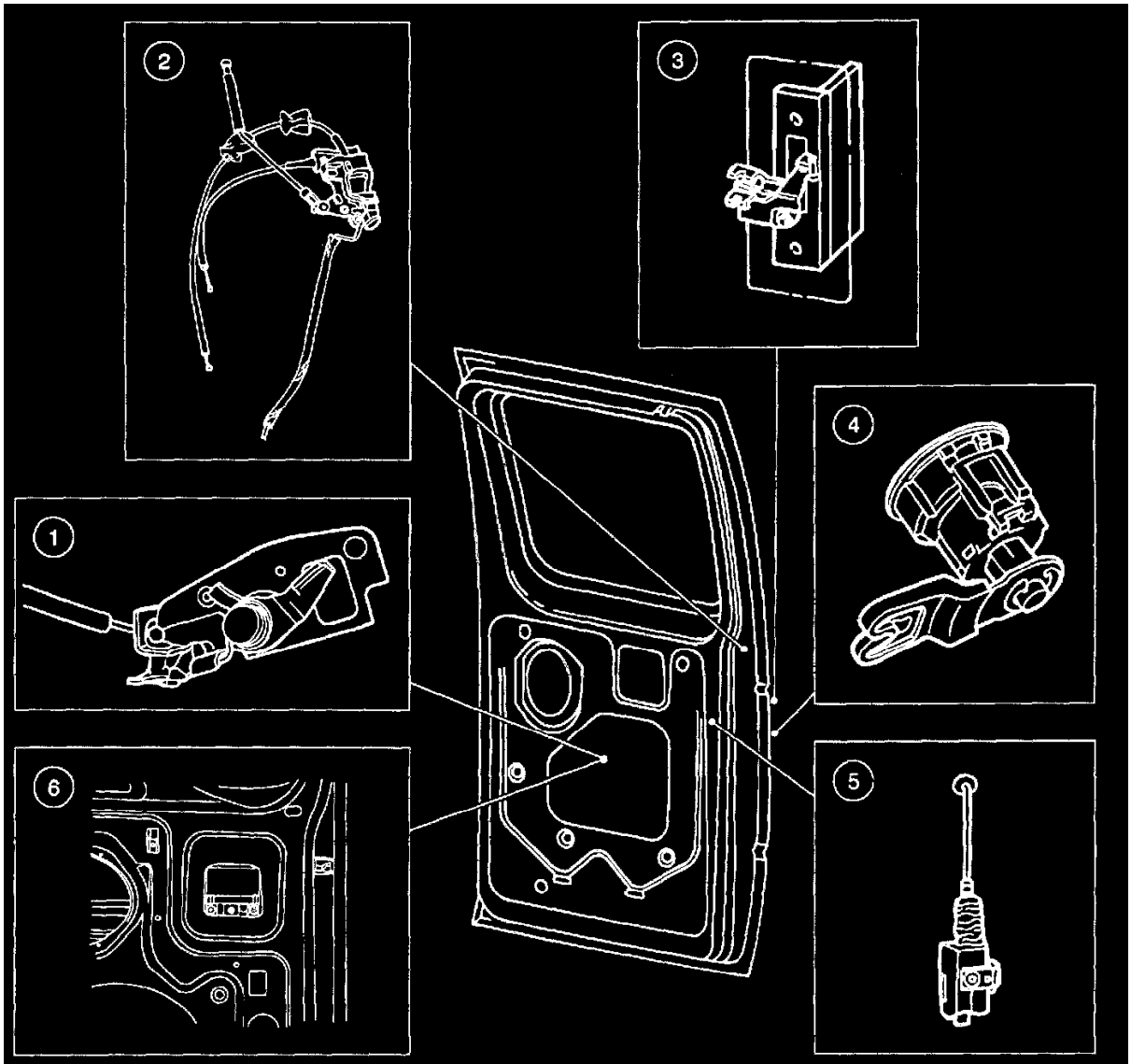
Item	Description
27	Valve Cover (LH)
28	Camshaft Bearing Cap Bolt (26 Req'd)
29	Camshaft Bearing Cap (4 Req'd)
30	Cylinder Head Bolt (20 Req'd)
31	Valve Spring Assy (16 Req'd)
32	Valve Spring Retainer Key
33	Valve Spring Retainer
34	Valve Spring
35	Valve Stem Seal
36	Cylinder Head (LH)
37	Pipe Plug
38	Stud (8 Req'd)
39	Exhaust Manifold Gaskets , LH
40	Exhaust Manifold (LH)
41	Nut (8 Req'd)
42	Lifting Bracket
43	Bolt (4 Req'd)
44	Pipe Plug (6 Req'd)
45	Intake Valve
45	Exhaust Valve
46	Head Gasket (LH)
47	Crankshaft Main Bearing Side Bolt — Bolt and Washer
48	Cylinder Block
49	Water Pump
50	Bolt (4 Req'd)
51	Head Gasket (RH)
52	Bolt
53	Knock Sensor
54	Dowel (4 Req'd)

5.4L Engine - Upper End (Part 2 Of 2)



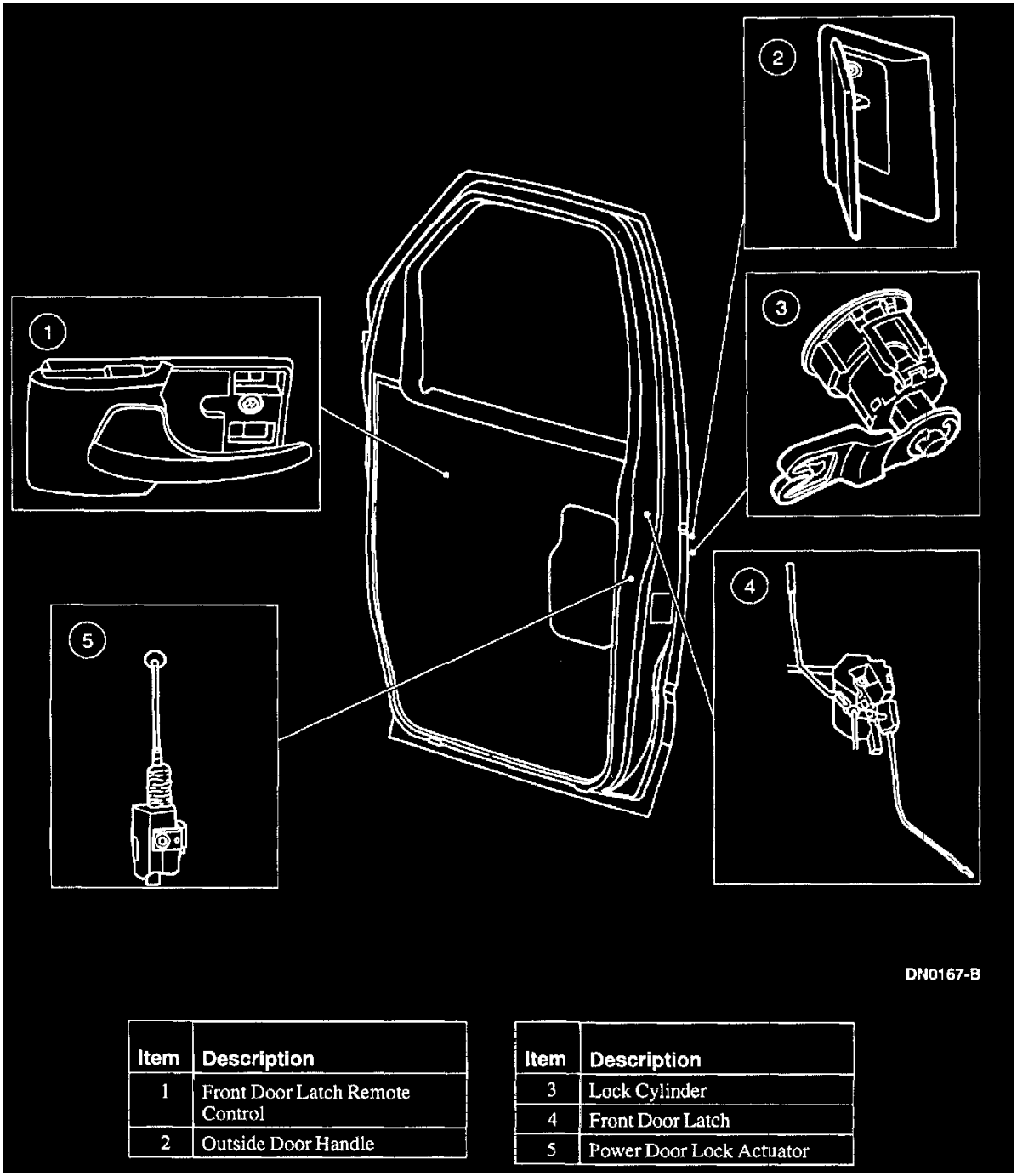
Item	Description
1	Front Door Latch Remote Control
2	Outside Door Handle

Item	Description
3	Lock Cylinder
4	Front Door Latch
5	Power Door Lock Actuator



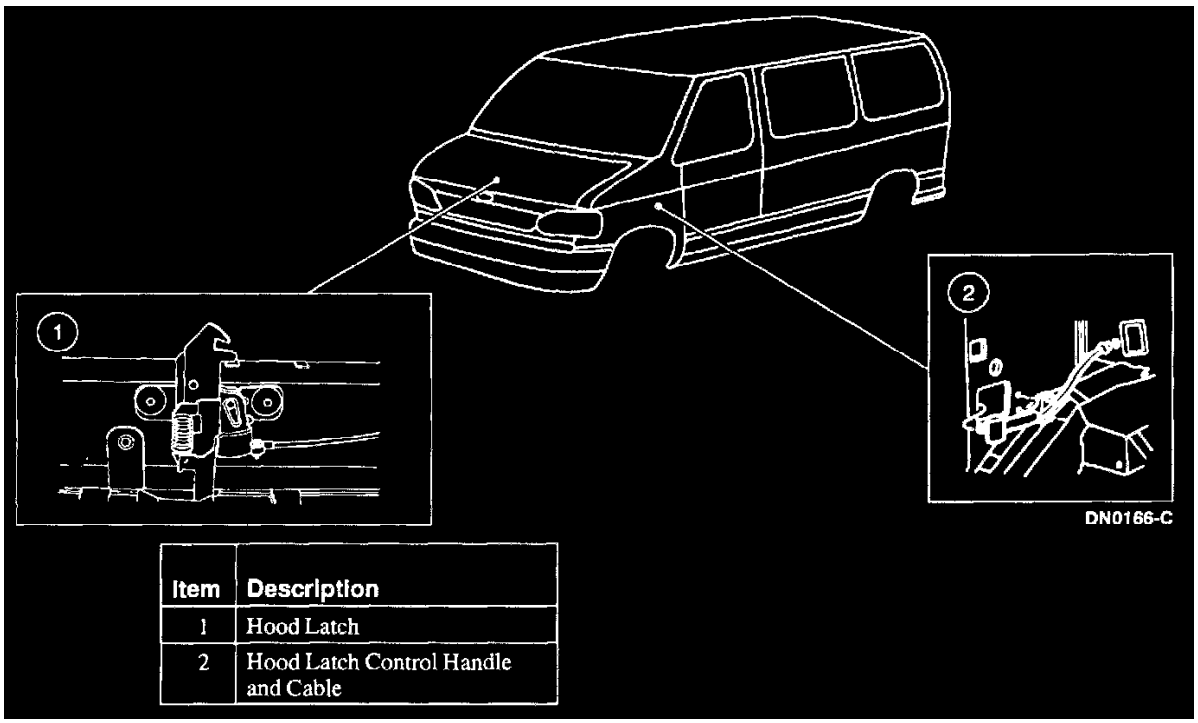
Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle

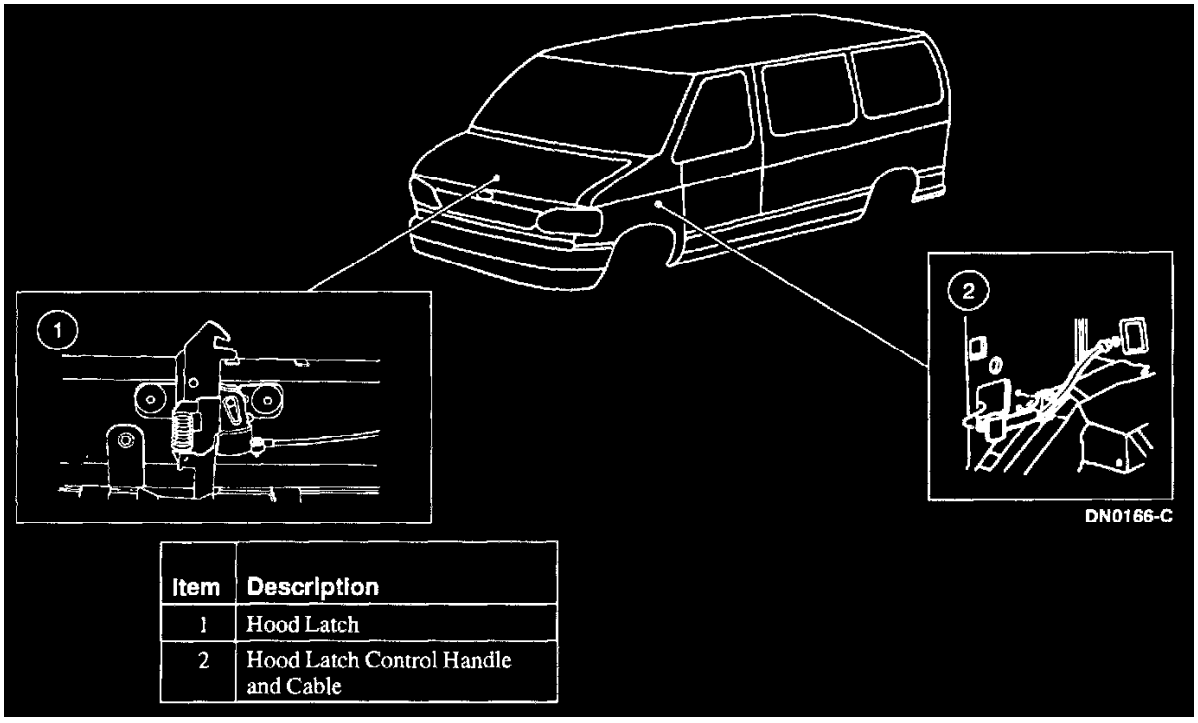


Item	Description
1	Front Door Latch Remote Control
2	Outside Door Handle

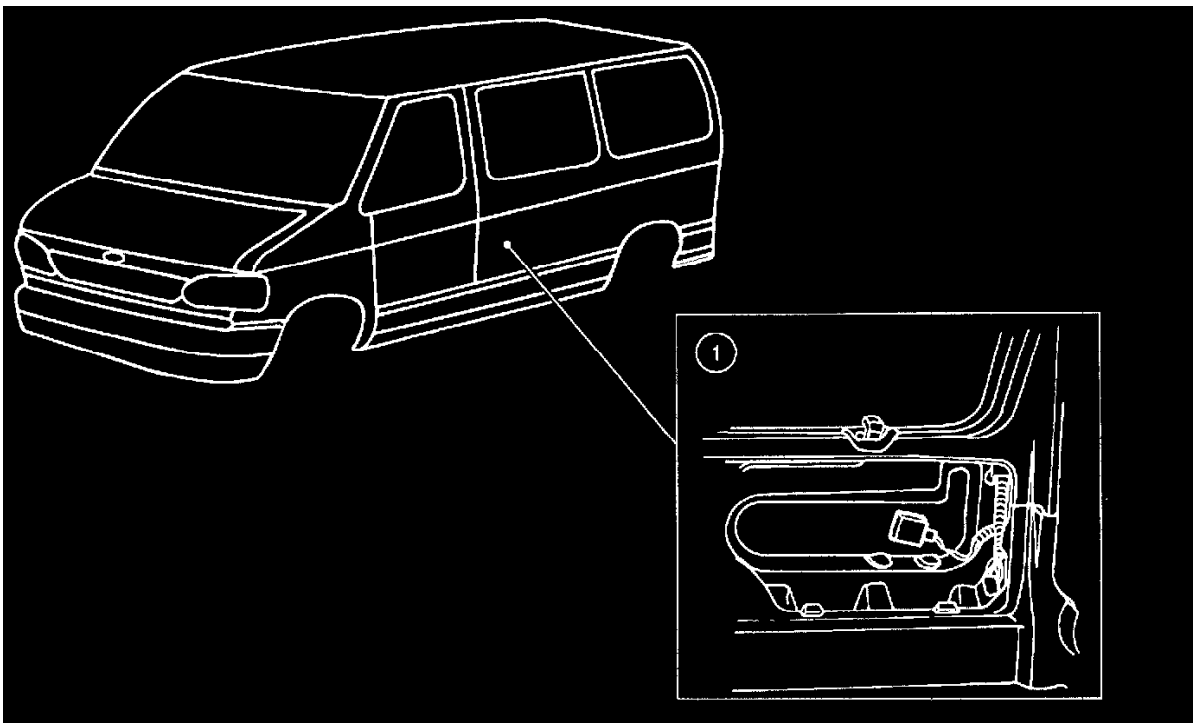
Item	Description
3	Lock Cylinder
4	Front Door Latch
5	Power Door Lock Actuator



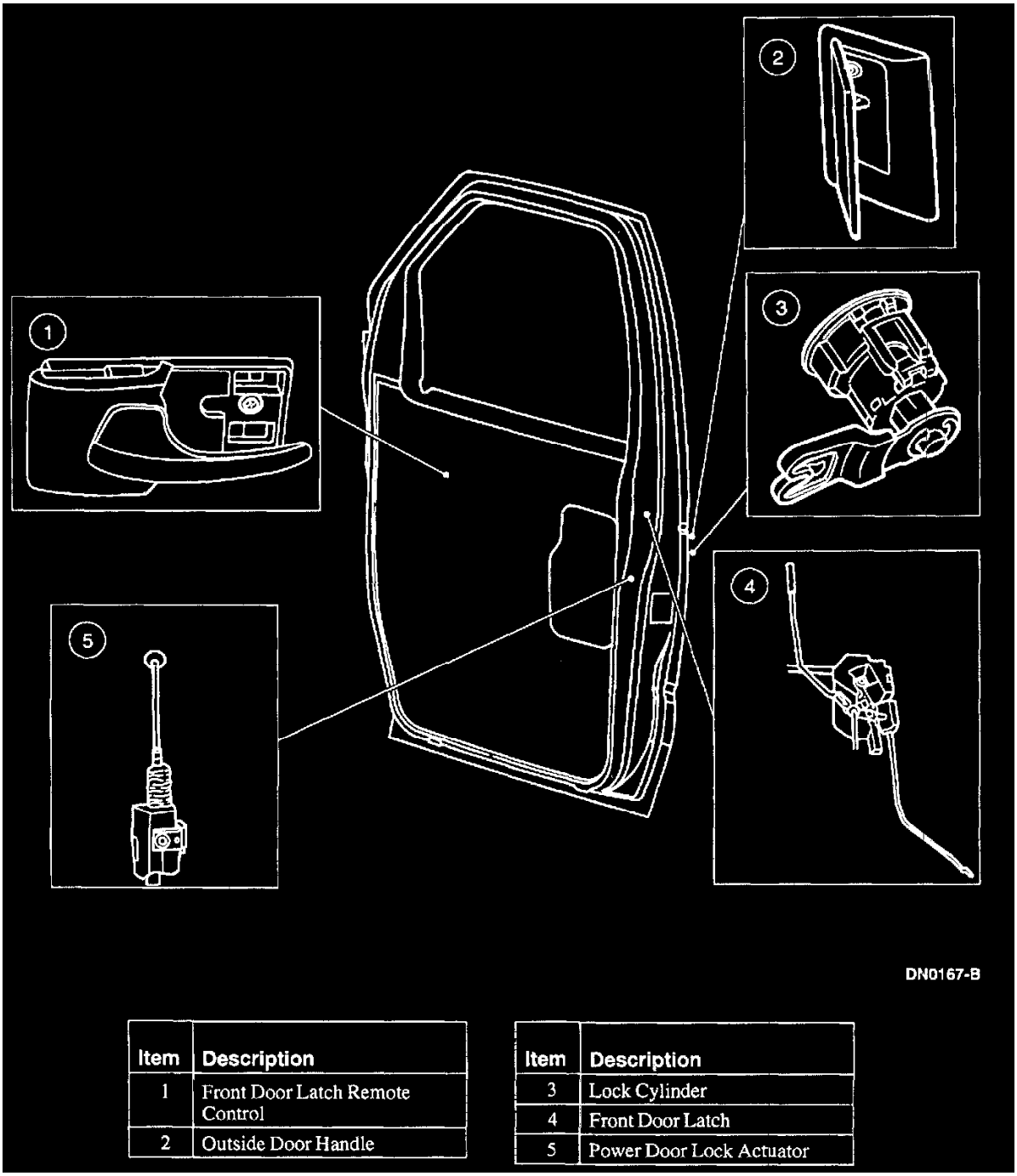
Item	Description
1	Hood Latch
2	Hood Latch Control Handle and Cable



Item	Description
1	Hood Latch
2	Hood Latch Control Handle and Cable

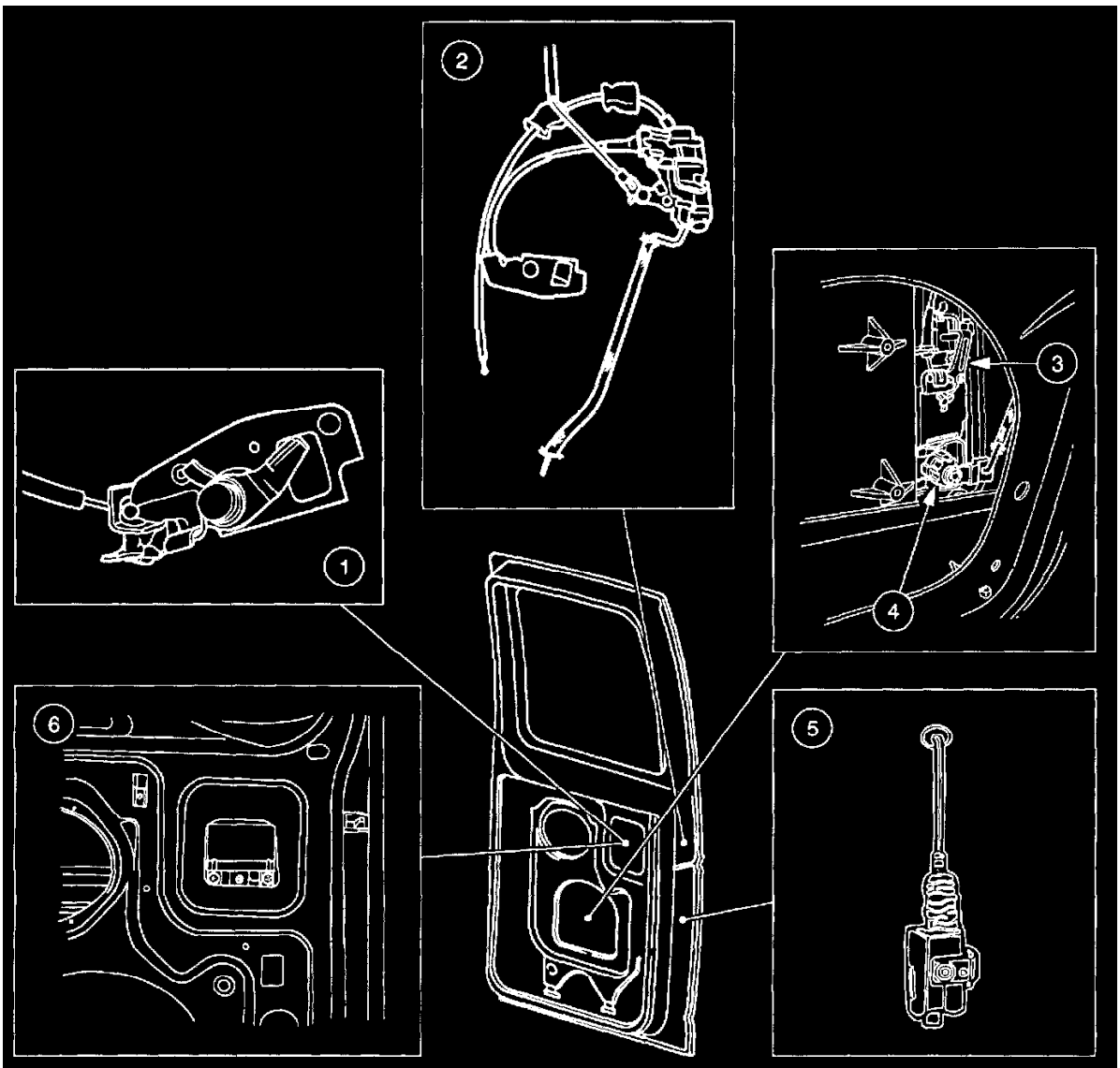


Item	Description
1	Memory Lock Relay Module



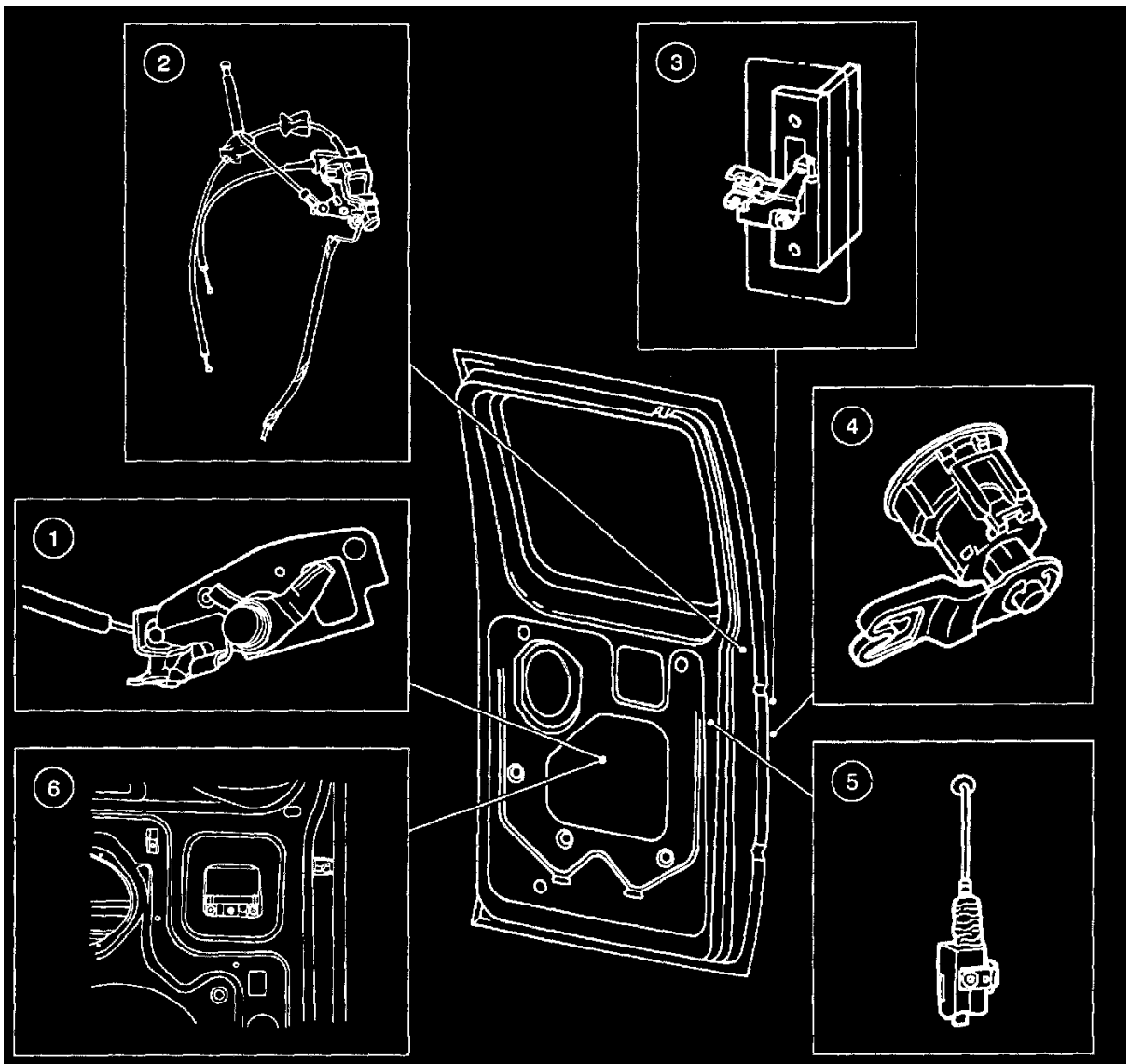
Item	Description
1	Front Door Latch Remote Control
2	Outside Door Handle

Item	Description
3	Lock Cylinder
4	Front Door Latch
5	Power Door Lock Actuator



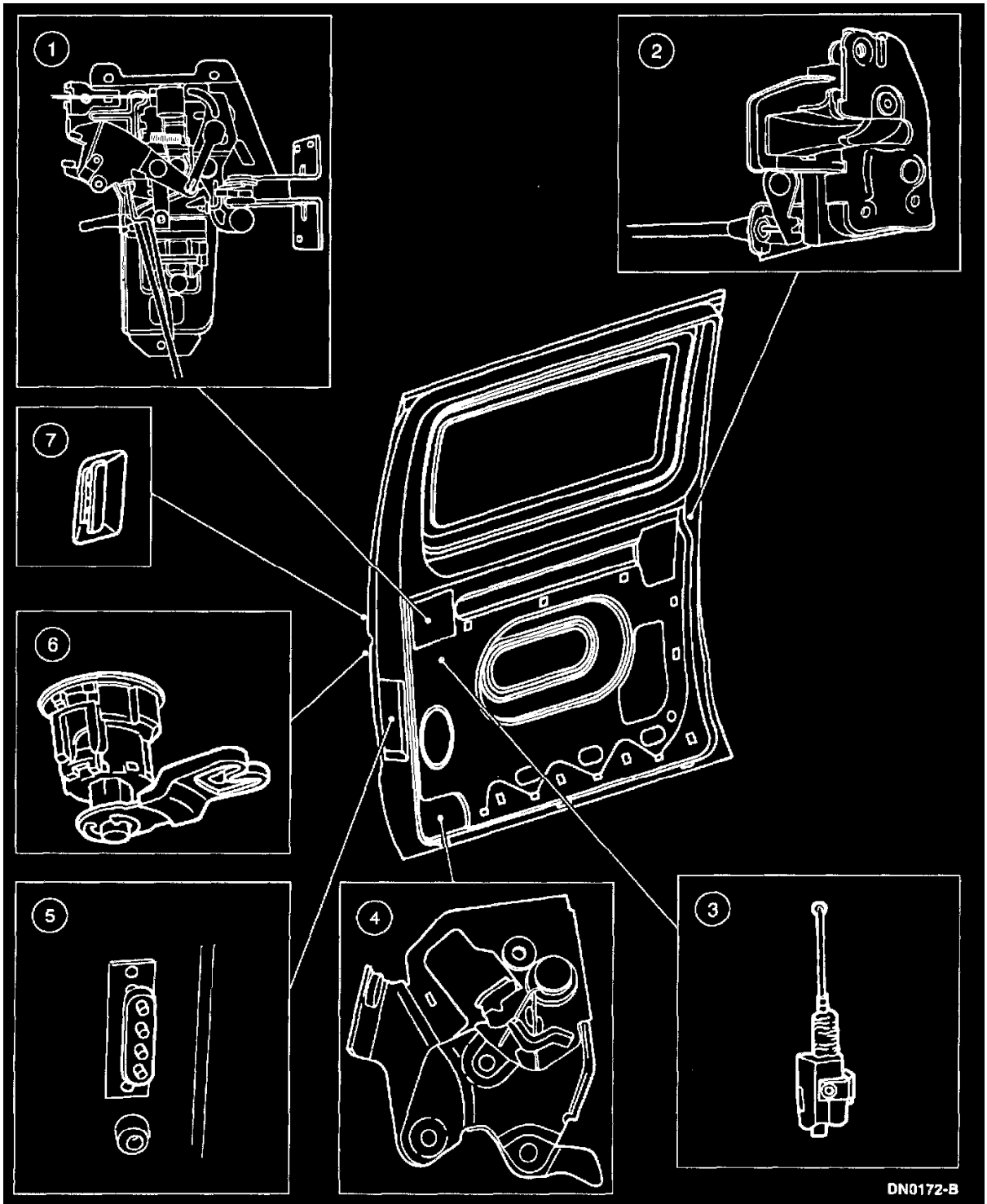
Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle



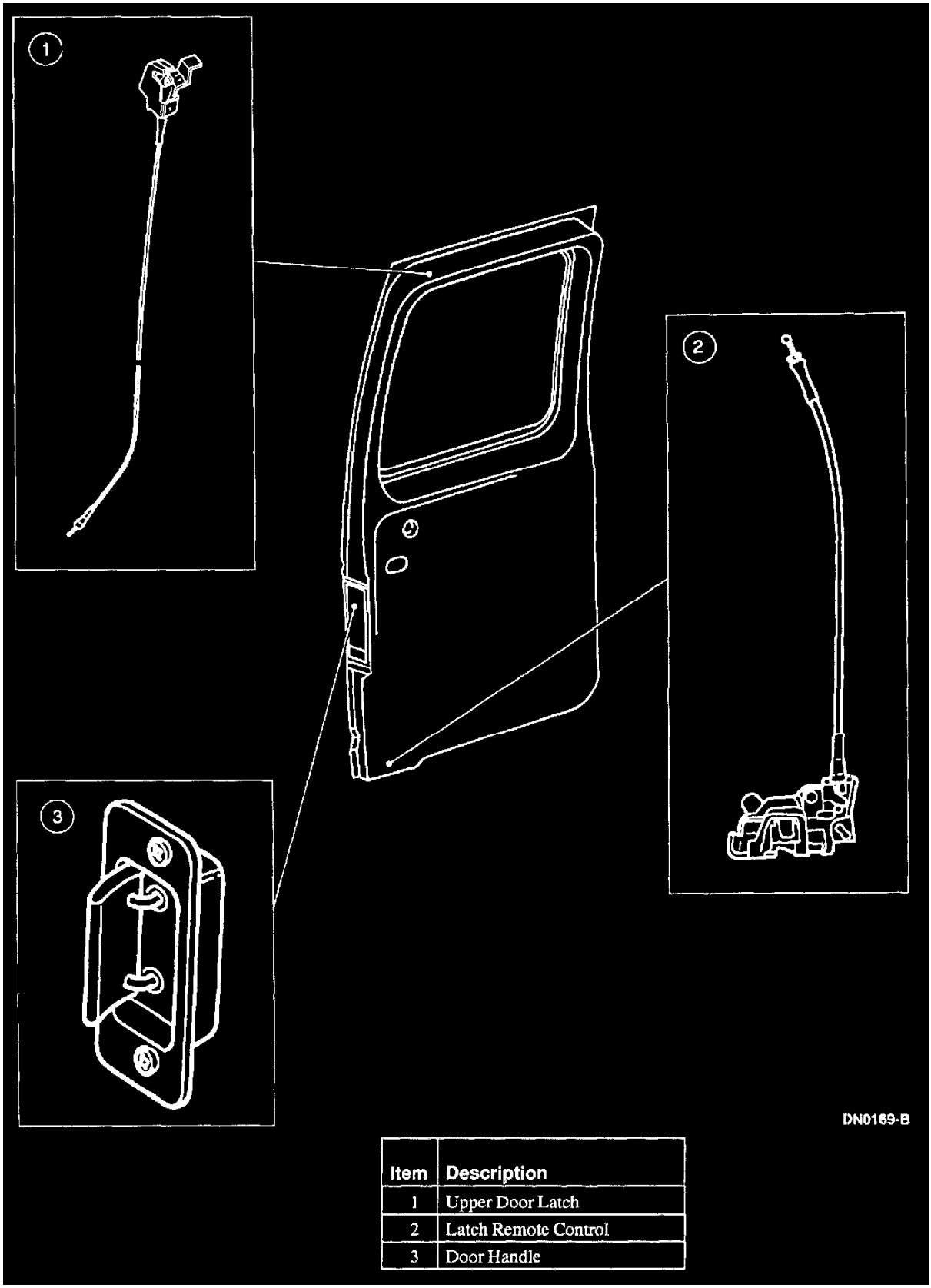
Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle

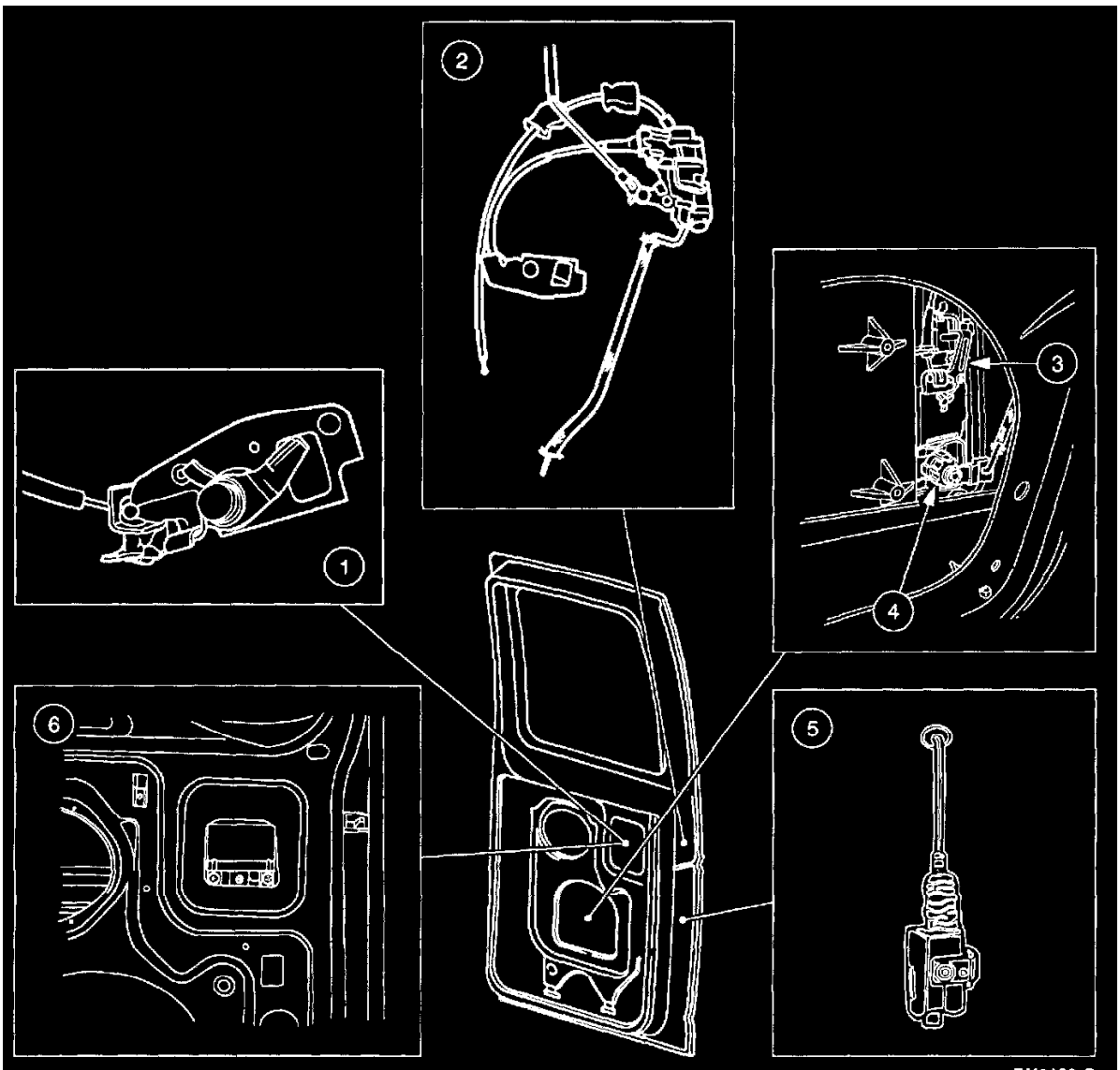


Item	Description
1	Latch Remote Control and Front Latch Assy
2	Rear Door Latch
3	Power Door Lock Actuator

Item	Description
4	Lower Door Latch
5	Sliding Door Contact Buttons
6	Lock Cylinder
7	Outside Door Handle

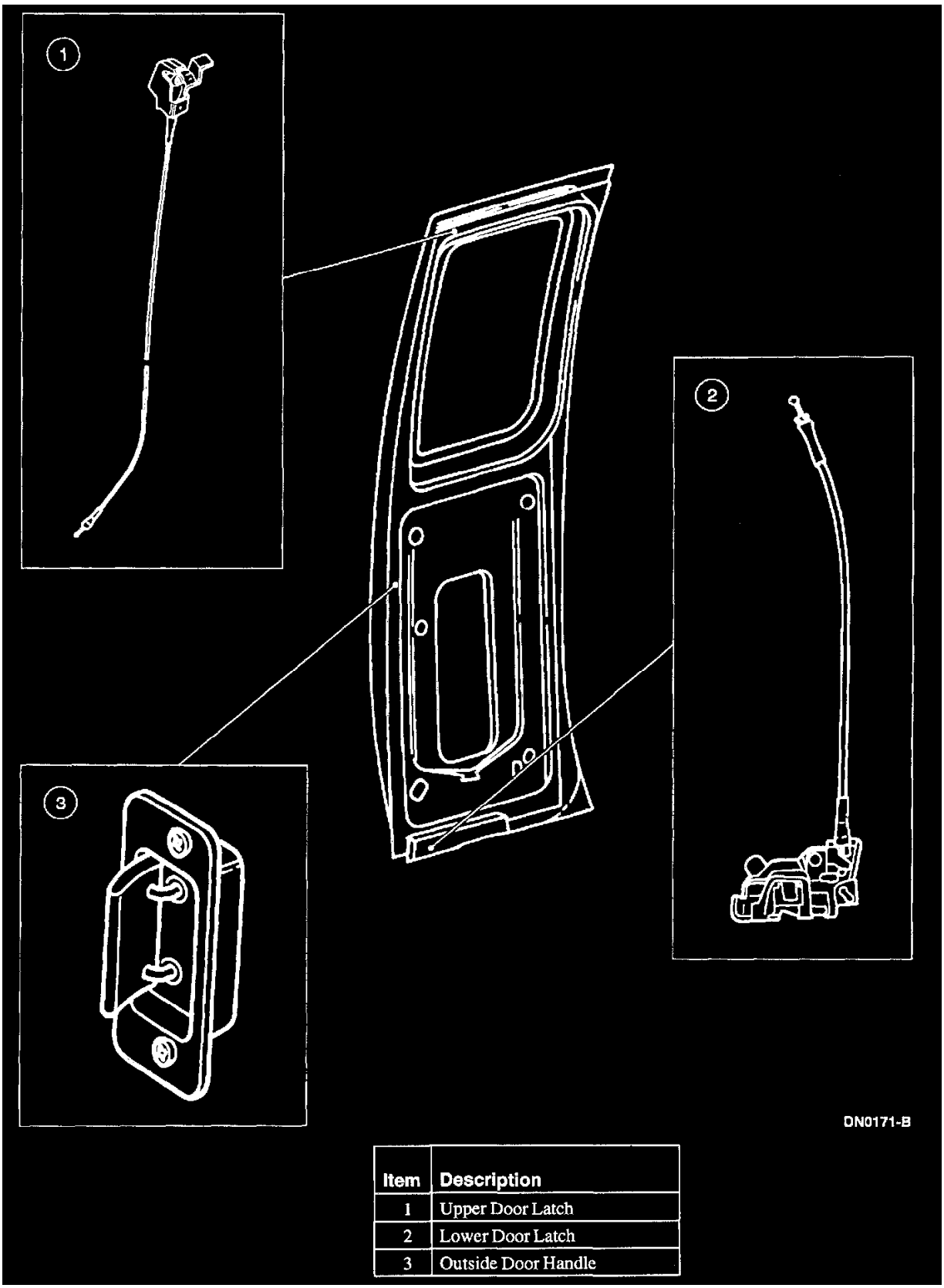


Item	Description
1	Upper Door Latch
2	Latch Remote Control
3	Door Handle

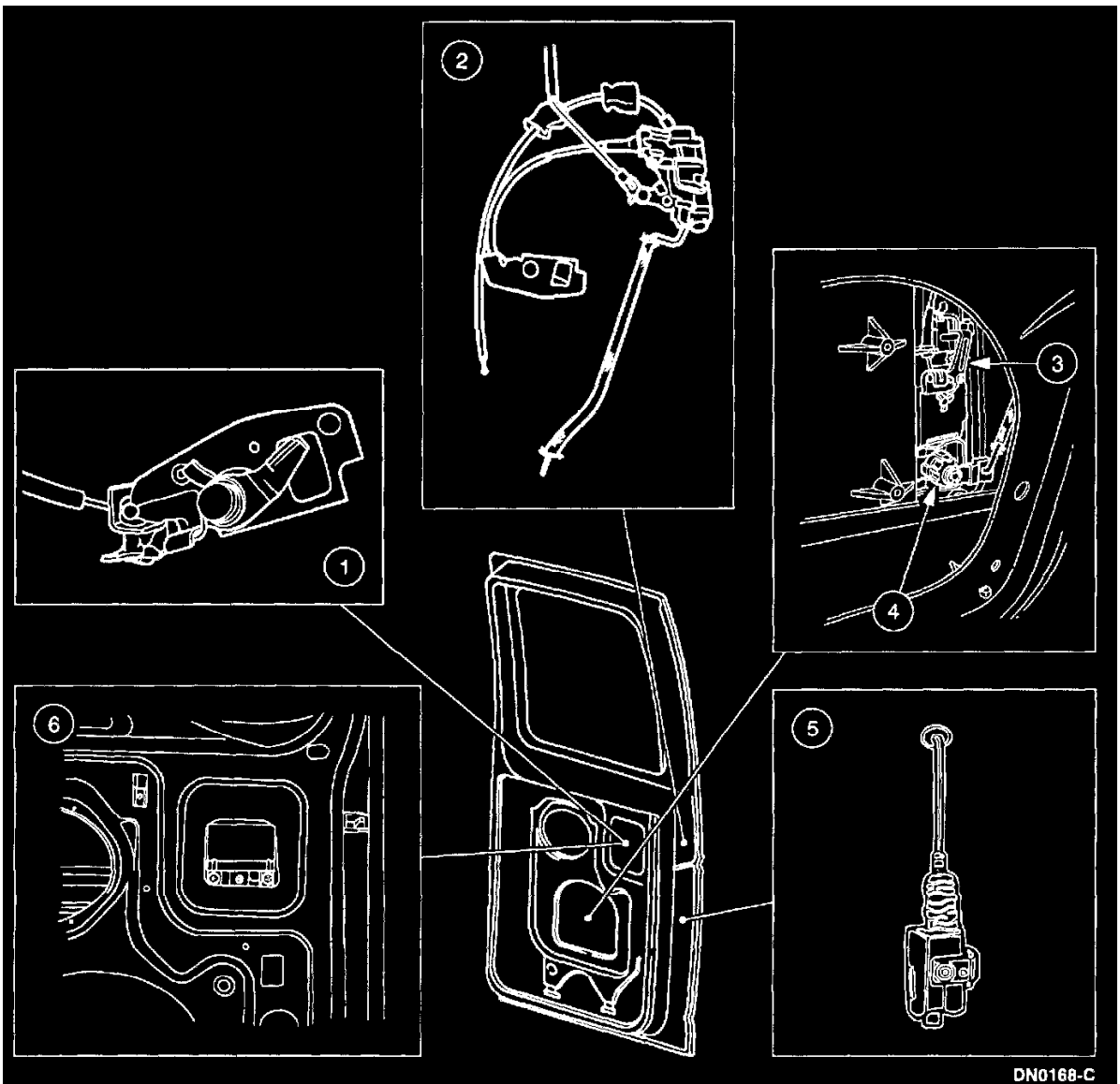


Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle

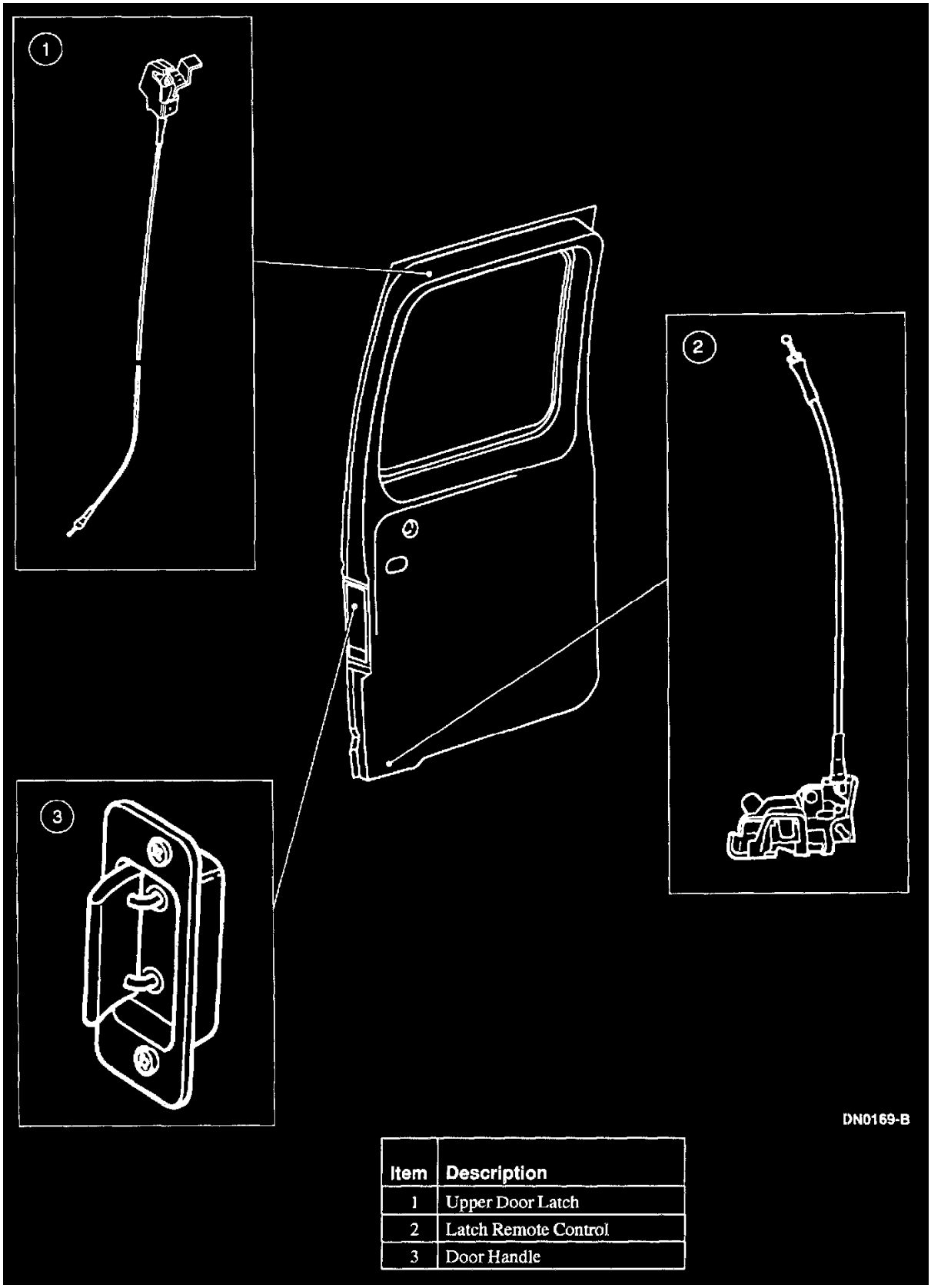


Item	Description
1	Upper Door Latch
2	Lower Door Latch
3	Outside Door Handle

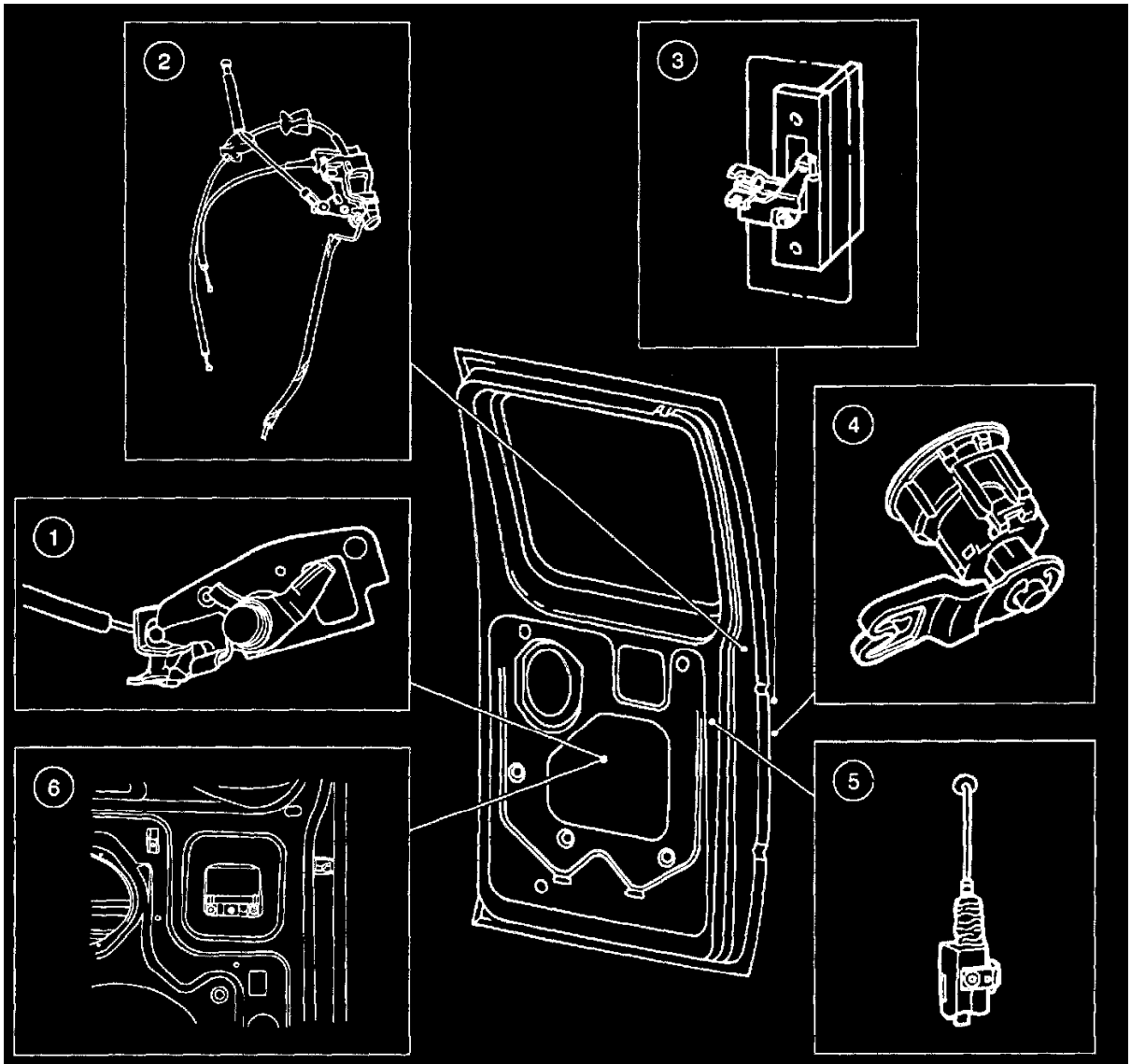


Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle

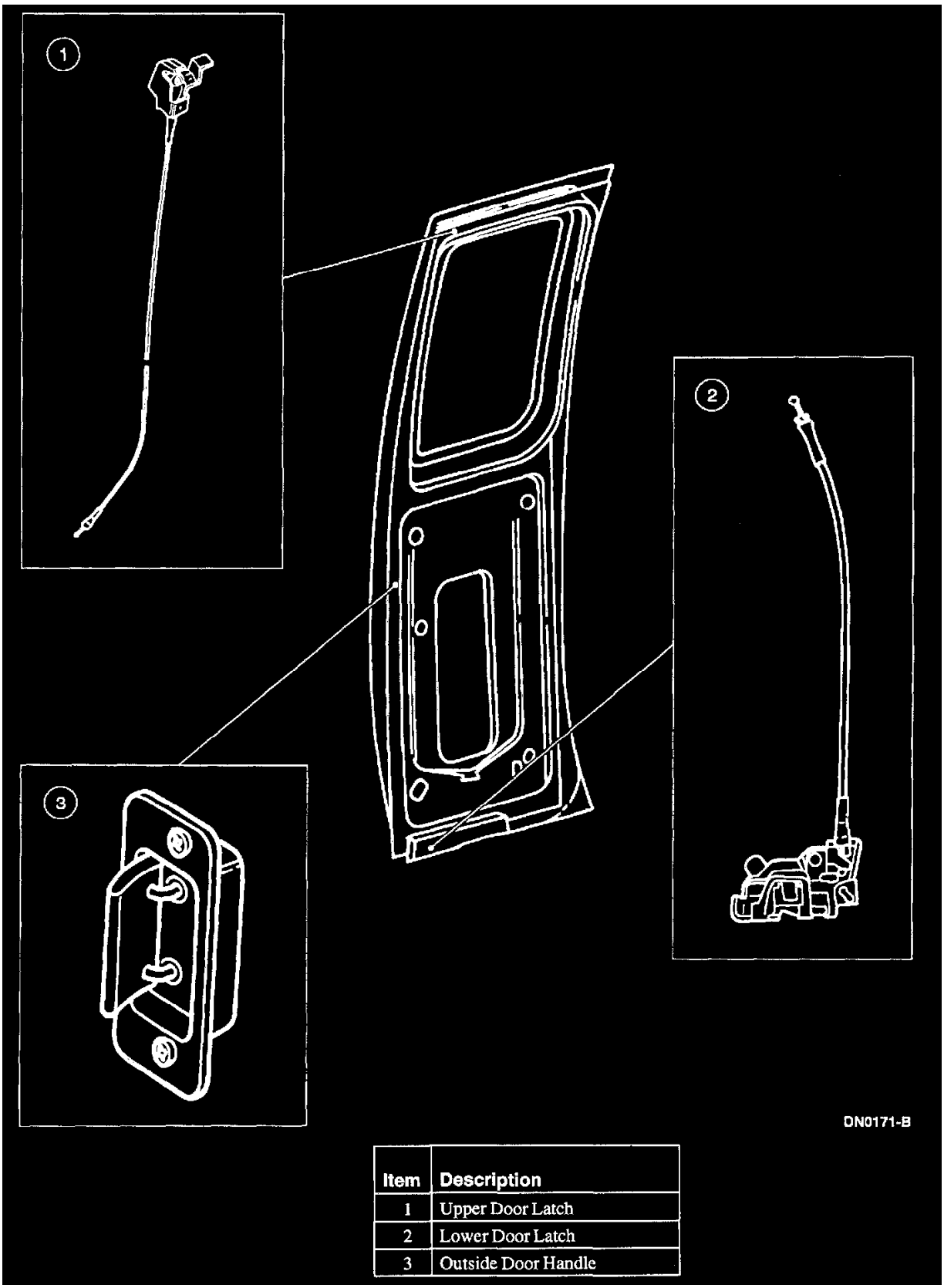


Item	Description
1	Upper Door Latch
2	Latch Remote Control
3	Door Handle

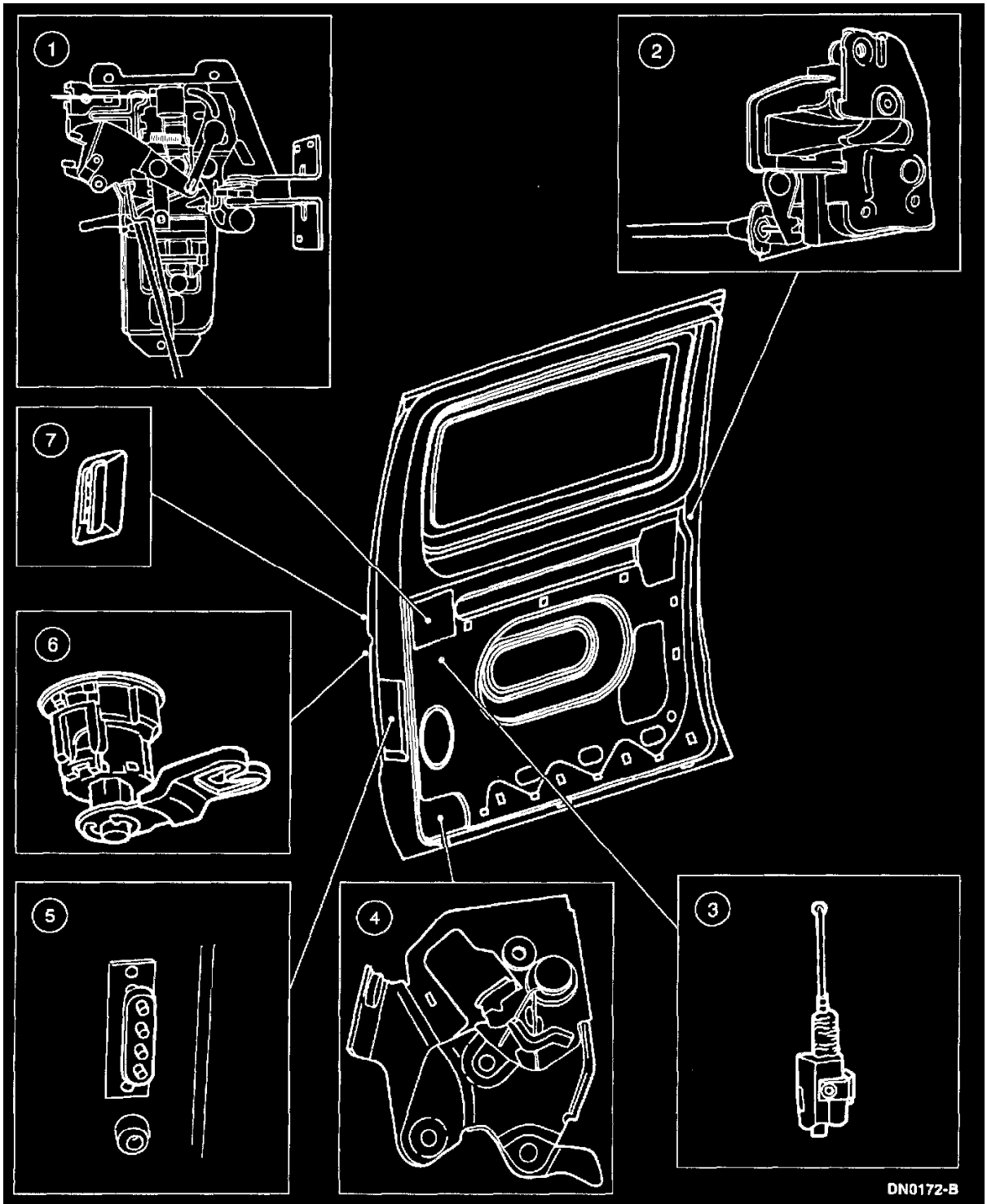


Item	Description
1	Latch Remote Control
2	Door Latch
3	Outside Door Handle

Item	Description
4	Lock Cylinder
5	Power Door Lock Actuator
6	Inside Door Handle

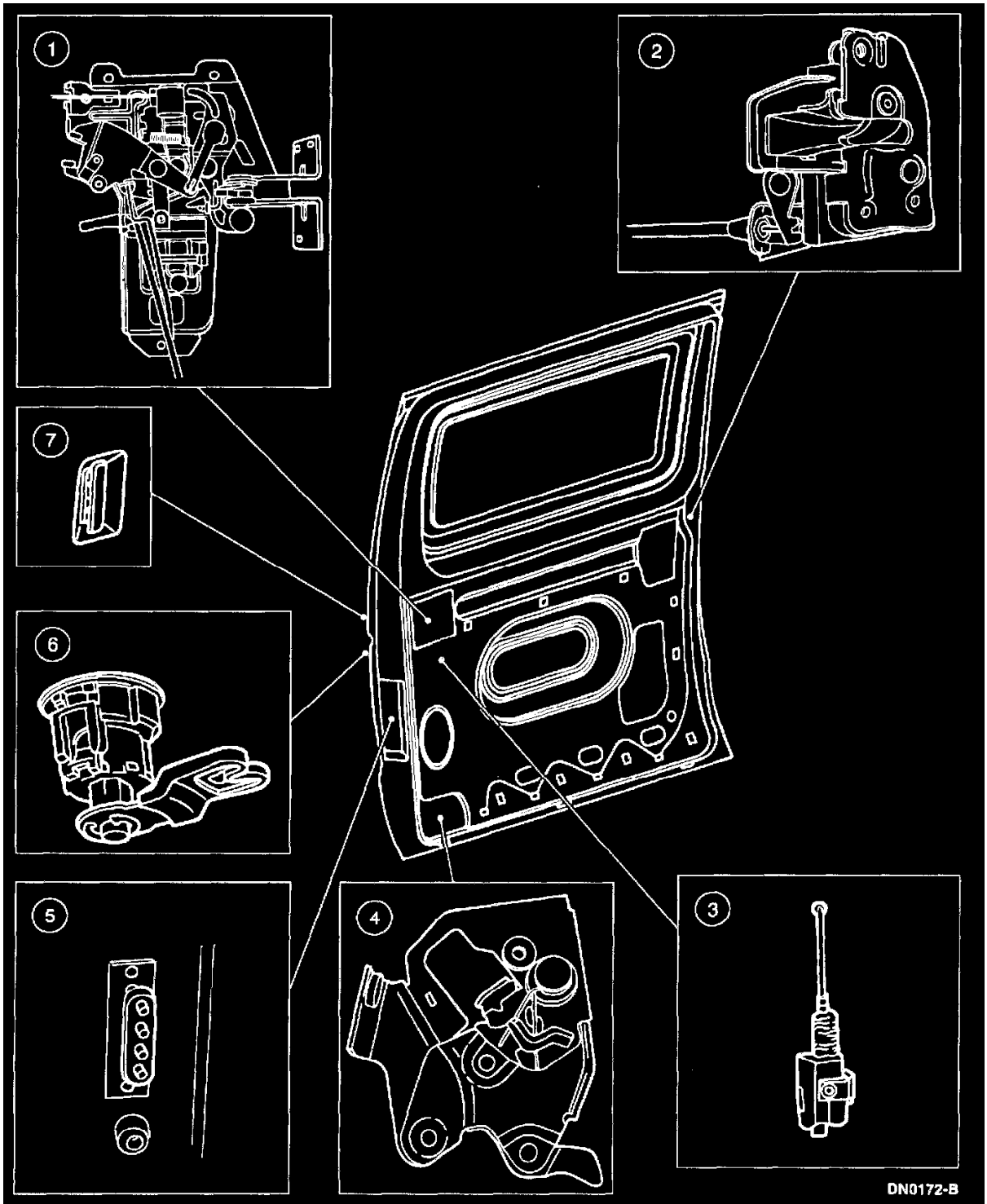


Item	Description
1	Upper Door Latch
2	Lower Door Latch
3	Outside Door Handle



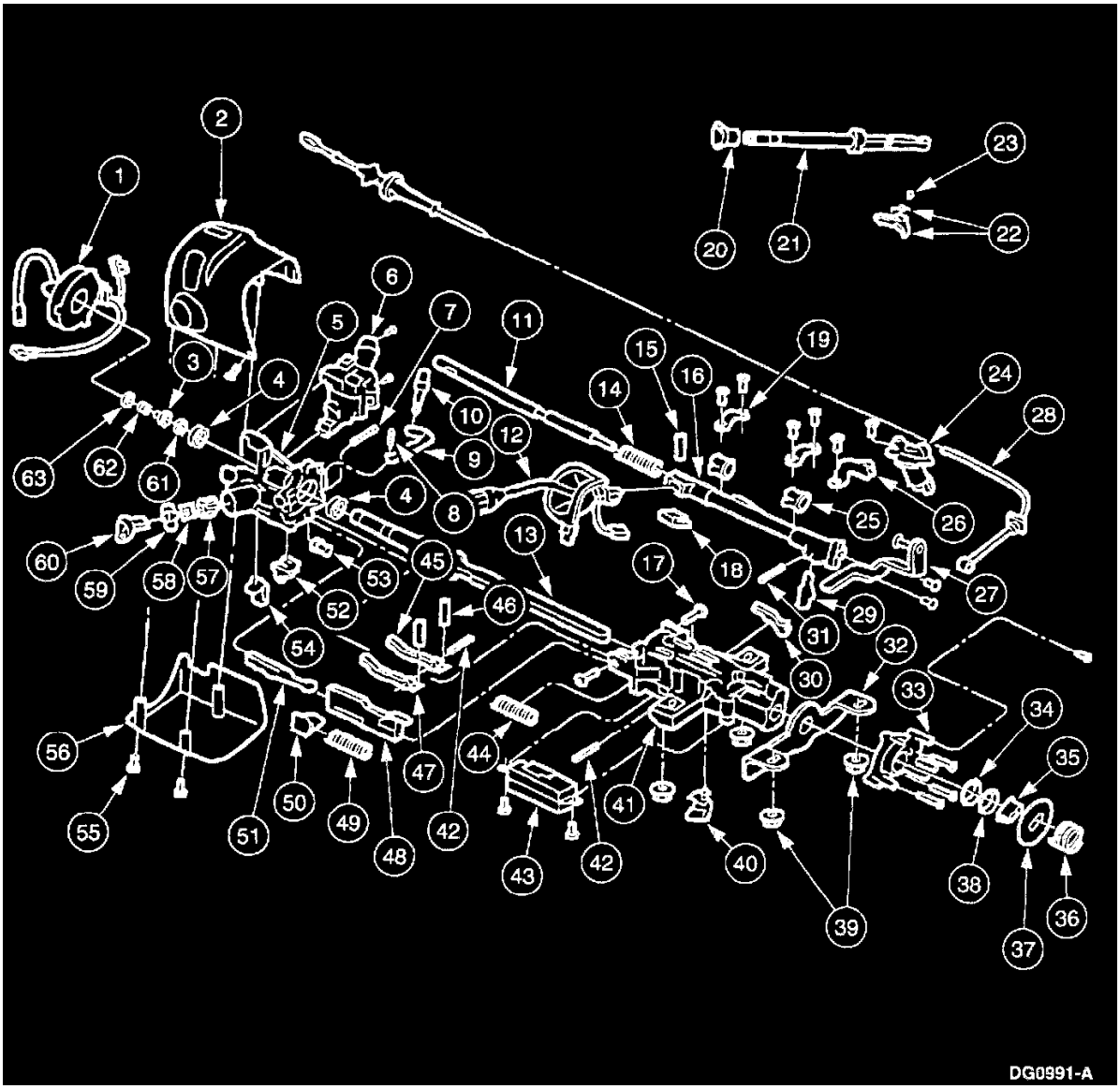
Item	Description
1	Latch Remote Control and Front Latch Assy
2	Rear Door Latch
3	Power Door Lock Actuator

Item	Description
4	Lower Door Latch
5	Sliding Door Contact Buttons
6	Lock Cylinder
7	Outside Door Handle



Item	Description
1	Latch Remote Control and Front Latch Assy
2	Rear Door Latch
3	Power Door Lock Actuator

Item	Description
4	Lower Door Latch
5	Sliding Door Contact Buttons
6	Lock Cylinder
7	Outside Door Handle



Part 1 Of 5

Item	Description
1	Air Bag Sliding Contact
2	Upper Steering Column Shroud
3	Steering Column Bearing Sleeve
4	Steering Column Bearing

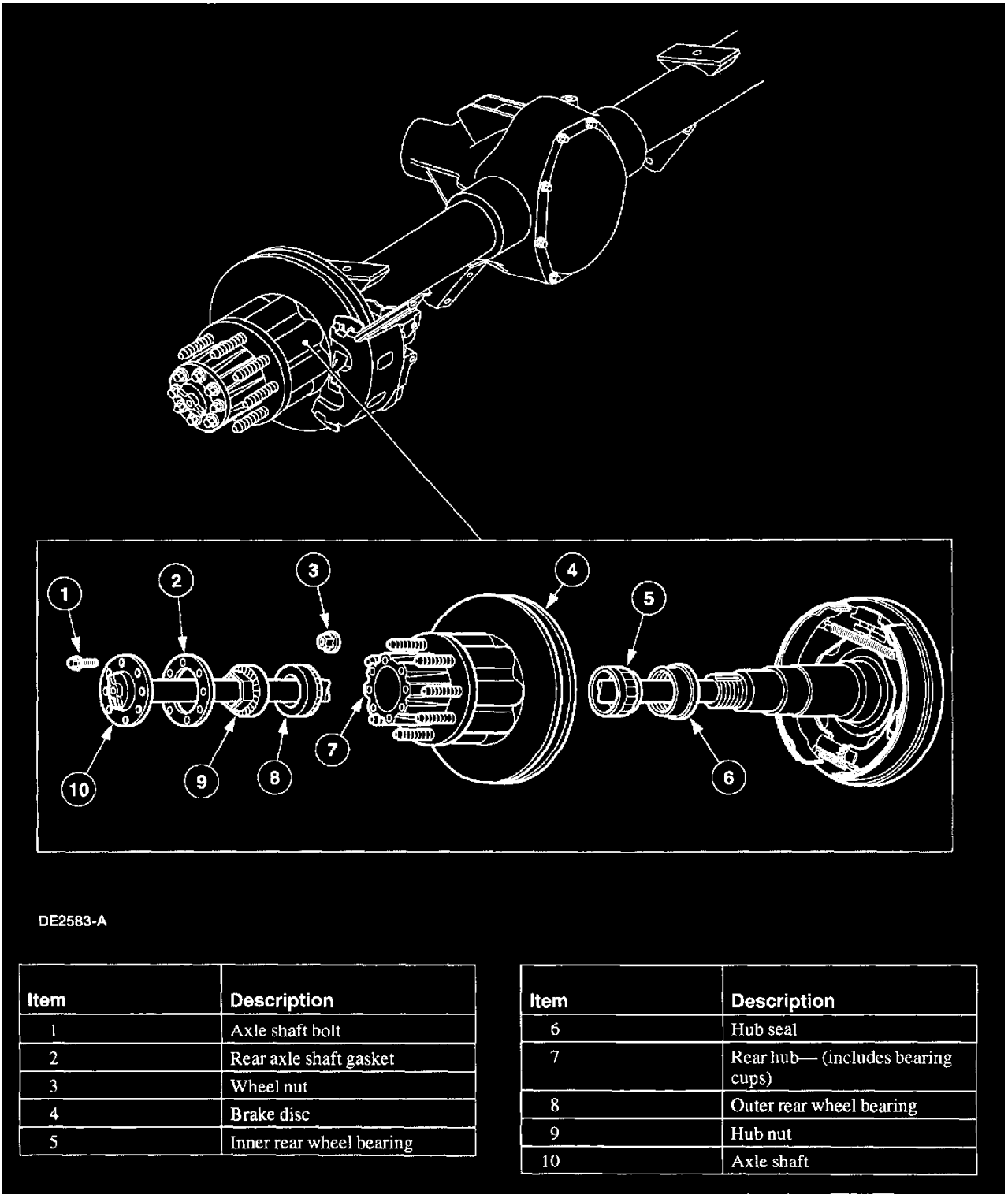
Part 2 Of 5

Item	Description
5	Steering Column Lock Cylinder Housing
6	Multi-Function Switch
7	Pin

Part 3 Of 5

Item	Description
8	Steering Column Release Lever Pin
9	Steering Column Release Lever
10	Tilt Wheel Handle and Shank
11	Column Shift Selector Lever Plunger
12	Gearshift Lever
13	Steering Column Shaft
14	Transmission Control Selector Lever Plunger Spring
15	Gearshift Lever Pin
16	Shift Tube
17	Tilt Column Pivot Screw
18	Transmission Control Selector Lever Spring Clip
19	Gearshift Tube Bushing Clamp
20	Spacer (Fixed Column)
21	Steering Shaft (Fixed Column)
22	Lever Assembly (Manual Transmission)
23	Pin (Manual Transmission)
24	Brake Shift Interlock Solenoid
25	Gearshift Lever Socket Bushing
26	Transmission Shift Selector Position Insert
27	Transmission Selector Lever Arm and Support
28	Shift Cable and Bracket
29	Gearshift Lever
30	Steering Column Lock Pawl
31	Gearshift Lever Pin
32	Steering Column Instrument Panel Bracket
33	Steering Column Lower Bearing Retainer
34	Steering Column Bearing Sleeve
35	Steering Column Bearing Tolerance Ring
36	Steering Column Lower Bearing Spring

Item	Description
37	Sensor Ring
38	Steering Column Bearing Sleeve
39	Steering Column Retaining Nuts
40	Wiring Harness Retainer
41	Steering Actuator Housing
42	Steering Column Lock Lever Pin
43	Ignition Switch
44	Steering Column Position Spring
45	Steering Column Lock Lever
46	Steering Column Position Lock Spring
47	Steering Column Locking Lever
48	Lower Steering Column Lock Actuator
49	Steering Column Lock Spring
50	Steering Column Lock Pawl
51	Upper Steering Column Lock Lever Actuator
52	Steering Column Lock Cam
53	Steering Column Tilt Flange Bumper
54	Wiring Harness Retainer
55	Shroud Screws
56	Lower Steering Column Shroud
57	Steering Column Lock Gear
58	Steering Column Lock Housing Bearing
59	Bearing Retainer
60	Ignition Switch Lock Cylinder
61	Steering Column Tolerance Ring
62	Steering Column Upper Bearing Spring
63	Snap Ring



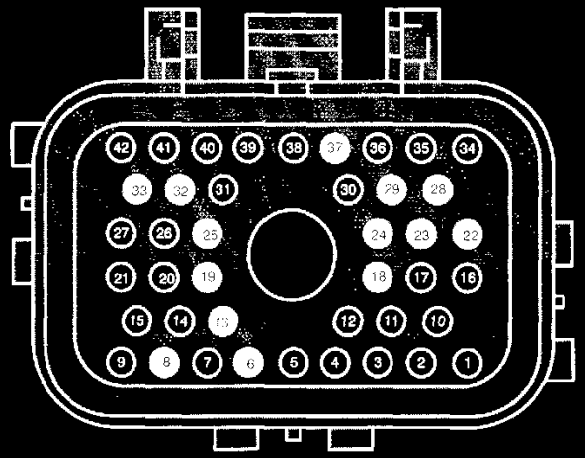
Item	Description
1	Axle shaft bolt
2	Rear axle shaft gasket
3	Wheel nut
4	Brake disc
5	Inner rear wheel bearing

Item	Description
6	Hub seal
7	Rear hub— (includes bearing cups)
8	Outer rear wheel bearing
9	Hub nut
10	Axle shaft

Wheel Hubs and Bearings

12A581

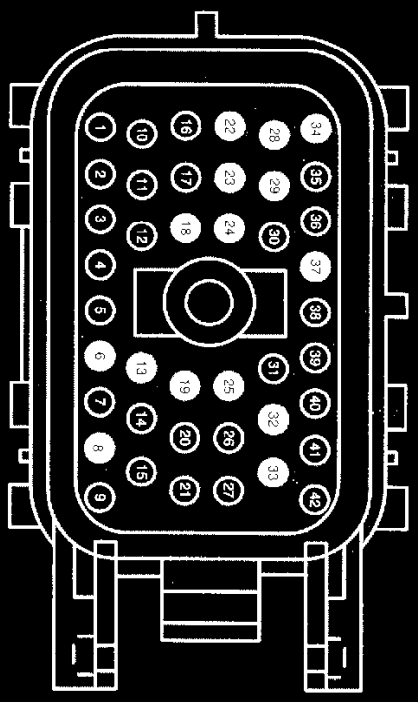
* 5.4L NGV
** 5.4L/6.8L



C100F

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	49 (OG)	15	91 (VT/WH)	29	–
2	787 (PK/BK)	16	514 (YE/RD)	30	651 (BK/YE)
3	29 (YE/WH)	17	516 (YE/BK)	31	64 (DG)
4	519 (LG/BK)	18	–	32	–
5	57 (BK)	19	–	33	–
6	–	20	*204 (OG/LG)	34	962 (BN/WH)
7	962 (BN/WH)	21	*141 (RD/BK)	35	351 (BN/WH)
8	–	22	–	36	52 (YE)
9	963 (BK/LG)	23	–	37	–
10	791 (RD/PK)	24	–	38	**359 (GY/RD)
11	359 (GY/RD)	25	–	39	**361 (RD)
12	523 (RD/VT)	26	521 (TN/OG)	40	**389 (WH/BK)
13	–	27	522 (TN/BK)	41	**392 (RD/LG)
14	361 (RD)	28	–	42	**43 (DB)

14406



* 5.4L NGV

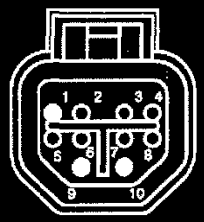
C100M

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	49 (OG)	15	91 (VT/WH)	29	–
2	787 (PK/BK)	16	514 (YE/RD)	30	651 (BK/YE)
3	29 (YE/WH)	17	516 (YE/BK)	31	64 (DG)
4	519 (LG/BK)	18	–	32	–
5	57 (BK)	19	–	33	–
6	–	20	*204 (OG/LG)	34	–
7	962 (BN/WH)	21	*141 (RD/PK)	35	351 (BN/WH)
8	–	22	–	36	52 (YE)
9	963 (BK/LG)	23	–	37	–
10	791 (RD/PK)	24	–	38	359 (GY/RD)
11	359 (GY/RD)	25	–	39	361 (RD)
12	523 (RD/VT)	26	521 (TN/OG)	40	389 (WH/BK)
13	–	27	522 (TN/BK)	41	392 (RD/LG)
14	361 (RD)	28	–	42	43 (DB)



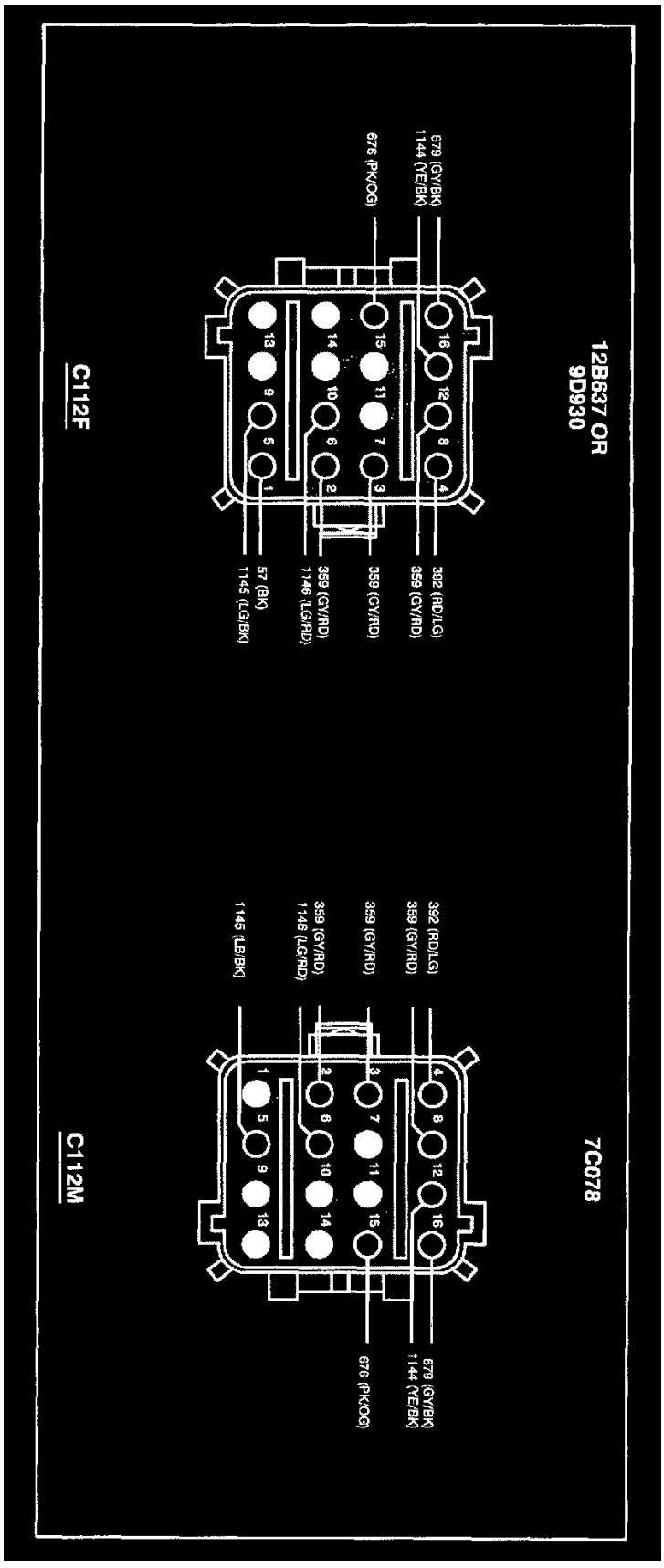
C108
VEHICLE SPEED SENSOR (VSS)

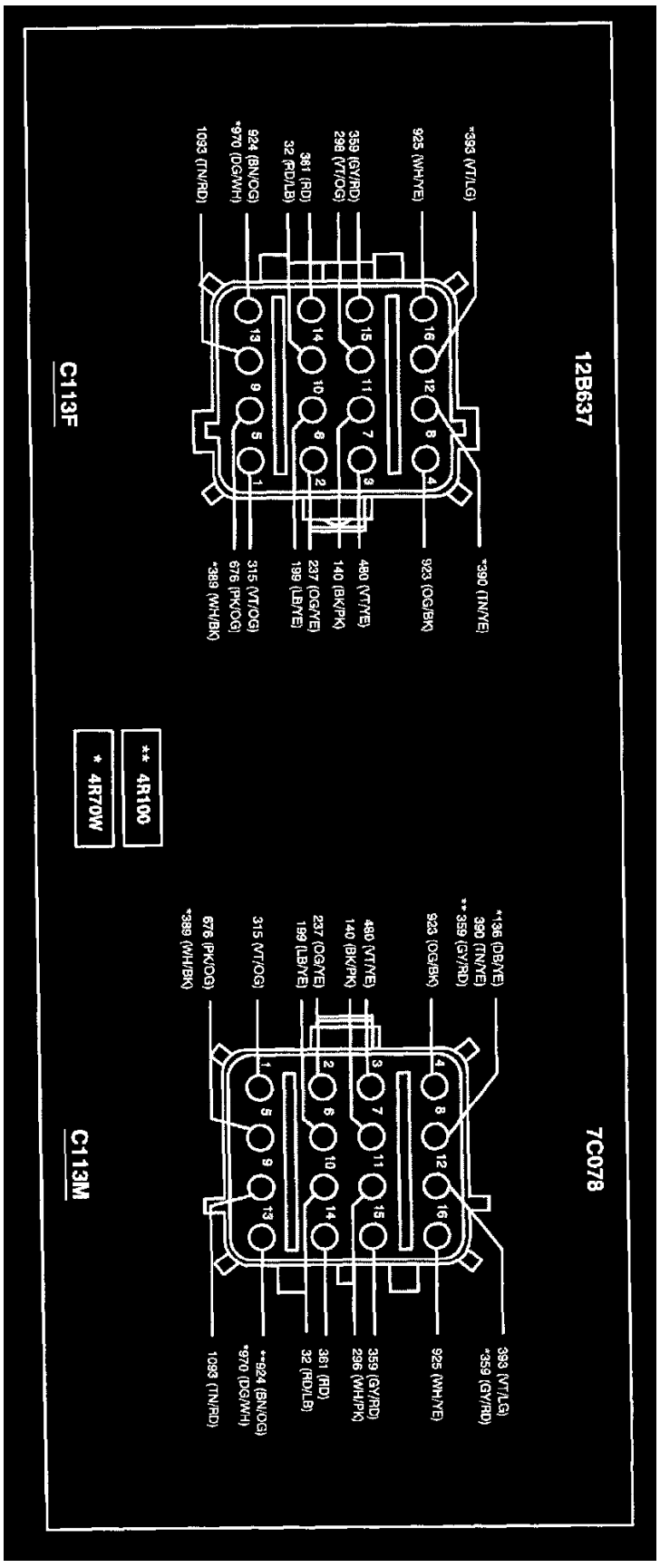
PIN	CIRCUIT	CIRCUIT FUNCTION
1	676 (PK/OG)	Signal Return
2	679 (GY/BK)	Vehicle Speed Sensor (VSS) to Powertrain Control Module (PCM)

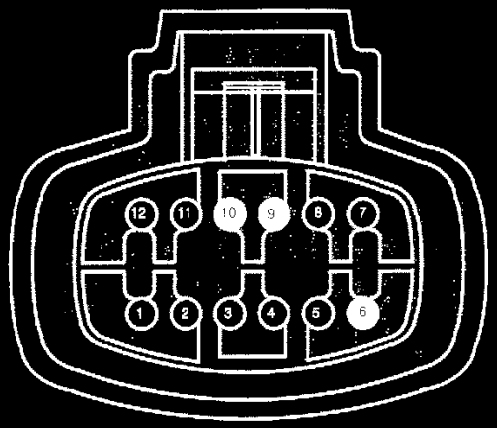


C110
4R70W TRANSMISSION

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	480 (VT/YE)	Torque Converter Clutch (TCC) Solenoid
4	361 (RD)	Vehicle Power
5	923 (OG/BK)	Transmission Fluid Temperature (TFT) Input
6	925 (WH/YE)	Electronic Pressure Control (EPC) Solenoid
7	237 (OG/YE)	Shift Solenoid A
8	315 (VT/OG)	Shift Solenoid B
9	–	NOT USED
10	–	NOT USED


12B637 OR
9D930
C112F
679 (GY/BK)
1144 (YE/BK)
676 (PK/OG)
392 (RD/LG)
359 (GY/RD)
359 (GY/RD)
359 (GY/RD)
1146 (LG/RD)
57 (BK)
1145 (LG/BK)
7C078
C112M
392 (RD/LG)
359 (GY/RD)
359 (GY/RD)
359 (GY/RD)
1146 (LG/RD)
1145 (LB/BK)
679 (GY/BK)
1144 (YE/BK)
676 (PK/OG)

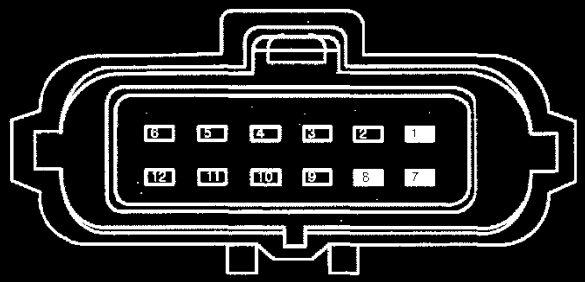

12B637
C113F
*395 (VT/LG)
925 (WH/YE)
359 (GY/RD)
296 (VT/OG)
361 (RD)
32 (RD/LB)
924 (BN/OG)
*970 (DG/WH)
1093 (TN/RD)
*390 (TN/YE)
923 (OG/BK)
480 (VT/YE)
140 (BK/PK)
237 (OG/YE)
199 (LB/YE)
315 (VT/OG)
676 (PK/OG)
*389 (WH/BK)
** 4R100
* 4R70W
7C078
C113M
*136 (DB/YE)
390 (TN/YE)
** 359 (GY/RD)
923 (OG/BK)
480 (VT/YE)
140 (BK/PK)
237 (OG/YE)
199 (LB/YE)
315 (VT/OG)
676 (PK/OG)
*389 (WH/BK)
393 (VT/LG)
*359 (GY/RD)
925 (WH/YE)
359 (GY/RD)
296 (WH/PK)
361 (RD)
32 (RD/LB)
**924 (BN/OG)
*970 (DG/WH)
1093 (TN/RD)



C114
4R100 TRANSMISSION

PIN	CIRCUIT	CIRCUIT FUNCTION
1	361 (RD)	Power Feed From PCM Power Relay
2	315 (VT/OG)	Shift Solenoid #2
3	237 (OG/YE)	Shift Solenoid #1
4	480 (VT/YE)	Torque Converter Clutch (TCC) Solenoid
5	924 (BN/OG)	Coast Clutch Solenoid
6	–	NOT USED
7	923 (OG/BK)	Transmission Fluid Temperature (TFT) Sensor
8	359 (GY/RD)	Sensor Signal Return
9	–	NOT USED
10	–	NOT USED
11	925 (WH/YE)	Electronic Pressure Control (EPC)
12	361 (RD)	Power Feed From PCM Power Relay

4R70W

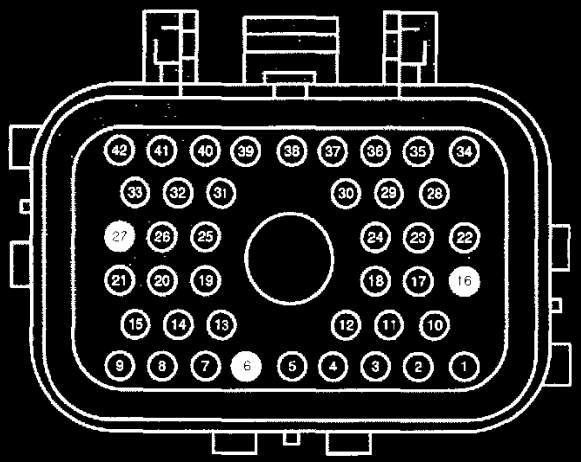


C115
DIGITAL TRANSMISSION RANGE (DTR) SENSOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	199 (LB/YE)	TR3A Signal to PCM
4	1144 (WH/YE)	TR1 Signal to PCM
5	1145 (DB/WH)	TR2 Signal to PCM
6	1146 (LG/RD)	TR4 Signal to PCM
7	–	NOT USED
8	–	NOT USED
9	298 (VT/OG)	Fused Power Feed (Hot in Run)
10	32 (RD/LB)	Starter Relay Enable
11	140 (BK/PK)	Reversing Lamp Output (Hot in Reverse)
12	1093 (TN/RD)	Start Signal from Steering Column/ Ignition/Lighting Control Module

12B637

* 5.4L NGV
** 4.6L/4.2L
*** 6.8L

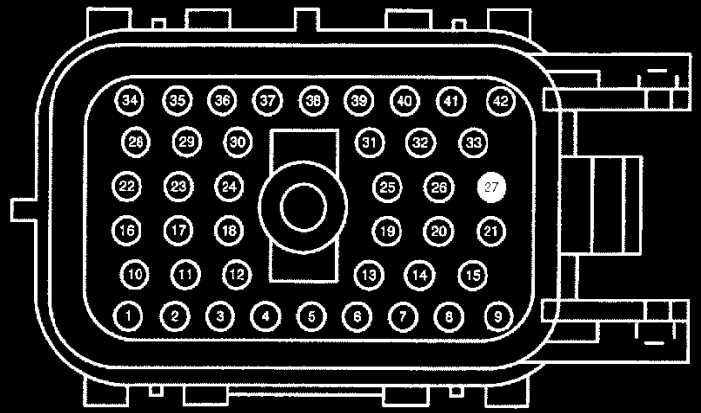


C116F

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	57 (BK)	17	**1023 (DB/LG)	32	*1028 (WH/PK), **527 (RD/LB),
2	39 (RD/WH), *787 (PK/BK)	18	359 (GY/RD)		***1026 (PK/WH)
3	***1100 (GY/BK)	19	560 (LG/OG)	33	*1027 (PK/LB), **528 (PK/WH),
4	***1101 (GY/RD)	20	561 (TN/RD)		***1023 (DB/LG)
5	1102 (YE/LG)	21	562 (LB)	34	16 (RD/LG)
6	–	22	350 (GY)	35	875 (BK/LB)
7	555 (TN)	23	795 (DG)	36	310 (YE/RD)
8	556 (WH)	24	***1146 (LG/RD), **570 (BK/LH)	37	**311 (DG/VT)
9	361 (RD)	25	31 (WH/RD)	38	360 (BN/PK)
10	**1022 (DB/YE)	26	*1024(LG/WH), **526 (DB/LG)	39	264 (WH/LB)
11	355 (GY/WH)	27	–	40	***1145 (LB/BK), *1164 (LB)
12	351 (BN/WH)	28	349 (DB)	41	*1026 (PK/WH), **529(RD/YE),
13	557 (BN/YE)	29	796 (LB)		***1024 (LG/WH)
14	558 (BN/LB)	30	352 (BN/LG)	42	296 (WH/PK)
15	559 (TN/BK)	31	45 (YE/RD), *141 (RD/PK)		
16	–				

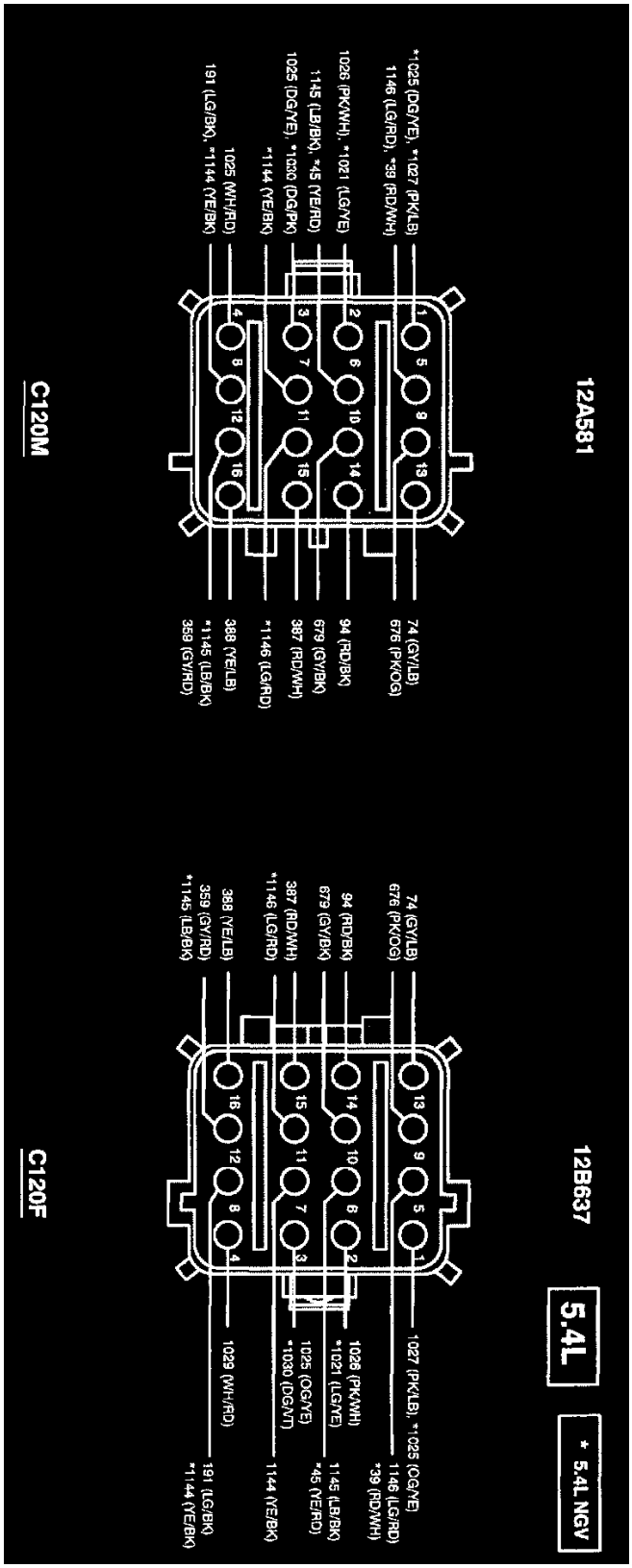
12A581

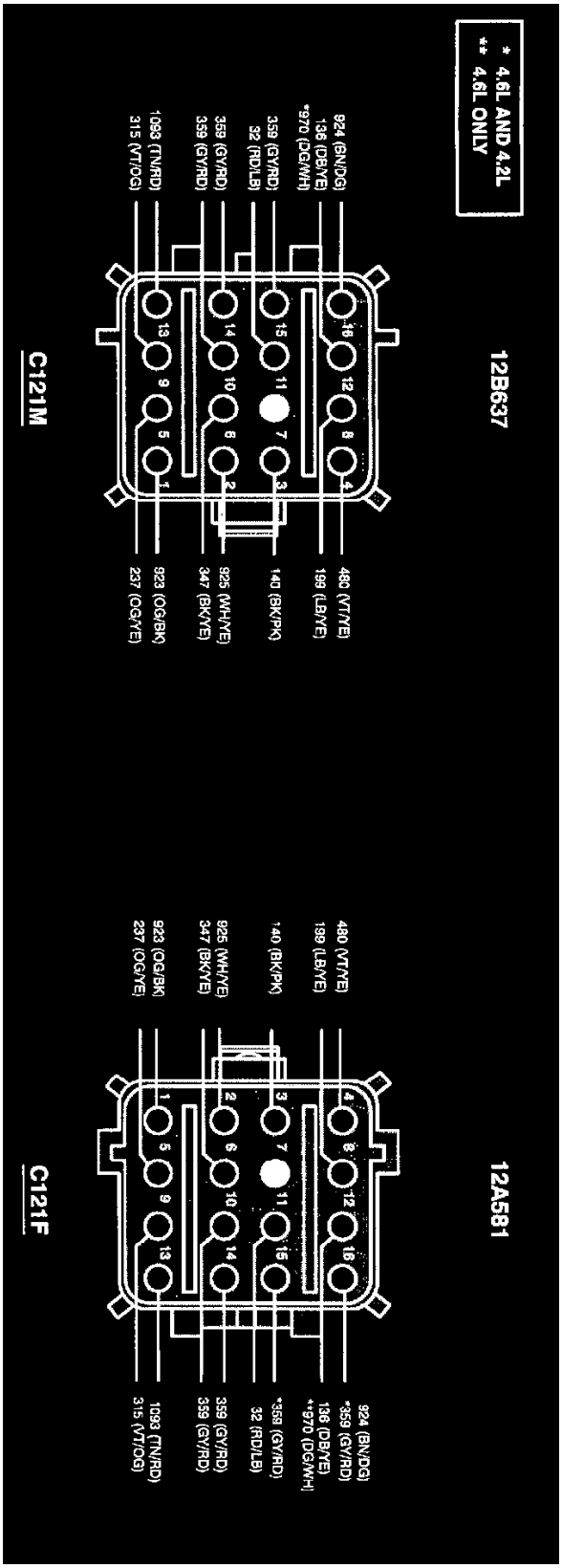
* 5.4L NGV
** 4.2L/4.6L
*** 6.8L

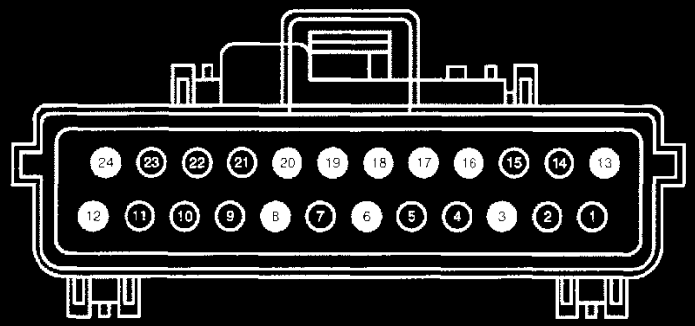


C116M

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	57 (BK)	16	354 (LG/RD)	31	45 (YE/RD), *141 (RD/PK)
2	39 (RD/WH), *787 (PK/BK)	17	367 (BN), **1023 (DB/LG)	32	1026 (PK/WH), **527 (RD/LB),
3	***1100 (GY/BK)	18	359 (GY/RD)		**1024 (LG/WH), **1028 (WH/PK)
4	***1101 (GY/RD)	19	560 (LG/OG)	33	1027 (PK/LB), **528 (PK/WH),
5	1102 (YE/LG)	20	561 (TN/RD)		1028 (WH/PK)
6	*200 (BN)	21	562 (LB)	34	16 (RD/LG)
7	555 (TN)	22	350 (GY)	35	875 (BK/LB)
8	556 (WH)	23	795 (DG)	36	310 (YE/RD)
9	361 (RD)	24	1146 (LG/RD), **570 (BK/WH)	37	311 (DG/VT)
10	**1022 (DB/YE)	25	31 (WH/RD)	38	360 (BN/PK)
11	355 (GY/WH)	26	1024 (LG/WH) **526 (DB/LG)	39	264 (WH/LB)
12	351 (BN/WH)	27	–	40	***1145 (LB/BK), *1164 (LB)
13	557 (BN/YE)	28	349 (DB)	41	*1026 (PK/WH), **529 (RD/YE),
14	558 (BN/LB)	29	796 (LB)		***1024 (LG/WH)
15	559 (TN/BK)	30	352 (BN/LG)	42	296 (WH/PK)

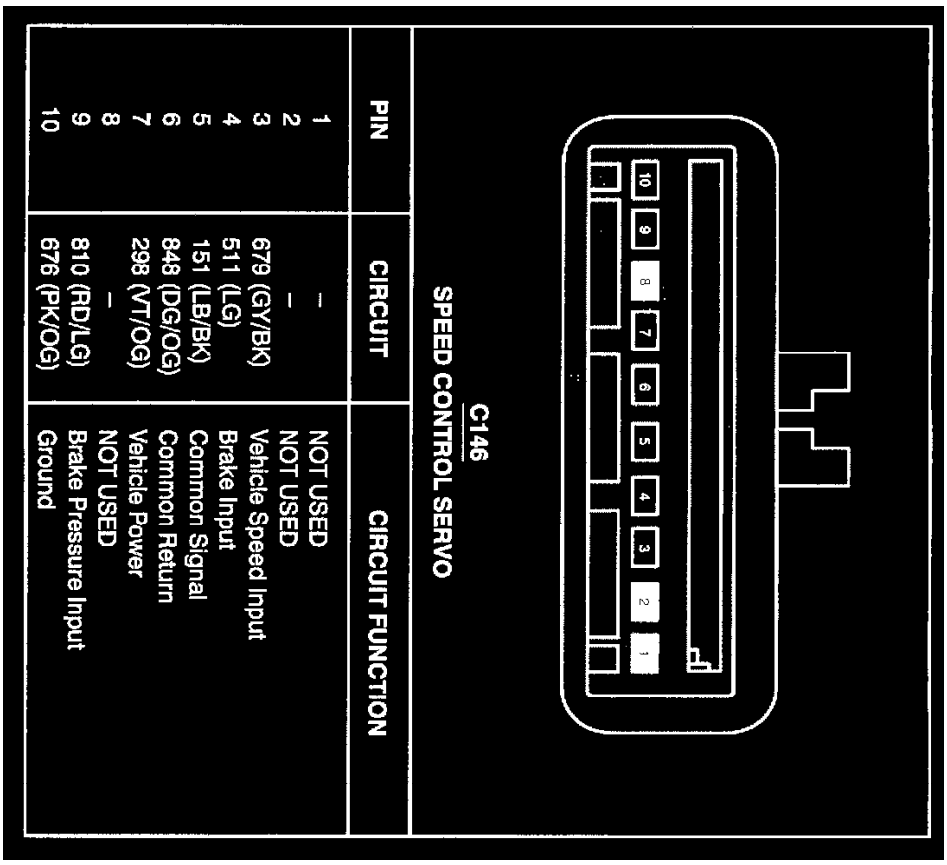

12A581
C120M
*1025 (DG/YE), *1027 (PK/LB)
1146 (LG/RD), *39 (RD/WH)
1026 (PK/WH), *1021 (LG/YE)
1145 (LB/BK), *45 (YE/RD)
1025 (DG/YE), *1030 (DG/PK)
*1144 (YE/BK)
1025 (WH/RD)
191 (LG/BK), *1144 (YE/BK)
74 (GY/LB)
676 (PK/OG)
94 (RD/BK)
679 (GY/BK)
387 (RD/WH)
*1146 (LG/RD)
368 (YE/LB)
*1145 (LB/BK)
359 (GY/RD)
12B637
5.4L
* 5.4L NGV
C120F
74 (GY/LB)
676 (PK/OG)
94 (RD/BK)
679 (GY/BK)
387 (RD/WH)
*1146 (LG/RD)
368 (YE/LB)
359 (GY/RD)
*1145 (LB/BK)
1027 (PK/LB), *1025 (OG/YE)
1026 (PK/WH)
*1021 (LG/YE)
1025 (OG/YE)
*1030 (DG/VT)
1029 (WH/RD)
1146 (LG/RD)
*39 (RD/WH)
1145 (LB/BK)
*45 (YE/RD)
1144 (YE/BK)
191 (LG/BK)
*1144 (YE/BK)


* 4.6L AND 4.2L
** 4.6L ONLY
12B637
924 (BN/DG)
136 (DB/YE)
*970 (DG/WH)
339 (GY/RD)
32 (RD/LB)
359 (GY/RD)
359 (GY/RD)
1093 (TN/RD)
315 (VT/OG)
480 (VT/YE)
199 (LB/YE)
140 (BK/PK)
925 (WH/YE)
347 (BK/YE)
923 (OG/BK)
237 (OG/YE)
C121M
12A581
480 (VT/YE)
199 (LB/YE)
140 (BK/PK)
925 (WH/YE)
347 (BK/YE)
923 (OG/BK)
237 (OG/YE)
924 (BN/DG)
*359 (GY/RD)
136 (DB/YE)
**970 (DG/WH)
*358 (GY/RD)
32 (RD/LB)
359 (GY/RD)
359 (GY/RD)
1093 (TN/RD)
315 (VT/OG)
C121F



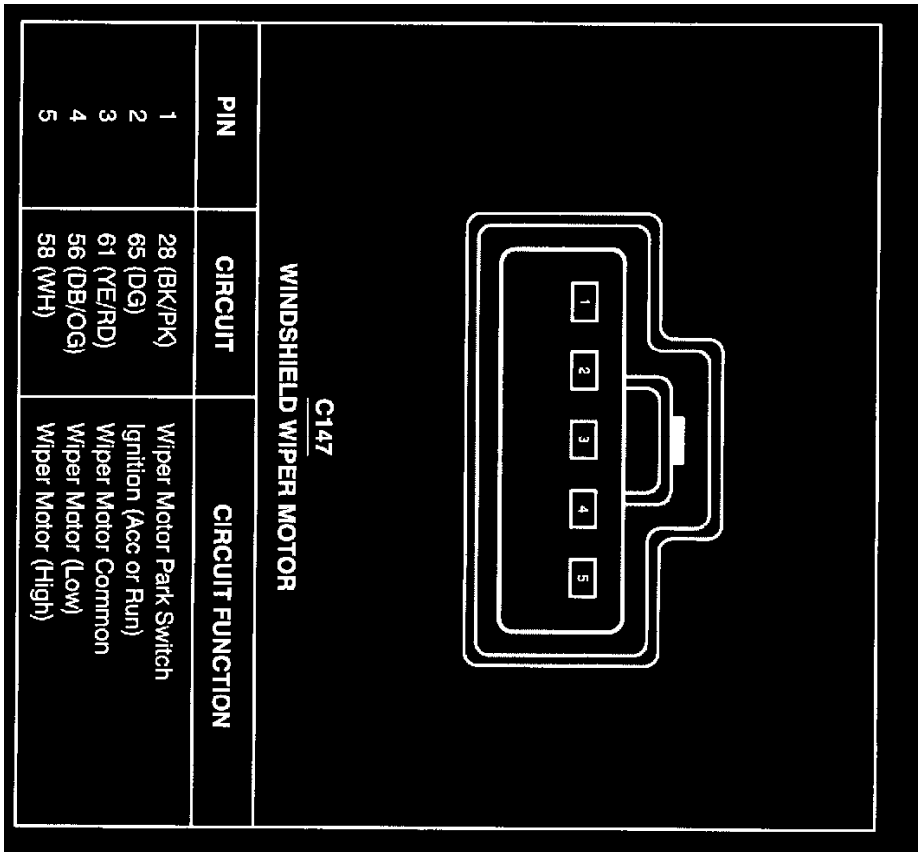
C144
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	603 (DG)	ABS Indicator Control	13	–	NOT USED
2	599 (PK/LG)	Relay Control Output	14	601 (LB/PK)	Power (Hot in Run)
3	–	NOT USED	15	511 (LG)	Brake Pedal Position Switch Input
4	128 (VT/YE)	Brake Warning Lamp High	16	–	NOT USED
5	70 (LB/WH)	ISO Link (Diagnostic Data Link)	17	–	NOT USED
6	–	NOT USED	18	–	NOT USED
7	512 (TN/LG)	Brake Warning Lamp Low	19	–	NOT USED
8	–	NOT USED	20	–	NOT USED
9	523 (RD/PK)	Rear Sensor High	21	519 (LG/BK)	Rear Sensor Low
10	514 (YE/RD)	Right Front Sensor High	22	516 (YE/BK)	Right Front Sensor Low
11	521 (TN/OG)	Left Front Sensor High	23	522 (TN/BK)	Left Front Sensor Low
12	–	NOT USED	24	–	NOT USED



C146
SPEED CONTROL SERVO

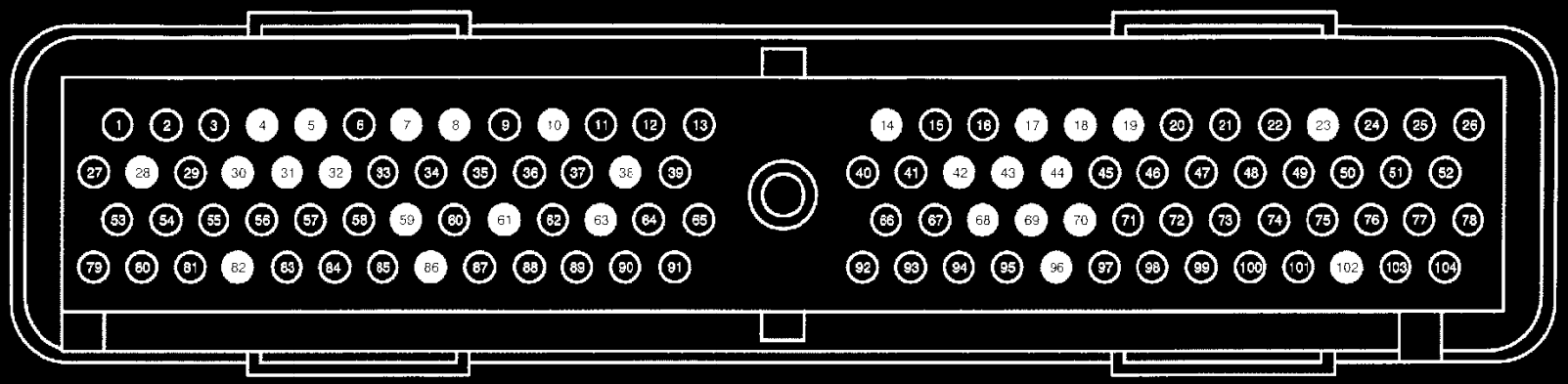
PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	—	NOT USED
3	679 (GY/BK)	Vehicle Speed Input
4	511 (LG)	Brake Input
5	151 (LB/BK)	Common Signal
6	848 (DG/OG)	Common Return
7	298 (VT/OG)	Vehicle Power
8	—	NOT USED
9	810 (RD/LG)	Brake Pressure Input
10	676 (PK/OG)	Ground



C147
WINDSHIELD WIPER MOTOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1	28 (BK/PK)	Wiper Motor Park Switch
2	65 (DG)	Ignition (Acc or Run)
3	61 (YE/RD)	Wiper Motor Common
4	56 (DB/OG)	Wiper Motor (Low)
5	58 (WH)	Wiper Motor (High)

C154



C154
POWERTRAIN CONTROL MODULE (PCM)

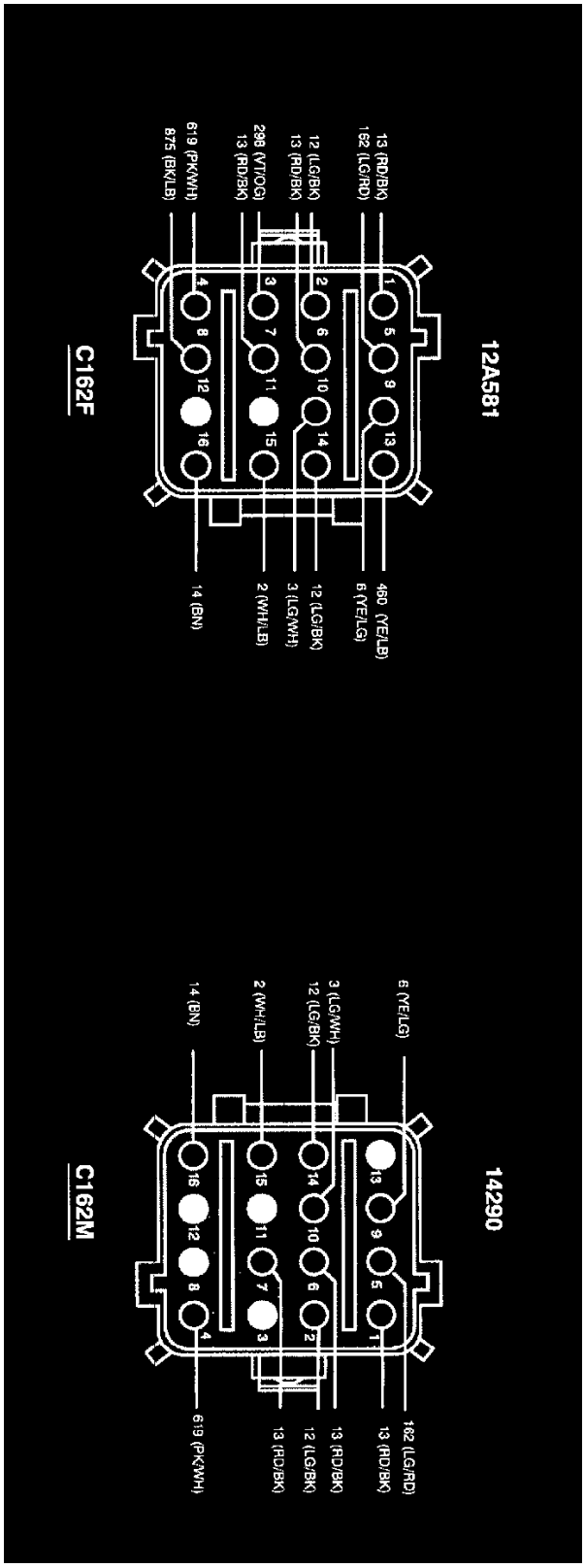
5.4L

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	1027 (PK/LB)	#6 Coil On Plug	17	–	NOT USED
2	658 (PK/LG)	MIL Lamp Control	18	–	NOT USED
3	570 (BK/WH)	Ground	19	–	NOT USED
4	–	NOT USED	20	924 (BN/OG)	Coast Clutch Solenoid
5	–	NOT USED	21	349 (DB)	Crankshaft Position Sensor (+)
6	237 (OG/YE)	Shift Solenoid #1	22	350 (GY)	Crankshaft Position Sensor (–)
7	–	NOT USED	23	–	NOT USED
8	–	NOT USED	24	570 (BK/WH)	Ground
9	29 (YE/WH)	Fuel Pump Sender	25	875 (BK/LB))	Ground
10	–	NOT USED	26	1022 (DB/YE)	#1 Coil On Plug
11	315 (VT/OG)	Shift Solenoid #2	27	1026 (PK/WH)	#5 Coil On Plug
12	911 (WH/LG)	Transmission Control Switch	28	–	NOT USED
13	107 (VT)	Generic Scan Tool Input	29	224 (TN/WH)	Transmission Control Switch
14	–	NOT USED	30	–	NOT USED
15	915 (PK/LB)	Bus –	31	–	NOT USED
16	914 (TN/OG)	Bus +	32	–	NOT USED

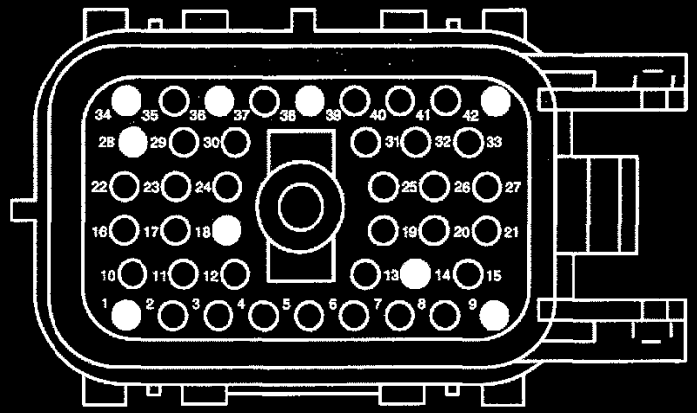
PIN	CIRCUIT	CIRCUIT FUNCTION
33	676 (PK/OG)	Vehicle Speed Sensor (VSS) Ground
34	1144 (YE/BK)	Digital Transmission Range (DTR) Sensor (TR1)
35	392 (RD/LG)	Heated Oxygen Sensor (HO2S) #12
36	968 (TN/LB)	Mass Air Flow (MAF) Sensor Return
37	923 (OG/BK)	Transmission Fluid Temperature Sensor
38	–	NOT USED
39	743 (GY)	Intake Air Temperature Input
40	238 (DG/YE)	Fuel Pump Monitor
41	347 (BK/YE)	A/C ON Input Signal
42	–	NOT USED
43	–	NOT USED
44	–	NOT USED
45	1105 (YE/LB)	Engine Coolant Temperature Sensor
46	367 (BN)	Inlet Air Control Sensor
47	360 (BN/PK)	Exhaust Gas Recirculation (EGR) Solenoid
48	648 (WH/PK)	NOT USED
49	1145 (LB/BK)	Digital Transmission Range (DTR) Sensor (TR2)
50	1146 (LG/RD)	Digital Transmission Range (DTR) Sensor (TR4)
51	570 (BK/WH)	Ground
52	1024 (LG/WH)	#3 Coil On Plug
53	1025 (OG/YE)	#4 Coil On Plug
54	480 (VT/YE)	Torque Converter Clutch (TCC) Solenoid
55	37 (YE)	Keep Alive Power Input
56	191 (LG/BK)	EVAP Canister Purge Valve
57	310 (YE/RD)	Knock Sensor (KS)
58	679 (GY/BK)	Vehicle Speed Sensor (VSS)
59	–	NOT USED
60	74 (GY/LB)	HEGO #11
61	–	NOT USED

PIN	CIRCUIT	CIRCUIT FUNCTION
62	791 (RD/PK)	Fuel Tank Pressure Transducer
63	–	NOT USED
64	199 (LB/YE)	Digital Transmission Range (DTR) Sensor (TR3A)
65	352 (BN/LG)	Delta Pressure Feedback EGR (DPFE) Sensor
66	1102 (YE/LG)	Cylinder Head Temperature Sensor
67	91 (VT/WH)	Evaporative Emissions (EVAP) Canister Purge Valve
68	–	NOT USED
69	–	NOT USED
70	–	NOT USED
71	361 (RD)	Power Input
72	561 (TN/RD)	Fuel Injector #7
73	559 (TN/BK)	Fuel Injector #5
74	557 (BN/YE)	Fuel Injector #3
75	555 (TN)	Fuel Injector #1
76	570 (BK/WH)	Ground
77	570 (BK/WH)	Ground
78	1028 (WH/PK)	#7 Coil On Plug
79	1029 (WH/RD)	#8 Coil On Plug
80	926 (LB/OG)	Fuel Pump Relay Control
81	925 (WH/YE)	Electronic Pressure Control (EPC) Solenoid
82	–	NOT USED
83	264 (WH/LB)	Idle Air Control (IAC) Valve
84	136 (DB/YE)	Output Shaft Speed Sensor (OSS)
85	795 (DG)	Camshaft Position Sensor
86	–	NOT USED
87	94 (RD/BK)	HEGO #21
88	967 (LB/RD)	Mass Air Flow (MAF) Sensor
89	355 (GY/WH)	Throttle Position (TP) Sensor
90	351 (BN/WH)	Reference Output Voltage
91	359 (GY/RD)	Sensor Signal Return

PIN	CIRCUIT	CIRCUIT FUNCTION
92	511 (LG)	Brake Pedal Position Switch Input
93	387 (RD/WH)	HEGO #11 Voltage Monitor
94	388 (YE/LB)	HEGO #21 Voltage Monitor
95	389 (WH/BK)	HEGO #12 Voltage Monitor
96	–	NOT USED
97	361 (RD)	Power Input
98	562 (LB)	Fuel Injector #8
99	560 (LG/OG)	Fuel Injector #6
100	558 (BN/LG)	Fuel Injector #4
101	556 (WH)	Fuel Injector #2
102	–	NOT USED
103	570 (BK/WH)	Ground
104	1023 (DB/LB)	#2 Coil On Plug


12A581
C162F
13 (RD/BK)
162 (LG/RD)
12 (LG/BK)
13 (RD/BK)
298 (VT/OG)
13 (RD/BK)
619 (PK/WH)
875 (BK/LB)
460 (YE/LB)
6 (YE/LG)
12 (LG/BK)
3 (LG/WH)
2 (WH/LB)
14 (BN)
14290
C162M
6 (YE/LG)
3 (LG/WH)
12 (LG/BK)
2 (WH/LB)
14 (BN)
162 (LG/RD)
13 (RD/BK)
13 (RD/BK)
12 (LG/BK)
13 (RD/BK)
619 (PK/WH)

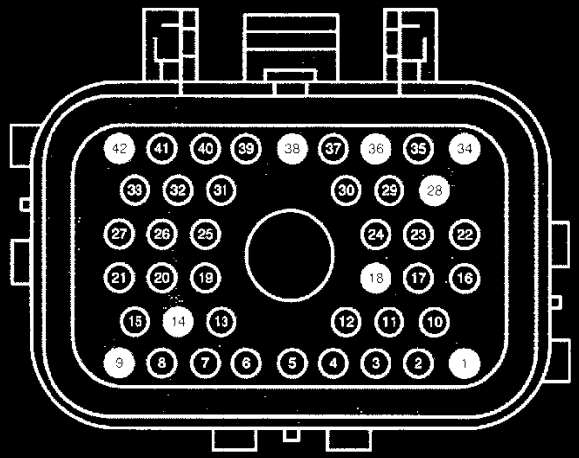
12A581



C166M

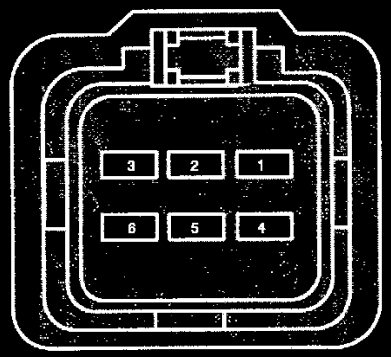
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	–	16	570 (BK/WH)	31	39 (RD/WH)
2	555 (TN)	17	354 (LG/RD)	32	3996 (RD/YE)
3	556 (WH)	18	–	33	796 (LB)
4	561 (TN/RD)	19	359 (GY/RD)	34	–
5	557 (BN/YE)	20	553 (VT/LB)	35	16 (RD/LG)
6	558 (BN/LB)	21	351 (BN/WH)	36	–
7	559 (TN/BK)	22	812 (DB/LG)	37	1280 (GY/RD)
8	560 (LG/OG)	23	318 (GY/RD)	38	–
9	–	24	361 (RD)	39	795 (DG)
10	562 (LB)	25	552 (YE/RD)	40	1279 (WH)
11	878 (PK/YE)	26	462 (PK)	41	1278 (WH/VT)
12	1087 (OG)	27	1277 (WH/LG)	42	–
13	1086 (PK/OG)	28	–		
14	–	29	45 (YE/RD)		
15	875 (BK/LB)	30	31 (WH/RD)		

9D930



C166F

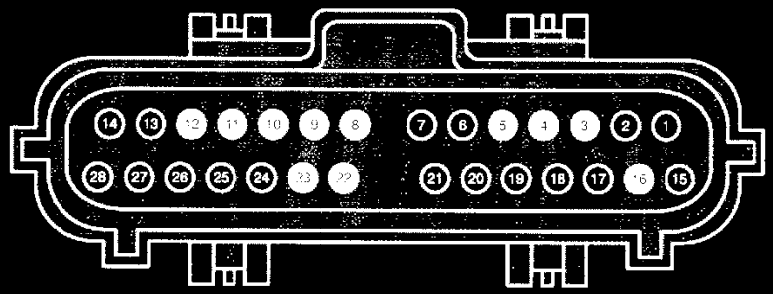
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	–	16	570 (BK/WH)	31	39 (RD/WH)
2	555 (TN)	17	354 (LG/RD)	32	3996 (RD/YE)
3	556 (WH)	18	–	33	796 (LB)
4	561 (TN/RD)	19	359 (GY/RD)	34	–
5	557 (BN/YE)	20	553 (VT/LB)	35	16 (RD/LG)
6	558 (BN/LB)	21	351 (BN/WH)	36	–
7	559 (TN/BK)	22	812 (DB/LG)	37	1280 (GY/RD)
8	560 (LG/OG)	23	318 (GY/RD)	38	–
9	–	24	361 (RD)	39	795 (DG)
10	562 (LB)	25	552 (YE/RD)	40	1279 (WH)
11	878 (PK/YE)	26	462 (PK)	41	1278 (WH/VT)
12	1087 (OG)	27	1277 (WH/LG)	42	–
13	1086 (PK/OG)	28	–		
14	–	29	45 (YE/RD)		
15	875 (BK/LB)	30	31 (WH/RD)		



C193

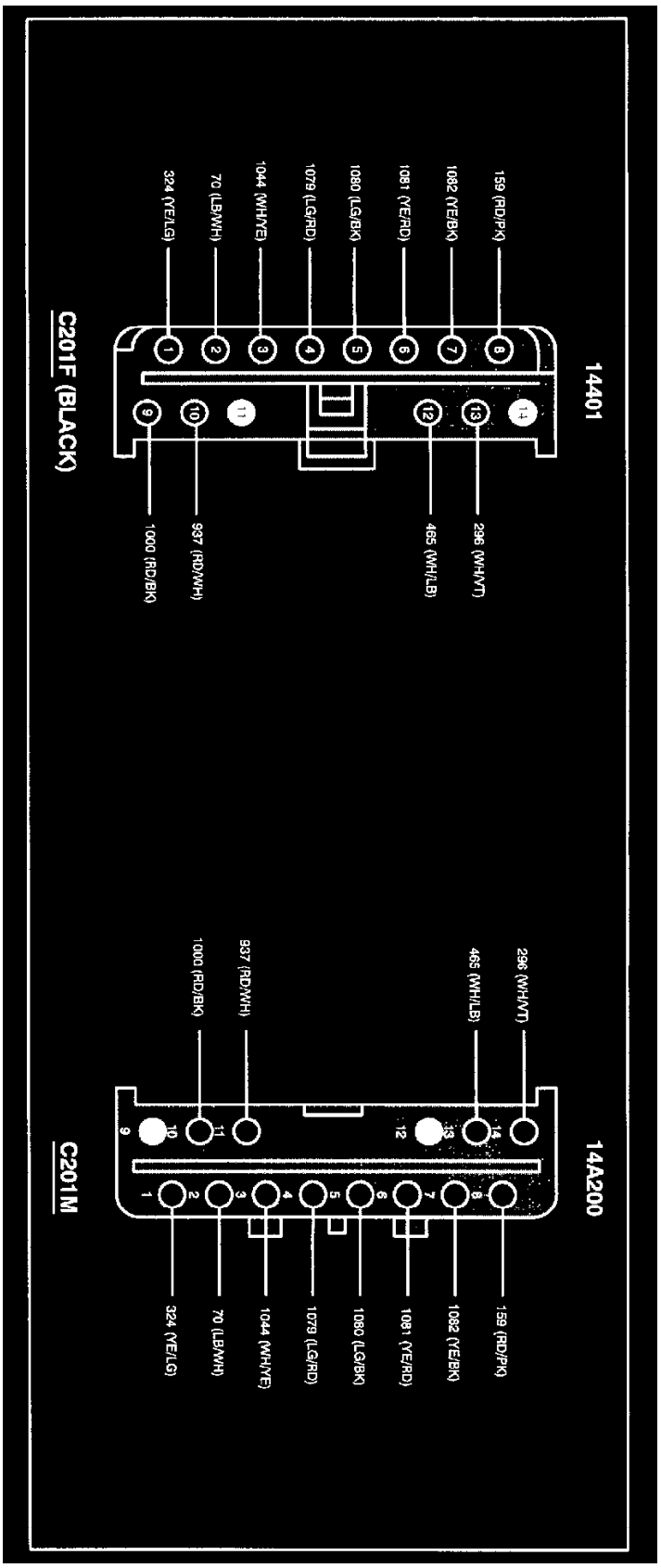
DAYTIME RUNNING LAMPS (DRL) MODULE

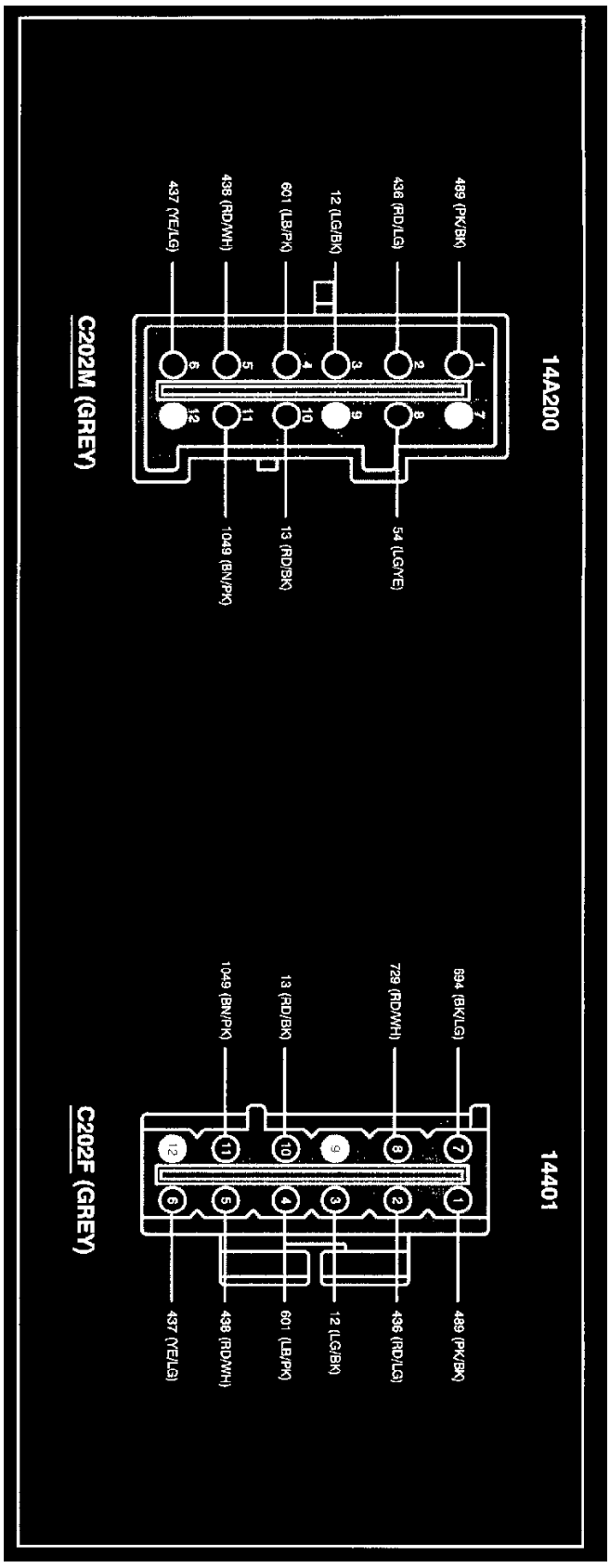
PIN	CIRCUIT	CIRCUIT FUNCTION
1	13 (RD/BK)	Pulse Voltage to Low
2	460 (YE/LB)	Power (Hot at All Times)
3	298 (VT/OG)	Power (Hot in Run)
4	875 (BK/LB)	Ground
5	12 (LG/LB)	High Beam Input
6	162 (LG/RD)	Parking Brake Input

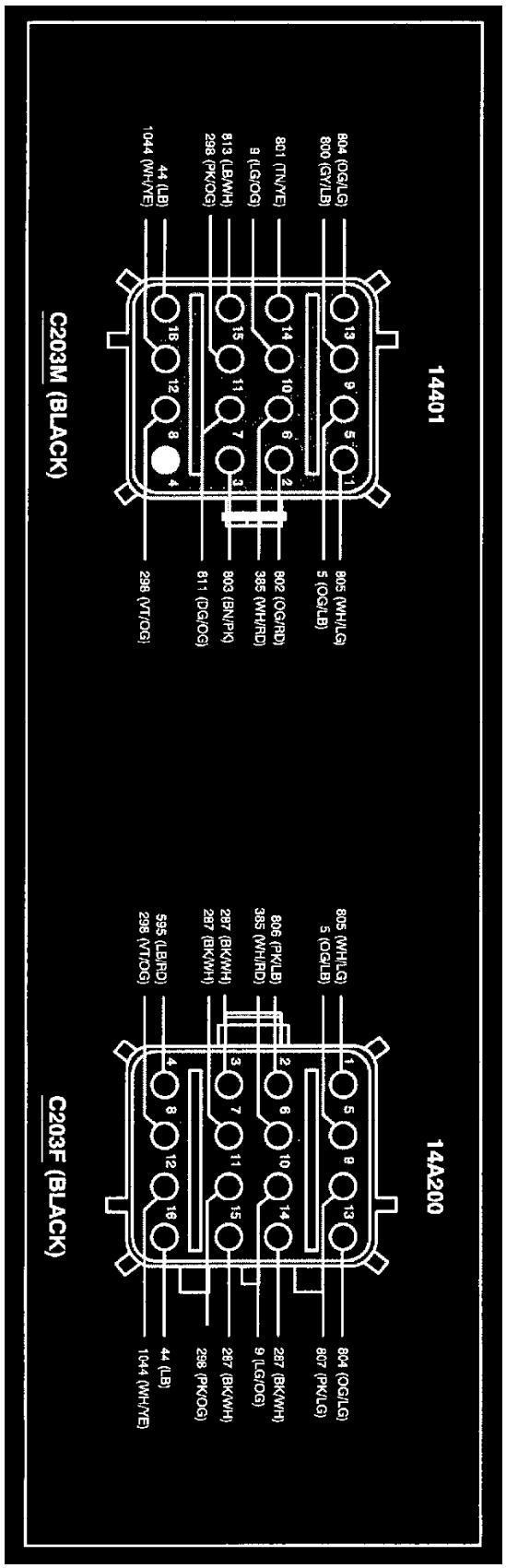


C200 (GRAY)
ELECTRONIC CRASH SENSOR (ECS) MODULE

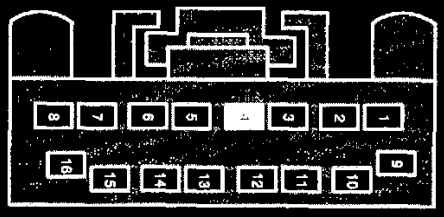
PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	614 (GY/OG)	Driver Air Bag	15	615 (GY/WH)	Driver Air Bag
2	298 (VT/OG)	Power (Hot in Run)	16	–	NOT USED
3	–	NOT USED	17	937 (RD/WH)	Power (Hot at All Times)
4	–	NOT USED	18	875 (BK/LB)	Ground
5	–	NOT USED	19	70 (LB/WH)	Data Link Connector (DLC)
6	619 (PK/WH)	Center Air Bag Sensor	20	1084 (PK)	Air Bag Bracket
7	608 (BK/YE)	Air Bag Indicator	21	875 (BK/LB)	Ground
8	–	NOT USED	22	–	NOT USED
9	–	NOT USED	23	–	NOT USED
10	–	NOT USED	24	1079 (LG/RD)	Pretensioner Feed (Driver)
11	–	NOT USED	25	1080 (LG/BK)	Pretensioner Return (Driver)
12	–	NOT USED	26	1081 (YE/RD)	Pretensioner Return (Passenger)
13	159 (RD/PK)	Courtesy Lamp/Warning Buzzer	27	1082 (YE/BK)	Pretensioner Feed (Passenger)
14	607 (LB/OG)	Passenger Air Bag	28	616 (PK/BK)	Passenger Air Bag


14401
C201F (BLACK)
159 (RD/PK)
1082 (YE/BK)
1081 (YE/RD)
1080 (LG/BK)
1079 (LG/RD)
1044 (WH/YE)
70 (LB/WH)
324 (YE/LG)
1000 (RD/BK)
937 (RD/WH)
465 (WH/LB)
296 (WH/VT)
14A200
C201M
296 (WH/VT)
465 (WH/LB)
937 (RD/WH)
1000 (RD/BK)
159 (RD/PK)
1082 (YE/BK)
1081 (YE/RD)
1080 (LG/BK)
1079 (LG/RD)
1044 (WH/YE)
70 (LB/WH)
324 (YE/LG)


14A200
489 (PK/BK)
436 (RD/LG)
12 (LG/BK)
601 (LB/PK)
438 (RD/WH)
437 (YE/LG)
C202M (GREY)
54 (LG/YE)
13 (RD/BK)
1049 (BN/PK)
14401
694 (BK/LG)
729 (RD/WH)
13 (RD/BK)
1049 (BN/PK)
C202F (GREY)
489 (PK/BK)
436 (RD/LG)
12 (LG/BK)
601 (LB/PK)
438 (RD/WH)
437 (YE/LG)

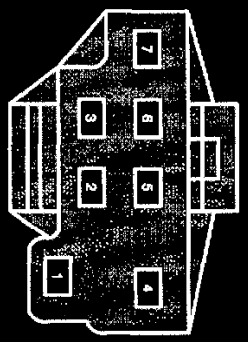

14401
804 (OG/LG)
800 (GY/LB)
801 (TN/YE)
9 (LG/OG)
813 (LB/WH)
296 (PK/OG)
44 (LB)
1044 (WH/YE)
805 (WH/LG)
5 (OG/LB)
802 (OG/RD)
395 (WH/RD)
803 (BN/PK)
811 (DG/OG)
296 (VT/OG)
C203M (BLACK)
14A200
805 (WH/LG)
5 (OG/LB)
806 (PK/LB)
395 (WH/RD)
287 (BK/WH)
287 (BK/WH)
595 (LB/RD)
296 (VT/OG)
804 (OG/LG)
807 (PK/LG)
287 (BK/WH)
9 (LG/OG)
287 (BK/WH)
296 (PK/OG)
44 (LB)
1044 (WH/YE)
C203F (BLACK)

C213
RADIO

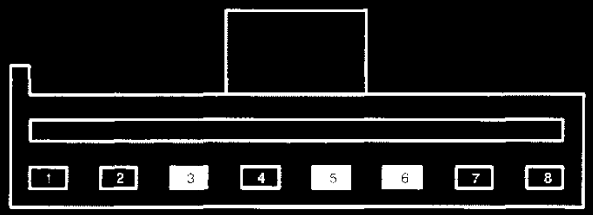


PIN	CIRCUIT	CIRCUIT FUNCTION
1	19 (LB/RD)	Illumination
2	57 (BK)	Ground
3	1000 (RD/BK)	Noise Reduction
4	—	NOT USED
5	802 (OG/RD)	RH Rear Speaker/Mid
6	803 (BN/PK)	RH Rear Speaker/Mid
7	805 (WH/LG)	Right Front Door Speaker
8	811 (DG/OG)	Right Front Door Speaker
9	729 (RD/WH)	Memory Power
10	137 (YE/BK)	Power
11	694 (BK/LG)	Ground
12	800 (YE/LB)	LH Rear Speaker/Mid
13	801 (TN/YE)	LH Rear Speaker/Mid
14	804 (OG/LG)	Left Front Door Speaker
15	813 (LB/WH)	Left Front Door Speaker
16	694 (BK/LG)	Ground

C214
WARNING BUZZER MODULE



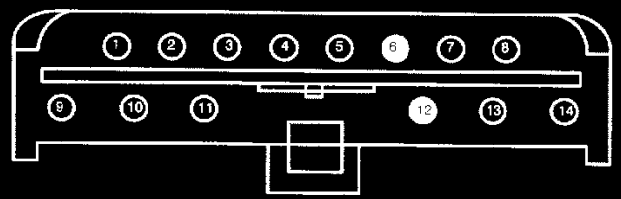
PIN	CIRCUIT	CIRCUIT FUNCTION
1	14 (BN)	Headlamps ON Input
2	159 (RD/BK)	Driver Door Open Input
3	85 (BN/LB)	Safety Belt Input
4	158 (BK/PK)	Key-In-Ignition Input
5	57 (BK)	Ground
6	450 (DG/LG)	Safety Belt Indicator Input
7	640 (RD/YE)	Ignition (Run or Start)



C215

ILLUMINATED ENTRY MODULE

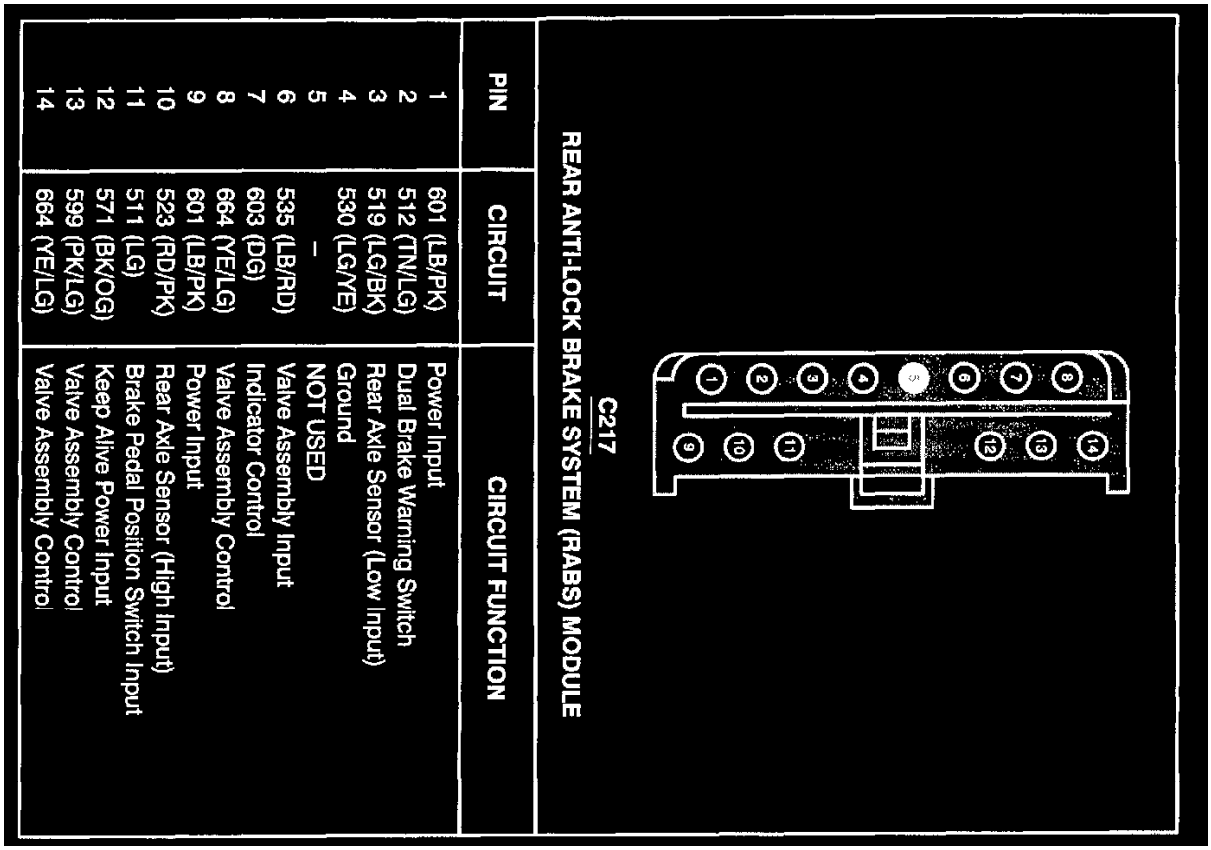
PIN	CIRCUIT	CIRCUIT FUNCTION
1	875 (BK/LB)	Ground
2	465 (WH/LB)	Door Handle Switch Input
3	–	NOT USED
4	53 (BK/LB)	Courtesy Lamp Control
5	–	NOT USED
6	–	NOT USED
7	296 (WH/VT)	Power (Hot in Run)
8	54 (LG/YE)	Power (Hot at All Times)



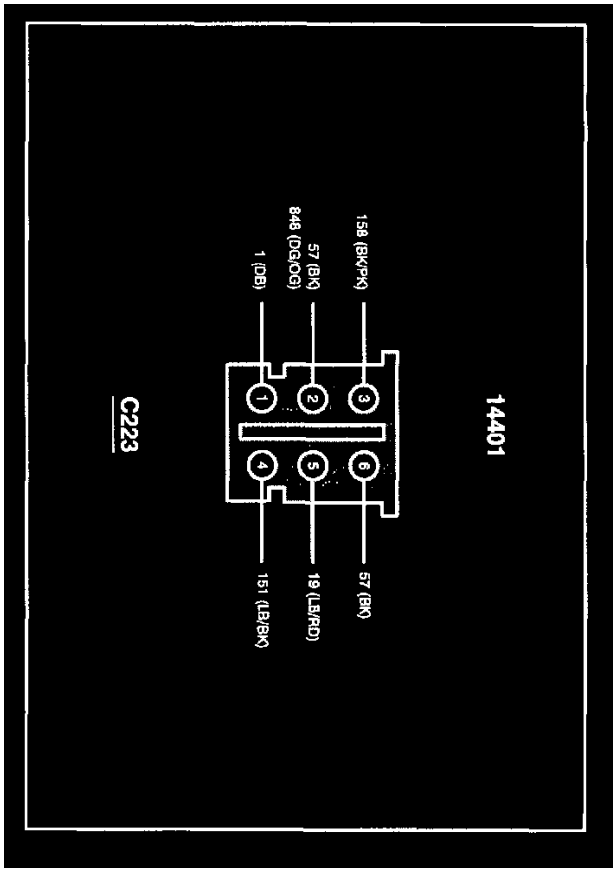
C216

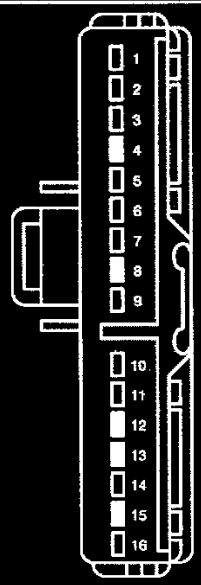
WIPER CONTROL MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	589 (OG)	Multifunction Switch (Wiper Mode)
2	65 (DG)	Power (Hot in Acc or Run)
3	875 (BK/LB)	Ground
4	941 (BK/WH)	Windshield Washer Pump
5	875 (BK/LB)	Ground
6	–	NOT USED
7	993 (BN/WH)	Multifunction Switch (Common)
8	56 (DB/OG)	Wiper Motor - Low Speed
9	590 (DB/WH)	Multifunction Switch (Internal Control)
10	61 (YE/RD)	Wiper Motor - Common
11	65 (DG)	Power (Hot in Acc or Run)
12	–	NOT USED
13	28 (BK/PK)	Wiper Motor Park Switch
14	58 (WH)	Wiper Motor - High Speed



PIN	CIRCUIT	CIRCUIT FUNCTION
1	601 (LB/PK)	Power Input
2	512 (TN/LG)	Dual Brake Warning Switch
3	519 (LG/BK)	Rear Axle Sensor (Low Input)
4	530 (LG/YE)	Ground
5	–	NOT USED
6	535 (LB/RD)	Valve Assembly Input
7	603 (DG)	Indicator Control
8	664 (YE/LG)	Valve Assembly Control
9	601 (LB/PK)	Power Input
10	523 (RD/PK)	Rear Axle Sensor (High Input)
11	511 (LG)	Brake Pedal Position Switch Input
12	571 (BK/OG)	Keep Alive Power Input
13	599 (PK/LG)	Valve Assembly Control
14	664 (YE/LG)	Valve Assembly Control

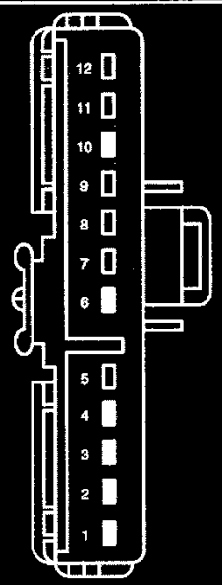




C224

INSTRUMENT CLUSTER

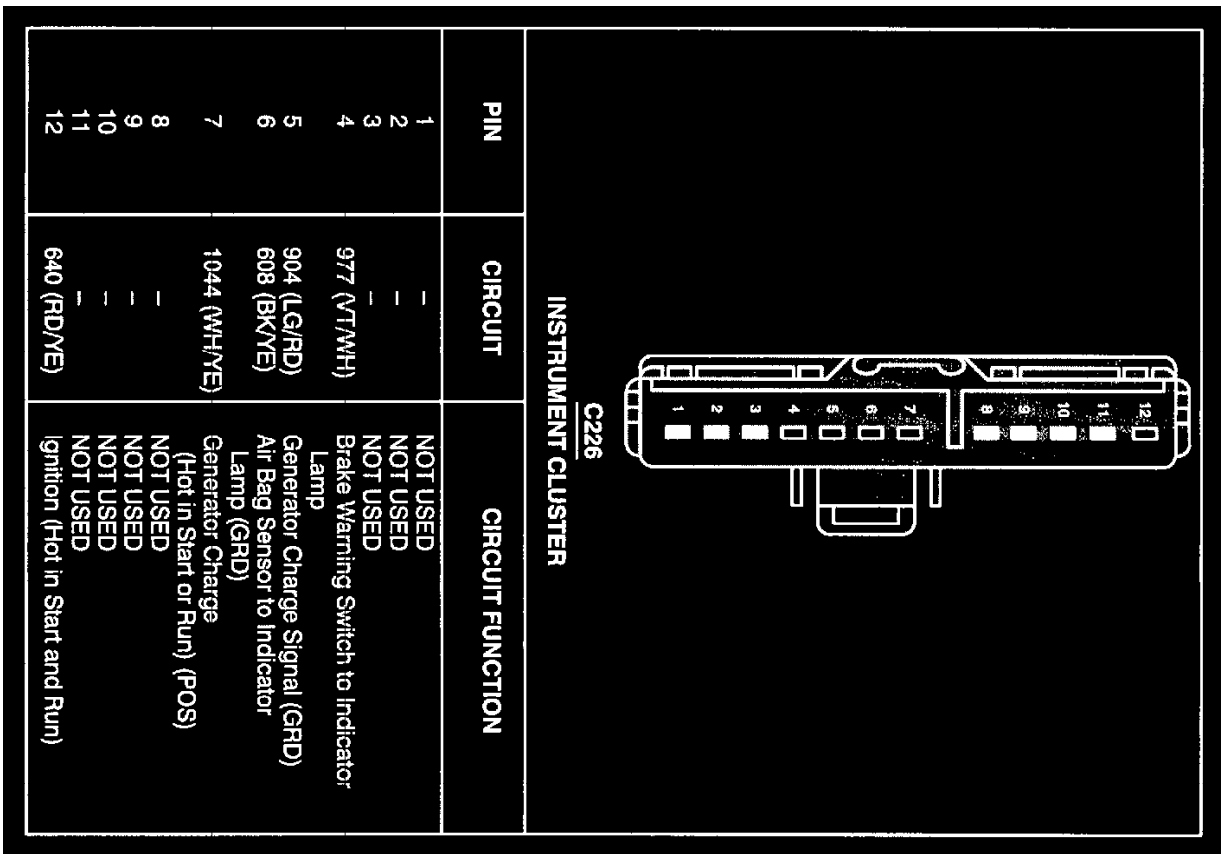
PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	19 (LB/RD)	Dimmer to Illumination Lamps (POS)
3	729 (RD/WH)	Voltmeter
4	–	NOT USED
5	570 (BK/WH)	Ground
6	31 (WH/RD)	Oil Pressure Signal
7	679 (GY/BK)	Vehicle Speed Signal
8	–	NOT USED
9	39 (RD/WH)	Temperature Signal
10	29 (YE/WH)	Fuel Level Signal
11	640 (RD/YE)	Ignition (Hot in Start or Run)
12	–	NOT USED
13	–	NOT USED
14	2 (WH/LB)	Turn Signal Switch (POS)
15	–	NOT USED
16	3 (LG/WH)	Turn Signal Switch (POS)



C225

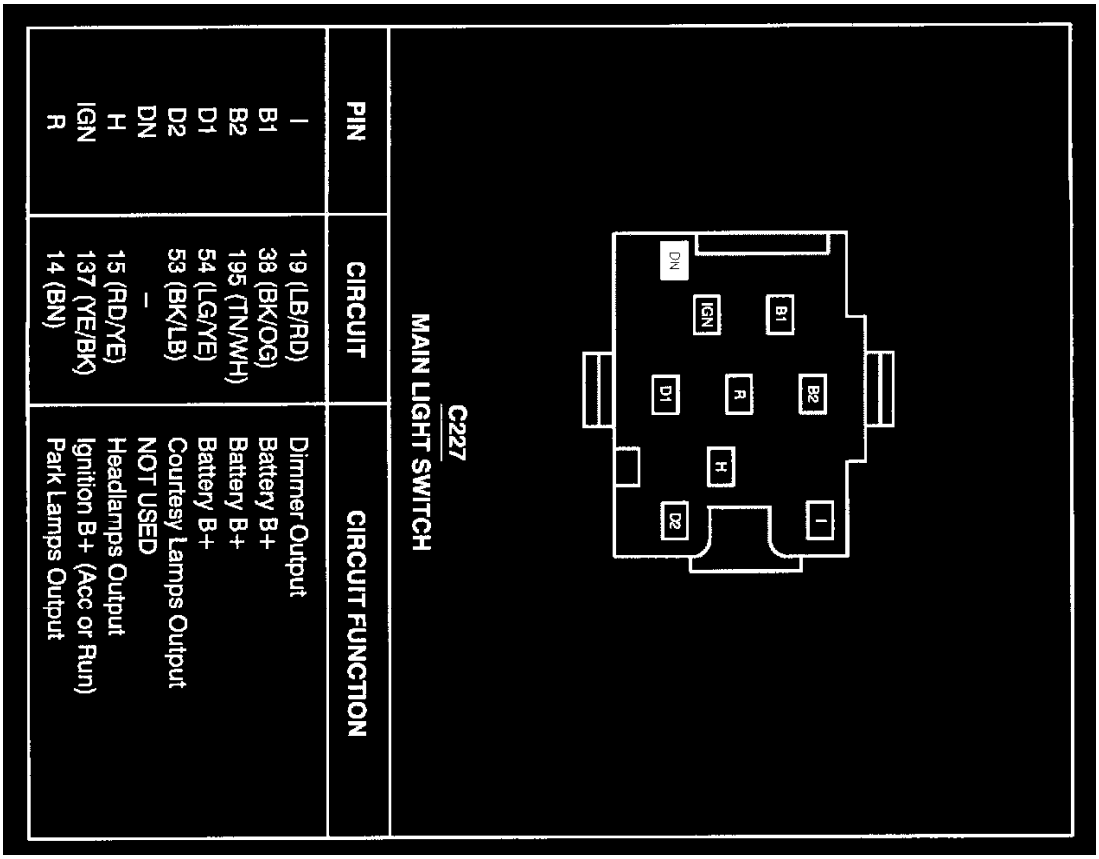
INSTRUMENT CLUSTER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	–	NOT USED
3	–	NOT USED
4	1031 (LG)	Fuel Filter Indicator Lamp (GRD)
5	658 (PK/LG)	Service Engine Soon Indicator Lamp (GRD)
6	–	NOT USED
7	450 (DG/LG)	Safety Belt Warning Lamp (POS)
8	603 (DG)	ABS Indicator Lamp (GRD)
9	12 (LG/BK)	High Beam Switch to Indicator Lamp (POS)
10	–	NOT USED
11	464 (BK/PK)	Wait to Start Indicator Lamp (GRD)
12	643 (RD)	Water in Fuel Signal (POS)



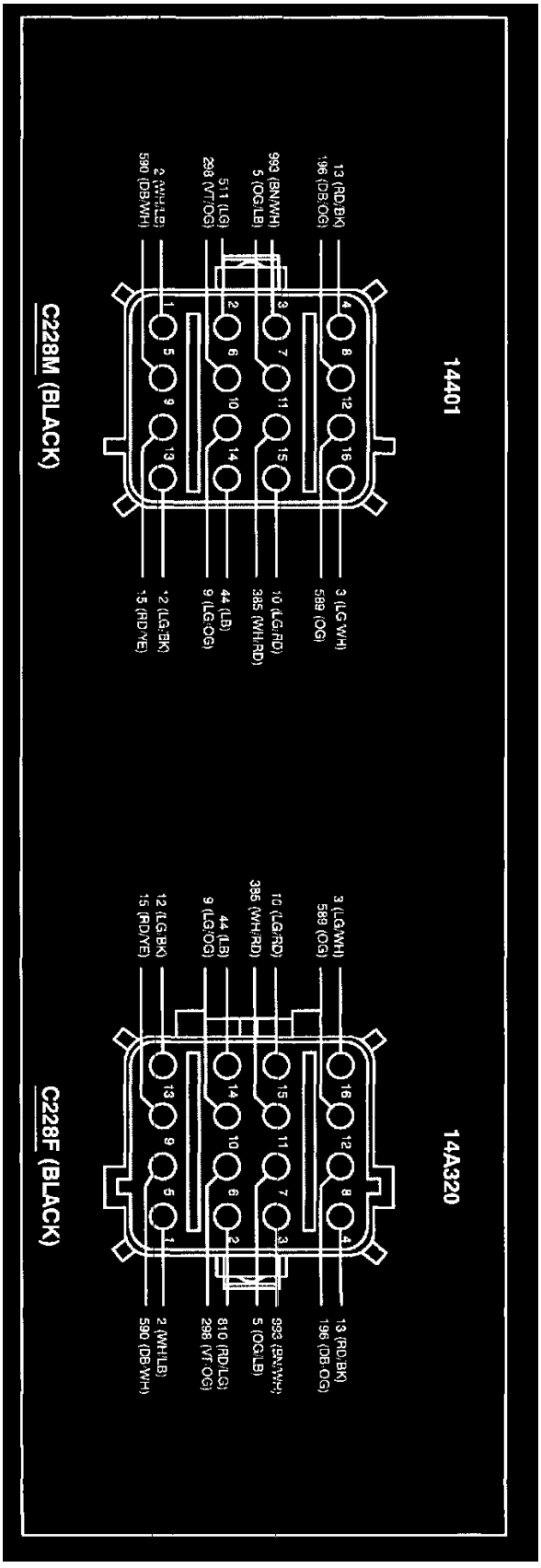
C226
INSTRUMENT CLUSTER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	–	NOT USED
3	–	NOT USED
4	977 (VT/WH)	Brake Warning Switch to Indicator Lamp
5	904 (LG/RD)	Generator Charge Signal (GRD)
6	608 (BK/YE)	Air Bag Sensor to Indicator Lamp (GRD)
7	1044 (WH/YE)	Generator Charge (Hot in Start or Run) (POS)
8	–	NOT USED
9	–	NOT USED
10	–	NOT USED
11	–	NOT USED
12	640 (RD/YE)	Ignition (Hot in Start and Run)

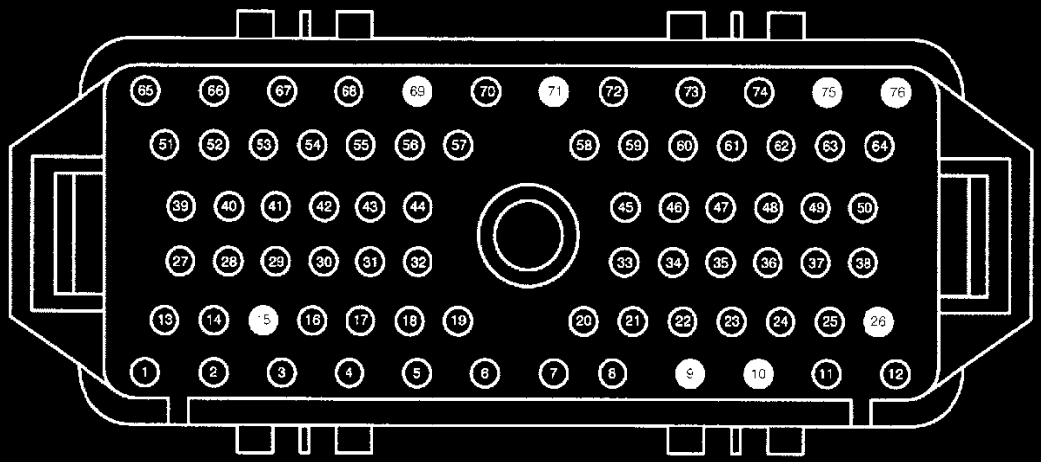


C227
MAIN LIGHT SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
I	19 (LB/RD)	Dimmer Output
B1	38 (BK/OG)	Battery B+
B2	195 (TN/WH)	Battery B+
D1	54 (LG/YE)	Battery B+
D2	53 (BK/LB)	Courtesy Lamps Output
DN	–	NOT USED
H	15 (RD/YE)	Headlamps Output
IGN	137 (YE/BK)	Ignition B+ (Acc or Run)
R	14 (BN)	Park Lamps Output


14401
C228M (BLACK)
13 (RD/BK)
196 (DB/OG)
993 (BN/WH)
5 (OG/LB)
511 (LG)
298 (VT/OG)
2 (WH/LB)
590 (DB/WH)
3 (LG/WH)
589 (OG)
10 (LG/RD)
385 (WH/RD)
44 (LB)
9 (LG/OG)
12 (LG/BK)
15 (RD/YE)
14A320
C228F (BLACK)
3 (LG/WH)
589 (OG)
10 (LG/RD)
385 (WH/RD)
44 (LB)
9 (LG/OG)
12 (LG/BK)
15 (RD/YE)
13 (RD/BK)
196 (DB/OG)
993 (BN/WH)
5 (OG/LB)
810 (RD/LG)
298 (VT/OG)
2 (WH/LB)
590 (DB/WH)

14401

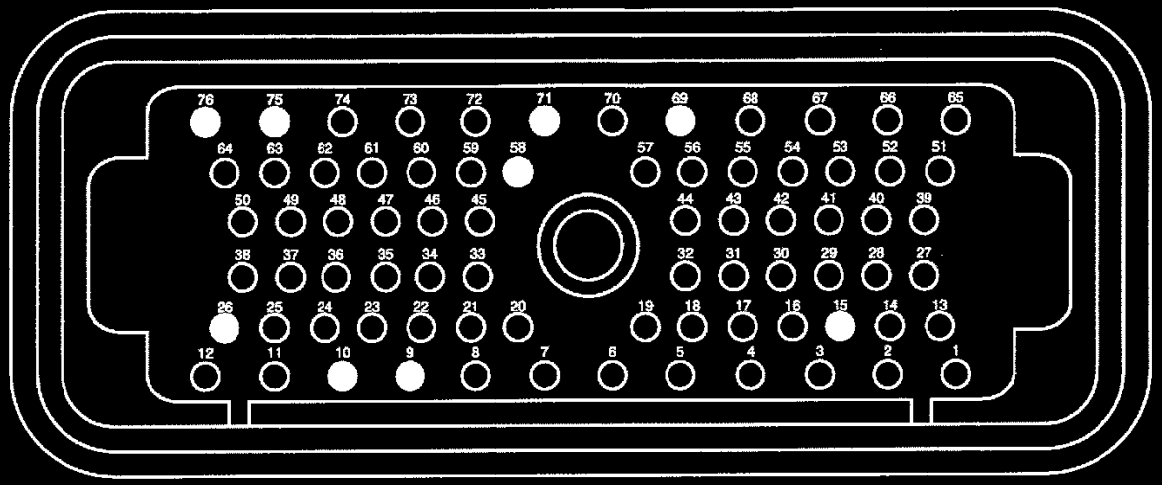


C229F (BLACK)

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	20	640 (RD/YE)	39	664 (YE/LG)	57	224 (TN/WH)
2	752 (YE/RD)	21	676 (PK/OG)	40	531 (DG/YE)	58	875 (BK/LB)
3	37 (YE)	22	753 (YE/RD)	41	39 (RD/WH)	59	464 (BK/PK)
4	261 (OG/BK)	23	679 (GY/BK)	42	19 (LB/RD)	60	658 (PK/LG)
5	38 (BK/OG)	24	848 (DG/OG)	43	40 (LB/WH)	61	359 (GY/RD)
6	49 (OG)	25	535 (LB/RD)	44	619 (PK/WH)	62	348 (VT)
	932 (GY/WH)	26	–	45	911 (WH/LG)	63	3 (LG/WH)
7	58 (WH)	27	523 (RD/PK)	46	941 (BK/WH)	64	260 (RD/OG)
8	754 (LG/WH)	28	519 (LG/BK)	47	512 (TN/LG)	65	269 (LB/OG)
9	–	29	14 (BN)	48	31 (WH/RD)	66	61 (YE/RD)
10	–	30	298 (VT/OG)	49	162 (LG/RD)	67	137 (YE/BK)
11	65 (DG)	31	128 (VT/YE)	50	53 (BK/LB)	68	511 (LG)
12	28 (BK/VT)	32	151 (LB/PK)	51	676 (PK/OG)	69	–
13	56 (DB/OG)	33	489 (PK/BK)	52	54 (LG/YE)	70	85 (BN/LB)
14	1 (DB)	34	729 (RD/WH)	53	904 (LG/RD)	71	–
15	–	35	195 (TN/WH)	54	643 (RD)	72	757 (RD/WH)
16	19 (LB/RD)	36	29 (YE/WH)	55	10 (LG/RD)	73	867 (DB)
17	676 (PK/OG)	37	599 (PK/LG)		483 (RD)	74	868 (GY/RD)
18	13 (RD/BK)	38	2 (WH/LB)	56	603 (DG)	75	–
19	12 (LG/BK)					76	–

12A581

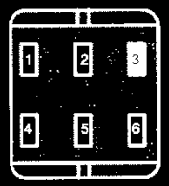
* 7.3L DIESEL



C229M (BLACK)

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	20	640 (RD/YE)	38	2 (WH/BK)	58	875 (BK/LB)
2	752 (YE/RD)	21	676 (PK/OG)	39	664 (YE/LG)	59	464 (BK/PK)
3	37 (YE)	22	753 (YE/RD)	40	531 (DG/YE)	60	658 (PK/LG)
4	261 (OG/BK)	23	679 (GY/BK)	41	39 (RD/WH)	61	651 (BK/YE)
5	38 (BK/OG)	24	848 (DG/OG)	42	19 (LB/RD)	62	348 (VT)
6	49 (OG)		*359 (GY/RD)	43	40 (LB/WH)	63	3 (LG/WH)
7	58 (WH)	25	535 (LB/RD)	44	619 (PK/WH)	64	260 (RD/OG)
8	754 (LG/WH)	26	–	45	911 (WH/LG)	65	269 (LB/OG)
9	–	27	523 (RD/PK)	46	941 (BK/WH)	66	61 (YE/RD)
10	–	28	519 (LG/BK)	47	512 (TN/LG)	67	137 (YE/BK)
11	65 (DG)	29	14 (BN)	48	31 (WH/RD)	68	511 (LG)
12	28 (BK/PK)	30	298 (VT/OG)	49	162 (LG/RD)	69	–
13	56 (DB/OG)	31	128 (VT/YE)	50	53 (BK/LB)	70	85 (BN/LB)
14	1 (DB)	32	151 (LB/BK)	51	676 (PK/OG)	71	–
15	–	33	489 (PK/BK)	52	54 (LG/YE)	72	757 (RD/WH)
16	19 (LB/RD)	34	729 (RD/WH)	53	904 (LG/RD)	73	867 (DB)
17	676 (PK/OG)	35	195 (TN/WH)	54	643 (RD)	74	868 (GY/RD)
18	13 (RD/BK)	36	29 (YE/WH)	55	10 (LG/RD)	75	–
19	12 (LG/BK)	37	599 (PK/LG)	56	603 (DG)	76	–
				57	224 (TN/WH)		

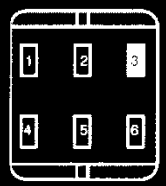
WITH A/C



C230
AUXILIARY A/C-HEATER BLOWER SWITCH

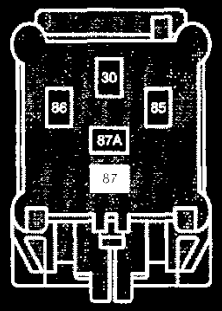
PIN	CIRCUIT	CIRCUIT FUNCTION
1	752 (YE/RD)	Auxiliary Blower Resistor Output
2	757 (RD/WH)	Auxiliary Blower Resistor Output
3	–	NOT USED
4	57 (BK)	Ground
5	751 (DB/WH)	Auxiliary Blower Resistor Output
6	754 (LG/WH)	Rear Auxiliary Blower Switch Output

WITHOUT A/C



C230
AUXILIARY HEATER BLOWER SWITCH

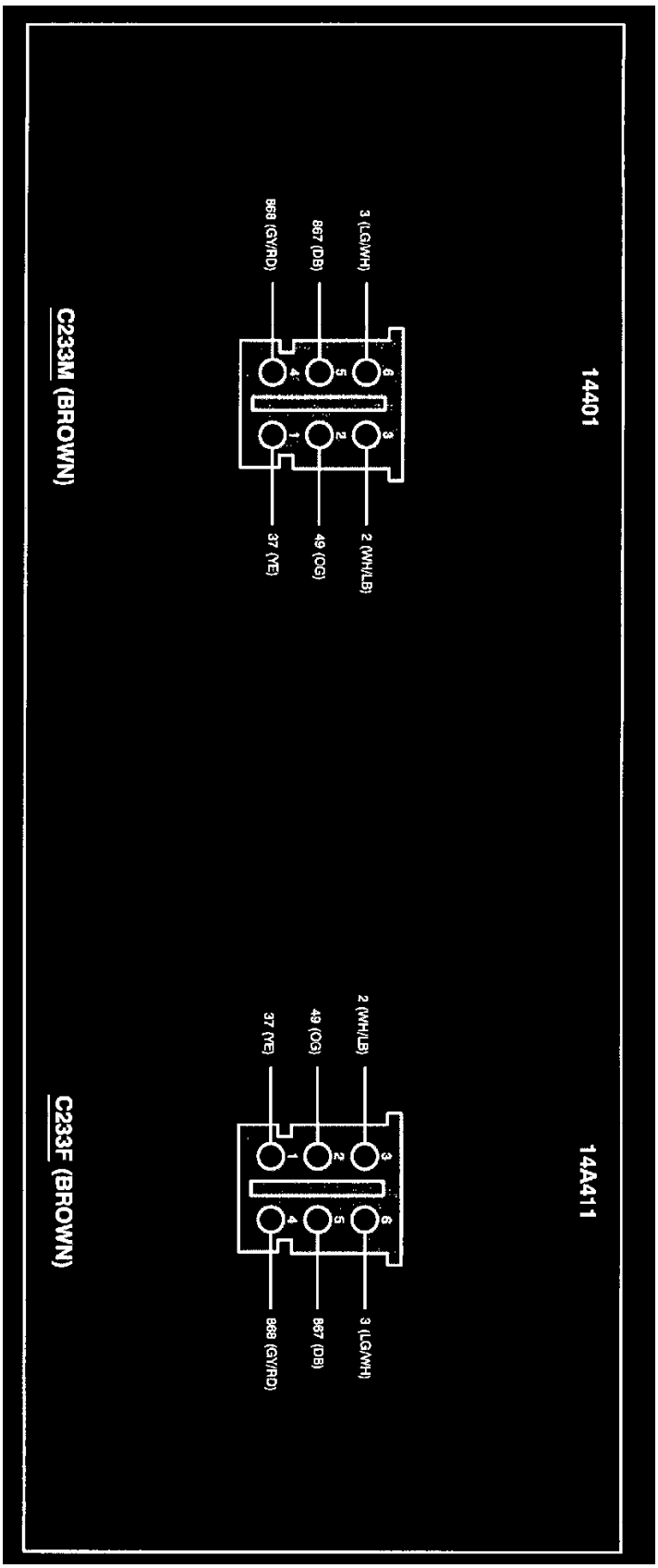
PIN	CIRCUIT	CIRCUIT FUNCTION
1	752 (YE/RD)	Auxiliary Blower Resistor Output
2	757 (RD/WH)	Auxiliary Blower Resistor Output
3	–	NOT USED
4	57 (BK)	Ground
5	751 (DB/WH)	Auxiliary Blower Resistor Output
6	754 (LG/WH)	Rear Auxiliary Blower Switch Output



C232

4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
30	57 (BK)	Ground
85	640 (RD/YE)	Power (Hot in Start or Run)
86	599 (PK/LG)	Relay Control Output
87	–	NOT USED
87A	128 (VT/YE)	Power (Hot in Start or Run)

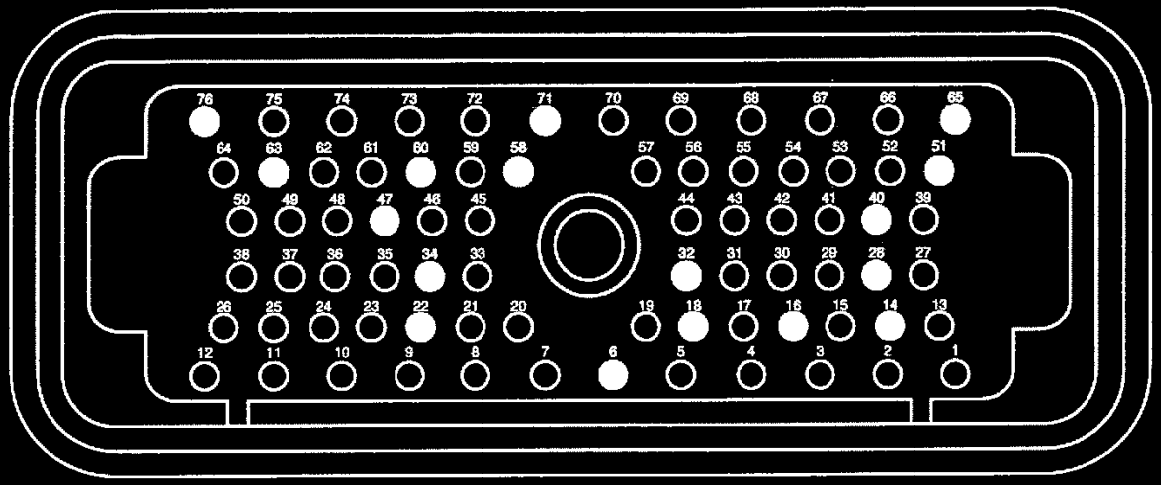

14401
3 (LG/WH)
867 (DB)
868 (GY/RD)
2 (WH/LB)
49 (OG)
37 (YE)
C233M (BROWN)
14A411
2 (WH/LB)
49 (OG)
37 (YE)
3 (LG/WH)
867 (DB)
868 (GY/RD)
C233F (BROWN)

C233
MODIFIED VEHICLE POWER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	37 (YE)	Battery +
2	868 (GY/RD)	Emergency Release Levers
3	49 (OG)	Trailer Battery Charge
4	867 (DB)	Left Door Open-Driver
5	2 (WH/LB)	Right Turn Signal
6	3 (LG/WH)	Left Turn Signal

12A581

* 7.3L DIESEL

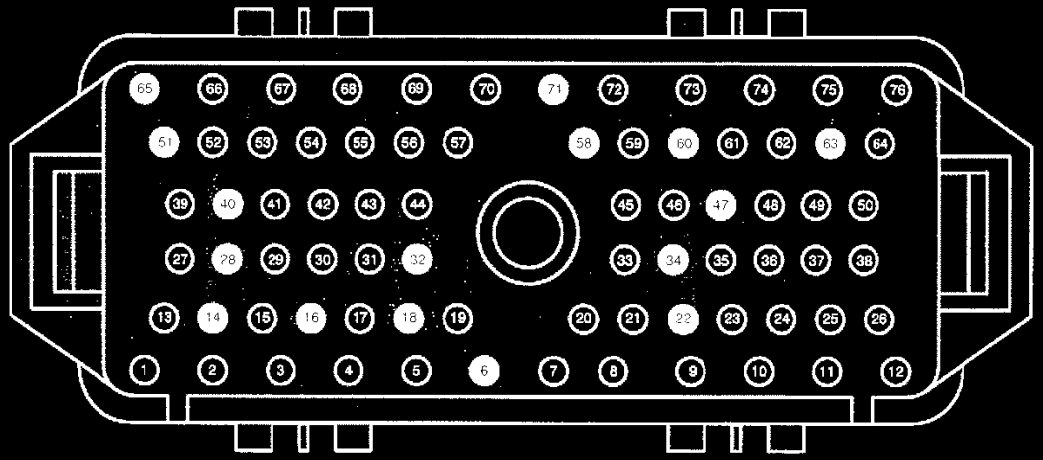


C234M (NATURAL)

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	21	753 (YE/RD)	40	–	58	–
2	752 (YE/RD)	22	–	41	1093 (TN/RD)	59	915 (PK/LB)
3	754 (LG/WH)	23	5 (OG/LB)		*33 (WH/PK)	60	–
4	43 (DB)	24	10 (LG/RD)	42	19 (LB/RD)	61	914 (TN/OG)
5	16 (RD/LG)	25	*284 (OG)	43	70 (LB/WH)	62	*356 (DB/LG)
6	–	26	37 (YE)	44	*355 (GY/WH)	63	–
7	22 (LB/BK)	27	9 (LG/OG)	45	601 (LB/PK)	64	65 (DG)
8	*359 (GY/RD)	28	–	46	296 (WH/VT)	65	–
9	*351 (BN/WH)	29	511 (LG)	47	–	66	49 (OG)
10	296 (WH/VT)	30	*308 (RD/OG)	48	14 (BN)	67	137 (YE/BK)
11	884 (YE/BK)	31	107 (VT)	49	570 (BK/WH)	68	40 (LB/WH)
12	38 (BK/OG)	32	–	50	53 (BK/LB)	69	37 (YE)
13	37 (YE)	33	489 (PK/BK)	51	–	70	85 (BN/LB)
14	–	34	–	52	54 (LG/YE)	71	–
15	*837 (YE/BK)	35	195 (TN/WH)	53	140 (BK/PK)	72	757 (RD/WH)
16	–	36	531 (DG/YE)	54	1 (DB)	73	*16 (RD/LG)
17	19 (LB/RD)	37	12 (LG/BK)	55	519 (LG/BK)	74	238 (DG/YE)
18	–	38	13 (RD/BK)	56	523 (RD/PK)	75	787 (PK/BK)
19	640 (RD/YE)	39	162 (LG/RD)	57	13 (RD/BK)	76	–
20	298 (VT/OG)						

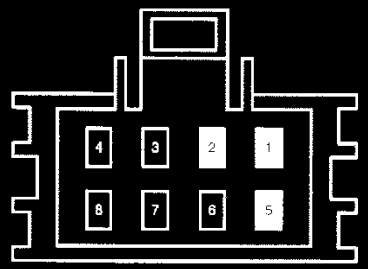
14A200

* 7.3L DIESEL



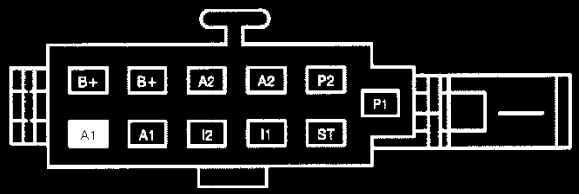
C234F (NATURAL)

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	20	298 (VT/OG)	39	162 (LG/RD)	57	13 (RD/BK)
2	752 (YE/RD)	21	753 (YE/RD)	40	–	58	–
3	754 (LG/WH)	22	–	41	1093 (TN/RD)	59	915 (PK/LB)
4	43 (DB)	23	5 (OG/LB)		*33 (WH/PK)	60	–
5	16 (RD/LG)	24	10 (LG/RD)	42	19 (LB/RD)	61	914 (TN/OG)
6	–	25	284 (OG)	43	70 (LB/WH)	62	*356 (DB/LG)
7	22 (LB/BK)	26	37 (YE)	44	*355 (GY/WH)	63	–
8	*359 (GY/RD)	27	9 (LG/OG)	45	601 (LB/PK)	64	65 (DG)
9	*351 (BN/WH)	28	–	46	296 (WH/VT)	65	–
10	296 (WH/VT)	29	511 (LG)	47	–	66	49 (OG)
11	884 (YE/BK)	30	*308 (RD/OG)	48	14 (BN)	67	137 (YE/BK)
12	38 (BK/OG)	31	107 (VT)	49	570 (BK/WH)	68	40 (LB/WH)
13	37 (YE)	32	–	50	53 (BK/LB)	69	37 (YE)
14	–	33	489 (PK/BK)	51	–	70	85 (BN/LB)
15	*837 (YE/BK)	34	–	52	54 (LG/YE)	71	–
16	–	35	195 (TN/WH)	53	140 (BK/PK)	72	757 (RD/WH)
17	19 (LB/RD)	36	531 (DG/YE)	54	1 (DB)	73	*16 (RD/LG)
18	–	37	12 (LG/BK)	55	519 (LG/BK)	74	238 (DG/YE)
19	640 (RD/YE)	38	13 (RD/BK)	56	523 (RD/PK)	75	787 (PK/BK)
						76	41 (BK/LB)



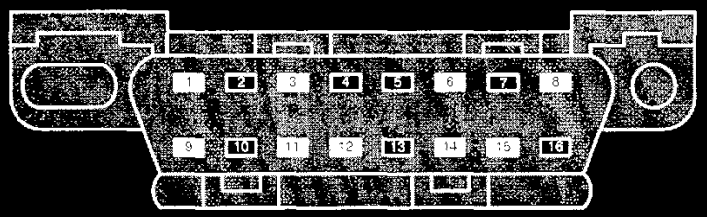
C237
BLEND DOOR ACTUATOR

PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	–	NOT USED
3	437 (YE/LG)	Control Potentiometer Wiper
4	438 (RD/WH)	Control Potentiometer Ground
5	–	NOT USED
6	436 (RD/LG)	Control Pot +
7	489 (PK/BK)	Ignition (Run)
8	57 (BK)	Ground



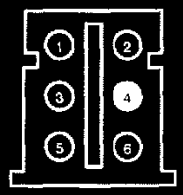
C240
IGNITION SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
A1	–	NOT USED
A1	297 (BK/LG)	Power (Hot in Acc or Run)
A2	687 (GY/YE)	Power (Hot in Run)
A2	687 (GY/YE)	Power (Hot in Run)
B+	37 (YE)	Battery Voltage
B+	37 (YE)	Battery Voltage
I1	16 (RD/LG)	Power (Hot in Run)
I2	16 (RD/LG)	Power (Hot in Start)
ST	33 (WH/PK)	Power (Hot in Start)
P1	531 (DG/YE)	Bulb Test Ground
P2	41 (BK/LB)	Bulb Test Ground



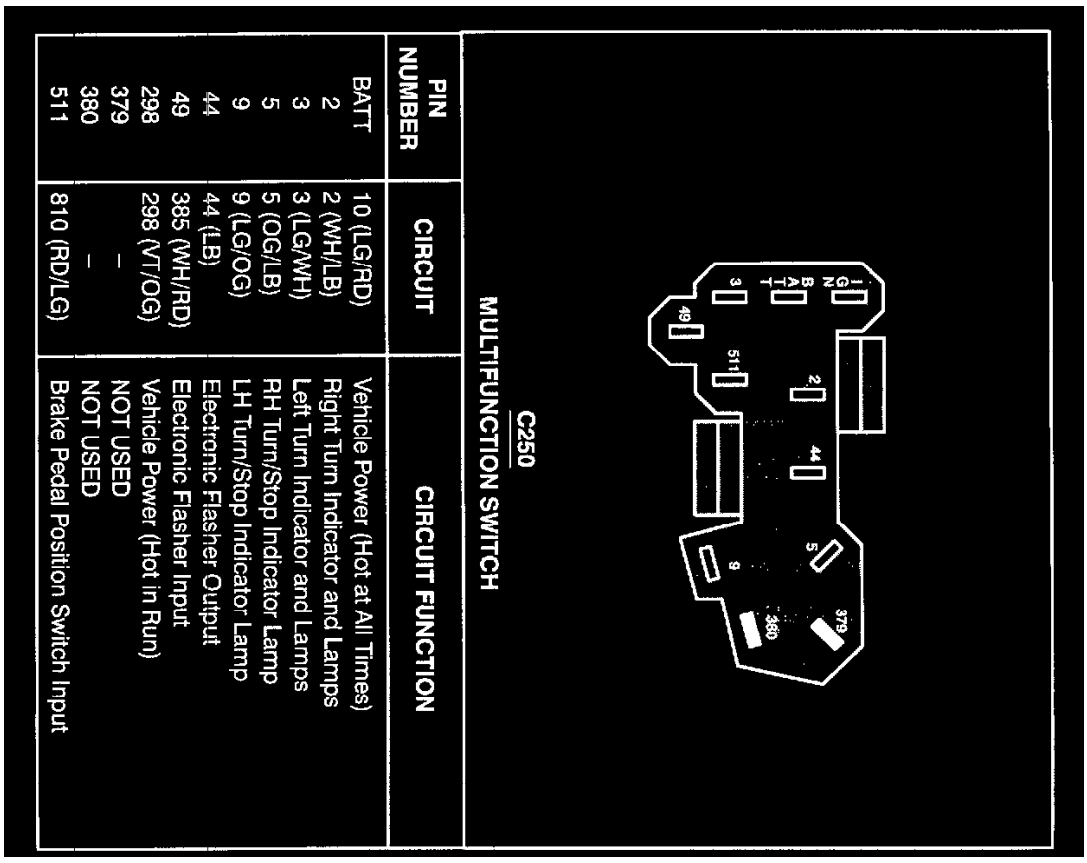
C241
DATA LINK CONNECTOR (DLC)

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	914 (TN/OG)	Data Communications (+) (Data +)
3	–	NOT USED
4	875 (BK/LB)	Ground Circuit
5	570 (BK/WH)	PCM Ground
6	–	NOT USED
7	70 (LB/WH)	4WABS Module and Electronic Crash Sensor (ECS) Module
8	–	NOT USED
9	–	NOT USED
10	915 (PK/LB)	Data Communications (–) (Data –)
11	–	NOT USED
12	–	NOT USED
13	107 (VT)	PCM Module To Self Test Connector
14	–	NOT USED
15	–	NOT USED
16	1047 (LG/RD)	Power (Battery +)



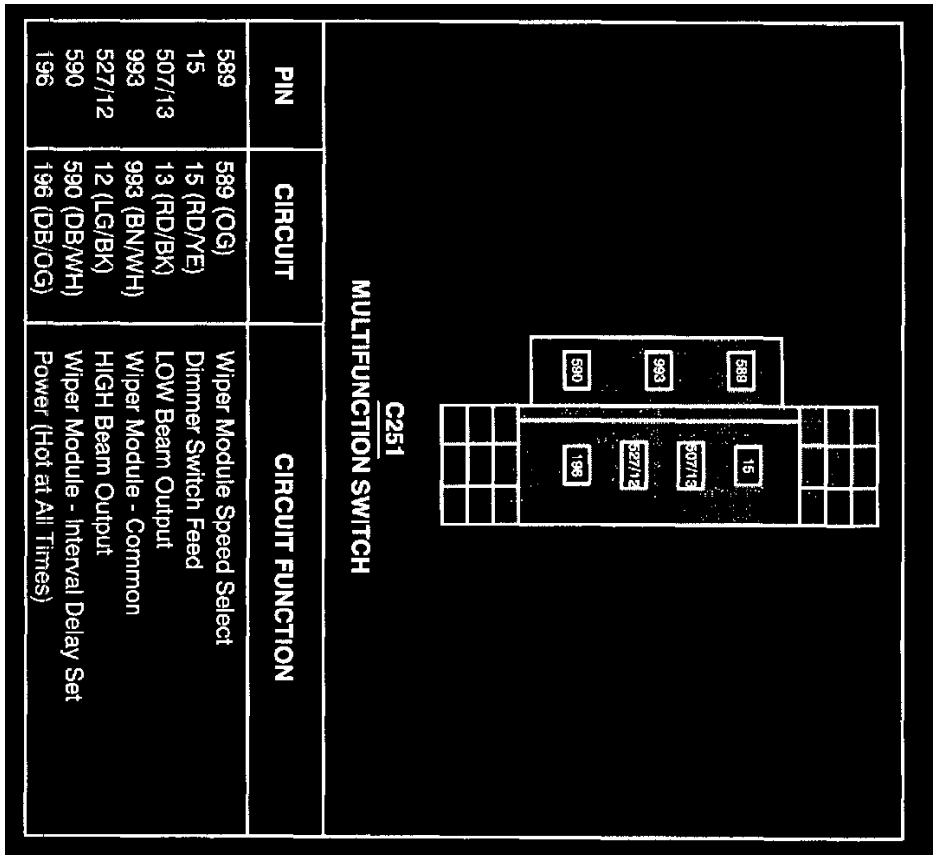
C244
ELECTRONIC BRAKE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	43 (DB)	Trailer Adapter (Class II)
2	57 (BK)	Ground
3	511 (LG)	Brake Pedal Position (BPP) Switch
4	–	NOT USED
5	22 (LB/BK)	Power (Hot at All Times)
6	14 (BN)	Power (Hot in Park and Head)

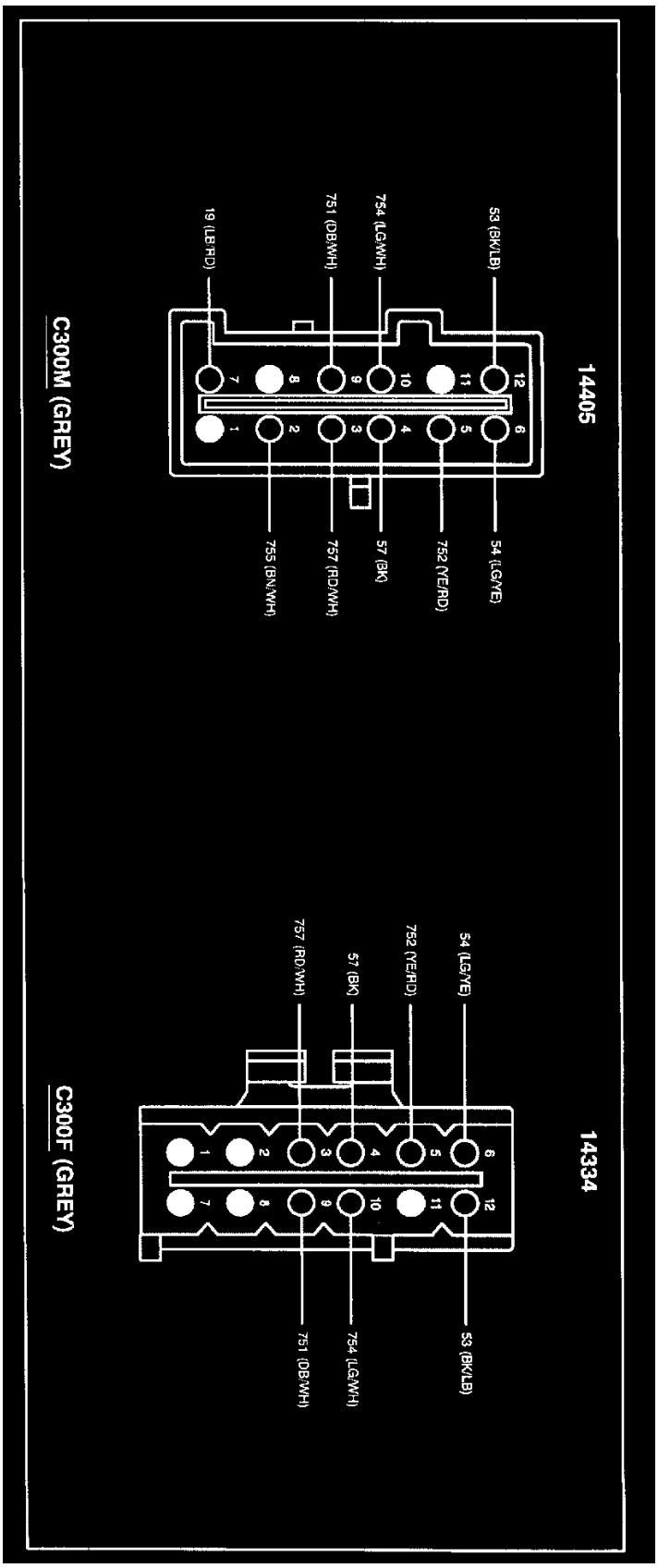


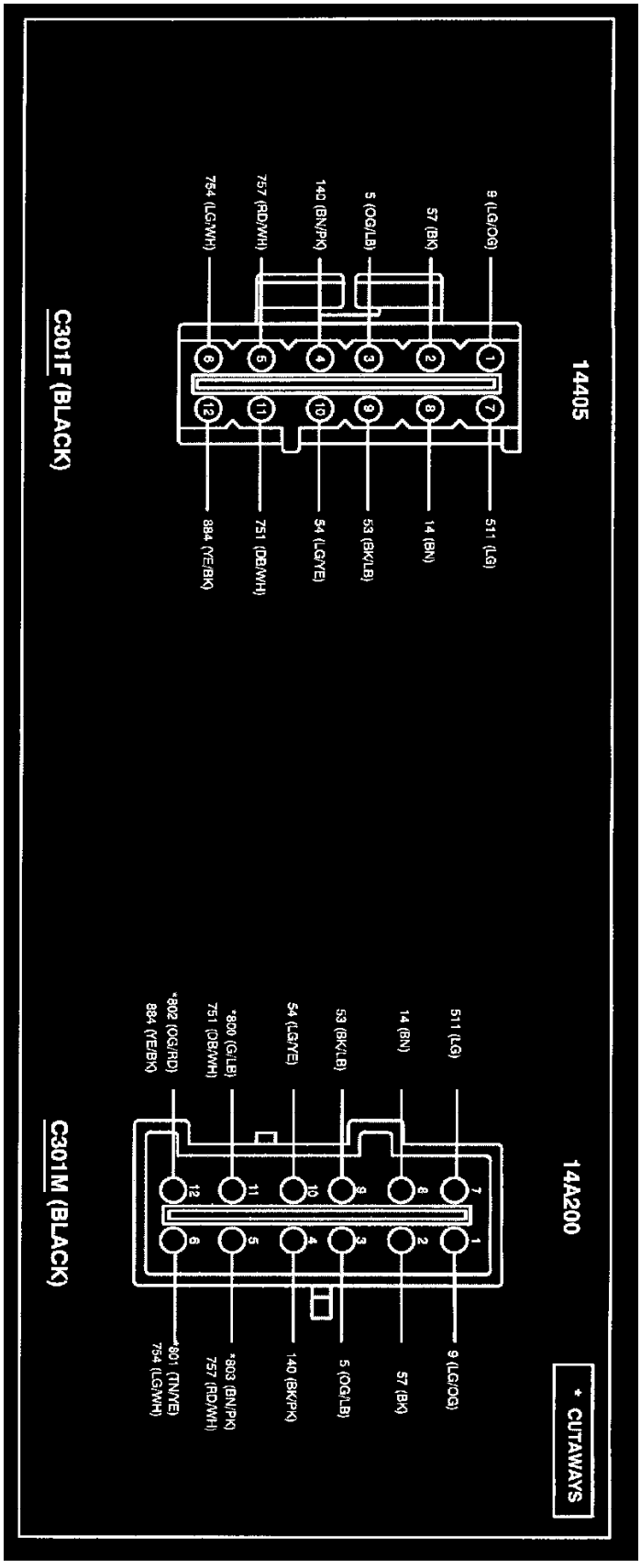
PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
BATT	10 (LG/RD)	Vehicle Power (Hot at All Times)
2	2 (WH/LB)	Right Turn Indicator and Lamps
3	3 (LG/WH)	Left Turn Indicator and Lamps
5	5 (OG/LB)	RH Turn/Stop Indicator Lamp
9	9 (LG/OG)	LH Turn/Stop Indicator Lamp
44	44 (LB)	Electronic Flasher Output
49	385 (WH/RD)	Electronic Flasher Input
298	298 (VT/OG)	Vehicle Power (Hot in Run)
379	—	NOT USED
380	—	NOT USED
511	810 (RD/LG)	Brake Pedal Position Switch Input

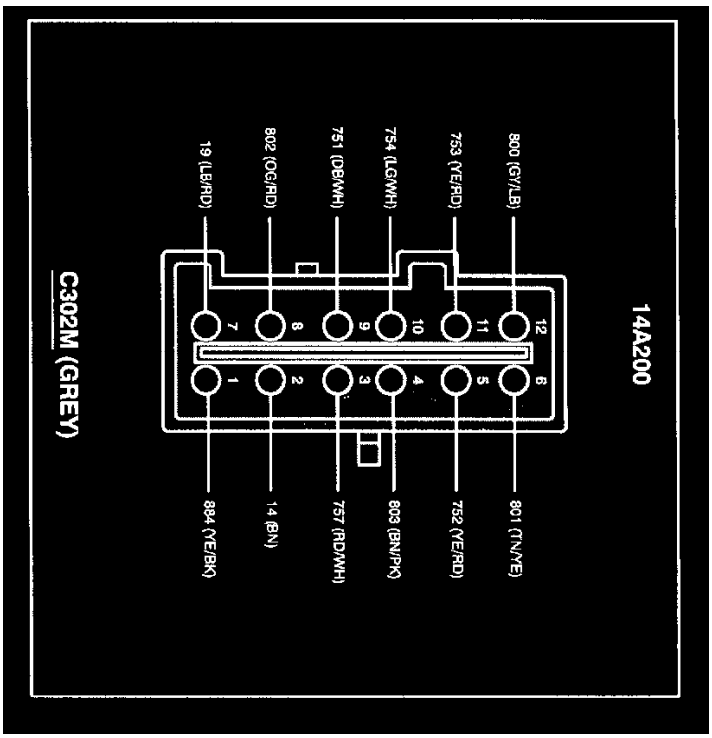
Diagram 90-4

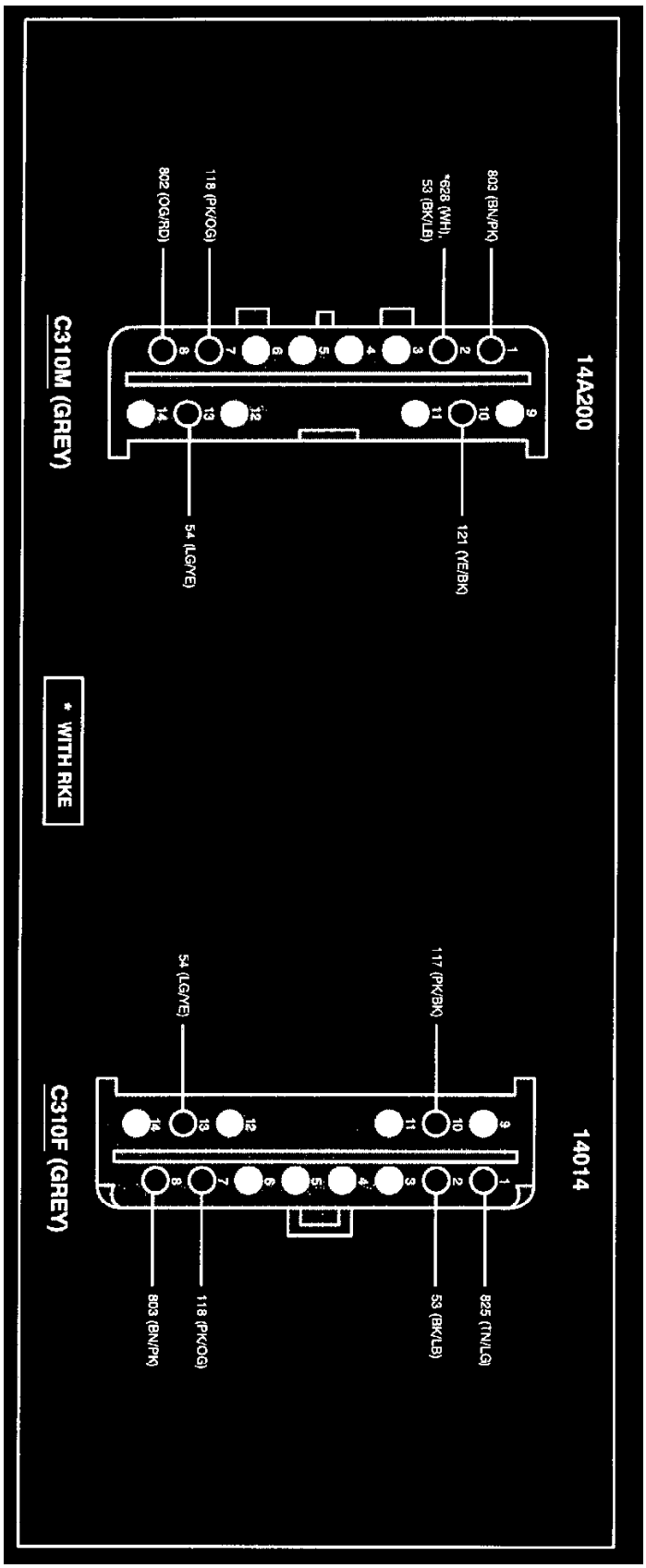


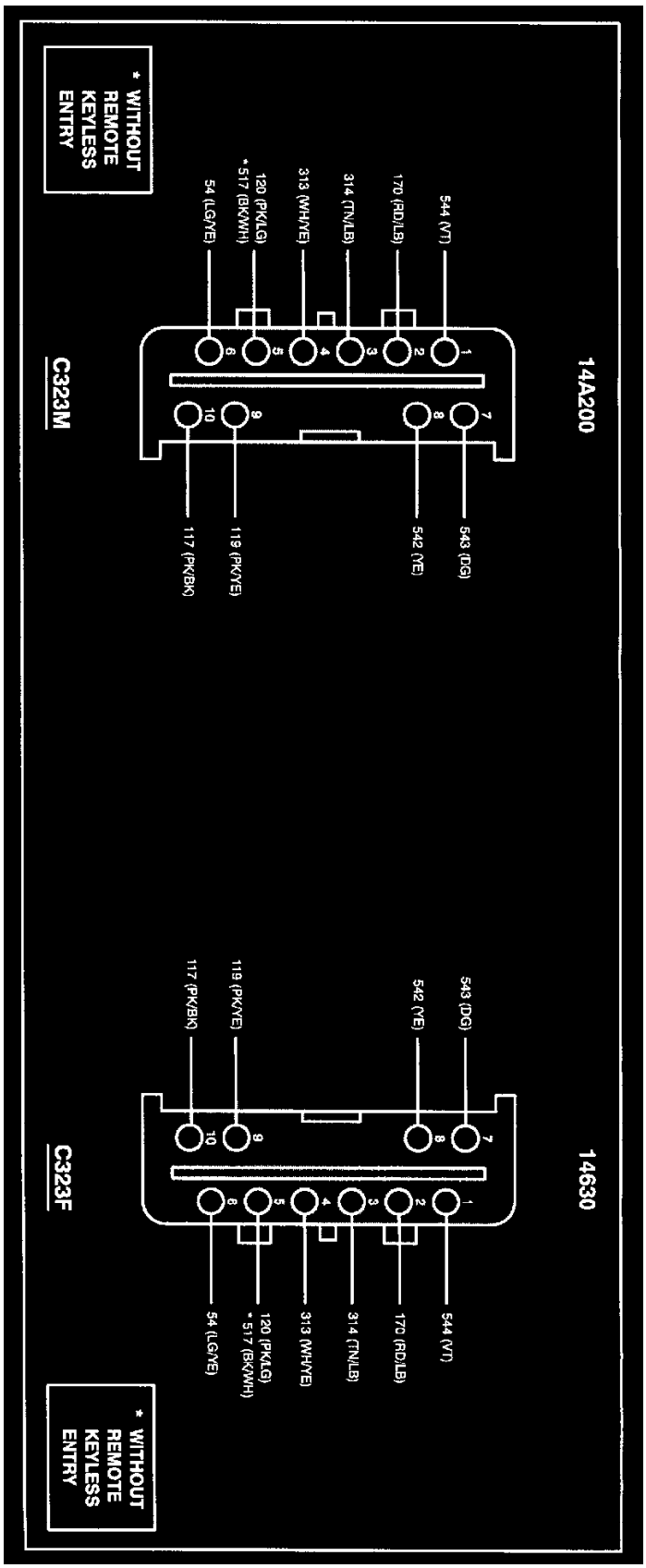
PIN	CIRCUIT	CIRCUIT FUNCTION
589	589 (OG)	Wiper Module Speed Select
15	15 (RD/YE)	Dimmer Switch Feed
507/13	13 (RD/BK)	LOW Beam Output
993	993 (BN/WH)	Wiper Module - Common
527/12	12 (LG/BK)	HIGH Beam Output
590	590 (DB/WH)	Wiper Module - Interval Delay Set
196	196 (DB/OG)	Power (Hot at All Times)

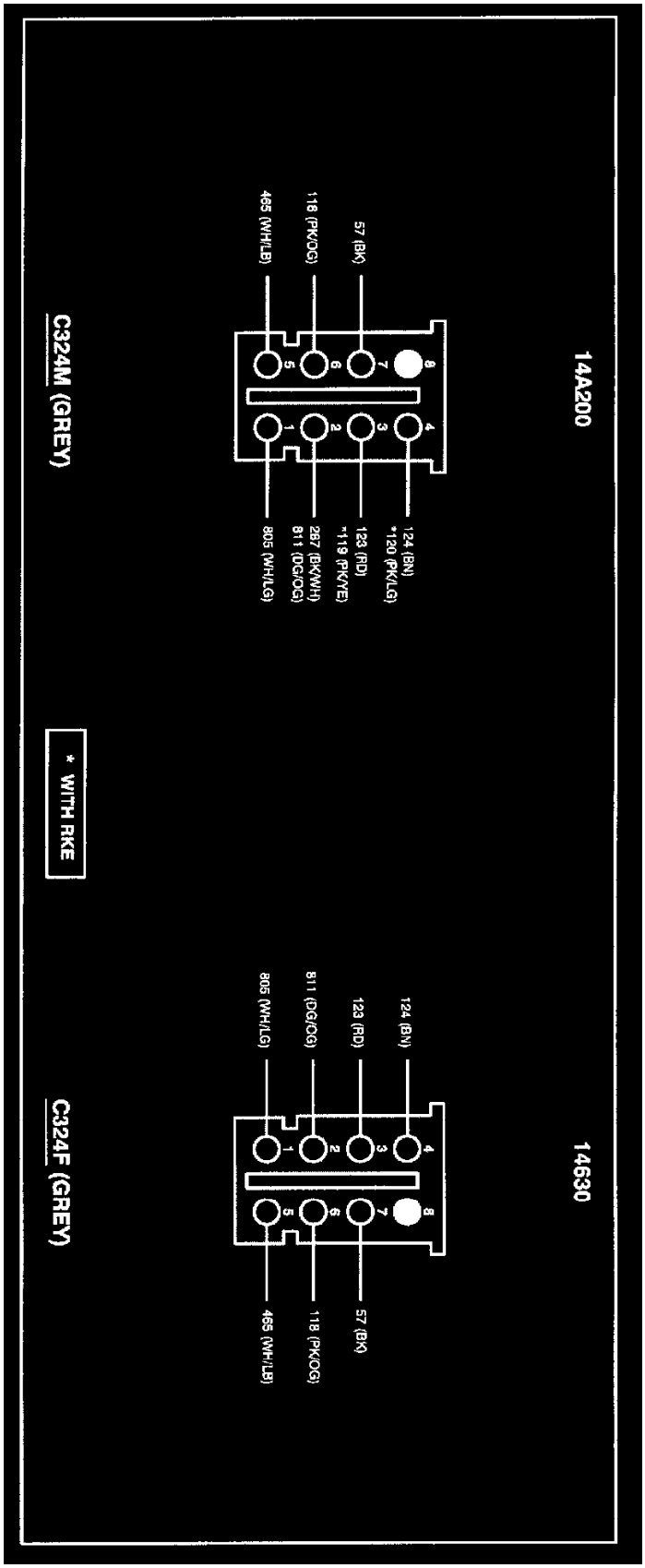

14405
C300M (GREY)
53 (BK/LB)
754 (LG/WH)
751 (DB/WH)
19 (LB/RD)
54 (LG/YE)
752 (YE/RD)
57 (BK)
757 (RD/WH)
755 (BN/WH)
14334
C300F (GREY)
54 (LG/YE)
752 (YE/RD)
57 (BK)
757 (RD/WH)
53 (BK/LB)
754 (LG/WH)
751 (DB/WH)

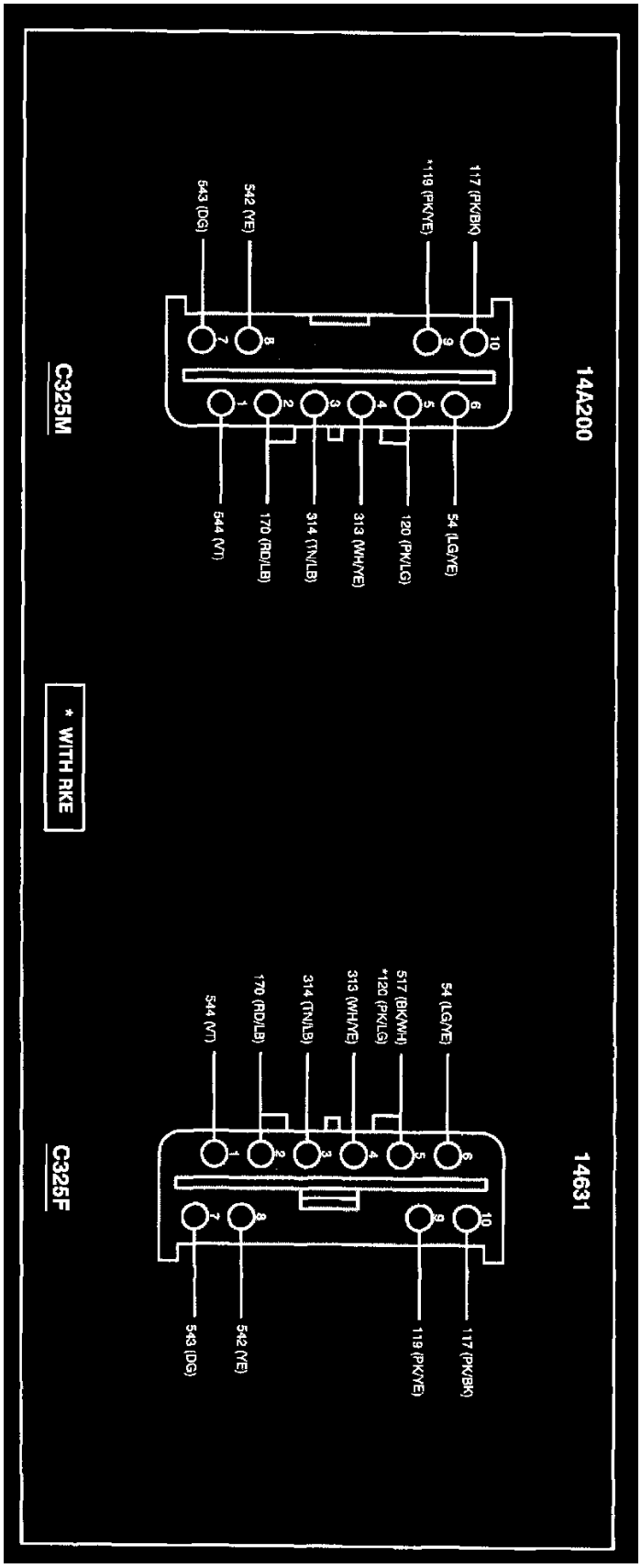

14405
9 (LG/OG)
57 (BK)
5 (OG/LB)
140 (BN/PK)
757 (RD/WH)
754 (LG/WH)
511 (LG)
14 (BN)
53 (BK/LB)
54 (LG/YE)
751 (DB/WH)
884 (YE/BK)
C301F (BLACK)
14A200
* CUTAWAYS
511 (LG)
14 (BN)
53 (BK/LB)
54 (LG/YE)
*800 (G/LB)
751 (DB/WH)
*802 (OG/RD)
884 (YE/BK)
9 (LG/OG)
57 (BK)
5 (OG/LB)
140 (BK/PK)
*803 (BN/PK)
757 (RD/WH)
*801 (TN/YE)
754 (LG/WH)
C301M (BLACK)

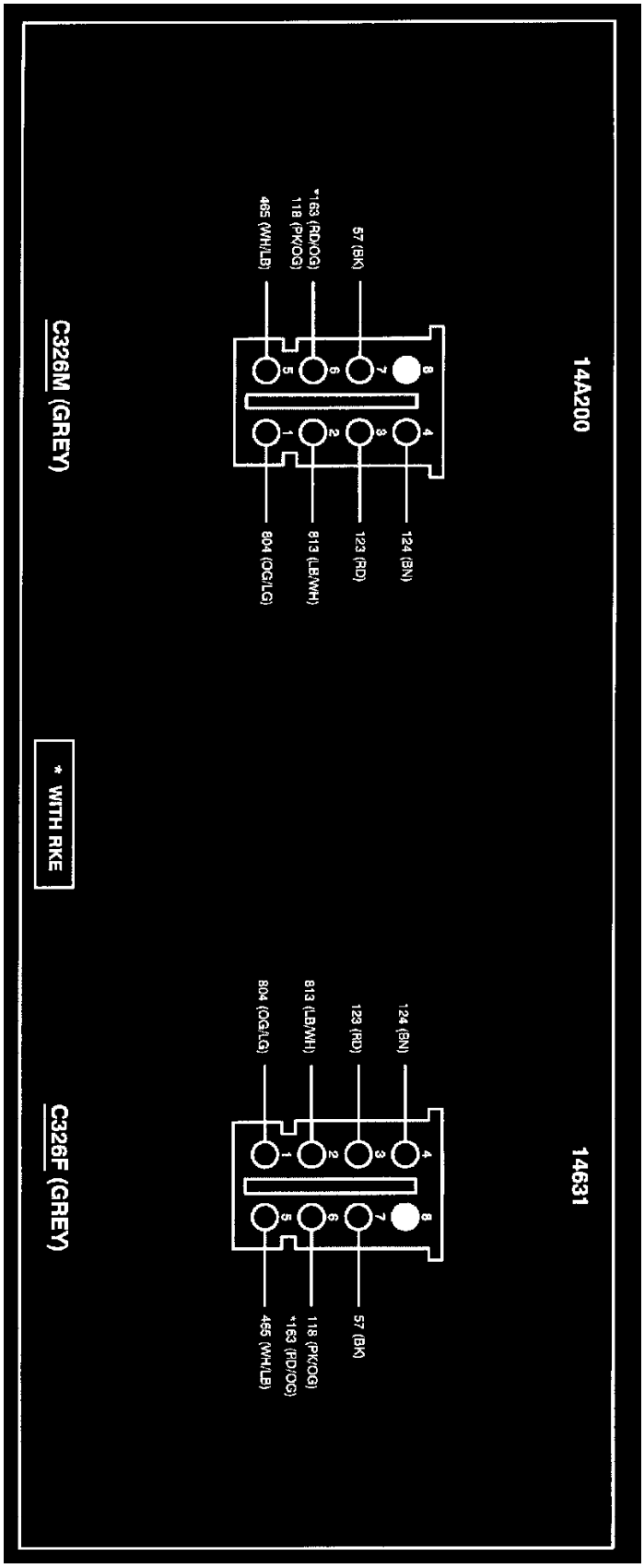

14A200
800 (GY/LB)
753 (YE/RD)
754 (LG/WH)
751 (DB/WH)
802 (OG/RD)
19 (LB/RD)
801 (TN/YE)
752 (YE/RD)
803 (BN/PK)
757 (RD/WH)
14 (BN)
884 (YE/BK)
C302M (GREY)

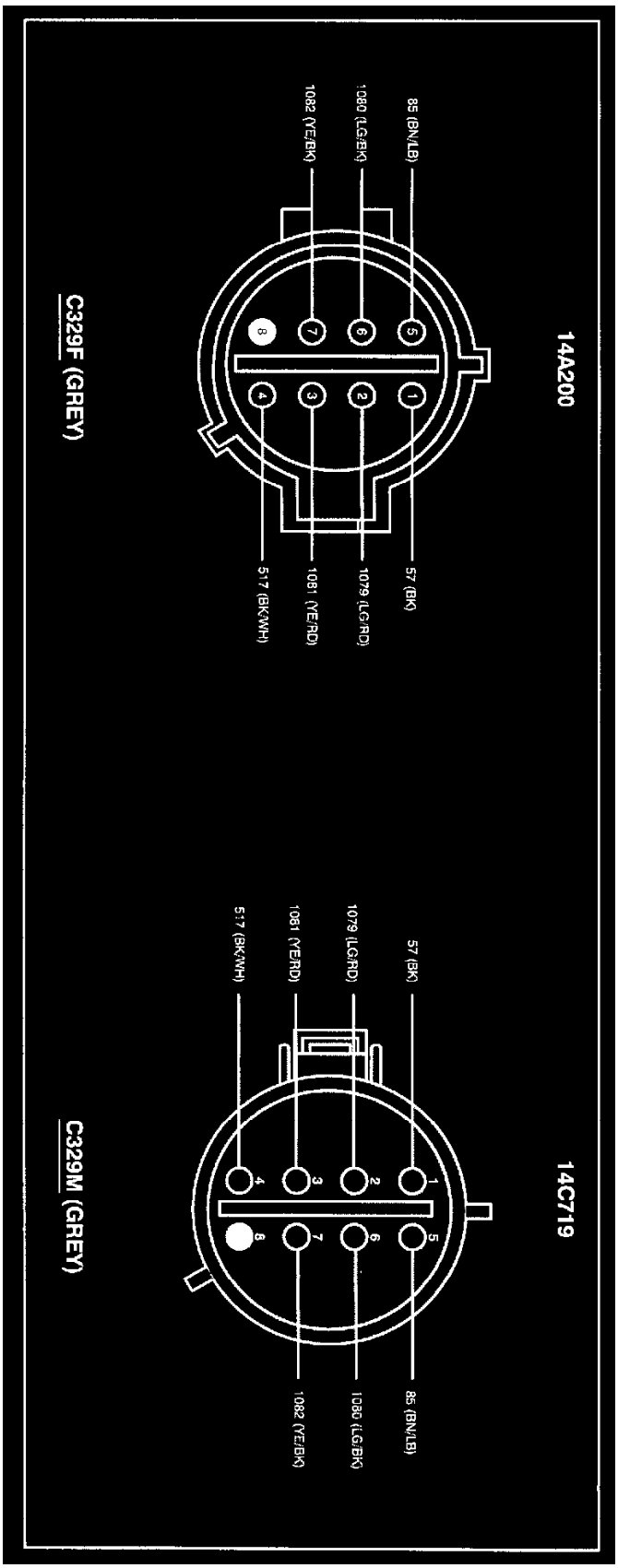

14A200
803 (BN/PK)
*628 (WH),
53 (BK/LB)
118 (PK/OG)
802 (OG/RD)
121 (YE/BK)
54 (LG/YE)
C310M (GREY)
* WITH RKE
14014
925 (TN/LG)
53 (BK/LB)
118 (PK/OG)
803 (BN/PK)
117 (PK/BK)
54 (LG/YE)
C310F (GREY)

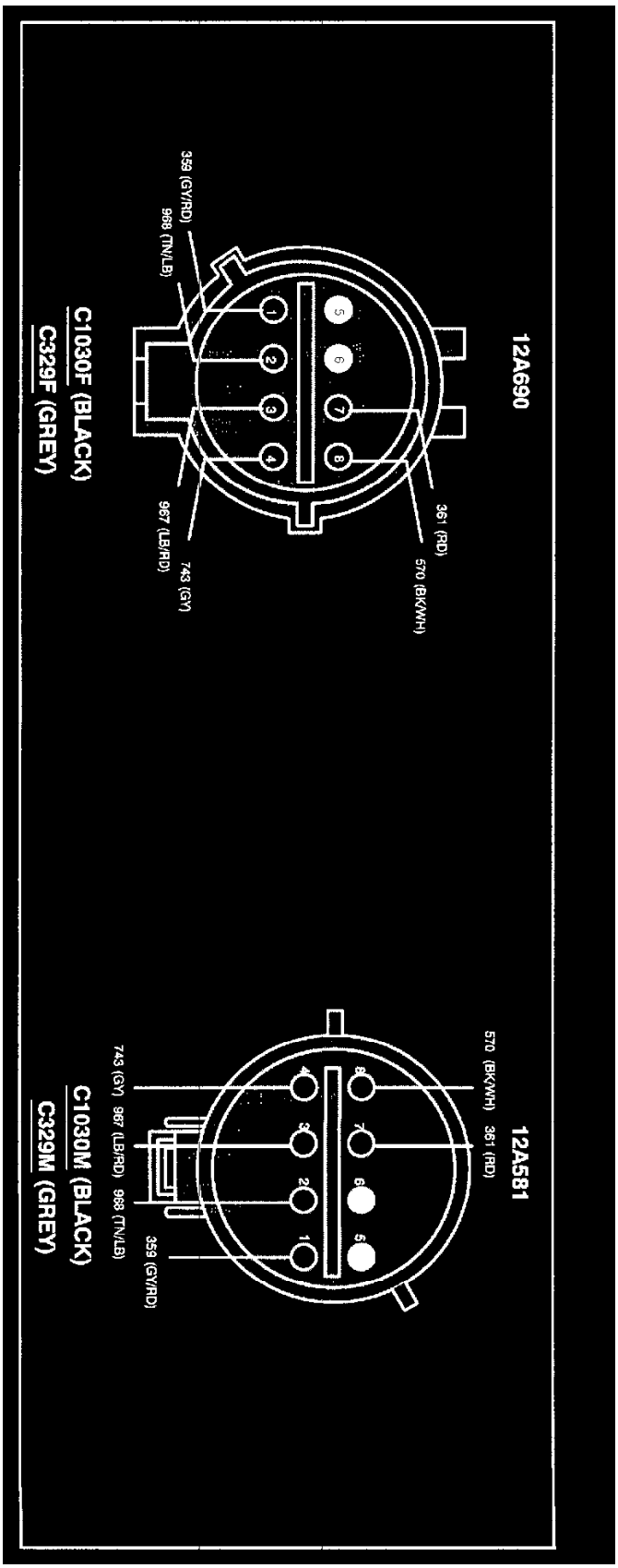

14A200
C323M
544 (VT)
170 (RD/LB)
314 (TN/LB)
313 (WH/YE)
120 (PK/LG)
* 517 (BK/WH)
54 (LG/YE)
543 (DG)
542 (YE)
119 (PK/YE)
117 (PK/BK)
* WITHOUT REMOTE KEYLESS ENTRY
14630
C323F
543 (DG)
542 (YE)
119 (PK/YE)
117 (PK/BK)
544 (VT)
170 (RD/LB)
314 (TN/LB)
313 (WH/YE)
120 (PK/LG)
* 517 (BK/WH)
54 (LG/YE)
* WITHOUT REMOTE KEYLESS ENTRY


14A200
124 (BN)
*120 (PK/LG)
123 (RD)
*119 (PK/YE)
287 (BK/WH)
811 (DG/OG)
805 (WH/LG)
57 (BK)
118 (PK/OG)
465 (WH/LB)
C324M (GREY)
* WITH RKE
14630
124 (BN)
123 (RD)
811 (DG/OG)
805 (WH/LG)
57 (BK)
118 (PK/OG)
465 (WH/LB)
C324F (GREY)

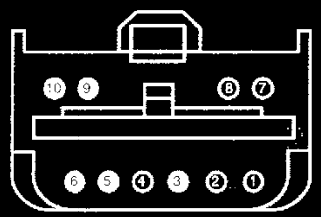

14A200
C325M
117 (PK/BK)
*119 (PK/YE)
543 (DG)
542 (YE)
544 (VT)
170 (RD/LB)
314 (TN/LB)
313 (WH/YE)
120 (PK/LG)
54 (LG/YE)
* WITH RKE
14631
C325F
54 (LG/YE)
517 (BK/WH)
*120 (PK/LG)
313 (WH/YE)
314 (TN/LB)
170 (RD/LB)
544 (VT)
119 (PK/YE)
117 (PK/BK)
542 (YE)
543 (DG)


14A200
C326M (GREY)
57 (BK)
*163 (RD/OG)
118 (PK/OG)
465 (WH/LB)
124 (BN)
123 (RD)
813 (LB/WH)
804 (OG/LG)
* WITH RKE
14631
C326F (GREY)
124 (BN)
123 (RD)
813 (LB/WH)
804 (OG/LG)
57 (BK)
118 (PK/OG)
*163 (RD/OG)
465 (WH/LB)


14A200
C329F (GREY)
85 (BN/LB)
1080 (LG/BK)
1082 (YE/BK)
57 (BK)
1079 (LG/RD)
1081 (YE/RD)
517 (BK/WH)
14C719
C329M (GREY)
57 (BK)
1079 (LG/RD)
1081 (YE/RD)
517 (BK/WH)
85 (BN/LB)
1080 (LG/BK)
1082 (YE/BK)

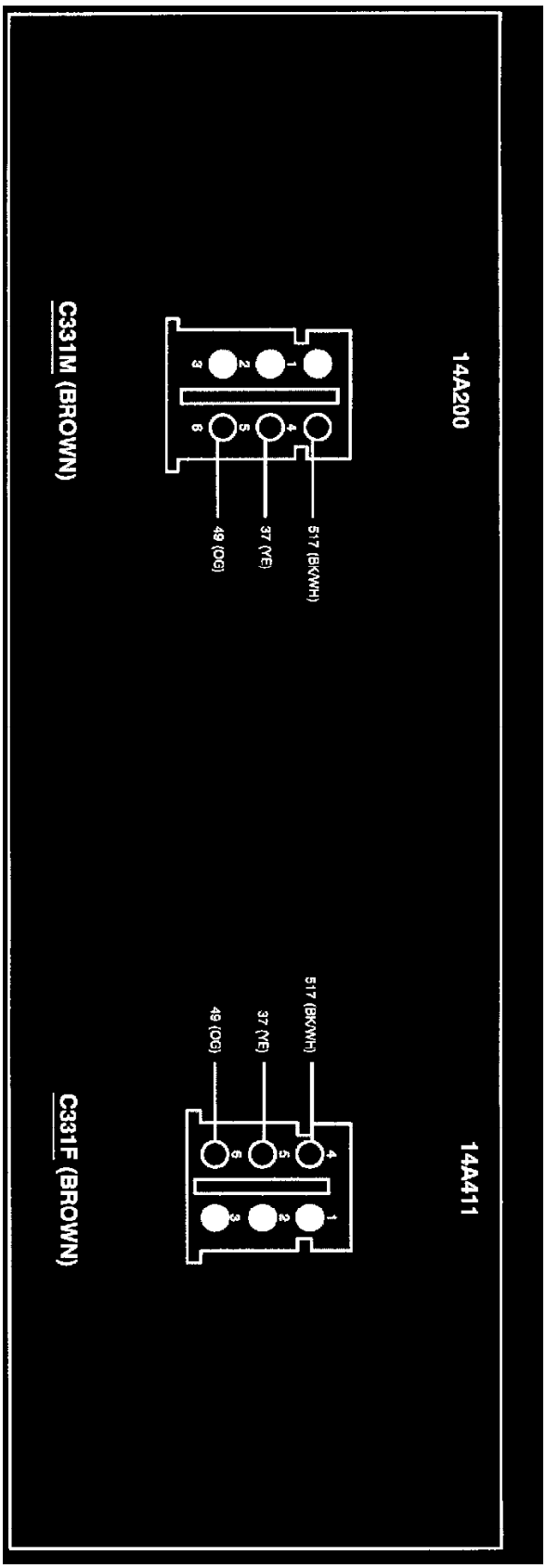

12A690
359 (GY/RD)
968 (TN/LB)
967 (LB/RD)
743 (GY)
361 (RD)
570 (BK/WH)
C1030F (BLACK)
C329F (GREY)
12A581
570 (BK/WH)
361 (RD)
743 (GY)
967 (LB/RD)
968 (TN/LB)
359 (GY/RD)
C1030M (BLACK)
C329M (GREY)

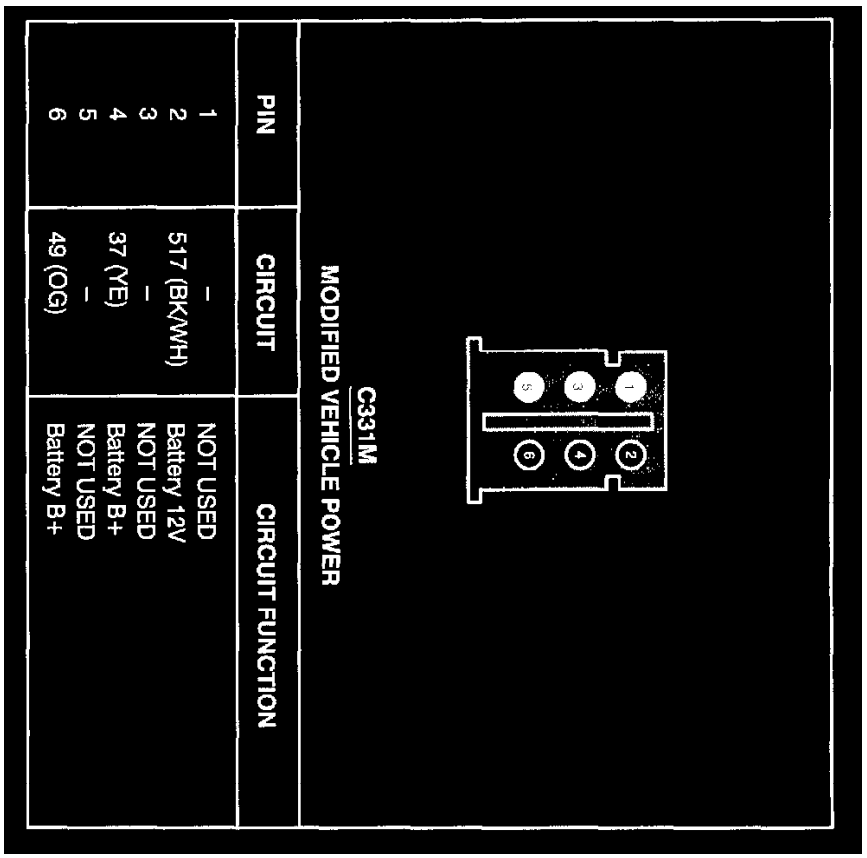
 Copyright © 2009, ALLDATA



C330
MEMORY LOCK MODULE

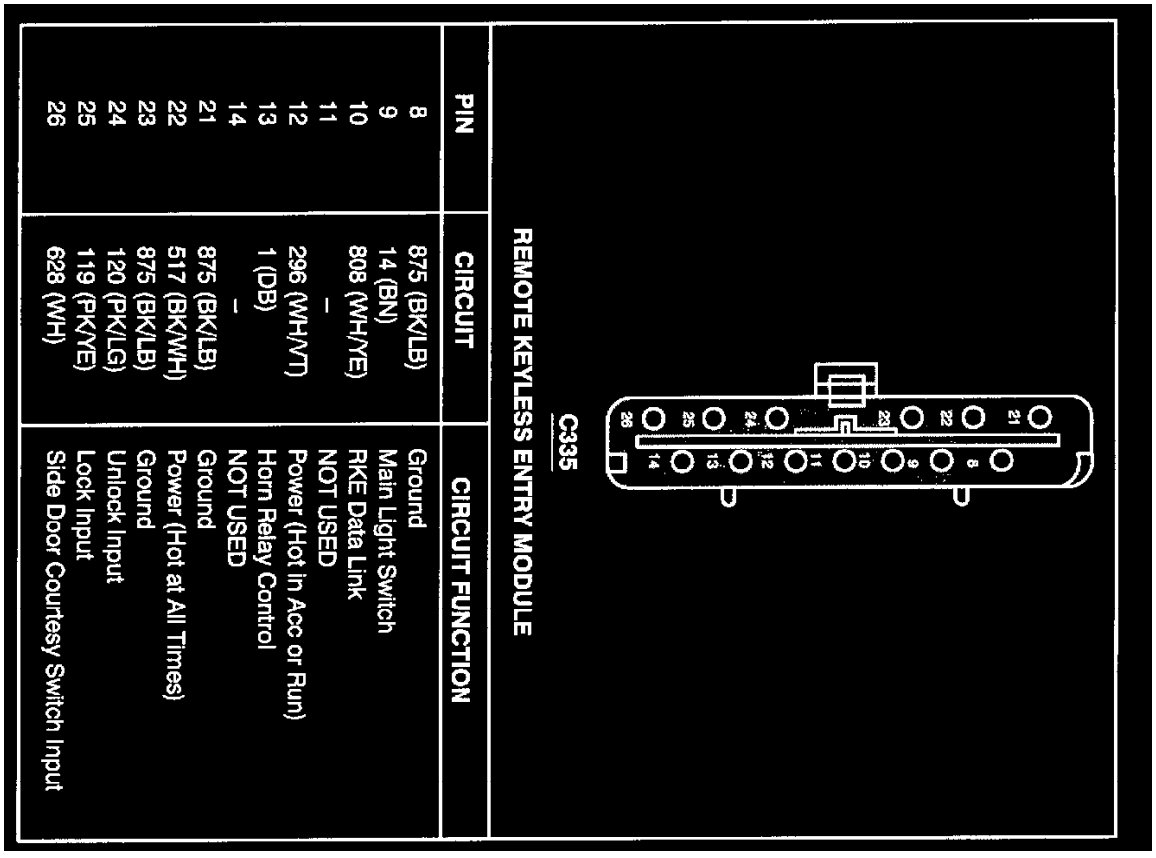
PIN	CIRCUIT	CIRCUIT FUNCTION
1	118 (PK/OG)	Door Lock Actuator (LOCK) Input
2	117 (PK/BK)	Door Lock Actuator (UNLOCK) Input
3	–	NOT USED
4	57 (BK)	Ground
5	–	NOT USED
6	–	NOT USED
7	121 (YE/BK)	Side Door (LOCK) Output
8	517 (BK/WH)	Power (Hot at All Times)
9	–	NOT USED
10	–	NOT USED


14A200
C331M (BROWN)
517 (BK/WH)
37 (YE)
49 (DG)
14A411
C331F (BROWN)
517 (BK/WH)
37 (YE)
49 (DG)



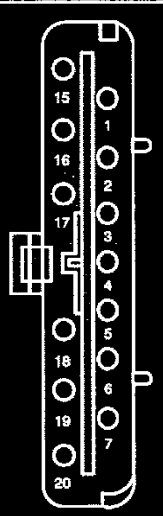
C331M
MODIFIED VEHICLE POWER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	517 (BK/WH)	Battery 12V
3	–	NOT USED
4	37 (YE)	Battery B+
5	–	NOT USED
6	49 (OG)	Battery B+



C335
REMOTE KEYLESS ENTRY MODULE

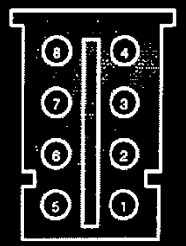
PIN	CIRCUIT	CIRCUIT FUNCTION
8	875 (BK/LB)	Ground
9	14 (BN)	Main Light Switch
10	808 (WH/YE)	RKE Data Link
11	–	NOT USED
12	296 (WH/VT)	Power (Hot in Acc or Run)
13	1 (DB)	Horn Relay Control
14	–	NOT USED
21	875 (BK/LB)	Ground
22	517 (BK/WH)	Power (Hot at All Times)
23	875 (BK/LB)	Ground
24	120 (PK/LG)	Unlock Input
25	119 (PK/YE)	Lock Input
26	628 (WH)	Side Door Courtesy Switch Input



C336

REMOTE KEYLESS ENTRY MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	884 (YE/BK)	Power (Hot at All Times)
3	118 (PK/OG)	Right Front Door Lock
4	163 (RD/OG)	Left Front Door Lock Motor
5	117 (PK/BK)	Door Lock Control
6	121 (YE/BK)	Side Door Lock Control
7	53 (BK/LB)	Interior Lamps
15	–	NOT USED
16	884 (YE/BK)	Power (Hot at All Times)
17	118 (PK/OG)	Side/Rear Door Lock Return
18	117 (PK/BK)	Door Lock Control
19	121 (YE/BK)	Side Door Lock Control
20	53 (BK/LB)	Interior Lamps



C337

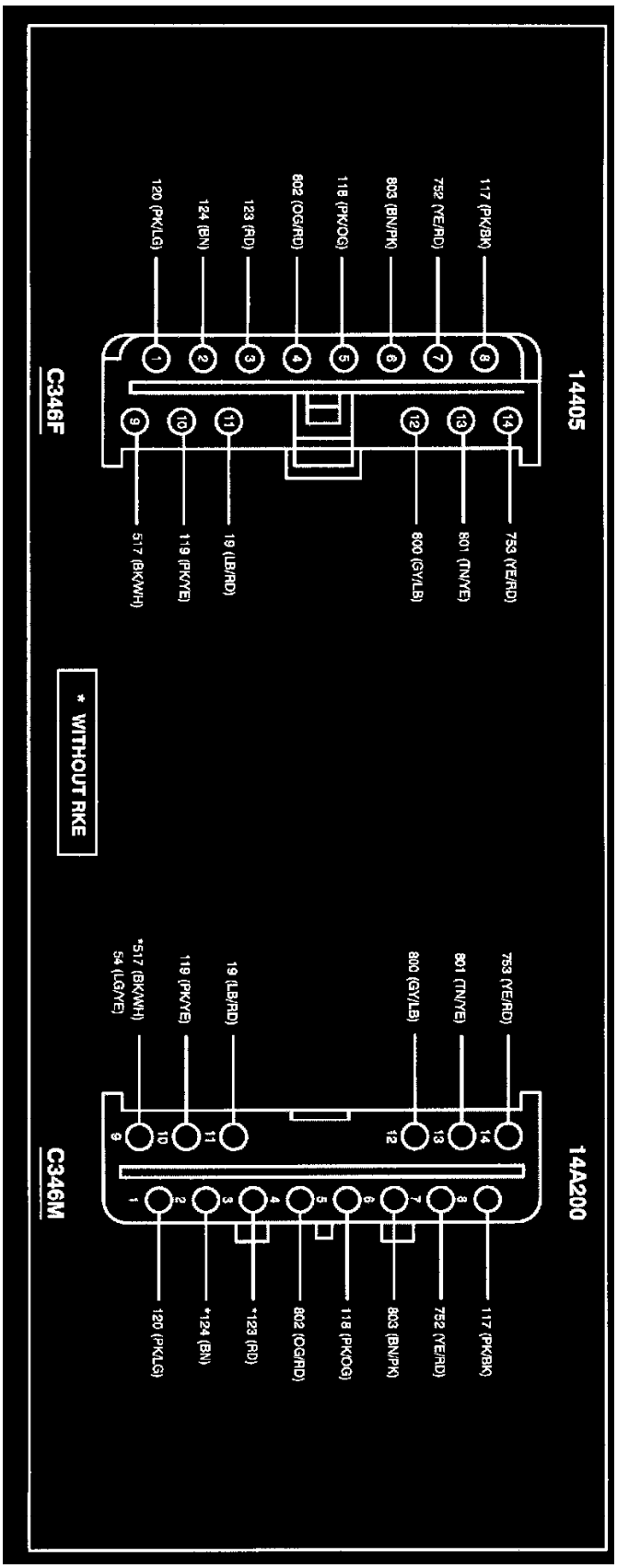
DRIVER SEAT REGULATOR CONTROL SWITCH

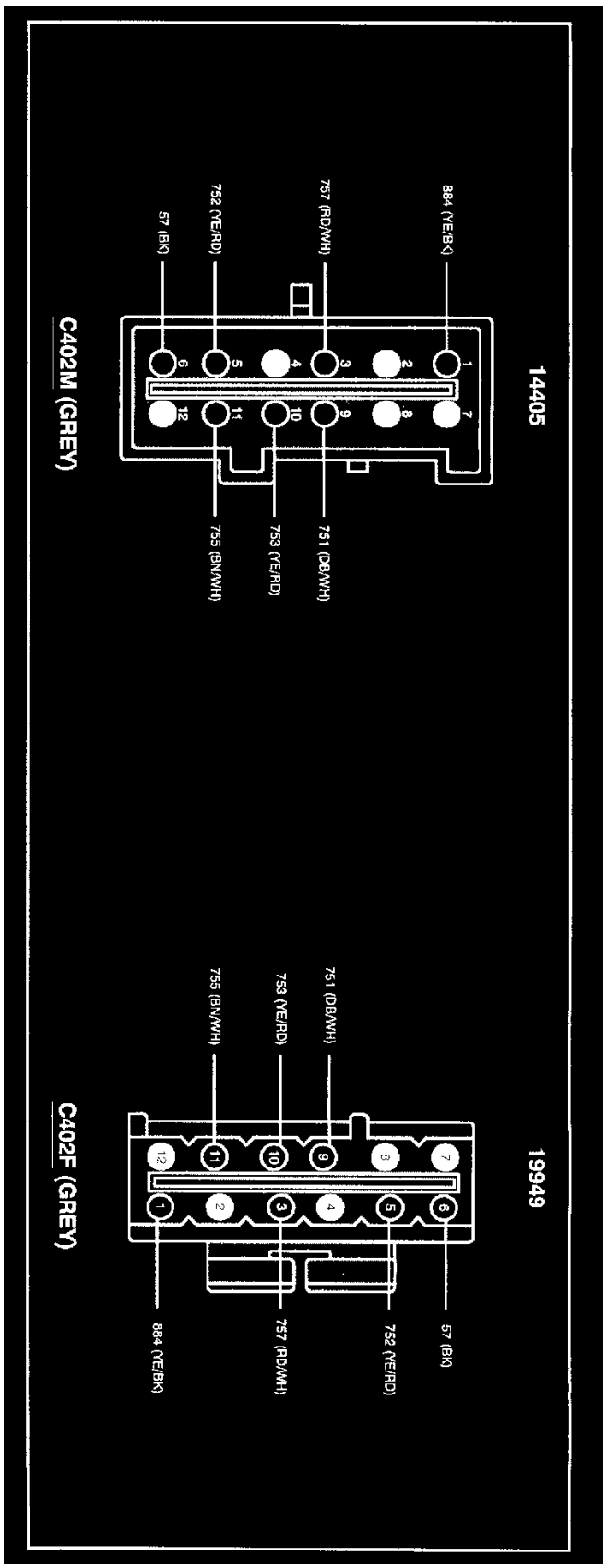
PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	981 (RD/WH)	FWD/RWD Motor Control
3	517 (BK/WH)	Battery B+
4	983 (RD/LG)	Rear Height Motor Control
5	980 (YE/WH)	FWD/RWD Motor Control
6	979 (RD/LB)	Front Height Motor Control
7	982 (YE/LG)	Rear Height Motor Control
8	990 (YE/LB)	Front Height Motor Control

C338

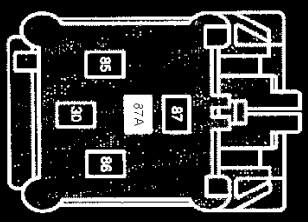
DRIVER SEAT MOTOR ASSEMBLY

PIN	CIRCUIT	CIRCUIT FUNCTION
1	979 (RD/LB)	Front Height Motor Input/Output
2	990 (YE/LB)	Front Height Motor Input/Output
3	981 (RD/WH)	FWD/RWD Motor Input/Output
4	982 (YE/LG)	Rear Height Motor Input/Output
5	983 (RD/LG)	Rear Height Motor Input/Output
6	980 (YE/WH)	FWD/RWD Motor Input/Output


14405
C346F
120 (PK/LG)
124 (BN)
123 (RD)
802 (OG/RD)
118 (PK/OG)
803 (BN/PK)
752 (YE/RD)
117 (PK/BK)
517 (BK/WH)
119 (PK/YE)
19 (LB/RD)
800 (GY/LB)
801 (TN/YE)
753 (YE/RD)
* WITHOUT RKE
14A200
C346M
753 (YE/RD)
801 (TN/YE)
800 (GY/LB)
19 (LB/RD)
119 (PK/YE)
*517 (BK/WH)
54 (LG/YE)
117 (PK/BK)
752 (YE/RD)
803 (BN/PK)
118 (PK/OG)
802 (OG/RD)
*123 (RD)
*124 (BN)
120 (PK/LG)

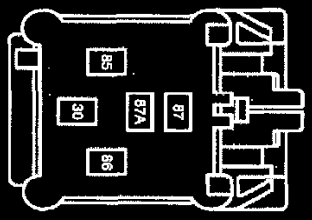

14405
884 (YE/BK)
757 (RD/WH)
752 (YE/RD)
57 (BK)
751 (DB/WH)
753 (YE/RD)
755 (BN/WH)
C402M (GREY)
19949
751 (DB/WH)
753 (YE/RD)
755 (BN/WH)
57 (BK)
752 (YE/RD)
757 (RD/WH)
884 (YE/BK)
C402F (GREY)

C403
AUXILIARY BLOWER MOTOR RELAY

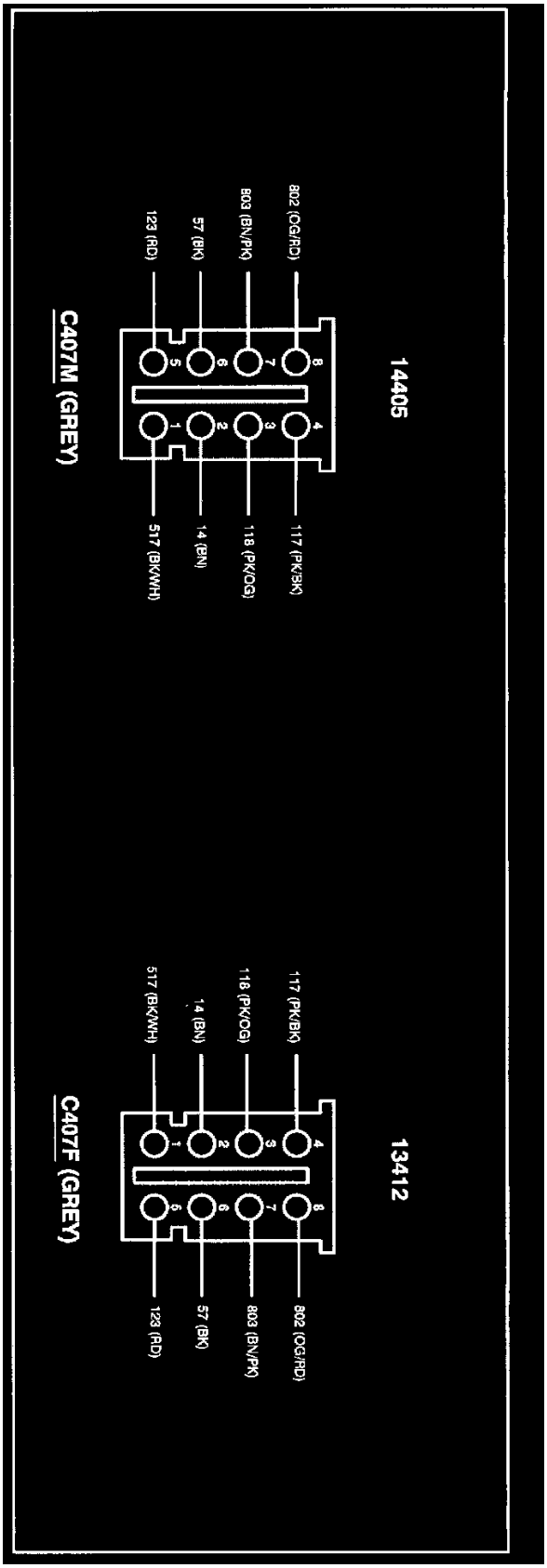


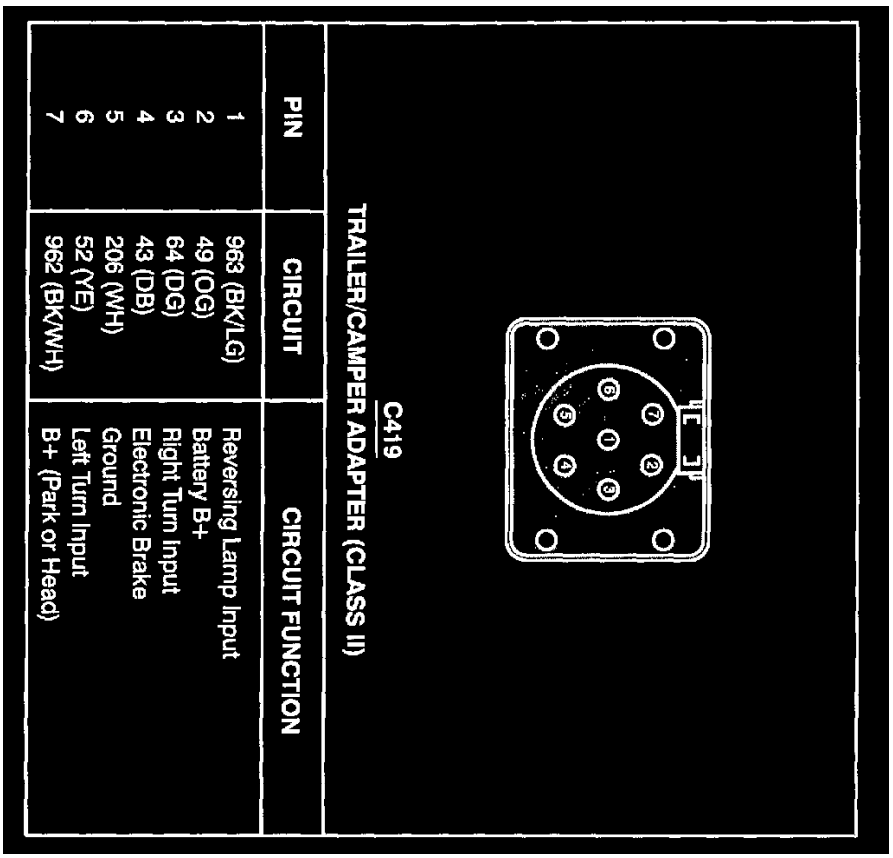
PIN	CIRCUIT	CIRCUIT FUNCTION
30	884 (YE/BK)	Power 12V
85	753 (YE/RD)	Function Selector Switch Input
86	57 (BK)	Ground
87	371 (PK/WH)	Auxiliary Blower Motor Output
87a	–	NOT USED

C404
AUXILIARY BLOWER MOTOR RELAY



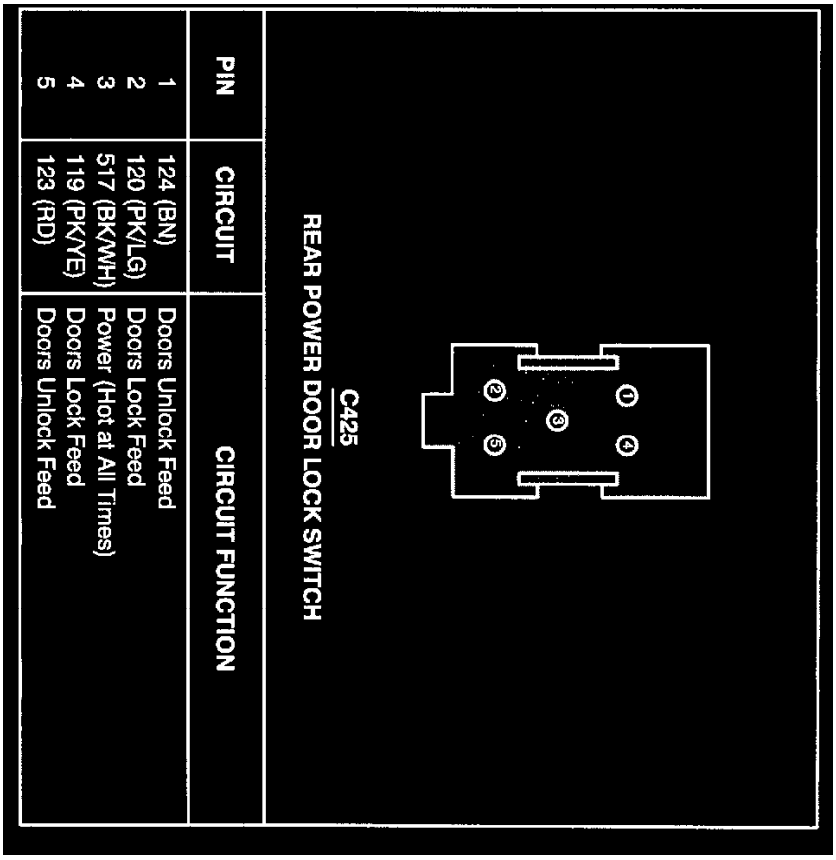
PIN	CIRCUIT	CIRCUIT FUNCTION
30	261 (OG/BK)	Auxiliary Blower Motor Input
85	753 (YE/RD)	Function Selector Switch Input
86	757 (RD/WH)	Auxiliary Heater Blower Switch Input
87	57 (BK)	Ground
87A	515 (OG/RD)	Auxiliary Blower Resistor Output


14405
802 (OG/RD)
803 (BN/PK)
57 (BK)
123 (RD)
117 (PK/BK)
118 (PK/OG)
14 (BN)
517 (BK/WH)
C407M (GREY)
13412
117 (PK/BK)
118 (PK/OG)
14 (BN)
517 (BK/WH)
802 (OG/RD)
803 (BN/PK)
57 (BK)
123 (RD)
C407F (GREY)



C419
TRAILER/CAMPER ADAPTER (CLASS II)

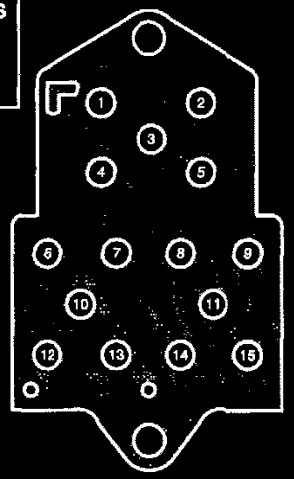
PIN	CIRCUIT	CIRCUIT FUNCTION
1	963 (BK/LG)	Reversing Lamp Input
2	49 (OG)	Battery B+
3	64 (DG)	Right Turn Input
4	43 (DB)	Electronic Brake
5	206 (WH)	Ground
6	52 (YE)	Left Turn Input
7	962 (BK/WH)	B+ (Park or Head)



C425
REAR POWER DOOR LOCK SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	124 (BN)	Doors Unlock Feed
2	120 (PK/LG)	Doors Lock Feed
3	517 (BK/WH)	Power (Hot at All Times)
4	119 (PK/YE)	Doors Lock Feed
5	123 (RD)	Doors Unlock Feed

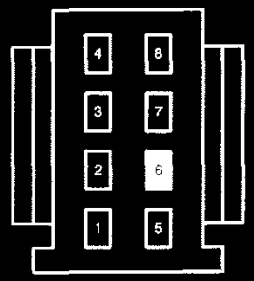
* WITH REMOTE/KEYLESS ENTRY
** WITHOUT REMOTE/ KEYLESS ENTRY



C500
MASTER WINDOW/DOOR LOCK CONTROL SWITCH

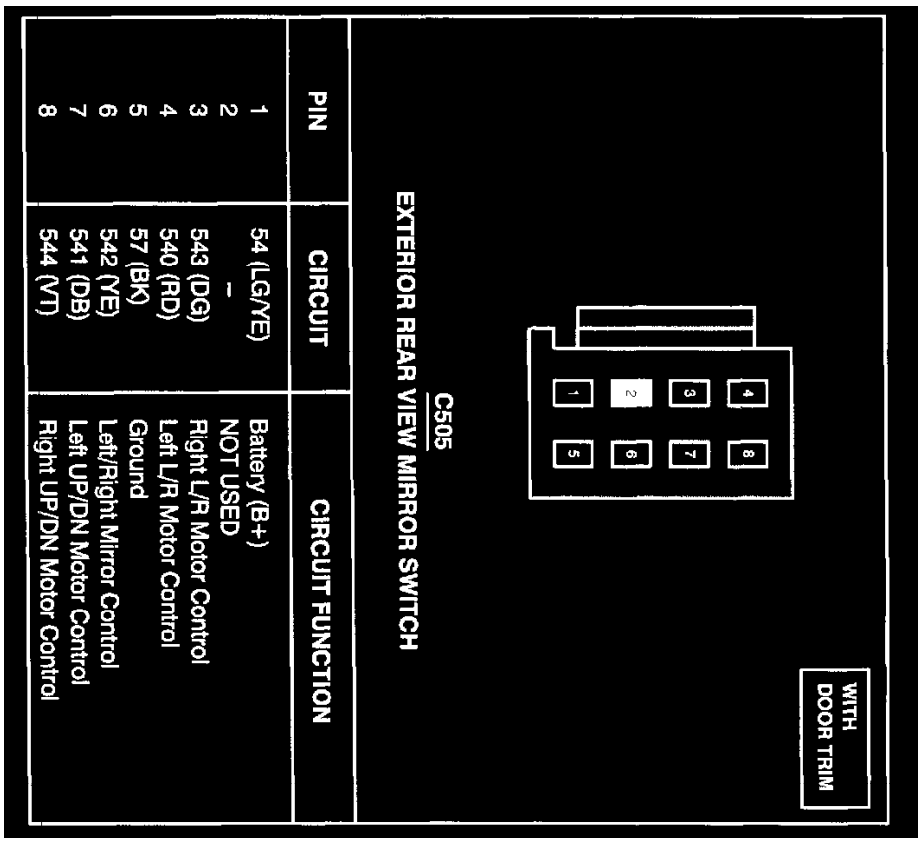
PIN	CIRCUIT	CIRCUIT FUNCTION
*1	–	NOT USED
**1	124 (BN)	Doors Unlock Feed
*2	120 (PK/LG)	Doors Unlock Feed
**2	118 (PK/OG)	Doors Lock Feed
*3	54 (LG/YE)	Power (Hot at All Times)
**3	517 (BK/WH)	Power (Hot at All Times)
*4	119 (PK/YE)	Doors Lock Feed
**4	117 (PK/BK)	Doors Unlock Feed
*5	–	NOT USED
**5	123 (RD)	Door Lock Input
6	226 (WH/BK)	Power Window Motor Up Feed
7	57 (BK)	Ground
8	314 (TN/LB)	Power Window Motor Up Feed
9	57 (BK)	Ground
10	170 (RD/LB)	Power (Acc or Run)
11	170 (RD/LB)	Power (Acc or Run)
12	57 (BK)	Ground
13	227 (YE)	Power Window Motor Down Feed
14	57 (BK)	Ground
15	313 (WH/YE)	Power Window Motor Down Feed

WITHOUT DOOR TRIM



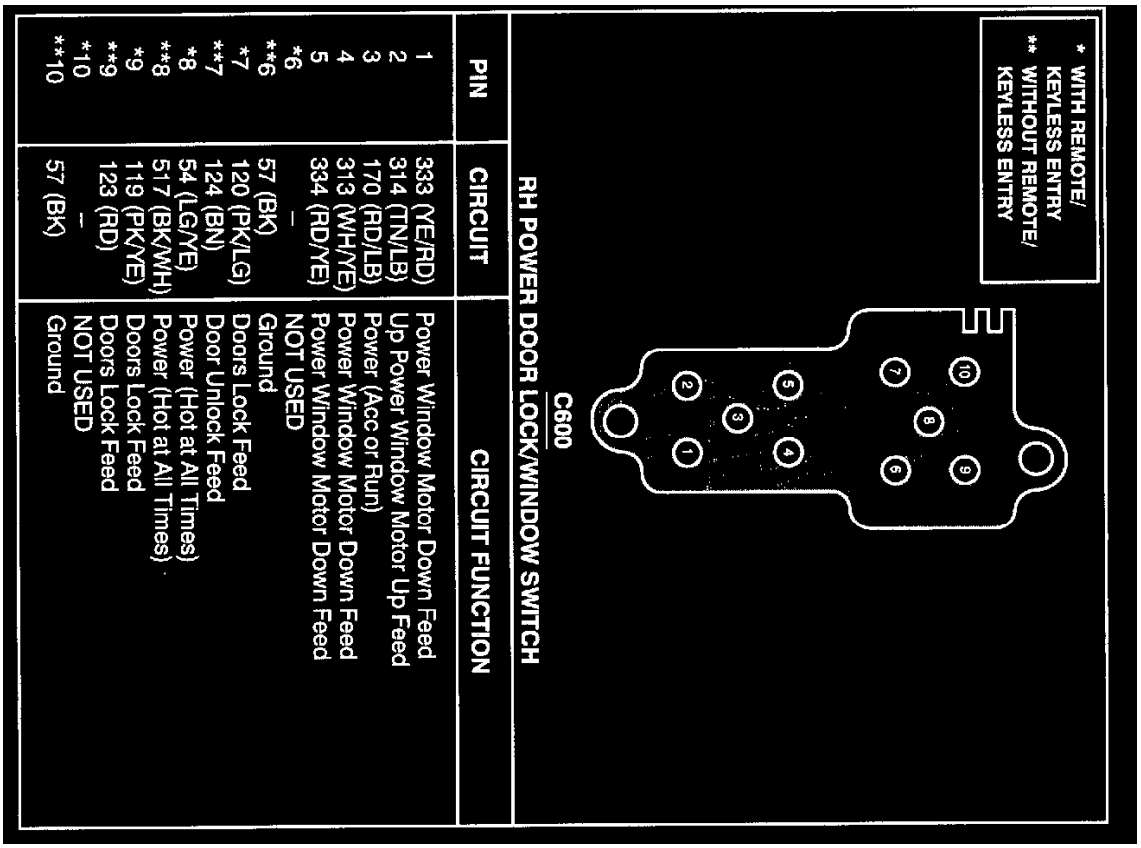
C508
EXTERIOR REAR VIEW MIRROR SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	54 (LG/YE)	Battery (B+)
3	544 (VT)	Right UP/DN Motor Control
4	541 (DB)	Left UP/DN Motor Control
5	542 (YE)	Left/Right Mirror Control
6	–	NOT USED
7	543 (DG)	Right L/R Motor Control
8	540 (RD)	Left L/R Motor Control



C505
EXTERIOR REAR VIEW MIRROR SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	54 (LG/YE)	Battery (B+)
2	—	NOT USED
3	543 (DG)	Right L/R Motor Control
4	540 (RD)	Left L/R Motor Control
5	57 (BK)	Ground
6	542 (YE)	Left/Right Mirror Control
7	541 (DB)	Left UP/DN Motor Control
8	544 (VT)	Right UP/DN Motor Control

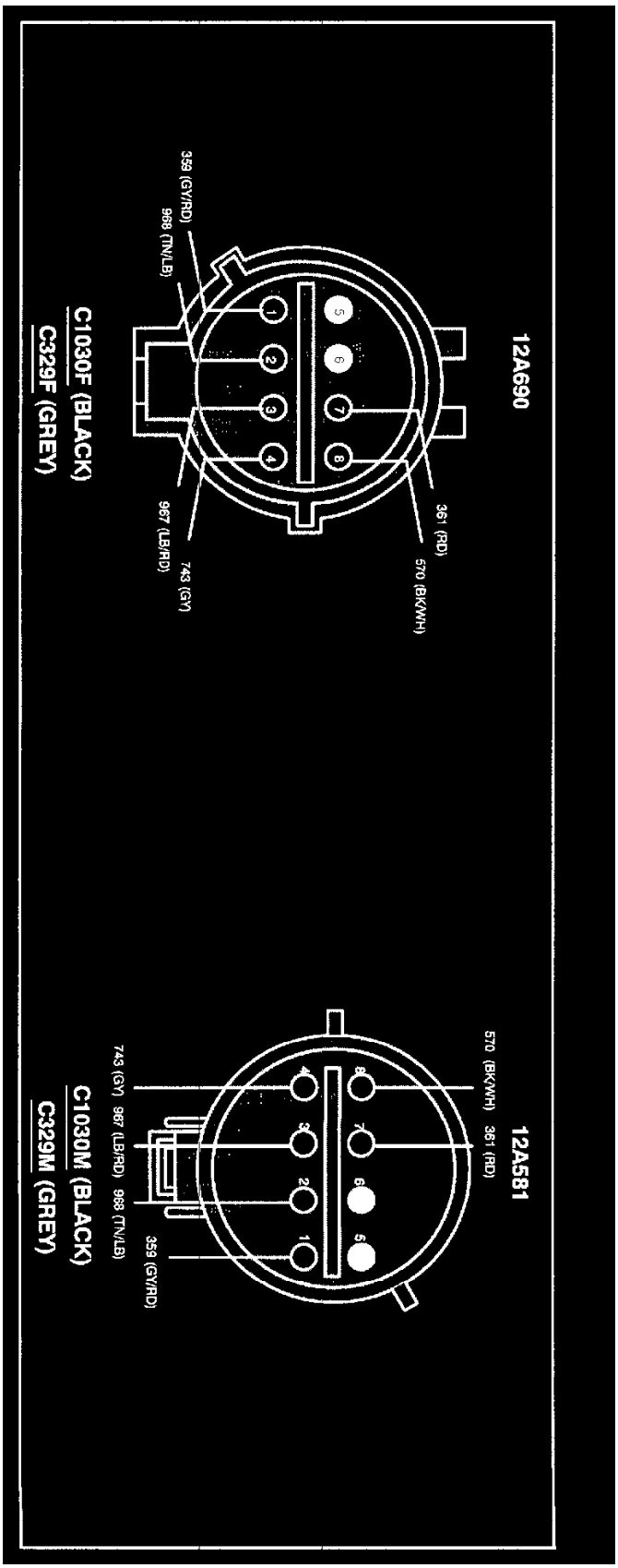


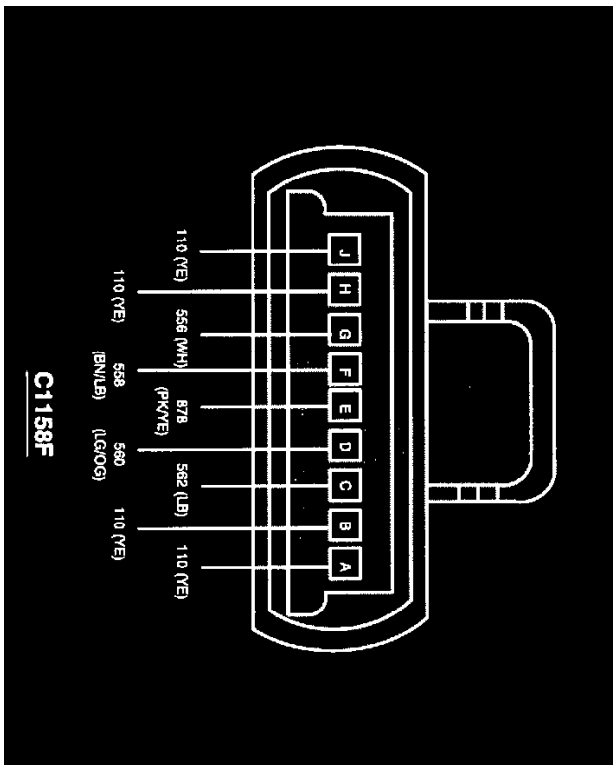
C600
RH POWER DOOR LOCK/WINDOW SWITCH

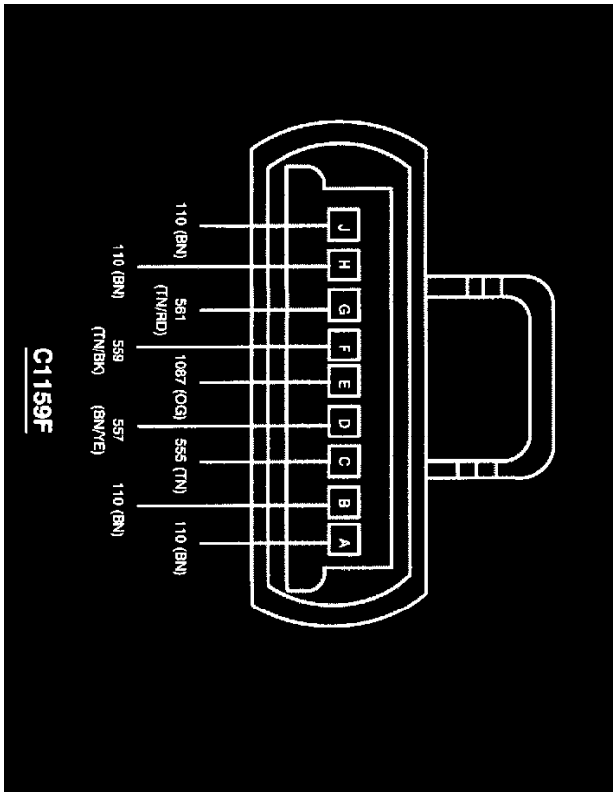
PIN	CIRCUIT	CIRCUIT FUNCTION
1	333 (YE/RD)	Power Window Motor Down Feed
2	314 (TN/LB)	Up Power Window Motor Up Feed
3	170 (RD/LB)	Power (Acc or Run)
4	313 (WH/YE)	Power Window Motor Down Feed
5	334 (RD/YE)	Power Window Motor Down Feed
*6	—	NOT USED
**6	57 (BK)	Ground
*7	120 (PK/LG)	Doors Lock Feed
**7	124 (BN)	Door Unlock Feed
*8	54 (LG/YE)	Power (Hot at All Times)
**8	517 (BK/WH)	Power (Hot at All Times)
*9	119 (PK/YE)	Doors Lock Feed
**9	123 (RD)	Doors Lock Feed
*10	—	NOT USED
**10	57 (BK)	Ground

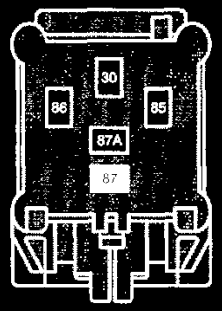
C1021
TURBINE SHAFT SPEED (TSS) SENSOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1	359 (GY/RD)	Sensor Signal Return
2	970 (DG/WH)	Turbine Shaft Speed (TSS) Sensor to Powertrain Control Module (PCM)


12A690
359 (GY/RD)
968 (TN/LB)
967 (LB/RD)
743 (GY)
361 (RD)
570 (BK/WH)
C1030F (BLACK)
C329F (GREY)
12A581
570 (BK/WH)
361 (RD)
743 (GY)
967 (LB/RD)
968 (TN/LB)
359 (GY/RD)
C1030M (BLACK)
C329M (GREY)


C1158F
J
H
G
F
E
D
C
B
A
110 (YE)
110 (YE)
556 (MH)
558 (BN/LB)
878 (PK/YE)
560 (LG/OG)
562 (LB)
110 (YE)
110 (YE)

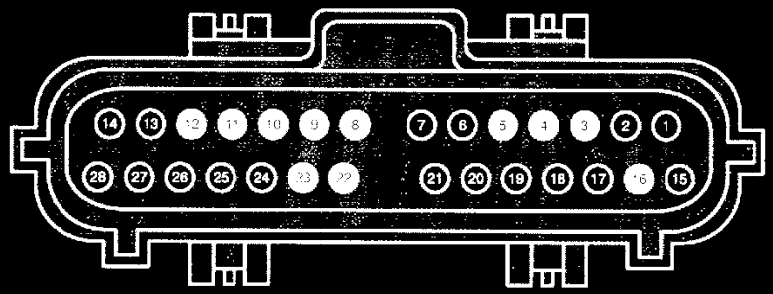

C1159F
J
H
G
F
E
D
C
B
A
110 (BN)
110 (BN)
561 (TN/RD)
559 (TN/BK)
1087 (CG)
557 (BN/YE)
555 (TN)
110 (BN)
110 (BN)



C232

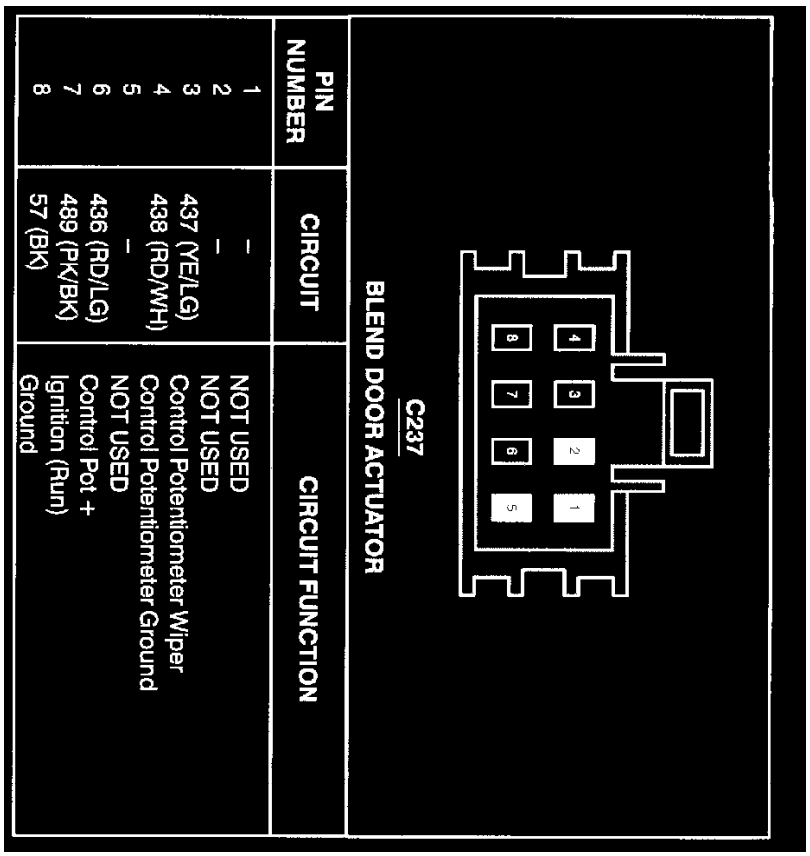
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
30	57 (BK)	Ground
85	640 (RD/YE)	Power (Hot in Start or Run)
86	599 (PK/LG)	Relay Control Output
87	–	NOT USED
87A	128 (VT/YE)	Power (Hot in Start or Run)

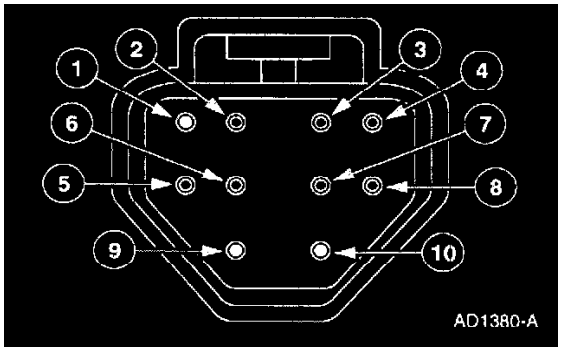


C200 (GRAY)
ELECTRONIC CRASH SENSOR (ECS) MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	614 (GY/OG)	Driver Air Bag	15	615 (GY/WH)	Driver Air Bag
2	298 (VT/OG)	Power (Hot in Run)	16	–	NOT USED
3	–	NOT USED	17	937 (RD/WH)	Power (Hot at All Times)
4	–	NOT USED	18	875 (BK/LB)	Ground
5	–	NOT USED	19	70 (LB/WH)	Data Link Connector (DLC)
6	619 (PK/WH)	Center Air Bag Sensor	20	1084 (PK)	Air Bag Bracket
7	608 (BK/YE)	Air Bag Indicator	21	875 (BK/LB)	Ground
8	–	NOT USED	22	–	NOT USED
9	–	NOT USED	23	–	NOT USED
10	–	NOT USED	24	1079 (LG/RD)	Pretensioner Feed (Driver)
11	–	NOT USED	25	1080 (LG/BK)	Pretensioner Return (Driver)
12	–	NOT USED	26	1081 (YE/RD)	Pretensioner Return (Passenger)
13	159 (RD/PK)	Courtesy Lamp/Warning Buzzer	27	1082 (YE/BK)	Pretensioner Feed (Passenger)
14	607 (LB/OG)	Passenger Air Bag	28	616 (PK/BK)	Passenger Air Bag



4R70W Transmission

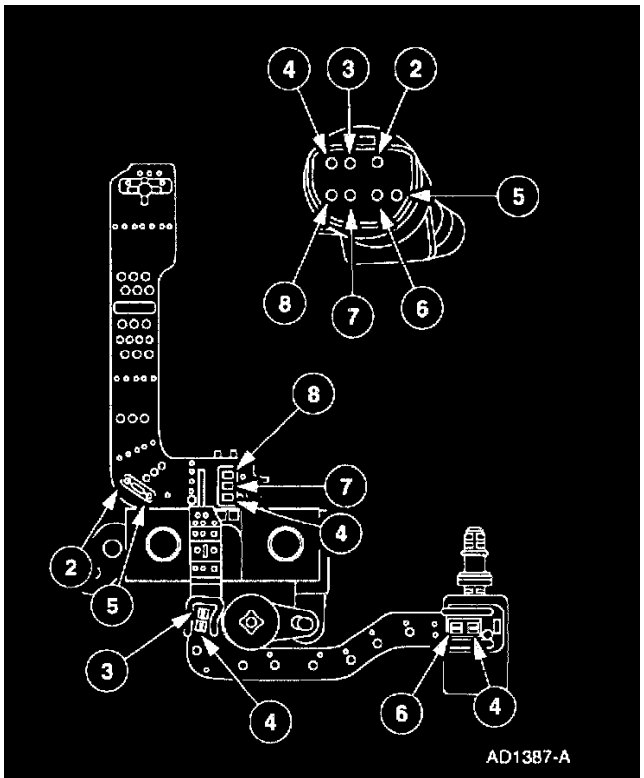


1 Of 2

Pin Number	Circuit	Circuit Function
1	—	NOT USED
2	—	Signal Return
3	—	Torque Converter Clutch (TCC) Solenoid
4	—	Vehicle Power
5	—	Transmission Fluid Temperature (TFT) Input
6	—	Electronic Pressure Control (EPC) Solenoid
7	—	SSA
8	—	SSB
9	—	NOT USED
10	—	NOT USED

2 Of 2

Transmission Vehicle Harness Connector



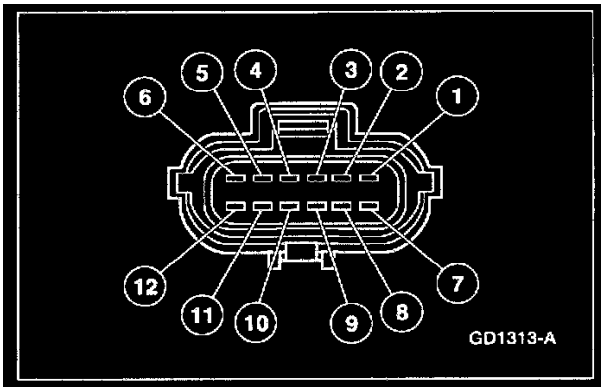
Item	Description
1	NOT USED
2	TFT Return

1 Of 2

Item	Description
3	TCC
4	SS VPWR
5	TFT
6	EPC Solenoid
7	SSA
8	SSB
9	NOT USED
10	NOT USED

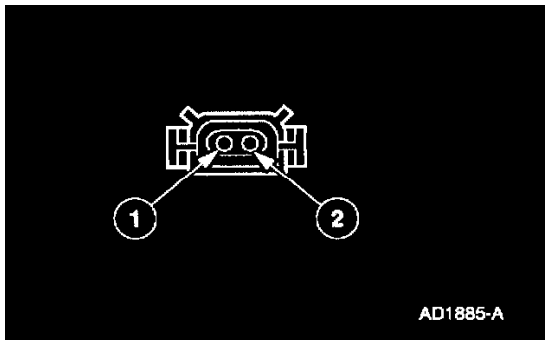
2 Of 2

Transmission Internal Harness Connector



Pin Number	Circuit	Circuit Function
1	—	NOT USED
2	—	Signal Return
3	—	TR3A
4	—	TR1
5	—	TR2
6	—	TR4
7	—	Ground
8	—	Neutral Sense
9	—	Fused Power Feed
10	—	Starter Control
11	—	Back Up
12	—	Starter to Starter Interrupt Relay

Digital Transmission Range (TR) Sensor Connector



1 Of 2

Pin Number	Circuit	Circuit Function
1	—	Output Shaft Speed Sensor (OSS)
2	—	Signal Return

2 Of 2

Output Shaft Speed Sensor (OSS) Harness Connector

Selector Position	PID: TR	PID: TR__D				PID: TR__V (volts)
		TR4	TR3A	TR2	TR1	TR3A (PCM pin 64 to sigrtn)
PARK	P/N	0	0	0	0	0.0 volts
In Between	REV	0	1	0	0	1.3 - 1.8 Volts
REVERSE	REV	1	1	0	0	1.3 - 1.8 Volts
In Between	REV	0	1	0	0	1.3 - 1.8 Volts
NEUTRAL	NTRL	0	1	1	0	1.3 - 1.8 Volts
In Between	O/D [a]	1	1	1	0	1.3 - 1.8 Volts
OVER DRIVE	O/D[a]	1	1	1	1	1.3 - 1.8 Volts
In Between	Man 2 [b]	1	0	1	1	0.0 Volts
Manual 2	Man 2[b]	1	0	0	1	0.0 Volts

1 Of 2

Selector Position	PID: TR	PID: TR__D				PID: TR__V (volts)
		TR4	TR3A	TR2	TR1	TR3A (PCM pin 64 to sigrtn)
In-Between	Man 2[b]	1	0	1	1	0.0 Volts
Manual 1	Man 1	0	0	1	1	0.0 Volts

a Will read "Drive" if O/D is canceled
b Man 2 = Drive for AX4S and AX4N applications

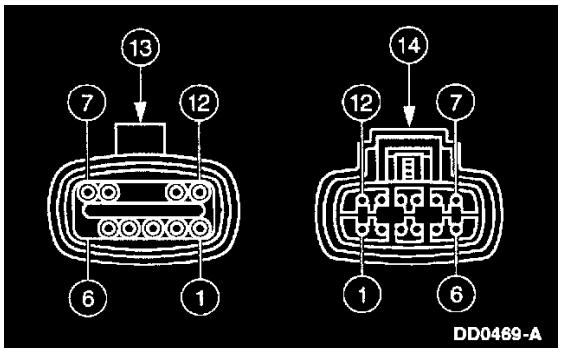
A. TR__V is the voltage at the PCM pin 64 (TR3A Circuit) to signal return.
B. "In Between" reading could be caused by a shift cable or digital TR sensor misaligned or a digital TR sensor circuit failure of TR1, TR2, TR3A, or TR4.
C. TR__D: 1= Open digital TR switch, 0= Closed digital TR switch.
D. Breakout Box Readings: Taken from PCM signal pins for TR1, TR2, TR3A, TR4 to signal return.
- **Voltages for TR1, TR2, TR4:**
- 0 = 0.0 volts (circuit shorted to ground)
- 1 = 9.0 - 14.0 volts (open circuit).
- **Voltage for TR3A:**
- 0 = 0.0 volts (circuit shorted to ground).
- 1 = 1.3 - 1.8 volts (open circuit).
- 1.8 - 5.0 volts = Invalid Reading (open in wires or bad resistor in digital TR sensor).

2 Of 2

Digital Transmission Range (TR) Sensor Diagnosis Chart

4R100

For connector number and pin location, refer to the Wiring Diagram.

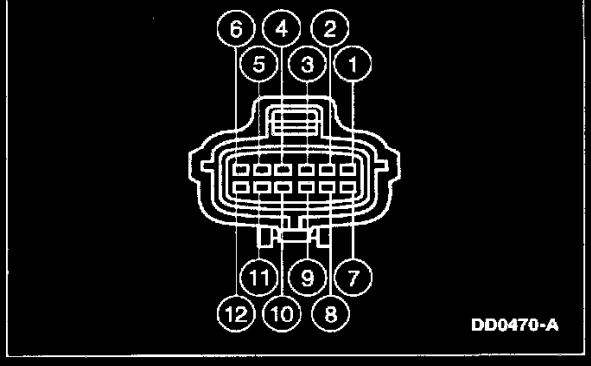


1 Of 2

12-Way Connector Pin	Description	Connector Pin		
		Gas	Diesel (Cal.)	Diesel (49-State)
1	Vehicle Power (VPWR)	71, 97	71, 97	71, 97
2	Shift Solenoid B	1	11	1
3	Shift Solenoid A	27	6	27
4	Torque Converter Clutch	54	54	28
5	Coast Clutch Solenoid	53	20	53
6	—	—	—	—
7	Transmission Fluid Temperature Sensor	37	37	37
8	Signal Return (SIG RTN)	91	91	91
9	—	—	—	—
10	—	—	—	—
11	Electronic Pressure Control	81	81	81
12	Electronic Pressure Control Power	71, 97	71, 97	71, 97
13	Solenoid Body Connector	—	—	—
14	Harness Connector	—	—	—

2 Of 2

Transmission Vehicle Harness Connector



Pin Number	Circuit Function	EEC-V Pin
1	Not Used	—
2	SIG RTN	91
3	TR3A	64
4	TR1	34 (17 Diesel)
5	TR2	49
6	TR4	50
7	Not Used	—
8	Not Used	—

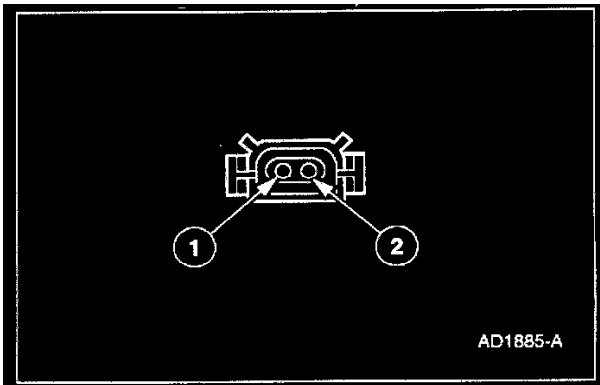
(Continued)

1 Of 2

Pin Number	Circuit Function	EEC-V Pin
9	FSD PWR FD	—
10	STR Control	—
11	Back Up	—
12	STR to INT	—

2 Of 2

Digital Transmission Range (TR) Sensor Connector



Pin Number	Circuit	Circuit Function
1	59	Turbine Shaft Speed Sensor (TSS)
2	91	Signal Return

Turbine Shaft Speed Sensor (TSS) Harness Connector

Selector Position	PID: TR	PID: TR__D				PID: TR__V (volts)
		TR4	TR3A	TR2	TR1	TR3A (PCM pin 64 to sigrtn)
PARK	P/N	0	0	0	0	0.0 volts
In Between	REV	0	1	0	0	1.3 - 1.8 Volts
REVERSE	REV	1	1	0	0	1.3 - 1.8 Volts
In Between	REV	0	1	0	0	1.3 - 1.8 Volts
NEUTRAL	NTRL	0	1	1	0	1.3 - 1.8 Volts
In Between	O/D [a]	1	1	1	0	1.3 - 1.8 Volts
OVERDRIVE	O/D[a]	1	1	1	1	1.3 - 1.8 Volts
In Between	Man 2	1	0	1	1	0.0 Volts

1 Of 2

Selector Position	PID: TR	PID: TR__D				PID: TR__V (volts)
		TR4	TR3A	TR2	TR1	TR3A (PCM pin 64 to sigrtn)
Manual 2	Man 2	1	0	0	1	0.0 Volts
In Between	Man 2	1	0	1	1	0.0 Volts
Manual 1	Man 1	0	0	1	1	0.0 Volts

a Will read "Drive" if O/D is canceled

A. TR__V is the voltage at the PCM pin 64 (TR3A Circuit) to signal return.

B. "In Between" reading could be caused by a shift cable or digital TR sensor misaligned or a digital TR sensor circuit failure of TR1, TR2, TR3A, or TR4.

C. TR__D: 1= Open digital TR switch, 0= Closed digital TR switch.

D. Breakout Box Readings: Taken from PCM signal pins for TR1, TR2, TR3A, TR4 to signal return.

- **Voltages for TR1, TR2, TR4:**
- 0 = 0.0 volts (circuit shorted to ground)
- 1 = 9.0 - 14.0 volts (open circuit).
- **Voltage for TR3A:**
- 0 = 0.0 volts (circuit shorted to ground).
- 1 = 1.3 - 1.8 volts (open circuit).
- 1.8 - 5.0 volts = Invalid Reading (open in wires or bad resistor in digital TR sensor).

2 Of 2

Digital Transmission Range (TR) Sensor Diagnosis Chart

a Will read "Drive" if O/D is canceled

A. TR_V is the voltage at the PCM pin 64 (TR3A Circuit) to signal return.

B. "In Between" reading could be caused by a shift cable or digital TR sensor misaligned or a digital TR sensor circuit failure of TR1, TR2, TR3A or TR4.

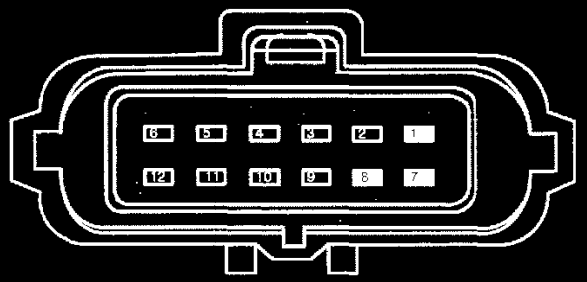
C. TR_D: 1-Open digital TR switch, 0-Closed digital TR switch.

D. Breakout Box Readings: Taken from PCM signal pins for TR1, TR2, TR3A, TR4 to signal return.

^ Voltages for TR1, TR2, TR4:
- 0 = 0.0 volts (circuit shorted to ground)
- 1 = 9.0 - 14.0 volts (open circuit).

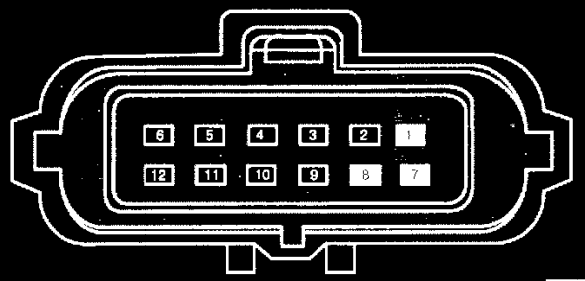
^ Voltage for TR3A:
- 0 = 0.0 volts (circuit shorted to ground).
- 1 = 1.3 - 1.8 volts (open circuit).
- 1.8 - 5.0 volts = Invalid Reading (open in wires or bad resistor in digital TR sensor).

4R70W



C115
DIGITAL TRANSMISSION RANGE (DTR) SENSOR

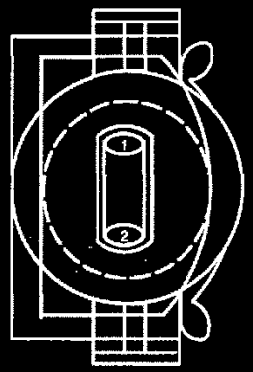
PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	199 (LB/YE)	TR3A Signal to PCM
4	1144 (WH/YE)	TR1 Signal to PCM
5	1145 (DB/WH)	TR2 Signal to PCM
6	1146 (LG/RD)	TR4 Signal to PCM
7	–	NOT USED
8	–	NOT USED
9	298 (VT/OG)	Fused Power Feed (Hot in Run)
10	32 (RD/LB)	Starter Relay Enable
11	140 (BK/PK)	Reversing Lamp Output (Hot in Reverse)
12	1093 (TN/RD)	Start Signal from Steering Column/ Ignition/Lighting Control Module



4R100

C115
DIGITAL TRANSMISSION RANGE (DTR) SENSOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	199 (LB/YE)	TR3A Signal to PCM
4	1144 (WH/YE)	TR1 Signal to PCM
5	1145 (DB/WH)	TR2 Signal to PCM
6	1143 (DG/YE)	TR4 Signal to PCM
7	–	NOT USED
8	–	NOT USED
9	296 (WH/VT)	Fused Power Feed (Hot in Run)
10	32 (RD/LB)	Starter Relay Enable
11	140 (BK/PK)	Reversing Lamp Output (Hot in Reverse)
12	1093 (TN/RD)	Start Signal from Steering Column/ Ignition/Lighting Control Module



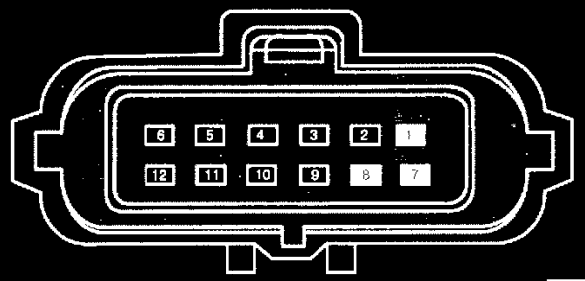
C109
OUTPUT SHAFT SPEED (OSS) SENSOR

PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
1 2	359 (GY/RD) 970 (BK/WH)	Signal Return From Powertrain Control Module (PCM)



C1021
TURBINE SHAFT SPEED (TSS) SENSOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1 2	359 (GY/RD) 970 (DG/WH)	Sensor Signal Return Turbine Shaft Speed (TSS) Sensor to Powertrain Control Module (PCM)

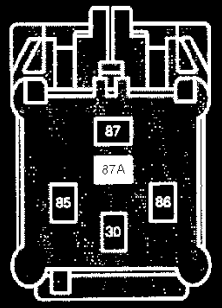


4R100

C115

DIGITAL TRANSMISSION RANGE (DTR) SENSOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	199 (LB/YE)	TR3A Signal to PCM
4	1144 (WH/YE)	TR1 Signal to PCM
5	1145 (DB/WH)	TR2 Signal to PCM
6	1143 (DG/YE)	TR4 Signal to PCM
7	–	NOT USED
8	–	NOT USED
9	296 (WH/VT)	Fused Power Feed (Hot in Run)
10	32 (RD/LB)	Starter Relay Enable
11	140 (BK/PK)	Reversing Lamp Output (Hot in Reverse)
12	1093 (TN/RD)	Start Signal from Steering Column/ Ignition/Lighting Control Module



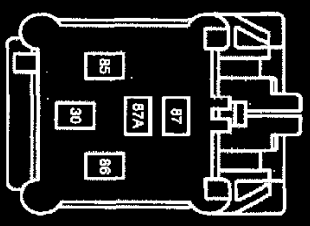
C403

AUXILIARY BLOWER MOTOR RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
30	884 (YE/BK)	Power 12V
85	753 (YE/RD)	Function Selector Switch Input
86	57 (BK)	Ground
87	371 (PK/WH)	Auxiliary Blower Motor Output
87a	–	NOT USED

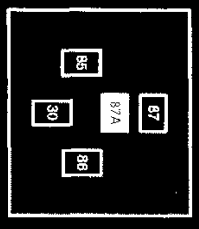
AUXILIARY BLOWER MOTOR RELAY

C404



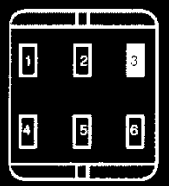
PIN	CIRCUIT	CIRCUIT FUNCTION
30	261 (OG/BK)	Auxiliary Blower Motor Input
85	753 (YE/RD)	Function Selector Switch Input
86	757 (RD/WH)	Auxiliary Heater Blower Switch Input
87	57 (BK)	Ground
87A	515 (OG/RD)	Auxiliary Blower Resistor Output

BLOWER MOTOR RELAY



PIN	CIRCUIT	CIRCUIT FUNCTION
30	37 (YE)	Battery + (Hot at All Times)
85	57 (BK)	Ground
86	753 (YE/RD)	Function Selector Switch Input
87	515 (OG/RD)	Output to Blower Motor
87A	–	NOT USED

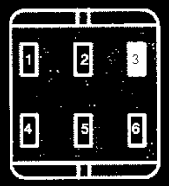
WITHOUT A/C



C230
AUXILIARY HEATER BLOWER SWITCH

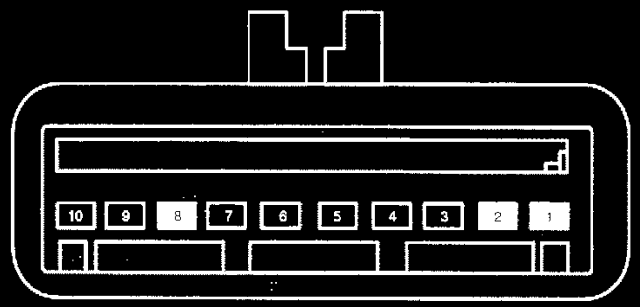
PIN	CIRCUIT	CIRCUIT FUNCTION
1	752 (YE/RD)	Auxiliary Blower Resistor Output
2	757 (RD/WH)	Auxiliary Blower Resistor Output
3	–	NOT USED
4	57 (BK)	Ground
5	751 (DB/WH)	Auxiliary Blower Resistor Output
6	754 (LG/WH)	Rear Auxiliary Blower Switch Output

WITH A/C



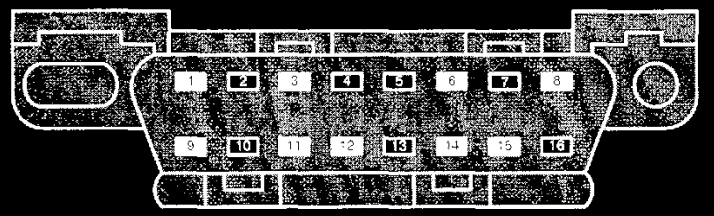
C230
AUXILIARY A/C-HEATER BLOWER SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	752 (YE/RD)	Auxiliary Blower Resistor Output
2	757 (RD/WH)	Auxiliary Blower Resistor Output
3	–	NOT USED
4	57 (BK)	Ground
5	751 (DB/WH)	Auxiliary Blower Resistor Output
6	754 (LG/WH)	Rear Auxiliary Blower Switch Output



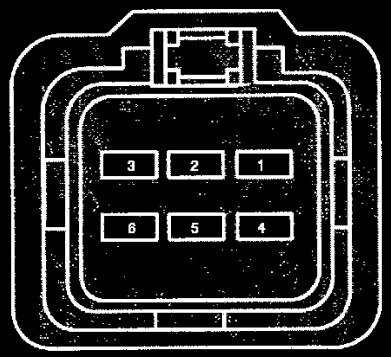
C146
SPEED CONTROL SERVO

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	–	NOT USED
3	679 (GY/BK)	Vehicle Speed Input
4	511 (LG)	Brake Input
5	151 (LB/BK)	Common Signal
6	848 (DG/OG)	Common Return
7	298 (VT/OG)	Vehicle Power
8	–	NOT USED
9	810 (RD/LG)	Brake Pressure Input
10	676 (PK/OG)	Ground



C241
DATA LINK CONNECTOR (DLC)

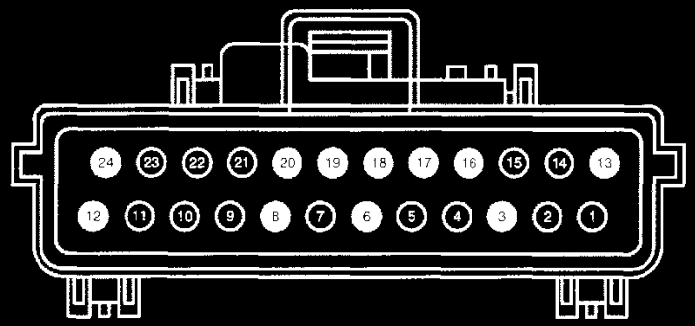
PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	914 (TN/OG)	Data Communications (+) (Data +)
3	–	NOT USED
4	875 (BK/LB)	Ground Circuit
5	570 (BK/WH)	PCM Ground
6	–	NOT USED
7	70 (LB/WH)	4WABS Module and Electronic Crash Sensor (ECS) Module
8	–	NOT USED
9	–	NOT USED
10	915 (PK/LB)	Data Communications (−) (Data −)
11	–	NOT USED
12	–	NOT USED
13	107 (VT)	PCM Module To Self Test Connector
14	–	NOT USED
15	–	NOT USED
16	1047 (LG/RD)	Power (Battery +)



C193

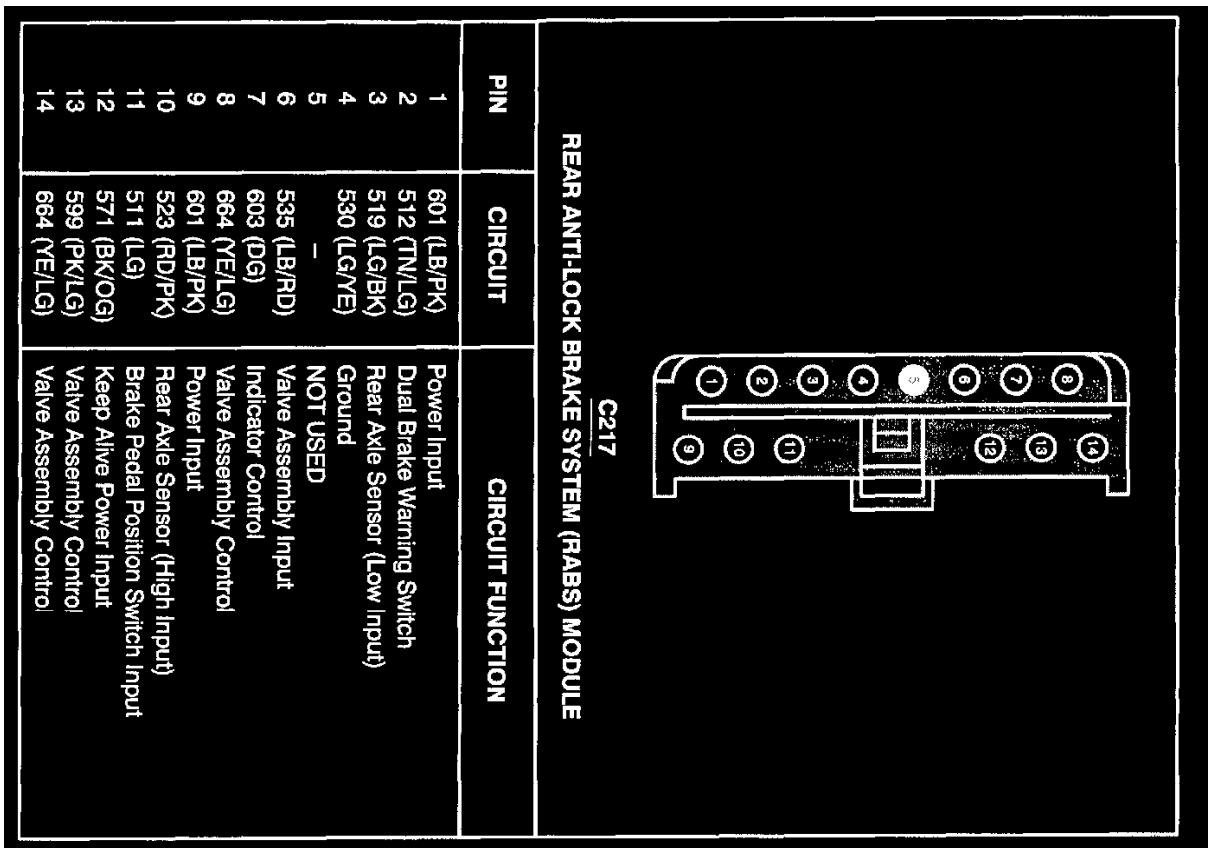
DAYTIME RUNNING LAMPS (DRL) MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	13 (RD/BK)	Pulse Voltage to Low
2	460 (YE/LB)	Power (Hot at All Times)
3	298 (VT/OG)	Power (Hot in Run)
4	875 (BK/LB)	Ground
5	12 (LG/LB)	High Beam Input
6	162 (LG/RD)	Parking Brake Input



C144
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	603 (DG)	ABS Indicator Control	13	–	NOT USED
2	599 (PK/LG)	Relay Control Output	14	601 (LB/PK)	Power (Hot in Run)
3	–	NOT USED	15	511 (LG)	Brake Pedal Position Switch Input
4	128 (VT/YE)	Brake Warning Lamp High	16	–	NOT USED
5	70 (LB/WH)	ISO Link (Diagnostic Data Link)	17	–	NOT USED
6	–	NOT USED	18	–	NOT USED
7	512 (TN/LG)	Brake Warning Lamp Low	19	–	NOT USED
8	–	NOT USED	20	–	NOT USED
9	523 (RD/PK)	Rear Sensor High	21	519 (LG/BK)	Rear Sensor Low
10	514 (YE/RD)	Right Front Sensor High	22	516 (YE/BK)	Right Front Sensor Low
11	521 (TN/OG)	Left Front Sensor High	23	522 (TN/BK)	Left Front Sensor Low
12	–	NOT USED	24	–	NOT USED

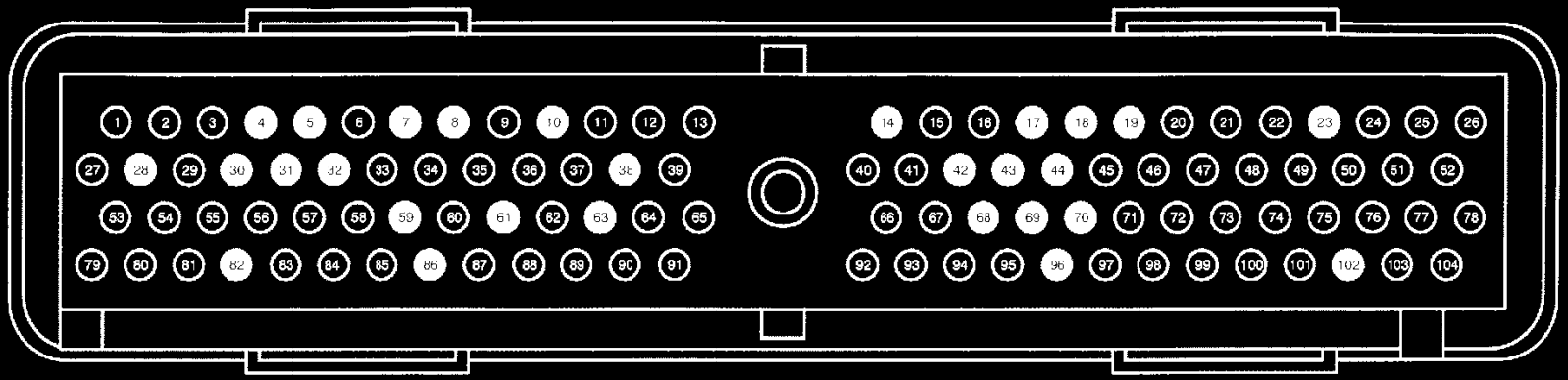


C217

REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	601 (LB/PK)	Power Input
2	512 (TN/LG)	Dual Brake Warning Switch
3	519 (LG/BK)	Rear Axle Sensor (Low Input)
4	530 (LG/YE)	Ground
5	–	NOT USED
6	535 (LB/RD)	Valve Assembly Input
7	603 (DG)	Indicator Control
8	664 (YE/LG)	Valve Assembly Control
9	601 (LB/PK)	Power Input
10	523 (RD/PK)	Rear Axle Sensor (High Input)
11	511 (LG)	Brake Pedal Position Switch Input
12	571 (BK/OG)	Keep Alive Power Input
13	599 (PK/LG)	Valve Assembly Control
14	664 (YE/LG)	Valve Assembly Control

Engine Control Module



C154
POWERTRAIN CONTROL MODULE (PCM)

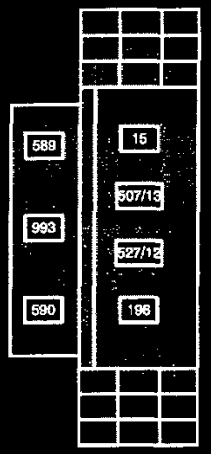
5.4L

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	1027 (PK/LB)	#6 Coil On Plug	17	–	NOT USED
2	658 (PK/LG)	MIL Lamp Control	18	–	NOT USED
3	570 (BK/WH)	Ground	19	–	NOT USED
4	–	NOT USED	20	924 (BN/OG)	Coast Clutch Solenoid
5	–	NOT USED	21	349 (DB)	Crankshaft Position Sensor (+)
6	237 (OG/YE)	Shift Solenoid #1	22	350 (GY)	Crankshaft Position Sensor (–)
7	–	NOT USED	23	–	NOT USED
8	–	NOT USED	24	570 (BK/WH)	Ground
9	29 (YE/WH)	Fuel Pump Sender	25	875 (BK/LB))	Ground
10	–	NOT USED	26	1022 (DB/YE)	#1 Coil On Plug
11	315 (VT/OG)	Shift Solenoid #2	27	1026 (PK/WH)	#5 Coil On Plug
12	911 (WH/LG)	Transmission Control Switch	28	–	NOT USED
13	107 (VT)	Generic Scan Tool Input	29	224 (TN/WH)	Transmission Control Switch
14	–	NOT USED	30	–	NOT USED
15	915 (PK/LB)	Bus –	31	–	NOT USED
16	914 (TN/OG)	Bus +	32	–	NOT USED

PIN	CIRCUIT	CIRCUIT FUNCTION
33	676 (PK/OG)	Vehicle Speed Sensor (VSS) Ground
34	1144 (YE/BK)	Digital Transmission Range (DTR) Sensor (TR1)
35	392 (RD/LG)	Heated Oxygen Sensor (HO2S) #12
36	968 (TN/LB)	Mass Air Flow (MAF) Sensor Return
37	923 (OG/BK)	Transmission Fluid Temperature Sensor
38	–	NOT USED
39	743 (GY)	Intake Air Temperature Input
40	238 (DG/YE)	Fuel Pump Monitor
41	347 (BK/YE)	A/C ON Input Signal
42	–	NOT USED
43	–	NOT USED
44	–	NOT USED
45	1105 (YE/LB)	Engine Coolant Temperature Sensor
46	367 (BN)	Inlet Air Control Sensor
47	360 (BN/PK)	Exhaust Gas Recirculation (EGR) Solenoid
48	648 (WH/PK)	NOT USED
49	1145 (LB/BK)	Digital Transmission Range (DTR) Sensor (TR2)
50	1146 (LG/RD)	Digital Transmission Range (DTR) Sensor (TR4)
51	570 (BK/WH)	Ground
52	1024 (LG/WH)	#3 Coil On Plug
53	1025 (OG/YE)	#4 Coil On Plug
54	480 (VT/YE)	Torque Converter Clutch (TCC) Solenoid
55	37 (YE)	Keep Alive Power Input
56	191 (LG/BK)	EVAP Canister Purge Valve
57	310 (YE/RD)	Knock Sensor (KS)
58	679 (GY/BK)	Vehicle Speed Sensor (VSS)
59	–	NOT USED
60	74 (GY/LB)	HEGO #11
61	–	NOT USED

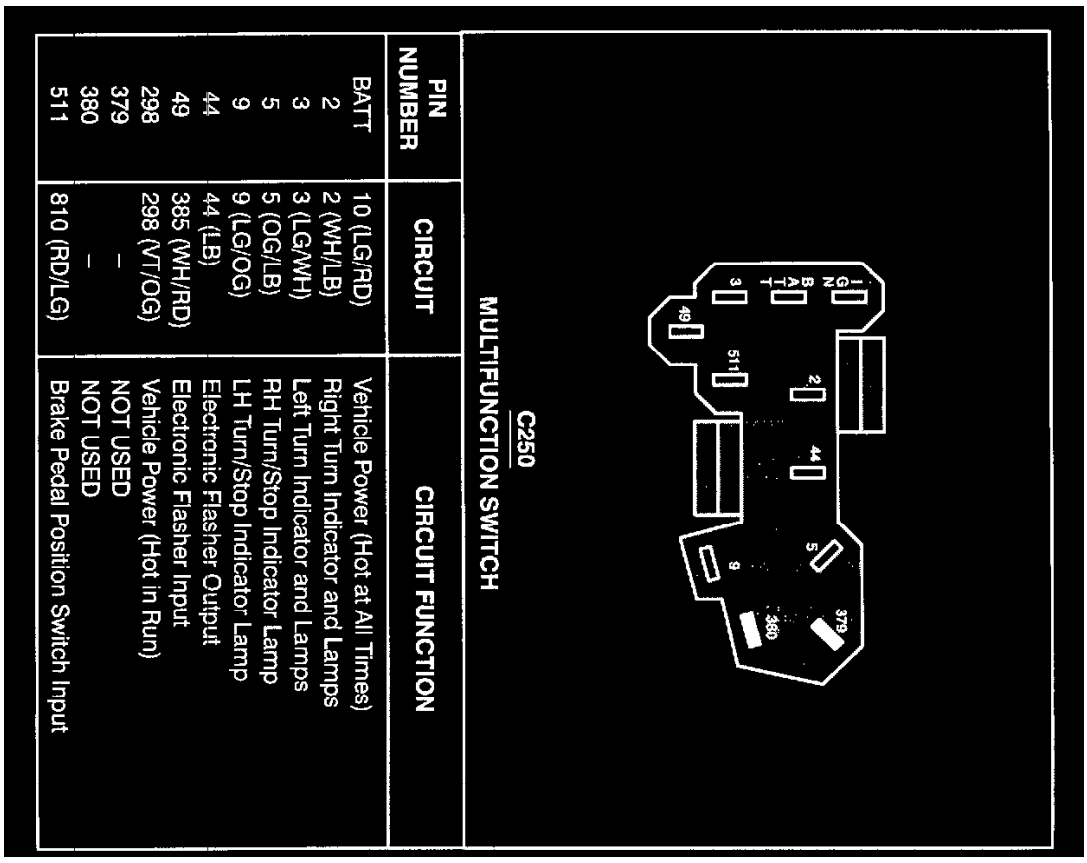
PIN	CIRCUIT	CIRCUIT FUNCTION
62	791 (RD/PK)	Fuel Tank Pressure Transducer
63	–	NOT USED
64	199 (LB/YE)	Digital Transmission Range (DTR) Sensor (TR3A)
65	352 (BN/LG)	Delta Pressure Feedback EGR (DPFE) Sensor
66	1102 (YE/LG)	Cylinder Head Temperature Sensor
67	91 (VT/WH)	Evaporative Emissions (EVAP) Canister Purge Valve
68	–	NOT USED
69	–	NOT USED
70	–	NOT USED
71	361 (RD)	Power Input
72	561 (TN/RD)	Fuel Injector #7
73	559 (TN/BK)	Fuel Injector #5
74	557 (BN/YE)	Fuel Injector #3
75	555 (TN)	Fuel Injector #1
76	570 (BK/WH)	Ground
77	570 (BK/WH)	Ground
78	1028 (WH/PK)	#7 Coil On Plug
79	1029 (WH/RD)	#8 Coil On Plug
80	926 (LB/OG)	Fuel Pump Relay Control
81	925 (WH/YE)	Electronic Pressure Control (EPC) Solenoid
82	–	NOT USED
83	264 (WH/LB)	Idle Air Control (IAC) Valve
84	136 (DB/YE)	Output Shaft Speed Sensor (OSS)
85	795 (DG)	Camshaft Position Sensor
86	–	NOT USED
87	94 (RD/BK)	HEGO #21
88	967 (LB/RD)	Mass Air Flow (MAF) Sensor
89	355 (GY/WH)	Throttle Position (TP) Sensor
90	351 (BN/WH)	Reference Output Voltage
91	359 (GY/RD)	Sensor Signal Return

PIN	CIRCUIT	CIRCUIT FUNCTION
92	511 (LG)	Brake Pedal Position Switch Input
93	387 (RD/WH)	HEGO #11 Voltage Monitor
94	388 (YE/LB)	HEGO #21 Voltage Monitor
95	389 (WH/BK)	HEGO #12 Voltage Monitor
96	–	NOT USED
97	361 (RD)	Power Input
98	562 (LB)	Fuel Injector #8
99	560 (LG/OG)	Fuel Injector #6
100	558 (BN/LG)	Fuel Injector #4
101	556 (WH)	Fuel Injector #2
102	–	NOT USED
103	570 (BK/WH)	Ground
104	1023 (DB/LB)	#2 Coil On Plug



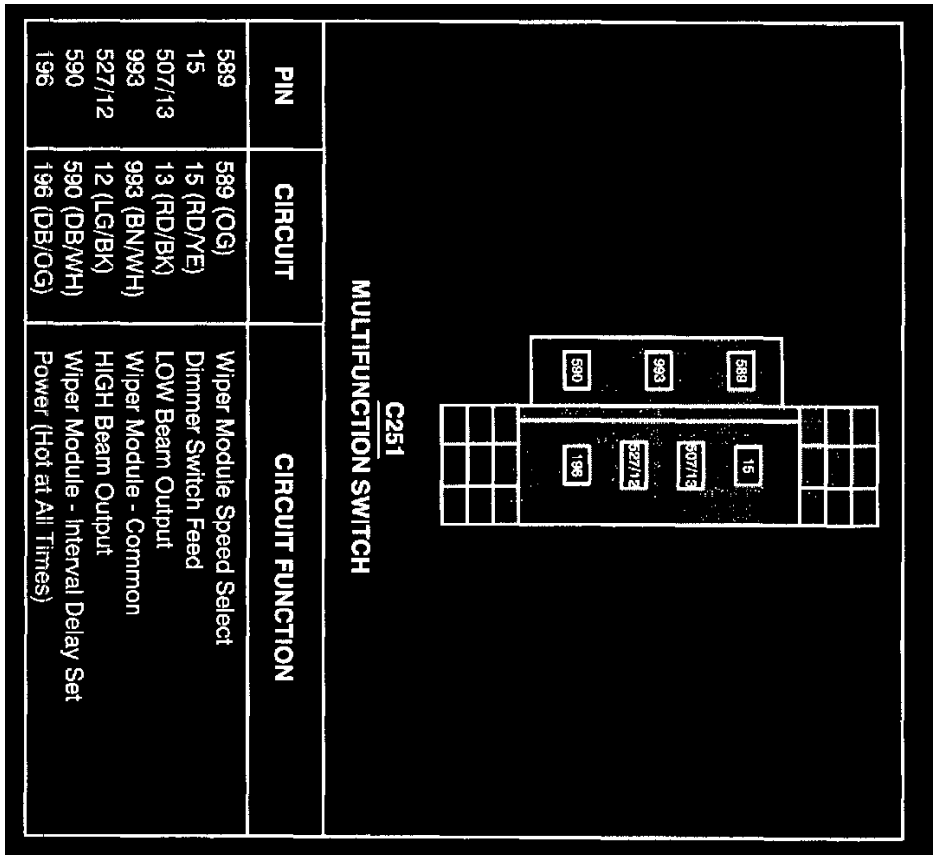
C251
MULTIFUNCTION SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
589	589 (OG)	Wiper Module Speed Select
15	15 (RD/YE)	Dimmer Switch Feed
507/13	13 (RD/BK)	LOW Beam Output
993	993 (BN/WH)	Wiper Module - Common
527/12	12 (LG/BK)	HIGH Beam Output
590	590 (DB/WH)	Wiper Module - Interval Delay Set
196	196 (DB/OG)	Power (Hot at All Times)

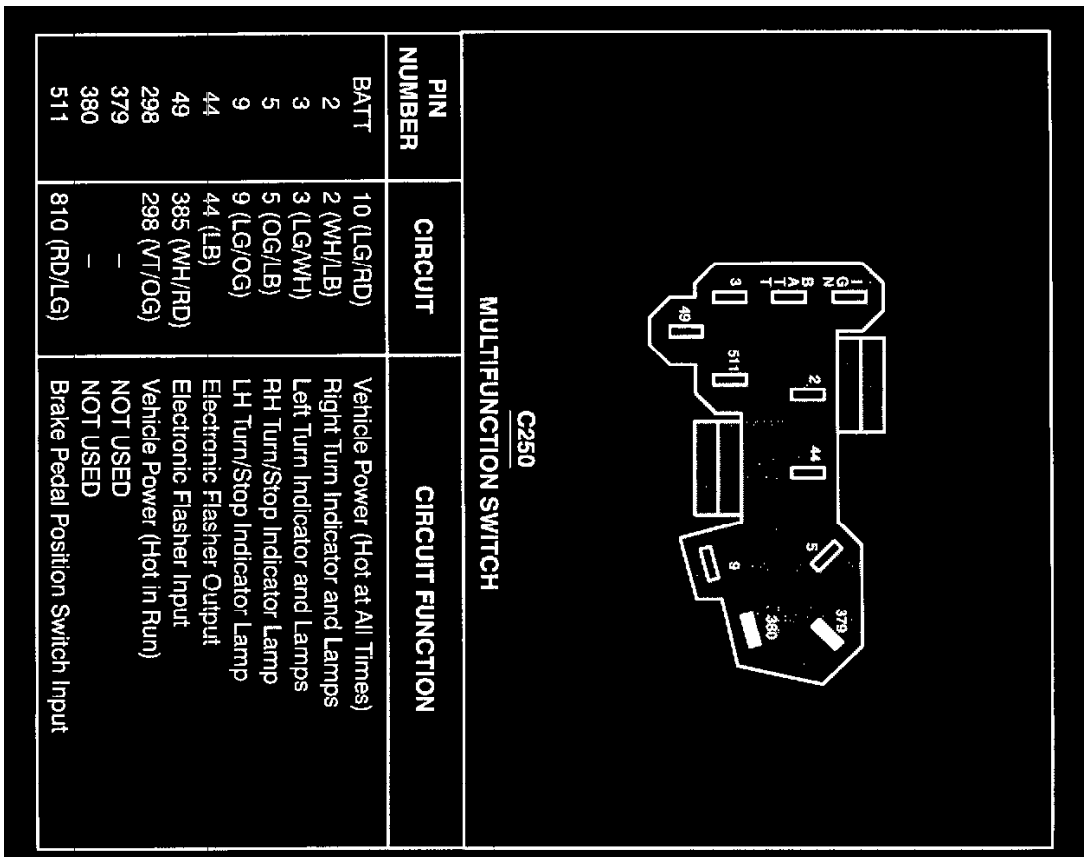


PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
BATT	10 (LG/RD)	Vehicle Power (Hot at All Times)
2	2 (WH/LB)	Right Turn Indicator and Lamps
3	3 (LG/WH)	Left Turn Indicator and Lamps
5	5 (OG/LB)	RH Turn/Stop Indicator Lamp
9	9 (LG/OG)	LH Turn/Stop Indicator Lamp
44	44 (LB)	Electronic Flasher Output
49	385 (WH/RD)	Electronic Flasher Input
298	298 (VT/OG)	Vehicle Power (Hot in Run)
379	—	NOT USED
380	—	NOT USED
511	810 (RD/LG)	Brake Pedal Position Switch Input

Diagram 90-4

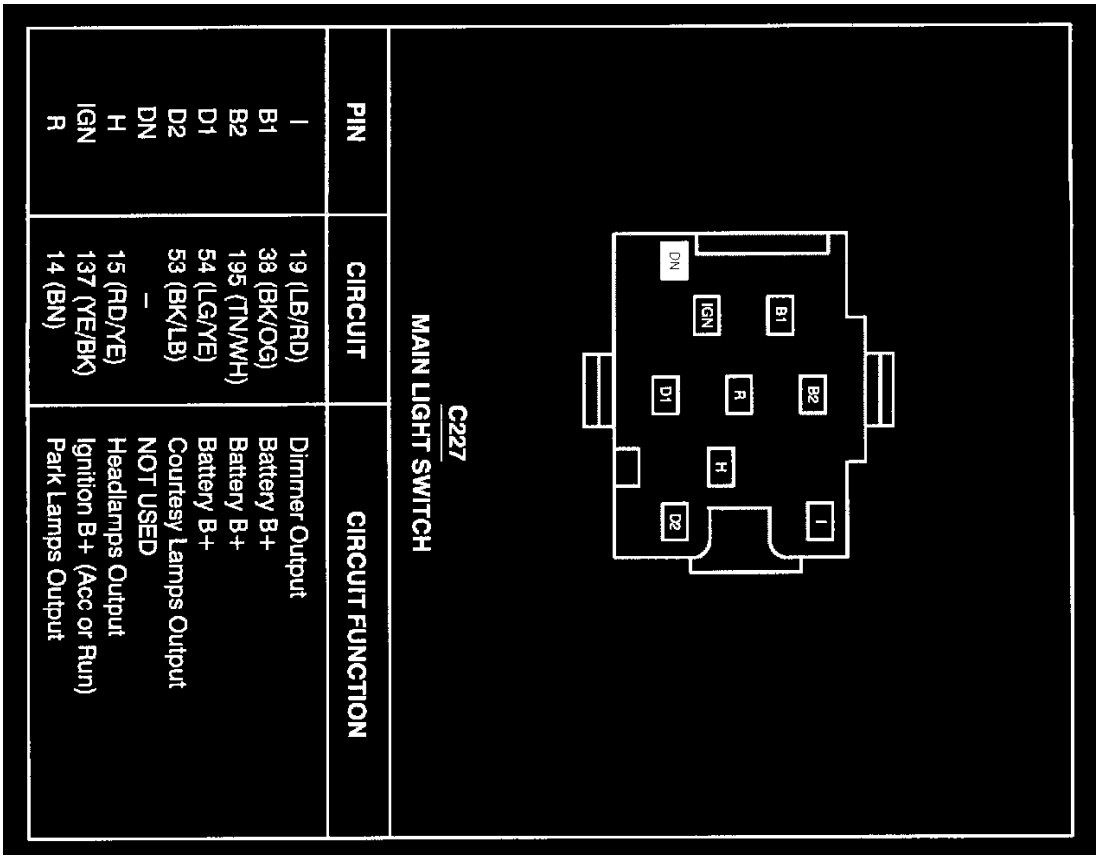


PIN	CIRCUIT	CIRCUIT FUNCTION
589	589 (OG)	Wiper Module Speed Select
15	15 (RD/YE)	Dimmer Switch Feed
507/13	13 (RD/BK)	LOW Beam Output
993	993 (BN/WH)	Wiper Module - Common
527/12	12 (LG/BK)	HIGH Beam Output
590	590 (DB/WH)	Wiper Module - Interval Delay Set
196	196 (DB/OG)	Power (Hot at All Times)

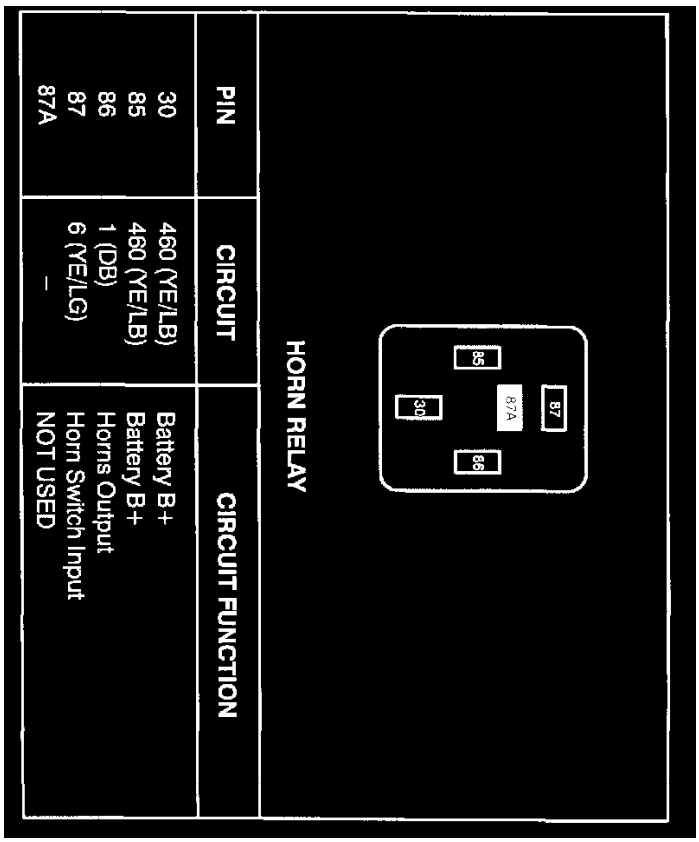


PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
BATT	10 (LG/RD)	Vehicle Power (Hot at All Times)
2	2 (WH/LB)	Right Turn Indicator and Lamps
3	3 (LG/WH)	Left Turn Indicator and Lamps
5	5 (OG/LB)	RH Turn/Stop Indicator Lamp
9	9 (LG/OG)	LH Turn/Stop Indicator Lamp
44	44 (LB)	Electronic Flasher Output
49	385 (WH/RD)	Electronic Flasher Input
298	298 (VT/OG)	Vehicle Power (Hot in Run)
379	—	NOT USED
380	—	NOT USED
511	810 (RD/LG)	Brake Pedal Position Switch Input

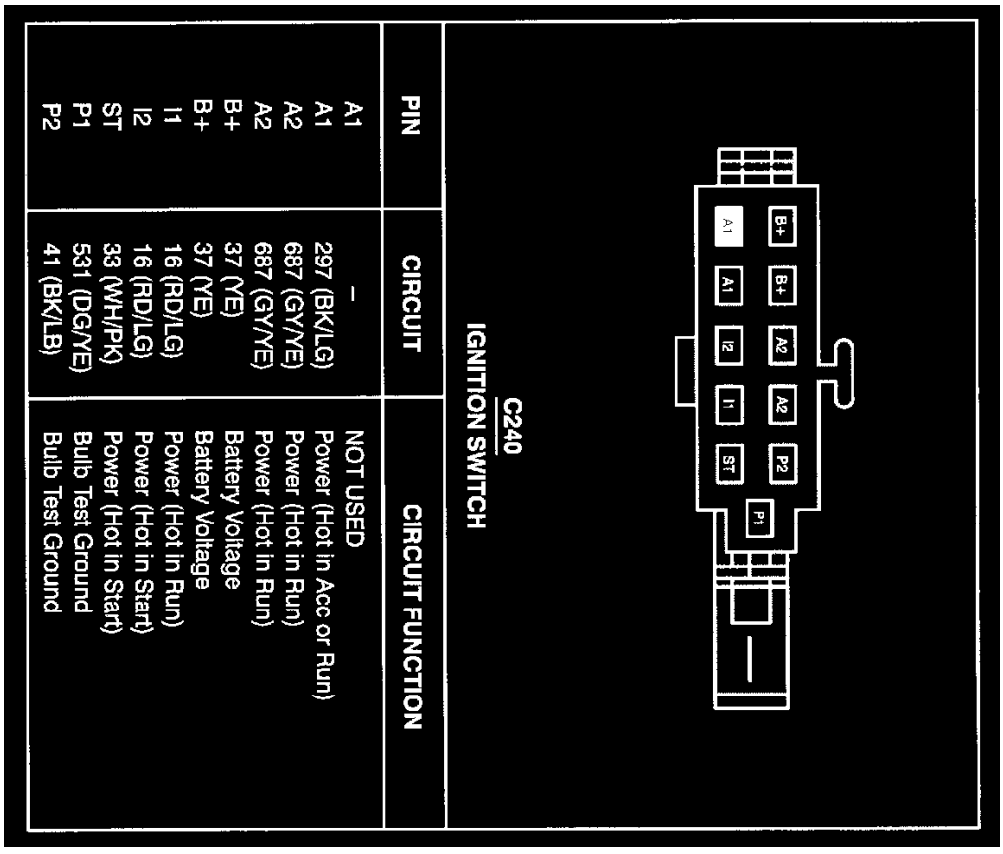
Diagram 90-4



PIN	CIRCUIT	CIRCUIT FUNCTION
I	19 (LB/RD)	Dimmer Output
B1	38 (BK/OG)	Battery B+
B2	195 (TN/WH)	Battery B+
D1	54 (LG/YE)	Battery B+
D2	53 (BK/LB)	Courtesy Lamps Output
DN	—	NOT USED
H	15 (RD/YE)	Headlamps Output
IGN	137 (YE/BK)	Ignition B+ (Acc or Run)
R	14 (BN)	Park Lamps Output

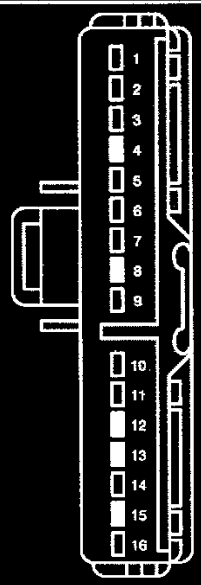


PIN	CIRCUIT	CIRCUIT FUNCTION
30	460 (YE/LB)	Battery B+
85	460 (YE/LB)	Battery B+
86	1 (DB)	Horns Output
87	6 (YE/LG)	Horn Switch Input
87A	–	NOT USED



PIN	CIRCUIT	CIRCUIT FUNCTION
A1	–	NOT USED
A1	297 (BK/LG)	Power (Hot in Acc or Run)
A2	687 (GY/YE)	Power (Hot in Run)
A2	687 (GY/YE)	Power (Hot in Run)
B+	37 (YE)	Battery Voltage
B+	37 (YE)	Battery Voltage
I1	16 (RD/LG)	Power (Hot in Run)
I2	16 (RD/LG)	Power (Hot in Start)
ST	33 (WH/PK)	Power (Hot in Start)
P1	531 (DG/YE)	Bulb Test Ground
P2	41 (BK/LB)	Bulb Test Ground

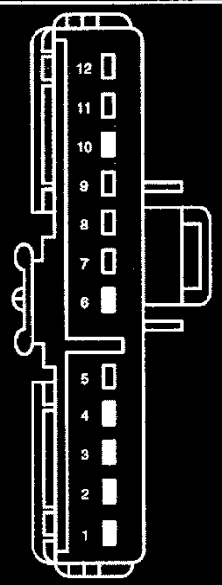
System Diagram



C224

INSTRUMENT CLUSTER

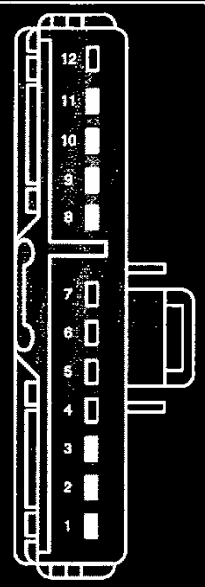
PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	19 (LB/RD)	Dimmer to Illumination Lamps (POS)
3	729 (RD/WH)	Voltmeter
4	–	NOT USED
5	570 (BK/WH)	Ground
6	31 (WH/RD)	Oil Pressure Signal
7	679 (GY/BK)	Vehicle Speed Signal
8	–	NOT USED
9	39 (RD/WH)	Temperature Signal
10	29 (YE/WH)	Fuel Level Signal
11	640 (RD/YE)	Ignition (Hot in Start or Run)
12	–	NOT USED
13	–	NOT USED
14	2 (WH/LB)	Turn Signal Switch (POS)
15	–	NOT USED
16	3 (LG/WH)	Turn Signal Switch (POS)



C225

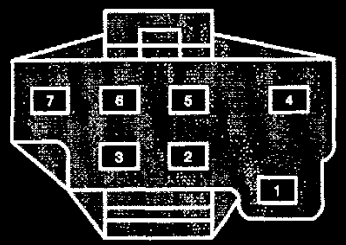
INSTRUMENT CLUSTER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	–	NOT USED
3	–	NOT USED
4	1031 (LG)	Fuel Filter Indicator Lamp (GRD)
5	658 (PK/LG)	Service Engine Soon Indicator Lamp (GRD)
6	–	NOT USED
7	450 (DG/LG)	Safety Belt Warning Lamp (POS)
8	603 (DG)	ABS Indicator Lamp (GRD)
9	12 (LG/BK)	High Beam Switch to Indicator Lamp (POS)
10	–	NOT USED
11	464 (BK/PK)	Wait to Start Indicator Lamp (GRD)
12	643 (RD)	Water in Fuel Signal (POS)



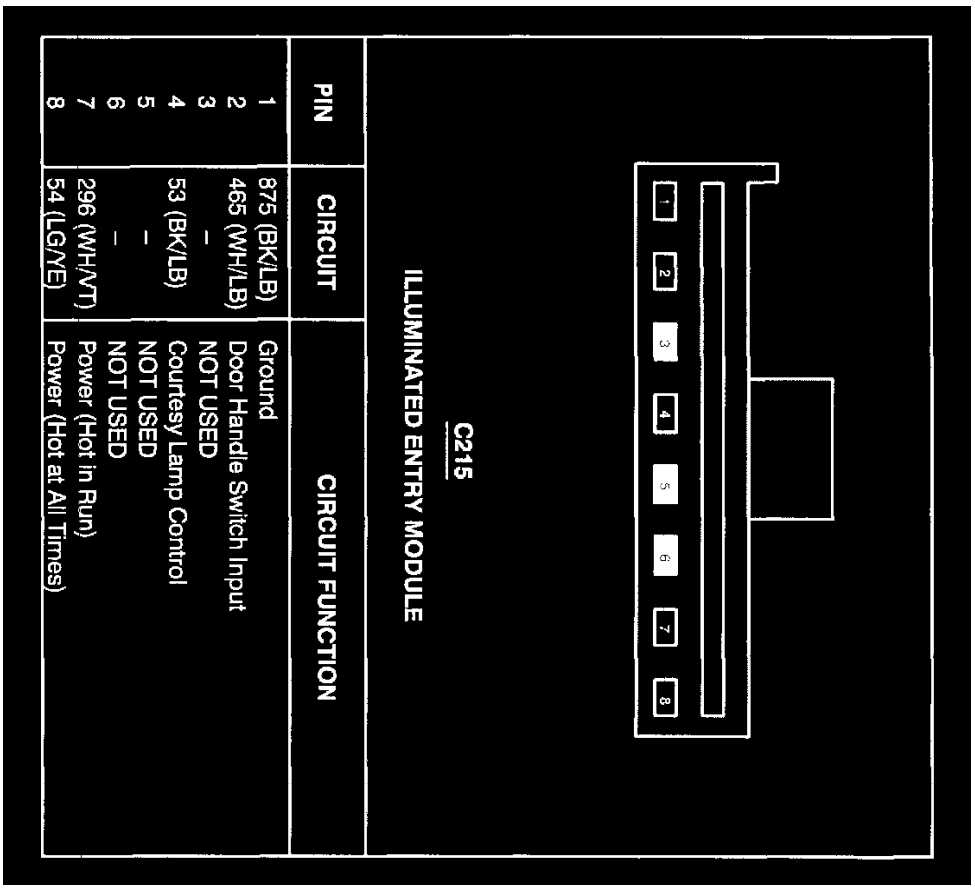
C226
INSTRUMENT CLUSTER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	–	NOT USED
3	–	NOT USED
4	977 (VT/WH)	Brake Warning Switch to Indicator Lamp
5	904 (LG/RD)	Generator Charge Signal (GRD)
6	608 (BK/YE)	Air Bag Sensor to Indicator Lamp (GRD)
7	1044 (WH/YE)	Generator Charge (Hot in Start or Run) (POS)
8	–	NOT USED
9	–	NOT USED
10	–	NOT USED
11	–	NOT USED
12	640 (RD/YE)	Ignition (Hot in Start and Run)



C214
WARNING BUZZER MODULE

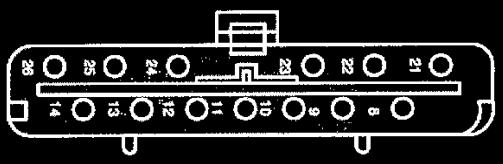
PIN	CIRCUIT	CIRCUIT FUNCTION
1	14 (BN)	Headlamps ON Input
2	159 (RD/BK)	Driver Door Open Input
3	85 (BN/LB)	Safety Belt Input
4	158 (BK/PK)	Key-In-Ignition Input
5	57 (BK)	Ground
6	450 (DG/LG)	Safety Belt Indicator Input
7	640 (RD/YE)	Ignition (Run or Start)



C215

ILLUMINATED ENTRY MODULE

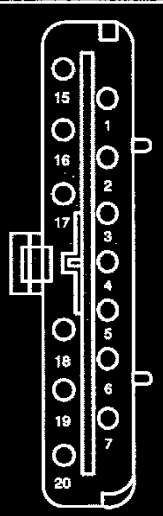
PIN	CIRCUIT	CIRCUIT FUNCTION
1	875 (BK/LB)	Ground
2	465 (WH/LB)	Door Handle Switch Input
3	–	NOT USED
4	53 (BK/LB)	Courtesy Lamp Control
5	–	NOT USED
6	–	NOT USED
7	296 (WH/VT)	Power (Hot in Run)
8	54 (LG/YE)	Power (Hot at All Times)



C335

REMOTE KEYLESS ENTRY MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
8	875 (BK/LB)	Ground
9	14 (BN)	Main Light Switch
10	808 (WH/YE)	RKE Data Link
11	–	NOT USED
12	296 (WH/VT)	Power (Hot in Acc or Run)
13	1 (DB)	Horn Relay Control
14	–	NOT USED
21	875 (BK/LB)	Ground
22	517 (BK/WH)	Power (Hot at All Times)
23	875 (BK/LB)	Ground
24	120 (PK/LG)	Unlock Input
25	119 (PK/YE)	Lock Input
26	628 (WH)	Side Door Courtesy Switch Input



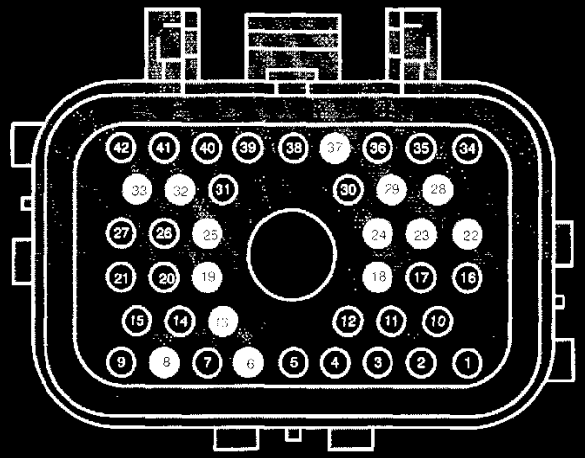
C336

REMOTE KEYLESS ENTRY MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	884 (YE/BK)	Power (Hot at All Times)
3	118 (PK/OG)	Right Front Door Lock
4	163 (RD/OG)	Left Front Door Lock Motor
5	117 (PK/BK)	Door Lock Control
6	121 (YE/BK)	Side Door Lock Control
7	53 (BK/LB)	Interior Lamps
15	–	NOT USED
16	884 (YE/BK)	Power (Hot at All Times)
17	118 (PK/OG)	Side/Rear Door Lock Return
18	117 (PK/BK)	Door Lock Control
19	121 (YE/BK)	Side Door Lock Control
20	53 (BK/LB)	Interior Lamps

12A581

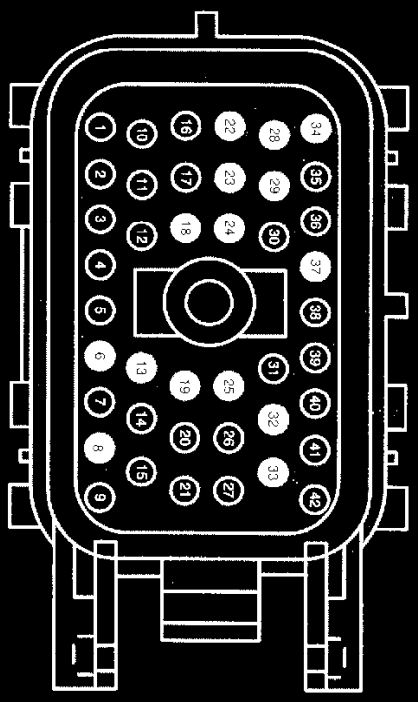
* 5.4L NGV
** 5.4L/6.8L



C100F

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	49 (OG)	15	91 (VT/WH)	29	–
2	787 (PK/BK)	16	514 (YE/RD)	30	651 (BK/YE)
3	29 (YE/WH)	17	516 (YE/BK)	31	64 (DG)
4	519 (LG/BK)	18	–	32	–
5	57 (BK)	19	–	33	–
6	–	20	*204 (OG/LG)	34	962 (BN/WH)
7	962 (BN/WH)	21	*141 (RD/BK)	35	351 (BN/WH)
8	–	22	–	36	52 (YE)
9	963 (BK/LG)	23	–	37	–
10	791 (RD/PK)	24	–	38	**359 (GY/RD)
11	359 (GY/RD)	25	–	39	**361 (RD)
12	523 (RD/VT)	26	521 (TN/OG)	40	**389 (WH/BK)
13	–	27	522 (TN/BK)	41	**392 (RD/LG)
14	361 (RD)	28	–	42	**43 (DB)

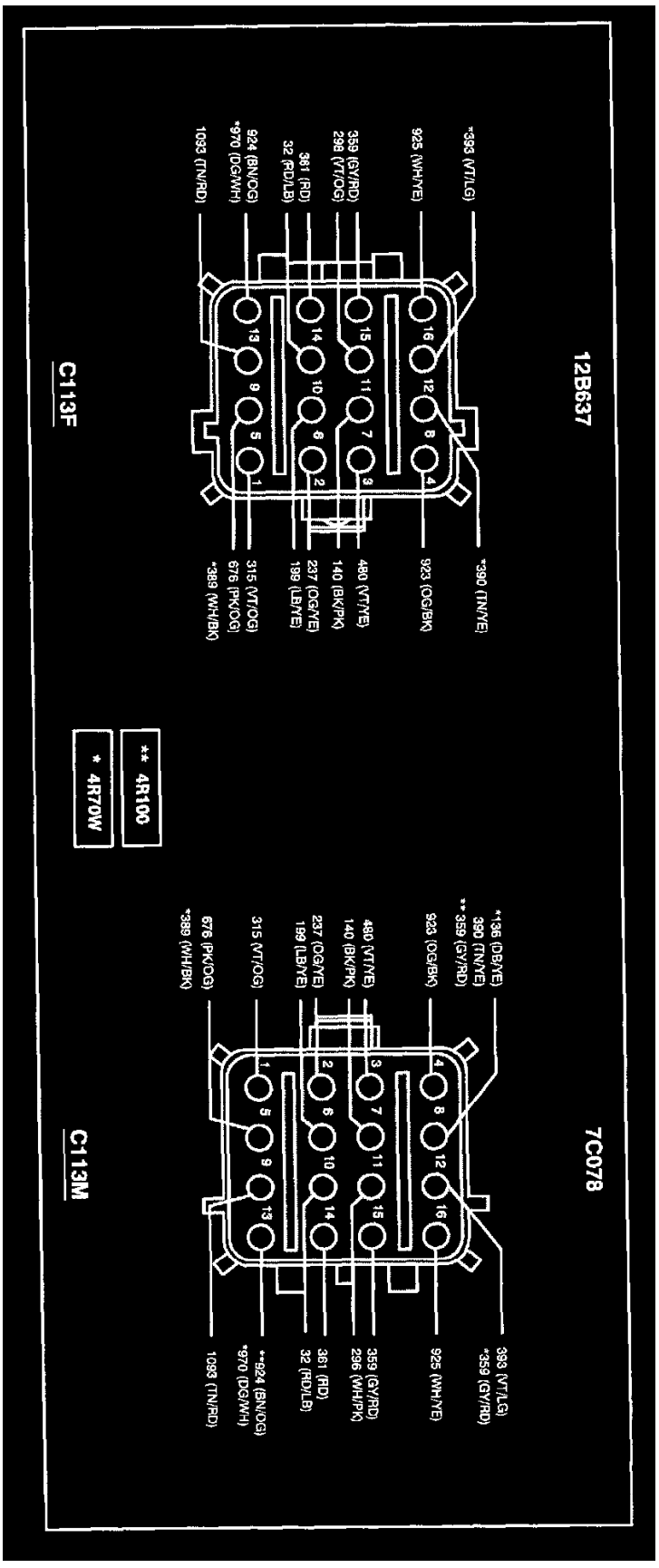
14406

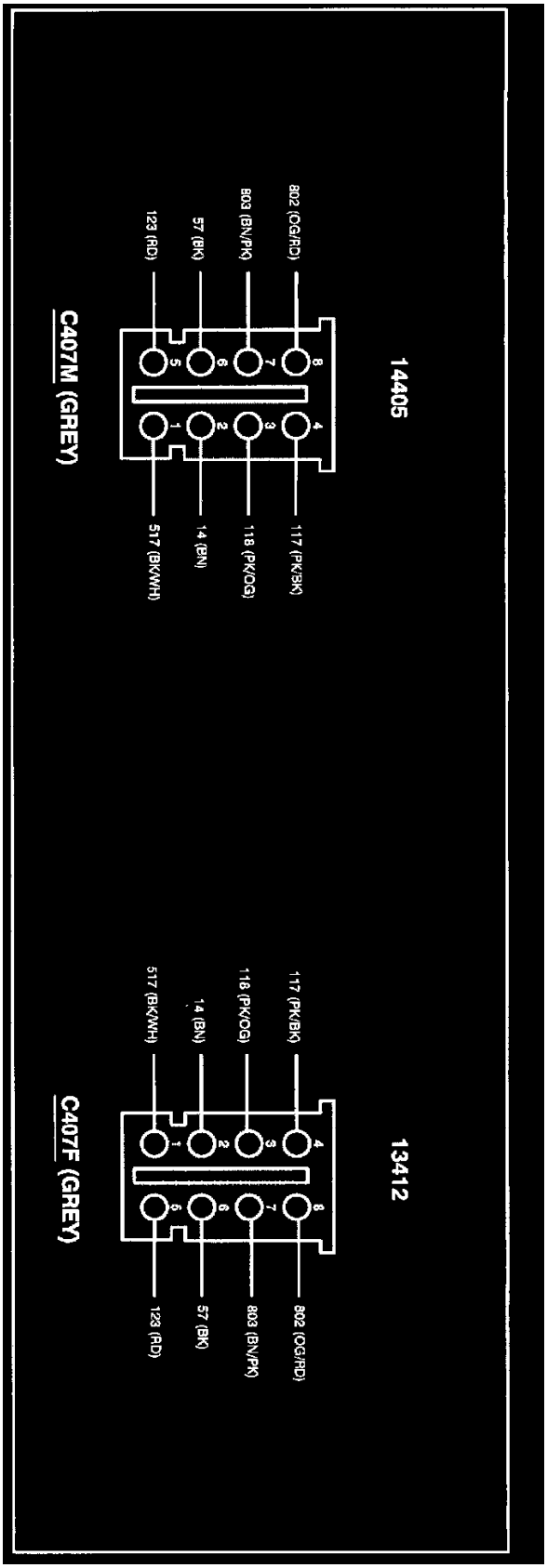


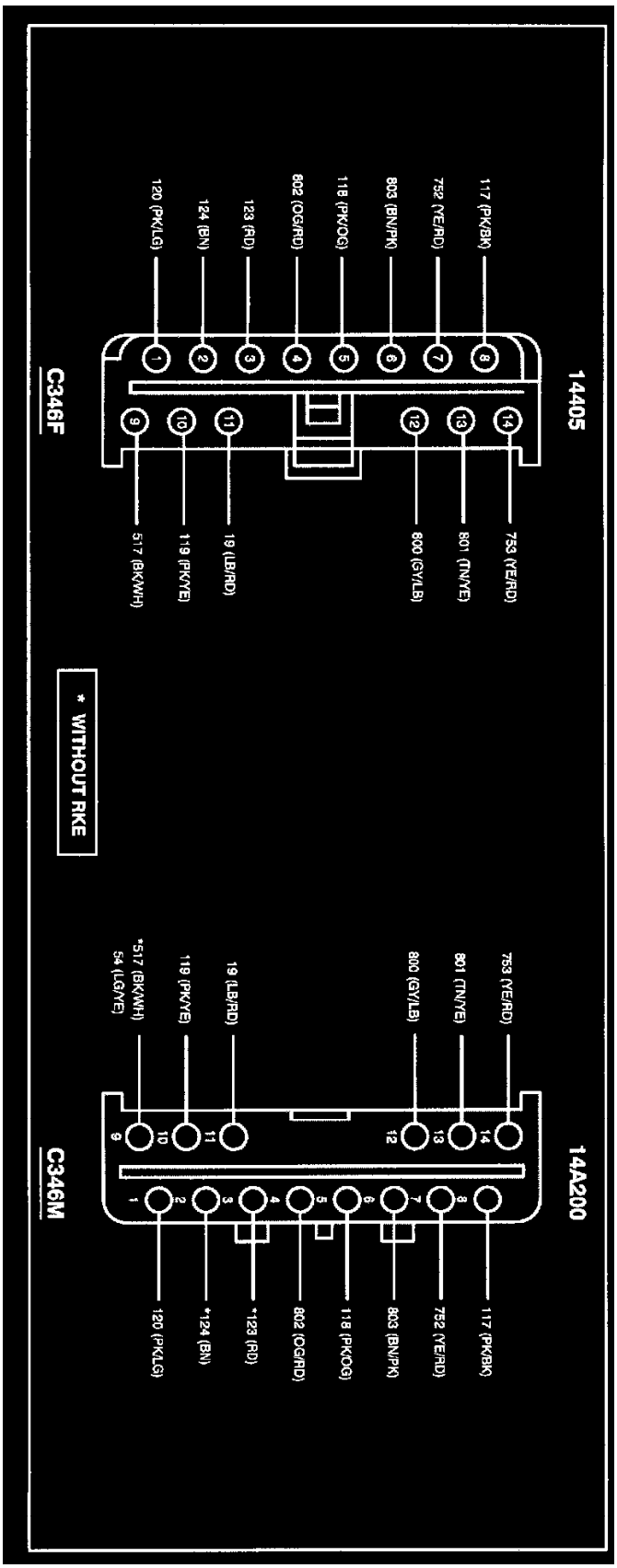
* 5.4L NGV

C100M

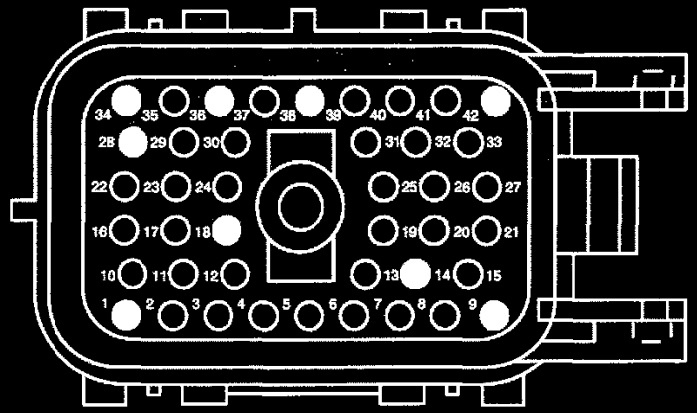
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	49 (OG)	15	91 (VT/WH)	29	–
2	787 (PK/BK)	16	514 (YE/RD)	30	651 (BK/YE)
3	29 (YE/WH)	17	516 (YE/BK)	31	64 (DG)
4	519 (LG/BK)	18	–	32	–
5	57 (BK)	19	–	33	–
6	–	20	*204 (OG/LG)	34	–
7	962 (BN/WH)	21	*141 (RD/PK)	35	351 (BN/WH)
8	–	22	–	36	52 (YE)
9	963 (BK/LG)	23	–	37	–
10	791 (RD/PK)	24	–	38	359 (GY/RD)
11	359 (GY/RD)	25	–	39	361 (RD)
12	523 (RD/VT)	26	521 (TN/OG)	40	389 (WH/BK)
13	–	27	522 (TN/BK)	41	392 (RD/LG)
14	361 (RD)	28	–	42	43 (DB)


12B637
C113F
*393 (VT/LG)
925 (WH/YE)
359 (GY/RD)
296 (VT/OG)
361 (RD)
32 (RD/LB)
924 (BN/OG)
*970 (DG/WH)
1093 (TN/RD)
*390 (TN/YE)
923 (OG/BK)
480 (VT/YE)
140 (BK/PK)
237 (OG/YE)
199 (LB/YE)
315 (VT/OG)
676 (PK/OG)
*389 (WH/BK)
** 4R100
* 4R70W
7C078
C113M
*136 (DB/YE)
390 (TN/YE)
** 359 (GY/RD)
923 (OG/BK)
480 (VT/YE)
140 (BK/PK)
237 (OG/YE)
199 (LB/YE)
315 (VT/OG)
676 (PK/OG)
*389 (WH/BK)
393 (VT/LG)
*359 (GY/RD)
925 (WH/YE)
359 (GY/RD)
296 (WH/PK)
361 (RD)
32 (RD/LB)
**924 (BN/OG)
*970 (DG/WH)
1093 (TN/RD)


14405
802 (OG/RD)
803 (BN/PK)
57 (BK)
123 (RD)
117 (PK/BK)
118 (PK/OG)
14 (BN)
517 (BK/WH)
C407M (GREY)
13412
117 (PK/BK)
118 (PK/OG)
14 (BN)
517 (BK/WH)
802 (OG/RD)
803 (BN/PK)
57 (BK)
123 (RD)
C407F (GREY)


14405
C346F
120 (PK/LG)
124 (BN)
123 (RD)
802 (OG/RD)
118 (PK/OG)
803 (BN/PK)
752 (YE/RD)
117 (PK/BK)
517 (BK/WH)
119 (PK/YE)
19 (LB/RD)
800 (GY/LB)
801 (TN/YE)
753 (YE/RD)
* WITHOUT RKE
14A200
C346M
*517 (BK/WH)
54 (LG/YE)
119 (PK/YE)
19 (LB/RD)
800 (GY/LB)
801 (TN/YE)
753 (YE/RD)
120 (PK/LG)
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*123 (RD)
802 (OG/RD)
118 (PK/OG)
803 (BN/PK)
752 (YE/RD)
117 (PK/BK)

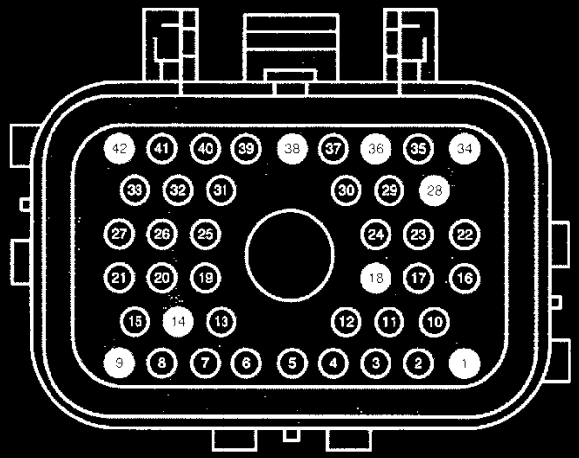
12A581



C166M

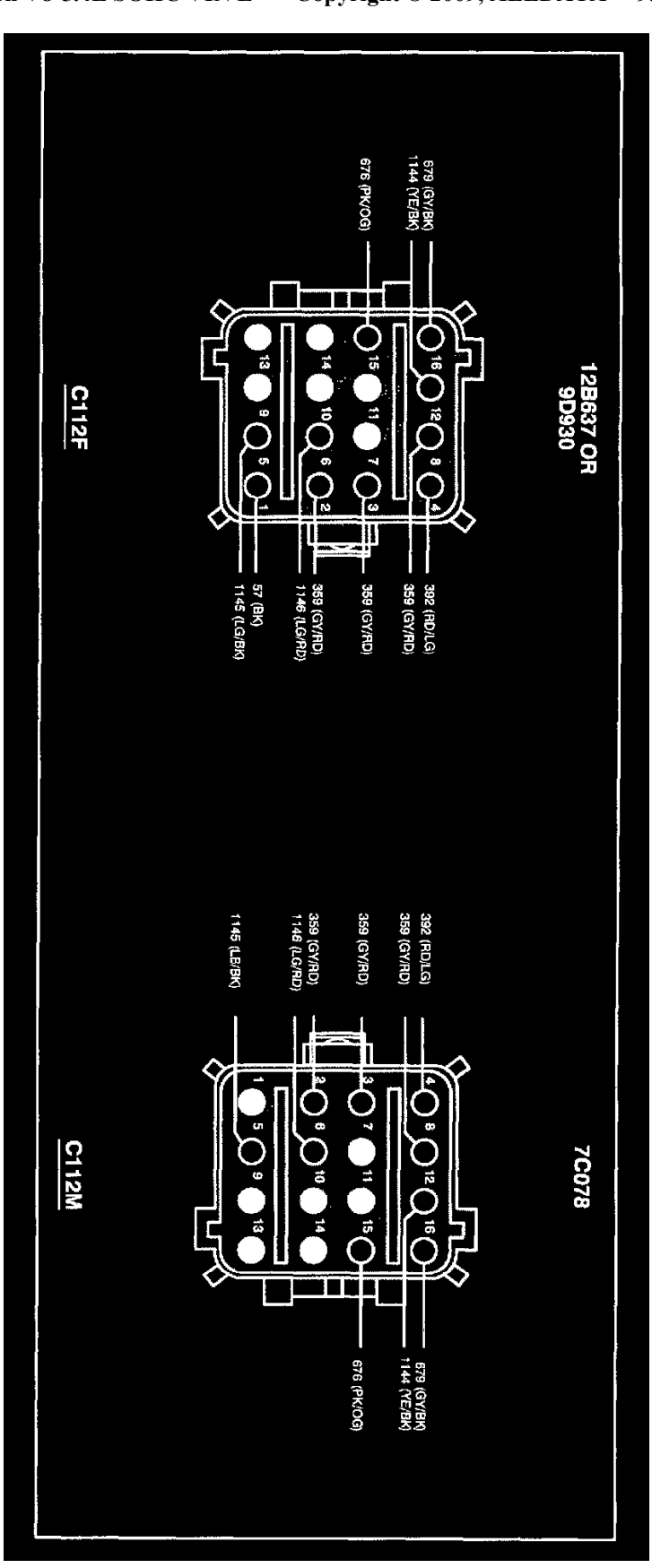
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	–	16	570 (BK/WH)	31	39 (RD/WH)
2	555 (TN)	17	354 (LG/RD)	32	3996 (RD/YE)
3	556 (WH)	18	–	33	796 (LB)
4	561 (TN/RD)	19	359 (GY/RD)	34	–
5	557 (BN/YE)	20	553 (VT/LB)	35	16 (RD/LG)
6	558 (BN/LB)	21	351 (BN/WH)	36	–
7	559 (TN/BK)	22	812 (DB/LG)	37	1280 (GY/RD)
8	560 (LG/OG)	23	318 (GY/RD)	38	–
9	–	24	361 (RD)	39	795 (DG)
10	562 (LB)	25	552 (YE/RD)	40	1279 (WH)
11	878 (PK/YE)	26	462 (PK)	41	1278 (WH/VT)
12	1087 (OG)	27	1277 (WH/LG)	42	–
13	1086 (PK/OG)	28	–		
14	–	29	45 (YE/RD)		
15	875 (BK/LB)	30	31 (WH/RD)		

9D930



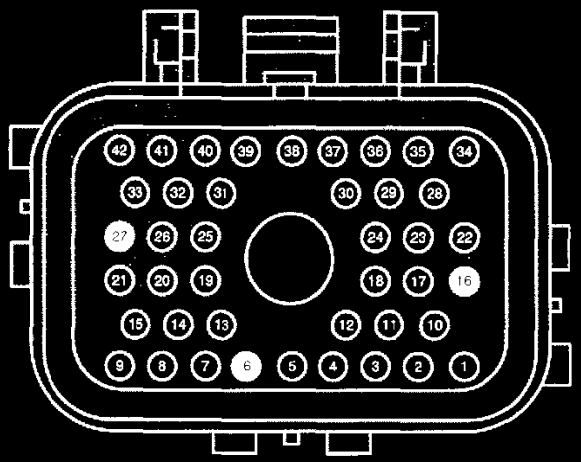
C166F

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	–	16	570 (BK/WH)	31	39 (RD/WH)
2	555 (TN)	17	354 (LG/RD)	32	3996 (RD/YE)
3	556 (WH)	18	–	33	796 (LB)
4	561 (TN/RD)	19	359 (GY/RD)	34	–
5	557 (BN/YE)	20	553 (VT/LB)	35	16 (RD/LG)
6	558 (BN/LB)	21	351 (BN/WH)	36	–
7	559 (TN/BK)	22	812 (DB/LG)	37	1280 (GY/RD)
8	560 (LG/OG)	23	318 (GY/RD)	38	–
9	–	24	361 (RD)	39	795 (DG)
10	562 (LB)	25	552 (YE/RD)	40	1279 (WH)
11	878 (PK/YE)	26	462 (PK)	41	1278 (WH/VT)
12	1087 (OG)	27	1277 (WH/LG)	42	–
13	1086 (PK/OG)	28	–		
14	–	29	45 (YE/RD)		
15	875 (BK/LB)	30	31 (WH/RD)		


12B637 OR
9D930
C112F
679 (GY/BK)
1144 (YE/BK)
676 (PK/OG)
392 (RD/LG)
359 (GY/RD)
359 (GY/RD)
359 (GY/RD)
1146 (LG/RD)
57 (BK)
1145 (LG/BK)
7C078
C112M
392 (RD/LG)
359 (GY/RD)
359 (GY/RD)
359 (GY/RD)
1146 (LG/RD)
1145 (LB/BK)
679 (GY/BK)
1144 (YE/BK)
676 (PK/OG)

12B637

* 5.4L NGV
** 4.6L/4.2L
*** 6.8L

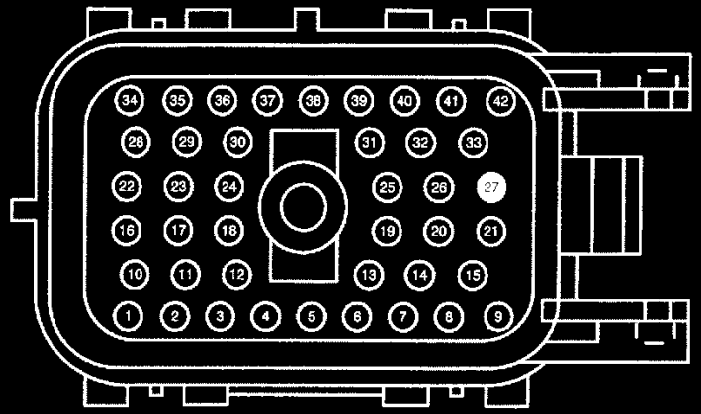


C116F

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	57 (BK)	17	**1023 (DB/LG)	32	*1028 (WH/PK), **527 (RD/LB),
2	39 (RD/WH), *787 (PK/BK)	18	359 (GY/RD)		***1026 (PK/WH)
3	***1100 (GY/BK)	19	560 (LG/OG)	33	*1027 (PK/LB), **528 (PK/WH),
4	***1101 (GY/RD)	20	561 (TN/RD)		***1023 (DB/LG)
5	1102 (YE/LG)	21	562 (LB)	34	16 (RD/LG)
6	–	22	350 (GY)	35	875 (BK/LB)
7	555 (TN)	23	795 (DG)	36	310 (YE/RD)
8	556 (WH)	24	***1146 (LG/RD), **570 (BK/LH)	37	**311 (DG/VT)
9	361 (RD)	25	31 (WH/RD)	38	360 (BN/PK)
10	**1022 (DB/YE)	26	*1024(LG/WH), **526 (DB/LG)	39	264 (WH/LB)
11	355 (GY/WH)	27	–	40	***1145 (LB/BK), *1164 (LB)
12	351 (BN/WH)	28	349 (DB)	41	*1026 (PK/WH), **529(RD/YE),
13	557 (BN/YE)	29	796 (LB)		***1024 (LG/WH)
14	558 (BN/LB)	30	352 (BN/LG)	42	296 (WH/PK)
15	559 (TN/BK)	31	45 (YE/RD), *141 (RD/PK)		
16	–				

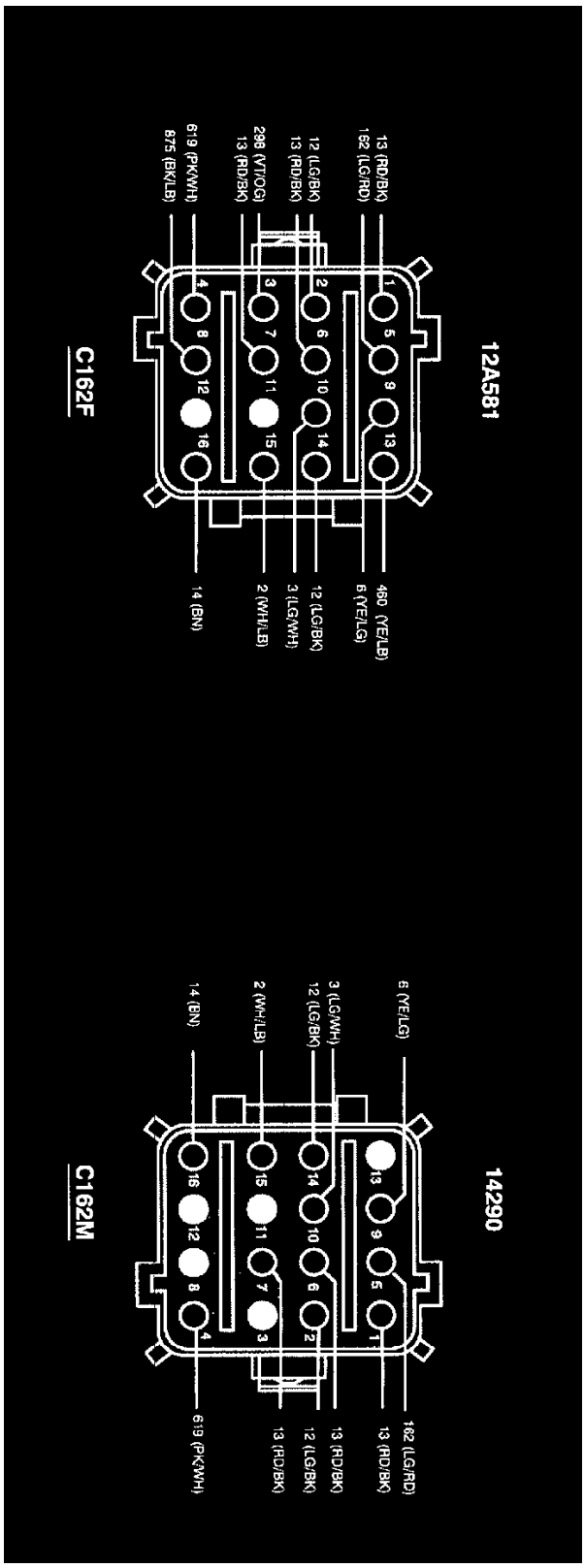
12A581

* 5.4L NGV
** 4.2L/4.6L
*** 6.8L



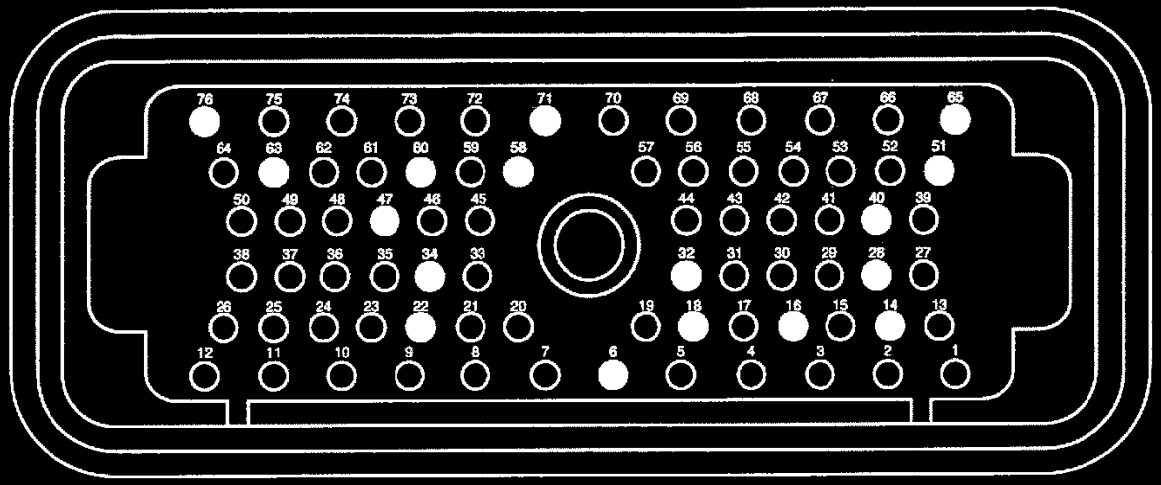
C116M

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	57 (BK)	16	354 (LG/RD)	31	45 (YE/RD), *141 (RD/PK)
2	39 (RD/WH), *787 (PK/BK)	17	367 (BN), **1023 (DB/LG)	32	1026 (PK/WH), **527 (RD/LB),
3	***1100 (GY/BK)	18	359 (GY/RD)		**1024 (LG/WH), **1028 (WH/PK)
4	***1101 (GY/RD)	19	560 (LG/OG)	33	1027 (PK/LB), **528 (PK/WH),
5	1102 (YE/LG)	20	561 (TN/RD)		1028 (WH/PK)
6	*200 (BN)	21	562 (LB)	34	16 (RD/LG)
7	555 (TN)	22	350 (GY)	35	875 (BK/LB)
8	556 (WH)	23	795 (DG)	36	310 (YE/RD)
9	361 (RD)	24	1146 (LG/RD), **570 (BK/WH)	37	311 (DG/VT)
10	**1022 (DB/YE)	25	31 (WH/RD)	38	360 (BN/PK)
11	355 (GY/WH)	26	1024 (LG/WH) **526 (DB/LG)	39	264 (WH/LB)
12	351 (BN/WH)	27	–	40	***1145 (LB/BK), *1164 (LB)
13	557 (BN/YE)	28	349 (DB)	41	*1026 (PK/WH), **529 (RD/YE),
14	558 (BN/LB)	29	796 (LB)		***1024 (LG/WH)
15	559 (TN/BK)	30	352 (BN/LG)	42	296 (WH/PK)


12A581
C162F
13 (RD/BK)
162 (LG/RD)
12 (LG/BK)
13 (RD/BK)
298 (VT/OG)
13 (RD/BK)
619 (PK/WH)
875 (BK/LB)
460 (YE/LB)
6 (YE/LG)
12 (LG/BK)
3 (LG/WH)
2 (WH/LB)
14 (BN)
14290
C162M
6 (YE/LG)
3 (LG/WH)
12 (LG/BK)
2 (WH/LB)
14 (BN)
162 (LG/RD)
13 (RD/BK)
13 (RD/BK)
12 (LG/BK)
13 (RD/BK)
619 (PK/WH)

12A581

* 7.3L DIESEL

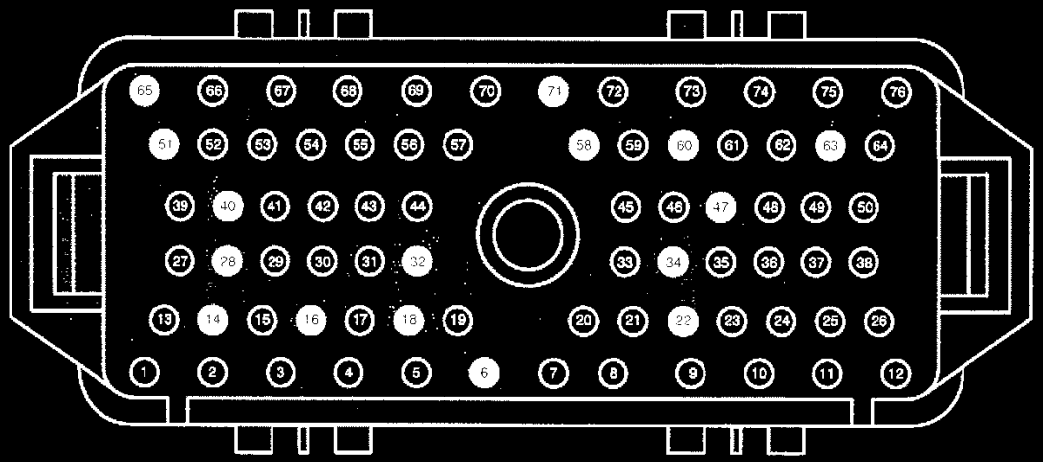


C234M (NATURAL)

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	21	753 (YE/RD)	40	–	58	–
2	752 (YE/RD)	22	–	41	1093 (TN/RD)	59	915 (PK/LB)
3	754 (LG/WH)	23	5 (OG/LB)		*33 (WH/PK)	60	–
4	43 (DB)	24	10 (LG/RD)	42	19 (LB/RD)	61	914 (TN/OG)
5	16 (RD/LG)	25	*284 (OG)	43	70 (LB/WH)	62	*356 (DB/LG)
6	–	26	37 (YE)	44	*355 (GY/WH)	63	–
7	22 (LB/BK)	27	9 (LG/OG)	45	601 (LB/PK)	64	65 (DG)
8	*359 (GY/RD)	28	–	46	296 (WH/VT)	65	–
9	*351 (BN/WH)	29	511 (LG)	47	–	66	49 (OG)
10	296 (WH/VT)	30	*308 (RD/OG)	48	14 (BN)	67	137 (YE/BK)
11	884 (YE/BK)	31	107 (VT)	49	570 (BK/WH)	68	40 (LB/WH)
12	38 (BK/OG)	32	–	50	53 (BK/LB)	69	37 (YE)
13	37 (YE)	33	489 (PK/BK)	51	–	70	85 (BN/LB)
14	–	34	–	52	54 (LG/YE)	71	–
15	*837 (YE/BK)	35	195 (TN/WH)	53	140 (BK/PK)	72	757 (RD/WH)
16	–	36	531 (DG/YE)	54	1 (DB)	73	*16 (RD/LG)
17	19 (LB/RD)	37	12 (LG/BK)	55	519 (LG/BK)	74	238 (DG/YE)
18	–	38	13 (RD/BK)	56	523 (RD/PK)	75	787 (PK/BK)
19	640 (RD/YE)	39	162 (LG/RD)	57	13 (RD/BK)	76	–
20	298 (VT/OG)						

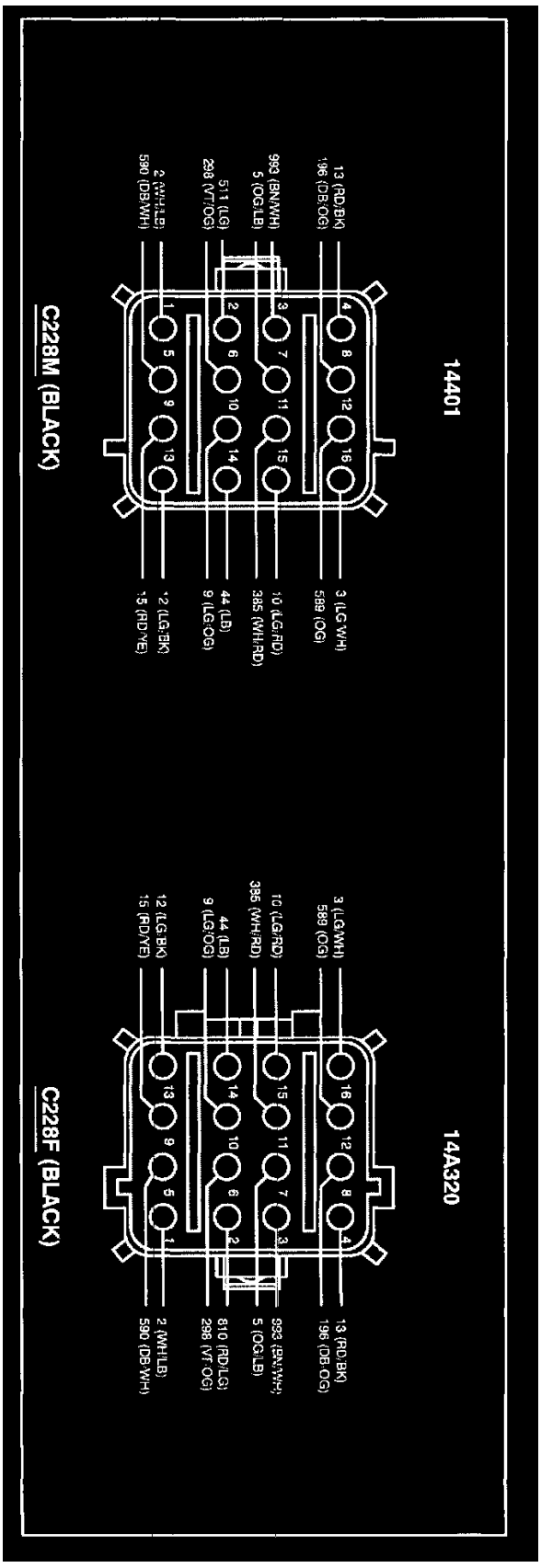
14A200

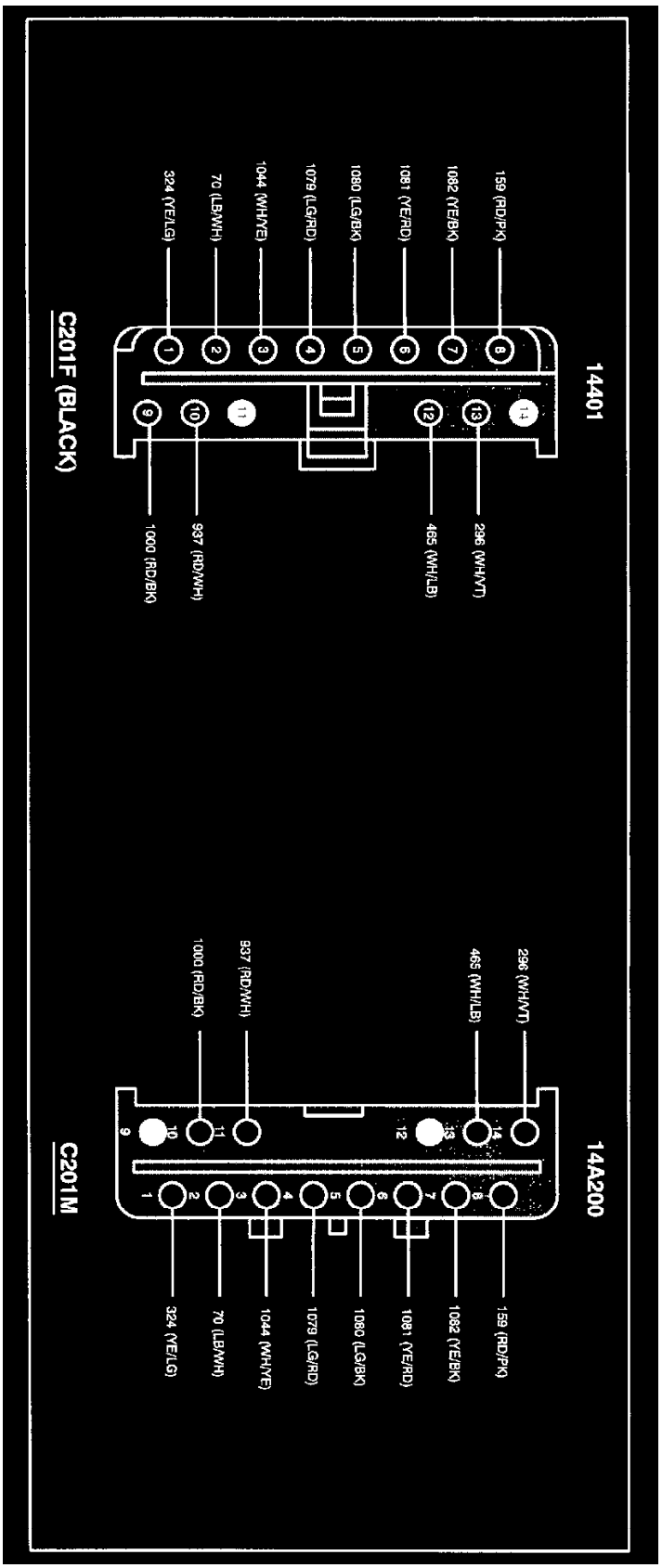
* 7.3L DIESEL

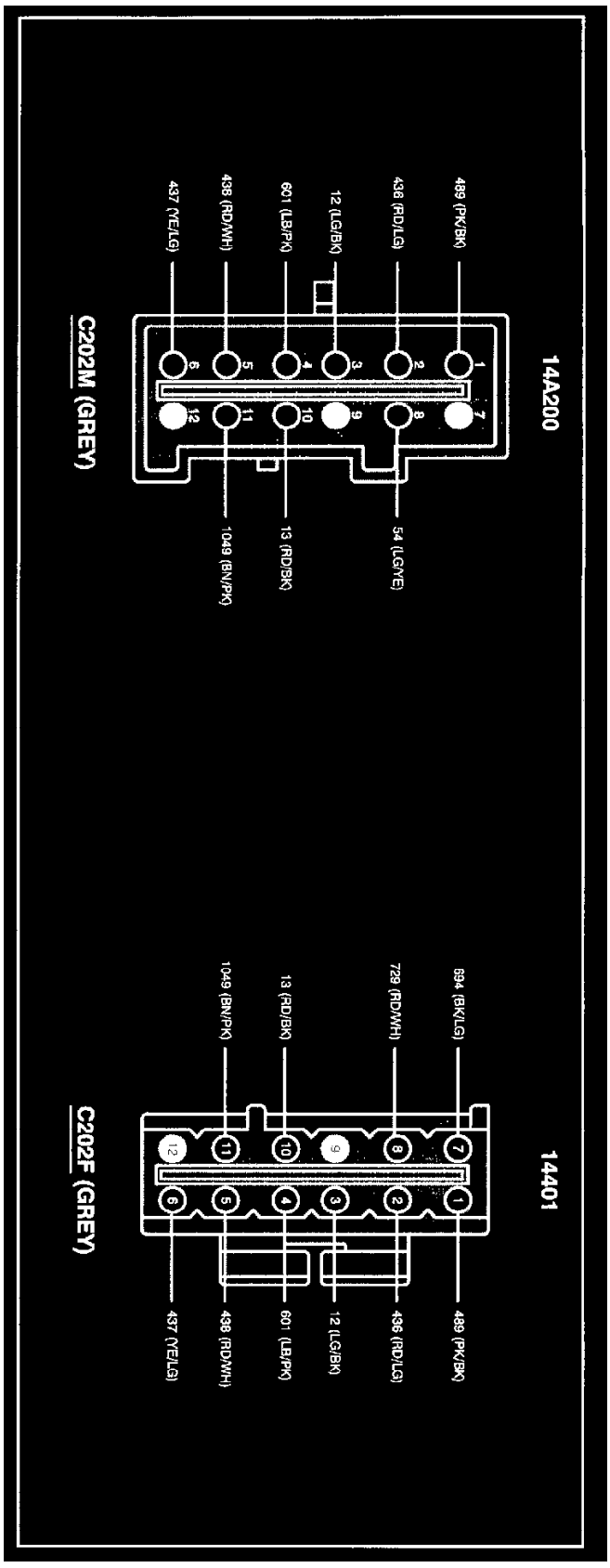


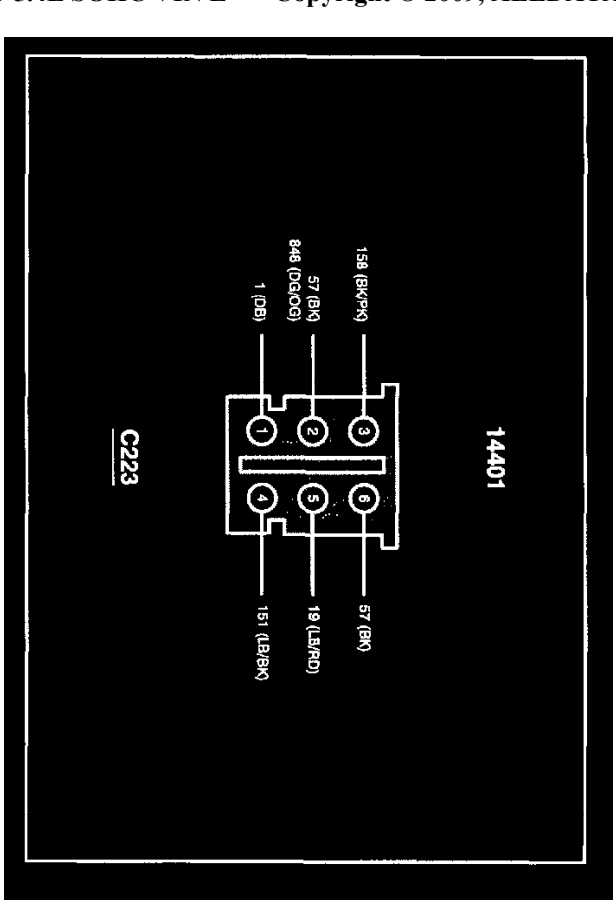
C234F (NATURAL)

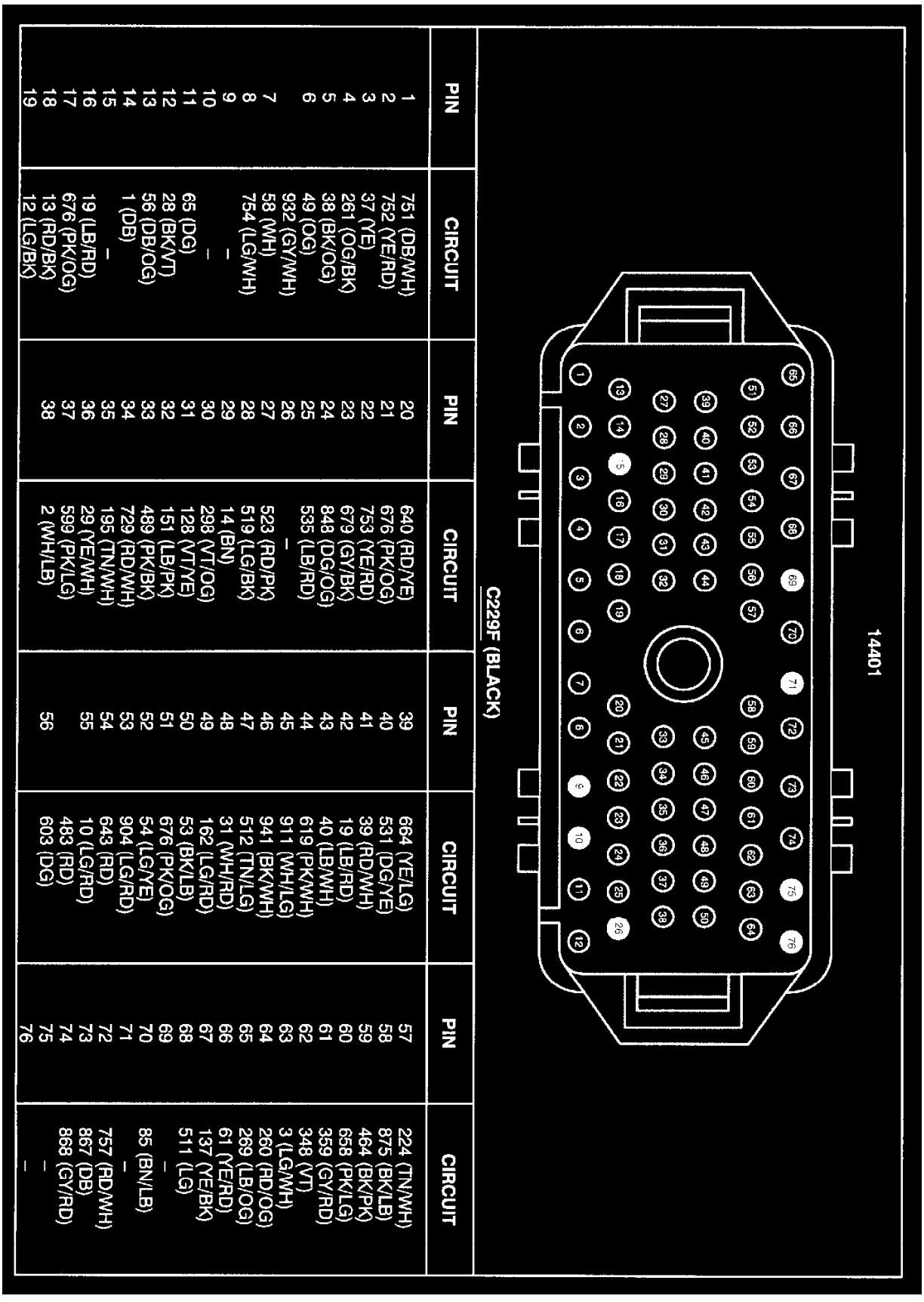
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	20	298 (VT/OG)	39	162 (LG/RD)	57	13 (RD/BK)
2	752 (YE/RD)	21	753 (YE/RD)	40	–	58	–
3	754 (LG/WH)	22	–	41	1093 (TN/RD)	59	915 (PK/LB)
4	43 (DB)	23	5 (OG/LB)		*33 (WH/PK)	60	–
5	16 (RD/LG)	24	10 (LG/RD)	42	19 (LB/RD)	61	914 (TN/OG)
6	–	25	284 (OG)	43	70 (LB/WH)	62	*356 (DB/LG)
7	22 (LB/BK)	26	37 (YE)	44	*355 (GY/WH)	63	–
8	*359 (GY/RD)	27	9 (LG/OG)	45	601 (LB/PK)	64	65 (DG)
9	*351 (BN/WH)	28	–	46	296 (WH/VT)	65	–
10	296 (WH/VT)	29	511 (LG)	47	–	66	49 (OG)
11	884 (YE/BK)	30	*308 (RD/OG)	48	14 (BN)	67	137 (YE/BK)
12	38 (BK/OG)	31	107 (VT)	49	570 (BK/WH)	68	40 (LB/WH)
13	37 (YE)	32	–	50	53 (BK/LB)	69	37 (YE)
14	–	33	489 (PK/BK)	51	–	70	85 (BN/LB)
15	*837 (YE/BK)	34	–	52	54 (LG/YE)	71	–
16	–	35	195 (TN/WH)	53	140 (BK/PK)	72	757 (RD/WH)
17	19 (LB/RD)	36	531 (DG/YE)	54	1 (DB)	73	*16 (RD/LG)
18	–	37	12 (LG/BK)	55	519 (LG/BK)	74	238 (DG/YE)
19	640 (RD/YE)	38	13 (RD/BK)	56	523 (RD/PK)	75	787 (PK/BK)
						76	41 (BK/LB)


14401
C228M (BLACK)
13 (RD/BK)
196 (DB/OG)
993 (BN/WH)
5 (OG/LB)
511 (LG)
298 (VT/OG)
2 (WH/LB)
590 (DB/WH)
3 (LG/WH)
589 (OG)
10 (LG/RD)
385 (WH/RD)
44 (LB)
9 (LG/OG)
12 (LG/BK)
15 (RD/YE)
14A320
C228F (BLACK)
3 (LG/WH)
589 (OG)
10 (LG/RD)
385 (WH/RD)
44 (LB)
9 (LG/OG)
12 (LG/BK)
15 (RD/YE)
13 (RD/BK)
196 (DB/OG)
993 (BN/WH)
5 (OG/LB)
810 (RD/LG)
298 (VT/OG)
2 (WH/LB)
590 (DB/WH)


14401
C201F (BLACK)
159 (RD/PK)
1082 (YE/BK)
1081 (YE/RD)
1080 (LG/BK)
1079 (LG/RD)
1044 (WH/YE)
70 (LB/WH)
324 (YE/LG)
296 (WH/VT)
465 (WH/LB)
937 (RD/WH)
1000 (RD/BK)
14A200
C201M
296 (WH/VT)
465 (WH/LB)
937 (RD/WH)
1000 (RD/BK)
159 (RD/PK)
1082 (YE/BK)
1081 (YE/RD)
1080 (LG/BK)
1079 (LG/RD)
1044 (WH/YE)
70 (LB/WH)
324 (YE/LG)


14A200
489 (PK/BK)
436 (RD/LG)
12 (LG/BK)
601 (LB/PK)
438 (RD/WH)
437 (YE/LG)
C202M (GREY)
54 (LG/YE)
13 (RD/BK)
1049 (BN/PK)
14401
694 (BK/LG)
729 (RD/WH)
13 (RD/BK)
1049 (BN/PK)
C202F (GREY)
489 (PK/BK)
436 (RD/LG)
12 (LG/BK)
601 (LB/PK)
438 (RD/WH)
437 (YE/LG)

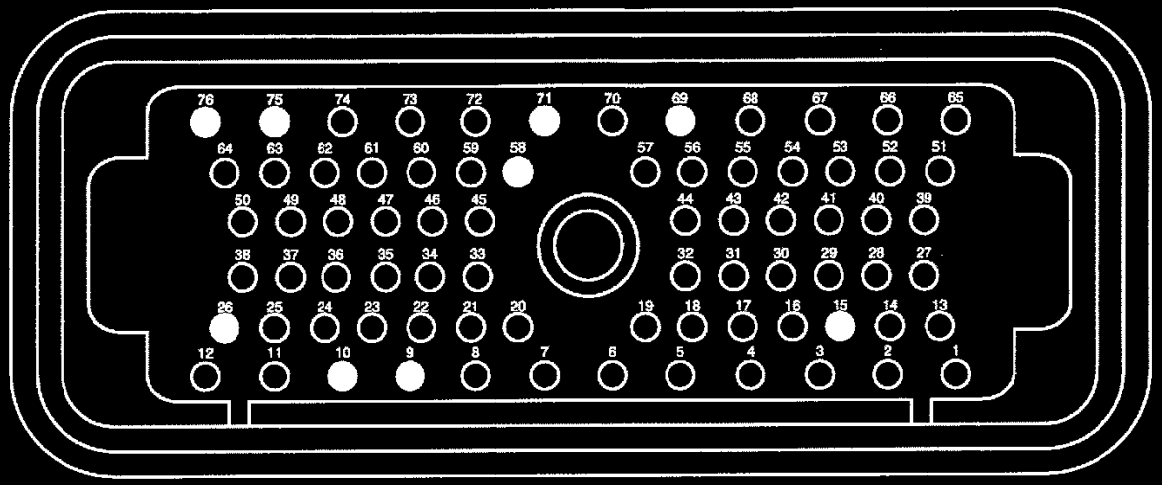

14401
C223
158 (BK/PK)
57 (BK)
848 (DG/OG)
1 (DB)
57 (BK)
19 (LB/RD)
151 (LB/BK)
1
2
3
4
5
6



PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	20	640 (RD/YE)	39	664 (YE/LG)	57	224 (TN/WH)
2	752 (YE/RD)	21	676 (PK/OG)	40	531 (DG/YE)	58	875 (BK/LB)
3	37 (YE)	22	753 (YE/RD)	41	39 (RD/WH)	59	464 (BK/PK)
4	261 (OG/BK)	23	679 (GY/BK)	42	19 (LB/RD)	60	658 (PK/LG)
5	38 (BK/OG)	24	848 (DG/OG)	43	40 (LB/WH)	61	359 (GY/RD)
6	49 (OG)	25	535 (LB/RD)	44	619 (PK/WH)	62	348 (VT)
7	932 (GY/WH)	26	—	45	911 (WH/LG)	63	3 (LG/WH)
8	58 (WH)	27	523 (RD/PK)	46	941 (BK/WH)	64	260 (RD/OG)
9	754 (LG/WH)	28	519 (LG/BK)	47	512 (TN/LG)	65	269 (LB/OG)
10	—	29	14 (BN)	48	31 (WH/RD)	66	61 (YE/RD)
11	65 (DG)	30	298 (VT/OG)	49	162 (LG/RD)	67	137 (YE/BK)
12	28 (BK/VT)	31	128 (VT/YE)	50	53 (BK/LB)	68	511 (LG)
13	56 (DB/OG)	32	151 (LB/PK)	51	676 (PK/OG)	69	—
14	1 (DB)	33	489 (PK/BK)	52	54 (LG/YE)	70	85 (BN/LB)
15	—	34	729 (RD/WH)	53	904 (LG/RD)	71	—
16	19 (LB/RD)	35	195 (TN/WH)	54	643 (RD)	72	757 (RD/WH)
17	676 (PK/OG)	36	29 (YE/WH)	55	10 (LG/RD)	73	867 (DB)
18	13 (RD/BK)	37	599 (PK/LG)		483 (RD)	74	868 (GY/RD)
19	12 (LG/BK)	38	2 (WH/LB)	56	603 (DG)	75	—
						76	

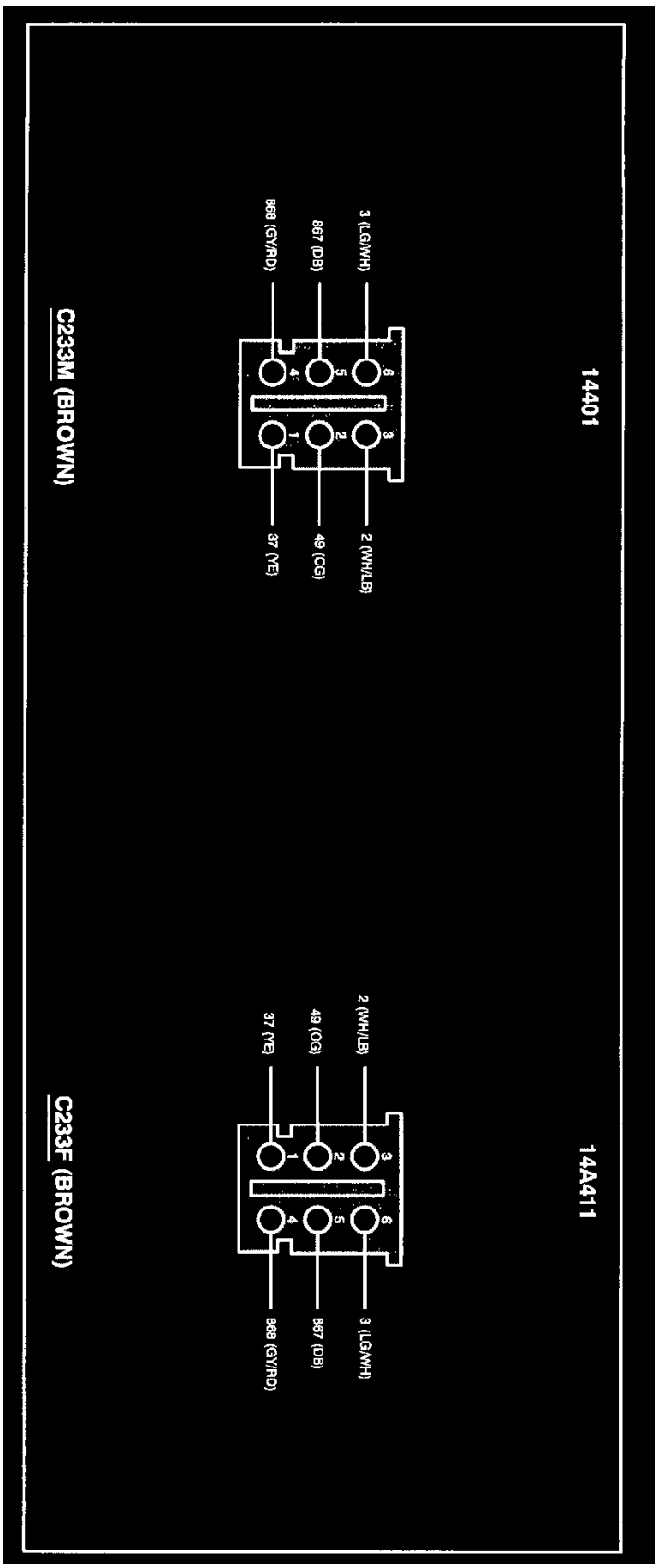
12A581

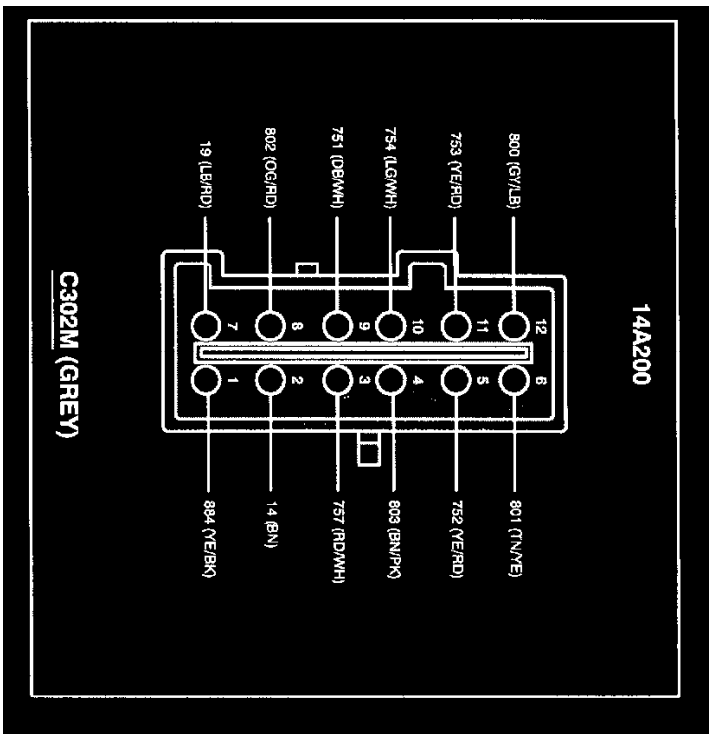
* 7.3L DIESEL

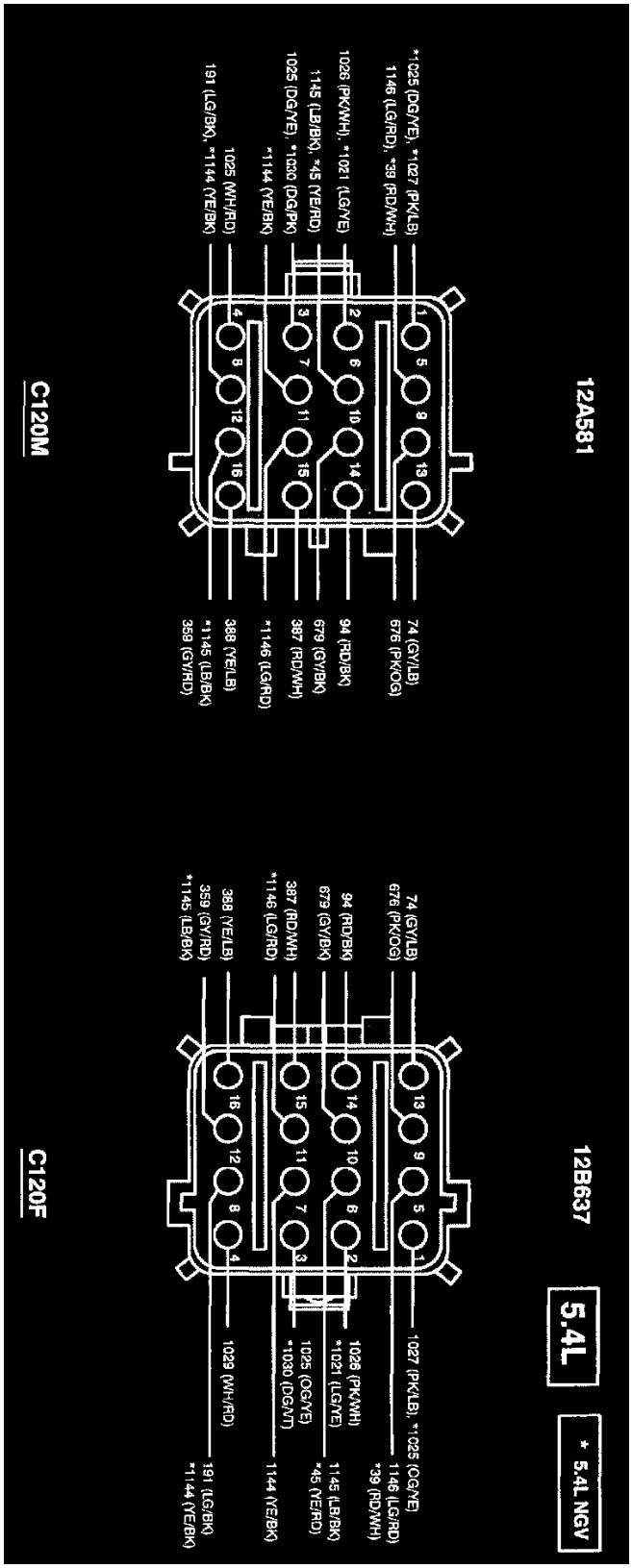


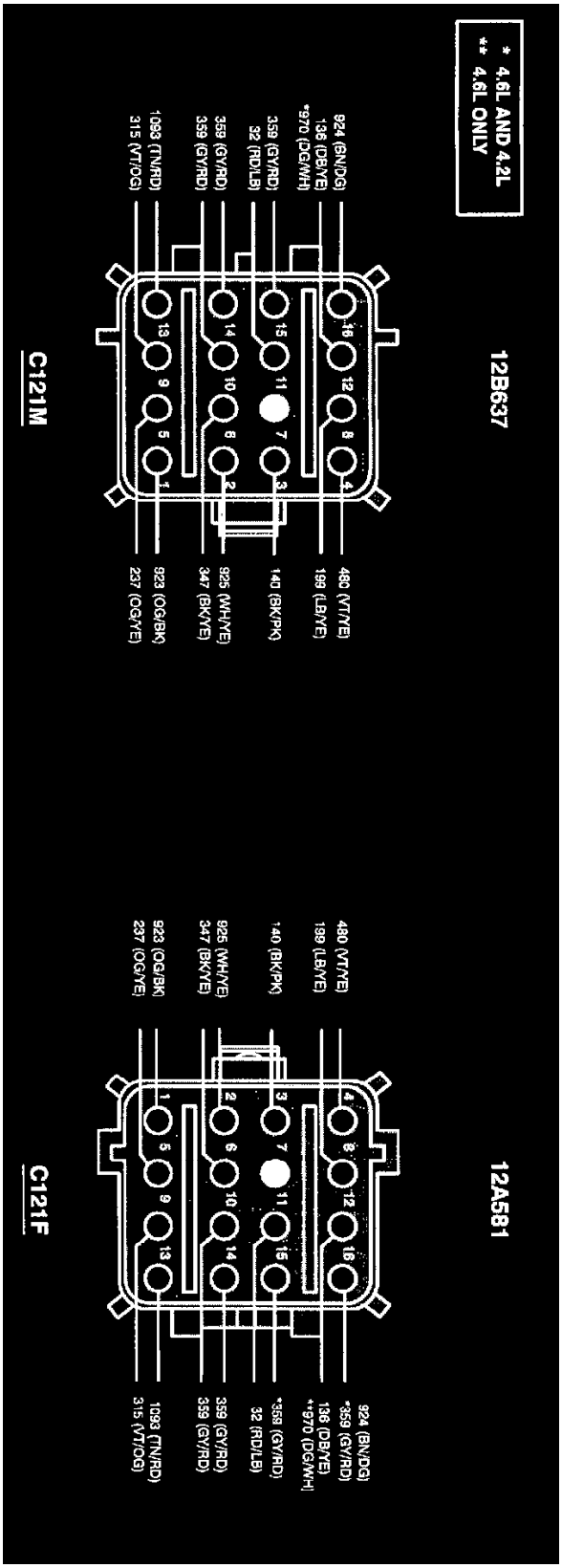
C229M (BLACK)

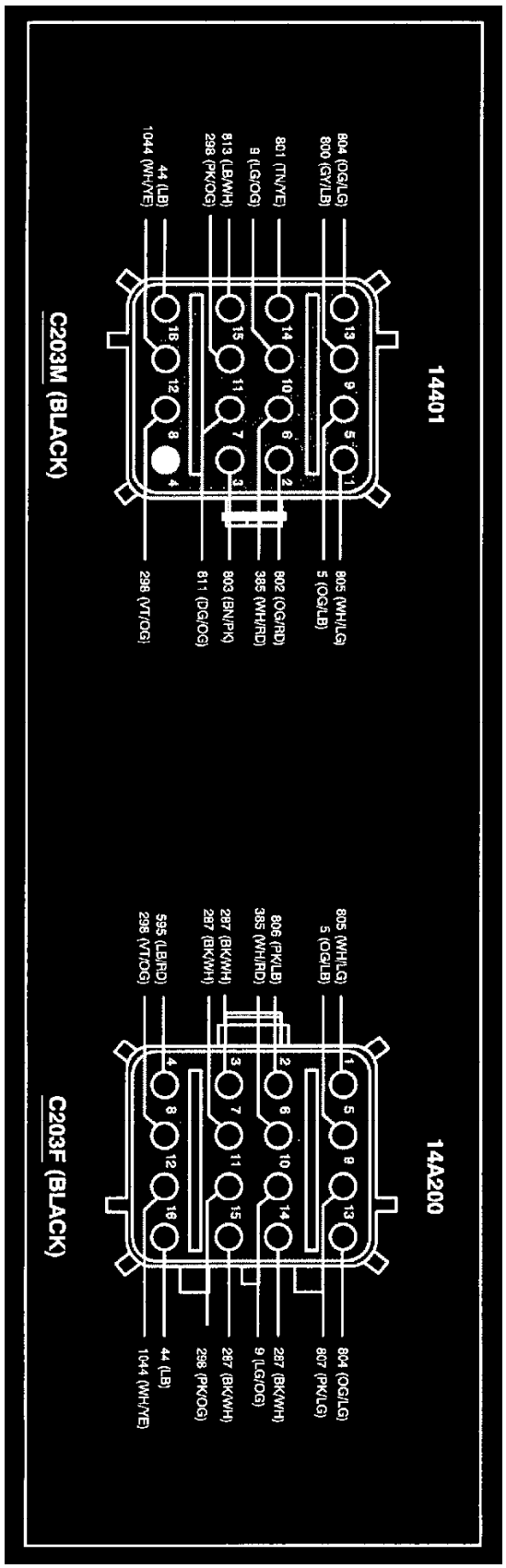
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	751 (DB/WH)	20	640 (RD/YE)	38	2 (WH/BK)	58	875 (BK/LB)
2	752 (YE/RD)	21	676 (PK/OG)	39	664 (YE/LG)	59	464 (BK/PK)
3	37 (YE)	22	753 (YE/RD)	40	531 (DG/YE)	60	658 (PK/LG)
4	261 (OG/BK)	23	679 (GY/BK)	41	39 (RD/WH)	61	651 (BK/YE)
5	38 (BK/OG)	24	848 (DG/OG)	42	19 (LB/RD)	62	348 (VT)
6	49 (OG)		*359 (GY/RD)	43	40 (LB/WH)	63	3 (LG/WH)
7	58 (WH)	25	535 (LB/RD)	44	619 (PK/WH)	64	260 (RD/OG)
8	754 (LG/WH)	26	–	45	911 (WH/LG)	65	269 (LB/OG)
9	–	27	523 (RD/PK)	46	941 (BK/WH)	66	61 (YE/RD)
10	–	28	519 (LG/BK)	47	512 (TN/LG)	67	137 (YE/BK)
11	65 (DG)	29	14 (BN)	48	31 (WH/RD)	68	511 (LG)
12	28 (BK/PK)	30	298 (VT/OG)	49	162 (LG/RD)	69	–
13	56 (DB/OG)	31	128 (VT/YE)	50	53 (BK/LB)	70	85 (BN/LB)
14	1 (DB)	32	151 (LB/BK)	51	676 (PK/OG)	71	–
15	–	33	489 (PK/BK)	52	54 (LG/YE)	72	757 (RD/WH)
16	19 (LB/RD)	34	729 (RD/WH)	53	904 (LG/RD)	73	867 (DB)
17	676 (PK/OG)	35	195 (TN/WH)	54	643 (RD)	74	868 (GY/RD)
18	13 (RD/BK)	36	29 (YE/WH)	55	10 (LG/RD)	75	–
19	12 (LG/BK)	37	599 (PK/LG)	56	603 (DG)	76	–
				57	224 (TN/WH)		

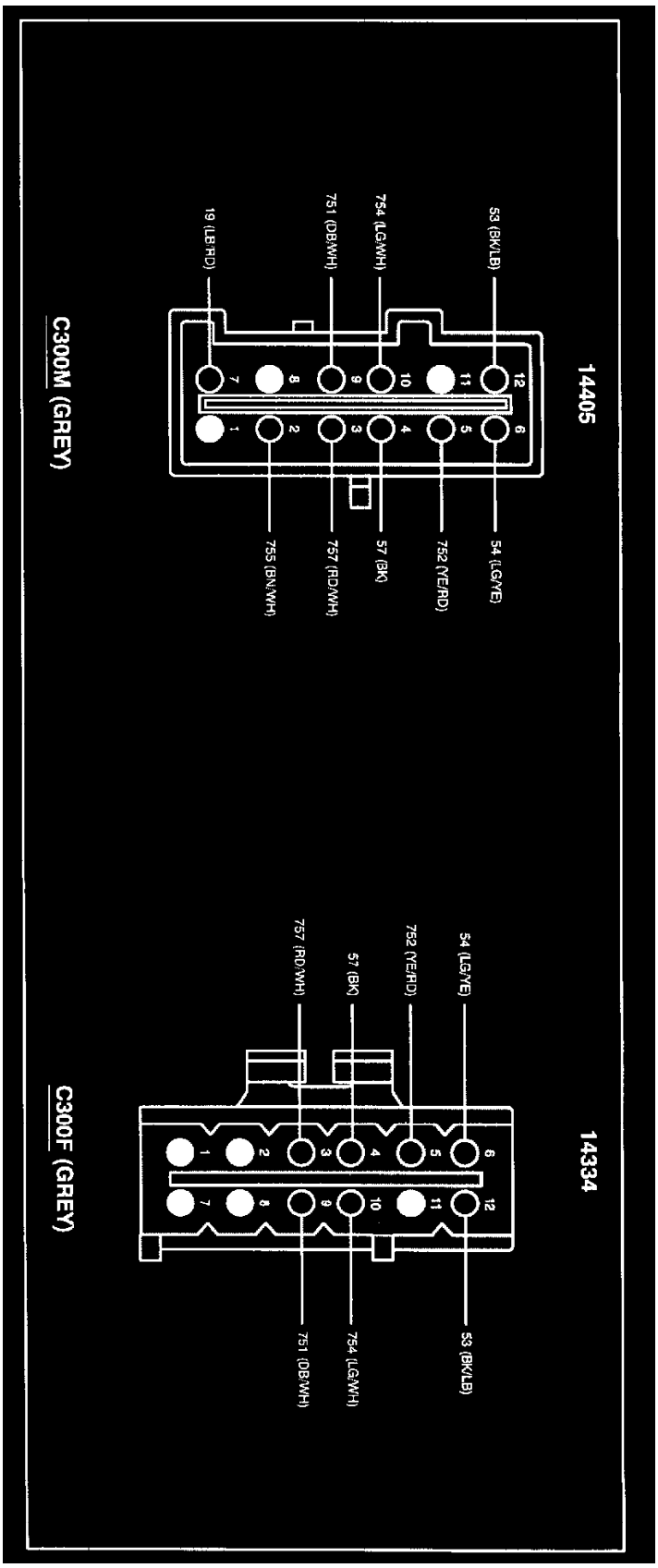

14401
3 (LG/WH)
867 (DB)
868 (GY/RD)
2 (WH/LB)
49 (OG)
37 (YE)
C233M (BROWN)
14A411
2 (WH/LB)
49 (OG)
37 (YE)
3 (LG/WH)
867 (DB)
868 (GY/RD)
C233F (BROWN)

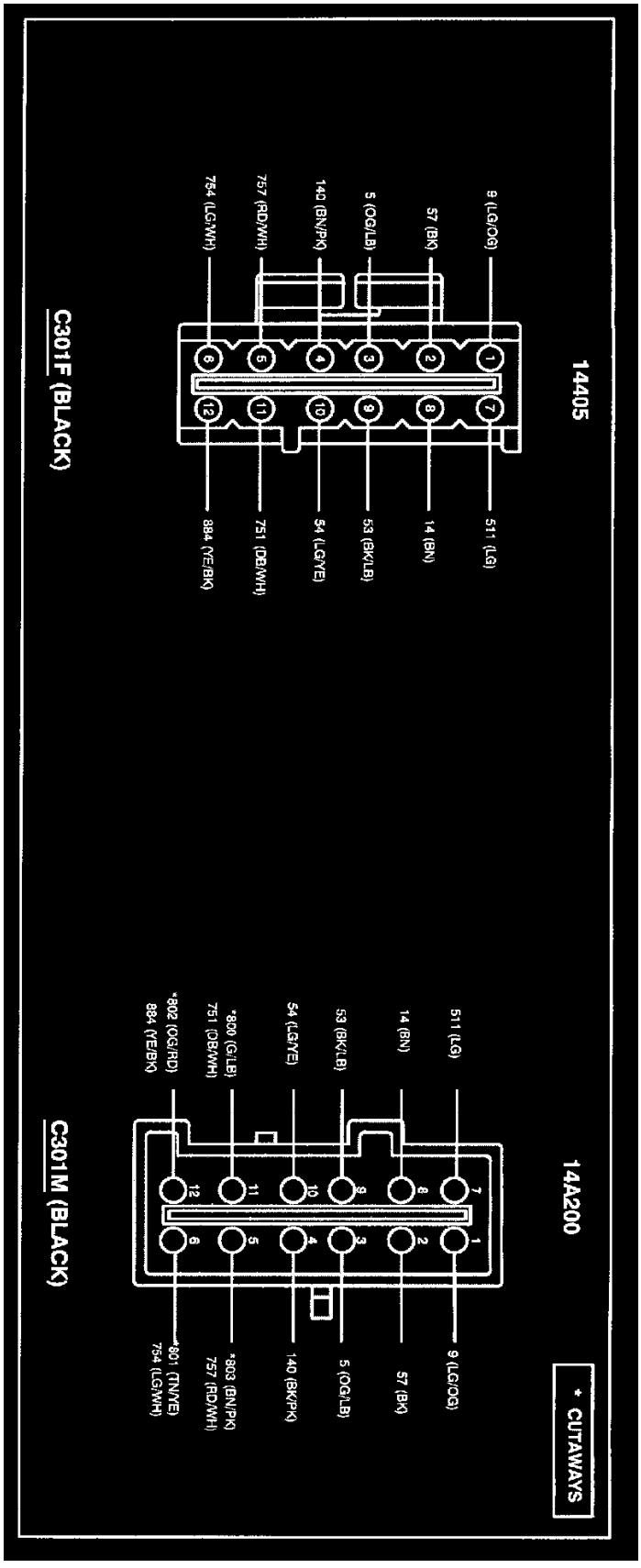

14A200
800 (GY/LB)
753 (YE/RD)
754 (LG/WH)
751 (DB/WH)
802 (OG/RD)
19 (LB/RD)
801 (TN/YE)
752 (YE/RD)
803 (BN/PK)
757 (RD/WH)
14 (BN)
884 (YE/BK)
C302M (GREY)

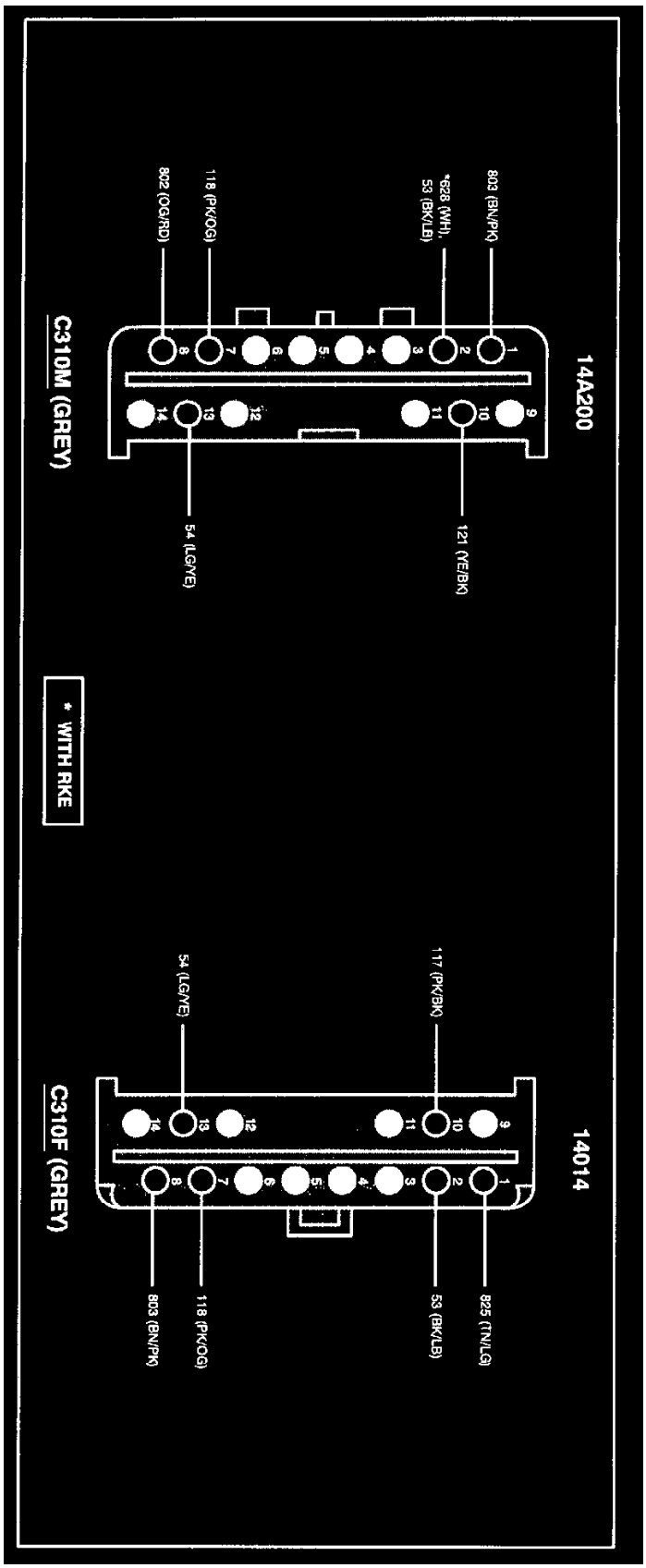

12A581
C120M
*1025 (DG/YE), *1027 (PK/LB)
1146 (LG/RD), *39 (RD/WH)
1026 (PK/WH), *1021 (LG/YE)
1145 (LB/BK), *45 (YE/RD)
1025 (DG/YE), *1030 (DG/PK)
*1144 (YE/BK)
1025 (WH/RD)
191 (LG/BK), *1144 (YE/BK)
74 (GY/LB)
676 (PK/OG)
94 (RD/BK)
679 (GY/BK)
387 (RD/WH)
*1146 (LG/RD)
368 (YE/LB)
*1145 (LB/BK)
359 (GY/RD)
12B637
5.4L
* 5.4L NGV
C120F
74 (GY/LB)
676 (PK/OG)
94 (RD/BK)
679 (GY/BK)
387 (RD/WH)
*1146 (LG/RD)
368 (YE/LB)
359 (GY/RD)
*1145 (LB/BK)
1027 (PK/LB), *1025 (OG/YE)
1026 (PK/WH)
*1021 (LG/YE)
1025 (OG/YE)
*1030 (DG/VT)
1029 (WH/RD)
1146 (LG/RD)
*39 (RD/WH)
1145 (LB/BK)
*45 (YE/RD)
1144 (YE/BK)
191 (LG/BK)
*1144 (YE/BK)

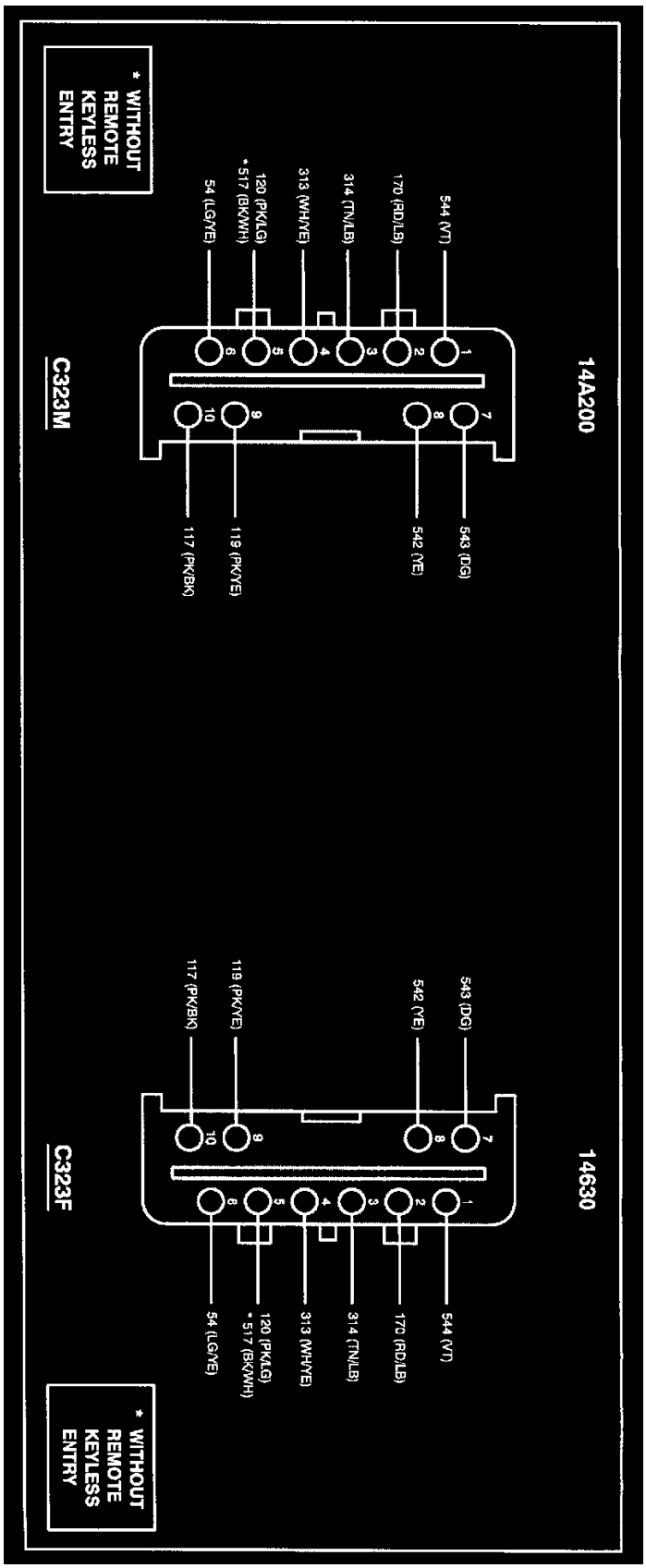

* 4.6L AND 4.2L
** 4.6L ONLY
12B637
924 (BN/DG)
136 (DB/YE)
*970 (DG/WH)
339 (GY/RD)
32 (RD/LB)
359 (GY/RD)
359 (GY/RD)
1093 (TN/RD)
315 (VT/OG)
480 (VT/YE)
199 (LB/YE)
140 (BK/PK)
925 (WH/YE)
347 (BK/YE)
923 (OG/BK)
237 (OG/YE)
C121M
12A581
480 (VT/YE)
199 (LB/YE)
140 (BK/PK)
925 (WH/YE)
347 (BK/YE)
923 (OG/BK)
237 (OG/YE)
924 (BN/DG)
*359 (GY/RD)
136 (DB/YE)
**970 (DG/WH)
*358 (GY/RD)
32 (RD/LB)
359 (GY/RD)
359 (GY/RD)
1093 (TN/RD)
315 (VT/OG)
C121F

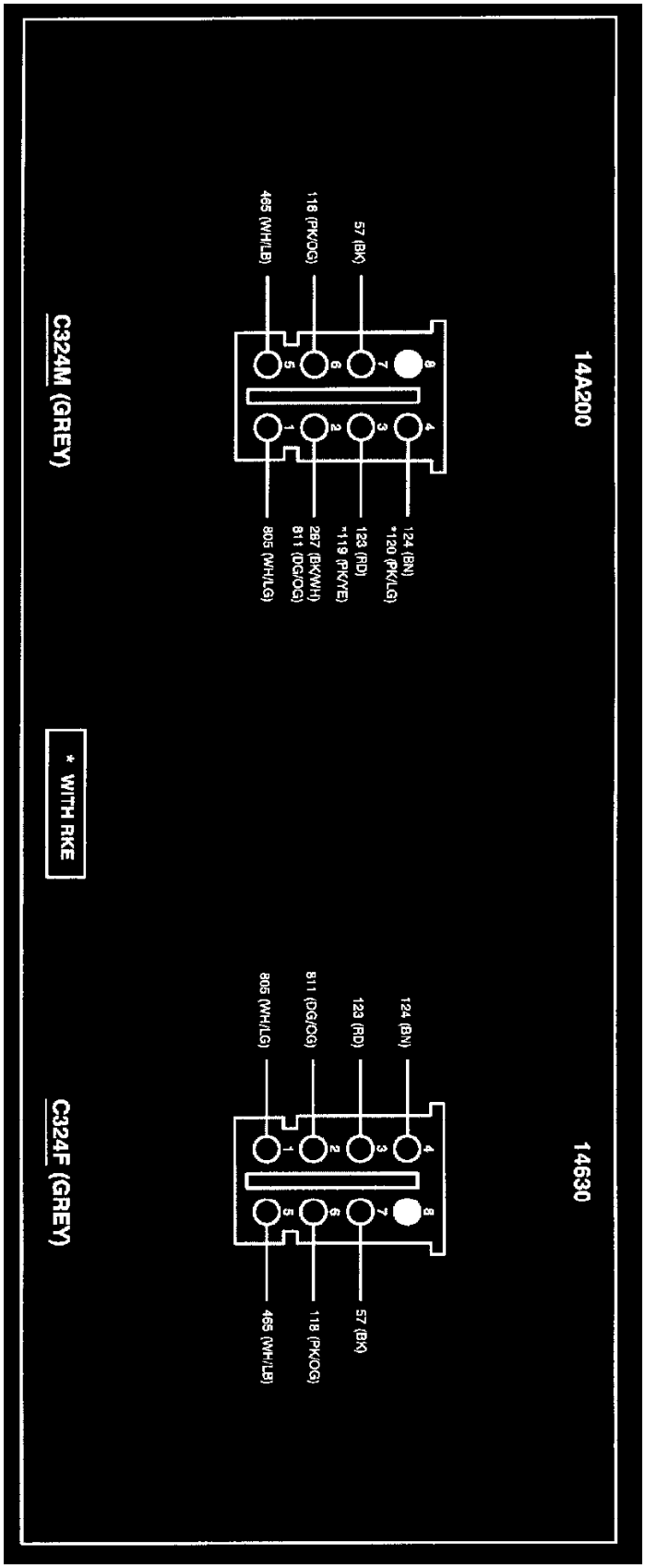

14401
804 (OG/LG)
800 (GY/LB)
801 (TN/YE)
9 (LG/OG)
813 (LB/WH)
296 (PK/OG)
44 (LB)
1044 (WH/YE)
805 (WH/LG)
5 (OG/LB)
802 (OG/RD)
385 (WH/RD)
803 (BN/PK)
811 (DG/OG)
296 (VT/OG)
C203M (BLACK)
14A200
805 (WH/LG)
5 (OG/LB)
806 (PK/LB)
385 (WH/RD)
287 (BK/WH)
287 (BK/WH)
595 (LB/RD)
296 (VT/OG)
804 (OG/LG)
807 (PK/LG)
287 (BK/WH)
9 (LG/OG)
287 (BK/WH)
296 (PK/OG)
44 (LB)
1044 (WH/YE)
C203F (BLACK)

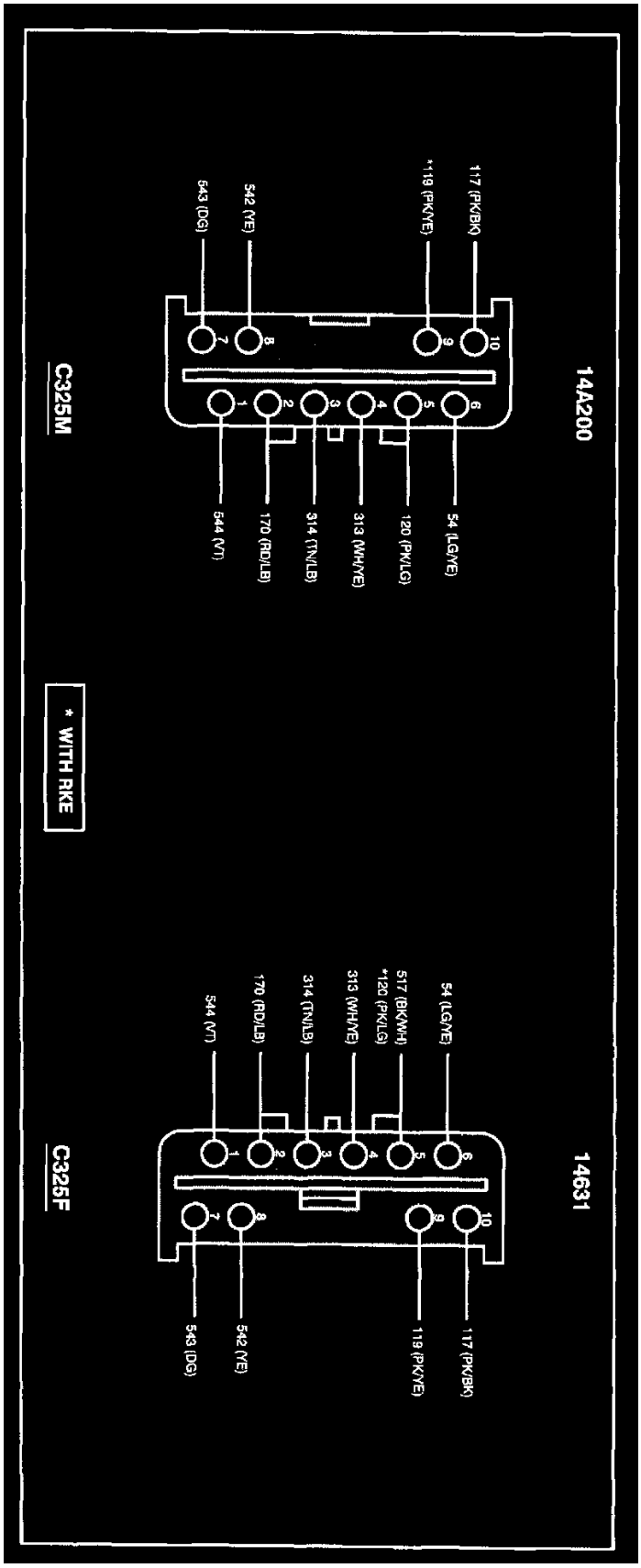

14405
C300M (GREY)
53 (BK/LB)
754 (LG/WH)
751 (DB/WH)
19 (LB/RD)
54 (LG/YE)
752 (YE/RD)
57 (BK)
757 (RD/WH)
755 (BN/WH)
14334
C300F (GREY)
54 (LG/YE)
752 (YE/RD)
57 (BK)
757 (RD/WH)
53 (BK/LB)
754 (LG/WH)
751 (DB/WH)

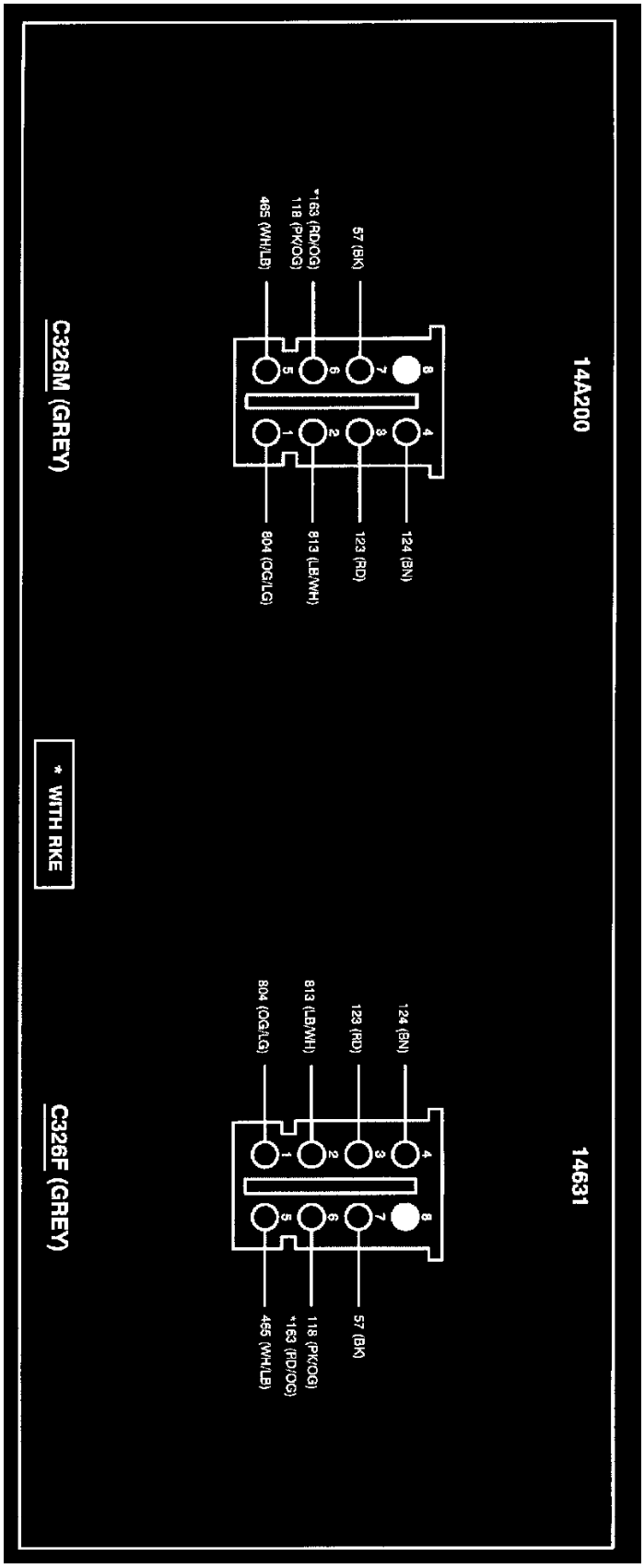

14405
C301F (BLACK)
9 (LG/OG)
57 (BK)
5 (OG/LB)
140 (BN/PK)
757 (RD/WH)
754 (LG/WH)
511 (LG)
14 (BN)
53 (BK/LB)
54 (LG/YE)
751 (DB/WH)
884 (YE/BK)
14A200
C301M (BLACK)
* CUTAWAYS
511 (LG)
14 (BN)
53 (BK/LB)
54 (LG/YE)
*800 (G/LB)
751 (DB/WH)
*802 (OG/RD)
884 (YE/BK)
9 (LG/OG)
57 (BK)
5 (OG/LB)
140 (BK/PK)
*803 (BN/PK)
757 (RD/WH)
*801 (TN/YE)
754 (LG/WH)

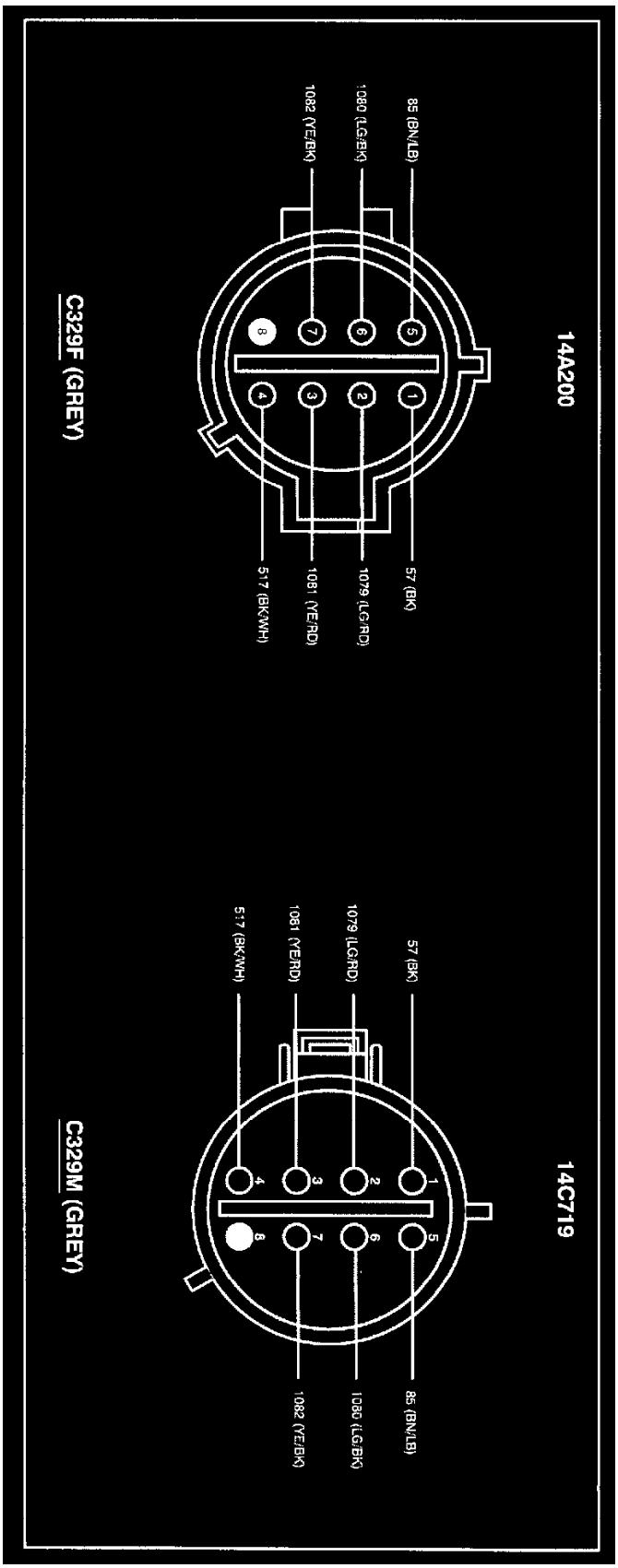

14A200
803 (BN/PK)
*628 (WH),
53 (BK/LB)
118 (PK/OG)
802 (OG/RD)
121 (YE/BK)
54 (LG/YE)
C310M (GREY)
* WITH RKE
14014
925 (TN/LG)
53 (BK/LB)
118 (PK/OG)
803 (BN/PK)
117 (PK/BK)
54 (LG/YE)
C310F (GREY)

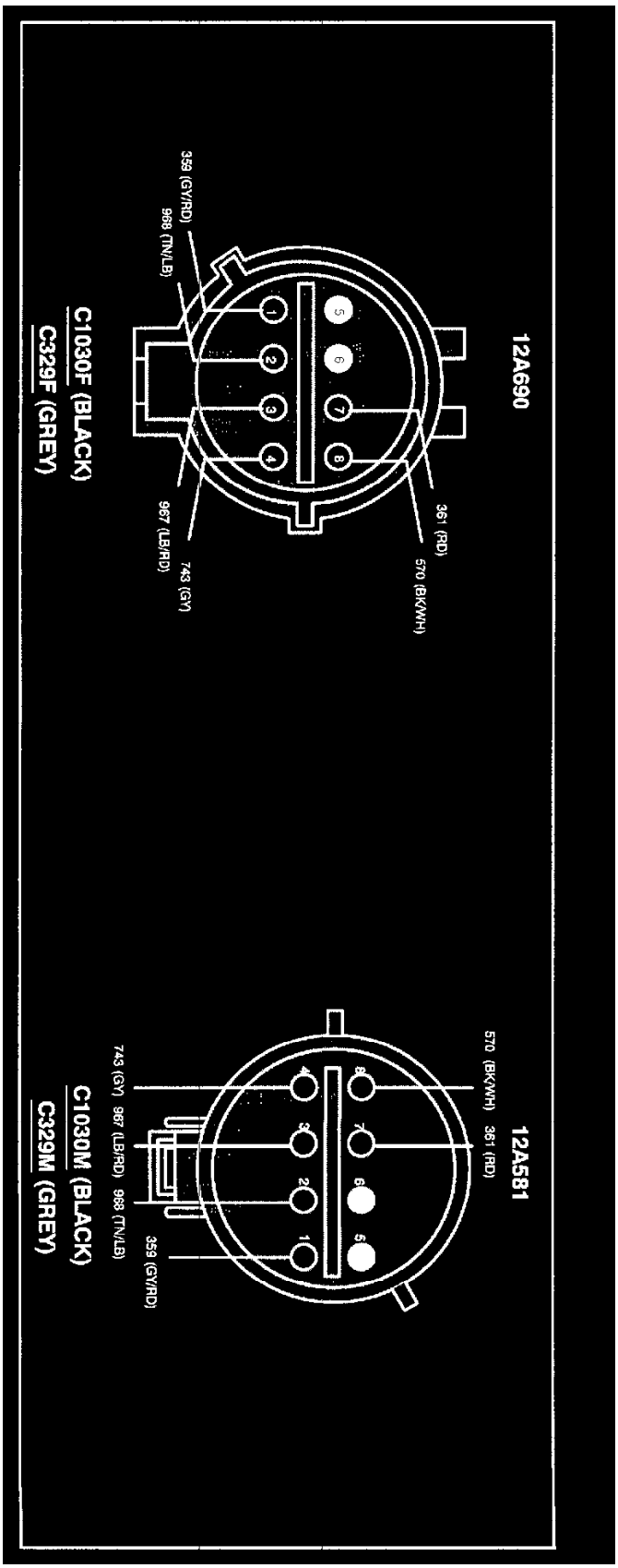

14A200
C323M
544 (VT)
170 (RD/LB)
314 (TN/LB)
313 (WH/YE)
120 (PK/LG)
* 517 (BK/WH)
54 (LG/YE)
543 (DG)
542 (YE)
119 (PK/YE)
117 (PK/BK)
* WITHOUT REMOTE KEYLESS ENTRY
14630
C323F
543 (DG)
542 (YE)
119 (PK/YE)
117 (PK/BK)
544 (VT)
170 (RD/LB)
314 (TN/LB)
313 (WH/YE)
120 (PK/LG)
* 517 (BK/WH)
54 (LG/YE)
* WITHOUT REMOTE KEYLESS ENTRY

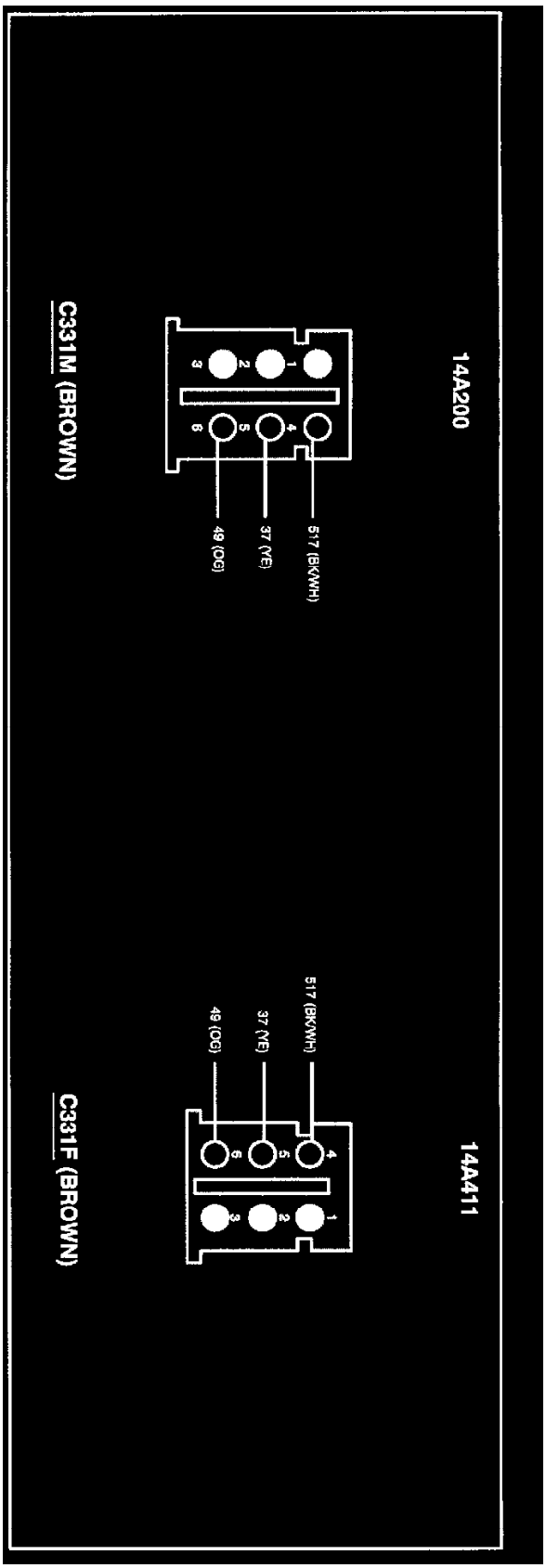

14A200
14630
C324M (GREY)
C324F (GREY)
* WITH RKE
124 (BN)
*120 (PK/LG)
123 (RD)
*119 (PK/YE)
287 (BK/WH)
811 (DG/OG)
805 (WH/LG)
57 (BK)
118 (PK/OG)
465 (WH/LB)

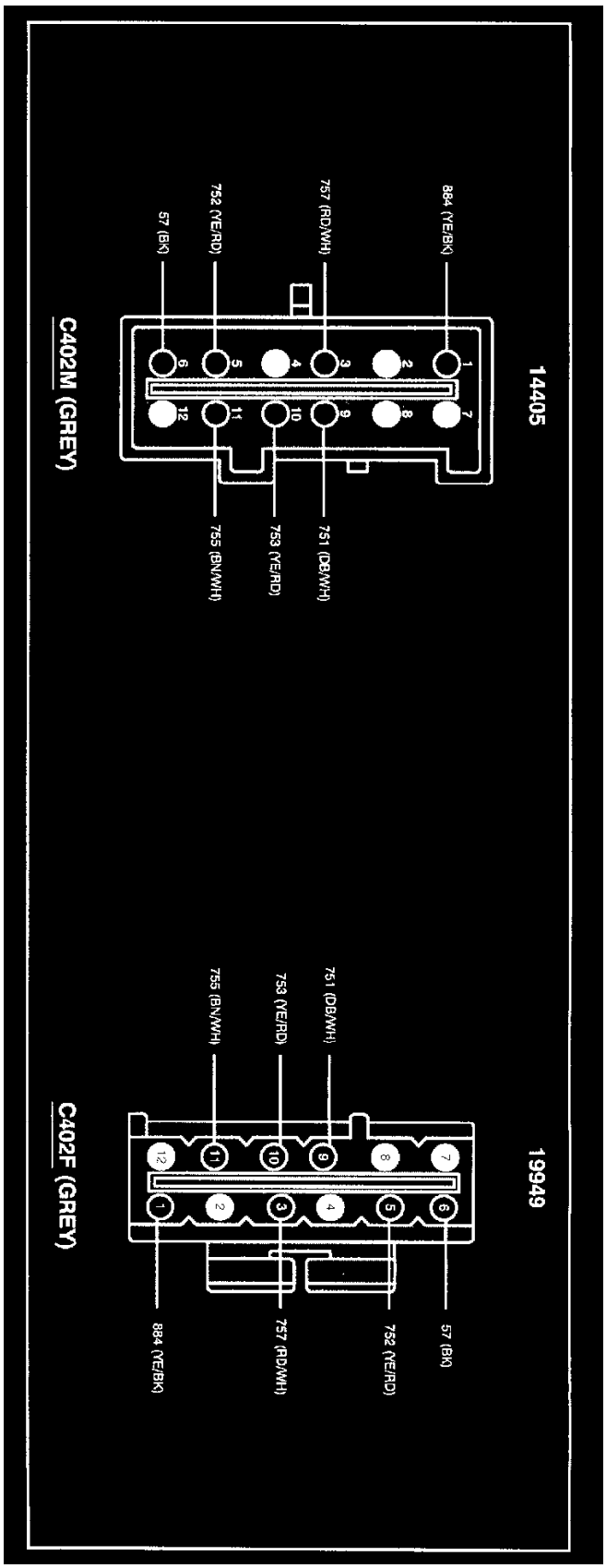

14A200
C325M
117 (PK/BK)
*119 (PK/YE)
542 (YE)
543 (DG)
54 (LG/YE)
120 (PK/LG)
313 (WH/YE)
314 (TN/LB)
170 (RD/LB)
544 (VT)
* WITH RKE
14631
C325F
54 (LG/YE)
517 (BK/WH)
*120 (PK/LG)
313 (WH/YE)
314 (TN/LB)
170 (RD/LB)
544 (VT)
119 (PK/YE)
117 (PK/BK)
542 (YE)
543 (DG)

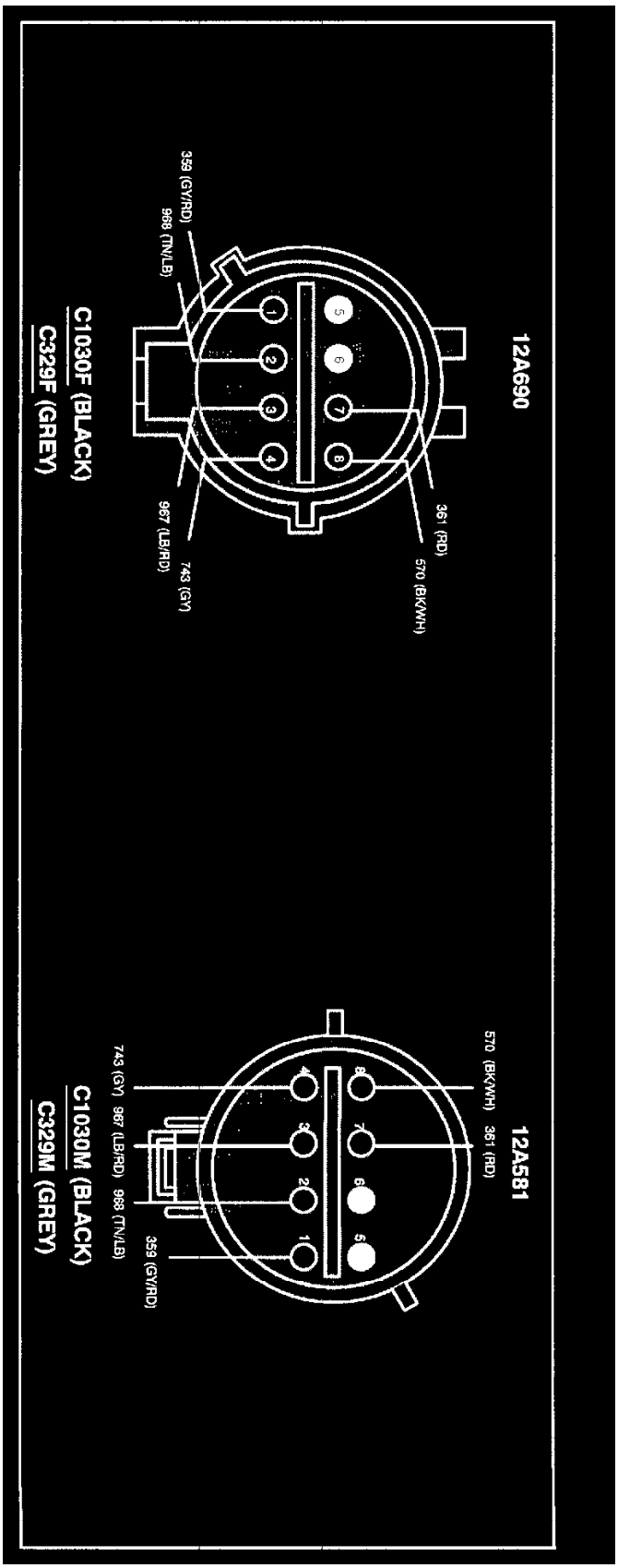

14A200
C326M (GREY)
57 (BK)
*163 (RD/OG)
118 (PK/OG)
465 (WH/LB)
124 (BN)
123 (RD)
813 (LB/WH)
804 (OG/LG)
* WITH RKE
14631
C326F (GREY)
124 (BN)
123 (RD)
813 (LB/WH)
804 (OG/LG)
57 (BK)
118 (PK/OG)
*163 (RD/OG)
465 (WH/LB)

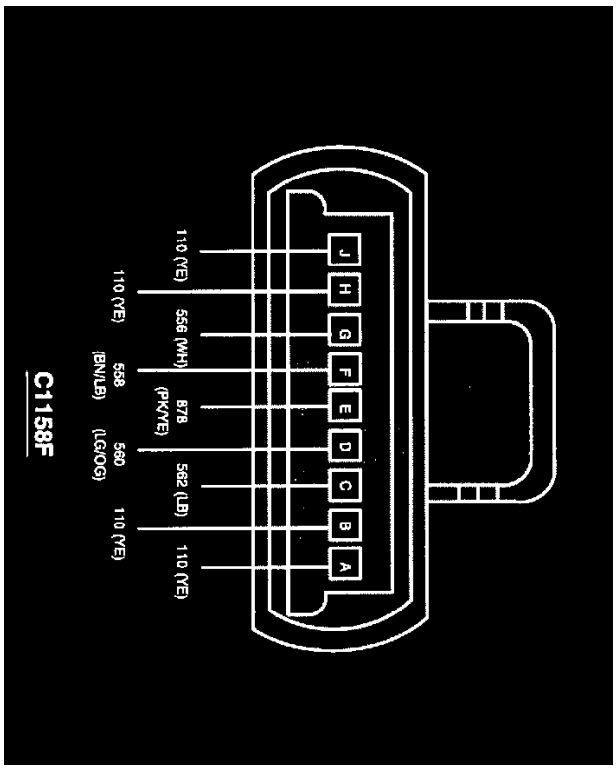

14A200
C329F (GREY)
85 (BN/LB)
1080 (LG/BK)
1082 (YE/BK)
57 (BK)
1079 (LG/RD)
1081 (YE/RD)
517 (BK/WH)
14C719
C329M (GREY)
57 (BK)
1079 (LG/RD)
1081 (YE/RD)
517 (BK/WH)
85 (BN/LB)
1080 (LG/BK)
1082 (YE/BK)

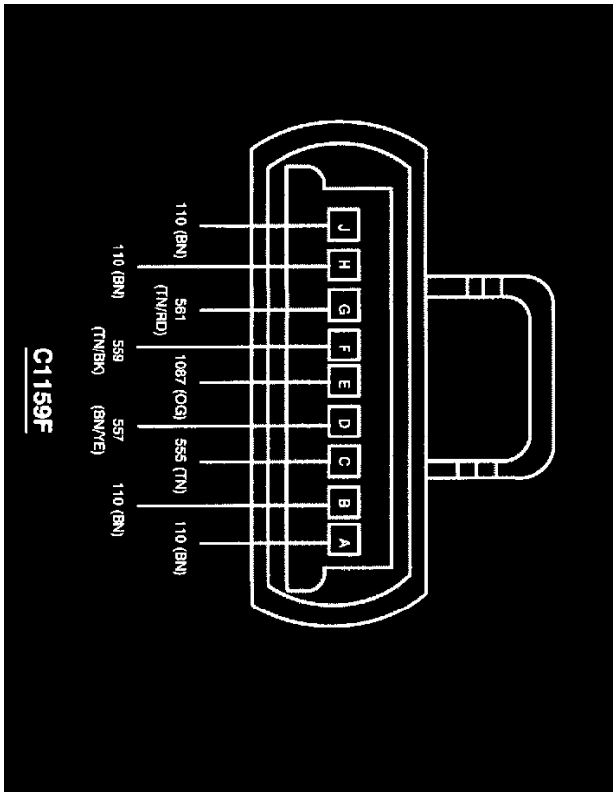

12A690
359 (GY/RD)
968 (TN/LB)
967 (LB/RD)
743 (GY)
361 (RD)
570 (BK/WH)
C1030F (BLACK)
C329F (GREY)
12A581
570 (BK/WH)
361 (RD)
743 (GY)
967 (LB/RD)
968 (TN/LB)
359 (GY/RD)
C1030M (BLACK)
C329M (GREY)


14A200
C331M (BROWN)
517 (BK/WH)
37 (YE)
49 (DG)
14A411
C331F (BROWN)
517 (BK/WH)
37 (YE)
49 (DG)

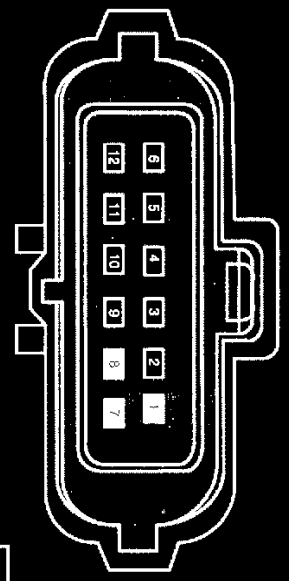

14405
884 (YE/BK)
757 (RD/WH)
752 (YE/RD)
57 (BK)
C402M (GREY)
751 (DB/WH)
753 (YE/RD)
755 (BN/WH)
19949
751 (DB/WH)
753 (YE/RD)
755 (BN/WH)
57 (BK)
752 (YE/RD)
757 (RD/WH)
884 (YE/BK)
C402F (GREY)


12A690
359 (GY/RD)
968 (TN/LB)
967 (LB/RD)
743 (GY)
361 (RD)
570 (BK/WH)
C1030F (BLACK)
C329F (GREY)
12A581
570 (BK/WH)
361 (RD)
743 (GY)
967 (LB/RD)
968 (TN/LB)
359 (GY/RD)
C1030M (BLACK)
C329M (GREY)


C1158F
J
H
G
F
E
D
C
B
A
110 (YE)
110 (YE)
556 (MH)
558 (BN/LB)
878 (PK/YE)
560 (LG/OG)
562 (LB)
110 (YE)
110 (YE)

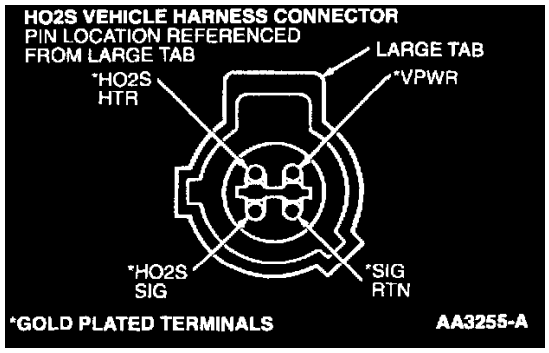

C1159F
J
H
G
F
E
D
C
B
A
110 (BN)
110 (BN)
561 (TN/RD)
559 (TN/BK)
1087 (CG)
557 (BN/YE)
555 (TN)
110 (BN)
110 (BN)

C115
DIGITAL TRANSMISSION RANGE (DTR) SENSOR
4R100



PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	199 (LB/YE)	TR3A Signal to PCM
4	1144 (WH/YE)	TR1 Signal to PCM
5	1145 (DB/WH)	TR2 Signal to PCM
6	1143 (DG/YE)	TR4 Signal to PCM
7	–	NOT USED
8	–	NOT USED
9	296 (WH/VT)	Fused Power Feed (Hot in Run)
10	32 (RD/LB)	Starter Relay Enable
11	140 (BK/PK)	Reversing Lamp Output (Hot in Reverse)
12	1093 (TN/RD)	Start Signal from Steering Column/ Ignition/Lighting Control Module

Oxygen Sensor

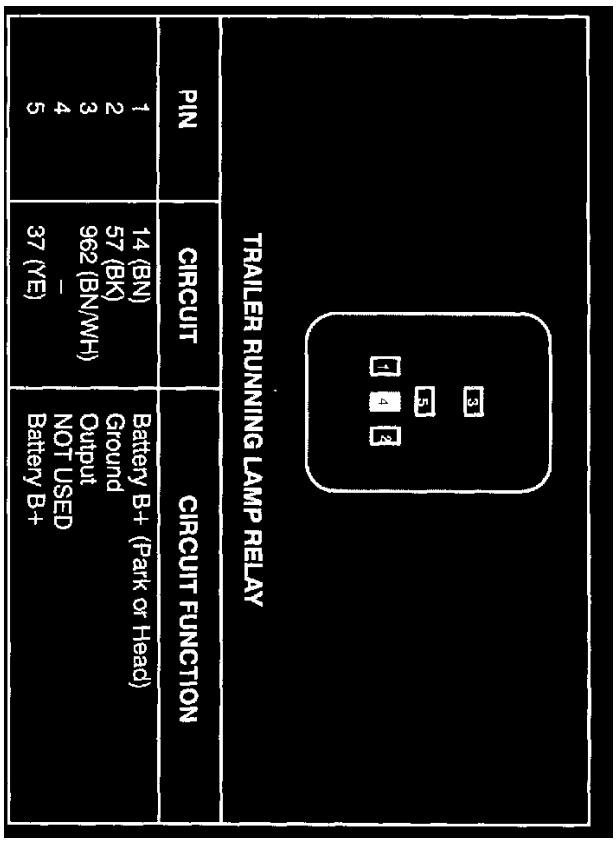


Oxygen Sensor Vehicle Harness Connector

	HO2S-11	HTR-11	HO2S-12	HTR-12	HO2S-21	HTR-21	HO2S-22	HTR-22	VPWR	SIG RTN	PWR GND
LS6/LS8	C45	B7	C28	C15	C44	B8	C29	C16	A32/ A33	B7/ C17	A-24, 26
Cougar/ Contour/ Mystique	60	*73	35	100	87	99	61	101	71/97	91	51,77, 103
All others	60	93	35	95	87	94	61	96	71/97	91	51,77, 103

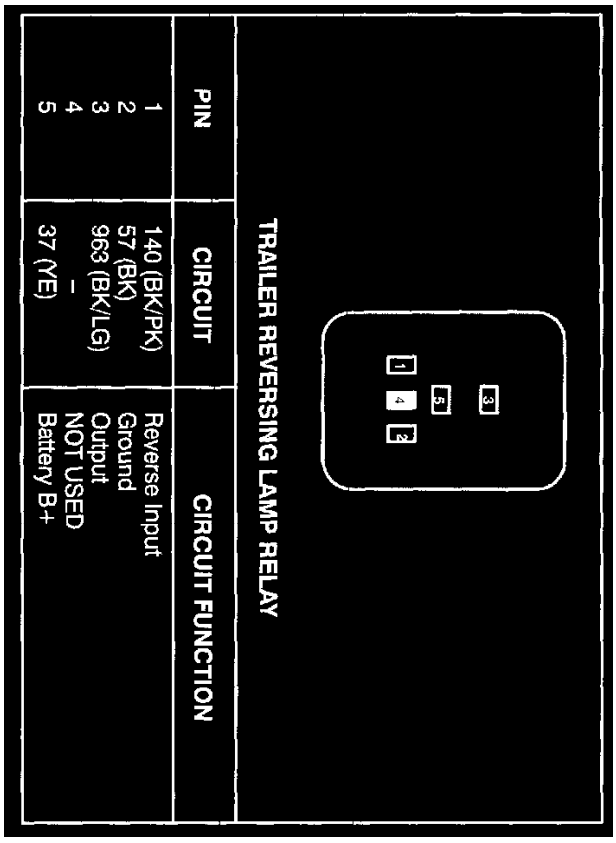
a 2.0L Cougar with Returnless Fuel Pin 93.

PCM Connector Pin Numbers



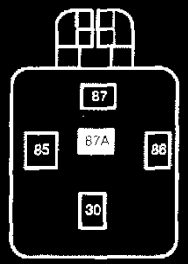
TRAILER RUNNING LAMP RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
1	14 (BN)	Battery B+ (Park or Head)
2	57 (BK)	Ground
3	962 (BN/WH)	Output
4	—	NOT USED
5	37 (YE)	Battery B+



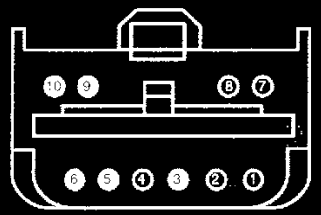
TRAILER REVERSING LAMP RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
1	140 (BK/PK)	Reverse Input
2	57 (BK)	Ground
3	963 (BK/LG)	Output
4	—	NOT USED
5	37 (YE)	Battery B+



TRAILER BATTERY CHARGE RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
30	37 (YE)	Battery B+
85	57 (BK)	Ground
86	296 (WH/VT)	Ignition B+ (Acc or Run)
87	49 (OG)	Output
87A	–	NOT USED

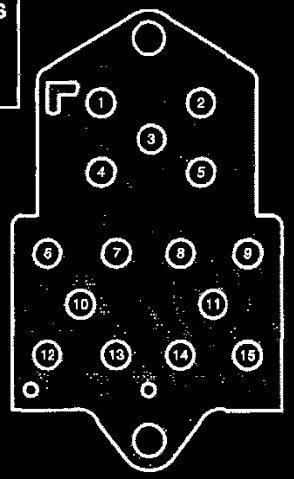


C330

MEMORY LOCK MODULE

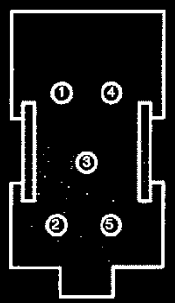
PIN	CIRCUIT	CIRCUIT FUNCTION
1	118 (PK/OG)	Door Lock Actuator (LOCK) Input
2	117 (PK/BK)	Door Lock Actuator (UNLOCK) Input
3	–	NOT USED
4	57 (BK)	Ground
5	–	NOT USED
6	–	NOT USED
7	121 (YE/BK)	Side Door (LOCK) Output
8	517 (BK/WH)	Power (Hot at All Times)
9	–	NOT USED
10	–	NOT USED

* WITH REMOTE/KEYLESS ENTRY
** WITHOUT REMOTE/ KEYLESS ENTRY



C500
MASTER WINDOW/DOOR LOCK CONTROL SWITCH

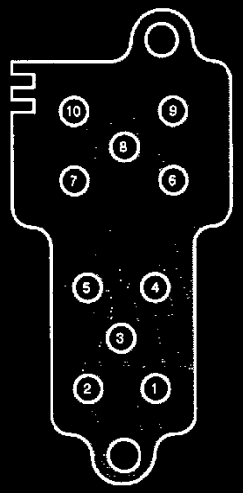
PIN	CIRCUIT	CIRCUIT FUNCTION
*1	–	NOT USED
**1	124 (BN)	Doors Unlock Feed
*2	120 (PK/LG)	Doors Unlock Feed
**2	118 (PK/OG)	Doors Lock Feed
*3	54 (LG/YE)	Power (Hot at All Times)
**3	517 (BK/WH)	Power (Hot at All Times)
*4	119 (PK/YE)	Doors Lock Feed
**4	117 (PK/BK)	Doors Unlock Feed
*5	–	NOT USED
**5	123 (RD)	Door Lock Input
6	226 (WH/BK)	Power Window Motor Up Feed
7	57 (BK)	Ground
8	314 (TN/LB)	Power Window Motor Up Feed
9	57 (BK)	Ground
10	170 (RD/LB)	Power (Acc or Run)
11	170 (RD/LB)	Power (Acc or Run)
12	57 (BK)	Ground
13	227 (YE)	Power Window Motor Down Feed
14	57 (BK)	Ground
15	313 (WH/YE)	Power Window Motor Down Feed



C425
REAR POWER DOOR LOCK SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	124 (BN)	Doors Unlock Feed
2	120 (PK/LG)	Doors Lock Feed
3	517 (BK/WH)	Power (Hot at All Times)
4	119 (PK/YE)	Doors Lock Feed
5	123 (RD)	Doors Unlock Feed

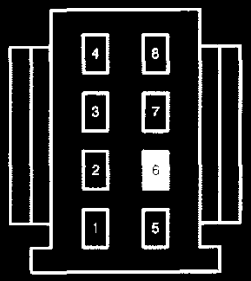
* WITH REMOTE/ KEYLESS ENTRY
** WITHOUT REMOTE/ KEYLESS ENTRY



C600
RH POWER DOOR LOCK/WINDOW SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	333 (YE/RD)	Power Window Motor Down Feed
2	314 (TN/LB)	Up Power Window Motor Up Feed
3	170 (RD/LB)	Power (Acc or Run)
4	313 (WH/YE)	Power Window Motor Down Feed
5	334 (RD/YE)	Power Window Motor Down Feed
*6	–	NOT USED
**6	57 (BK)	Ground
*7	120 (PK/LG)	Doors Lock Feed
**7	124 (BN)	Door Unlock Feed
*8	54 (LG/YE)	Power (Hot at All Times)
**8	517 (BK/WH)	Power (Hot at All Times)
*9	119 (PK/YE)	Doors Lock Feed
**9	123 (RD)	Doors Lock Feed
*10	–	NOT USED
**10	57 (BK)	Ground

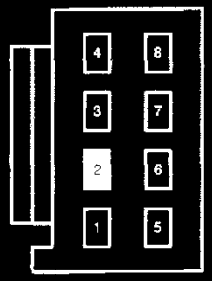
WITHOUT DOOR TRIM



C508
EXTERIOR REAR VIEW MIRROR SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	54 (LG/YE)	Battery (B+)
3	544 (VT)	Right UP/DN Motor Control
4	541 (DB)	Left UP/DN Motor Control
5	542 (YE)	Left/Right Mirror Control
6	–	NOT USED
7	543 (DG)	Right L/R Motor Control
8	540 (RD)	Left L/R Motor Control

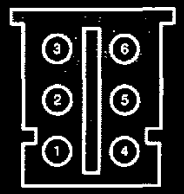
WITH DOOR TRIM



C505

EXTERIOR REAR VIEW MIRROR SWITCH

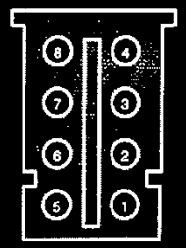
PIN	CIRCUIT	CIRCUIT FUNCTION
1	54 (LG/YE)	Battery (B+)
2	–	NOT USED
3	543 (DG)	Right L/R Motor Control
4	540 (RD)	Left L/R Motor Control
5	57 (BK)	Ground
6	542 (YE)	Left/Right Mirror Control
7	541 (DB)	Left UP/DN Motor Control
8	544 (VT)	Right UP/DN Motor Control



C338

DRIVER SEAT MOTOR ASSEMBLY

PIN	CIRCUIT	CIRCUIT FUNCTION
1	979 (RD/LB)	Front Height Motor Input/Output
2	990 (YE/LB)	Front Height Motor Input/Output
3	981 (RD/WH)	FWD/RWD Motor Input/Output
4	982 (YE/LG)	Rear Height Motor Input/Output
5	983 (RD/LG)	Rear Height Motor Input/Output
6	980 (YE/WH)	FWD/RWD Motor Input/Output

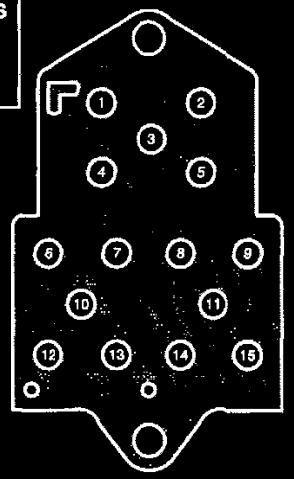


C337

DRIVER SEAT REGULATOR CONTROL SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	981 (RD/WH)	FWD/RWD Motor Control
3	517 (BK/WH)	Battery B+
4	983 (RD/LG)	Rear Height Motor Control
5	980 (YE/WH)	FWD/RWD Motor Control
6	979 (RD/LB)	Front Height Motor Control
7	982 (YE/LG)	Rear Height Motor Control
8	990 (YE/LB)	Front Height Motor Control

* WITH REMOTE/KEYLESS ENTRY
** WITHOUT REMOTE/ KEYLESS ENTRY

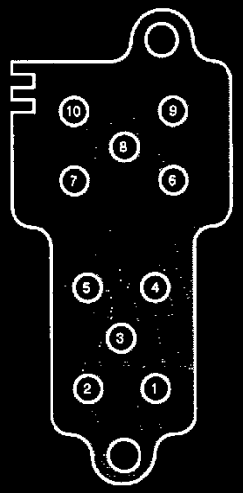


C500

MASTER WINDOW/DOOR LOCK CONTROL SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
*1	–	NOT USED
**1	124 (BN)	Doors Unlock Feed
*2	120 (PK/LG)	Doors Unlock Feed
**2	118 (PK/OG)	Doors Lock Feed
*3	54 (LG/YE)	Power (Hot at All Times)
**3	517 (BK/WH)	Power (Hot at All Times)
*4	119 (PK/YE)	Doors Lock Feed
**4	117 (PK/BK)	Doors Unlock Feed
*5	–	NOT USED
**5	123 (RD)	Door Lock Input
6	226 (WH/BK)	Power Window Motor Up Feed
7	57 (BK)	Ground
8	314 (TN/LB)	Power Window Motor Up Feed
9	57 (BK)	Ground
10	170 (RD/LB)	Power (Acc or Run)
11	170 (RD/LB)	Power (Acc or Run)
12	57 (BK)	Ground
13	227 (YE)	Power Window Motor Down Feed
14	57 (BK)	Ground
15	313 (WH/YE)	Power Window Motor Down Feed

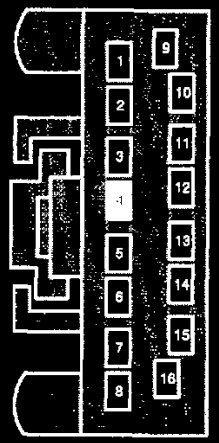
* WITH REMOTE/ KEYLESS ENTRY
** WITHOUT REMOTE/ KEYLESS ENTRY



C600

RH POWER DOOR LOCK/WINDOW SWITCH

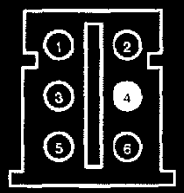
PIN	CIRCUIT	CIRCUIT FUNCTION
1	333 (YE/RD)	Power Window Motor Down Feed
2	314 (TN/LB)	Up Power Window Motor Up Feed
3	170 (RD/LB)	Power (Acc or Run)
4	313 (WH/YE)	Power Window Motor Down Feed
5	334 (RD/YE)	Power Window Motor Down Feed
*6	–	NOT USED
**6	57 (BK)	Ground
*7	120 (PK/LG)	Doors Lock Feed
**7	124 (BN)	Door Unlock Feed
*8	54 (LG/YE)	Power (Hot at All Times)
**8	517 (BK/WH)	Power (Hot at All Times)
*9	119 (PK/YE)	Doors Lock Feed
**9	123 (RD)	Doors Lock Feed
*10	–	NOT USED
**10	57 (BK)	Ground



C213

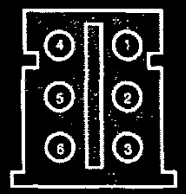
RADIO

PIN	CIRCUIT	CIRCUIT FUNCTION
1	19 (LB/RD)	Illumination
2	57 (BK)	Ground
3	1000 (RD/BK)	Noise Reduction
4	–	NOT USED
5	802 (OG/RD)	RH Rear Speaker/Mid
6	803 (BN/PK)	RH Rear Speaker/Mid
7	805 (WH/LG)	Right Front Door Speaker
8	811 (DG/OG)	Right Front Door Speaker
9	729 (RD/WH)	Memory Power
10	137 (YE/BK)	Power
11	694 (BK/LG)	Ground
12	800 (YE/LB)	LH Rear Speaker/Mid
13	801 (TN/YE)	LH Rear Speaker/Mid
14	804 (OG/LG)	Left Front Door Speaker
15	813 (LB/WH)	Left Front Door Speaker
16	694 (BK/LG)	Ground



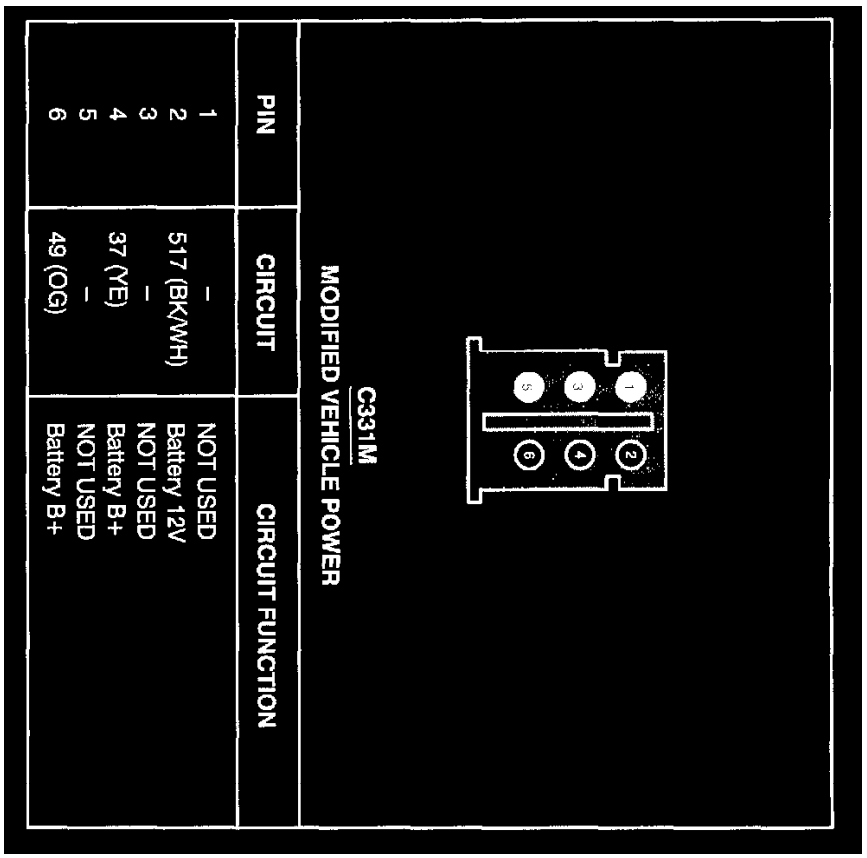
C244
ELECTRONIC BRAKE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	43 (DB)	Trailer Adapter (Class II)
2	57 (BK)	Ground
3	511 (LG)	Brake Pedal Position (BPP) Switch
4	–	NOT USED
5	22 (LB/BK)	Power (Hot at All Times)
6	14 (BN)	Power (Hot in Park and Head)



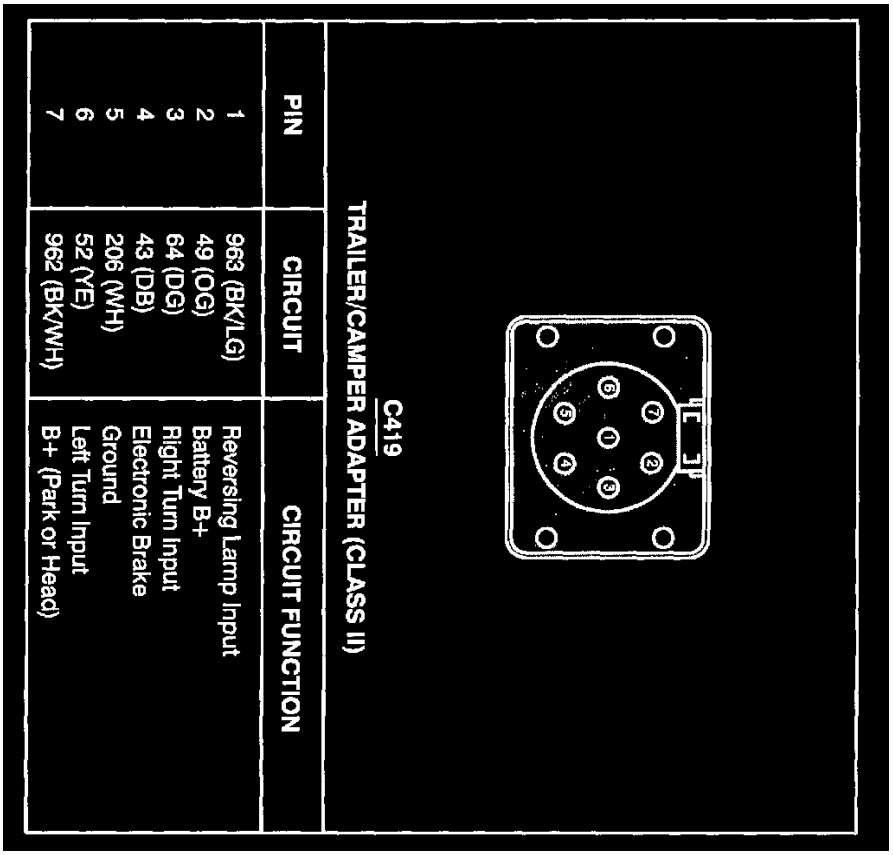
C233
MODIFIED VEHICLE POWER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	37 (YE)	Battery +
2	868 (GY/RD)	Emergency Release Levers
3	49 (OG)	Trailer Battery Charge
4	867 (DB)	Left Door Open-Driver
5	2 (WH/LB)	Right Turn Signal
6	3 (LG/WH)	Left Turn Signal



C331M
MODIFIED VEHICLE POWER

PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	517 (BK/WH)	Battery 12V
3	–	NOT USED
4	37 (YE)	Battery B+
5	–	NOT USED
6	49 (OG)	Battery B+



C419
TRAILER/CAMPER ADAPTER (CLASS II)

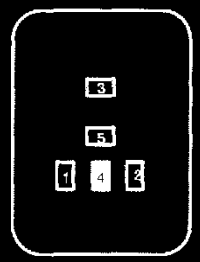
PIN	CIRCUIT	CIRCUIT FUNCTION
1	963 (BK/LG)	Reversing Lamp Input
2	49 (OG)	Battery B+
3	64 (DG)	Right Turn Input
4	43 (DB)	Electronic Brake
5	206 (WH)	Ground
6	52 (YE)	Left Turn Input
7	962 (BK/WH)	B+ (Park or Head)

TRAILER REVERSING LAMP RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
1	140 (BK/PK)	Reverse Input
2	57 (BK)	Ground
3	963 (BK/LG)	Output
4	–	NOT USED
5	37 (YE)	Battery B+

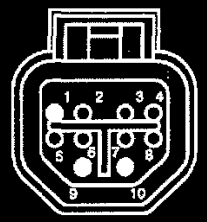
TRAILER BATTERY CHARGE RELAY

PIN	CIRCUIT	CIRCUIT FUNCTION
30	37 (YE)	Battery B+
85	57 (BK)	Ground
86	296 (WH/VT)	Ignition B+ (Acc or Run)
87	49 (OG)	Output
87A	–	NOT USED



TRAILER RUNNING LAMP RELAY

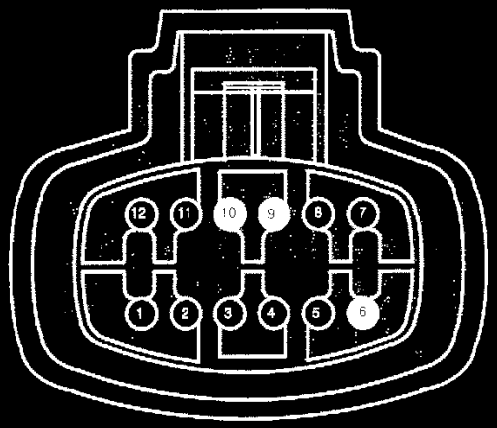
PIN	CIRCUIT	CIRCUIT FUNCTION
1	14 (BN)	Battery B+ (Park or Head)
2	57 (BK)	Ground
3	962 (BN/WH)	Output
4	–	NOT USED
5	37 (YE)	Battery B+



C110
4R70W TRANSMISSION

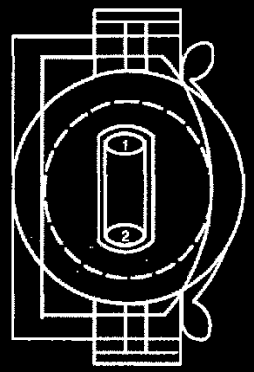
PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	359 (GY/RD)	Signal Return
3	480 (VT/YE)	Torque Converter Clutch (TCC) Solenoid
4	361 (RD)	Vehicle Power
5	923 (OG/BK)	Transmission Fluid Temperature (TFT) Input
6	925 (WH/YE)	Electronic Pressure Control (EPC) Solenoid
7	237 (OG/YE)	Shift Solenoid A
8	315 (VT/OG)	Shift Solenoid B
9	–	NOT USED
10	–	NOT USED

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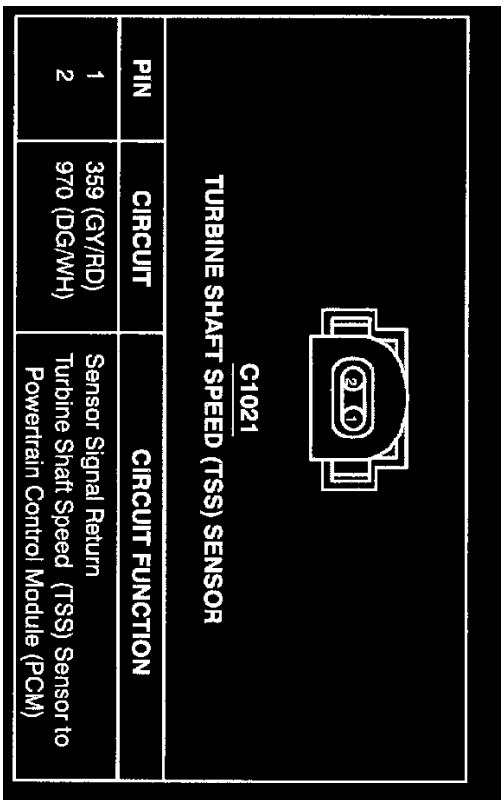
C114
4R100 TRANSMISSION

PIN	CIRCUIT	CIRCUIT FUNCTION
1	361 (RD)	Power Feed From PCM Power Relay
2	315 (VT/OG)	Shift Solenoid #2
3	237 (OG/YE)	Shift Solenoid #1
4	480 (VT/YE)	Torque Converter Clutch (TCC) Solenoid
5	924 (BN/OG)	Coast Clutch Solenoid
6	–	NOT USED
7	923 (OG/BK)	Transmission Fluid Temperature (TFT) Sensor
8	359 (GY/RD)	Sensor Signal Return
9	–	NOT USED
10	–	NOT USED
11	925 (WH/YE)	Electronic Pressure Control (EPC)
12	361 (RD)	Power Feed From PCM Power Relay



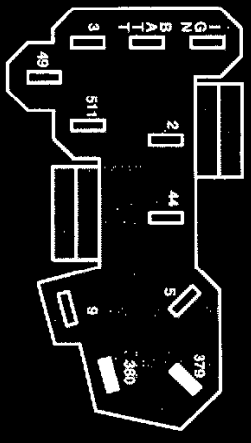
C109
OUTPUT SHAFT SPEED (OSS) SENSOR

PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
1	359 (GY/RD)	Signal Return
2	970 (BK/WH)	From Powertrain Control Module (PCM)



C1021
TURBINE SHAFT SPEED (TSS) SENSOR

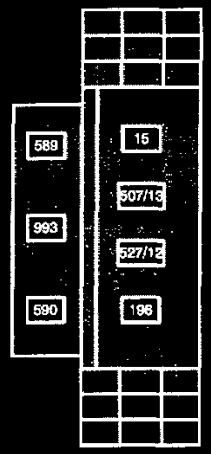
PIN	CIRCUIT	CIRCUIT FUNCTION
1	359 (GY/RD)	Sensor Signal Return
2	970 (DG/WH)	Turbine Shaft Speed (TSS) Sensor to Powertrain Control Module (PCM)



C250
MULTIFUNCTION SWITCH

PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
BATT	10 (LG/RD)	Vehicle Power (Hot at All Times)
2	2 (WH/LB)	Right Turn Indicator and Lamps
3	3 (LG/WH)	Left Turn Indicator and Lamps
5	5 (OG/LB)	RH Turn/Stop Indicator Lamp
9	9 (LG/OG)	LH Turn/Stop Indicator Lamp
44	44 (LB)	Electronic Flasher Output
49	385 (WH/RD)	Electronic Flasher Input
298	298 (VT/OG)	Vehicle Power (Hot in Run)
379	—	NOT USED
380	—	NOT USED
511	810 (RD/LG)	Brake Pedal Position Switch Input

Diagram 90-4



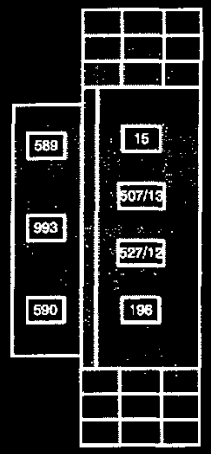
C251
MULTIFUNCTION SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
589	589 (OG)	Wiper Module Speed Select
15	15 (RD/YE)	Dimmer Switch Feed
507/13	13 (RD/BK)	LOW Beam Output
993	993 (BN/WH)	Wiper Module - Common
527/12	12 (LG/BK)	HIGH Beam Output
590	590 (DB/WH)	Wiper Module - Interval Delay Set
196	196 (DB/OG)	Power (Hot at All Times)



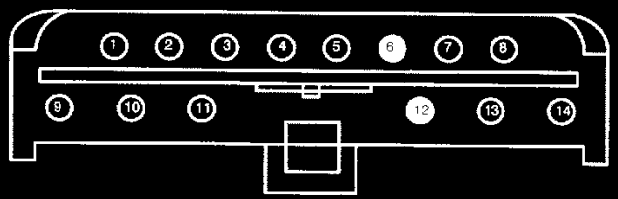
C108
VEHICLE SPEED SENSOR (VSS)

PIN	CIRCUIT	CIRCUIT FUNCTION
1	676 (PK/OG)	Signal Return
2	679 (GY/BK)	Vehicle Speed Sensor (VSS) to Powertrain Control Module (PCM)



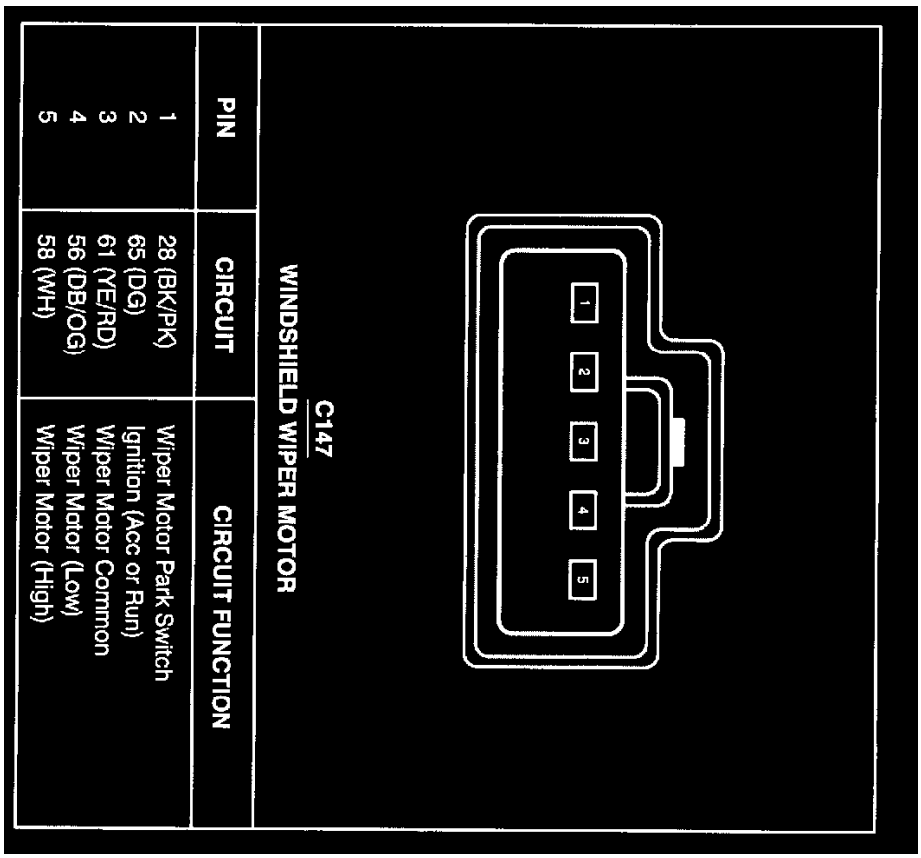
C251
MULTIFUNCTION SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
589	589 (OG)	Wiper Module Speed Select
15	15 (RD/YE)	Dimmer Switch Feed
507/13	13 (RD/BK)	LOW Beam Output
993	993 (BN/WH)	Wiper Module - Common
527/12	12 (LG/BK)	HIGH Beam Output
590	590 (DB/WH)	Wiper Module - Interval Delay Set
196	196 (DB/OG)	Power (Hot at All Times)



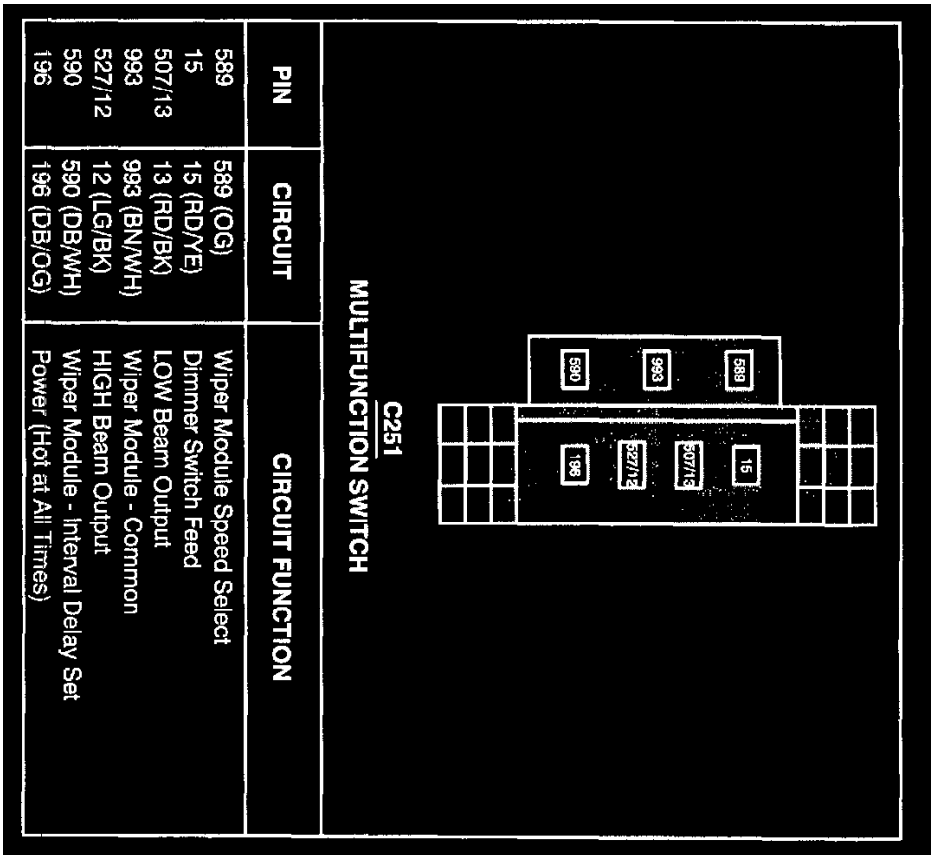
C216
WIPER CONTROL MODULE

PIN	CIRCUIT	CIRCUIT FUNCTION
1	589 (OG)	Multifunction Switch (Wiper Mode)
2	65 (DG)	Power (Hot in Acc or Run)
3	875 (BK/LB)	Ground
4	941 (BK/WH)	Windshield Washer Pump
5	875 (BK/LB)	Ground
6	–	NOT USED
7	993 (BN/WH)	Multifunction Switch (Common)
8	56 (DB/OG)	Wiper Motor - Low Speed
9	590 (DB/WH)	Multifunction Switch (Internal Control)
10	61 (YE/RD)	Wiper Motor - Common
11	65 (DG)	Power (Hot in Acc or Run)
12	–	NOT USED
13	28 (BK/PK)	Wiper Motor Park Switch
14	58 (WH)	Wiper Motor - High Speed



C147
WINDSHIELD WIPER MOTOR

PIN	CIRCUIT	CIRCUIT FUNCTION
1	28 (BK/PK)	Wiper Motor Park Switch
2	65 (DG)	Ignition (Acc or Run)
3	61 (YE/RD)	Wiper Motor Common
4	56 (DB/OG)	Wiper Motor (Low)
5	58 (WH)	Wiper Motor (High)



C251
MULTIFUNCTION SWITCH

PIN	CIRCUIT	CIRCUIT FUNCTION
589	589 (OG)	Wiper Module Speed Select
15	15 (RD/YE)	Dimmer Switch Feed
507/13	13 (RD/BK)	LOW Beam Output
993	993 (BN/WH)	Wiper Module - Common
527/12	12 (LG/BK)	HIGH Beam Output
590	590 (DB/WH)	Wiper Module - Interval Delay Set
196	196 (DB/OG)	Power (Hot at All Times)

Ground Diagrams (By Component Name)

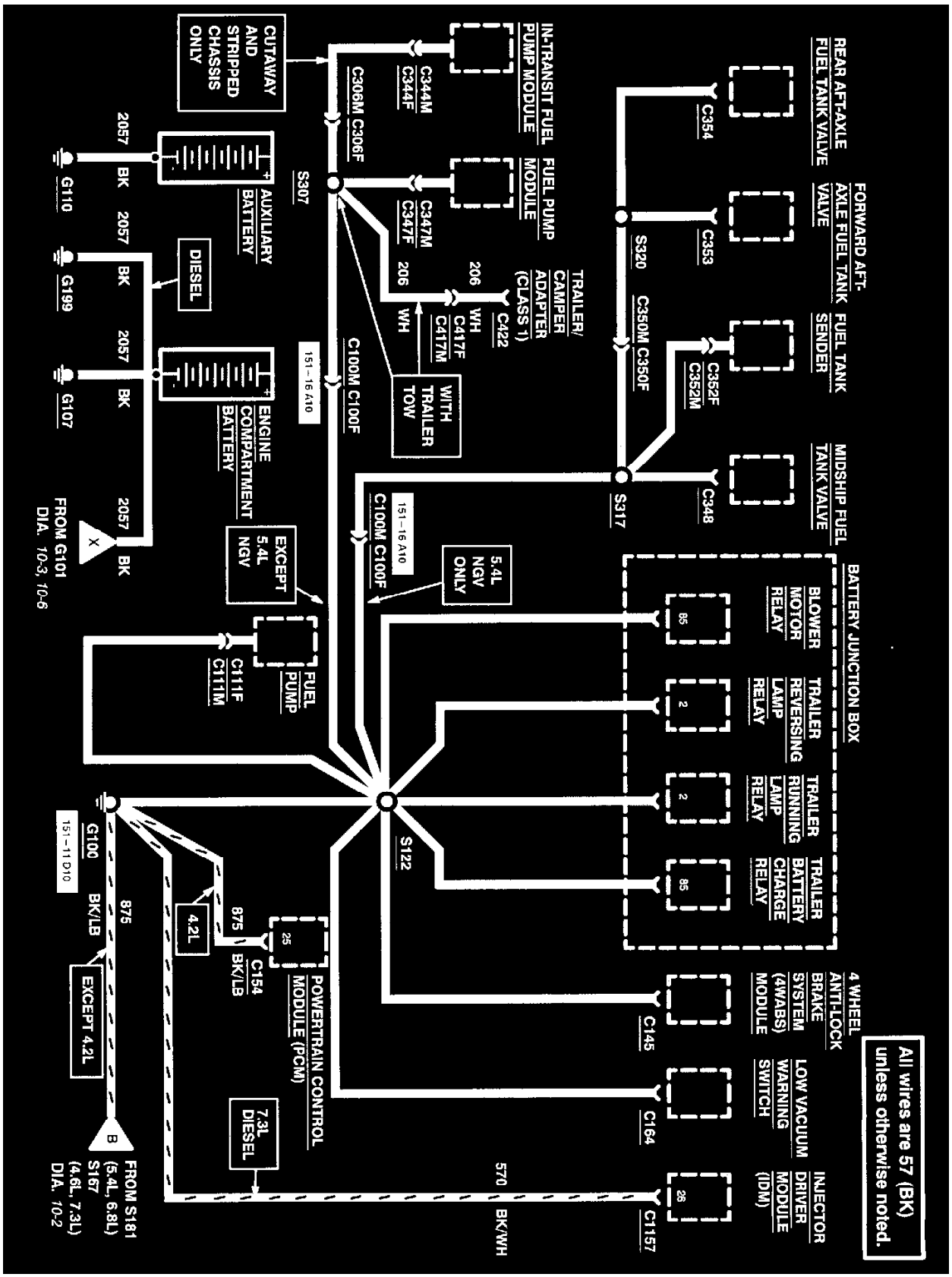

All wires are 57 (BK) unless otherwise noted.
REAR AFT-AXLE FUEL TANK VALVE
FORWARD AFT-AXLE FUEL TANK VALVE
FUEL TANK SENDER
MIDSHIP FUEL TANK VALVE
BATTERY JUNCTION BOX
BLOWER MOTOR RELAY
TRAILER REVERSING LAMP RELAY
TRAILER RUNNING LAMP RELAY
TRAILER BATTERY CHARGE RELAY
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
LOW VACUUM WARNING SWITCH
INJECTOR DRIVER MODULE (IDM)
POWERTRAIN CONTROL MODULE (PCM)
FUEL PUMP MODULE
IN-TRANSIT FUEL PUMP MODULE
TRAILER/ CAMPER ADAPTER (CLASS 1)
CUTAWAY AND STRIPPED CHASSIS ONLY
AUXILIARY BATTERY
ENGINE COMPARTMENT BATTERY
DIESEL
WITH TRAILER TOW
EXCEPT 5.4L NGV
5.4L NGV ONLY
FUEL PUMP
EXCEPT 4.2L
4.2L
7.3L DIESEL
FROM G101
DIA. 10-3, 10-6
FROM S181
(5.4L, 6.8L)
S167
(4.6L, 7.3L)
DIA. 10-2
C354
C353
C352F
C352M
C350M
C350F
C348
S320
S317
C344M
C344F
C347M
C347F
C422
C417F
C417M
C306M
C306F
C100M
C100F
S307
C111F
C111M
C154
C145
C164
C1157
S122
G110
G199
G107
G100
2057
BK
206
WH
570
BK/WH
875
BK/LB
151-16 A10
151-11 D10

Diagram 10-1

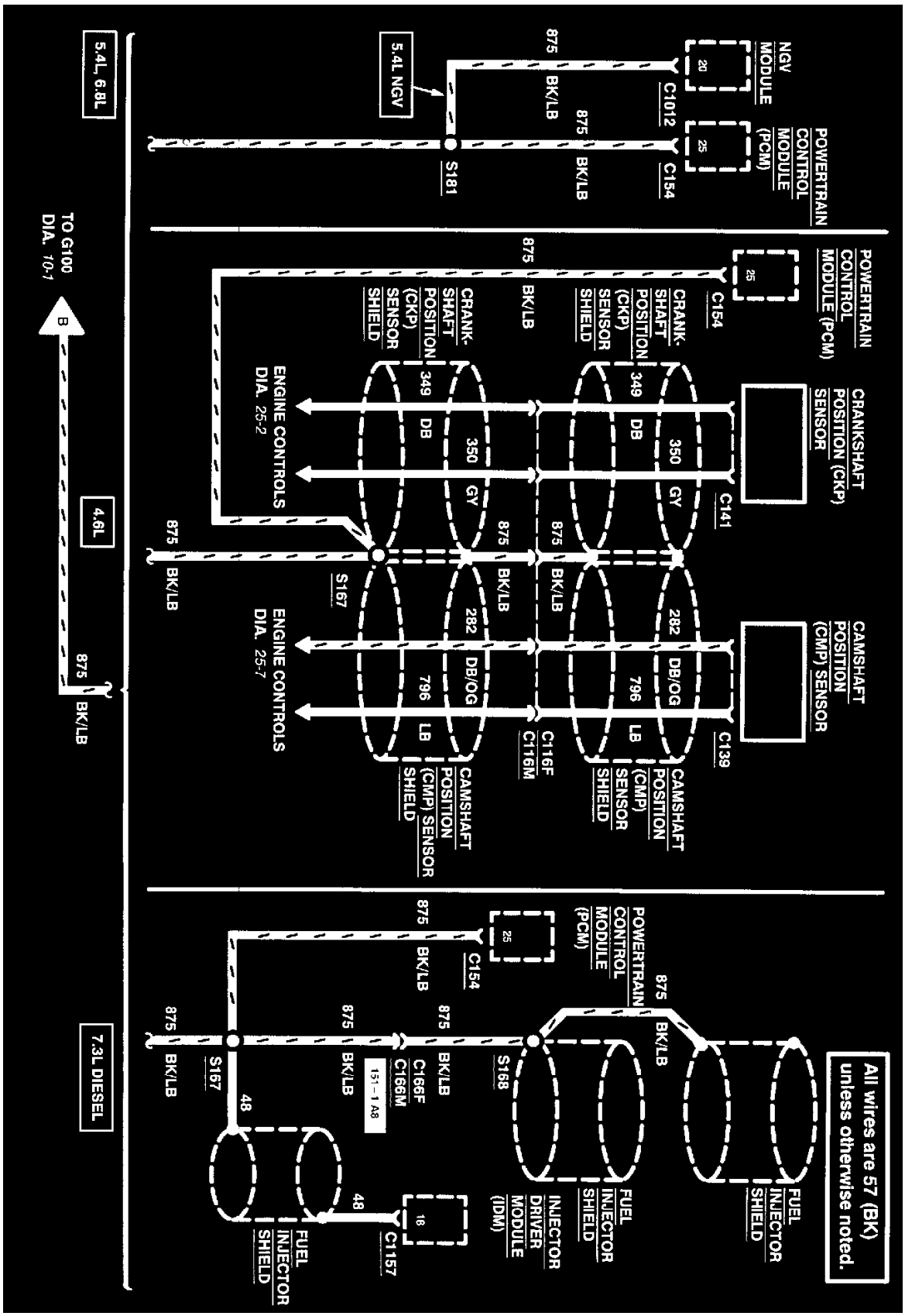

5.4L, 6.8L
4.6L
7.3L DIESEL
5.4L NGV
TO G100
DIA. 10-1
B
NGV MODULE
20
25
C1012
C154
875
BK/LB
S181
POWERTRAIN CONTROL MODULE (PCM)
CRANKSHAFT POSITION (CKP) SENSOR
C141
CRANK-SHAFT POSITION (CKP) SENSOR SHIELD
349
DB
350
GY
ENGINE CONTROLS DIA. 25-2
S167
CAMSHAFT POSITION (CMP) SENSOR
C139
C116F
C116M
282
DB/OG
796
LB
CAMSHAFT POSITION (CMP) SENSOR SHIELD
ENGINE CONTROLS DIA. 25-7
All wires are 57 (BK) unless otherwise noted.
S168
FUEL INJECTOR SHIELD
INJECTOR DRIVER MODULE (IDM)
C166F
C166M
151-1 A8
C157
16
48

Diagram 10-2

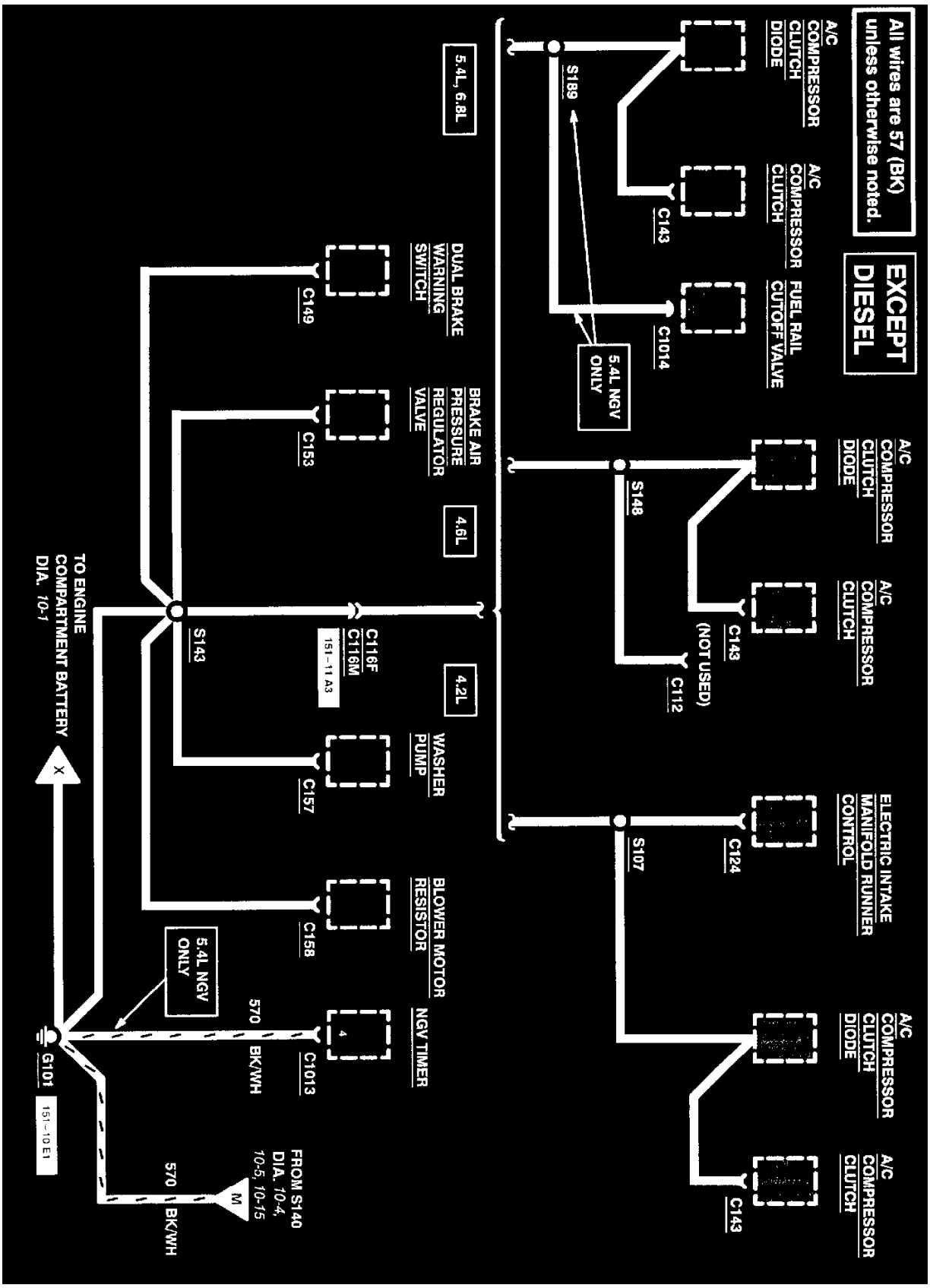

All wires are 57 (BK) unless otherwise noted.
EXCEPT DIESEL
A/C COMPRESSOR CLUTCH DIODE
A/C COMPRESSOR CLUTCH
FUEL RAIL CUTOFF VALVE
C143
C1014
S189
5.4L NGV ONLY
A/C COMPRESSOR CLUTCH DIODE
A/C COMPRESSOR CLUTCH
C143
(NOT USED)
C112
S148
ELECTRIC INTAKE MANIFOLD RUNNER CONTROL
C124
S107
A/C COMPRESSOR CLUTCH DIODE
A/C COMPRESSOR CLUTCH
C143
5.4L, 6.8L
DUAL BRAKE WARNING SWITCH
C149
BRAKE AIR PRESSURE REGULATOR VALVE
C153
4.6L
C116F
C116M
151-11 A3
S143
4.2L
WASHER PUMP
C157
BLOWER MOTOR RESISTOR
C158
NGV TIMER
4
C1013
570
BK/WH
5.4L NGV ONLY
TO ENGINE COMPARTMENT BATTERY DIA. 10-1
G101
151-10 E1
FROM S140 DIA. 10-4, 10-5, 10-15
M
570
BK/WH

Diagram 10-3

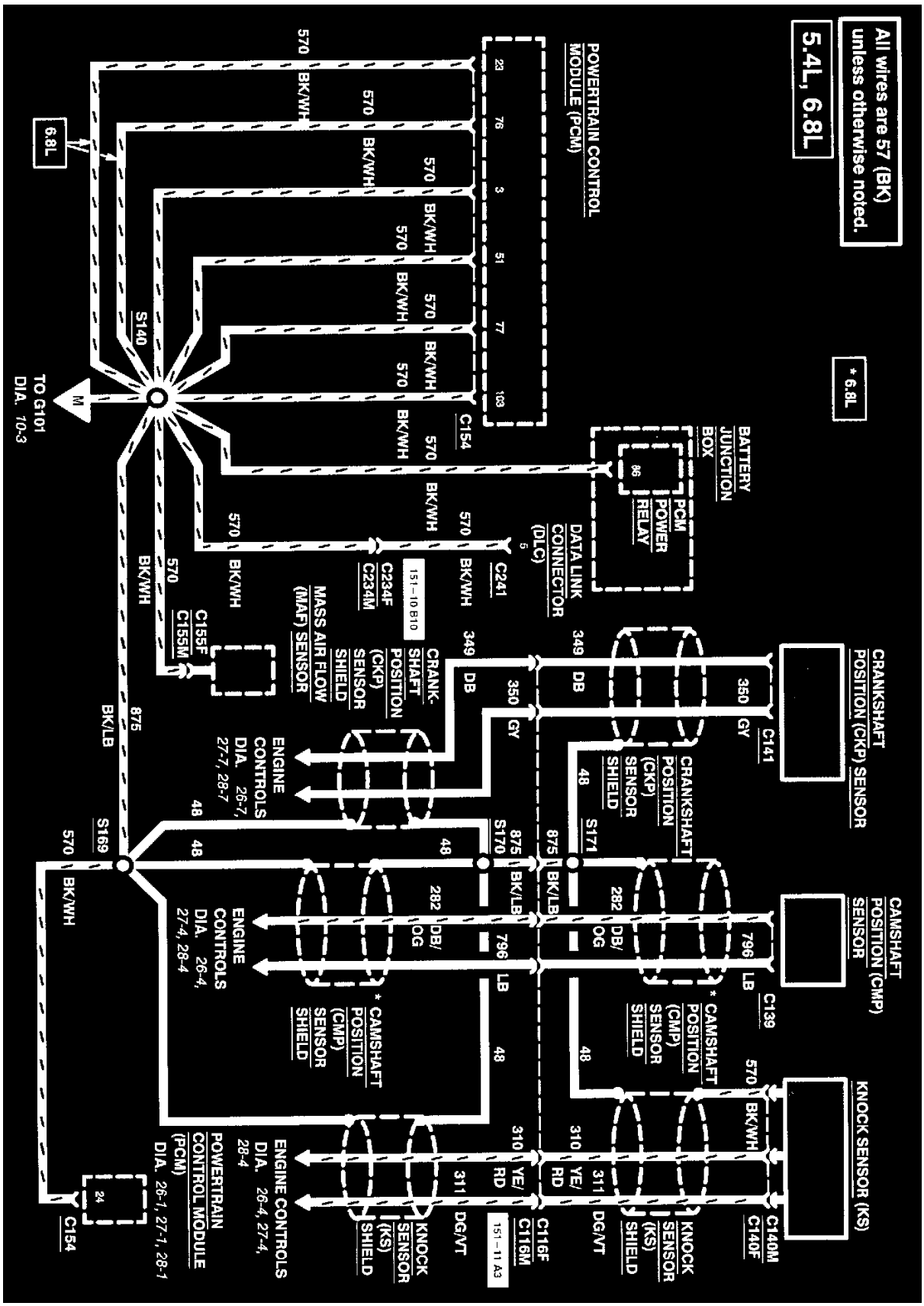

All wires are 57 (BK) unless otherwise noted.
5.4L, 6.8L
* 6.8L
6.8L
TO G101 DIA. 70-3
S140
S169
S170
S171
BATTERY JUNCTION BOX
PCM POWER RELAY
POWERTRAIN CONTROL MODULE (PCM)
C154
DATA LINK CONNECTOR (DLC)
C241
C234F C234M
MASS AIR FLOW (MAF) SENSOR
C155F C155M
CRANK-SHAFT POSITION (CKP) SENSOR SHIELD
CRANKSHAFT POSITION (CKP) SENSOR
C141
CRANKSHAFT POSITION (CKP) SENSOR SHIELD
CAMSHAFT POSITION (CMP) SENSOR
C139
* CAMSHAFT POSITION (CMP) SENSOR SHIELD
KNOCK SENSOR (KS)
C140M C140F
KNOCK SENSOR (KS) SHIELD
C116F C116M
ENGINE CONTROLS DIA. 26-7, 27-7, 28-7
ENGINE CONTROLS DIA. 26-4, 27-4, 28-4
ENGINE CONTROLS DIA. 26-4, 27-4, 28-4
POWERTRAIN CONTROL MODULE (PCM) DIA. 26-1, 27-1, 28-1
151-10 B10
151-11 A3

Diagram 10-5

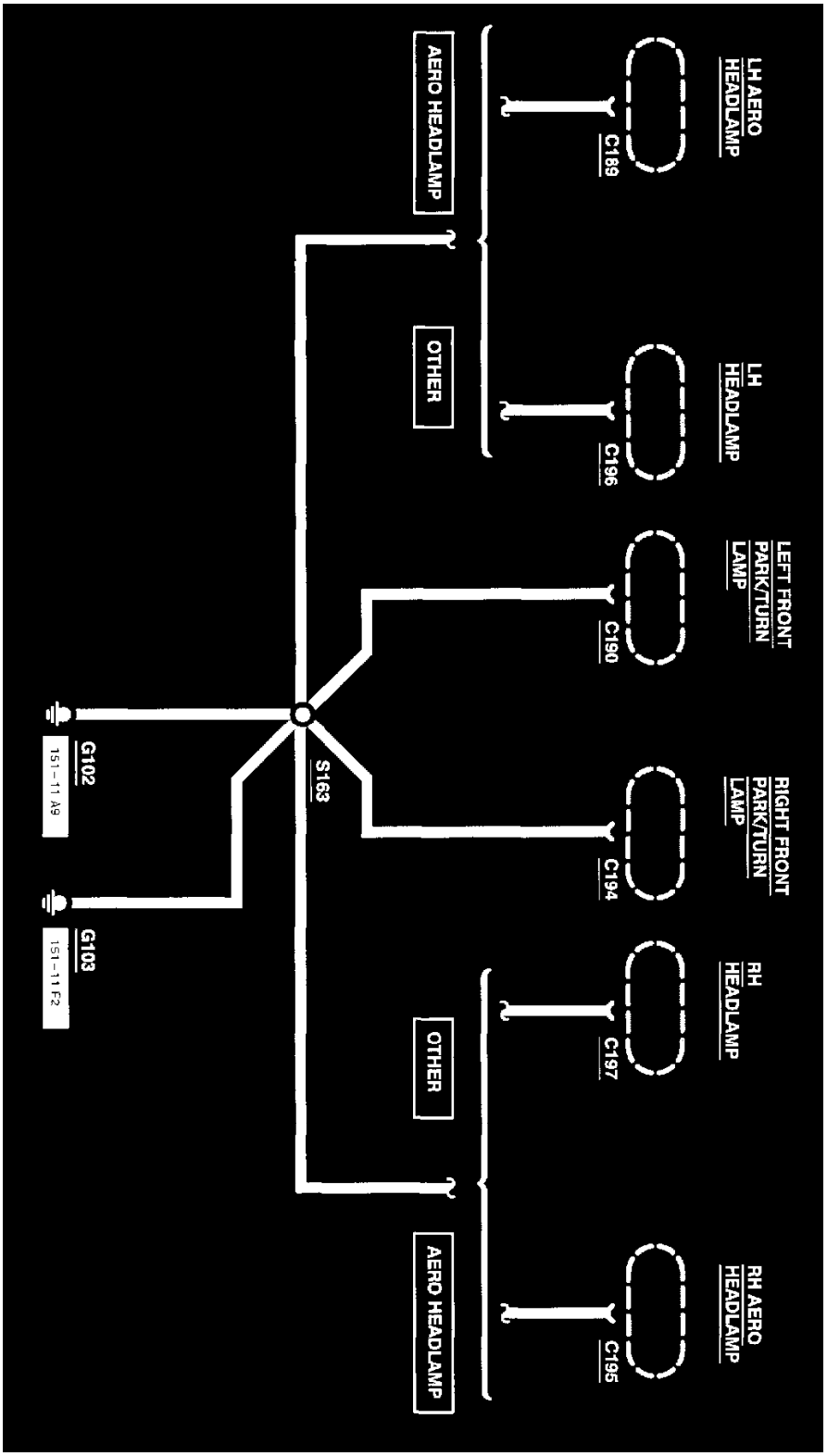

LH AERO HEADLAMP
C189
AERO HEADLAMP
LH HEADLAMP
C196
OTHER
LEFT FRONT PARK/TURN LAMP
C190
RIGHT FRONT PARK/TURN LAMP
C194
RH HEADLAMP
C197
OTHER
RH AERO HEADLAMP
C195
AERO HEADLAMP
S163
G102
151-11 A9
G103
151-11 F2

Diagram 10-7

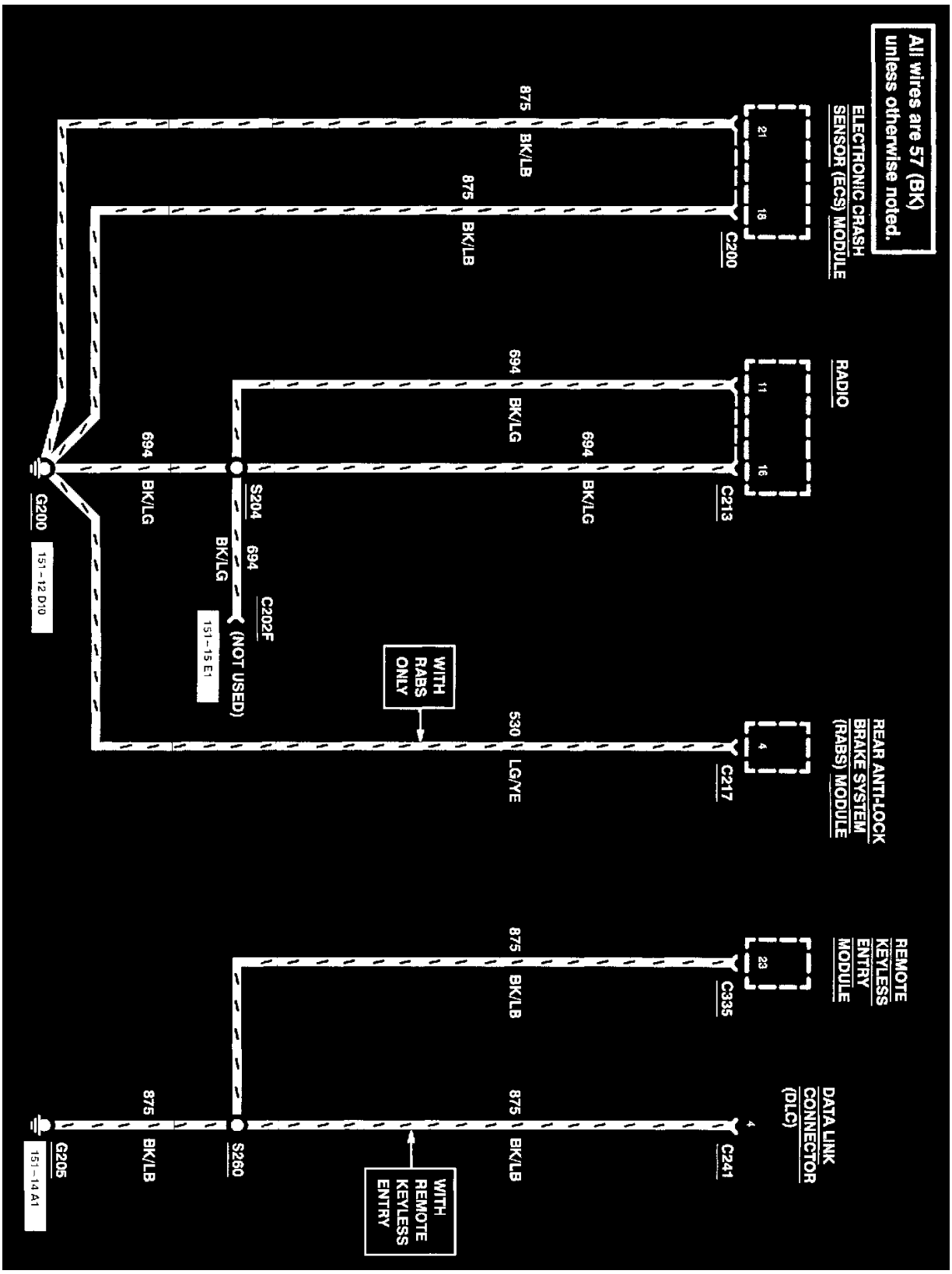

All wires are 57 (BK) unless otherwise noted.
ELECTRONIC CRASH SENSOR (ECS) MODULE
21
18
C200
875
BK/LB
875
BK/LB
RADIO
11
16
C213
694
BK/LG
694
BK/LG
694
BK/LG
G200
151 - 12 D10
S204
694
BK/LG
C202F
(NOT USED)
151 - 15 E1
WITH RABS ONLY
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
4
C217
530
LG/YE
REMOTE KEYLESS ENTRY MODULE
23
C335
875
BK/LB
DATA LINK CONNECTOR (DLC)
4
C241
875
BK/LB
WITH REMOTE KEYLESS ENTRY
S260
875
BK/LB
G205
151 - 14 A1

Diagram 10-8

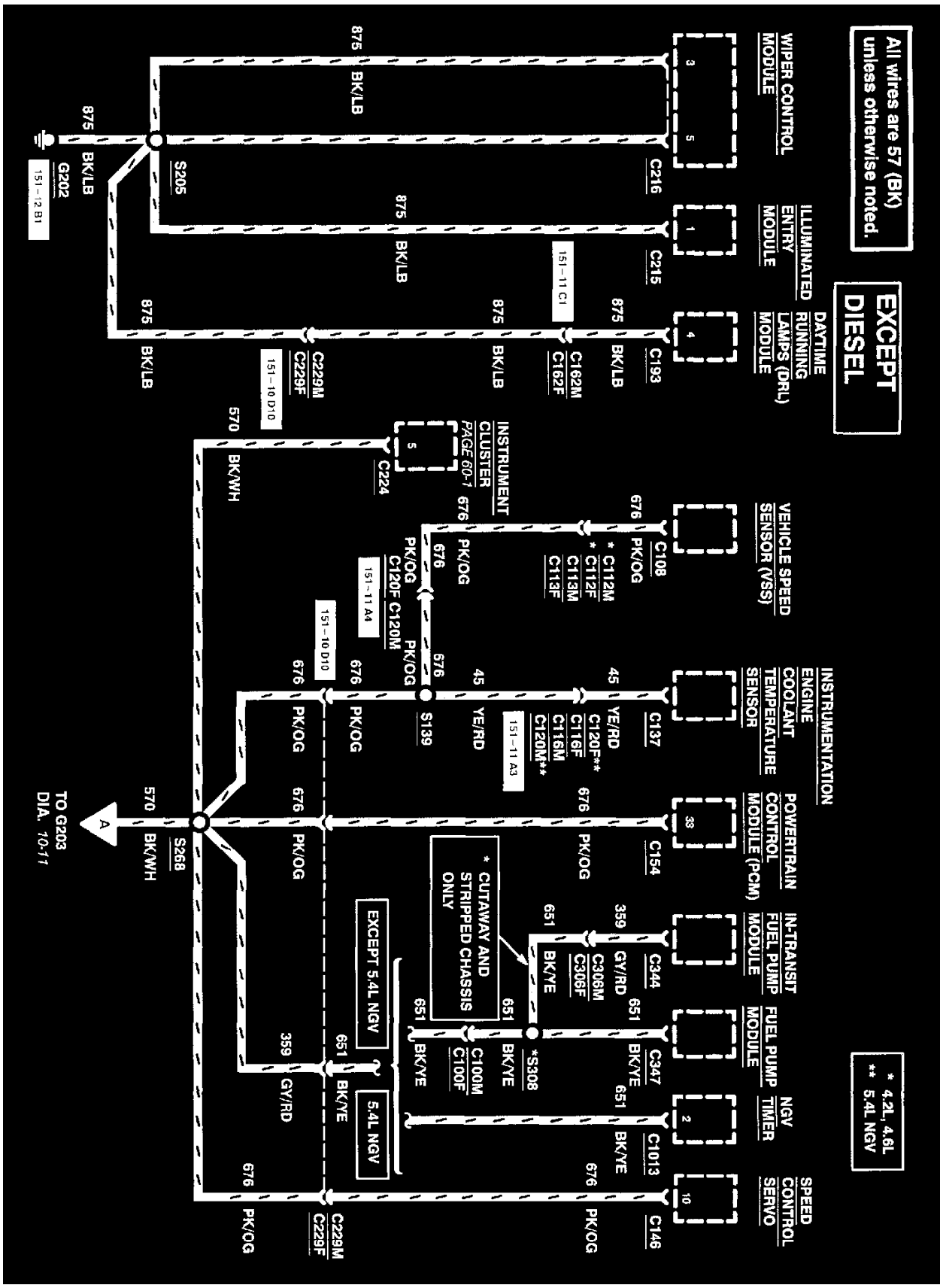

All wires are 57 (BK) unless otherwise noted.
EXCEPT DIESEL
* 4.2L, 4.6L
** 5.4L NGV
WIPER CONTROL MODULE
ILLUMINATED ENTRY MODULE
DAYTIME RUNNING LAMPS (DRL) MODULE
VEHICLE SPEED SENSOR (VSS)
INSTRUMENTATION
ENGINE COOLANT TEMPERATURE SENSOR
POWERTRAIN CONTROL MODULE (PCM)
IN-TRANSIT FUEL PUMP MODULE
FUEL PUMP MODULE
NGV TIMER
SPEED CONTROL SERVO
INSTRUMENT CLUSTER
PAGE 60-1
EXCEPT 5.4L NGV
5.4L NGV
* CUTAWAY AND STRIPPED CHASSIS ONLY
TO G203
DIA. 10-11
C216
C215
C193
C162M
C162F
C229M
C229F
C224
C108
C112M
C112F
C113M
C113F
C137
C120F**
C116F
C116M
C120M**
C154
C344
C306M
C306F
C347
C100M
C100F
C1013
C146
S205
G202
S268
S139
*S308
151-12 B1
151-11 C1
151-10 D10
151-11 A4
151-11 A3
875 BK/LB
570 BK/WH
676 PK/OG
45 YE/RD
359 GY/RD
651 BK/YE

Diagram 10-9

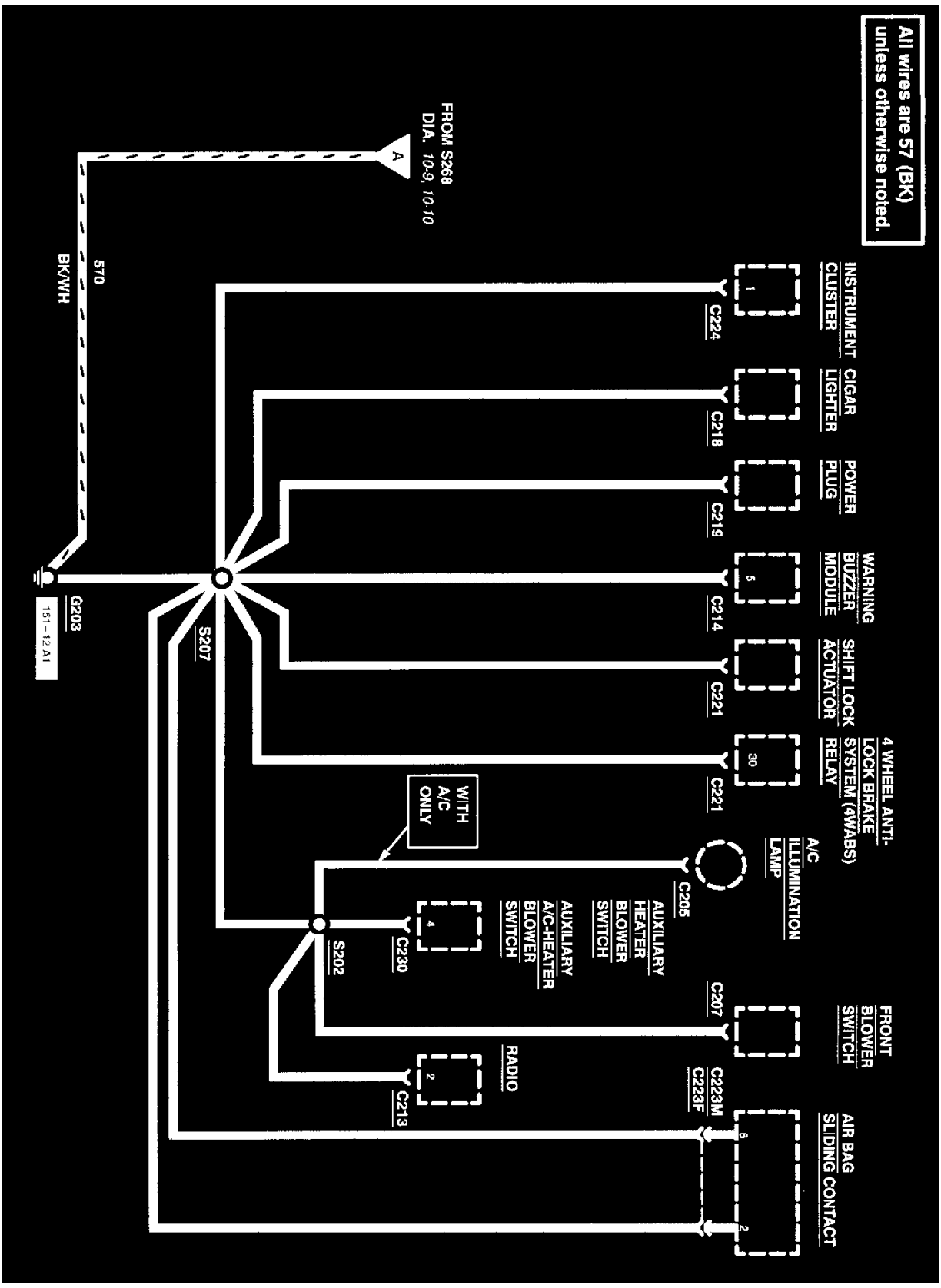


Diagram 10-11

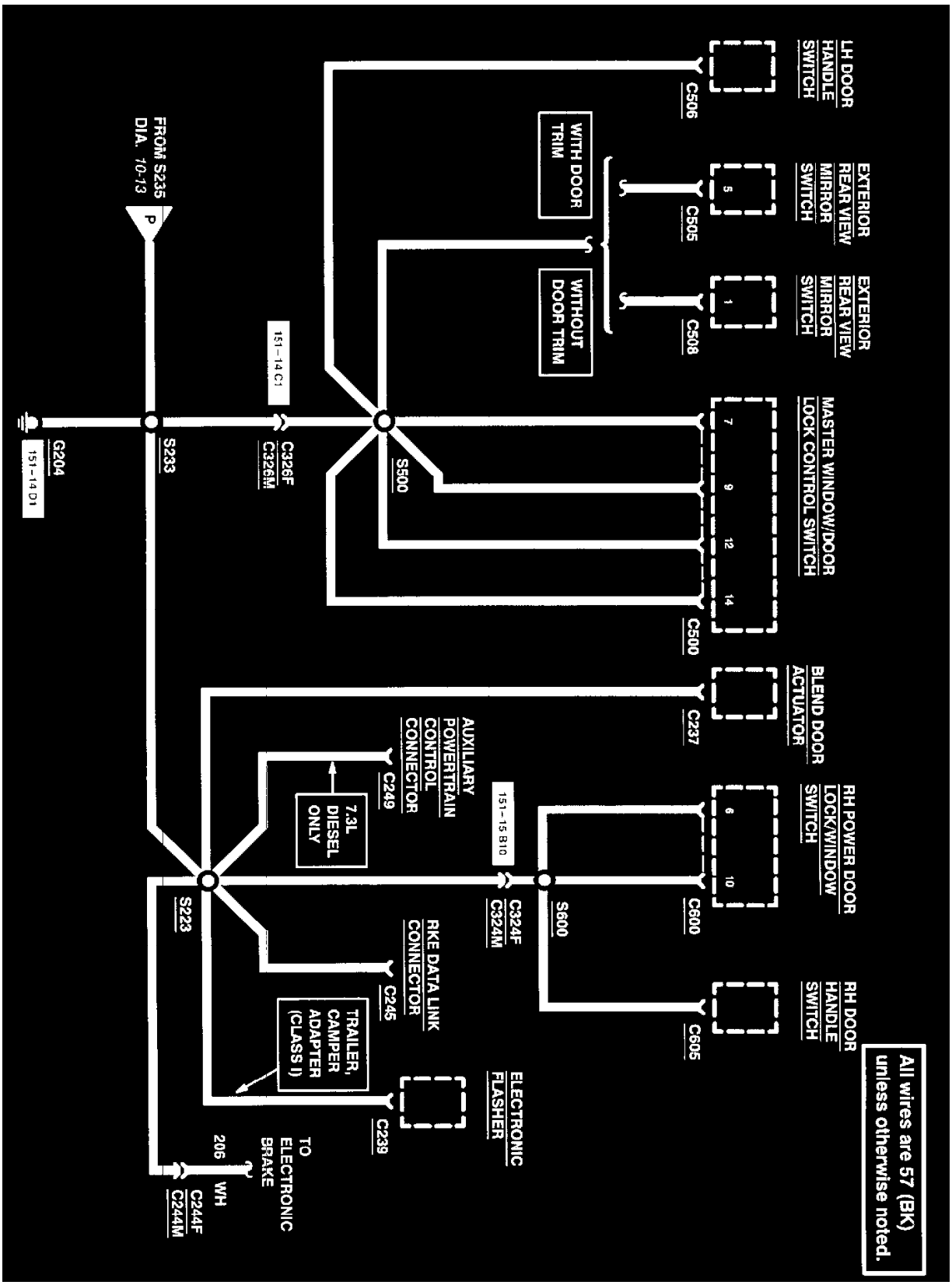


Diagram 10-12

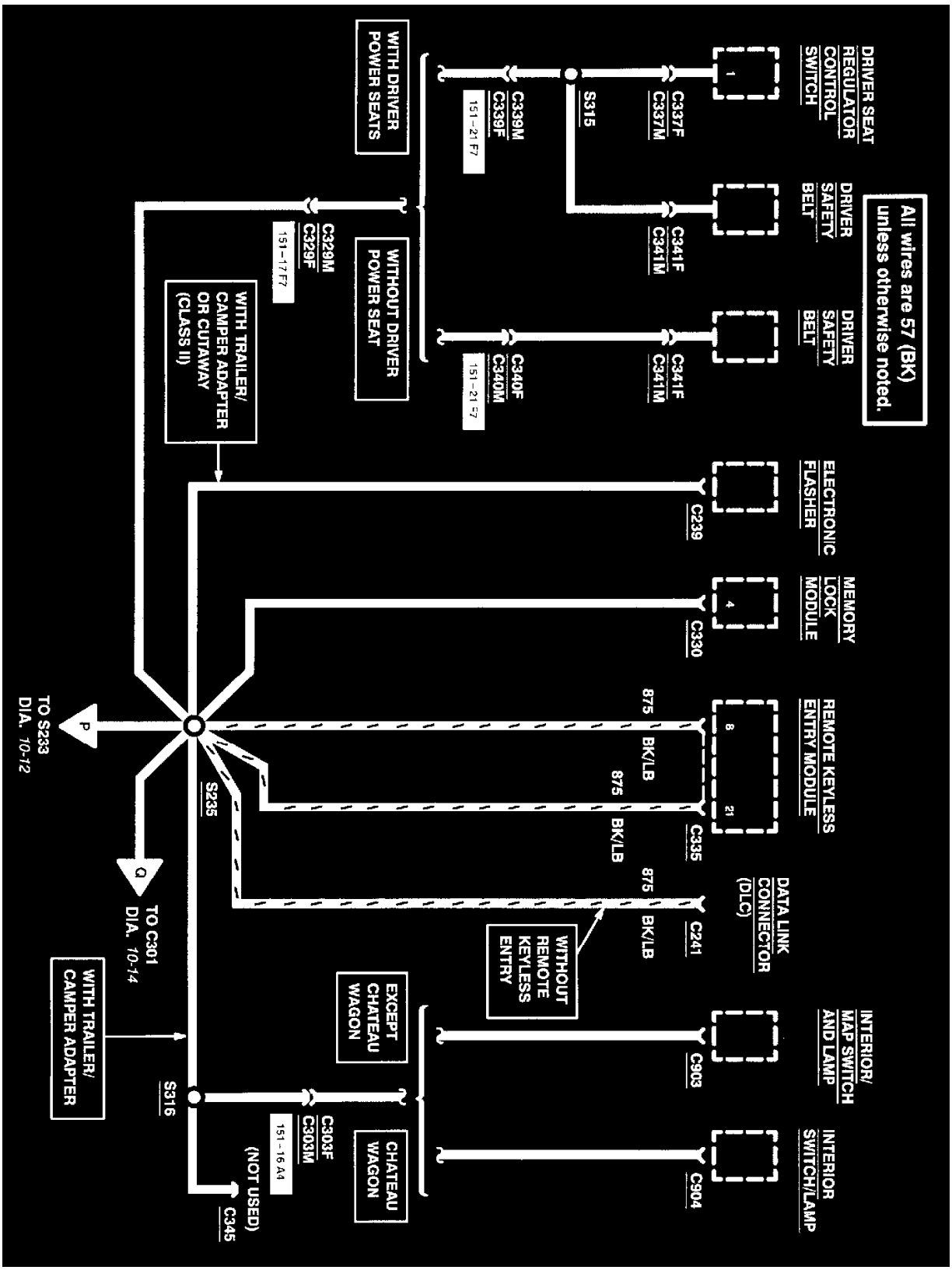


Diagram 10-13

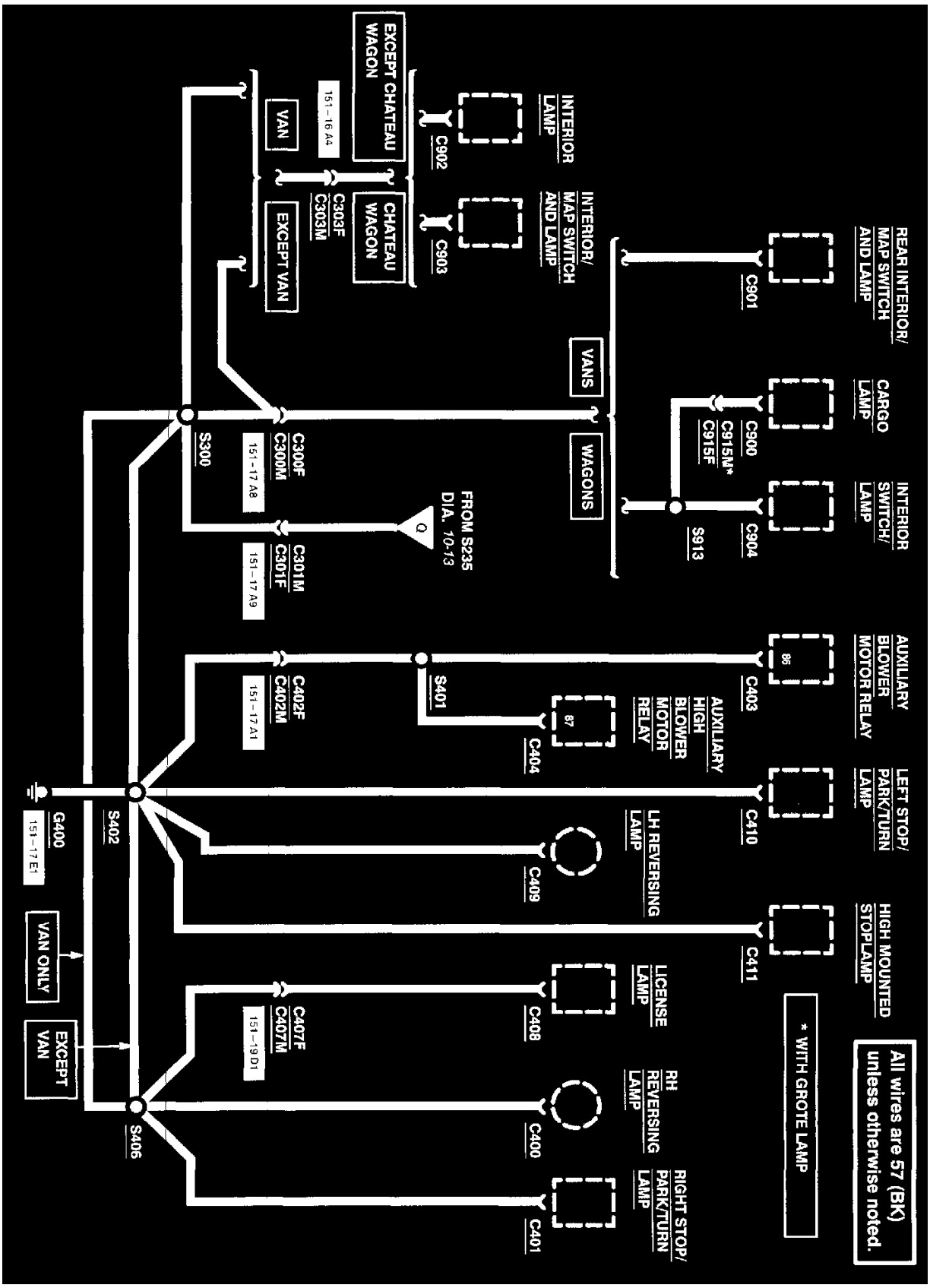


Diagram 10-14

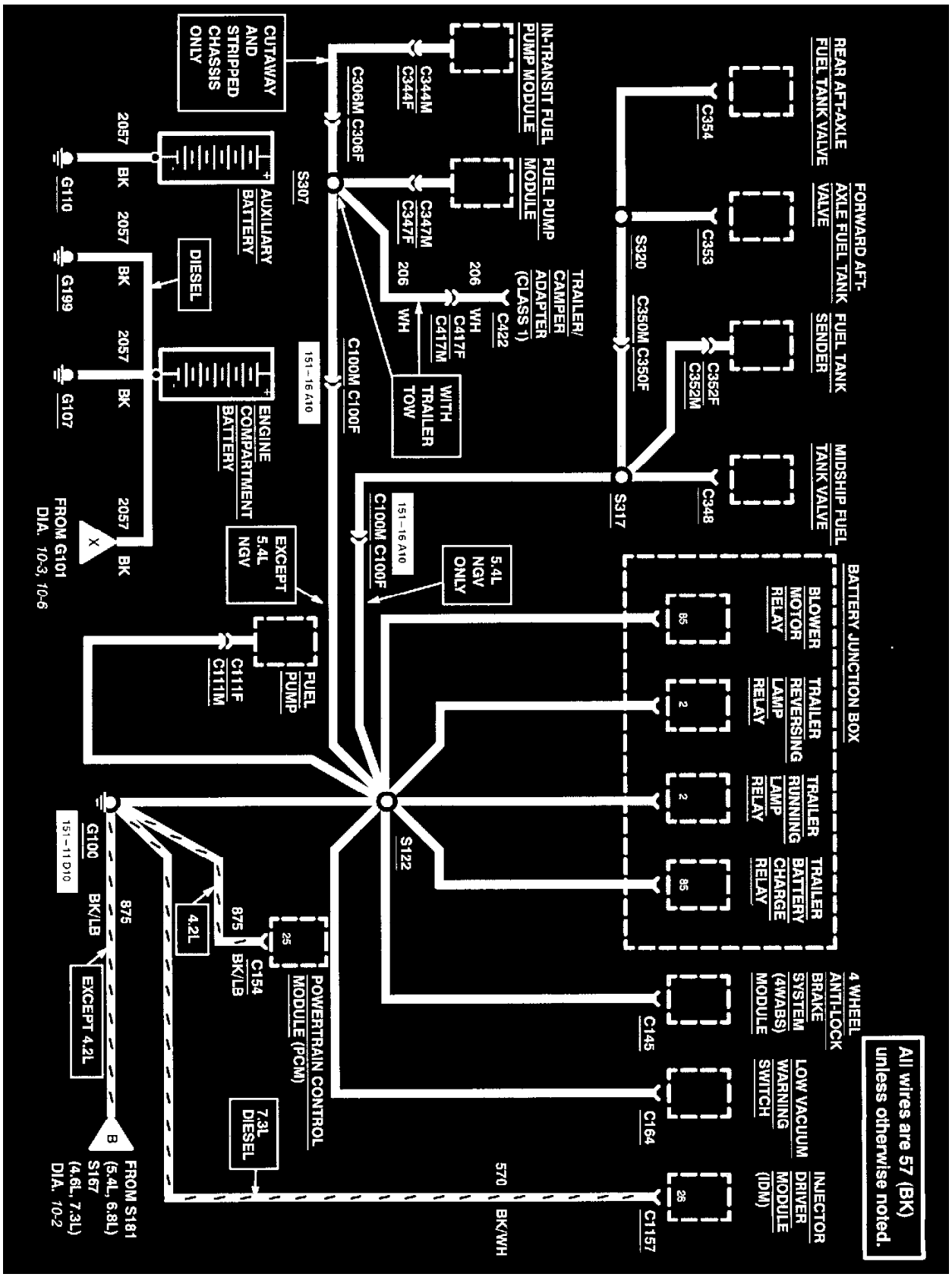

All wires are 57 (BK) unless otherwise noted.
REAR AFT-AXLE FUEL TANK VALVE
FORWARD AFT-AXLE FUEL TANK VALVE
FUEL TANK SENDER
MIDSHIP FUEL TANK VALVE
BATTERY JUNCTION BOX
BLOWER MOTOR RELAY
TRAILER REVERSING LAMP RELAY
TRAILER RUNNING LAMP RELAY
TRAILER BATTERY CHARGE RELAY
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
LOW VACUUM WARNING SWITCH
INJECTOR DRIVER MODULE (IDM)
POWERTRAIN CONTROL MODULE (PCM)
FUEL PUMP
FUEL PUMP MODULE
IN-TRANSIT FUEL PUMP MODULE
TRAILER/ CAMPER ADAPTER (CLASS 1)
CUTAWAY AND STRIPPED CHASSIS ONLY
AUXILIARY BATTERY
ENGINE COMPARTMENT BATTERY
DIESEL
WITH TRAILER TOW
EXCEPT 5.4L NGV
5.4L NGV ONLY
EXCEPT 4.2L
4.2L
7.3L DIESEL
C354
C353
C352F
C352M
C348
S320
C350M
C350F
S317
C344M
C344F
C347M
C347F
C422
C417F
C417M
C306M
C306F
S307
C100M
C100F
C111F
C111M
C145
C164
C1157
S122
C154
G110
G199
G107
G100
2057
BK
206
WH
875
BK/LB
570
BK/WH
151-16 A10
151-11 D10
FROM G101 DIA. 10-3, 10-6
FROM S181 (5.4L, 6.8L) S167 (4.6L, 7.3L) DIA. 10-2

Diagram 10-1

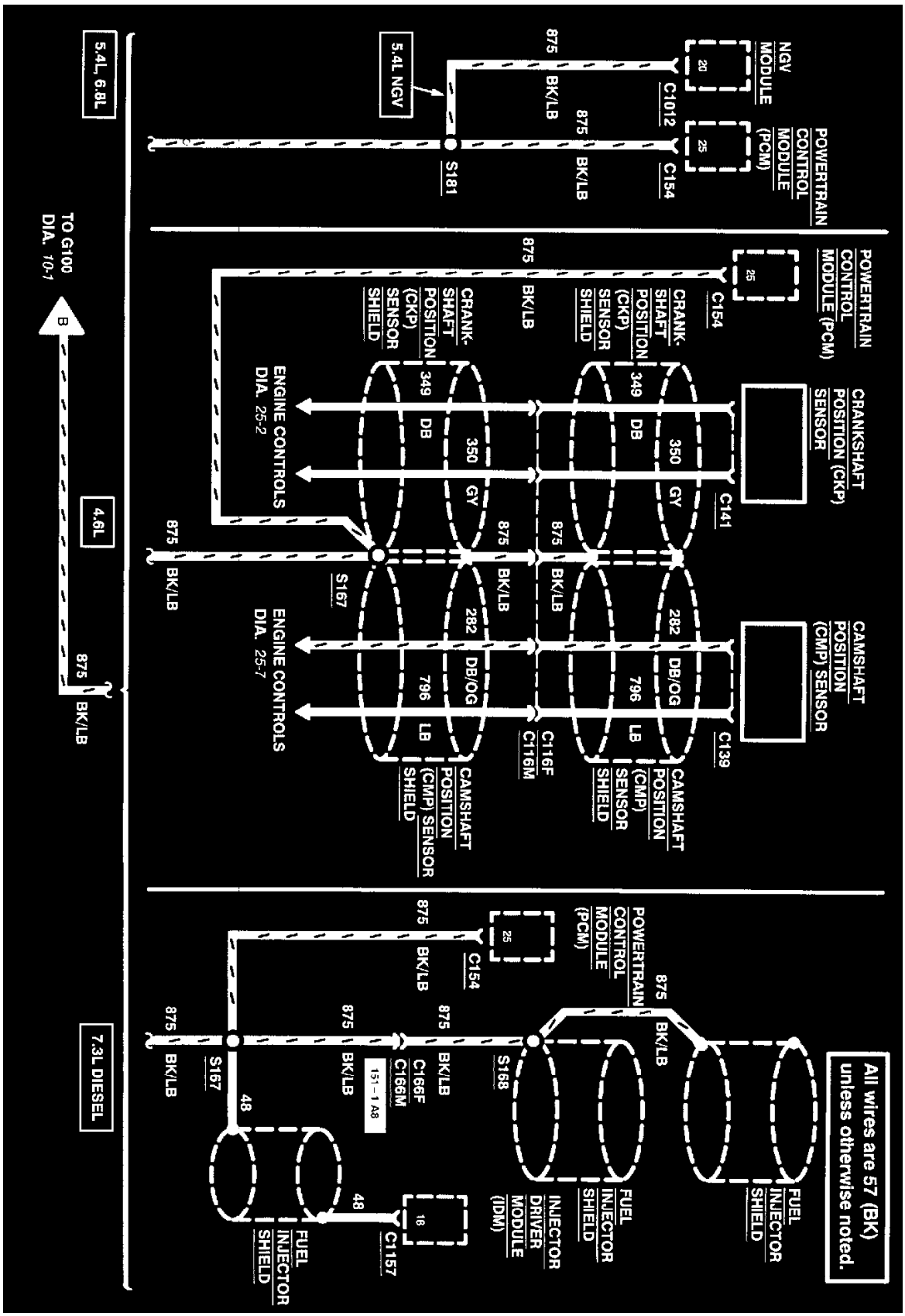

5.4L, 6.8L
4.6L
7.3L DIESEL
5.4L NGV
TO G100
DIA. 10-1
B
NGV MODULE (PCM)
POWERTRAIN CONTROL MODULE (PCM)
20
25
C1012
C154
S181
875
BK/LB
POWERTRAIN CONTROL MODULE (PCM)
CRANKSHAFT POSITION (CKP) SENSOR
CRANK-SHAFT POSITION (CKP) SENSOR SHIELD
C141
349
DB
350
GY
ENGINE CONTROLS DIA. 25-2
S167
CAMSHAFT POSITION (CMP) SENSOR
CAMSHAFT POSITION (CMP) SENSOR SHIELD
C139
C116F
C116M
282
DB/OG
796
LB
ENGINE CONTROLS DIA. 25-7
All wires are 57 (BK) unless otherwise noted.
FUEL INJECTOR SHIELD
INJECTOR DRIVER MODULE (IDM)
S168
C166F
C166M
151-1 A8
C157
16
48

Diagram 10-2

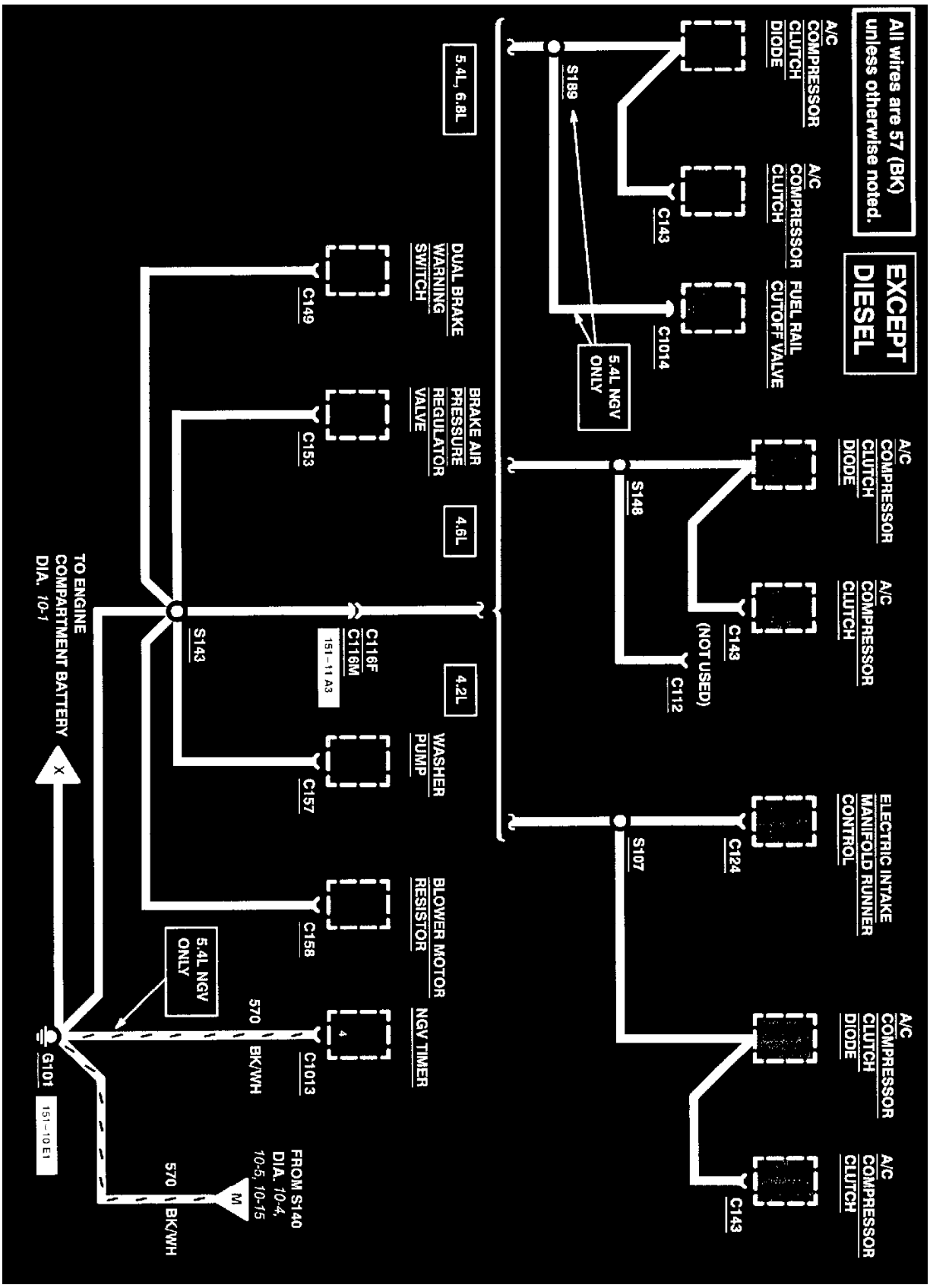

All wires are 57 (BK) unless otherwise noted.
EXCEPT DIESEL
A/C COMPRESSOR CLUTCH DIODE
A/C COMPRESSOR CLUTCH
FUEL RAIL CUTOFF VALVE
ELECTRIC INTAKE MANIFOLD RUNNER CONTROL
A/C COMPRESSOR CLUTCH DIODE
A/C COMPRESSOR CLUTCH
C143
C1014
S189
5.4L NGV ONLY
C143
(NOT USED)
C112
S148
C124
S107
C143
5.4L, 6.8L
DUAL BRAKE WARNING SWITCH
BRAKE AIR PRESSURE REGULATOR VALVE
4.6L
4.2L
WASHER PUMP
BLOWER MOTOR RESISTOR
NGV TIMER
C149
C153
C116F
C116M
151-11 A3
C157
C158
C1013
S143
5.4L NGV ONLY
570
BK/WH
570
BK/WH
TO ENGINE COMPARTMENT BATTERY DIA. 10-1
G101
151-10 E1
FROM S140 DIA. 10-4, 10-5, 10-15
M

Diagram 10-3

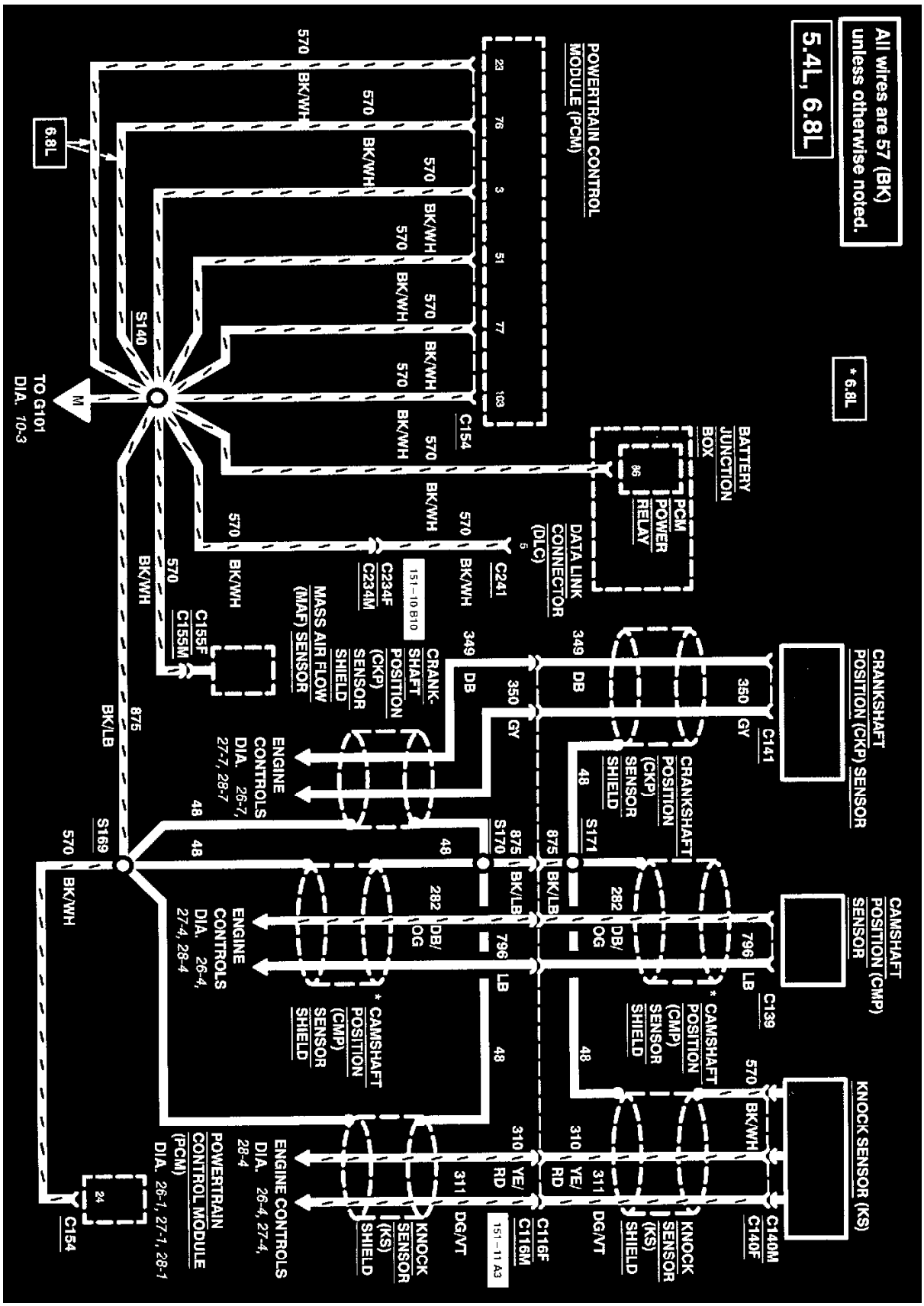

All wires are 57 (BK) unless otherwise noted.
5.4L, 6.8L
* 6.8L
POWERTRAIN CONTROL MODULE (PCM)
C154
BATTERY JUNCTION BOX
PCM POWER RELAY
DATA LINK CONNECTOR (DLC)
C241
CRANKSHAFT POSITION (CKP) SENSOR
C141
CRANKSHAFT POSITION (CKP) SENSOR SHIELD
S171
CAMSHAFT POSITION (CMP) SENSOR
C139
* CAMSHAFT POSITION (CMP) SENSOR SHIELD
KNOCK SENSOR (KS)
C140M
C140F
KNOCK SENSOR (KS) SHIELD
C116F
C116M
151-11 A3
CRANK-SHAFT POSITION (CKP) SENSOR SHIELD
C234F
C234M
151-10 B10
MASS AIR FLOW (MAF) SENSOR
C155F
C155M
S140
S169
S170
6.8L
TO G101
DIA. 70-3
ENGINE CONTROLS DIA. 26-7, 27-7, 28-7
ENGINE CONTROLS DIA. 26-4, 27-4, 28-4
ENGINE CONTROLS DIA. 26-4, 27-4, 28-4
POWERTRAIN CONTROL MODULE (PCM) DIA. 26-1, 27-1, 28-1
570 BK/WH
875 BK/LB
349 DB
350 GY
282 DB/OG
796 LB
310 YE/RD
311 DG/VT

Diagram 10-5

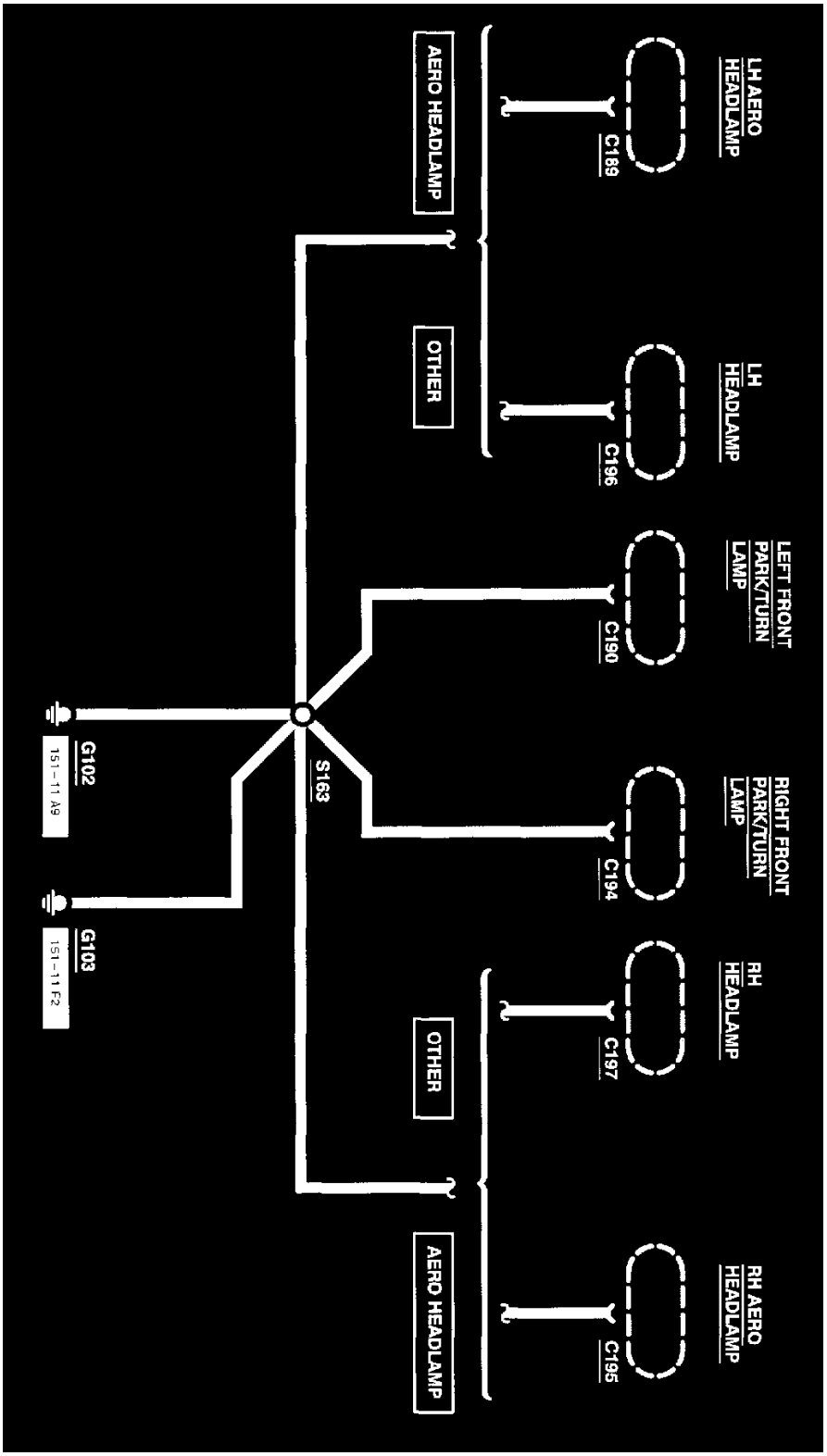

LH AERO HEADLAMP
C189
AERO HEADLAMP
LH HEADLAMP
C196
OTHER
LEFT FRONT PARK/TURN LAMP
C190
RIGHT FRONT PARK/TURN LAMP
C194
RH HEADLAMP
C197
OTHER
RH AERO HEADLAMP
C195
AERO HEADLAMP
S163
G102
151-11 A9
G103
151-11 F2

Diagram 10-7

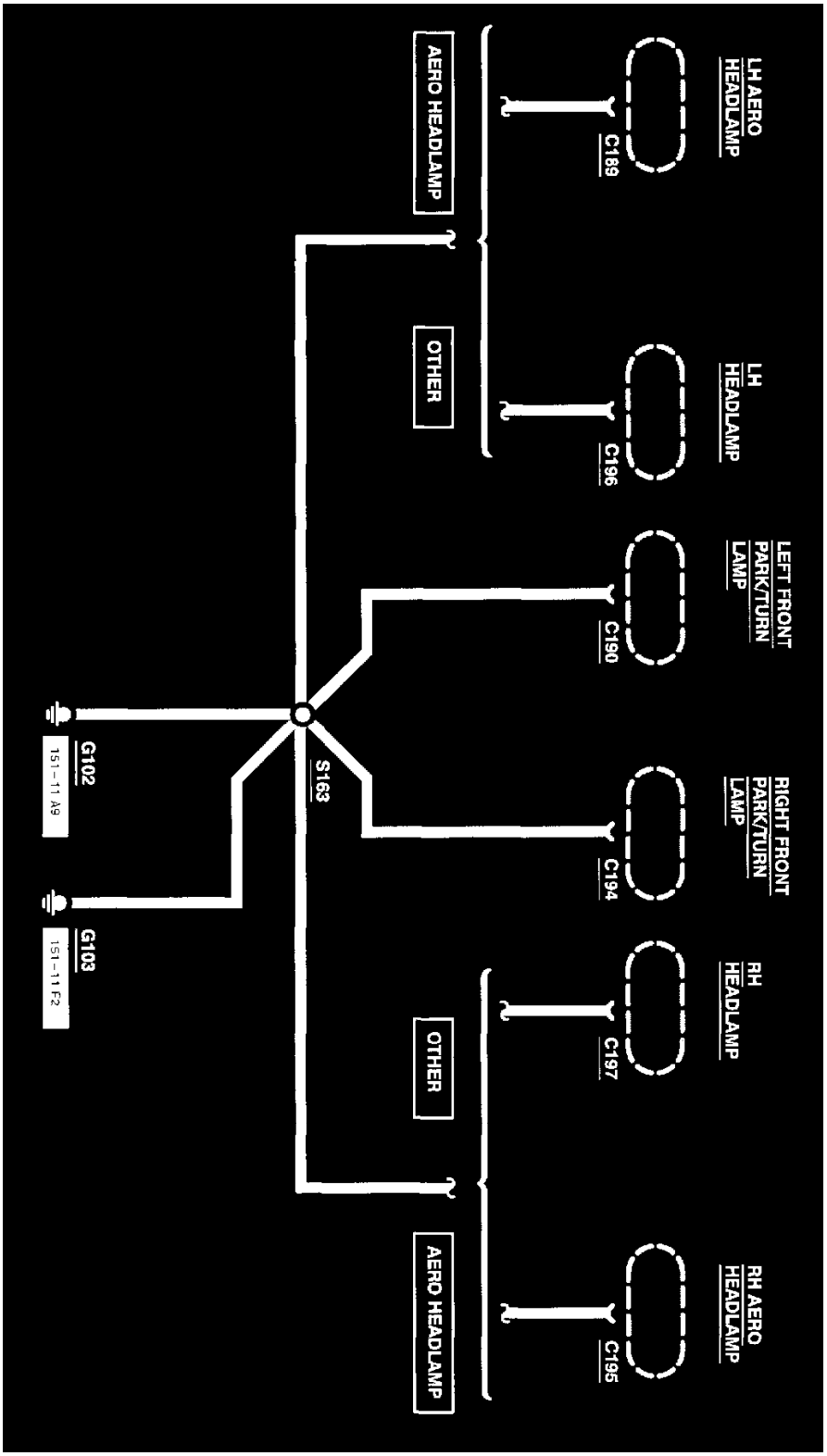

LH AERO HEADLAMP
C189
AERO HEADLAMP
LH HEADLAMP
C196
OTHER
LEFT FRONT PARK/TURN LAMP
C190
RIGHT FRONT PARK/TURN LAMP
C194
RH HEADLAMP
C197
OTHER
RH AERO HEADLAMP
C195
AERO HEADLAMP
S163
G102
151-11 A9
G103
151-11 F2

Diagram 10-7

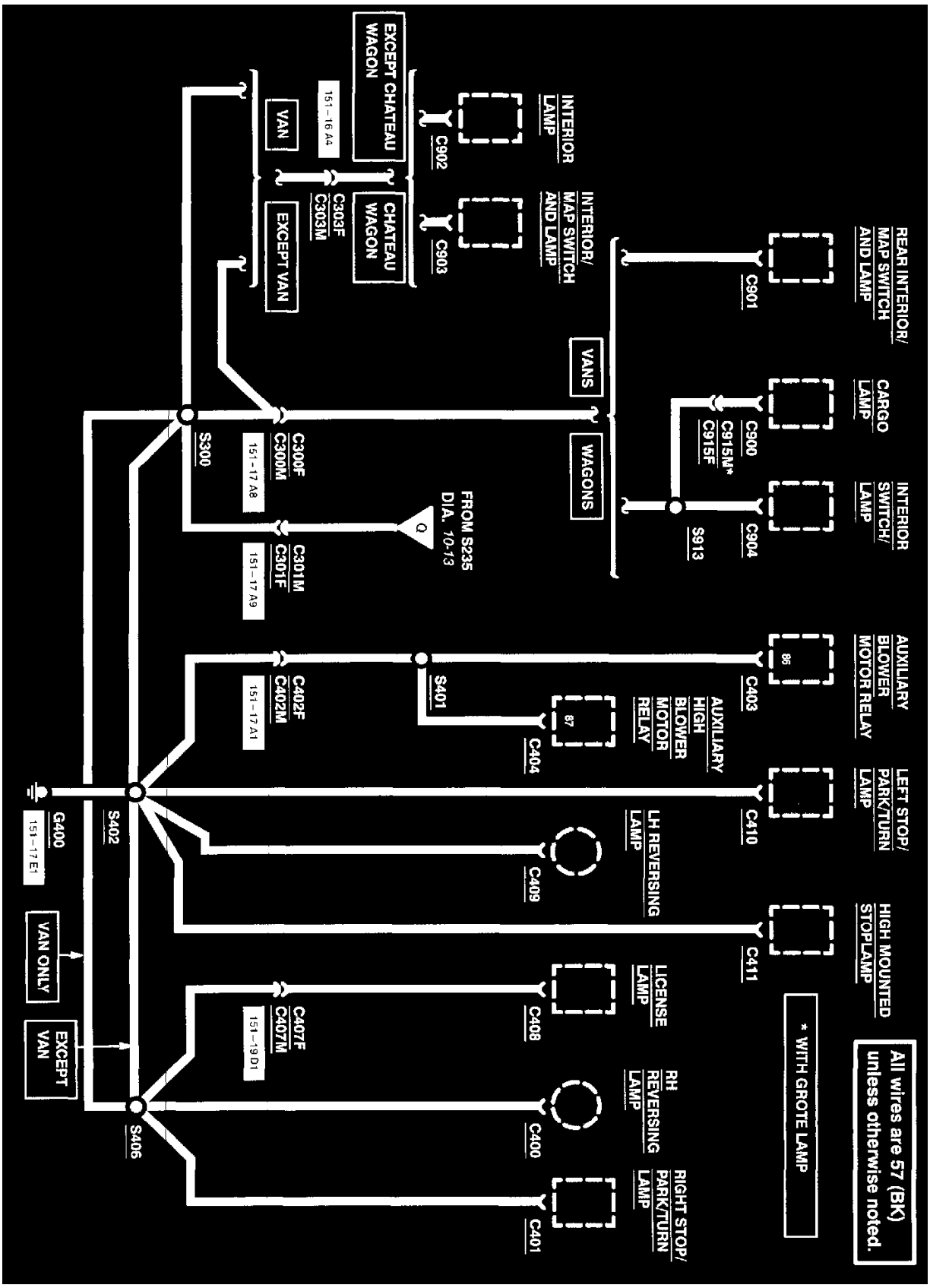


Diagram 10-14

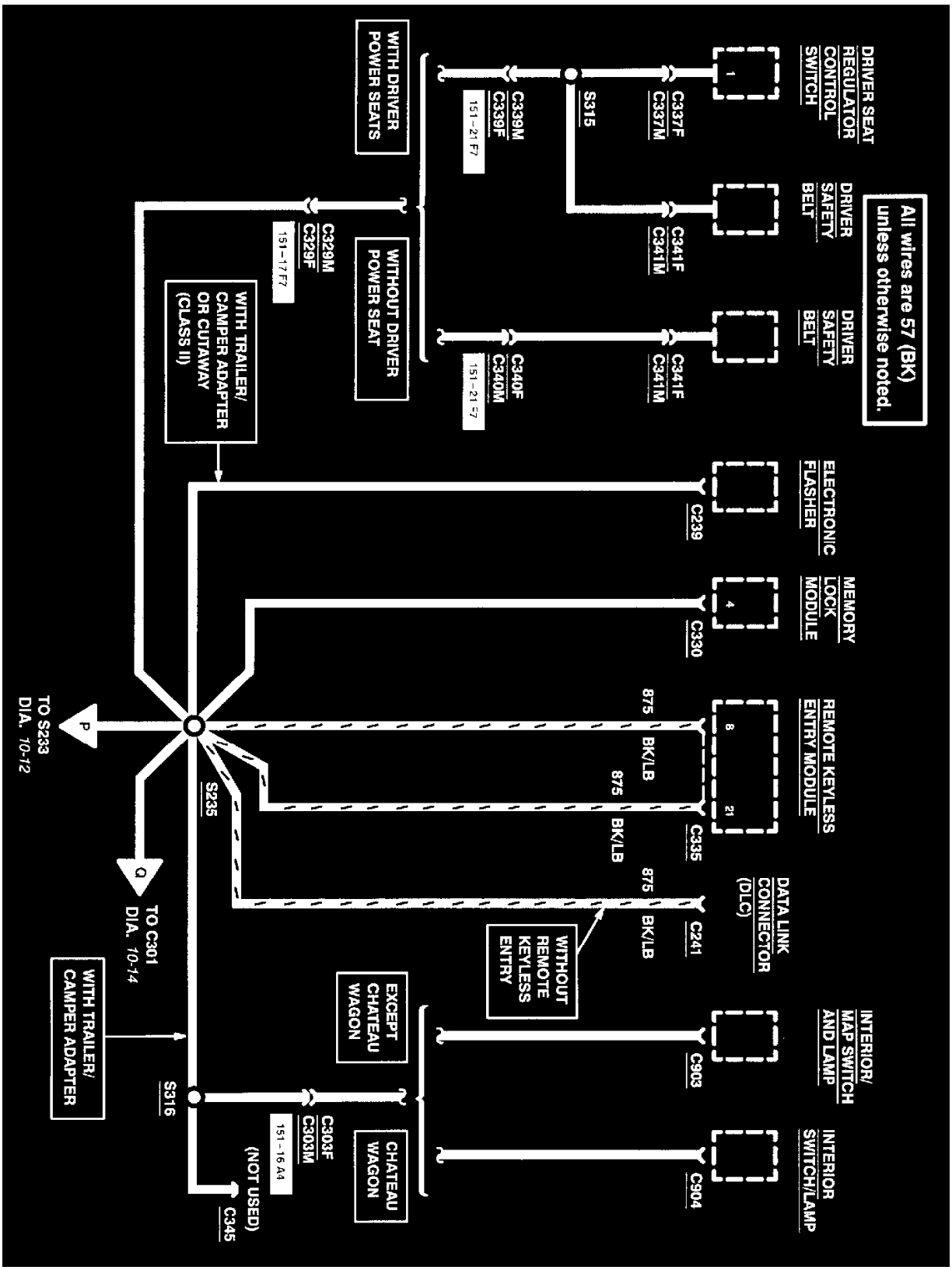


Diagram 10-13

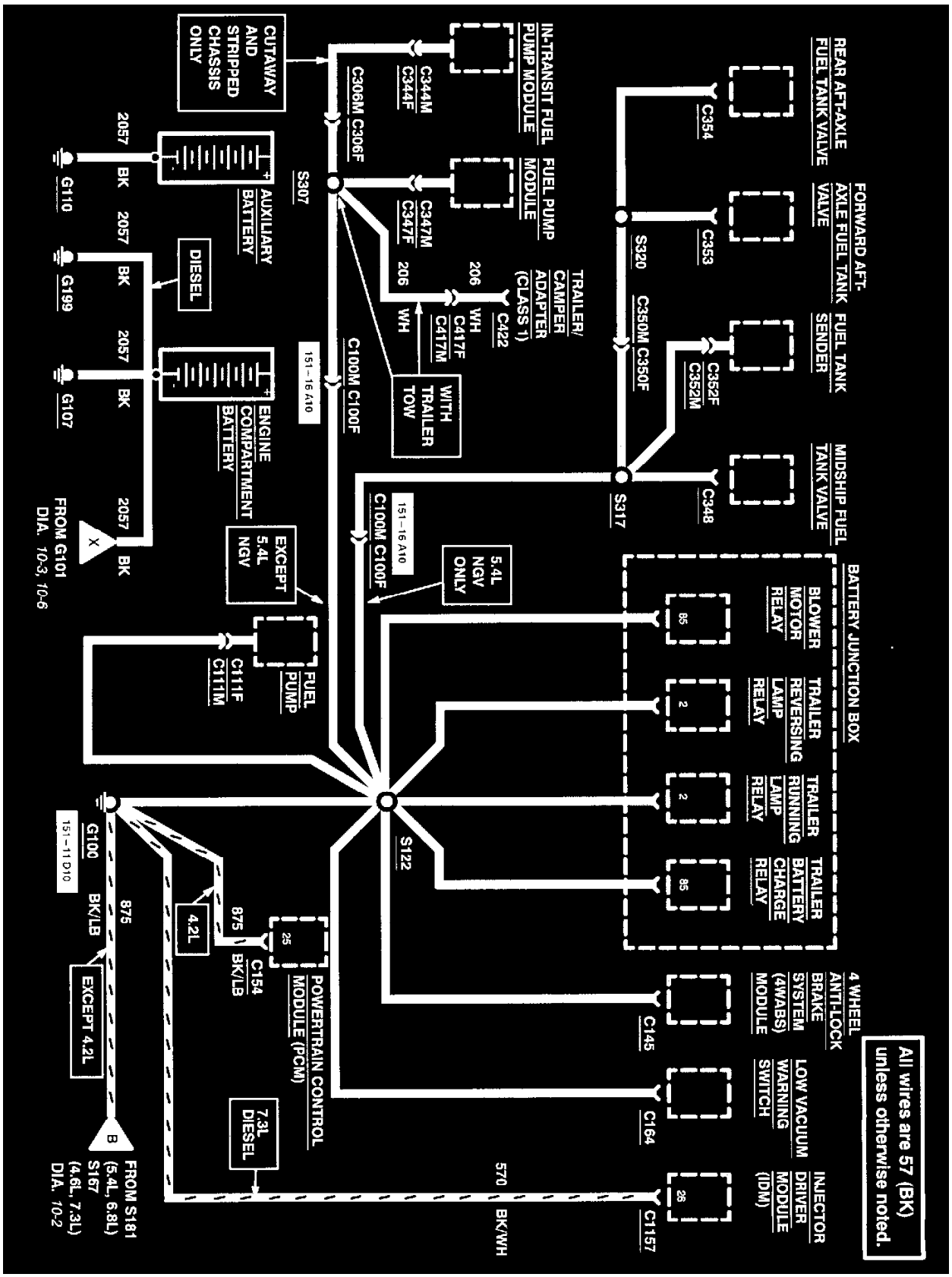

All wires are 57 (BK) unless otherwise noted.
REAR AFT-AXLE FUEL TANK VALVE
FORWARD AFT-AXLE FUEL TANK VALVE
FUEL TANK SENDER
MIDSHIP FUEL TANK VALVE
BATTERY JUNCTION BOX
BLOWER MOTOR RELAY
TRAILER REVERSING LAMP RELAY
TRAILER RUNNING LAMP RELAY
TRAILER BATTERY CHARGE RELAY
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
LOW VACUUM WARNING SWITCH
INJECTOR DRIVER MODULE (IDM)
POWERTRAIN CONTROL MODULE (PCM)
FUEL PUMP MODULE
IN-TRANSIT FUEL PUMP MODULE
TRAILER/ CAMPER ADAPTER (CLASS 1)
CUTAWAY AND STRIPPED CHASSIS ONLY
AUXILIARY BATTERY
ENGINE COMPARTMENT BATTERY
DIESEL
WITH TRAILER TOW
EXCEPT 5.4L NGV
5.4L NGV ONLY
FUEL PUMP
EXCEPT 4.2L
4.2L
7.3L DIESEL
FROM G101
DIA. 10-3, 10-6
FROM S181
(5.4L, 6.8L) S167
(4.6L, 7.3L)
DIA. 10-2
C354
C353
C352F C352M
C348
S320
C350M C350F
S317
C344M C344F
C347M C347F
C422
C417F C417M
C306M C306F
C100M C100F
S307
C111F C111M
C145
C164
C1157
C154
S122
G110
G199
G107
G100
2057
BK
WH
206
875
BK/LB
570
BK/WH
151-16 A10
151-11 D10

Diagram 10-1

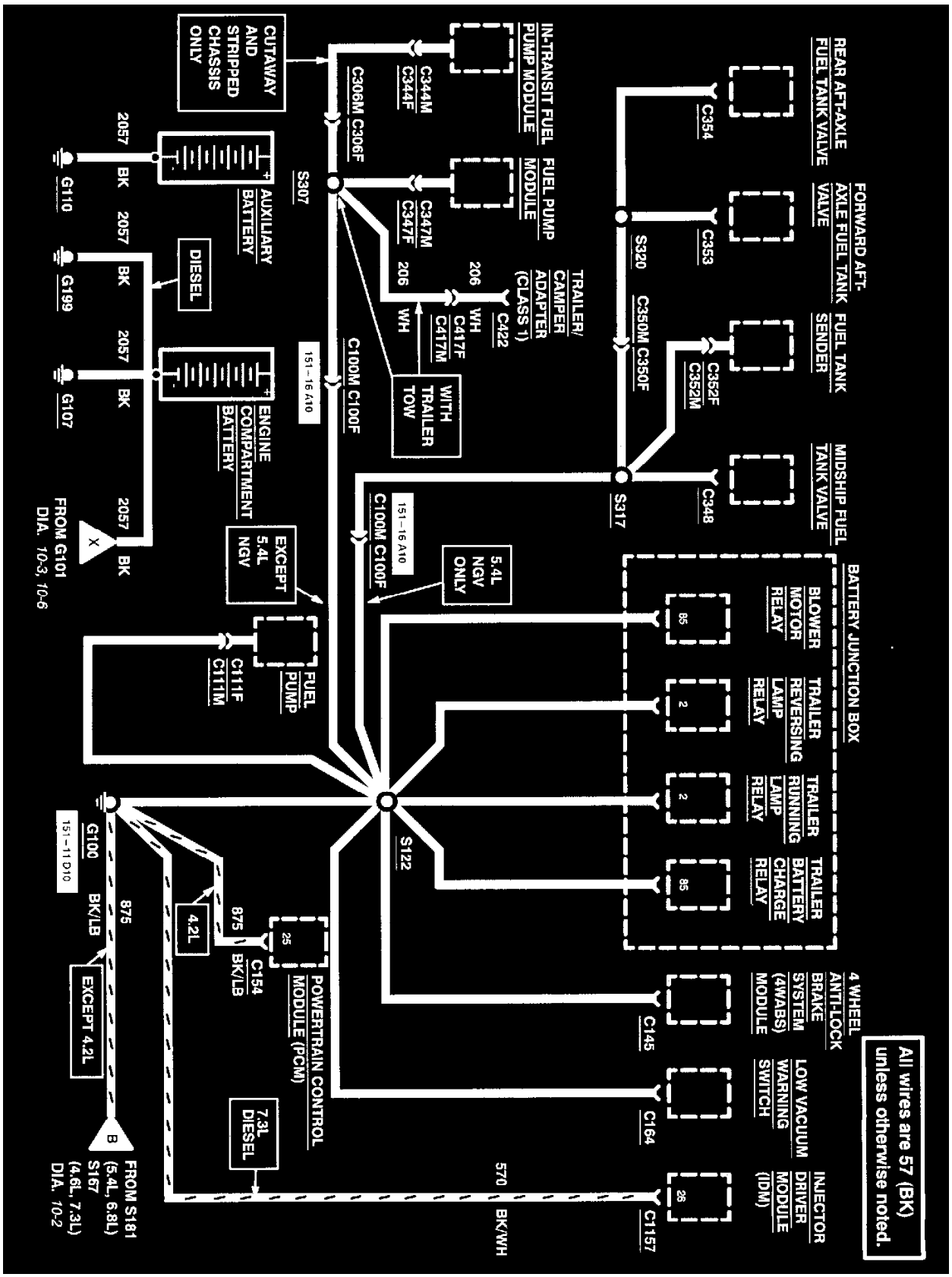

All wires are 57 (BK) unless otherwise noted.
REAR AFT-AXLE FUEL TANK VALVE
FORWARD AFT-AXLE FUEL TANK VALVE
FUEL TANK SENDER
MIDSHIP FUEL TANK VALVE
BATTERY JUNCTION BOX
BLOWER MOTOR RELAY
TRAILER REVERSING LAMP RELAY
TRAILER RUNNING LAMP RELAY
TRAILER BATTERY CHARGE RELAY
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
LOW VACUUM WARNING SWITCH
INJECTOR DRIVER MODULE (IDM)
POWERTRAIN CONTROL MODULE (PCM)
FUEL PUMP MODULE
IN-TRANSIT FUEL PUMP MODULE
TRAILER/ CAMPER ADAPTER (CLASS 1)
CUTAWAY AND STRIPPED CHASSIS ONLY
AUXILIARY BATTERY
ENGINE COMPARTMENT BATTERY
DIESEL
WITH TRAILER TOW
EXCEPT 5.4L NGV
5.4L NGV ONLY
FUEL PUMP
7.3L DIESEL
4.2L
EXCEPT 4.2L
FROM G101 DIA. 10-3, 10-6
FROM S181 (5.4L, 6.8L) S167 (4.6L, 7.3L) DIA. 10-2
C354
C353
C352F C352M
C348
S320
C350M C350F
S317
C344M C344F
C347M C347F
C422
C417F C417M
C306M C306F
C100M C100F
S307
C145
C164
C1157
C154
C111F C111M
S122
G110
G199
G107
G100
151-16 A10
151-11 D10
2057
BK
206
WH
570
BK/WH
875
BK/LB

Diagram 10-1

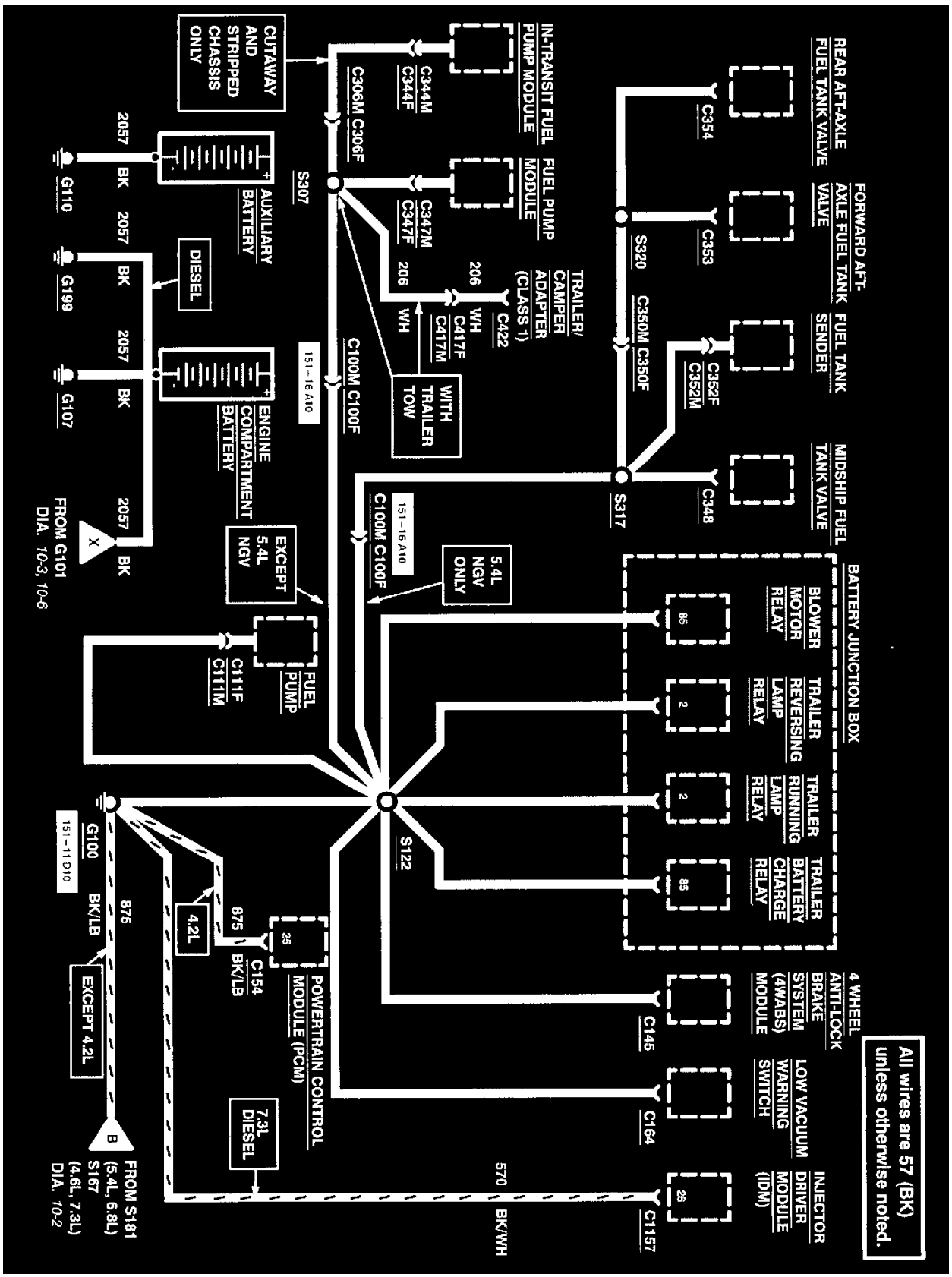

All wires are 57 (BK) unless otherwise noted.
REAR AFT-AXLE FUEL TANK VALVE
FORWARD AFT-AXLE FUEL TANK VALVE
FUEL TANK SENDER
MIDSHIP FUEL TANK VALVE
BATTERY JUNCTION BOX
BLOWER MOTOR RELAY
TRAILER REVERSING LAMP RELAY
TRAILER RUNNING LAMP RELAY
TRAILER BATTERY CHARGE RELAY
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
LOW VACUUM WARNING SWITCH
INJECTOR DRIVER MODULE (IDM)
POWERTRAIN CONTROL MODULE (PCM)
FUEL PUMP MODULE
IN-TRANSIT FUEL PUMP MODULE
TRAILER/ CAMPER ADAPTER (CLASS 1)
CUTAWAY AND STRIPPED CHASSIS ONLY
AUXILIARY BATTERY
ENGINE COMPARTMENT BATTERY
DIESEL
WITH TRAILER TOW
EXCEPT 5.4L NGV
5.4L NGV ONLY
FUEL PUMP
EXCEPT 4.2L
4.2L
7.3L DIESEL
FROM G101
DIA. 10-3, 10-6
FROM S181
(5.4L, 6.8L)
S167
(4.6L, 7.3L)
DIA. 10-2
C354
C353
C352F
C352M
C350M
C350F
C348
S320
S317
S307
S122
C344M
C344F
C347M
C347F
C422
C417F
C417M
C306M
C306F
C100M
C100F
C111F
C111M
C154
C145
C164
C1157
G110
G199
G107
G100
151-16 A10
151-11 D10
2057
BK
206
WH
875
BK/LB
570
BK/WH

Diagram 10-1

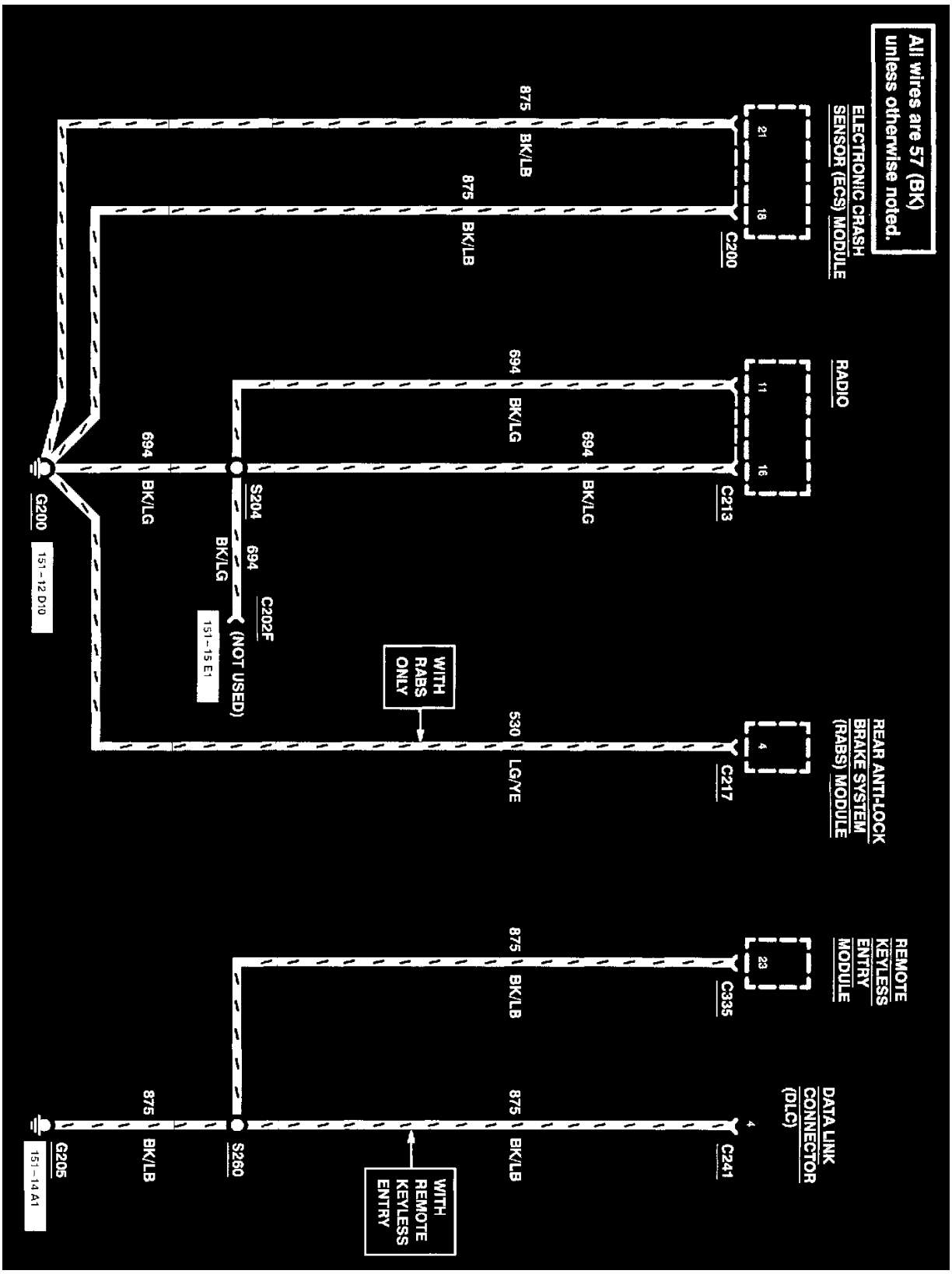

All wires are 57 (BK) unless otherwise noted.
ELECTRONIC CRASH SENSOR (ECS) MODULE
21
18
C200
875
BK/LB
875
BK/LB
RADIO
11
16
C213
694
BK/LG
694
BK/LG
694
BK/LG
S204
694
BK/LG
C202F
(NOT USED)
151-15 E1
G200
151-12 D10
WITH RABS ONLY
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
4
C217
530
LG/YE
REMOTE KEYLESS ENTRY MODULE
23
C335
875
BK/LB
DATA LINK CONNECTOR (DLC)
4
C241
875
BK/LB
WITH REMOTE KEYLESS ENTRY
S260
875
BK/LB
G205
151-14 A1

Diagram 10-8

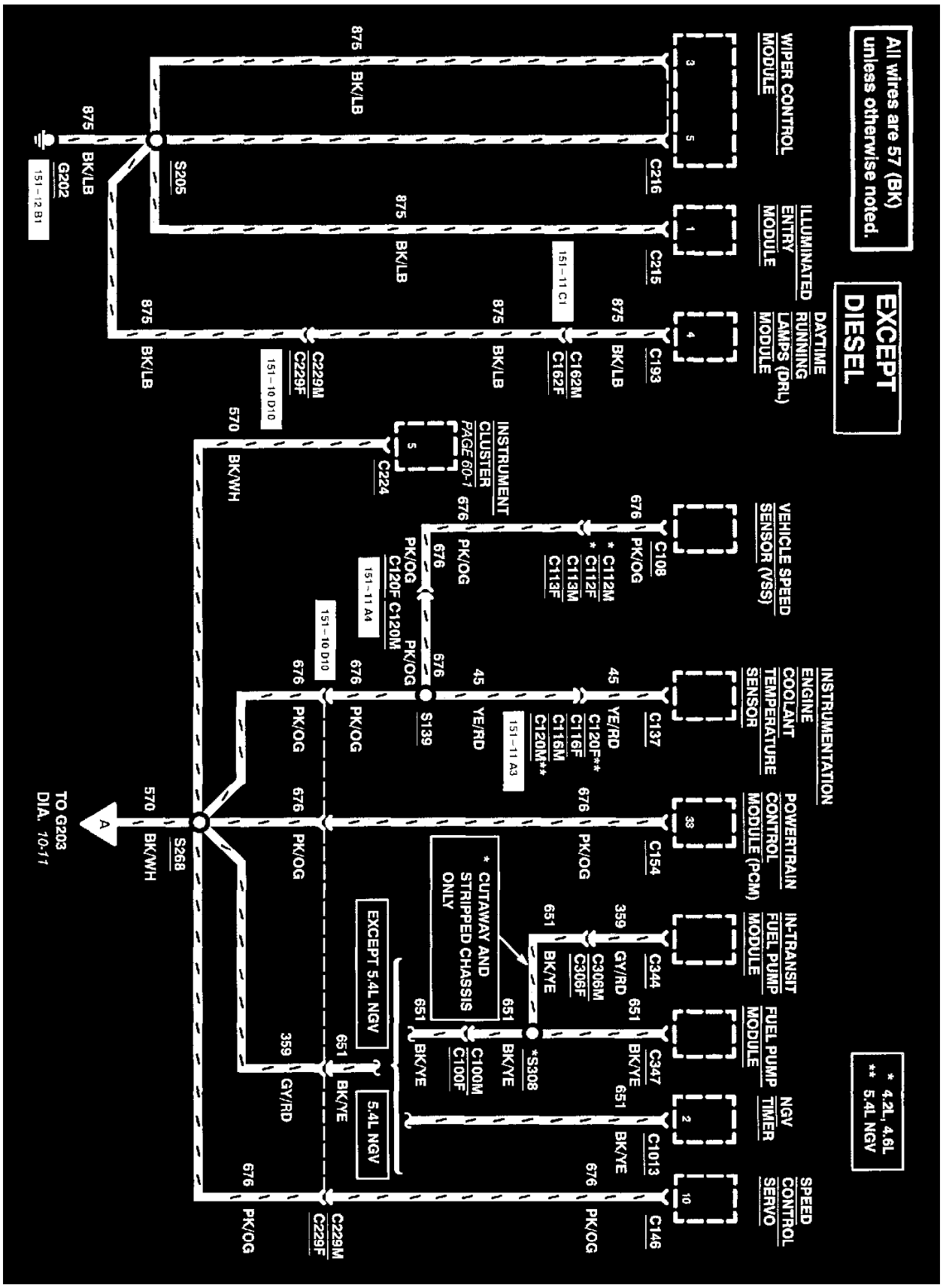

All wires are 57 (BK) unless otherwise noted.
EXCEPT DIESEL
* 4.2L, 4.6L
** 5.4L NGV
WIPER CONTROL MODULE
ILLUMINATED ENTRY MODULE
DAYTIME RUNNING LAMPS (DRL) MODULE
INSTRUMENTATION
ENGINE COOLANT TEMPERATURE SENSOR
VEHICLE SPEED SENSOR (VSS)
POWERTRAIN CONTROL MODULE (PCM)
IN-TRANSIT FUEL PUMP MODULE
FUEL PUMP MODULE
NGV TIMER
SPEED CONTROL SERVO
INSTRUMENT CLUSTER
PAGE 60-1
EXCEPT 5.4L NGV
5.4L NGV
* CUTAWAY AND STRIPPED CHASSIS ONLY
TO G203 DIA. 10-11
C216
C215
C193
C162M C162F
C229M C229F
C224
C108
C112M C112F C113M C113F
C137
C120F** C116F C116M C120M**
C154
C344
C306M C306F
C347
C100M C100F
C1013
C146
S205
G202
S139
S268
*S308
151-12 B1
151-11 C1
151-10 D10
151-11 A4
151-11 A3
875 BK/LB
570 BK/WH
676 PK/OG
45 YE/RD
359 GY/RD
651 BK/YE

Diagram 10-9

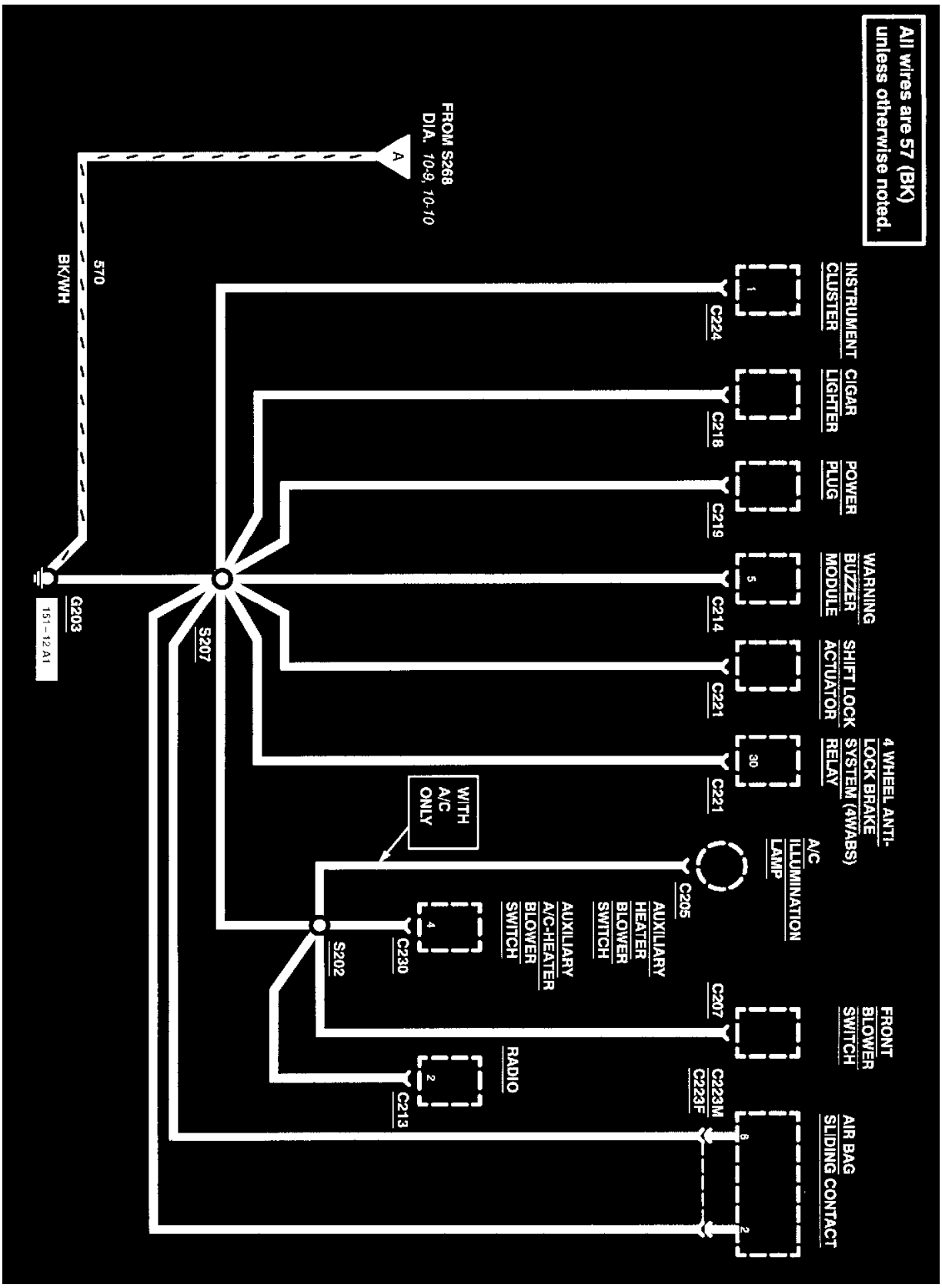


Diagram 10-11

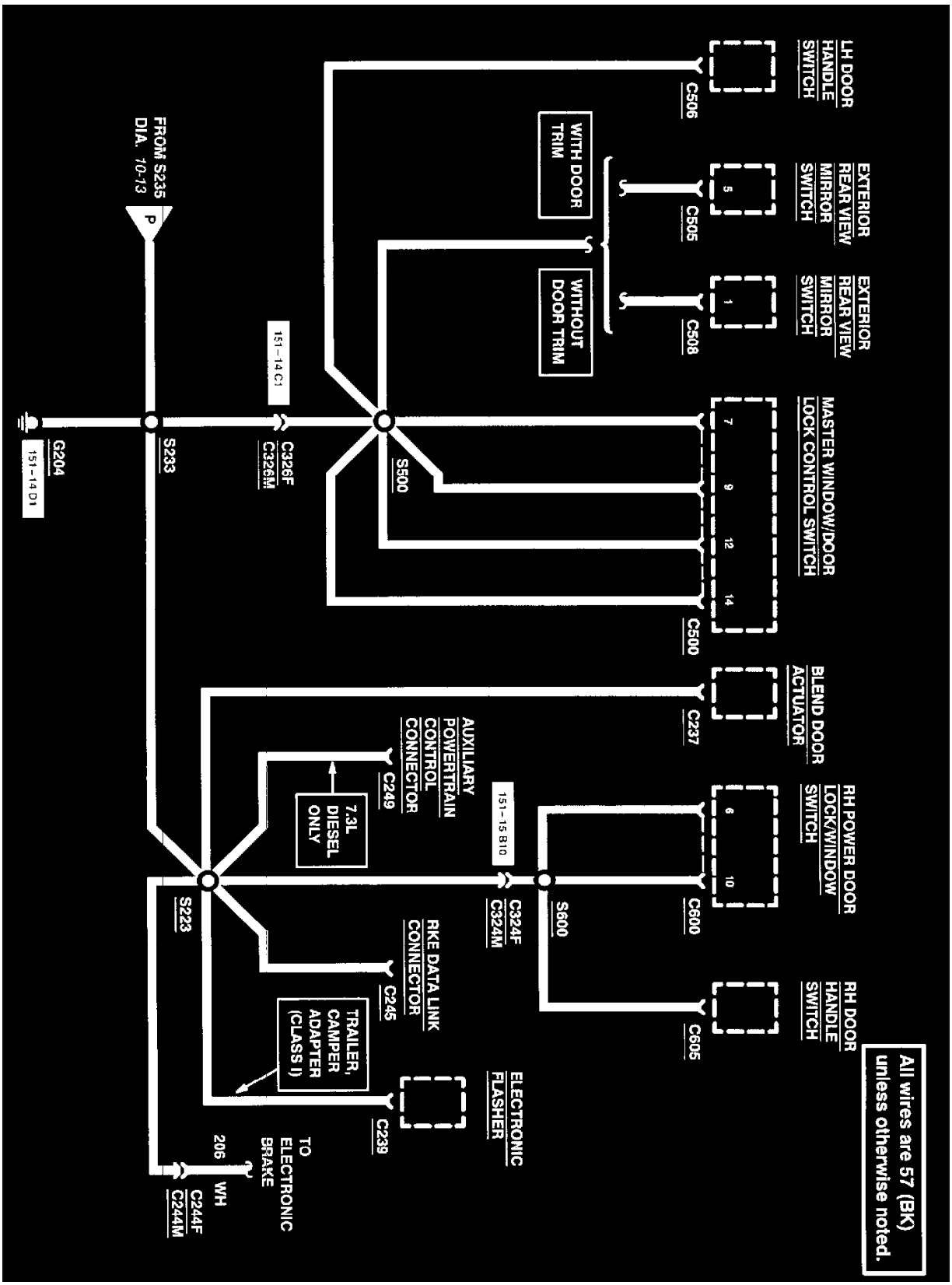


Diagram 10-12

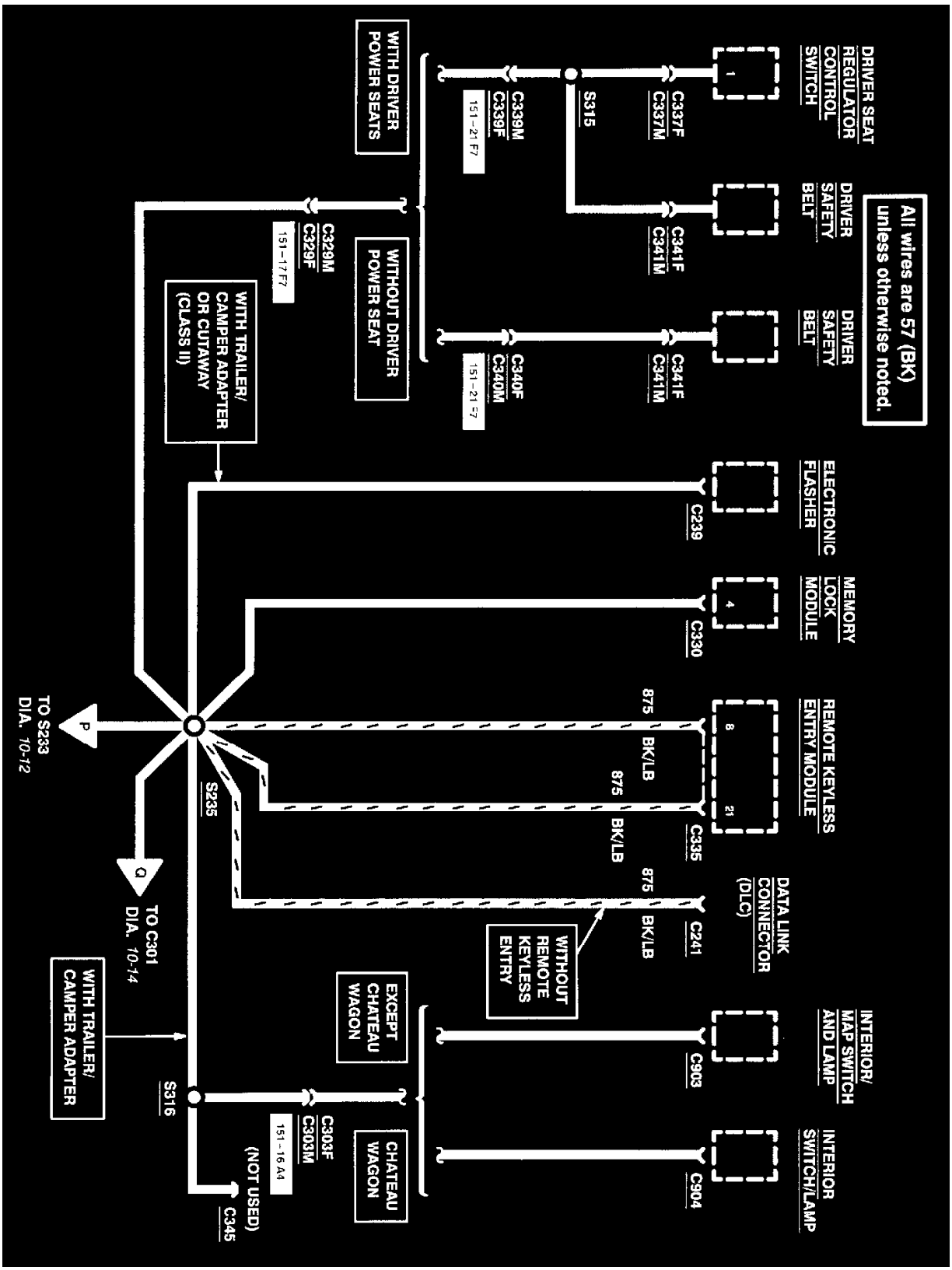


Diagram 10-13

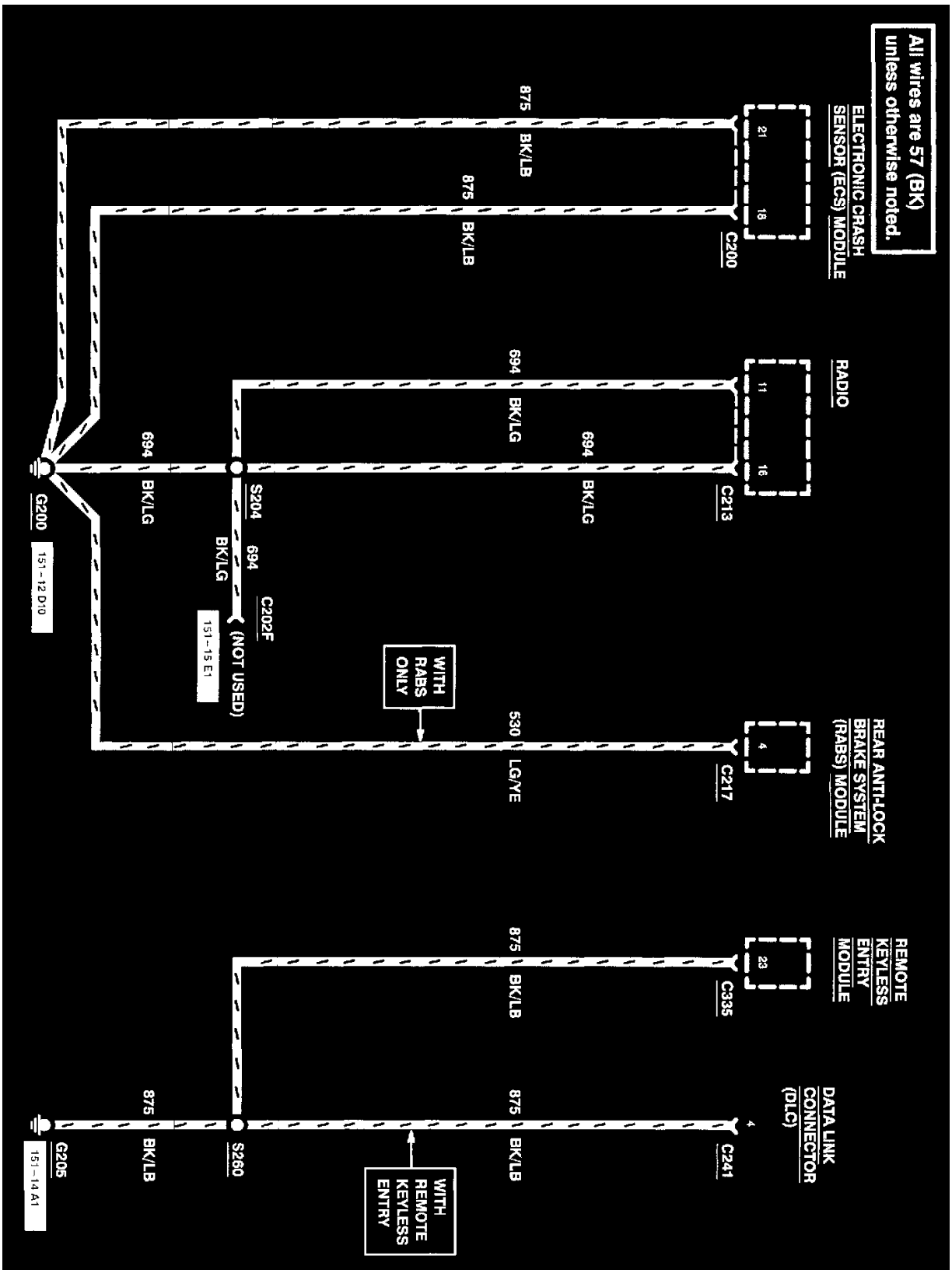


Diagram 10-8

Power Distribution Diagrams

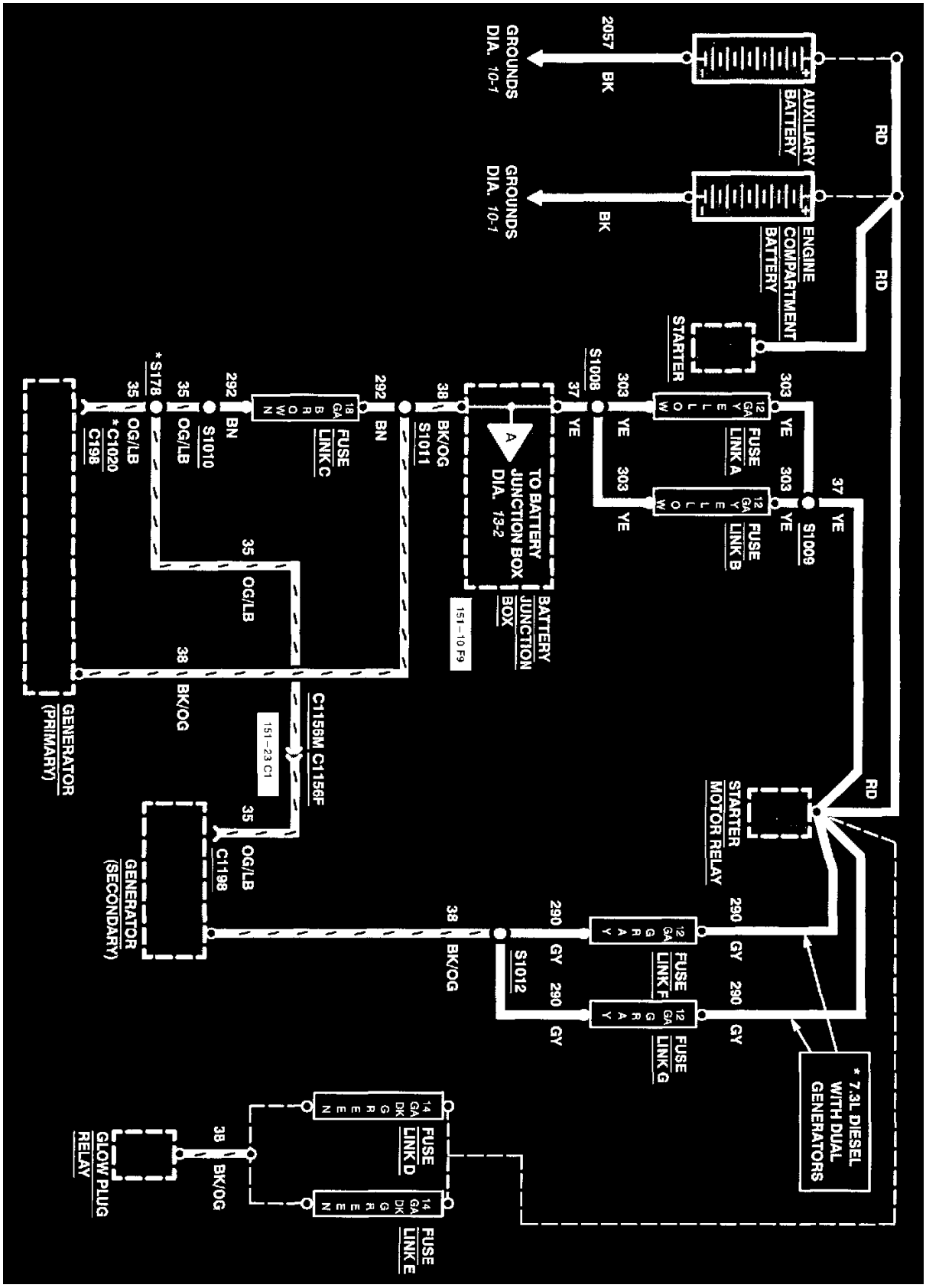

AUXILIARY BATTERY
ENGINE COMPARTMENT BATTERY
STARTER
GROUNDS DIA. 10-1
GROUNDS DIA. 10-1
2057
BK
BK
RD
RD
RD
303
YE
S1008
37
YE
303
YE
S1009
303
YE
303
YE
FUSE LINK A
FUSE LINK B
12 GA YELLOW
TO BATTERY JUNCTION BOX DIA. 13-2
BATTERY JUNCTION BOX
151-10 F9
292
BN
S1010
35
OG/LB
* S178
35
OG/LB
* C1020
C198
FUSE LINK C
18 GA BRN WHT
292
BN
S1011
38
BK/OG
35
OG/LB
38
BK/OG
C1156M C1156F
151-23 C1
35
OG/LB
C1198
GENERATOR (PRIMARY)
GENERATOR (SECONDARY)
STARTER MOTOR RELAY
290
GY
290
GY
S1012
290
GY
290
GY
38
BK/OG
FUSE LINK F
FUSE LINK G
12 GA GRAY
* 7.3L DIESEL WITH DUAL GENERATORS
FUSE LINK D
FUSE LINK E
14 GA DK GRN
38
BK/OG
GLOW PLUG RELAY

Diagram 13-1

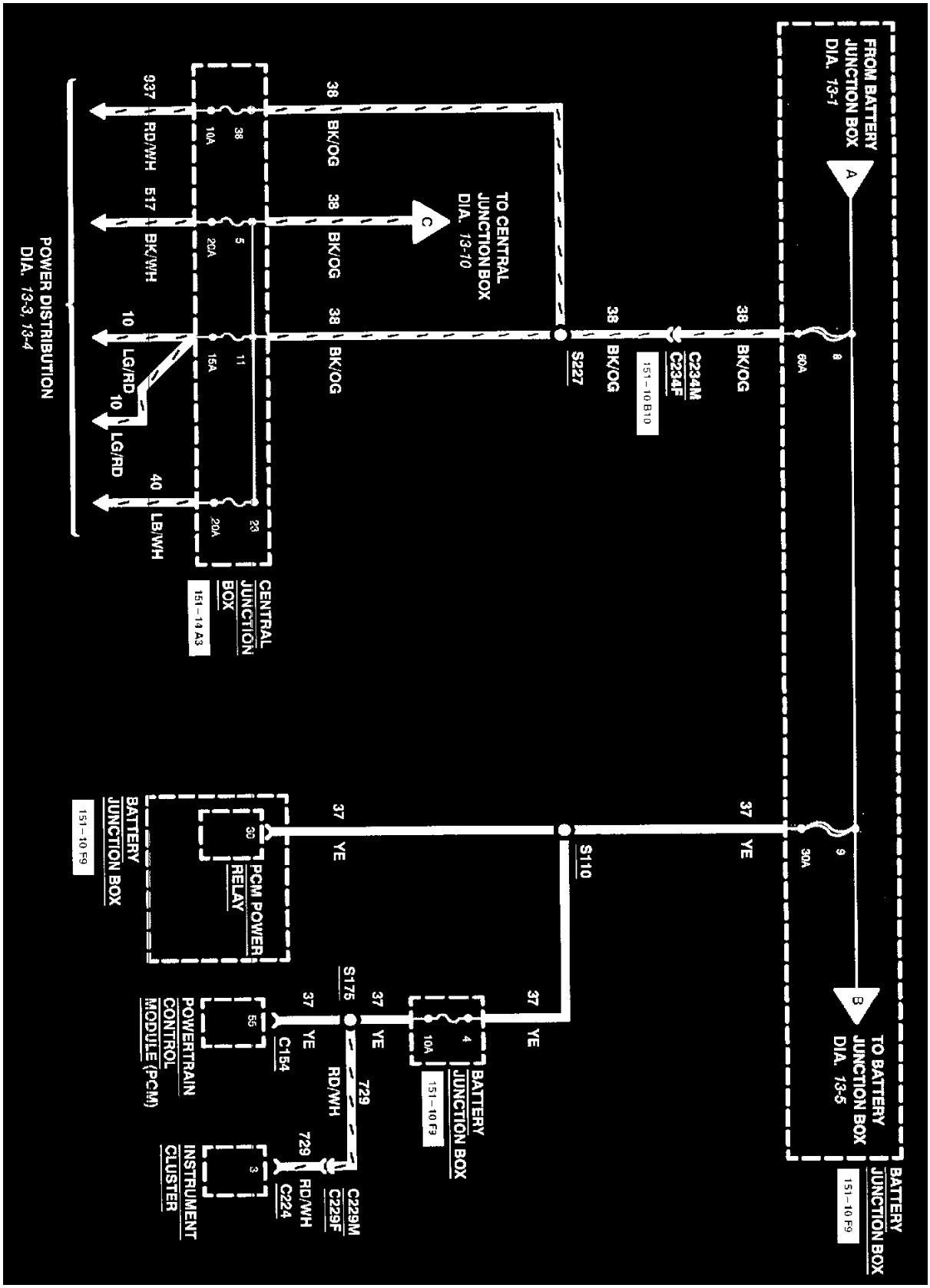

FROM BATTERY JUNCTION BOX DIA. 13-1
A
B
TO BATTERY JUNCTION BOX DIA. 13-5
BATTERY JUNCTION BOX
151-10 F9
8
60A
9
30A
38 BK/OG
37 YE
C234M
C234F
151-10 B10
S227
S110
TO CENTRAL JUNCTION BOX DIA. 13-10
C
937 RD/WH
517 BK/WH
LG/RD
LB/WH
POWER DISTRIBUTION DIA. 13-3, 13-4
CENTRAL JUNCTION BOX
151-14 A3
10A
20A
15A
PCM POWER RELAY
BATTERY JUNCTION BOX
S175
C154
POWERTRAIN CONTROL MODULE (PCM)
729 RD/WH
C229M
C229F
C224
INSTRUMENT CLUSTER

Diagram 13-2

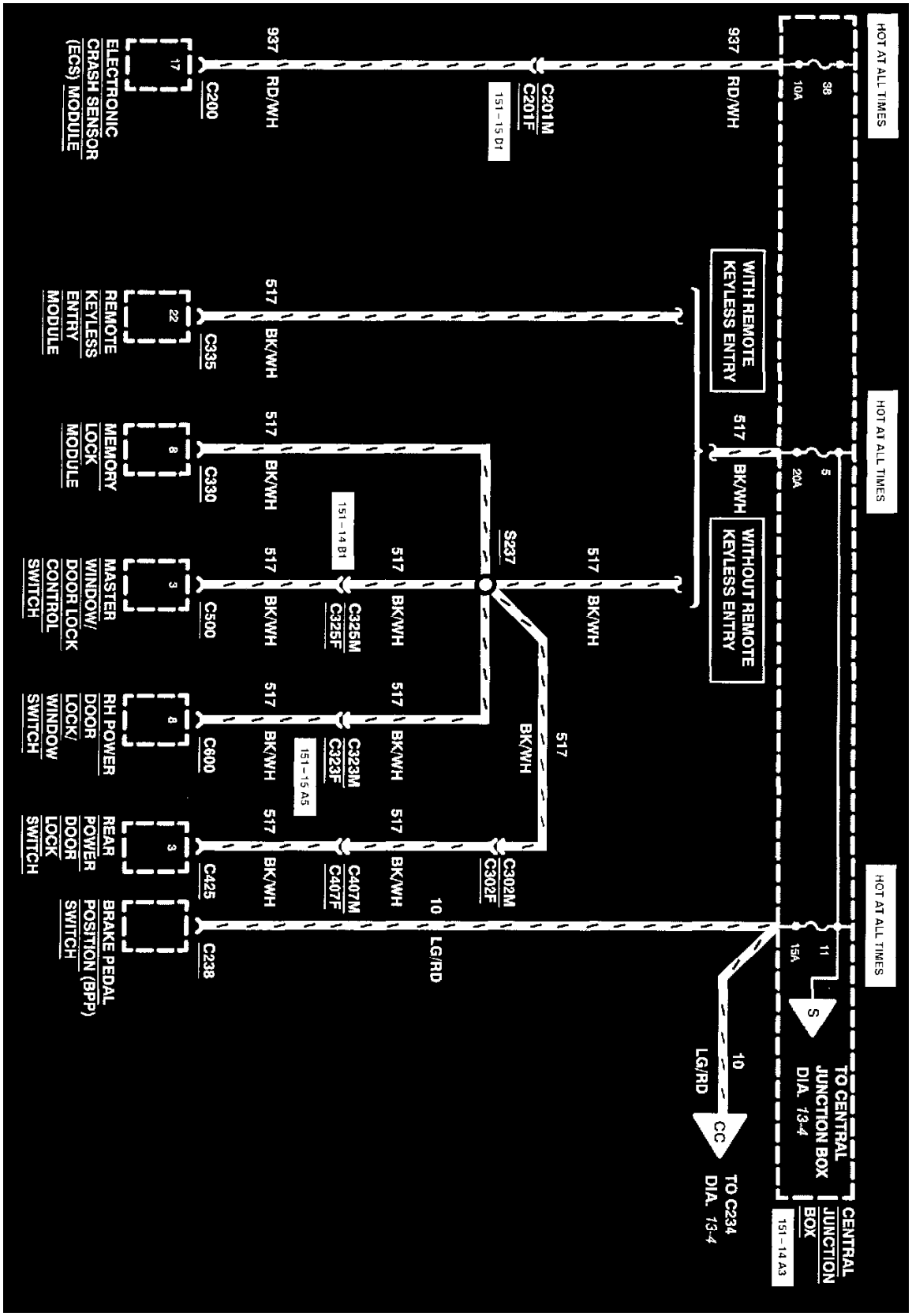

HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
38
10A
5
20A
11
15A
CENTRAL JUNCTION BOX
151-14 A3
TO CENTRAL JUNCTION BOX DIA. 13-4
S
10
LG/RD
CC
TO C234 DIA. 13-4
937
RD/WH
C201M
C201F
151-15 D1
C200
17
ELECTRONIC CRASH SENSOR (ECS) MODULE
WITH REMOTE KEYLESS ENTRY
517
BK/WH
WITHOUT REMOTE KEYLESS ENTRY
S237
C335
22
REMOTE KEYLESS ENTRY MODULE
C330
8
MEMORY LOCK MODULE
151-14 B1
C325M
C325F
C500
3
MASTER WINDOW/ DOOR LOCK CONTROL SWITCH
C323M
C323F
151-15 A5
C600
8
RH POWER DOOR LOCK/ WINDOW SWITCH
C302M
C302F
C407M
C407F
C425
3
REAR POWER DOOR LOCK SWITCH
C238
BRAKE PEDAL POSITION (BPP) SWITCH

Diagram 13-3

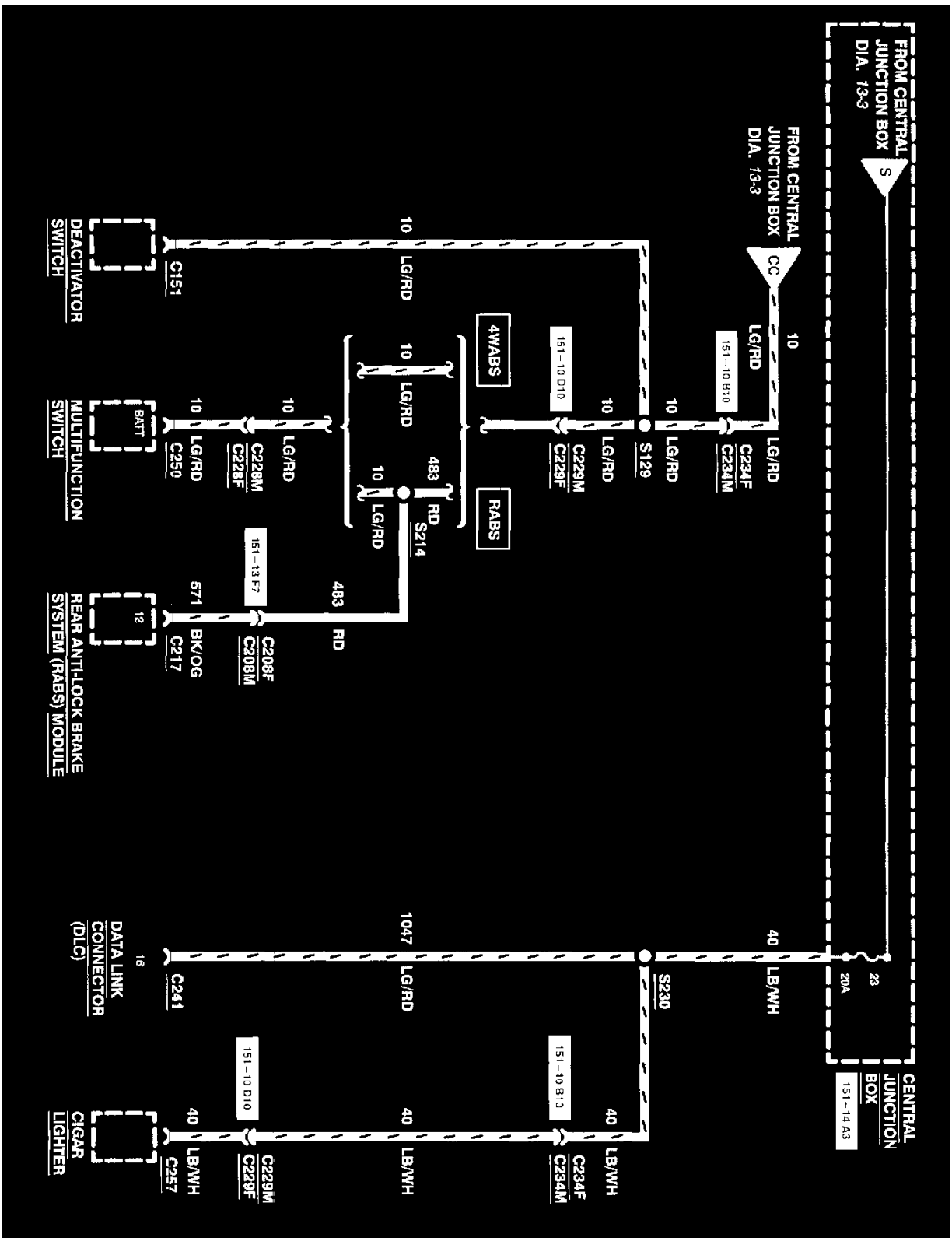

FROM CENTRAL JUNCTION BOX DIA. 13-3
S
CENTRAL JUNCTION BOX
151-14 A3
23
20A
FROM CENTRAL JUNCTION BOX DIA. 13-3
CC
10
LG/RD
151-10 B10
C234F
C234M
LG/RD
40
LB/WH
S230
10
LG/RD
S129
10
LG/RD
C229M
C229F
151-10 D10
4WABS
RABS
10
LG/RD
C151
DEACTIVATOR SWITCH
10
LG/RD
10
LG/RD
483
RD
S214
10
LG/RD
10
LG/RD
C228M
C228F
BATT
MULTIFUNCTION SWITCH
10
LG/RD
C250
151-13 F7
571
BK/OG
C217
12
483
RD
C208F
C208M
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
1047
LG/RD
16
DATA LINK CONNECTOR (DLC)
C241
40
LB/WH
C234F
C234M
151-10 B10
40
LB/WH
C229M
C229F
151-10 D10
40
LB/WH
C257
CIGAR LIGHTER

Diagram 13-4

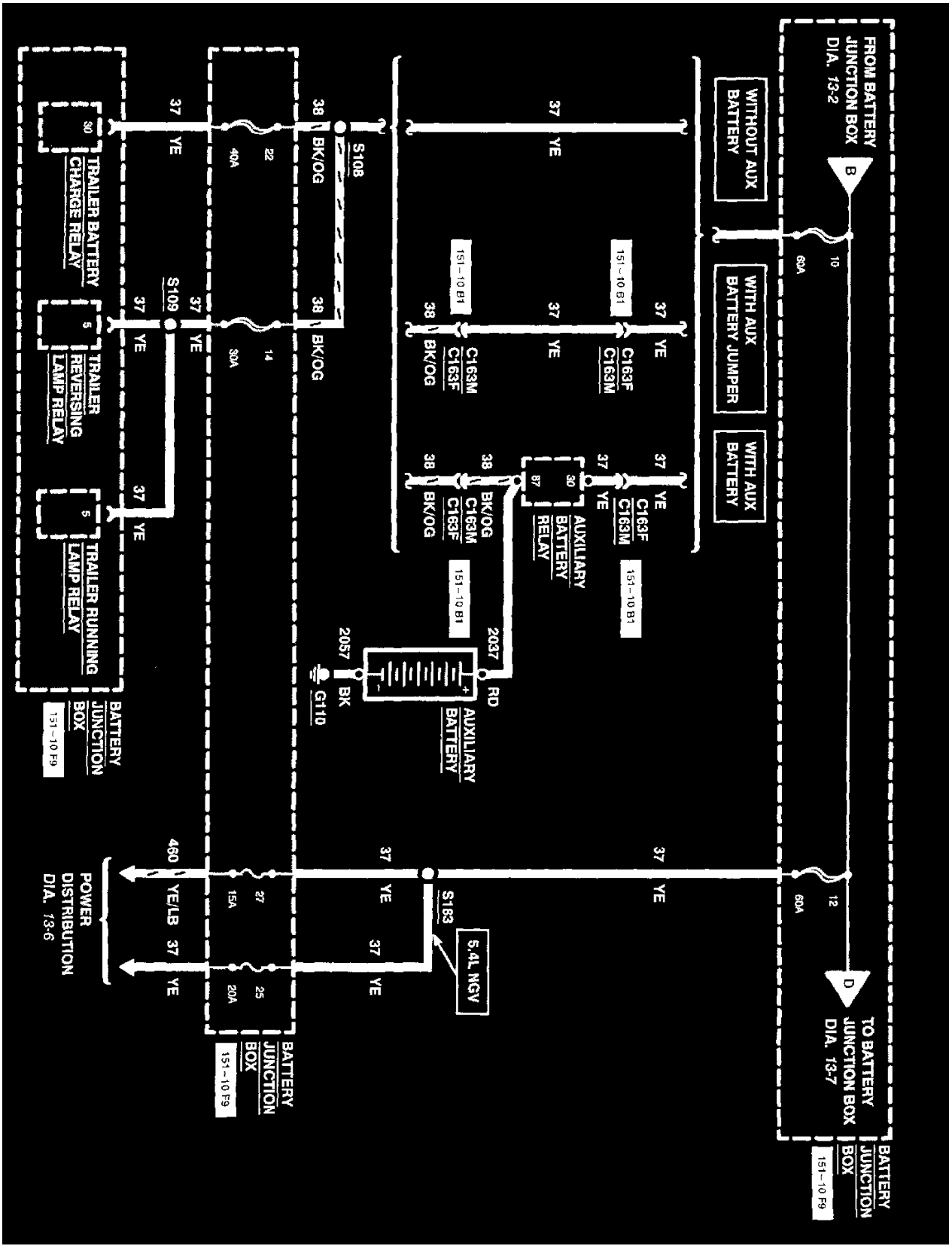

FROM BATTERY JUNCTION BOX DIA. 13-2
B
10
60A
WITHOUT AUX BATTERY
WITH AUX BATTERY JUMPER
WITH AUX BATTERY
37
YE
151-10 B1
C163F
C163M
C163M
C163F
38
BK/OG
AUXILIARY BATTERY RELAY
87
30
2037
RD
2057
BK
G110
AUXILIARY BATTERY
S108
S109
TRAILER BATTERY CHARGE RELAY
TRAILER REVERSING LAMP RELAY
TRAILER RUNNING LAMP RELAY
5
22
40A
14
30A
BATTERY JUNCTION BOX
151-10 F9
TO BATTERY JUNCTION BOX DIA. 13-7
12
60A
S183
5.4L NGV
460
YE/LB
27
15A
25
20A
POWER DISTRIBUTION DIA. 13-6

Diagram 13-5

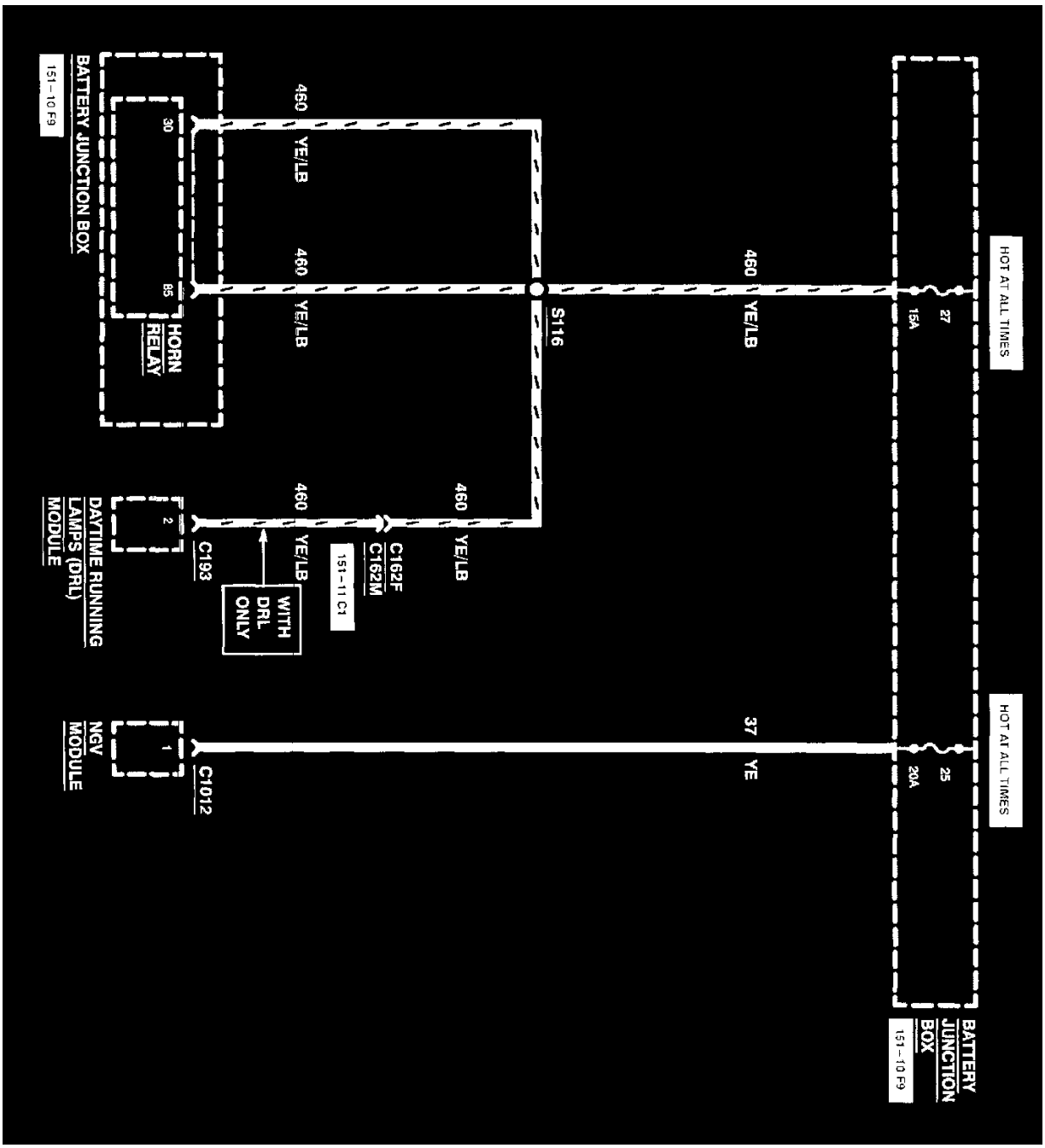

HOT AT ALL TIMES
27
15A
460
YE/LB
S116
460
YE/LB
460
YE/LB
30
85
HORN RELAY
BATTERY JUNCTION BOX
151-10 F9
460
YE/LB
C162F
C162M
151-11 C1
460
YE/LB
WITH DRL ONLY
C193
2
DAYTIME RUNNING LAMPS (DRL) MODULE
HOT AT ALL TIMES
25
20A
37
YE
C1012
1
NGV MODULE
BATTERY JUNCTION BOX
151-10 F9

Diagram 13-6

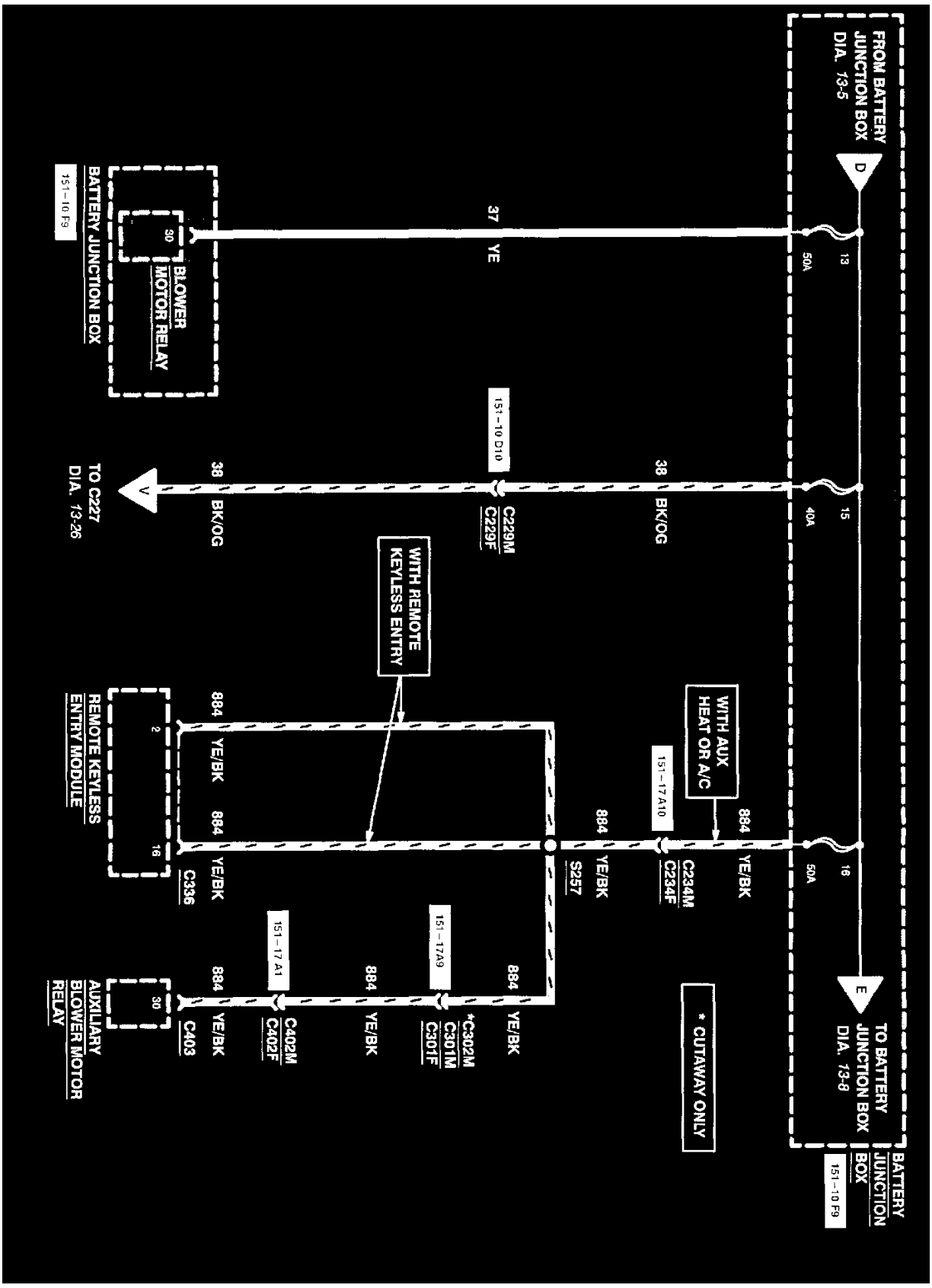

FROM BATTERY JUNCTION BOX DIA. 13-5
D
13
50A
37
YE
30
BLOWER MOTOR RELAY
BATTERY JUNCTION BOX
151-10 F9
151-10 D10
38
BK/OG
C229M
C229F
TO C227 DIA. 13-26
V
15
40A
WITH REMOTE KEYLESS ENTRY
884
YE/BK
2
REMOTE KEYLESS ENTRY MODULE
16
C336
WITH AUX HEAT OR A/C
151-17 A10
C234M
C234F
S257
E
16
50A
TO BATTERY JUNCTION BOX DIA. 13-8
BATTERY JUNCTION BOX
151-10 F9
* CUTAWAY ONLY
151-17 A9
*C302M
C301M
C301F
151-17 A1
C402M
C402F
C403
30
AUXILIARY BLOWER MOTOR RELAY

Diagram 13-7

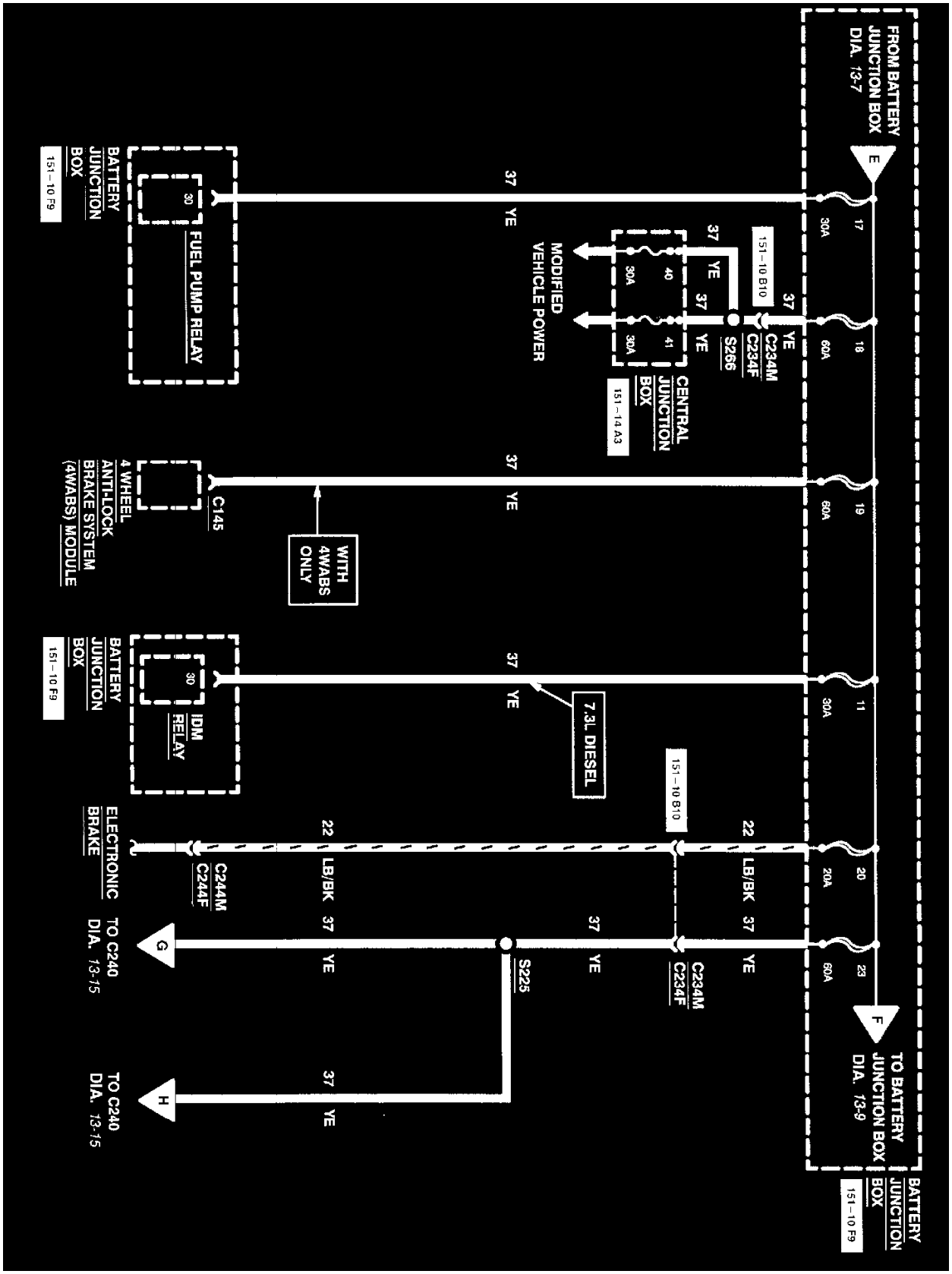

FROM BATTERY JUNCTION BOX DIA. 13-7
E
17
30A
18
60A
19
60A
11
30A
20
20A
23
60A
F
TO BATTERY JUNCTION BOX DIA. 13-9
BATTERY JUNCTION BOX
151-10 F9
37
YE
151-10 B10
C234M
C234F
S266
37
YE
40
30A
41
30A
CENTRAL JUNCTION BOX
151-14 A3
MODIFIED VEHICLE POWER
37
YE
30
FUEL PUMP RELAY
BATTERY JUNCTION BOX
151-10 F9
37
YE
C145
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
WITH 4WABS ONLY
37
YE
7.3L DIESEL
30
IDM RELAY
BATTERY JUNCTION BOX
151-10 F9
22
LB/BK
37
YE
151-10 B10
C234M
C234F
S225
ELECTRONIC BRAKE
C244M
C244F
G
TO C240 DIA. 13-15
H
TO C240 DIA. 13-15

Diagram 13-8

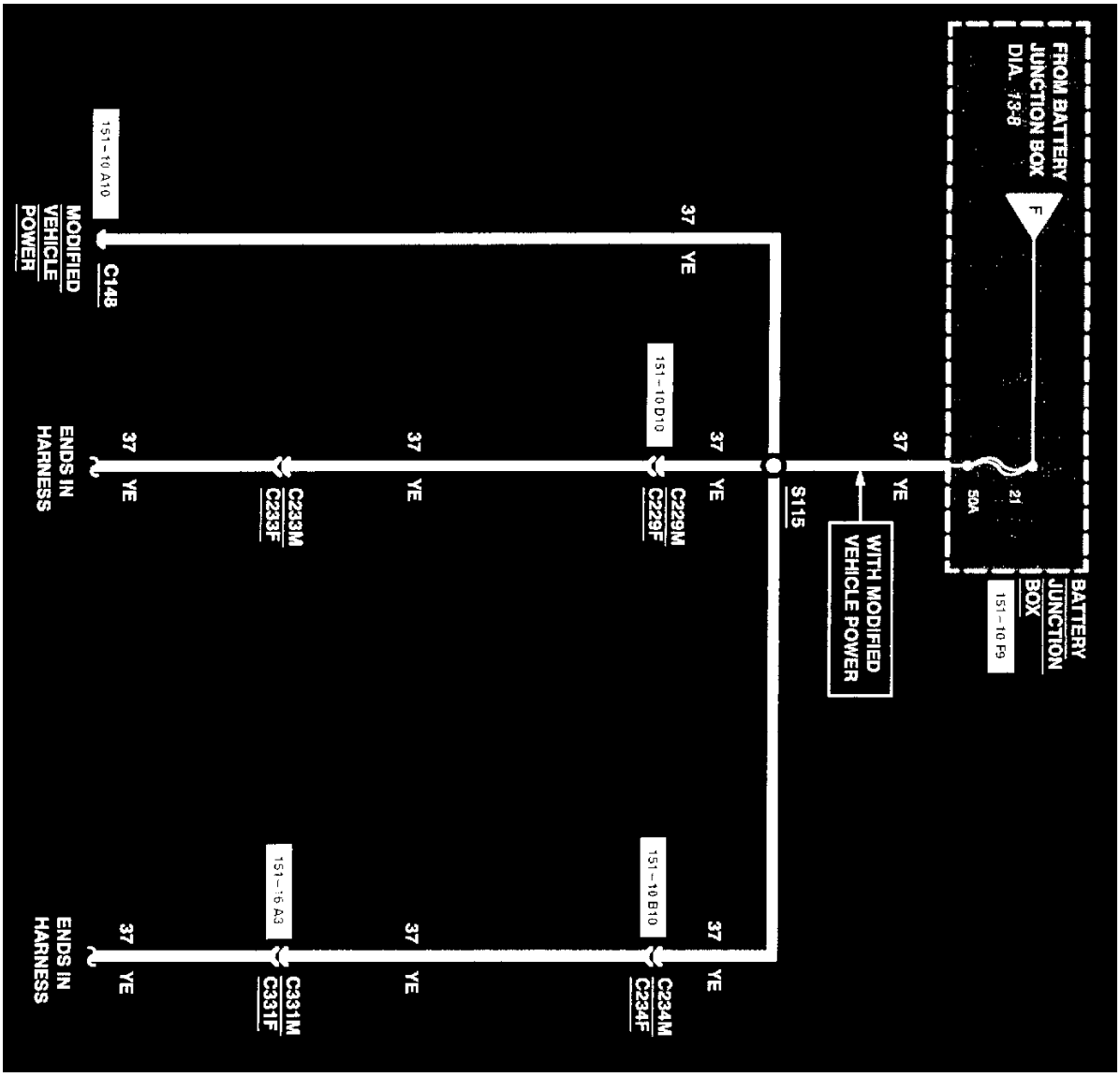

FROM BATTERY JUNCTION BOX DIA. 13-8
F
21
50A
BATTERY JUNCTION BOX
151-10 F9
WITH MODIFIED VEHICLE POWER
S115
37
YE
151-10 A10
MODIFIED VEHICLE POWER
C148
151-10 D10
C229M
C229F
C233M
C233F
151-16 A3
C331M
C331F
151-10 B10
C234M
C234F
ENDS IN HARNESS

Diagram 13-9

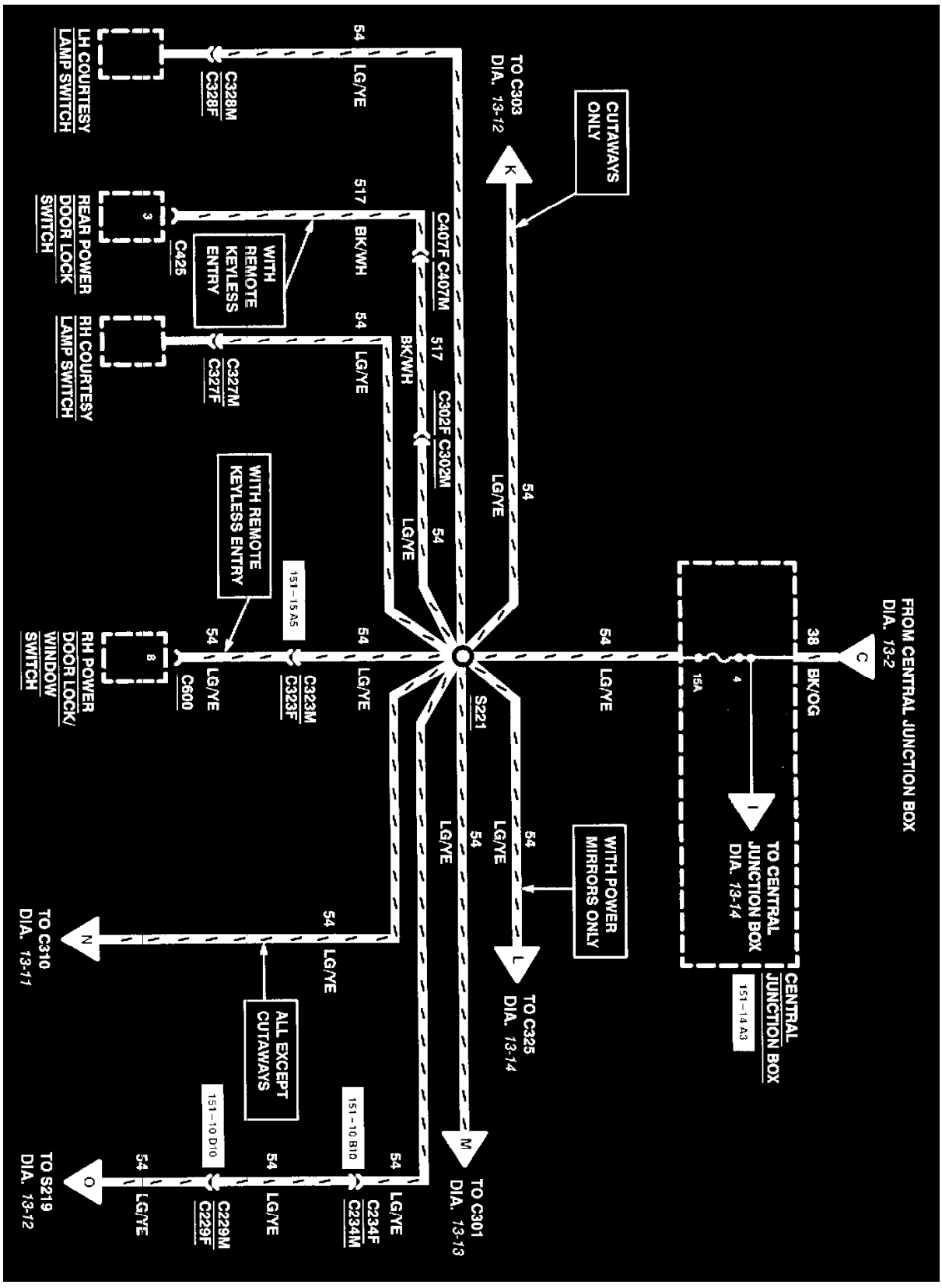


Diagram 13-10

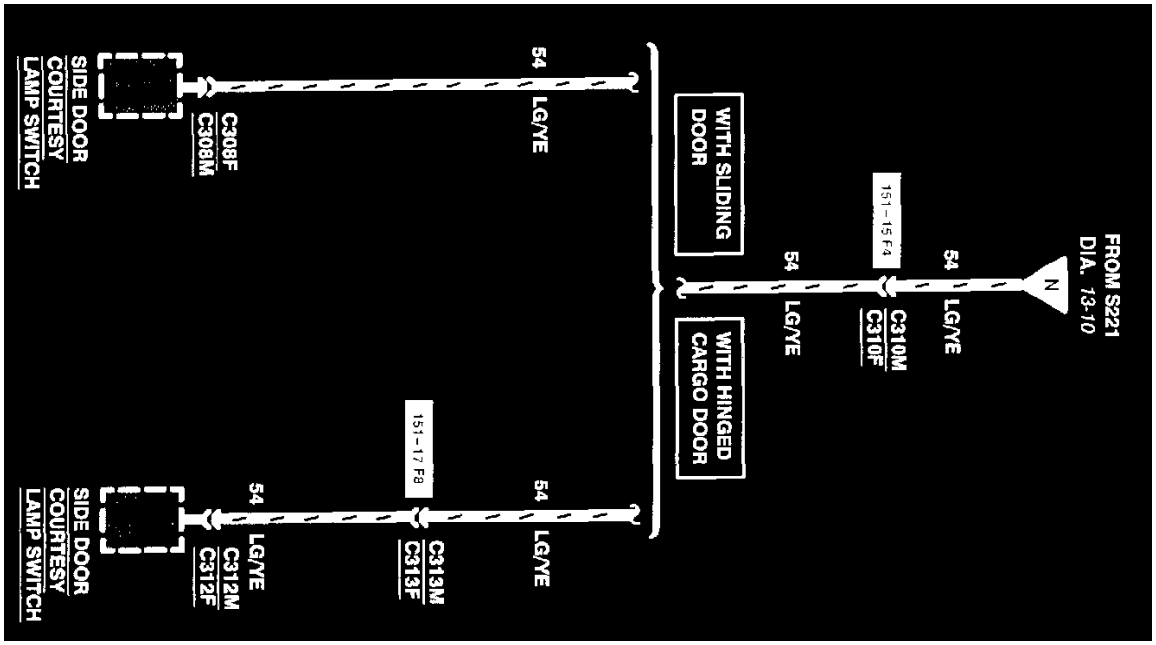


Diagram 13-11

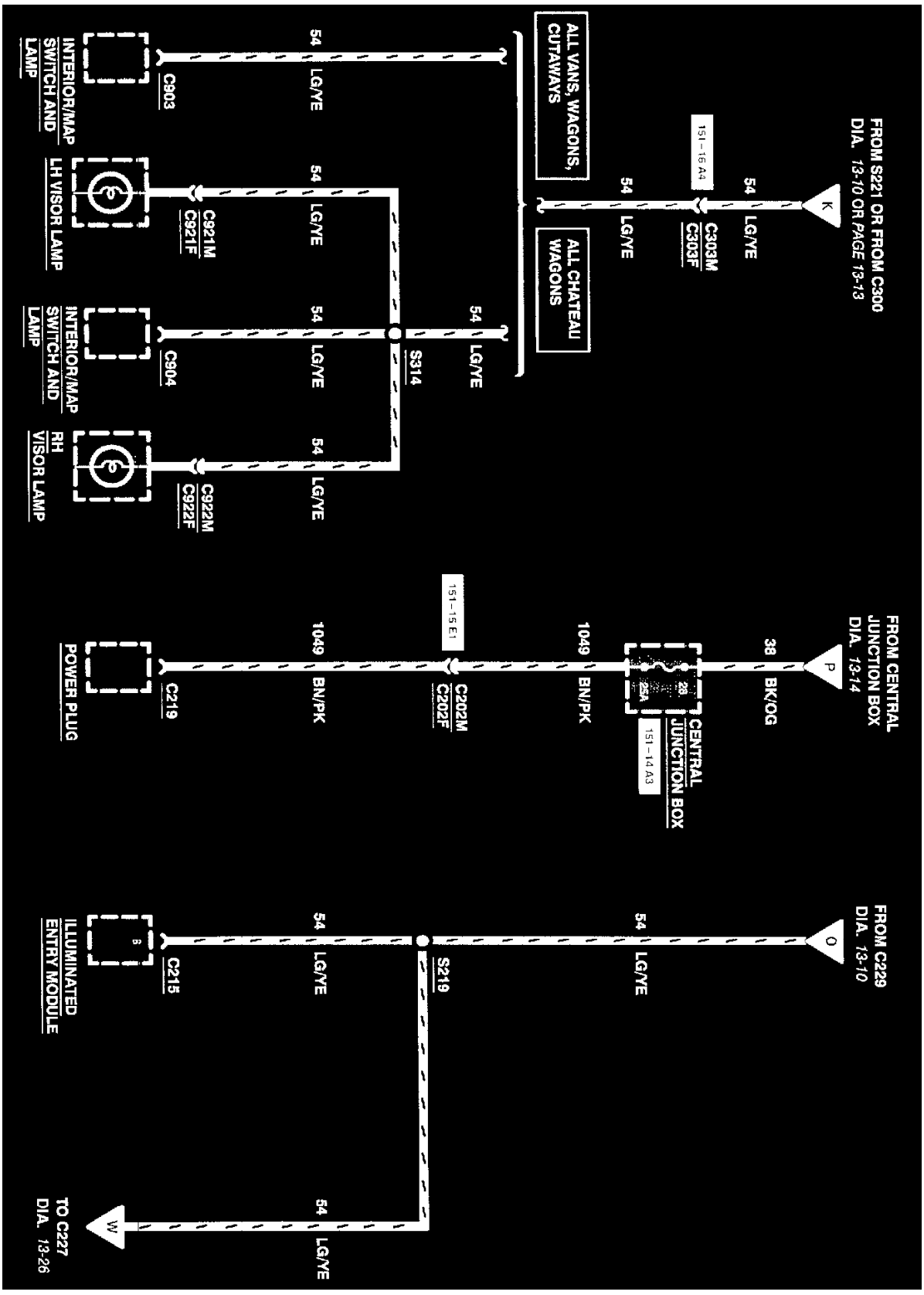


Diagram 13-12

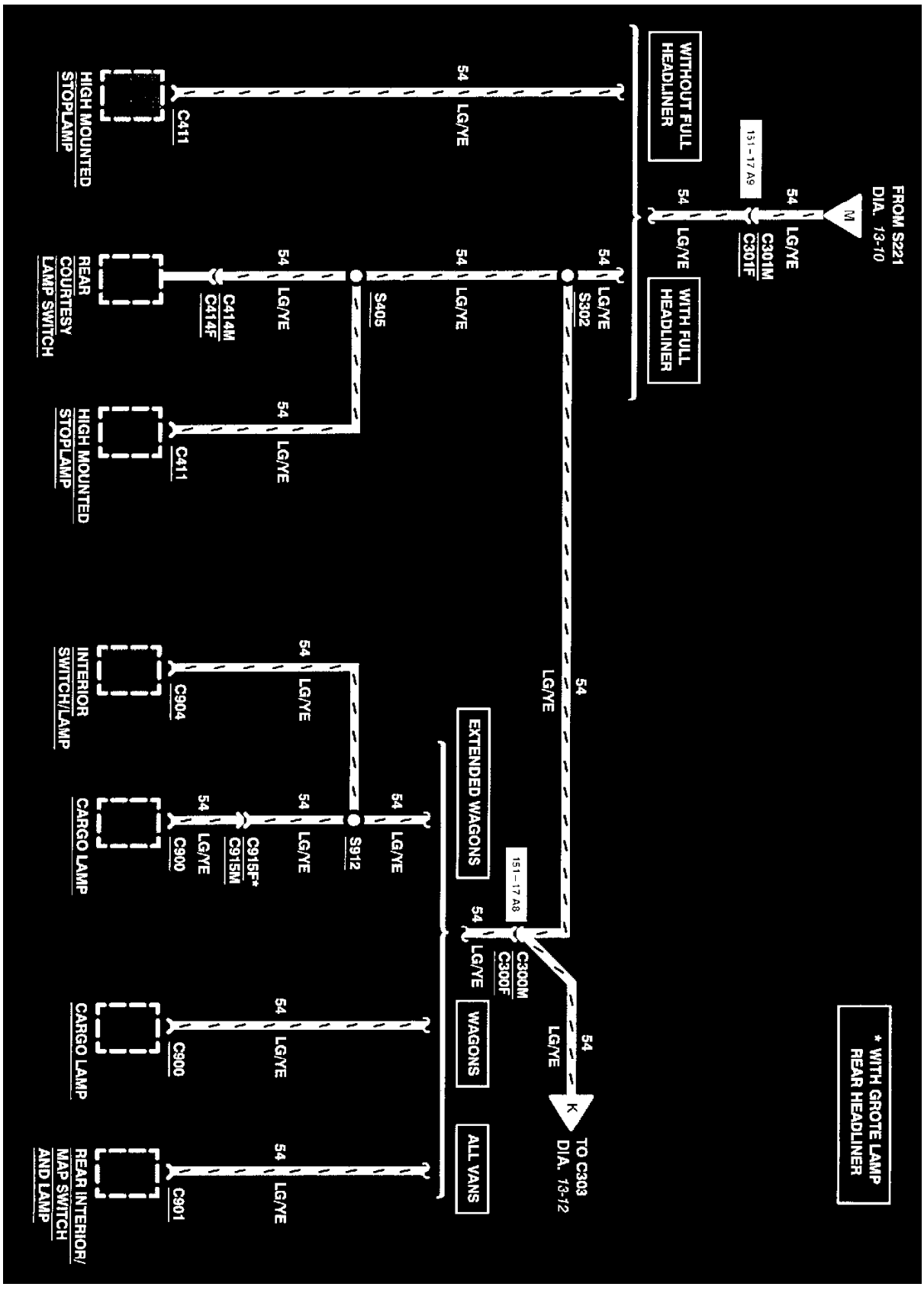


Diagram 13-13

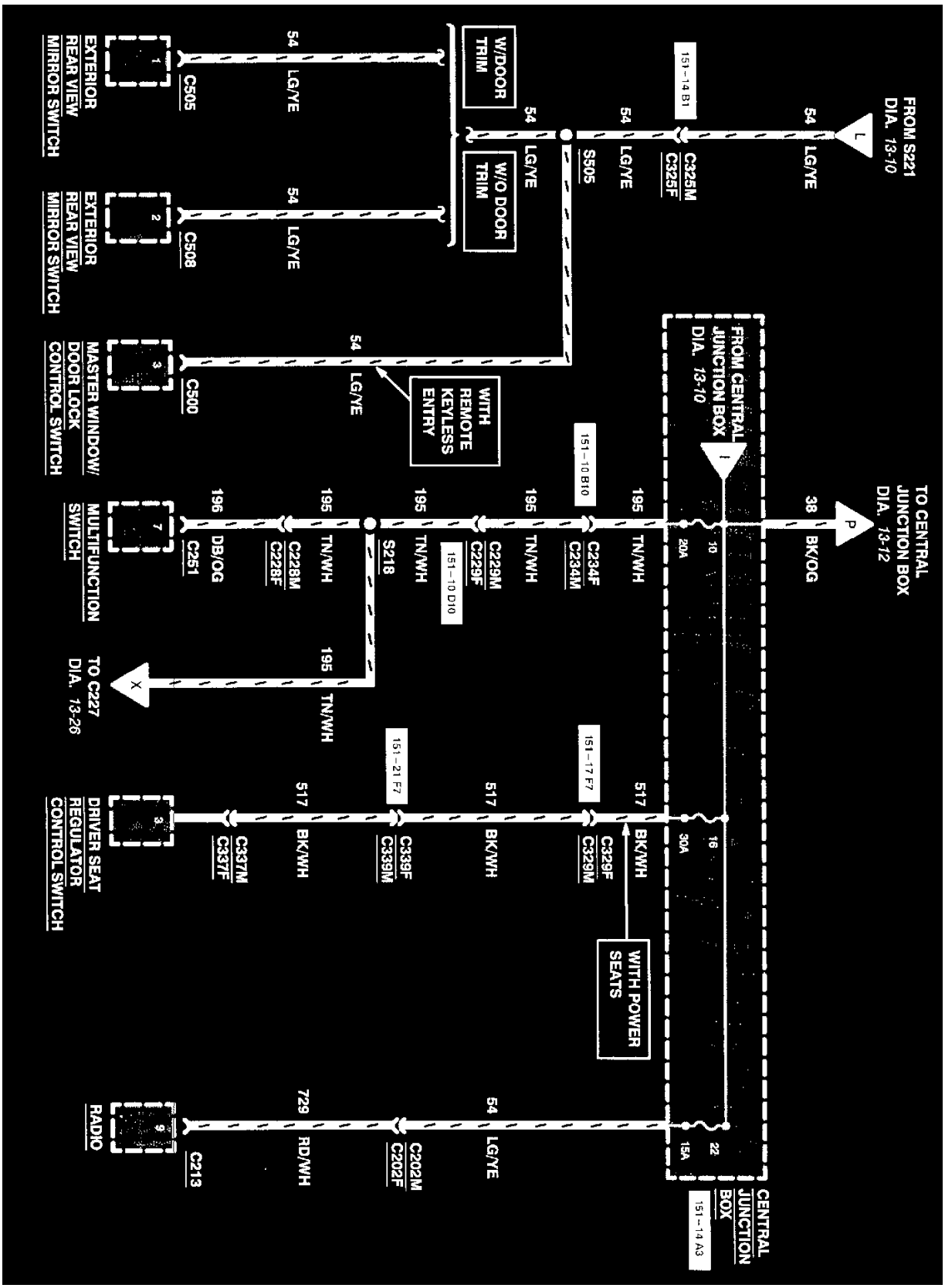


Diagram 13-14

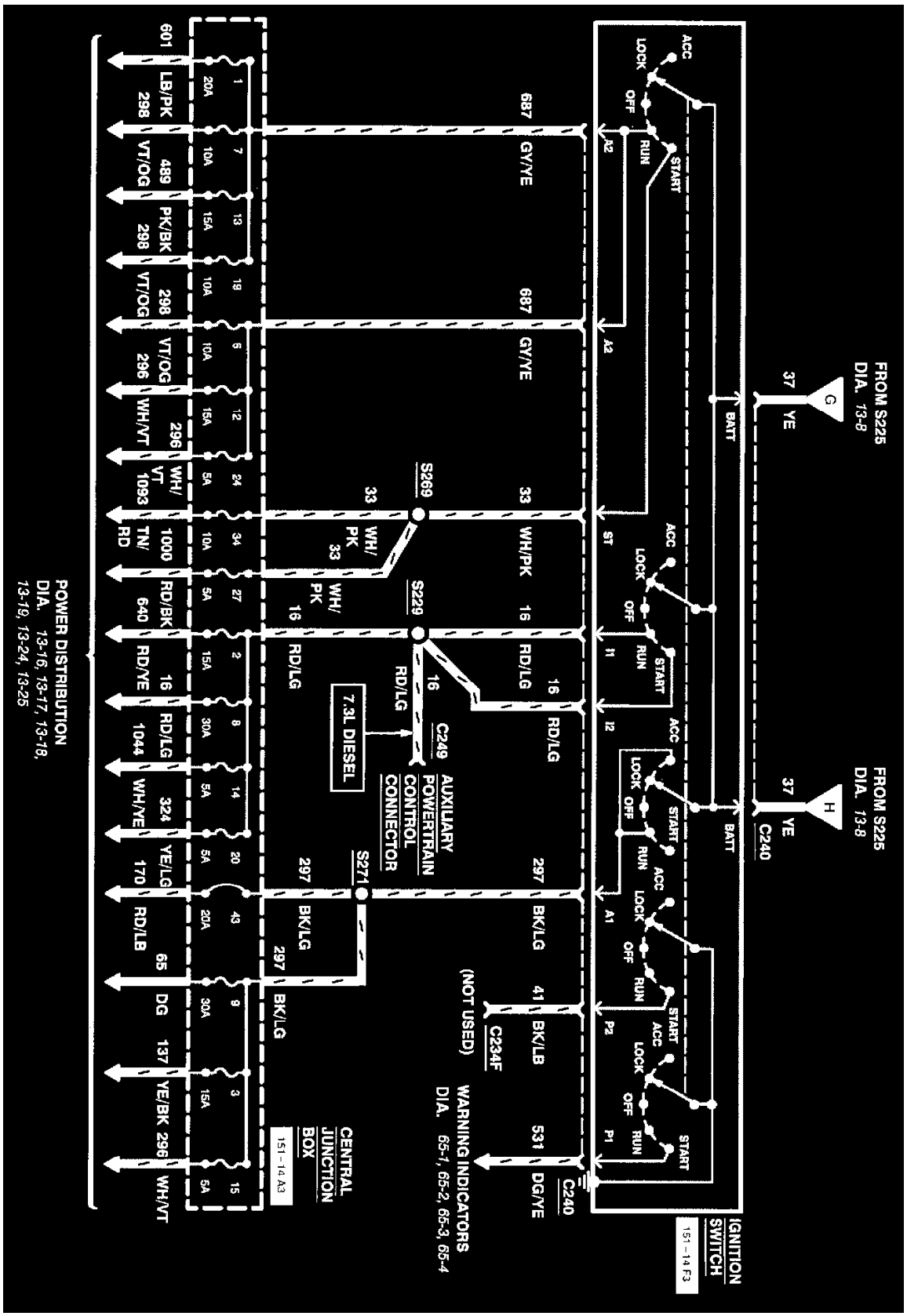


Diagram 13-15

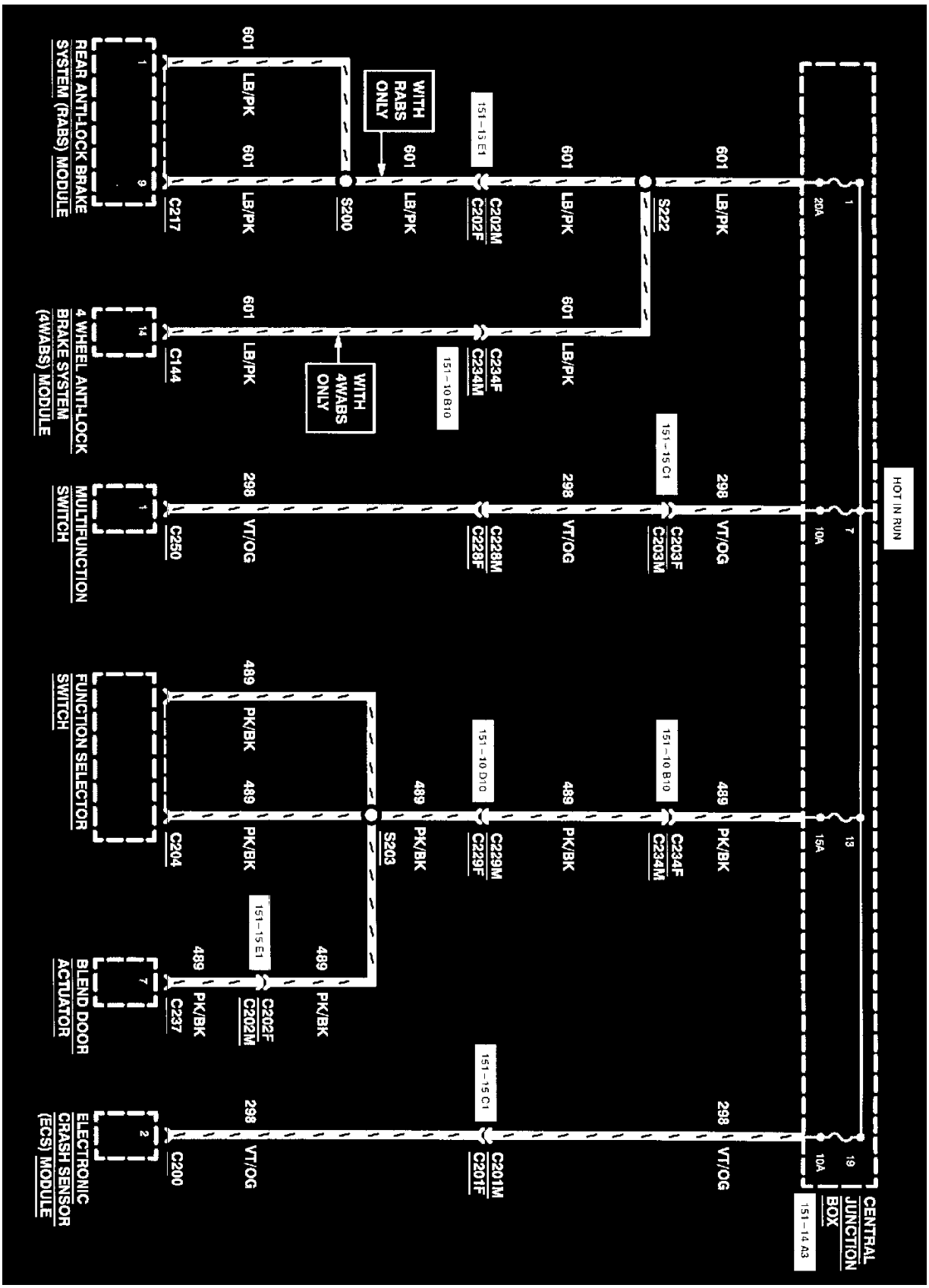


Diagram 13-16

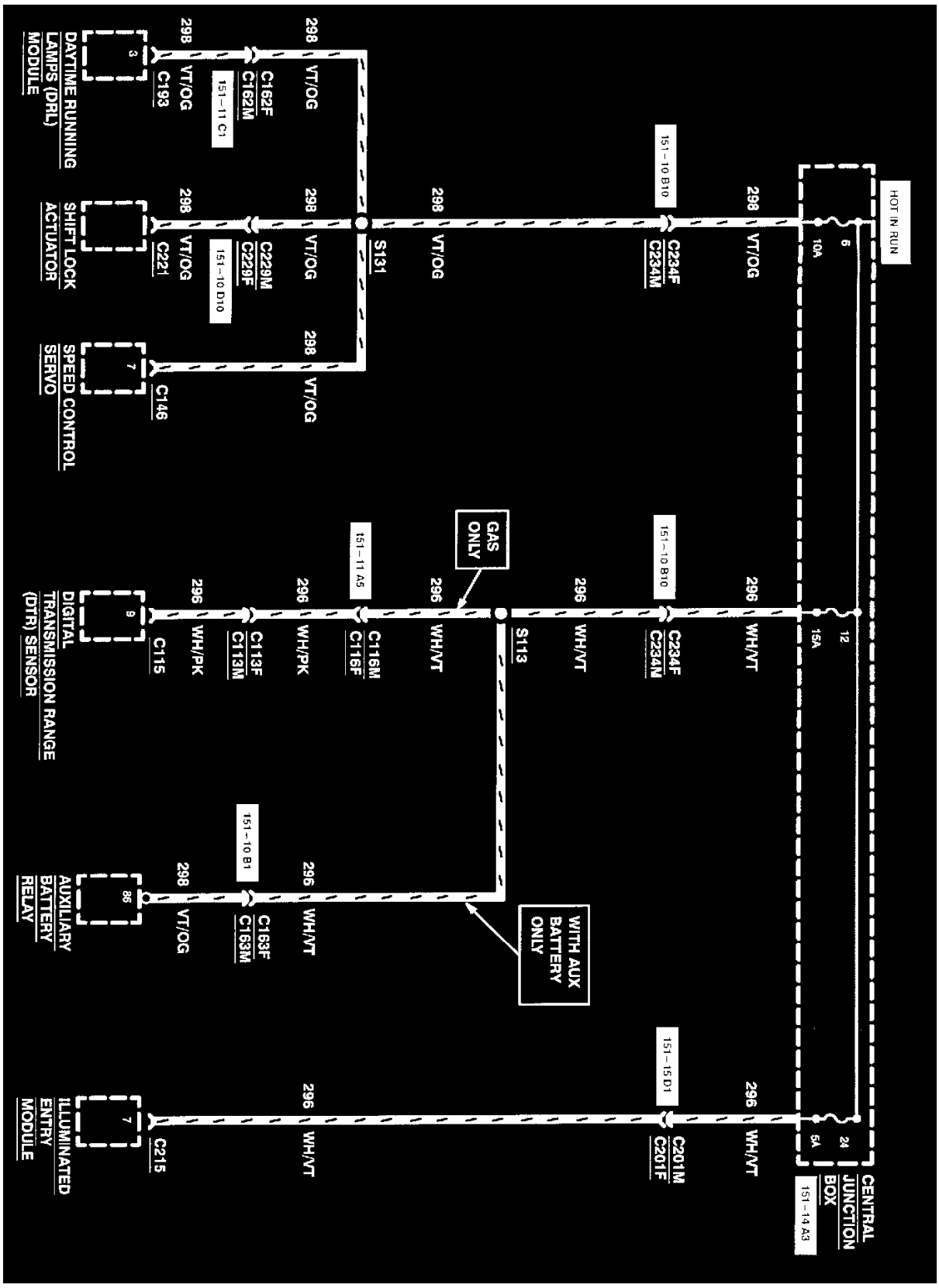


Diagram 13-17

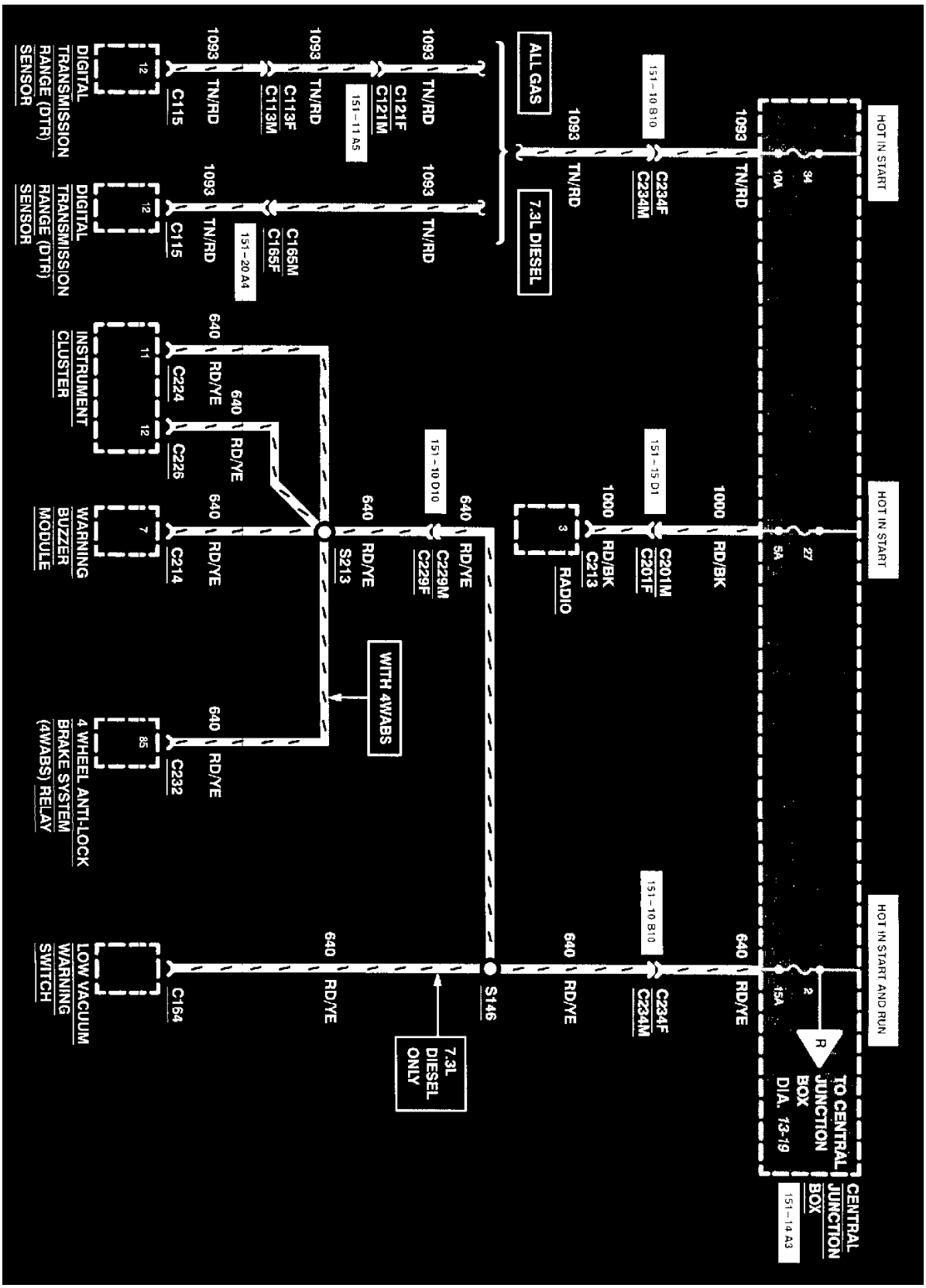


Diagram 13-18

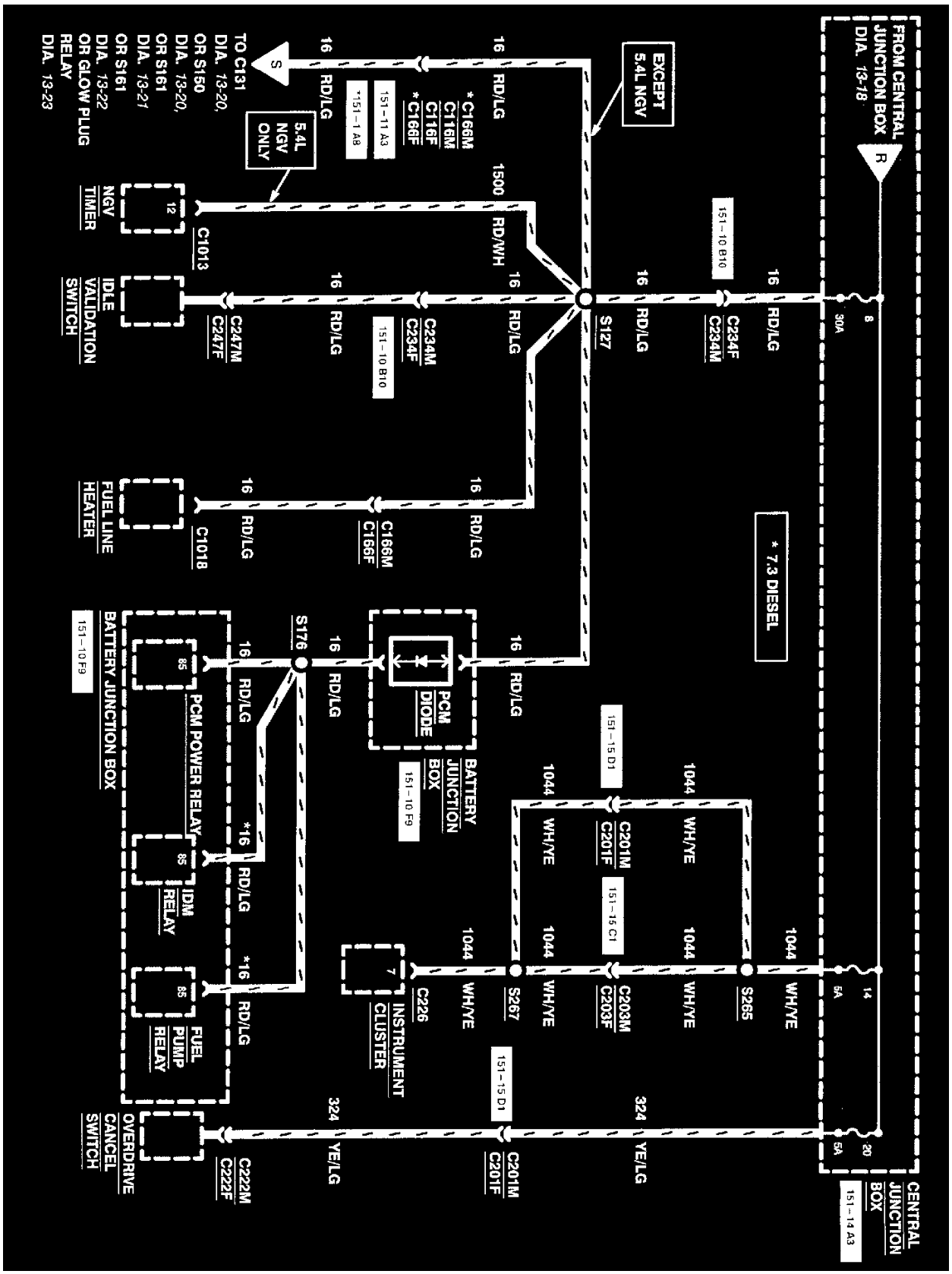


Diagram 13-19



Diagram 13-21

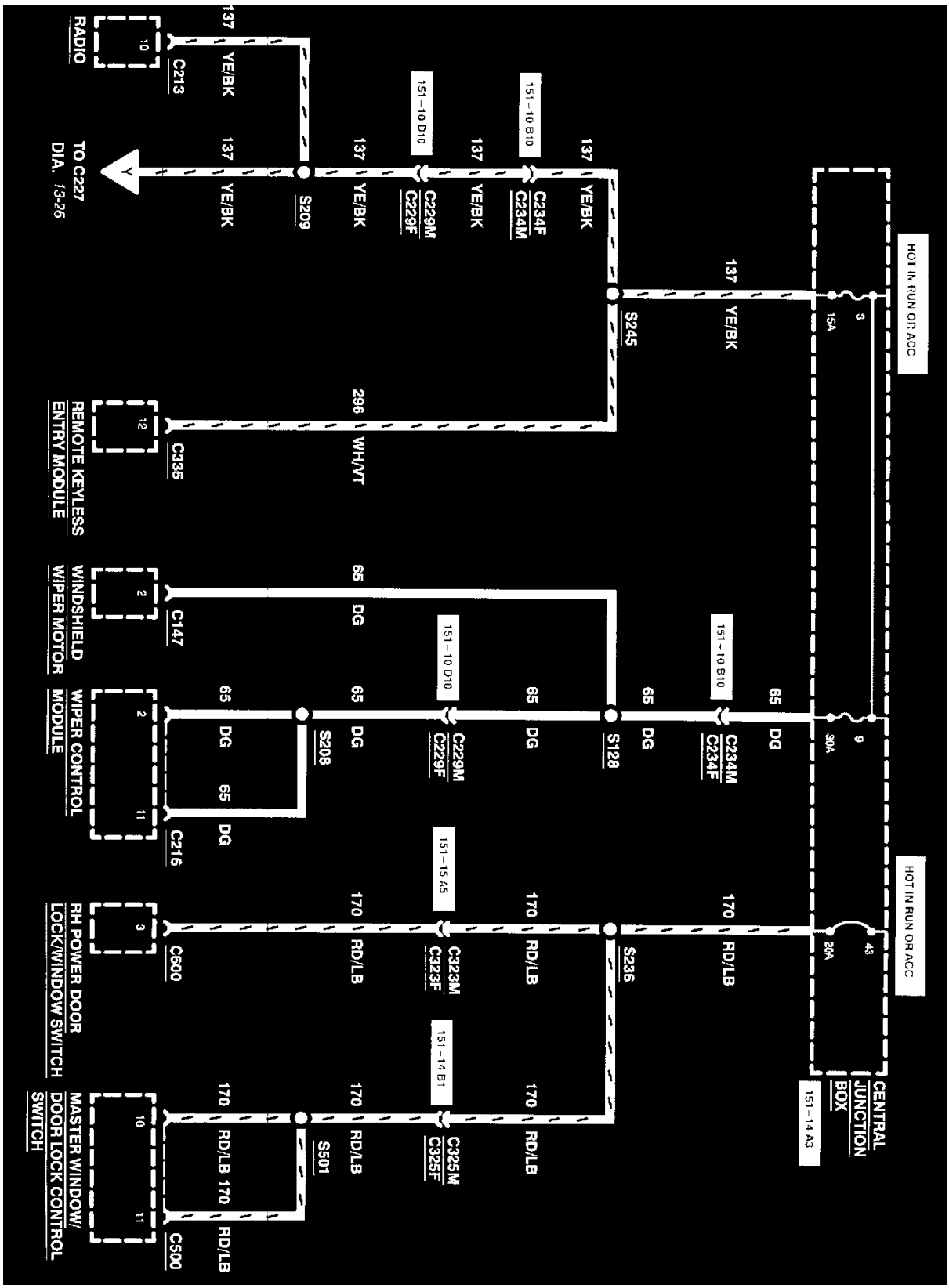


Diagram 13-24

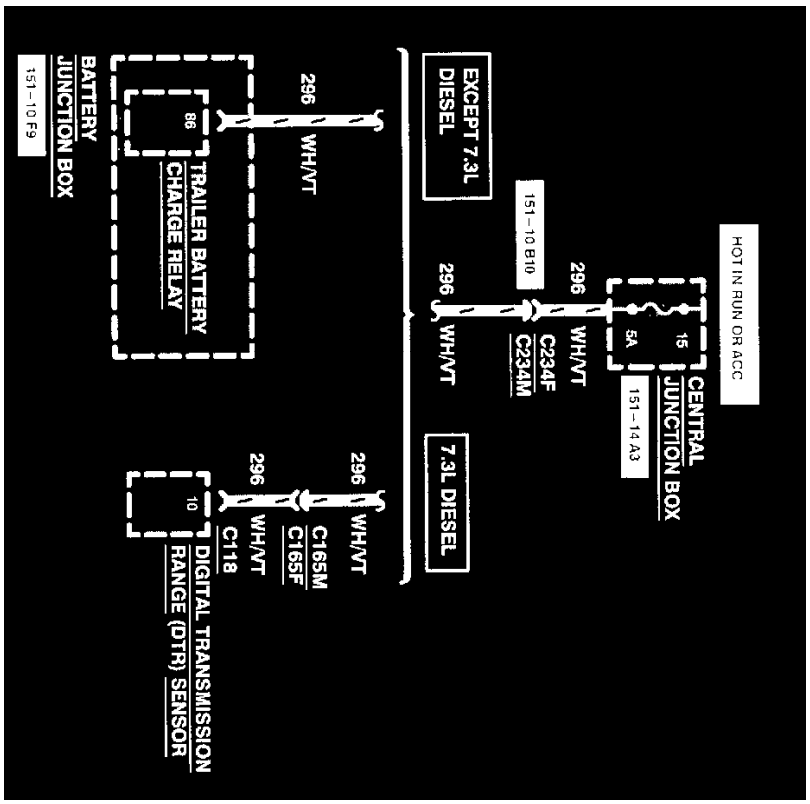


Diagram 13-25

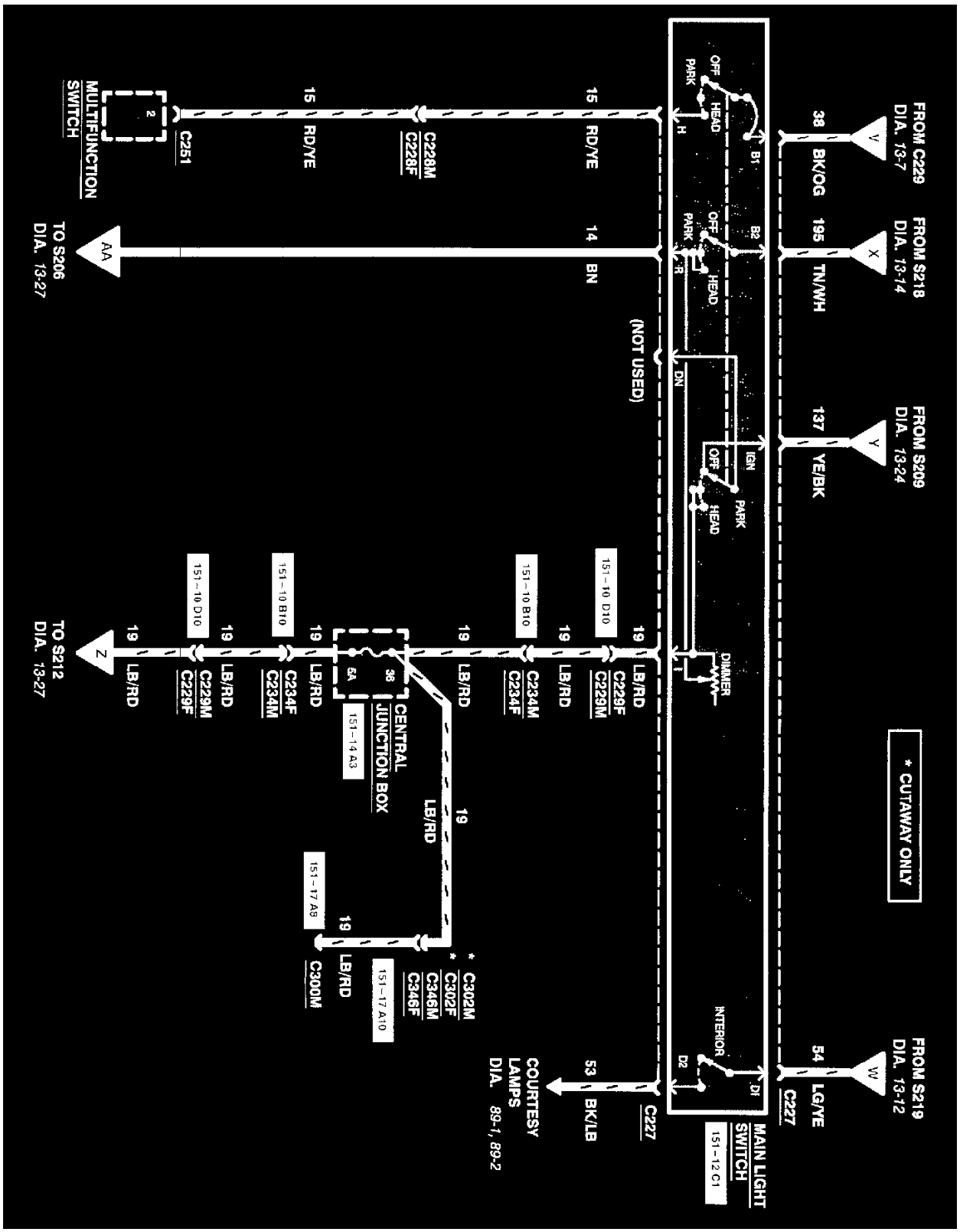


Diagram 13-26

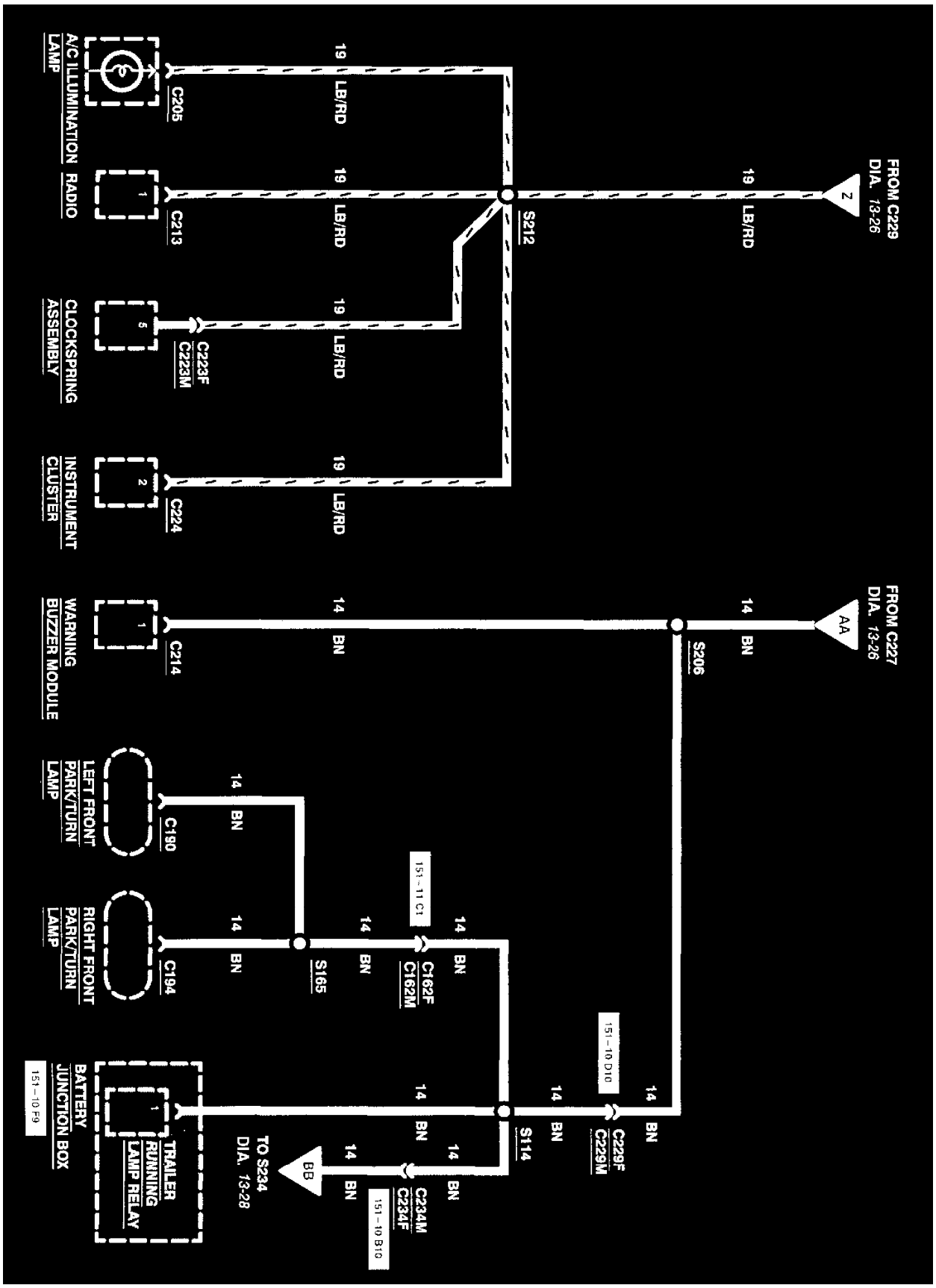


Diagram 13-27

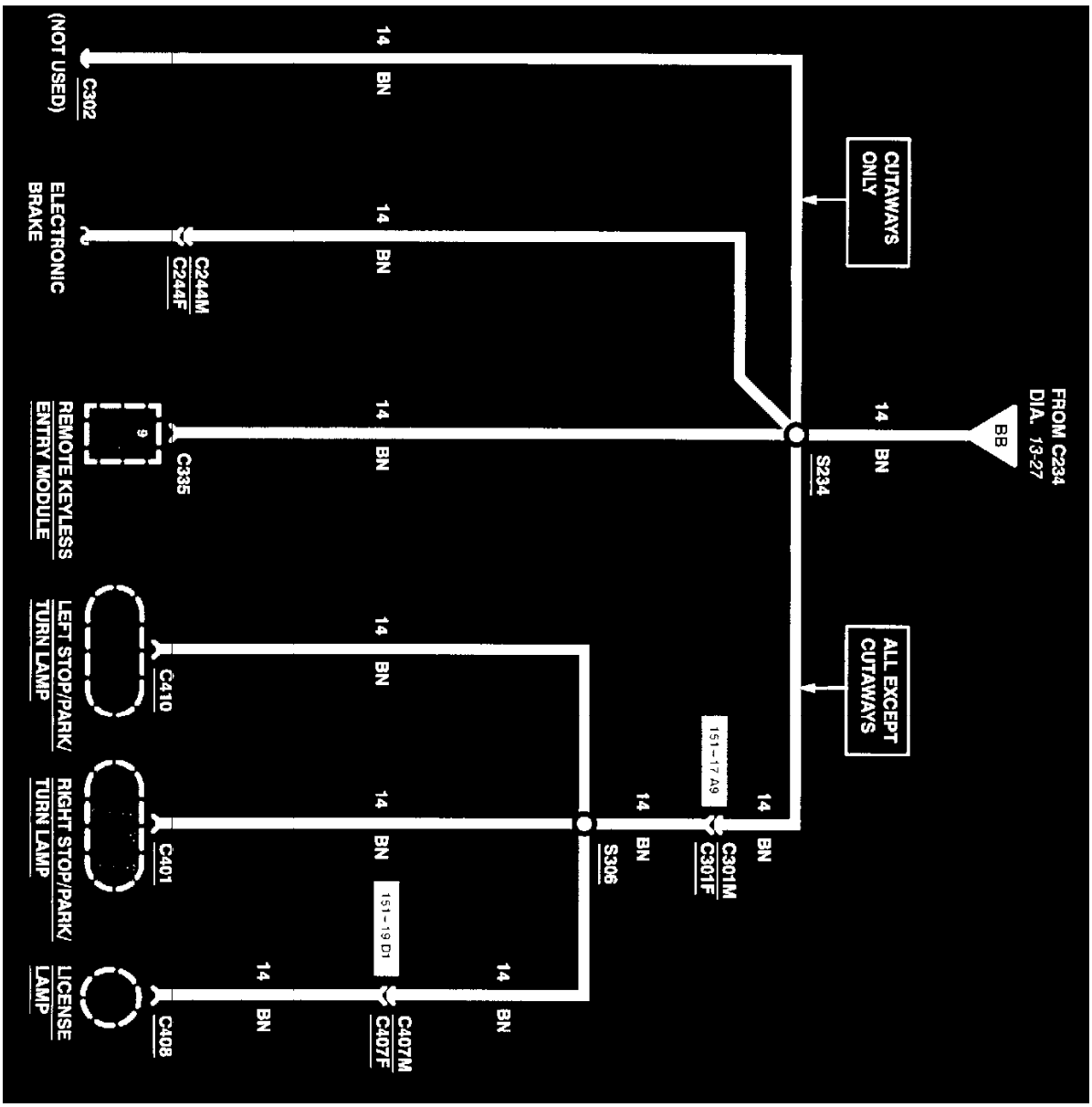


Diagram 13-28

Circuit Breaker

For wiring diagrams, please refer to Starting and Charging/Power and Ground Distribution/Diagrams/Electrical/Power Distribution Diagrams. See: Power and Ground Distribution/Diagrams/Electrical Diagrams

Electrical Accessory Panel

For wiring diagrams, please refer to Starting and Charging/Power and Ground Distribution/Diagrams/Electrical/Power Distribution Diagrams. See: Power and Ground Distribution/Diagrams/Electrical Diagrams

Fuse

See: Electrical Diagrams/Power and Ground Distribution/System Diagram/Power Distribution Diagrams

Fuse Block

See: Electrical Diagrams/Power and Ground Distribution/System Diagram/Power Distribution Diagrams

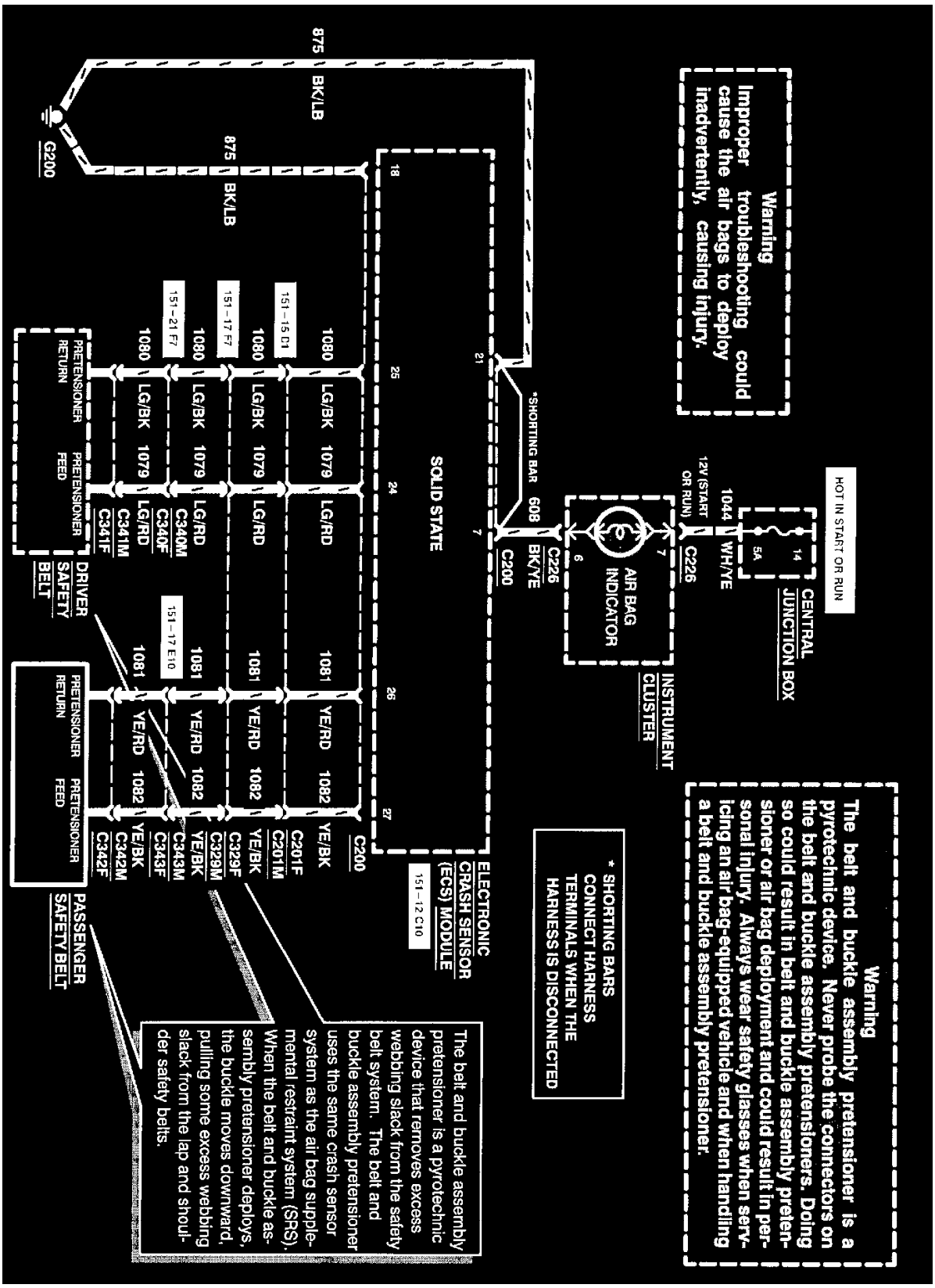

Warning
Improper troubleshooting could cause the air bags to deploy inadvertently, causing injury.
HOT IN START OR RUN
CENTRAL JUNCTION BOX
14
5A
1044 WH/YE
12V (START OR RUN)
C226
7
AIR BAG INDICATOR
6
C226 BK/YE
INSTRUMENT CLUSTER
*SHORTING BAR
608
C200
7
21
25
24
26
27
SOLID STATE
ELECTRONIC CRASH SENSOR (ECS) MODULE
151-12 C10
C200
875 BK/LB
G200
875 BK/LB
1080 LG/BK 1079 LG/RD 1081 YE/RD 1082 YE/BK C201F C201M
151-15 D1
1080 LG/BK 1079 LG/RD 1081 YE/RD 1082 YE/BK C329F C329M
151-17 F7
1080 LG/BK 1079 LG/RD C340M C340F
151-21 F7
1081 YE/RD 1082 YE/BK C343M C343F
151-17 E10
1080 LG/BK 1079 LG/RD C341M C341F
1081 YE/RD 1082 YE/BK C342M C342F
PRETENSIONER RETURN
PRETENSIONER FEED
DRIVER SAFETY BELT
PASSENGER SAFETY BELT
* SHORTING BARS CONNECT HARNESS TERMINALS WHEN THE HARNESS IS DISCONNECTED
Warning
The belt and buckle assembly pretensioner is a pyrotechnic device. Never probe the connectors on the belt and buckle assembly pretensioners. Doing so could result in belt and buckle assembly pretensioner or air bag deployment and could result in personal injury. Always wear safety glasses when servicing an air bag-equipped vehicle and when handling a belt and buckle assembly pretensioner.
The belt and buckle assembly pretensioner is a pyrotechnic device that removes excess webbing slack from the safety belt system. The belt and buckle assembly pretensioner uses the same crash sensor system as the air bag supplemental restraint system (SRS). When the belt and buckle assembly pretensioner deploys, the buckle moves downward, pulling some excess webbing slack from the lap and shoulder safety belts.

Diagram 46-1

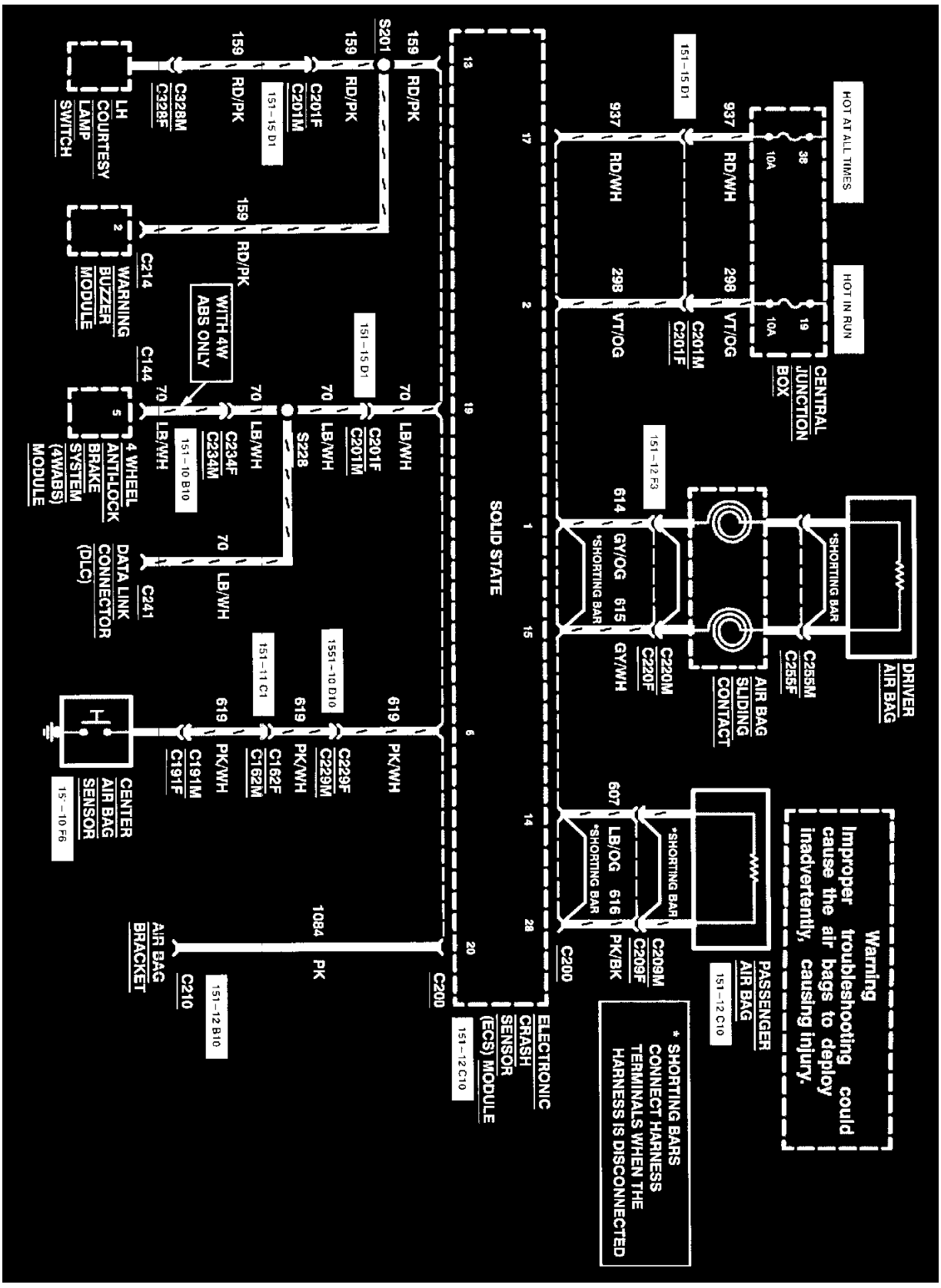


Diagram 46-2

Rear Antilock Brake System (RABS)

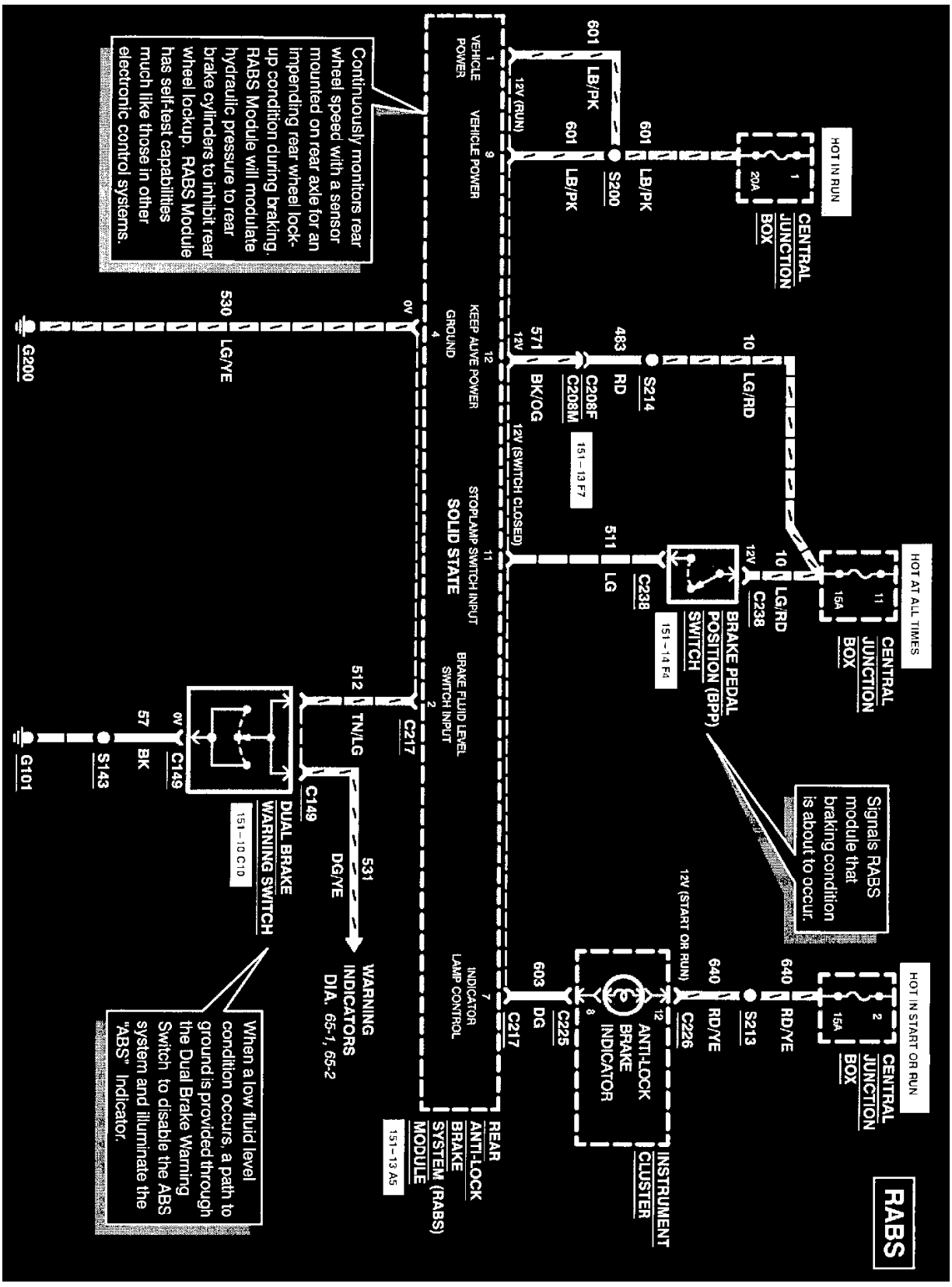

RABS
HOT IN RUN
HOT AT ALL TIMES
HOT IN START OR RUN
CENTRAL JUNCTION BOX
20A
15A
601
LB/PK
S200
12V (RUN)
VEHICLE POWER
LG/RD
C238
BRAKE PEDAL POSITION (BPP) SWITCH
151 – 14 F4
511
LG
12V (SWITCH CLOSED)
STOPLAMP SWITCH INPUT
483
RD
C208F
C208M
151 – 13 F7
571
BK/OG
640
RD/YE
S213
S214
C226
C225
ANT-LOCK BRAKE INDICATOR
INSTRUMENT CLUSTER
12V (START OR RUN)
603
DG
C217
INDICATOR LAMP CONTROL
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
151 – 13 A5
KEEP ALIVE POWER
GROUND
530
LG/YE
G200
0V
512
TN/LG
BRAKE FLUID LEVEL SWITCH INPUT
C149
DUAL BRAKE WARNING SWITCH
151 – 10 C10
531
DG/YE
WARNING INDICATORS DIA. 65-1, 65-2
57
BK
S143
G101
Continuously monitors rear wheel speed with a sensor mounted on rear axle for an impending rear wheel lock-up condition during braking. RABS Module will modulate hydraulic pressure to rear brake cylinders to inhibit rear wheel lockup. RABS Module has self-test capabilities much like those in other electronic control systems.
Signals RABS module that braking condition is about to occur.
When a low fluid level condition occurs, a path to ground is provided through the Dual Brake Warning Switch to disable the ABS system and illuminate the "ABS" Indicator.

Diagram 42-1

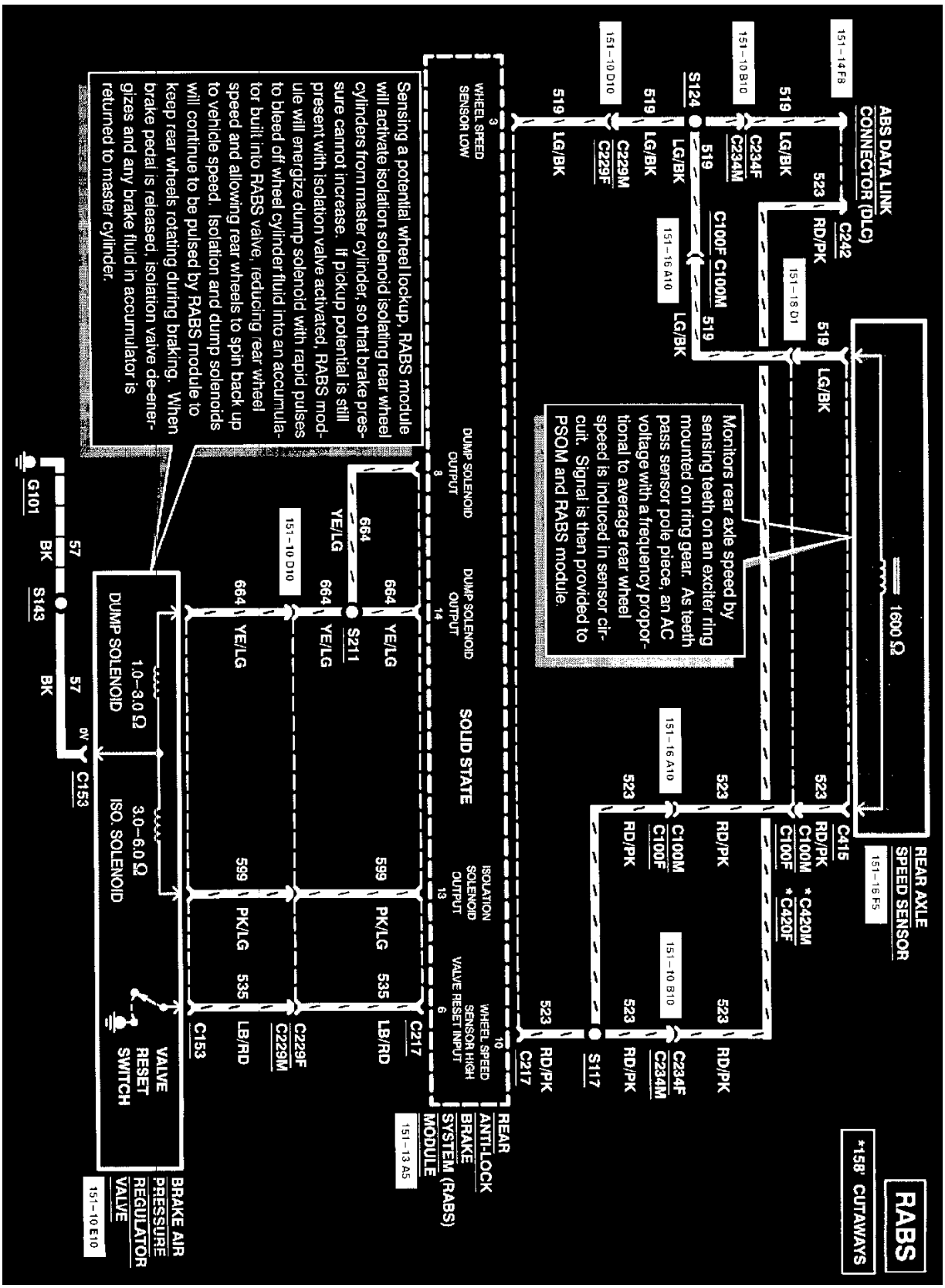


Diagram 42-2

4 Wheel Anti-Lock Brakes (4WABS)

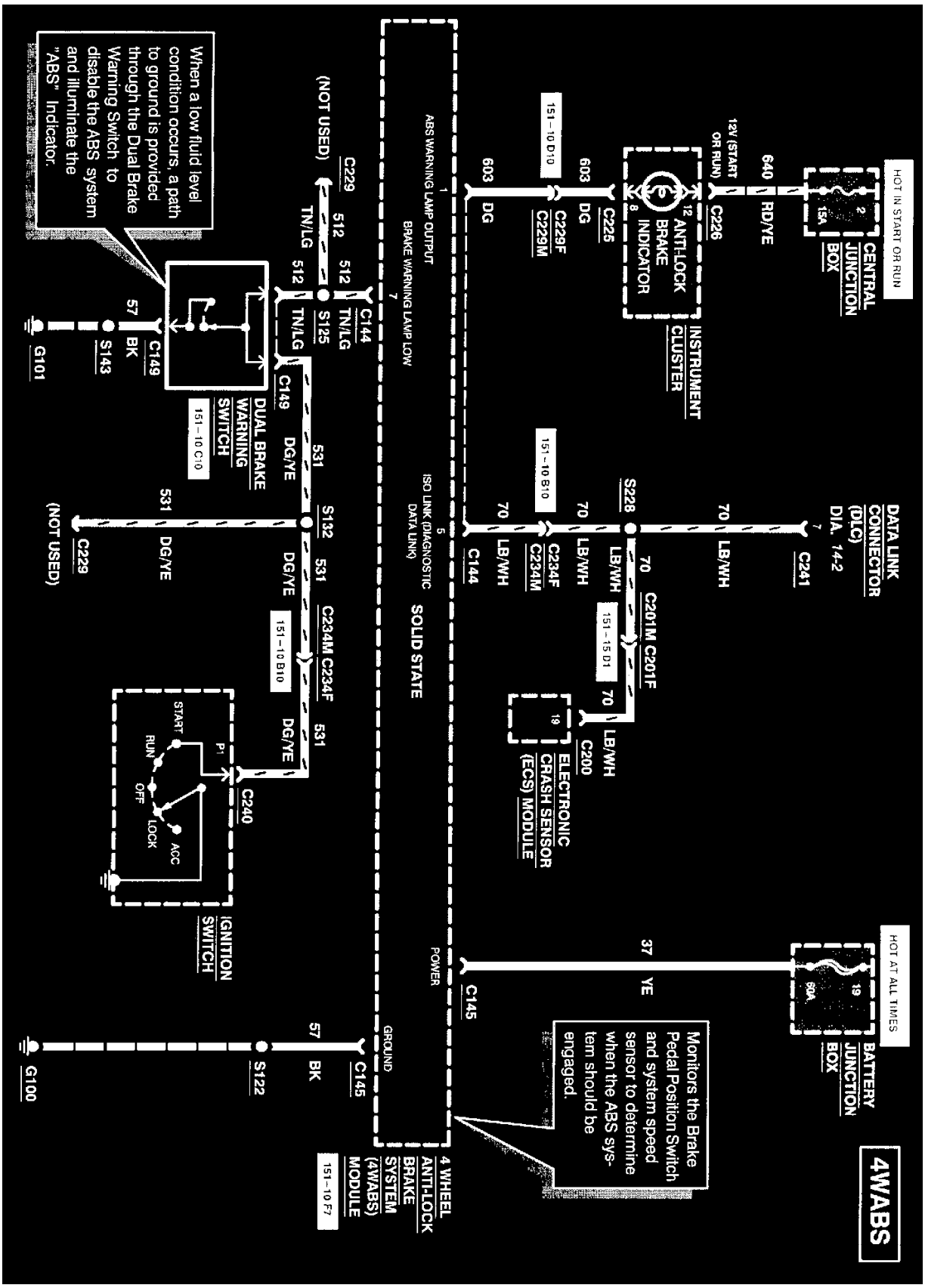

4WABS
HOT IN START OR RUN
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
BATTERY JUNCTION BOX
DATA LINK CONNECTOR (DLC) DIA. 14-2
INSTRUMENT CLUSTER
ANTI-LOCK BRAKE INDICATOR
DUAL BRAKE WARNING SWITCH
ELECTRONIC CRASH SENSOR (ECS) MODULE
IGNITION SWITCH
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
SOLID STATE
POWER
GROUND
ABS WARNING LAMP OUTPUT
BRAKE WARNING LAMP LOW
ISO LINK (DIAGNOSTIC DATA LINK)
12V (START OR RUN)
640 RD/YE
603 DG
603 DG
603 DG
70 LB/WH
70 LB/WH
70 LB/WH
70 LB/WH
531 DG/YE
531 DG/YE
531 DG/YE
531 DG/YE
512 TN/LG
512 TN/LG
512 TN/LG
37 YE
57 BK
57 BK
(NOT USED)
(NOT USED)
When a low fluid level condition occurs, a path to ground is provided through the Dual Brake Warning Switch to disable the ABS system and illuminate the "ABS" Indicator.
Monitors the Brake Pedal Position Switch and system speed sensor to determine when the ABS system should be engaged.
START
RUN
OFF
LOCK
ACC
P1

Diagram 42-3

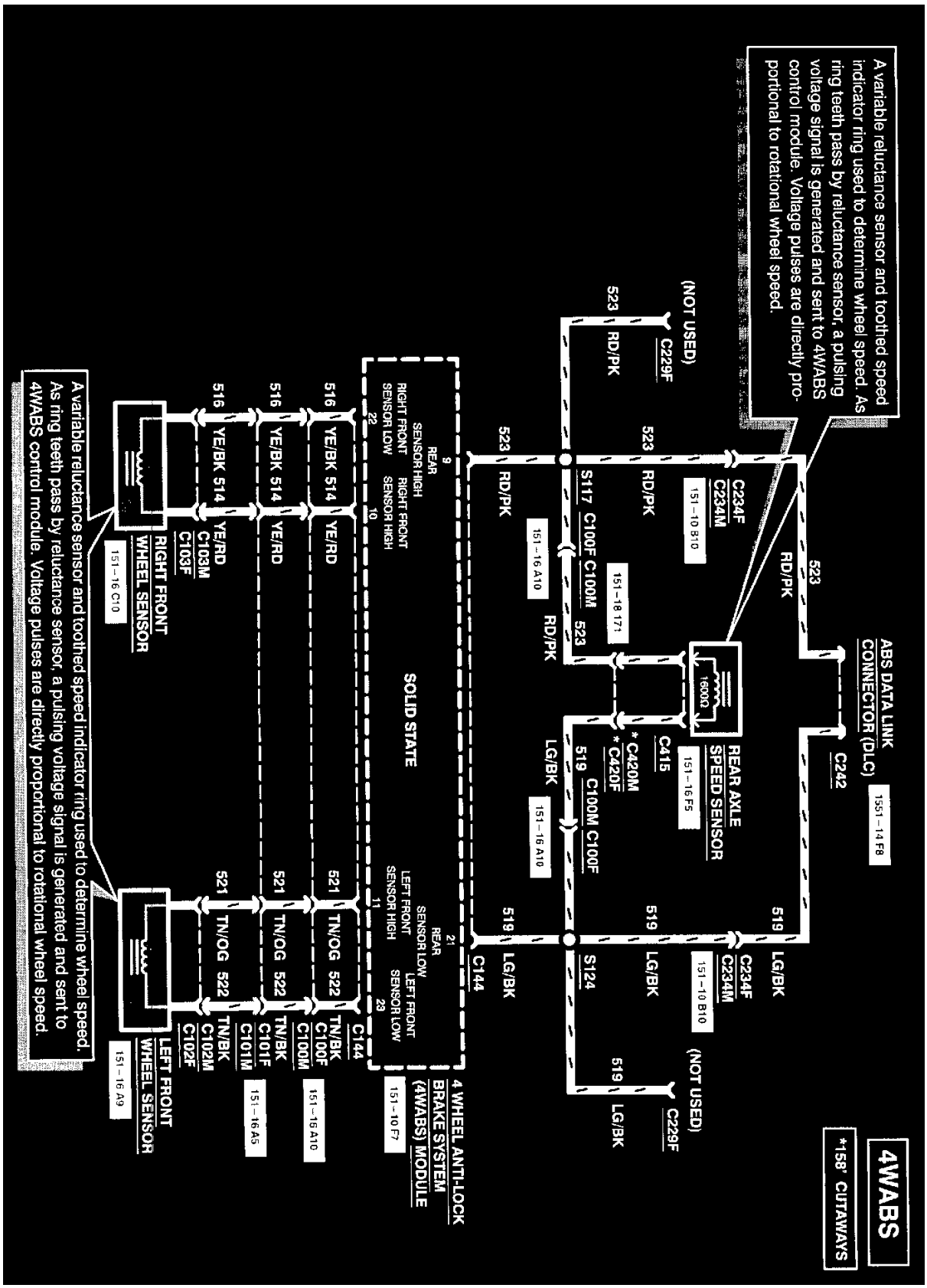

4WABS
*158" CUTAWAYS
A variable reluctance sensor and toothed speed indicator ring used to determine wheel speed. As ring teeth pass by reluctance sensor, a pulsing voltage signal is generated and sent to 4WABS control module. Voltage pulses are directly proportional to rotational wheel speed.
ABS DATA LINK CONNECTOR (DLC)
C242
151-14 F8
523
RD/PK
519
LG/BK
C234F
C234M
151-10 B10
(NOT USED)
C229F
REAR AXLE SPEED SENSOR
1600Ω
151-16 F5
C415
* C420M
* C420F
C100M C100F
S124
S117
151-18 I7
151-16 A10
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
151-10 F7
C144
SOLID STATE
REAR SENSOR HIGH
RIGHT FRONT SENSOR LOW
RIGHT FRONT SENSOR HIGH
REAR SENSOR LOW
LEFT FRONT SENSOR LOW
LEFT FRONT SENSOR HIGH
YE/BK 514
YE/RD
YE/BK 514
YE/RD
TN/OG 522
TN/BK C100F
C100M
TN/OG 522
TN/BK C101F
C101M
YE/BK 514
YE/RD C103M
C103F
TN/OG 522
TN/BK C102M
C102F
RIGHT FRONT WHEEL SENSOR
151-16 C10
LEFT FRONT WHEEL SENSOR
151-16 A9
151-16 A10
151-16 A5
A variable reluctance sensor and toothed speed indicator ring used to determine wheel speed. As ring teeth pass by reluctance sensor, a pulsing voltage signal is generated and sent to 4WABS control module. Voltage pulses are directly proportional to rotational wheel speed.

Diagram 42-4

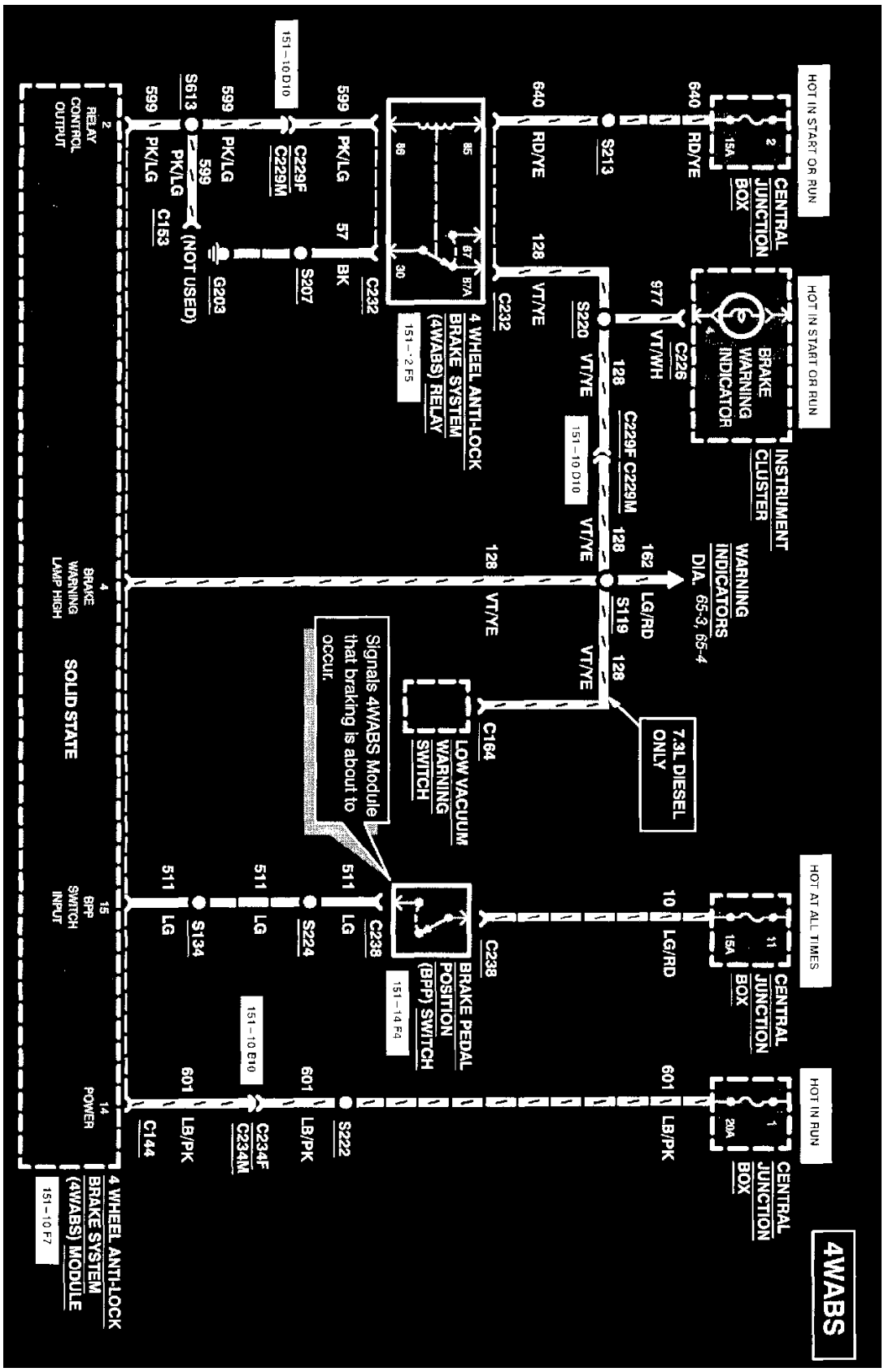


Diagram 42-5

Brake Fluid Level Sensor/Switch

For electrical diagram information please refer to See: Electrical Diagrams/Antilock Brakes / Traction Control Systems/4 Wheel Anti-Lock Brakes (4WABS)

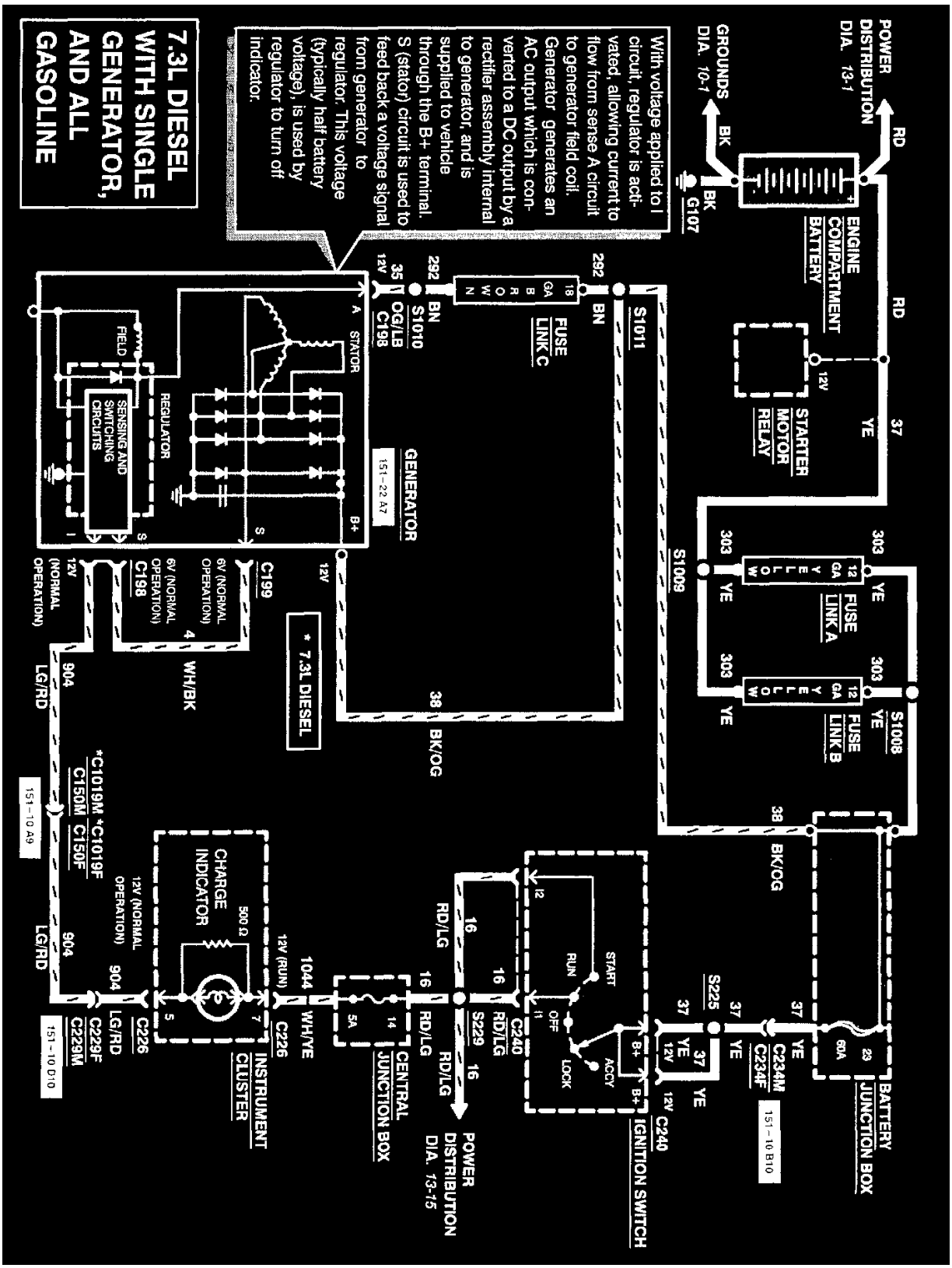

7.3L DIESEL WITH SINGLE GENERATOR, AND ALL GASOLINE
With voltage applied to I circuit, regulator is activated, allowing current to flow from sense A circuit to generator field coil. Generator generates an AC output which is converted to a DC output by a rectifier assembly internal to generator, and is supplied to vehicle through the B+ terminal. S (stator) circuit is used to feed back a voltage signal from generator to regulator. This voltage (typically half battery voltage), is used by regulator to turn off indicator.
POWER DISTRIBUTION DIA. 13-1
GROUNDS DIA. 10-1
ENGINE COMPARTMENT
BATTERY
STARTER MOTOR RELAY
FUSE LINK A
FUSE LINK B
FUSE LINK C
BATTERY JUNCTION BOX
IGNITION SWITCH
GENERATOR
REGULATOR
SENSING AND SWITCHING CIRCUITS
STATOR
FIELD
INSTRUMENT CLUSTER
CHARGE INDICATOR
CENTRAL JUNCTION BOX
POWER DISTRIBUTION DIA. 13-15
* 7.3L DIESEL
RD
BK
YE
BN
BK/OG
RD/LG
WH/BK
LG/RD
WH/YE
S1011
S1010
S1009
S1008
S225
S229
C198
C199
C240
C234M
C234F
C150M
C150F
C1019M
C1019F
C226
C229F
C229M
151-22 A7
151-10 A9
151-10 B10
151-10 D10

Diagram 12-1

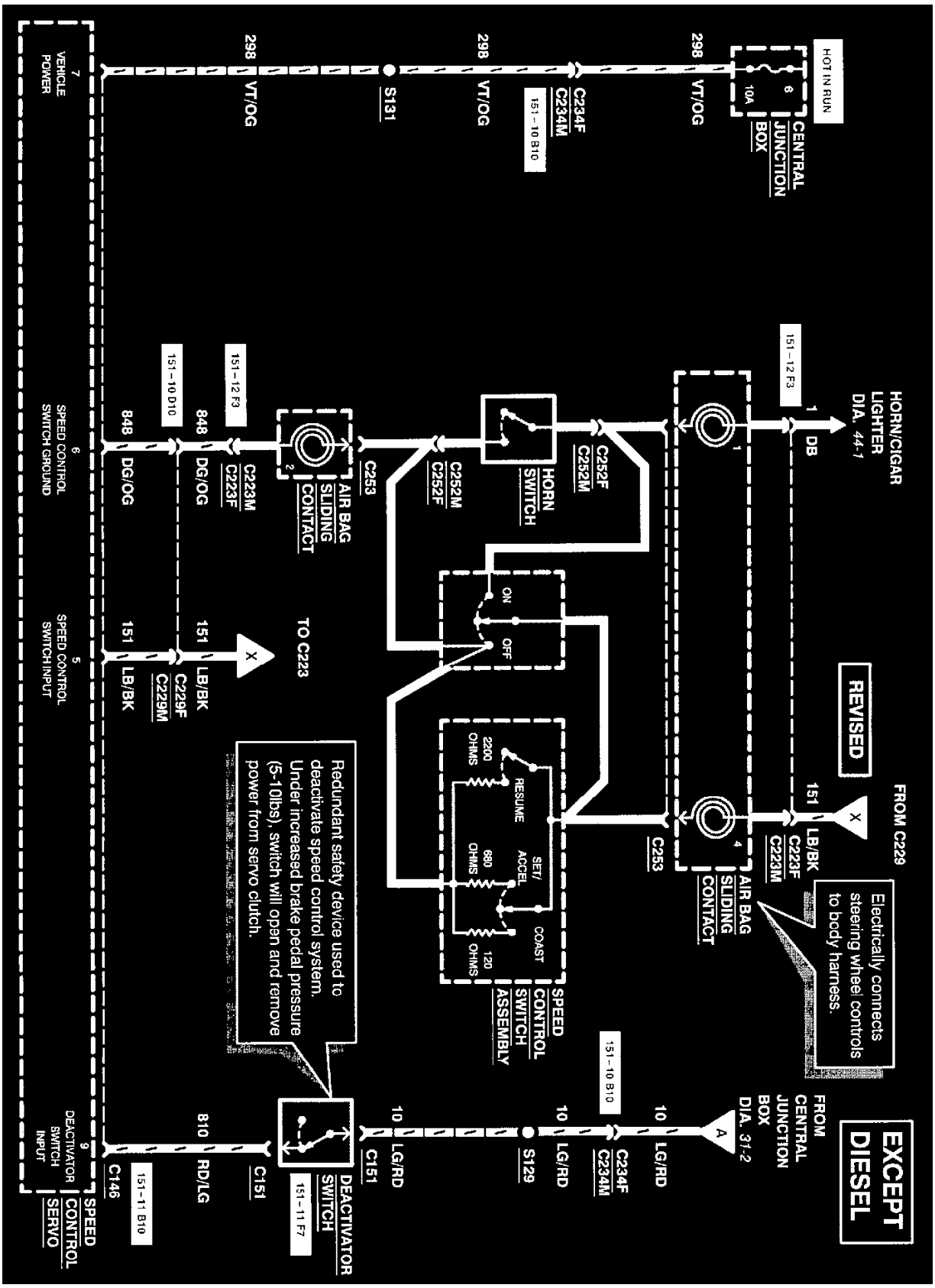

EXCEPT DIESEL
REVISED
HOT IN RUN
CENTRAL JUNCTION BOX
10A
6
298
VT/OG
C234F
C234M
151 – 10 B10
S131
HORN/CIGAR LIGHTER
DIA. 44-1
151 – 12 F3
DB
C252F
C252M
HORN SWITCH
C253
AIR BAG SLIDING CONTACT
FROM C229
LB/BK
C223F
C223M
Electrically connects steering wheel controls to body harness.
FROM CENTRAL JUNCTION BOX
DIA. 31-2
151 – 10 B10
LG/RD
C234F
C234M
S129
SPEED CONTROL SWITCH ASSEMBLY
ON
OFF
RESUME
SET/ ACCEL
COAST
2200 OHMS
680 OHMS
120 OHMS
Redundant safety device used to deactivate speed control system. Under increased brake pedal pressure (5-10lbs), switch will open and remove power from servo clutch.
DEACTIVATOR SWITCH
151 – 11 F7
C151
B10
RD/LG
C146
151 – 11 B10
SPEED CONTROL SERVO
9
DEACTIVATOR SWITCH INPUT
TO C223
848
DG/OG
151 – 10 D10
151
LB/BK
C229F
C229M
5
SPEED CONTROL SWITCH INPUT
6
SPEED CONTROL SWITCH GROUND
7
VEHICLE POWER

Diagram 31-1

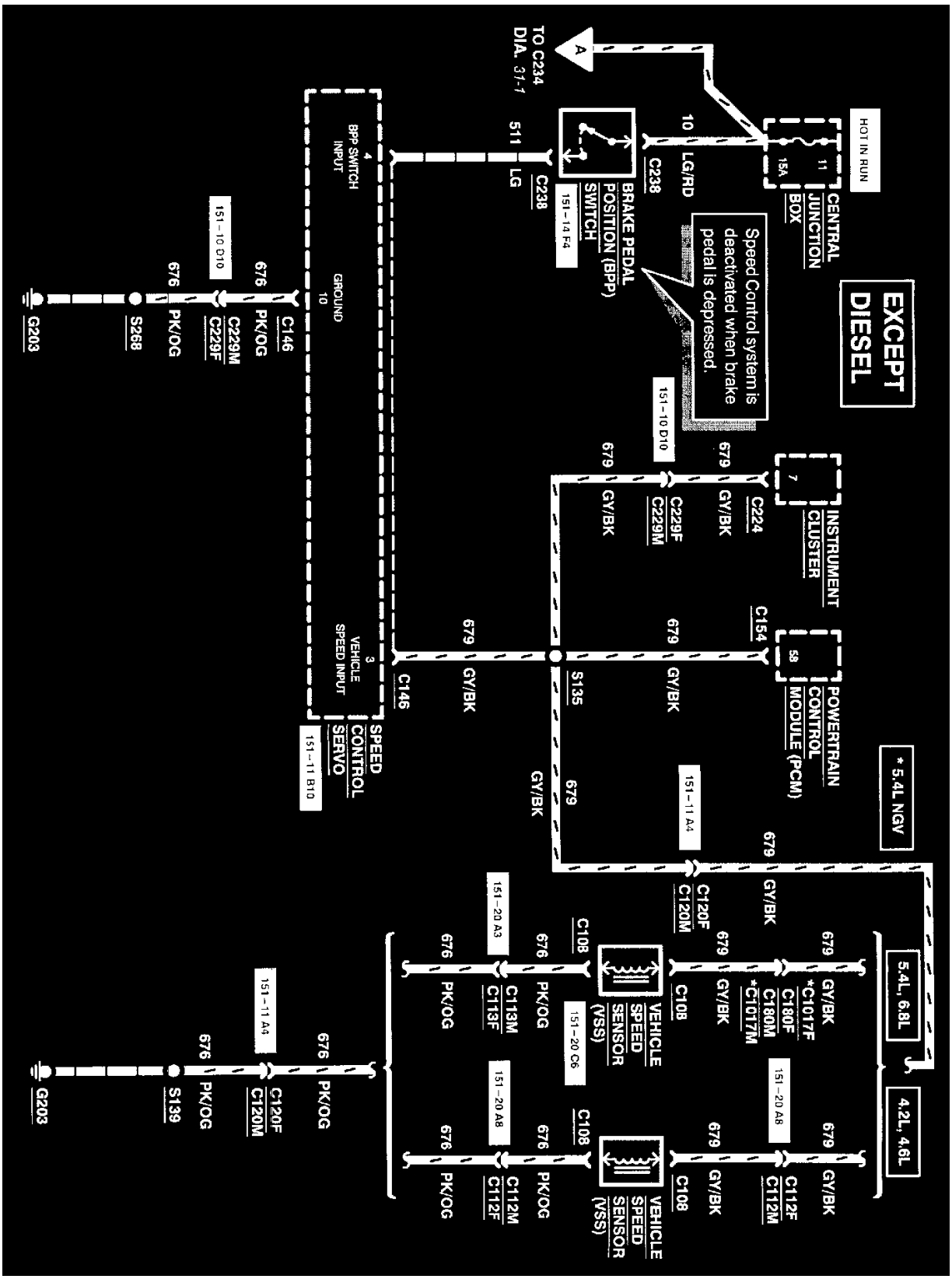
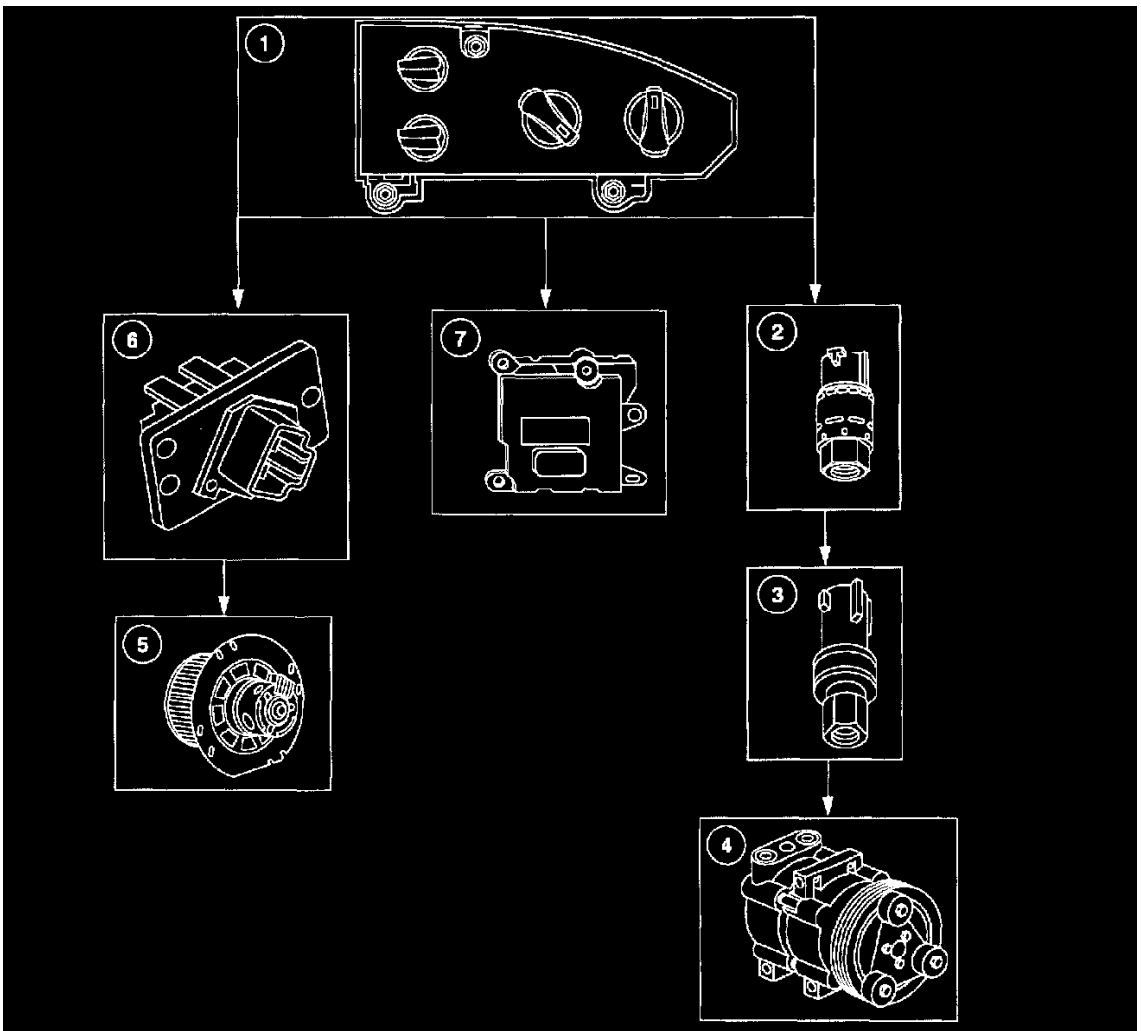

EXCEPT DIESEL
HOT IN RUN
11
15A
CENTRAL JUNCTION BOX
10
LG/RD
C238
BRAKE PEDAL POSITION (BPP) SWITCH
151-14 F4
Speed Control system is deactivated when brake pedal is depressed.
151-10 D10
TO C234 DIA. 31-1
A
511
LG
C238
4
BPP SWITCH INPUT
GROUND
10
676
PK/OG
C146
151-10 D10
676
PK/OG
C229M
C229F
S268
G203
679
GY/BK
C224
INSTRUMENT CLUSTER
7
679
GY/BK
C229F
C229M
679
GY/BK
C154
POWERTRAIN CONTROL MODULE (PCM)
59
679
GY/BK
S135
679
GY/BK
C146
3
VEHICLE SPEED INPUT
SPEED CONTROL SERVO
151-11 B10
151-11 A4
* 5.4L NGV
5.4L, 6.8L
4.2L, 4.6L
679
GY/BK
C120F
C120M
C108
VEHICLE SPEED SENSOR (VSS)
151-20 C6
679
GY/BK
*C1017F
C180F
*C1017M
C180M
151-20 A8
679
GY/BK
C112F
C112M
C108
VEHICLE SPEED SENSOR (VSS)
151-20 A3
676
PK/OG
C113M
C113F
676
PK/OG
C112M
C112F
151-11 A4
676
PK/OG
C120F
C120M
S139
G203

Diagram 31-2



Item	Part Number	Description
1	19980	Manual A/C Control Assembly
2	19E56	A/C Cycling Switch
3	19D59	A/C Pressure Cut-Off Switch
4	1970	A/C Compressor

Item	Part Number	Description
5	1852	Blower Motor
6	1859	Heater Blower Motor Switch Resistor
7	19E61	A/C Electronic Door Actuator Motor

Air Distribution

Heating

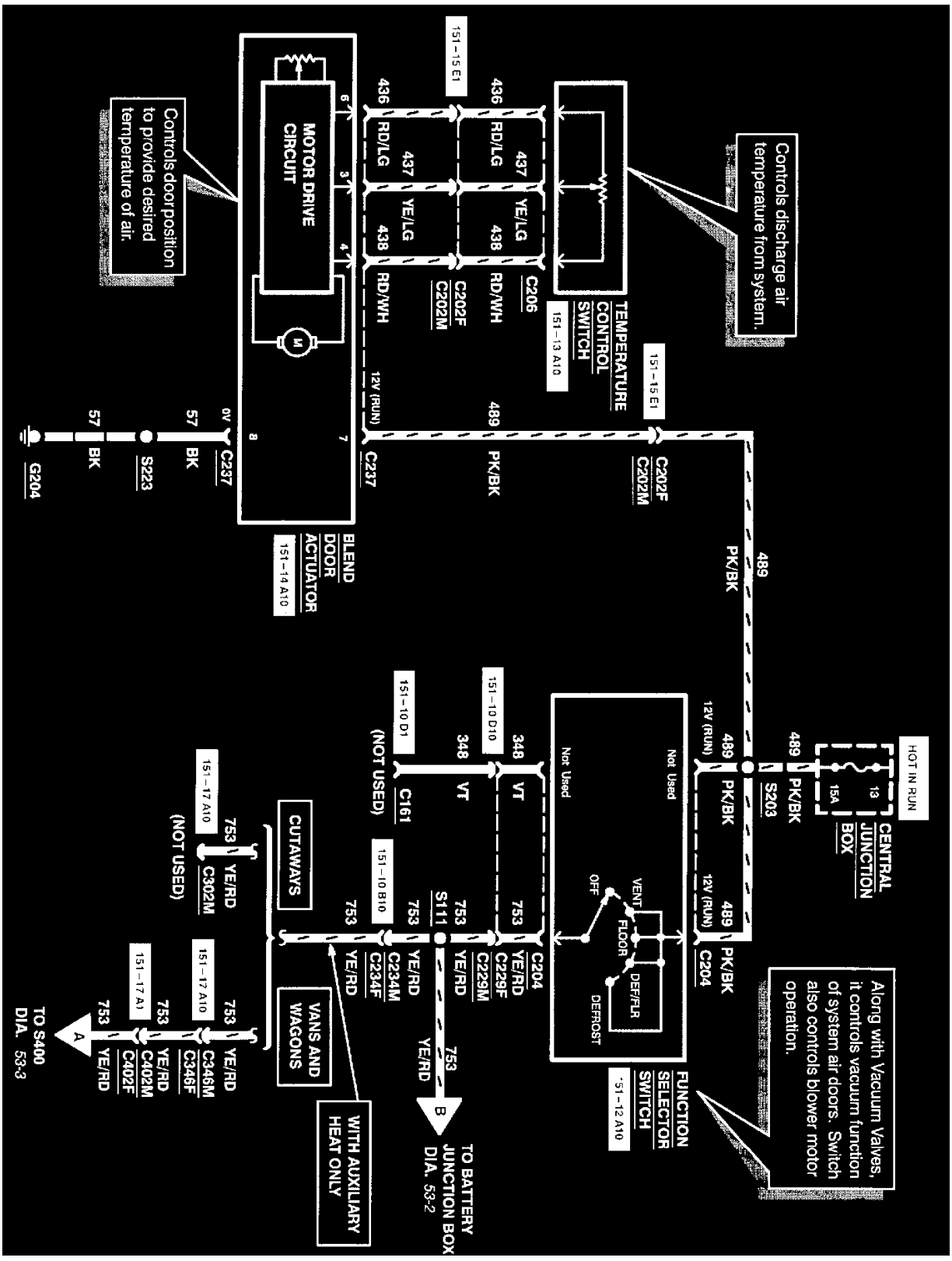

HOT IN RUN
CENTRAL JUNCTION BOX
13
15A
PK/BK
S203
489
12V (RUN)
PK/BK
C204
Along with Vacuum Valves, it controls vacuum function of system air doors. Switch also controls blower motor operation.
FUNCTION SELECTOR SWITCH
151-12 A10
Not Used
VENT
FLOOR
DEF/FLR
DEFROST
OFF
Not Used
348
VT
753
YE/RD
C229F
C229M
151-10 D10
151-10 D1
C161
(NOT USED)
151-10 B10
S111
C234M
C234F
CUTAWAYS
VANS AND WAGONS
WITH AUXILIARY HEAT ONLY
TO BATTERY JUNCTION BOX DIA. 53-2
B
151-17 A10
C302M
(NOT USED)
C346M
C346F
C402M
C402F
151-17 A1
A
TO S400 DIA. 53-3
TEMPERATURE CONTROL SWITCH
151-13 A10
151-15 E1
C206
C202F
C202M
436
RD/LG
437
YE/LG
438
RD/WH
RD/WH
PK/BK
MOTOR DRIVE CIRCUIT
BLEND DOOR ACTUATOR
151-14 A10
6
3
4
7
8
0V
C237
57
BK
S223
G204
Controls discharge air temperature from system.
Controls door position to provide desired temperature of air.

Diagram 53-1

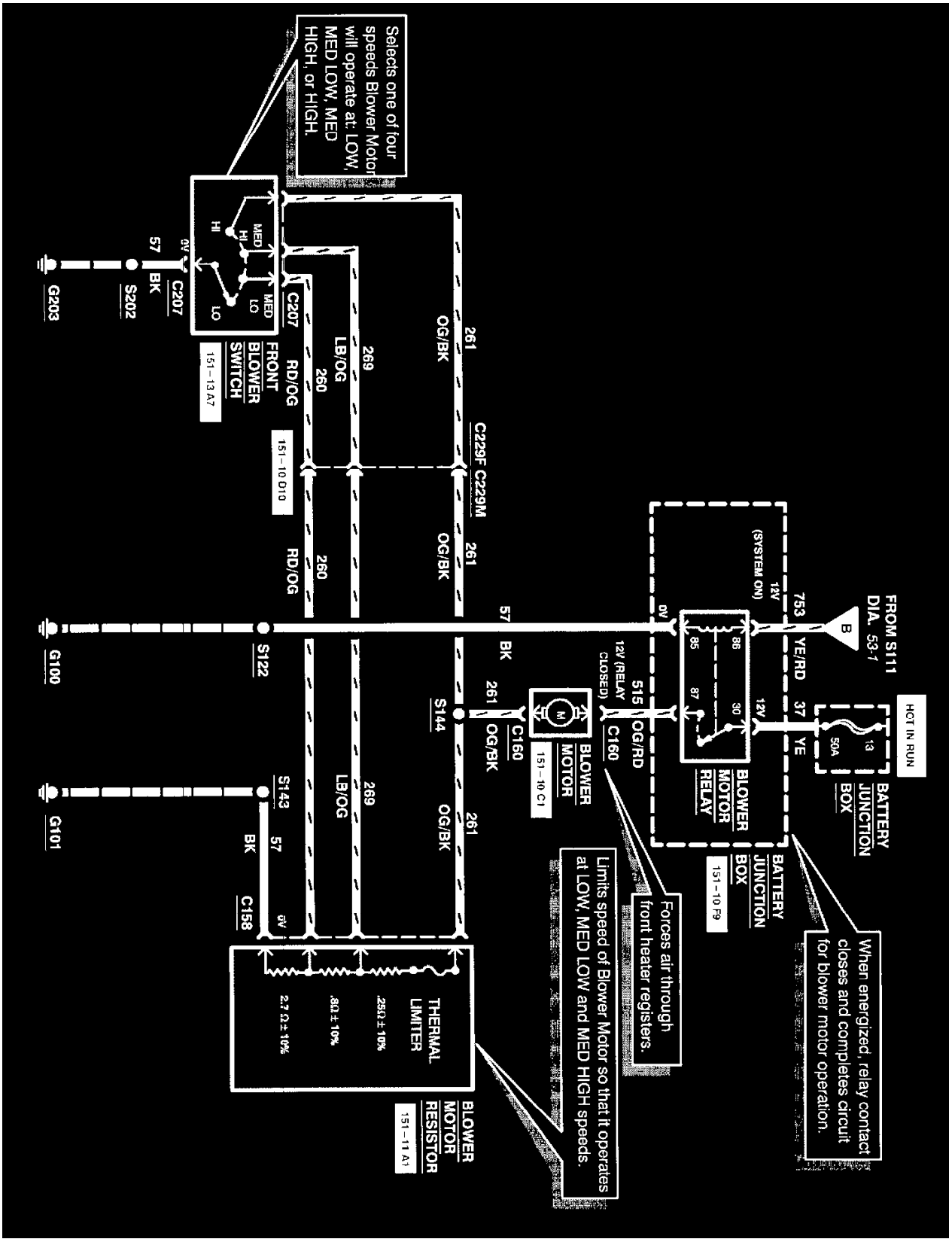

FROM S111
DIA. 53-1
HOT IN RUN
BATTERY JUNCTION BOX
753
YE/RD
37
YE
50A
13
12V (SYSTEM ON)
BLOWER MOTOR RELAY
85
86
87
30
12V
0V
515
OG/RD
12V (RELAY CLOSED)
C160
BLOWER MOTOR
151-10 C1
BATTERY JUNCTION BOX
151-10 F9
When energized, relay contact closes and completes circuit for blower motor operation.
Forces air through front heater registers.
Limits speed of Blower Motor so that it operates at LOW, MED LOW and MED HIGH speeds.
Selects one of four speeds Blower Motor will operate at: LOW, MED LOW, MED HIGH, or HIGH.
FRONT BLOWER SWITCH
151-13 A7
HI
MED HI
MED LO
LO
C207
57
BK
S202
G203
261
OG/BK
269
LB/OG
260
RD/OG
151-10 D10
C229F
C229M
G100
S122
57
BK
261
OG/BK
S144
C160
269
LB/OG
261
OG/BK
S143
57
BK
C158
G101
THERMAL LIMITER
.25Ω ± 10%
.8Ω ± 10%
2.7 Ω ± 10%
BLOWER MOTOR RESISTOR
151-11 A1

Diagram 53-2

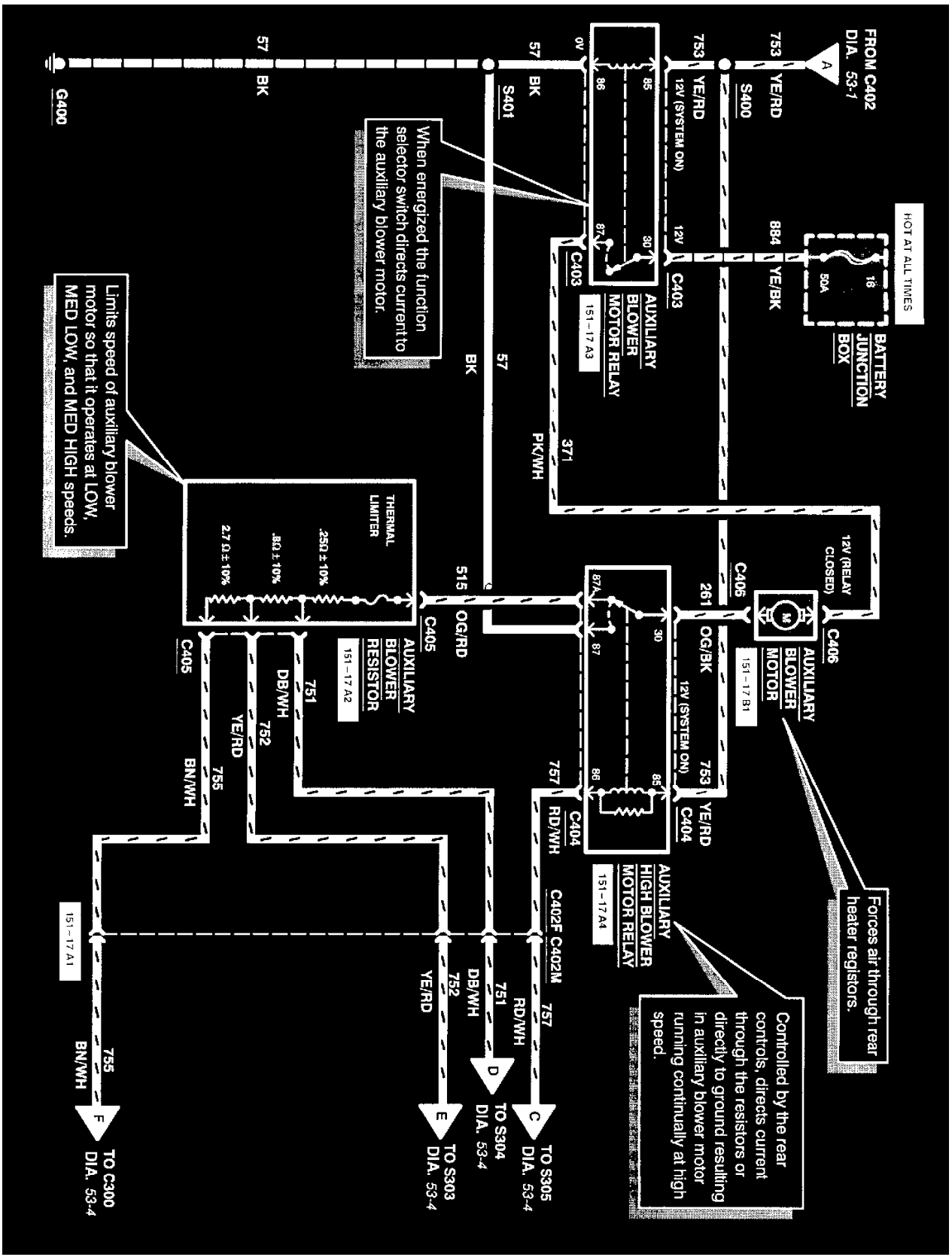

HOT AT ALL TIMES
FROM C402
DIA. 53-1
A
753
YE/RD
S400
18
50A
884
YE/BK
BATTERY
JUNCTION
BOX
753
YE/RD
12V (SYSTEM ON)
12V
85
86
87
30
C403
AUXILIARY
BLOWER
MOTOR RELAY
151-17 A3
0V
57
BK
S401
G400
When energized the function selector switch directs current to the auxiliary blower motor.
Limits speed of auxiliary blower motor so that it operates at LOW, MED LOW, and MED HIGH speeds.
371
PK/WH
12V (RELAY CLOSED)
C406
AUXILIARY
BLOWER
MOTOR
151-17 B1
Forces air through rear heater registors.
261
OG/BK
753
YE/RD
C404
87A
30
87
86
85
12V (SYSTEM ON)
AUXILIARY
HIGH BLOWER
MOTOR RELAY
151-17 A4
Controlled by the rear controls, directs current through the resistors or directly to ground resulting in auxiliary blower motor running continually at high speed.
515
OG/RD
C405
THERMAL
LIMITER
.250 ± 10%
.80 Ω ± 10%
2.7 Ω ± 10%
AUXILIARY
BLOWER
RESISTOR
151-17 A2
751
DB/WH
752
YE/RD
755
BN/WH
757
RD/WH
C404
C402F C402M
757
RD/WH
751
DB/WH
752
YE/RD
755
BN/WH
C
D
E
F
TO S305
DIA. 53-4
TO S304
DIA. 53-4
TO S303
DIA. 53-4
TO C300
DIA. 53-4
151-17 A1

Diagram 53-3

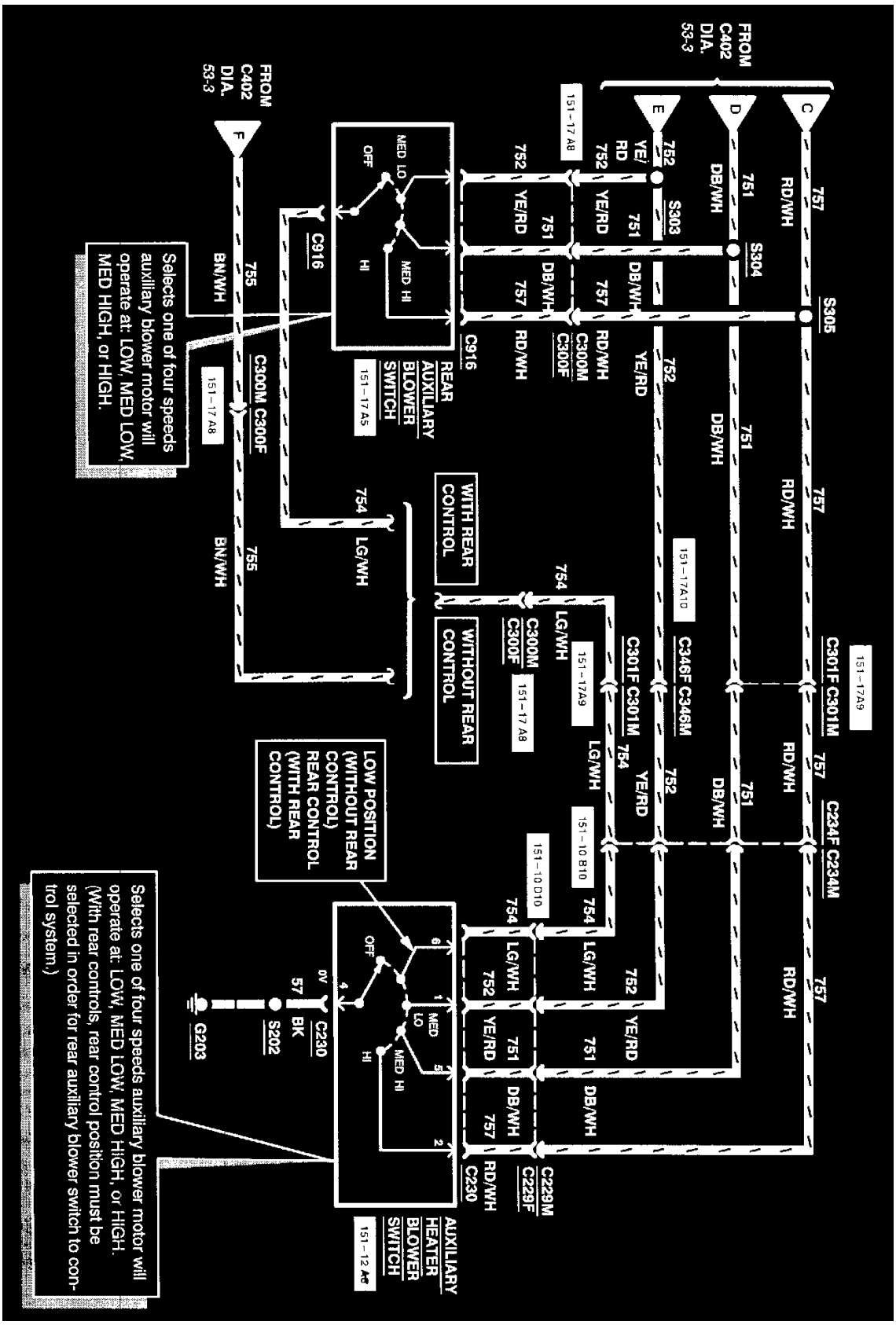


Diagram 53-4

With A/C

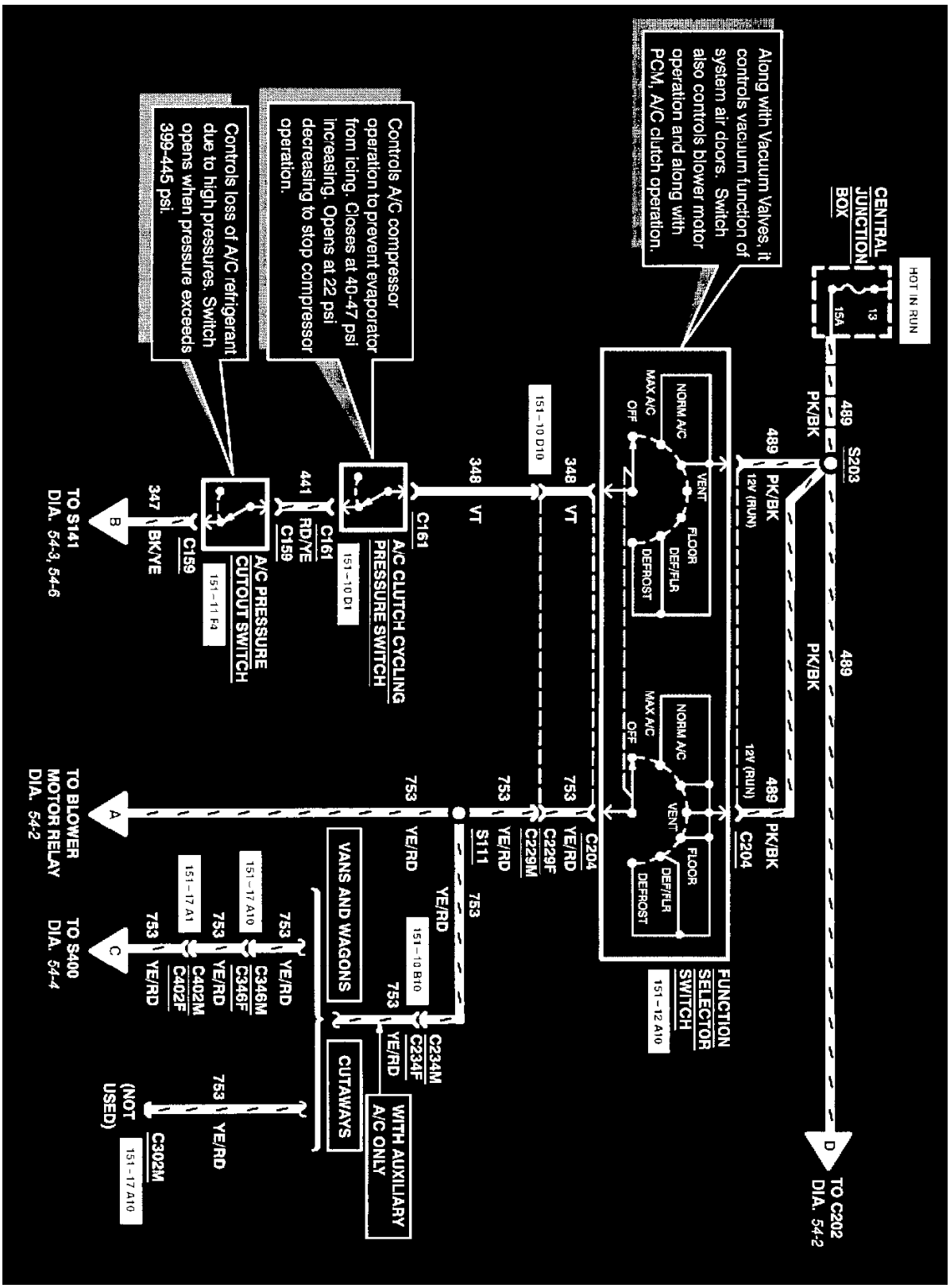

HOT IN RUN
CENTRAL JUNCTION BOX
13
15A
S203
489
PK/BK
489
PK/BK
12V (RUN)
489
PK/BK
489
PK/BK
12V (RUN)
C204
TO C202
DIA. 54-2
D
Along with Vacuum Valves, it controls vacuum function of system air doors. Switch also controls blower motor operation and along with PCM, A/C clutch operation.
NORM A/C
MAX A/C
OFF
VENT
FLOOR
DEF/FLR
DEFROST
FUNCTION SELECTOR SWITCH
151-12 A10
348
VT
151-10 D10
348
VT
753
YE/RD
C204
C229F
C229M
753
YE/RD
S111
753
YE/RD
151-10 B10
753
C234M
C234F
YE/RD
WITH AUXILIARY A/C ONLY
CUTAWAYS
VANS AND WAGONS
753
YE/RD
151-17 A10
753
C346M
C346F
YE/RD
753
C402M
C402F
YE/RD
151-17 A1
753
YE/RD
C302M
(NOT USED)
151-17 A10
Controls A/C compressor operation to prevent evaporator from icing. Closes at 40-47 psi increasing. Opens at 22 psi decreasing to stop compressor operation.
C161
A/C CLUTCH CYCLING PRESSURE SWITCH
151-10 D1
441
RD/YE
C161
Controls loss of A/C refrigerant due to high pressures. Switch opens when pressure exceeds 399-445 psi.
C159
A/C PRESSURE CUTOUT SWITCH
151-11 F4
347
BK/YE
C159
B
TO S141
DIA. 54-3, 54-6
A
TO BLOWER MOTOR RELAY
DIA. 54-2
C
TO S400
DIA. 54-4

Diagram 54-1

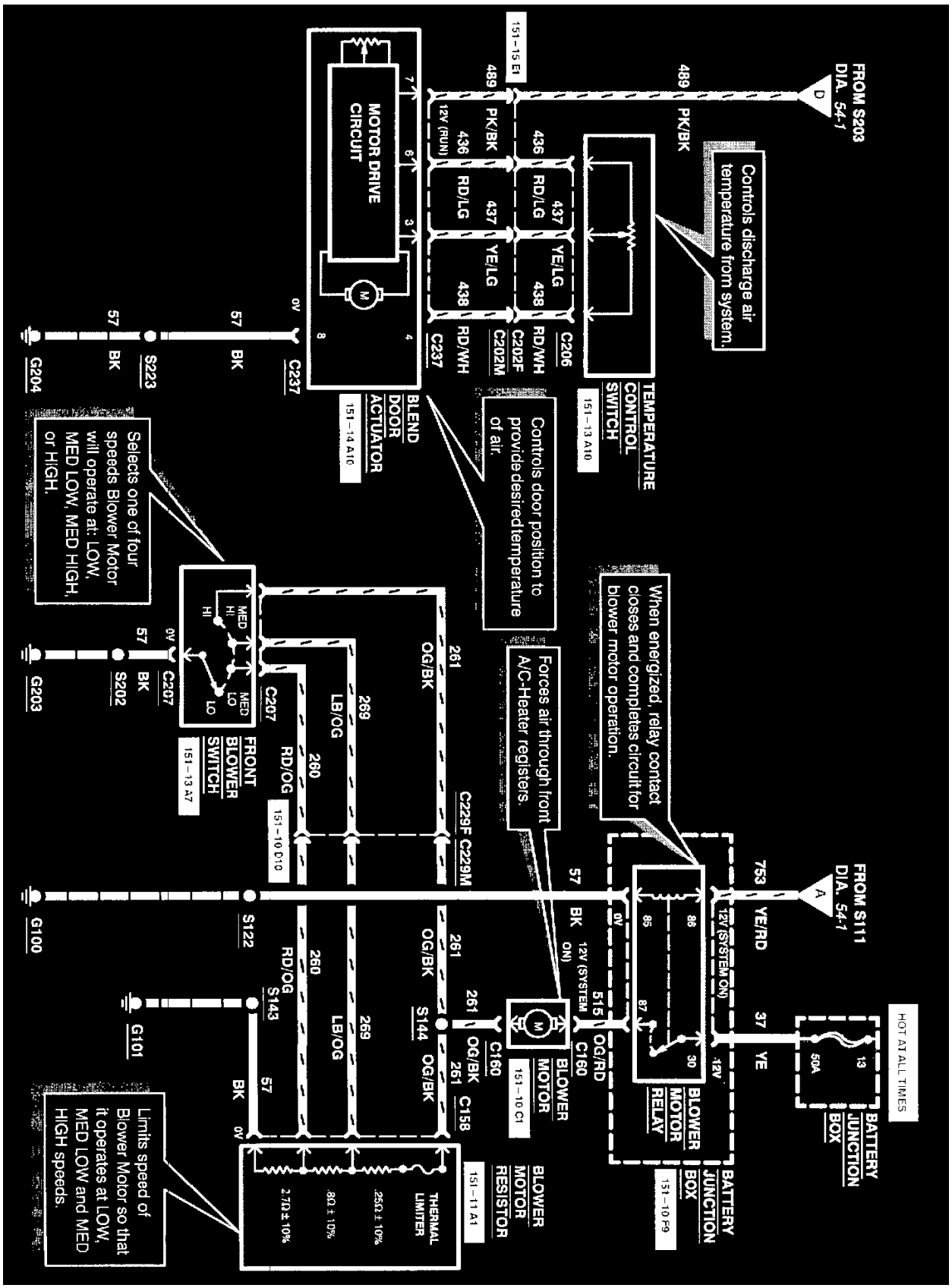

FROM S203
DIA. 54-1
D
489
PK/BK
Controls discharge air temperature from system.
TEMPERATURE CONTROL SWITCH
151-13 A10
436
RD/LG
437
YE/LG
438
RD/WH
C206
C202F
C202M
C237
151-15 E1
489
PK/BK
436
RD/LG
437
YE/LG
438
RD/WH
C237
12V (RUN)
MOTOR DRIVE CIRCUIT
BLEND DOOR ACTUATOR
151-14 A10
Controls door position to provide desired temperature of air.
0V
57
BK
C237
S223
G204
Selects one of four speeds Blower Motor will operate at: LOW, MED LOW, MED HIGH, or HIGH.
FRONT BLOWER SWITCH
151-13 A7
MED HI
HI
MED LO
LO
C207
0V
57
BK
S202
G203
261
OG/BK
269
LB/OG
260
RD/OG
151-10 D10
C229F
C229M
Forces air through front A/C-Heater registers.
When energized, relay contact closes and completes circuit for blower motor operation.
753
YE/RD
12V (SYSTEM ON)
86
85
87
30
0V
BK
12V (SYSTEM ON)
515
OG/RD
C160
BLOWER MOTOR
151-10 C1
BLOWER MOTOR RELAY
BATTERY JUNCTION BOX
151-10 F9
FROM S111
DIA. 54-1
A
37
YE
12V
HOT AT ALL TIMES
13
50A
BATTERY JUNCTION BOX
261
OG/BK
C160
261
OG/BK
C158
261
OG/BK
S144
269
LB/OG
260
RD/OG
S143
57
BK
0V
THERMAL LIMITER
.25Ω ± 10%
.80Ω ± 10%
2.7Ω ± 10%
BLOWER MOTOR RESISTOR
151-11 A1
S122
G100
G101
Limits speed of Blower Motor so that it operates at LOW, MED LOW and MED HIGH speeds.

Diagram 54-2

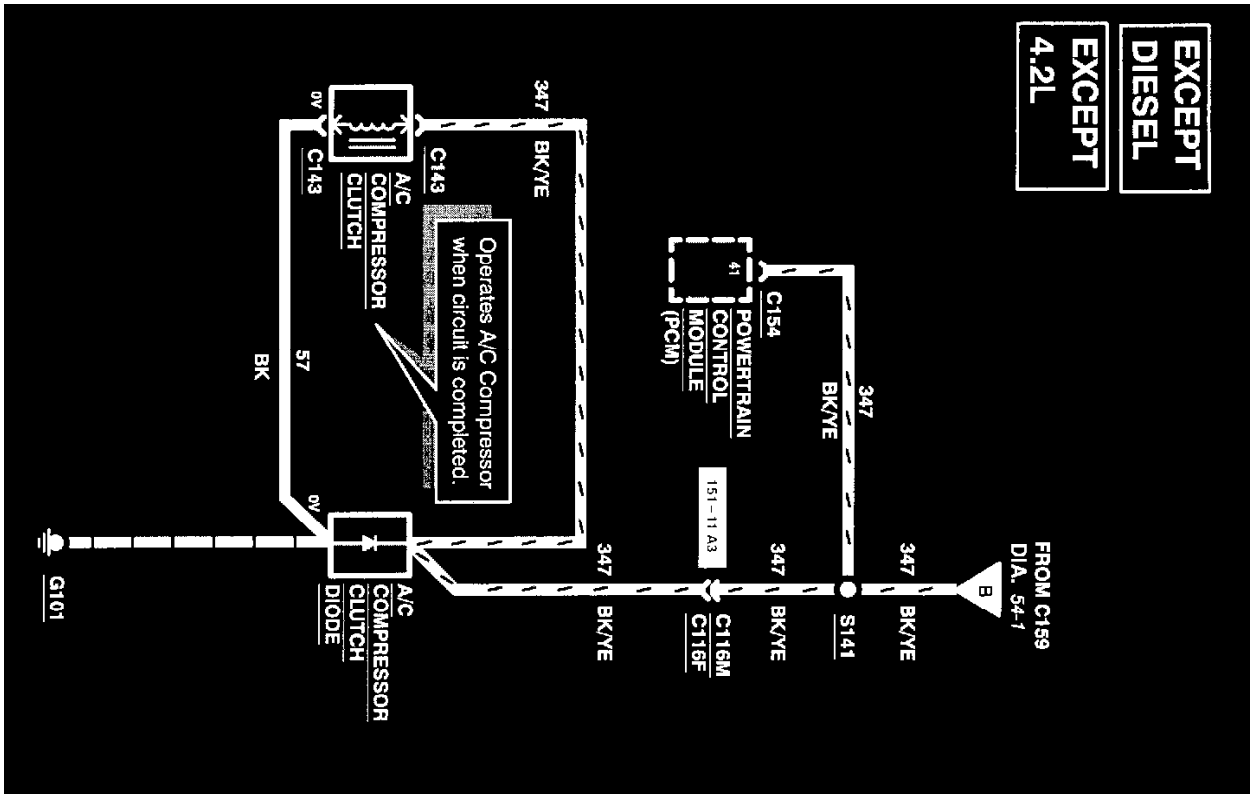

EXCEPT DIESEL
EXCEPT 4.2L
FROM C159
DIA. 54-1
B
347
BK/YE
S141
C154
41
POWERTRAIN CONTROL MODULE (PCM)
151-11 A3
C116M
C116F
Operates A/C Compressor when circuit is completed.
C143
A/C COMPRESSOR CLUTCH
A/C COMPRESSOR CLUTCH DIODE
57
BK
0V
G101

Diagram 54-3

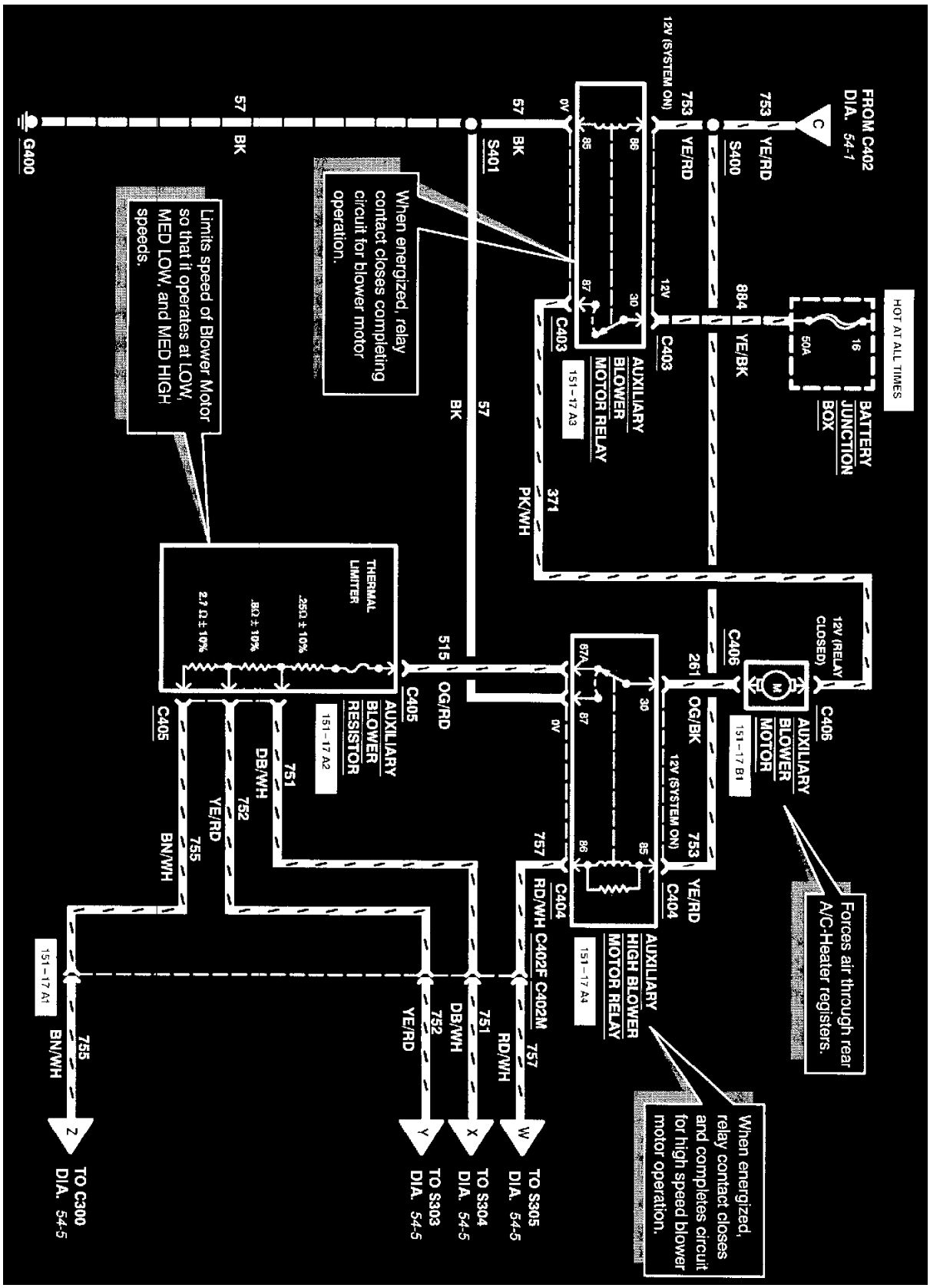

HOT AT ALL TIMES
FROM C402
DIA. 54-1
C
753
YE/RD
S400
753
YE/RD
12V (SYSTEM ON)
16
50A
BATTERY
JUNCTION
BOX
884
YE/BK
12V
C403
86
85
87
30
AUXILIARY
BLOWER
MOTOR RELAY
151-17 A3
0V
57
BK
S401
G400
57
BK
371
PK/WH
12V (RELAY
CLOSED)
C406
AUXILIARY
BLOWER
MOTOR
151-17 B1
Forces air through rear
A/C-Heater registers.
261
OG/BK
12V (SYSTEM ON)
753
YE/RD
C404
87A
30
87
0V
85
86
AUXILIARY
HIGH BLOWER
MOTOR RELAY
151-17 A4
When energized, relay
contact closes
and completes circuit
for high speed blower
motor operation.
When energized, relay
contact closes completing
circuit for blower motor
operation.
Limits speed of Blower Motor
so that it operates at LOW,
MED LOW, and MED HIGH
speeds.
THERMAL
LIMITER
.25Ω ± 10%
.8Ω ± 10%
2.1 Ω ± 10%
515
OG/RD
C405
AUXILIARY
BLOWER
RESISTOR
151-17 A2
C405
751
DB/WH
752
YE/RD
755
BN/WH
757
RD/WH
C404
C402F
C402M
751
DB/WH
752
YE/RD
755
BN/WH
151-17 A1
W
X
Y
Z
TO S305
DIA. 54-5
TO S304
DIA. 54-5
TO S303
DIA. 54-5
TO C300
DIA. 54-5

Diagram 54-4

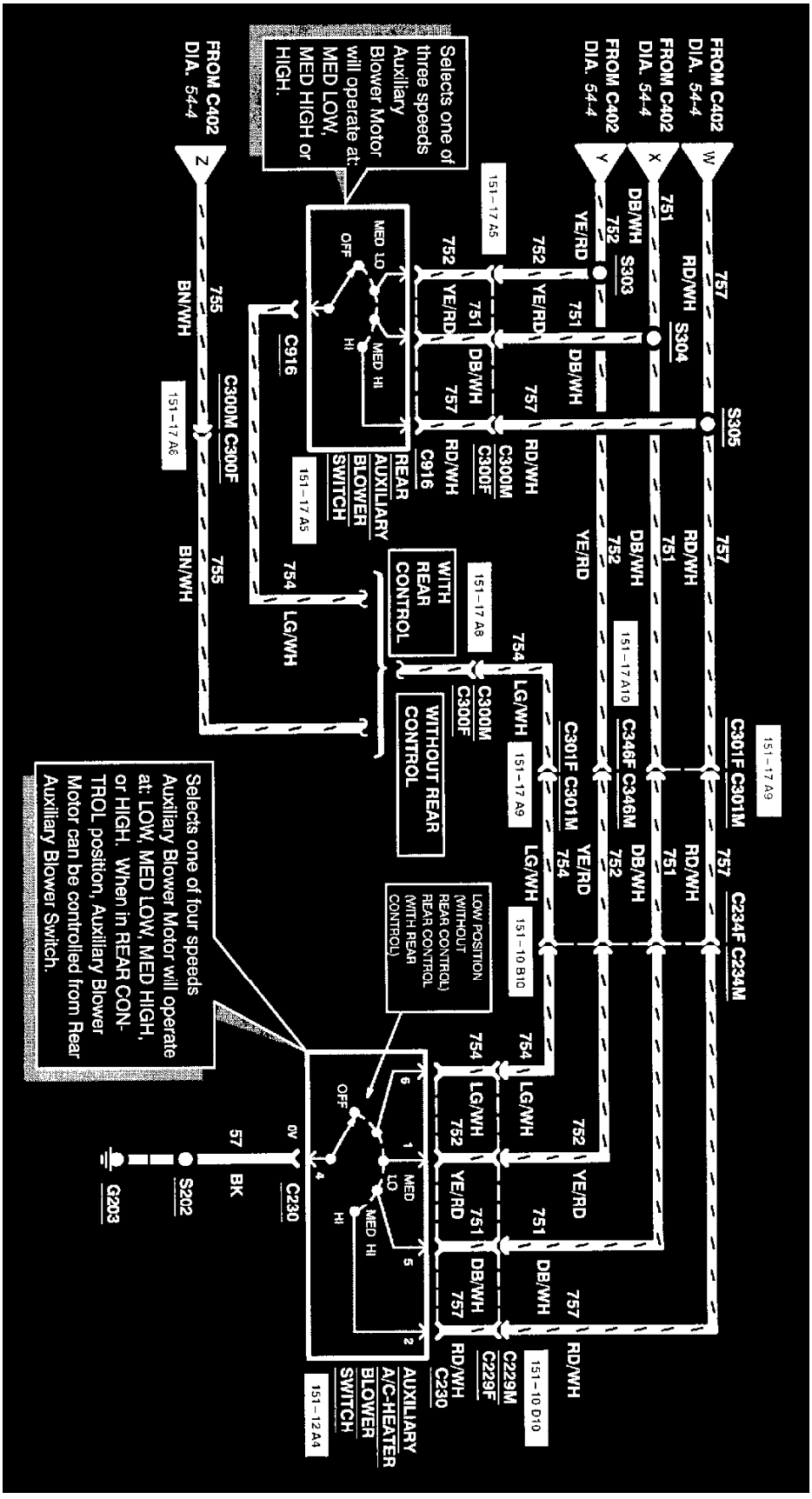


Diagram 54-5

Instrument Cluster

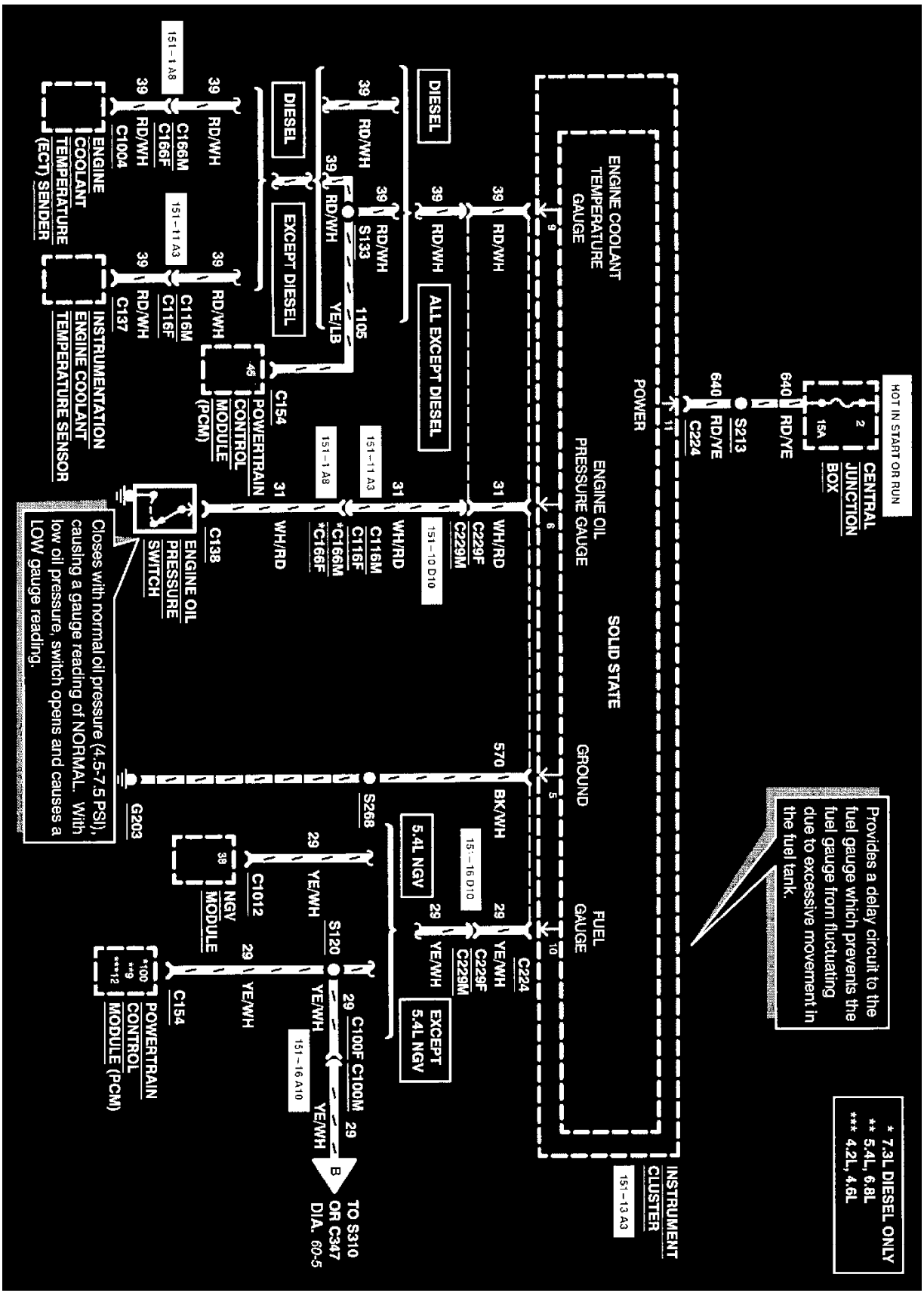

HOT IN START OR RUN
CENTRAL JUNCTION BOX
2
15A
640
RD/YE
S213
640
RD/YE
C224
11
POWER
SOLID STATE
GROUND
ENGINE COOLANT TEMPERATURE GAUGE
ENGINE OIL PRESSURE GAUGE
FUEL GAUGE
INSTRUMENT CLUSTER
151-13 A3
9
6
5
10
39
RD/WH
31
WH/RD
C229F
C229M
151-10 D10
570
BK/WH
29
YE/WH
C224
DIESEL
ALL EXCEPT DIESEL
EXCEPT DIESEL
151-11 A3
S133
1105
YE/LB
151-1 A8
C154
46
POWERTRAIN CONTROL MODULE (PCM)
C116M
C116F
*C166M
*C166F
WH/RD
C138
ENGINE OIL PRESSURE SWITCH
Closes with normal oil pressure (4.5-7.5 PSI), causing a gauge reading of NORMAL. With low oil pressure, switch opens and causes a LOW gauge reading.
G203
S268
5.4L NGV
EXCEPT 5.4L NGV
151-16 D10
29
YE/WH
C1012
38
NGV MODULE
S120
C100F
C100M
151-16 A10
B
TO S310 OR C347 DIA. 60-5
*100
**9
***12
POWERTRAIN CONTROL MODULE (PCM)
C166M
C166F
C1004
ENGINE COOLANT TEMPERATURE (ECT) SENDER
151-1 A8
C116M
C116F
C137
INSTRUMENTATION ENGINE COOLANT TEMPERATURE SENSOR
151-11 A3
* 7.3L DIESEL ONLY
** 5.4L, 6.8L
*** 4.2L, 4.6L
Provides a delay circuit to the fuel gauge which prevents the fuel gauge from fluctuating due to excessive movement in the fuel tank.

Diagram 60-1

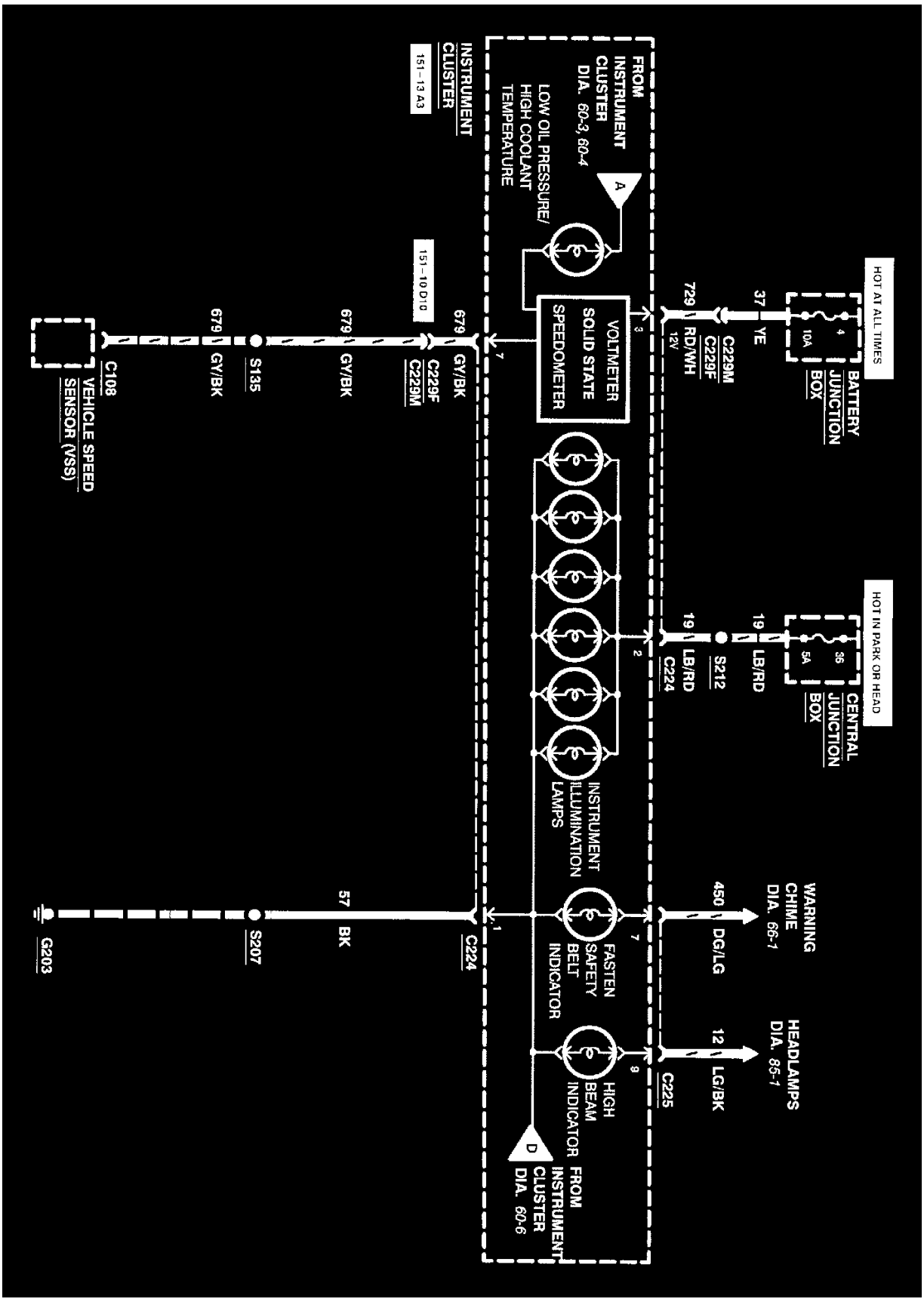

HOT AT ALL TIMES
BATTERY JUNCTION BOX
4
10A
37
YE
C229M
C229F
729
RD/WH
12V
HOT IN PARK OR HEAD
CENTRAL JUNCTION BOX
36
5A
19
LB/RD
S212
19
LB/RD
C224
FROM INSTRUMENT CLUSTER DIA. 60-3, 60-4
A
3
VOLTMETER SOLID STATE SPEEDOMETER
LOW OIL PRESSURE/ HIGH COOLANT TEMPERATURE
7
2
INSTRUMENT ILLUMINATION LAMPS
INSTRUMENT CLUSTER
151-13 A3
151-10 D10
679
GY/BK
C229F
C229M
679
GY/BK
S135
679
GY/BK
C108
VEHICLE SPEED SENSOR (VSS)
WARNING CHIME DIA. 66-1
450
DG/LG
HEADLAMPS DIA. 85-1
12
LG/BK
C225
7
9
FASTEN SAFETY BELT INDICATOR
HIGH BEAM INDICATOR
D
FROM INSTRUMENT CLUSTER DIA. 60-6
1
C224
57
BK
S207
G203

Diagram 60-2

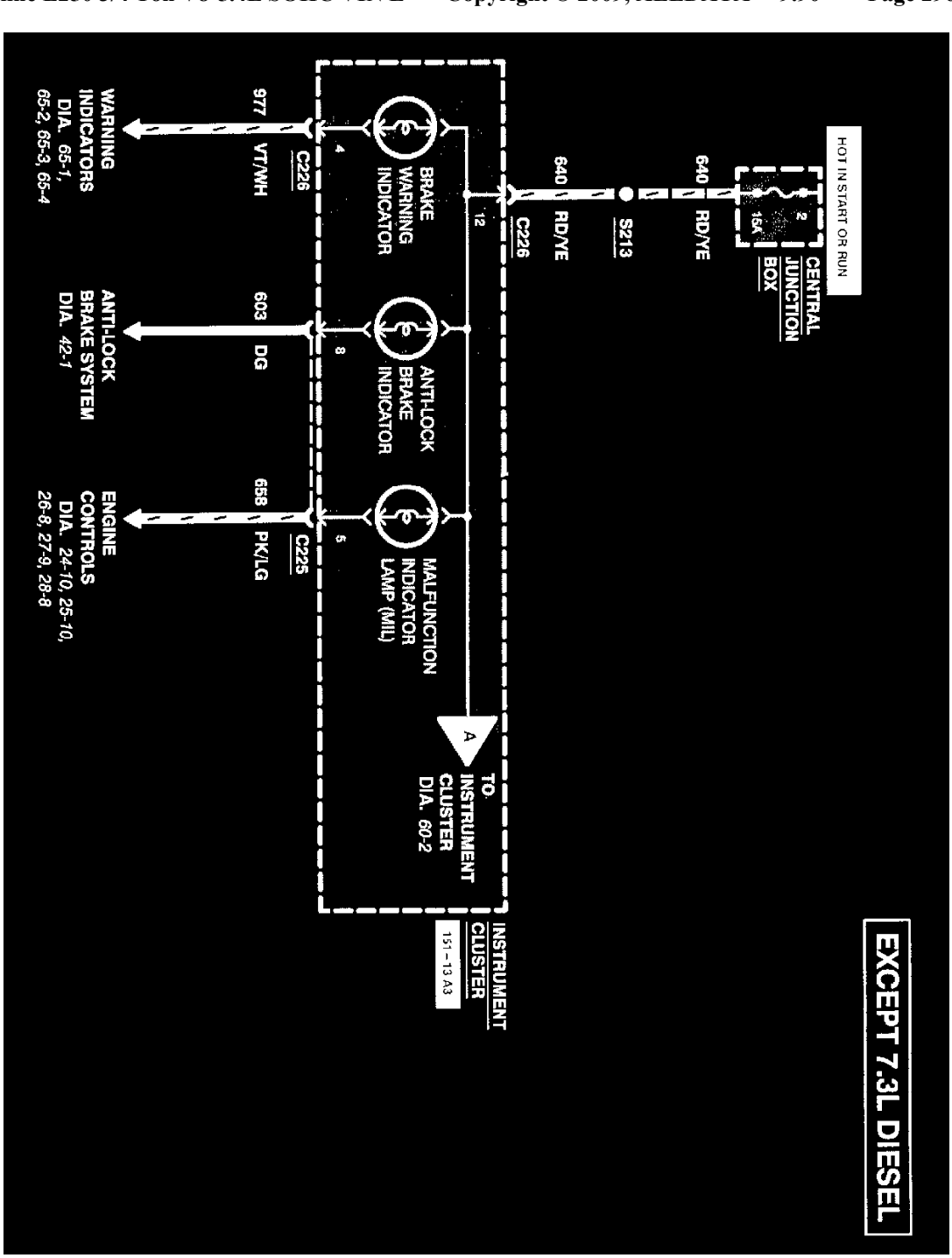

EXCEPT 7.3L DIESEL
HOT IN START OR RUN
CENTRAL JUNCTION BOX
15A
640 RD/YE
S213
640 RD/YE
C226
12
INSTRUMENT CLUSTER
151-13 A3
BRAKE WARNING INDICATOR
ANTI-LOCK BRAKE INDICATOR
MALFUNCTION INDICATOR LAMP (MIL)
TO INSTRUMENT CLUSTER DIA. 60-2
977 VT/WH
603 DG
658 PK/LG
C226
4
8
C225
5
WARNING INDICATORS DIA. 65-1, 65-2, 65-3, 65-4
ANTI-LOCK BRAKE SYSTEM DIA. 42-1
ENGINE CONTROLS DIA. 24-10, 25-10, 26-8, 27-9, 28-8

Diagram 60-3

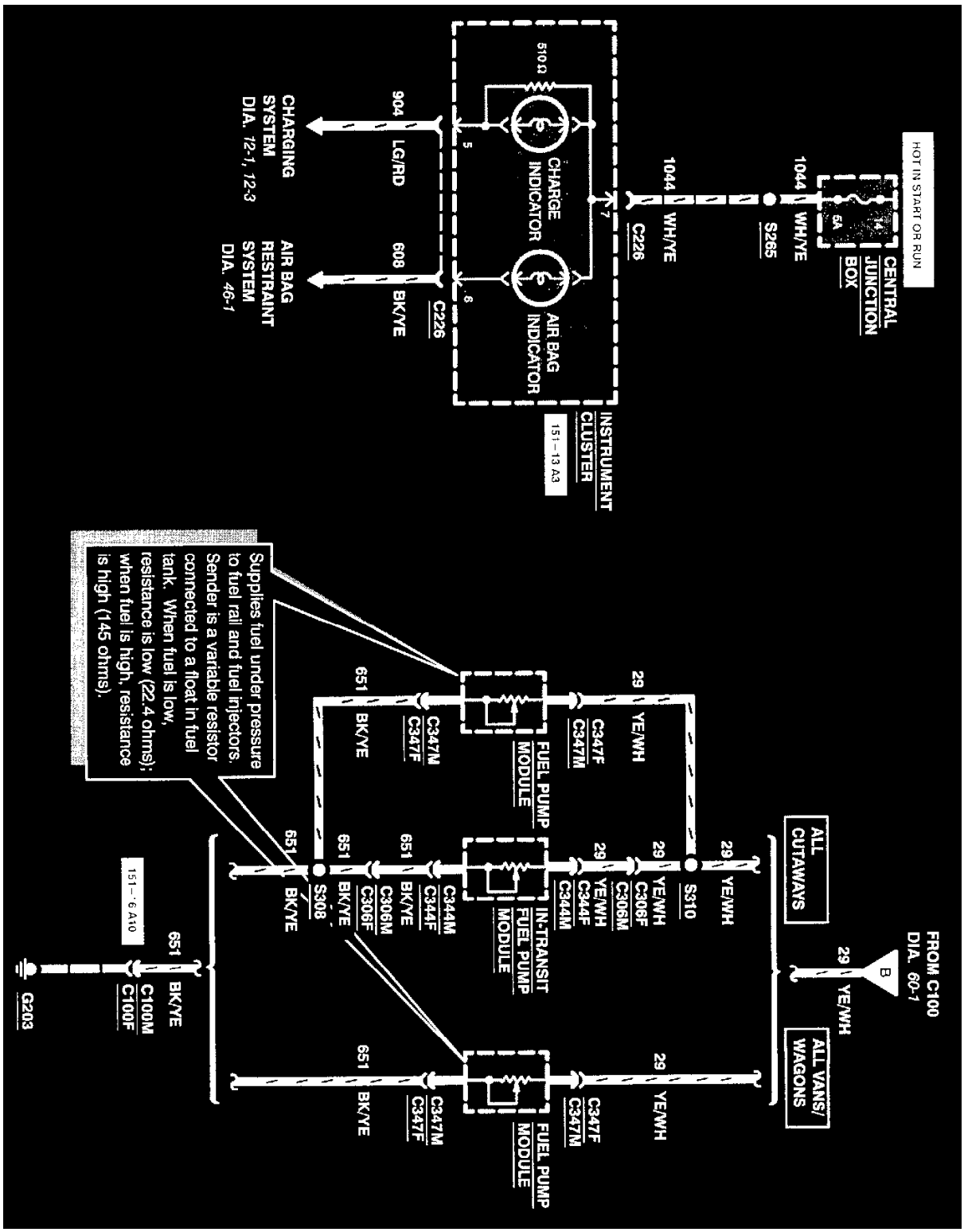

HOT IN START OR RUN
CENTRAL JUNCTION BOX
5A
1044
WH/YE
S265
C226
510 Ω
CHARGE INDICATOR
AIR BAG INDICATOR
INSTRUMENT CLUSTER
151 – 13 A3
904
LG/RD
608
BK/YE
CHARGING SYSTEM DIA. 12-1, 12-3
AIR BAG RESTRAINT SYSTEM DIA. 46-1
FROM C100 DIA. 60-1
ALL CUTAWAYS
ALL VANS/ WAGONS
29
YE/WH
S310
C306F
C306M
C344F
C344M
C347F
C347M
FUEL PUMP MODULE
IN-TRANSIT FUEL PUMP MODULE
651
BK/YE
S308
151 – 6 A10
C100M
C100F
G203
Supplies fuel under pressure to fuel rail and fuel injectors.
Sender is a variable resistor connected to a float in fuel tank. When fuel is low, resistance is low (22.4 ohms); when fuel is high, resistance is high (145 ohms).

Diagram 60-5

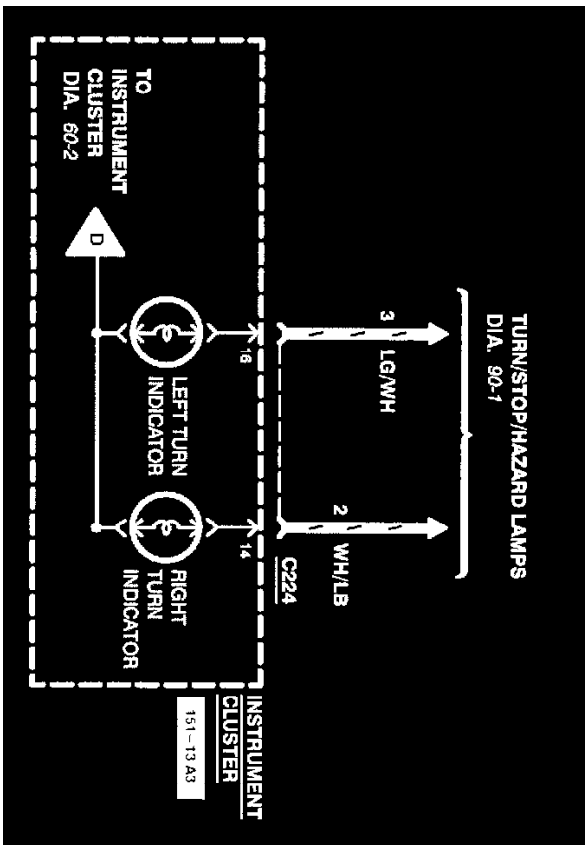

TURN/STOP/HAZARD LAMPS
DIA. 90-1
3
LG/WH
2
WH/LB
C224
16
14
LEFT TURN INDICATOR
RIGHT TURN INDICATOR
INSTRUMENT CLUSTER
151 – 13 A3
TO INSTRUMENT CLUSTER DIA. 60-2
D

Diagram 60-6

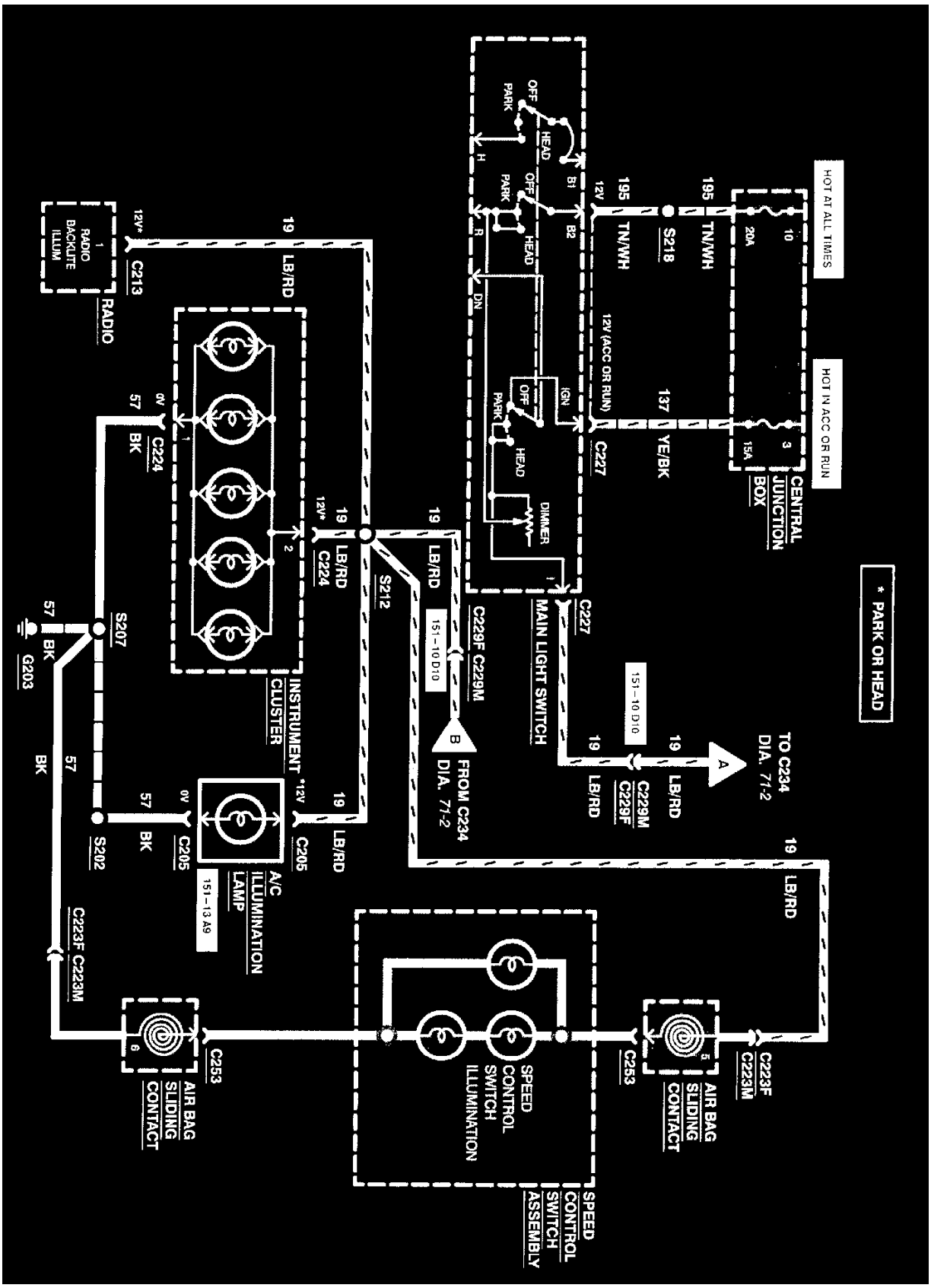

* PARK OR HEAD
HOT AT ALL TIMES
HOT IN ACC OR RUN
CENTRAL JUNCTION BOX
10
20A
3
15A
195
TN/WH
S218
137
YE/BK
C227
12V (ACC OR RUN)
OFF
PARK
HEAD
B1
B2
H
R
DN
IGN
DIMMER
MAIN LIGHT SWITCH
C229F C229M
151-10 D10
TO C234 DIA. 71-2
FROM C234 DIA. 71-2
19
LB/RD
S212
C224
C213
RADIO
1 RADIO BACKLITE ILLUM
12V*
0V
57
BK
G203
S207
S202
C205
INSTRUMENT CLUSTER
A/C ILLUMINATION LAMP
151-13 A9
SPEED CONTROL SWITCH ILLUMINATION
SPEED CONTROL SWITCH ASSEMBLY
C223F C223M
C253
AIR BAG SLIDING CONTACT

Diagram 71-1

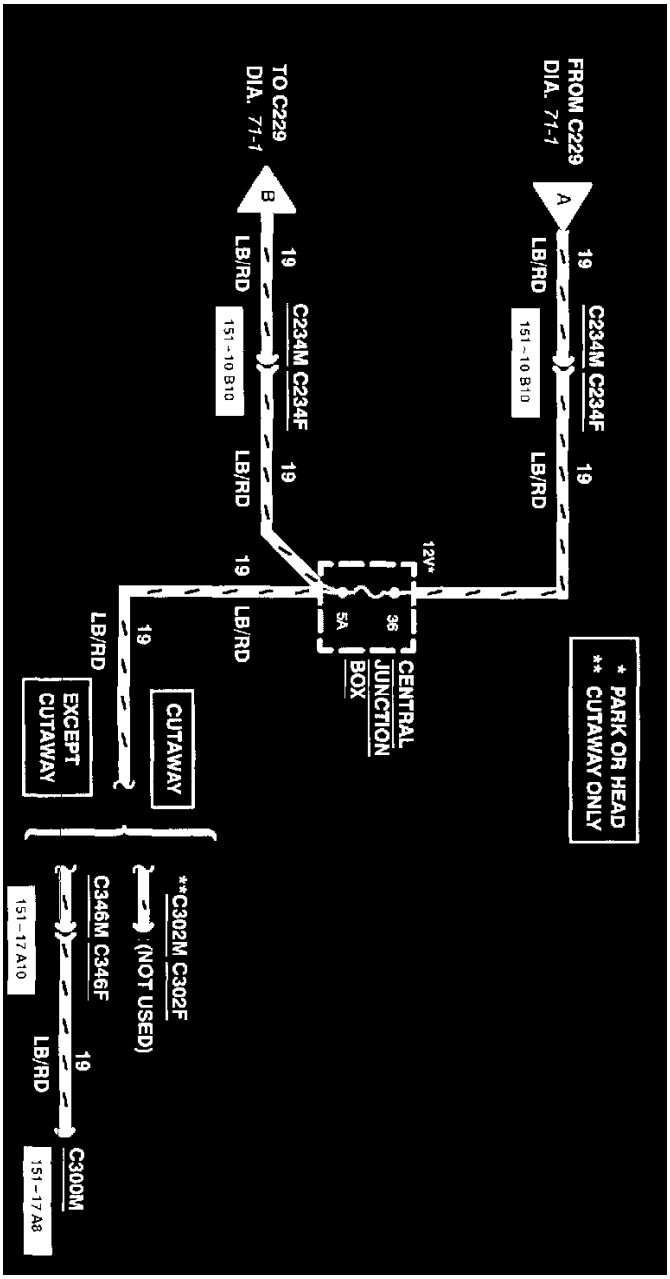

FROM C229
DIA. 71-1
A
19
LB/RD
C234M C234F
151-10 B10
19
LB/RD
12V*
36
5A
CENTRAL
JUNCTION
BOX
* PARK OR HEAD
** CUTAWAY ONLY
TO C229
DIA. 71-1
B
19
LB/RD
151-10 B10
C234M C234F
19
LB/RD
19
LB/RD
19
LB/RD
EXCEPT
CUTAWAY
CUTAWAY
**C302M C302F
(NOT USED)
C346M C346F
151-17 A10
19
LB/RD
C300M
151-17 A8

Diagram 71-2

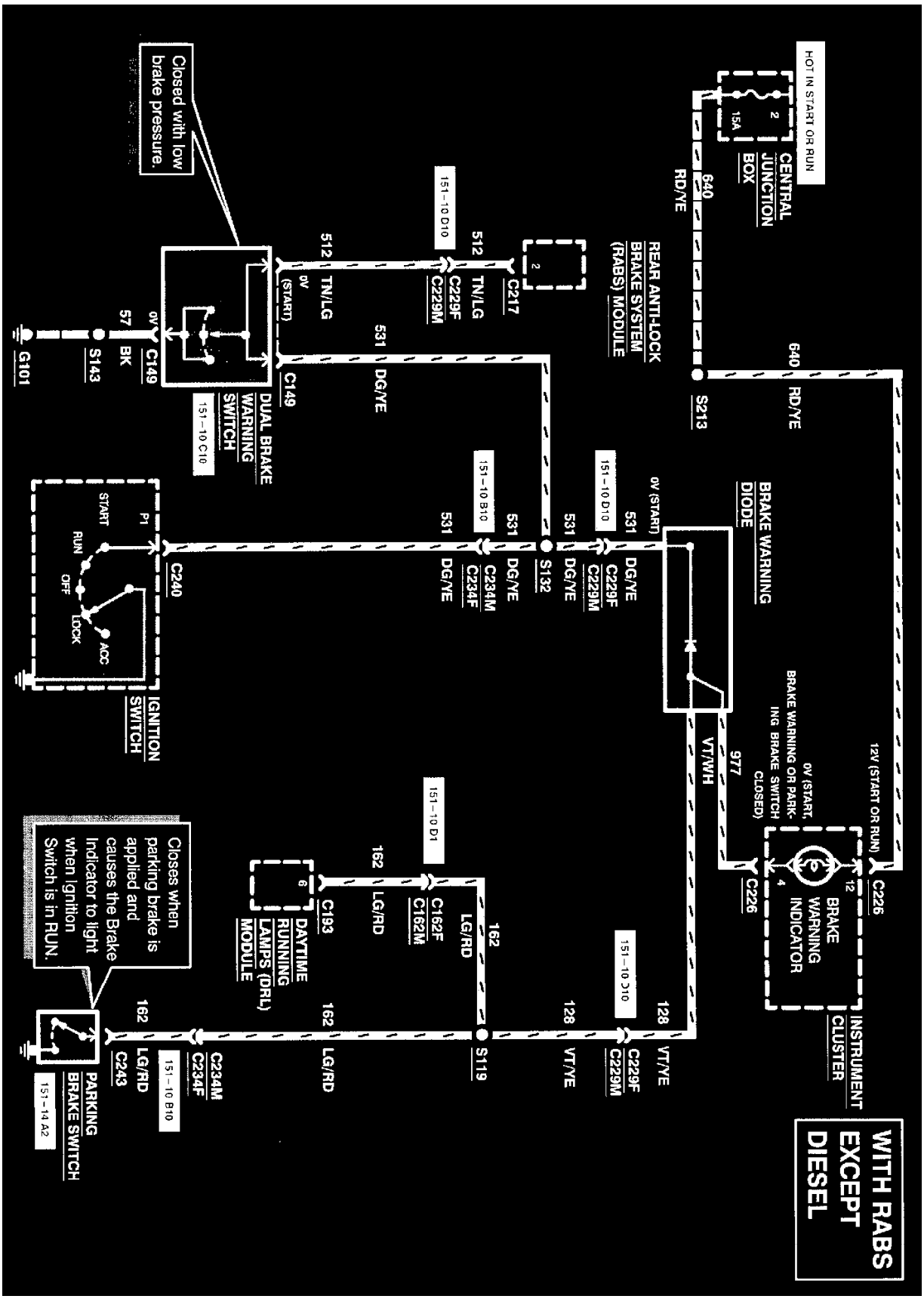

WITH RABS EXCEPT DIESEL
HOT IN START OR RUN
CENTRAL JUNCTION BOX
15A
640
RD/YE
S213
12V (START OR RUN)
C226
INSTRUMENT CLUSTER
BRAKE WARNING INDICATOR
0V (START, BRAKE WARNING OR PARKING BRAKE SWITCH CLOSED)
977
VT/WH
BRAKE WARNING DIODE
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
C217
C229F
C229M
151-10 D10
151-10 D10
128
VT/YE
512
TN/LG
531
DG/YE
S132
151-10 B10
C234M
C234F
151-10 D1
C162F
C162M
162
LG/RD
C193
DAYTIME RUNNING LAMPS (DRL) MODULE
S119
C234M
C234F
151-10 B10
C243
LG/RD
PARKING BRAKE SWITCH
151-14 A2
Closes when parking brake is applied and causes the Brake Indicator to light when Ignition Switch is in RUN.
Closed with low brake pressure.
DUAL BRAKE WARNING SWITCH
151-10 C10
C149
0V
57
BK
S143
G101
IGNITION SWITCH
C240
P1
START
RUN
OFF
LOCK
ACC

Diagram 65-1

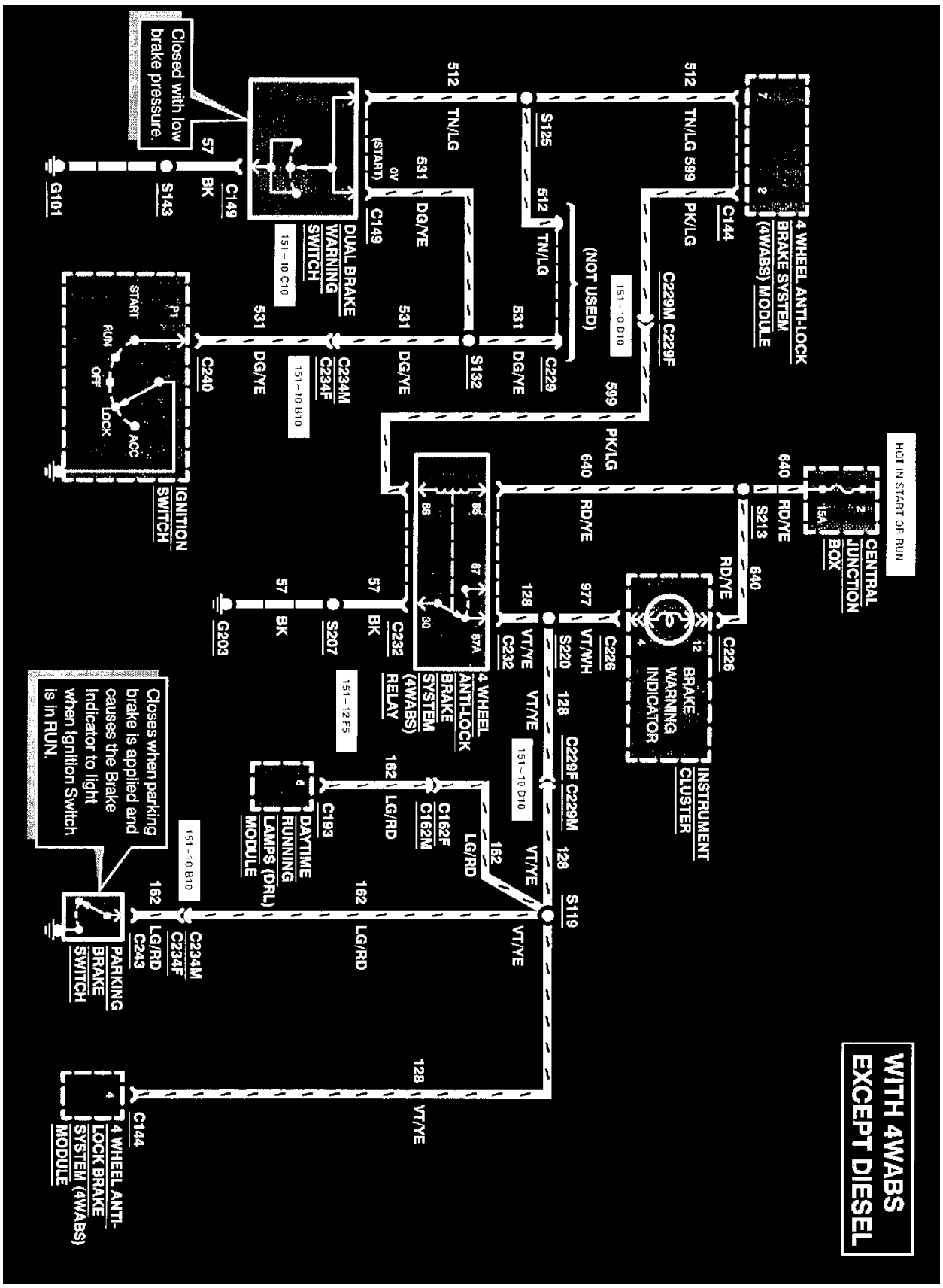

WITH 4WABS
EXCEPT DIESEL
HOT IN START OR RUN
CENTRAL JUNCTION BOX
15A
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
C144
TN/LG 599
PK/LG
512
C229M C229F
151-10 D10
(NOT USED)
S125
TN/LG
512
C229
DG/YE
531
S132
DG/YE
531
C234M C234F
151-10 B10
DG/YE
531
C240
DUAL BRAKE WARNING SWITCH
151-10 C10
TN/LG
531
0V (START)
DG/YE
531
C149
C149
57
BK
S143
G101
Closed with low brake pressure.
IGNITION SWITCH
P1
START
RUN
OFF
LOCK
ACC
PK/LG
640
S213
RD/YE
640
C226
RD/YE
977
VT/WH
S220
128
C229F C229M
128
S119
VT/YE
C226
12
BRAKE WARNING INDICATOR
INSTRUMENT CLUSTER
RD/YE
128
VT/YE
C232
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) RELAY
85
86
87
87A
30
C232
BK
57
S207
57
BK
G203
151-12 F5
VT/YE
151-10 D10
162
LG/RD
C162F
C162M
162
LG/RD
C193
8
DAYTIME RUNNING LAMPS (DRL) MODULE
151-10 B10
162
LG/RD
C234M
C234F
C243
PARKING BRAKE SWITCH
Closes when parking brake is applied and causes the Brake Indicator to light when Ignition Switch is in RUN.
VT/YE
128
VT/YE
C144
4
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE

Diagram 65-3

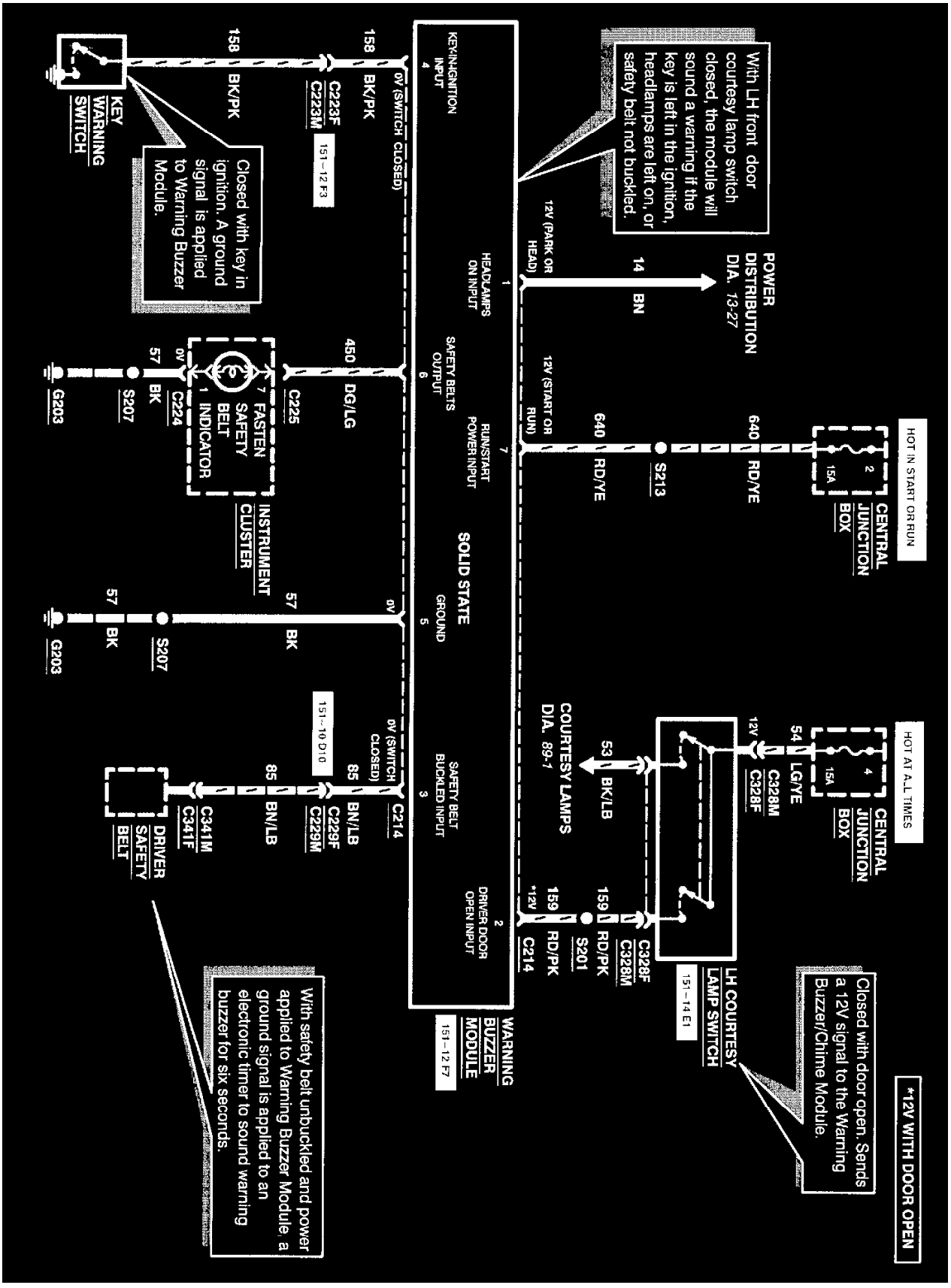


Diagram 66-1

Keyless Entry

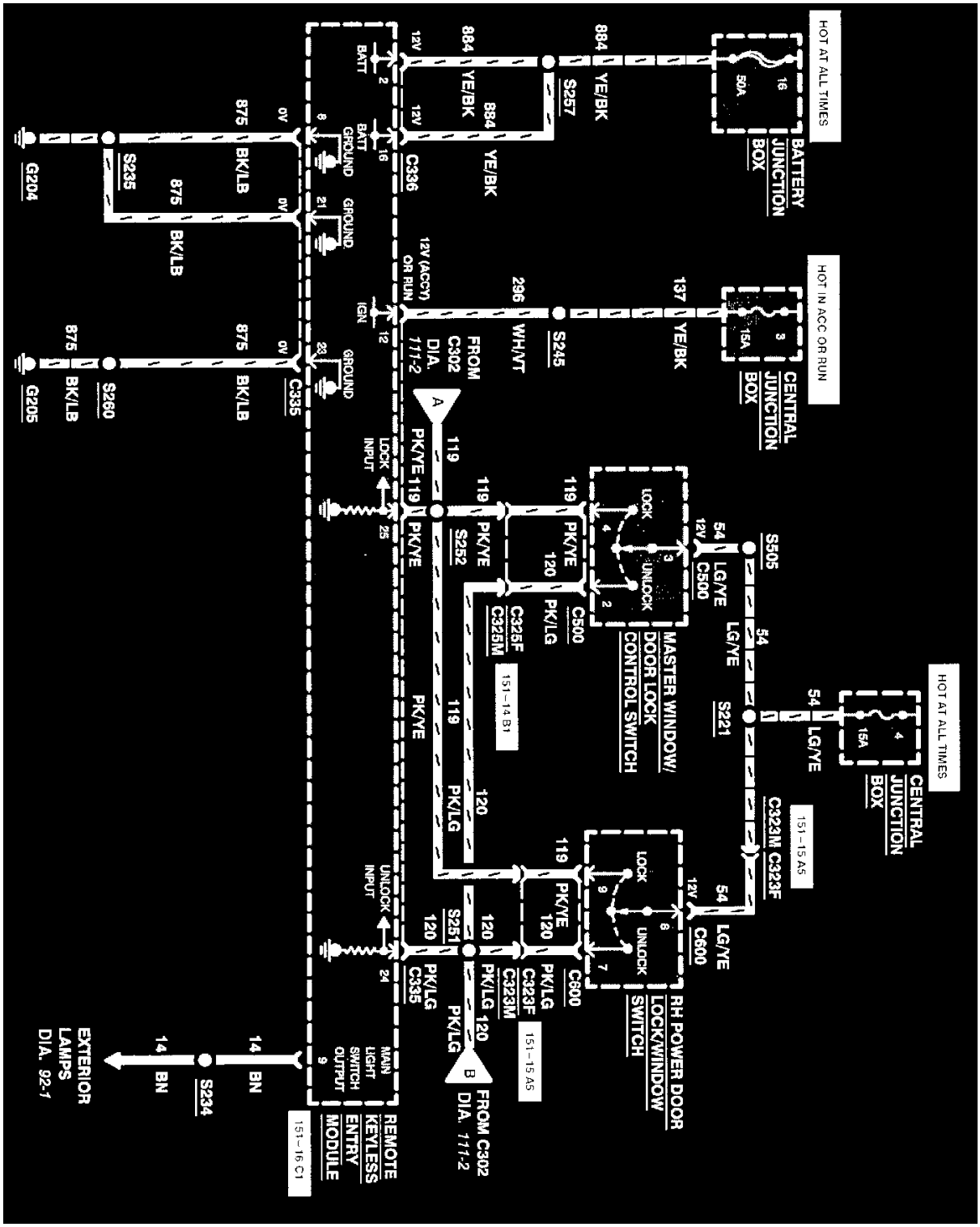


Diagram 111-1

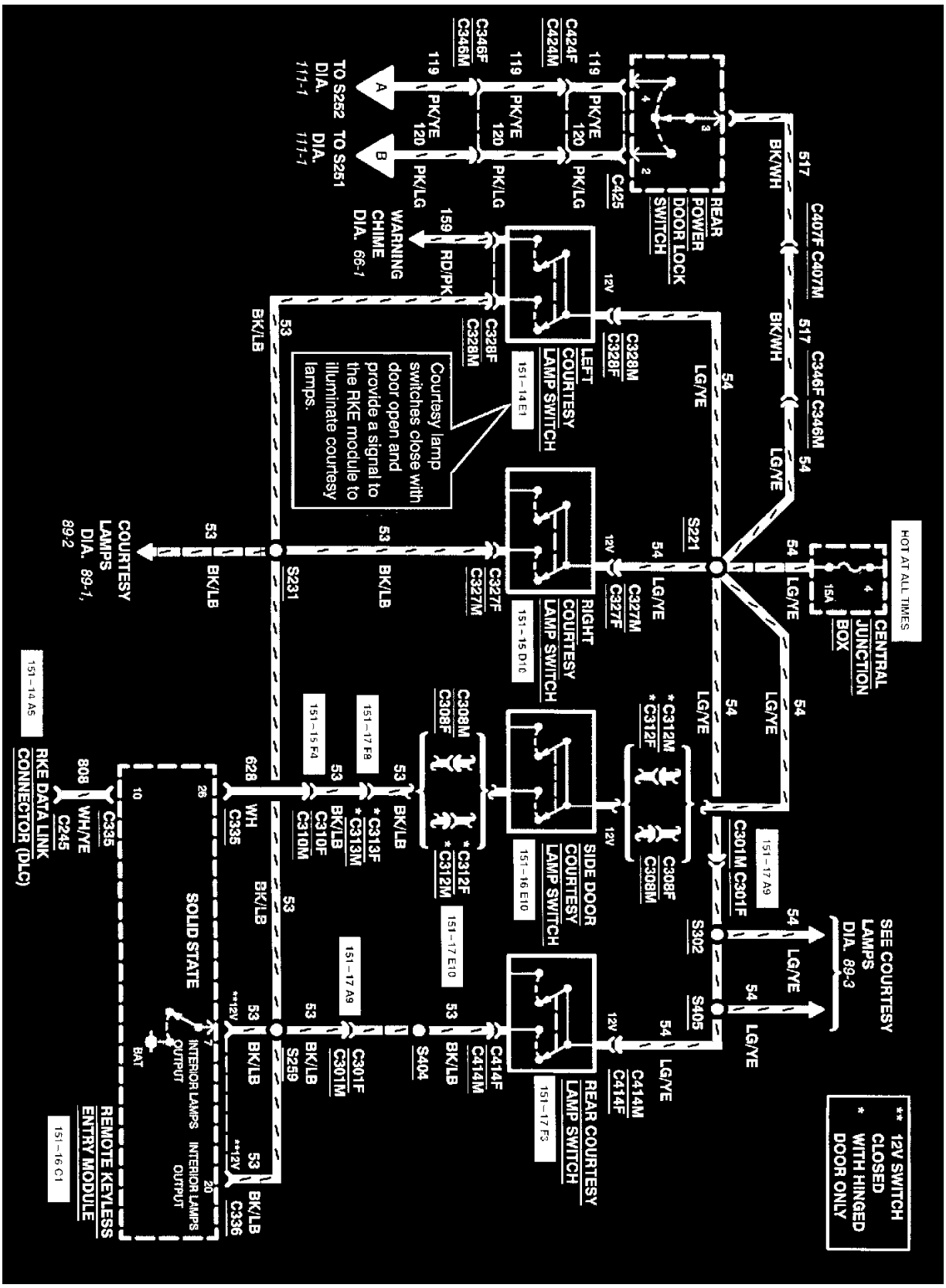


Diagram 111-2

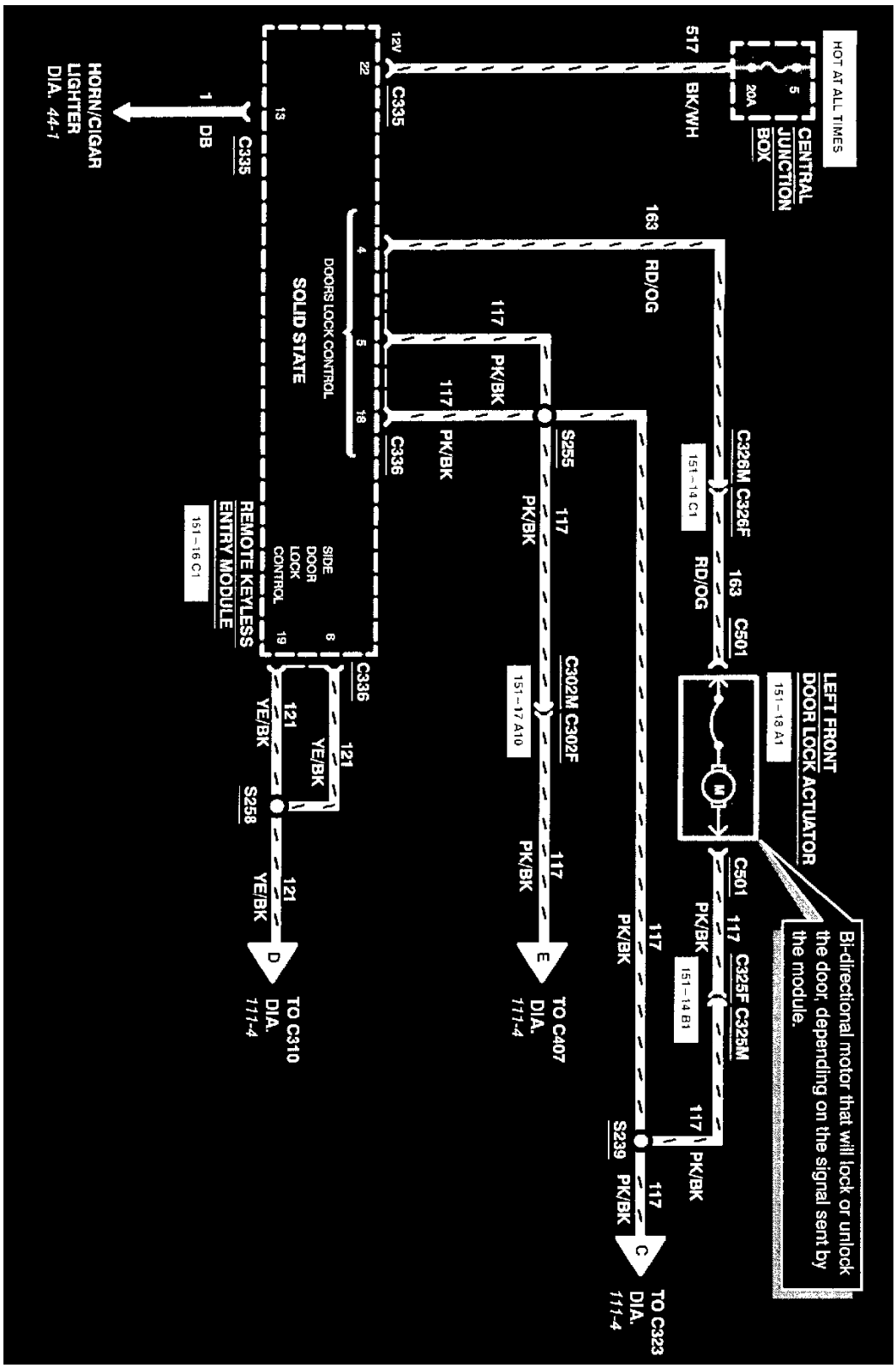


Diagram 111-3

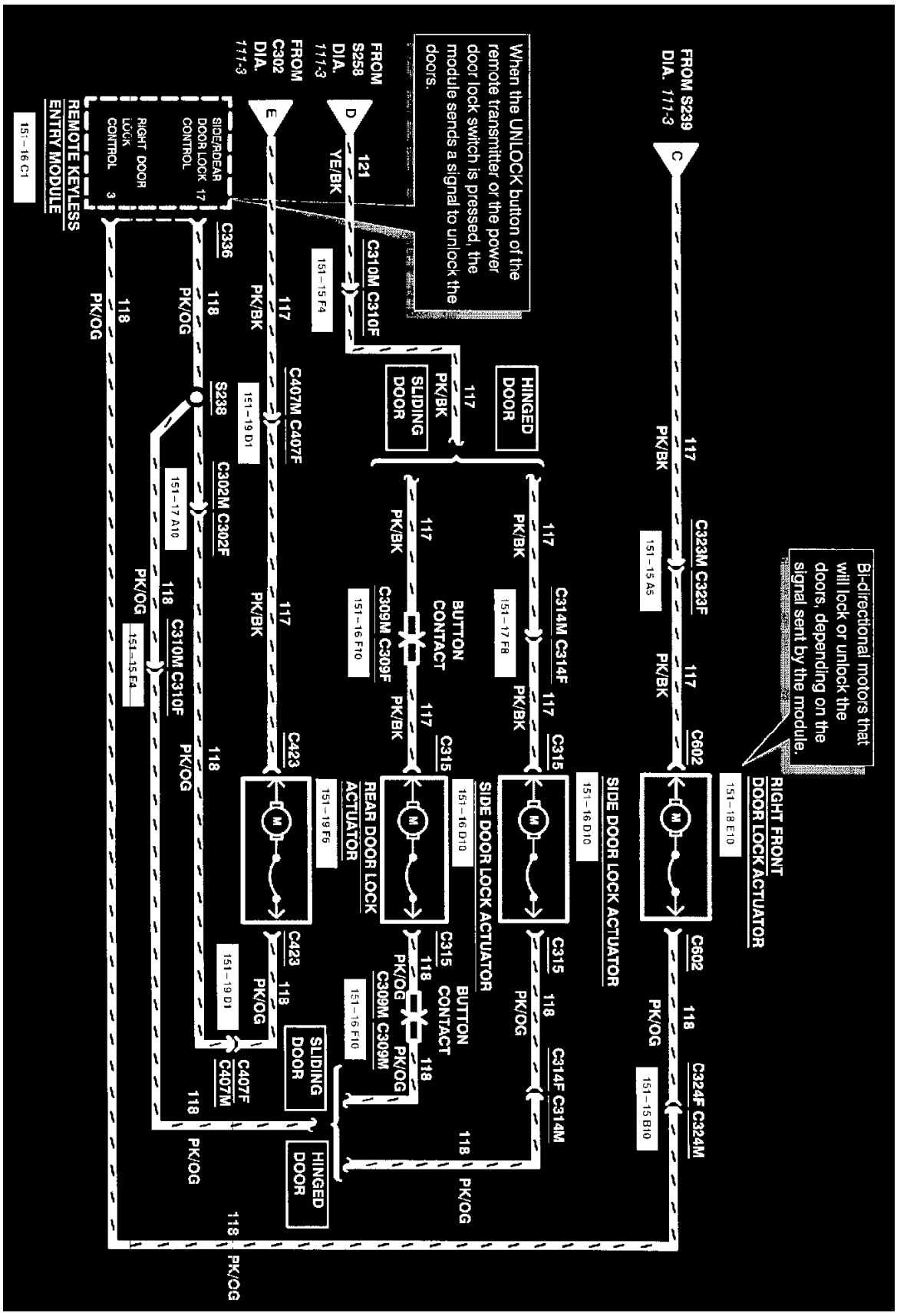


Diagram 111-4

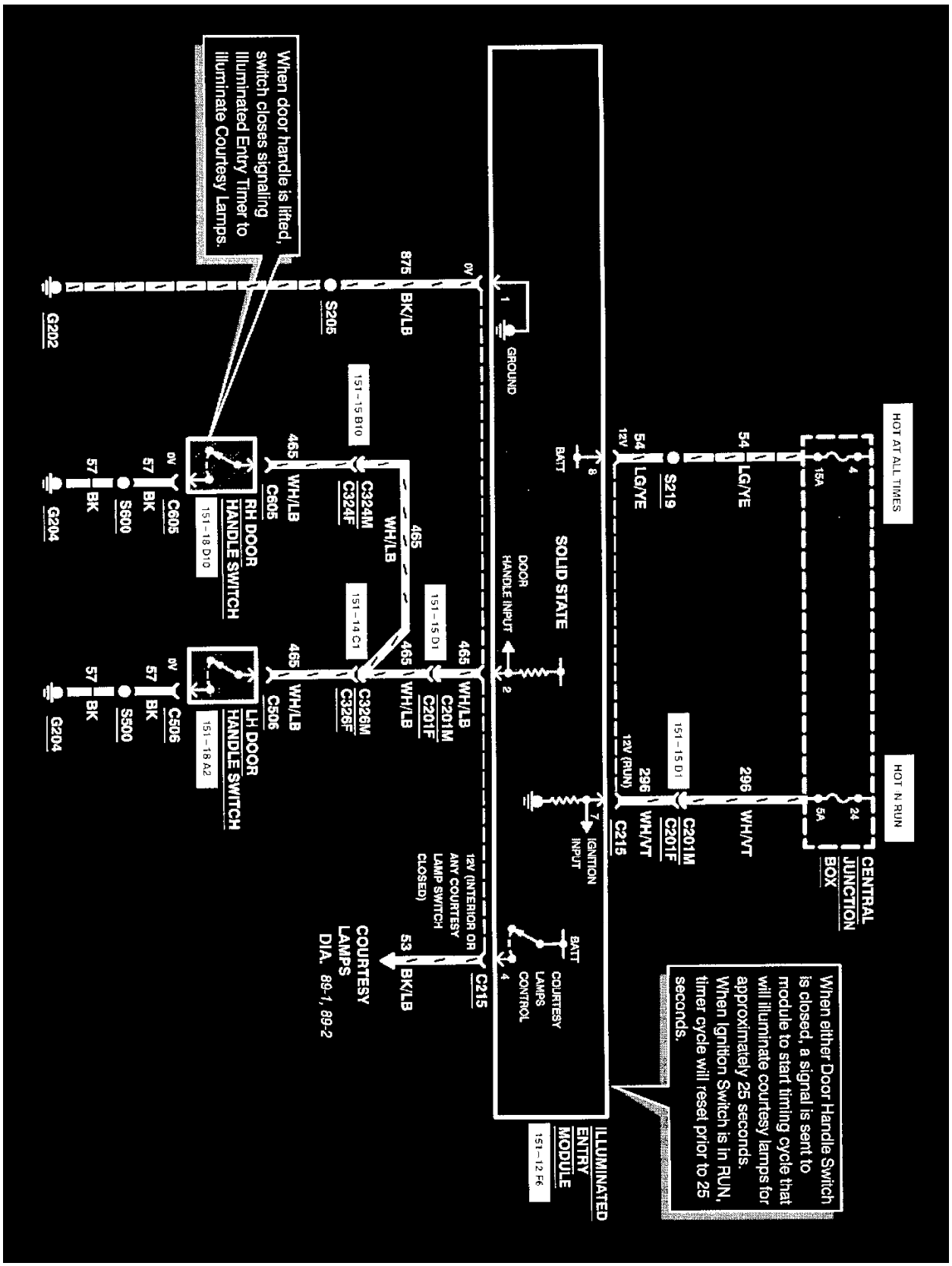

HOT AT ALL TIMES
HOT IN RUN
CENTRAL JUNCTION BOX
15A
5A
54 LG/YE
S219
296 WH/VT
C201M
C201F
C215
151-15 D1
12V (RUN)
BATT
SOLID STATE
DOOR HANDLE INPUT
IGNITION INPUT
When either Door Handle Switch is closed, a signal is sent to module to start timing cycle that will illuminate courtesy lamps for approximately 25 seconds. When Ignition Switch is in RUN, timer cycle will reset prior to 25 seconds.
ILLUMINATED ENTRY MODULE
151-12 F6
COURTESY LAMPS CONTROL
12V (INTERIOR OR ANY COURTESY LAMP SWITCH CLOSED)
53 BK/LB
COURTESY LAMPS DIA. 89-1, 89-2
When door handle is lifted, switch closes signaling Illuminated Entry Timer to illuminate Courtesy Lamps.
GROUND
G202
875 BK/LB
S205
151-15 B10
465 WH/LB
C324M
C324F
C605
RH DOOR HANDLE SWITCH
151-18 D10
S600
G204
C326M
C326F
C201M
C201F
151-15 D1
151-14 C1
C506
LH DOOR HANDLE SWITCH
151-18 A2
S500

Diagram 94-1

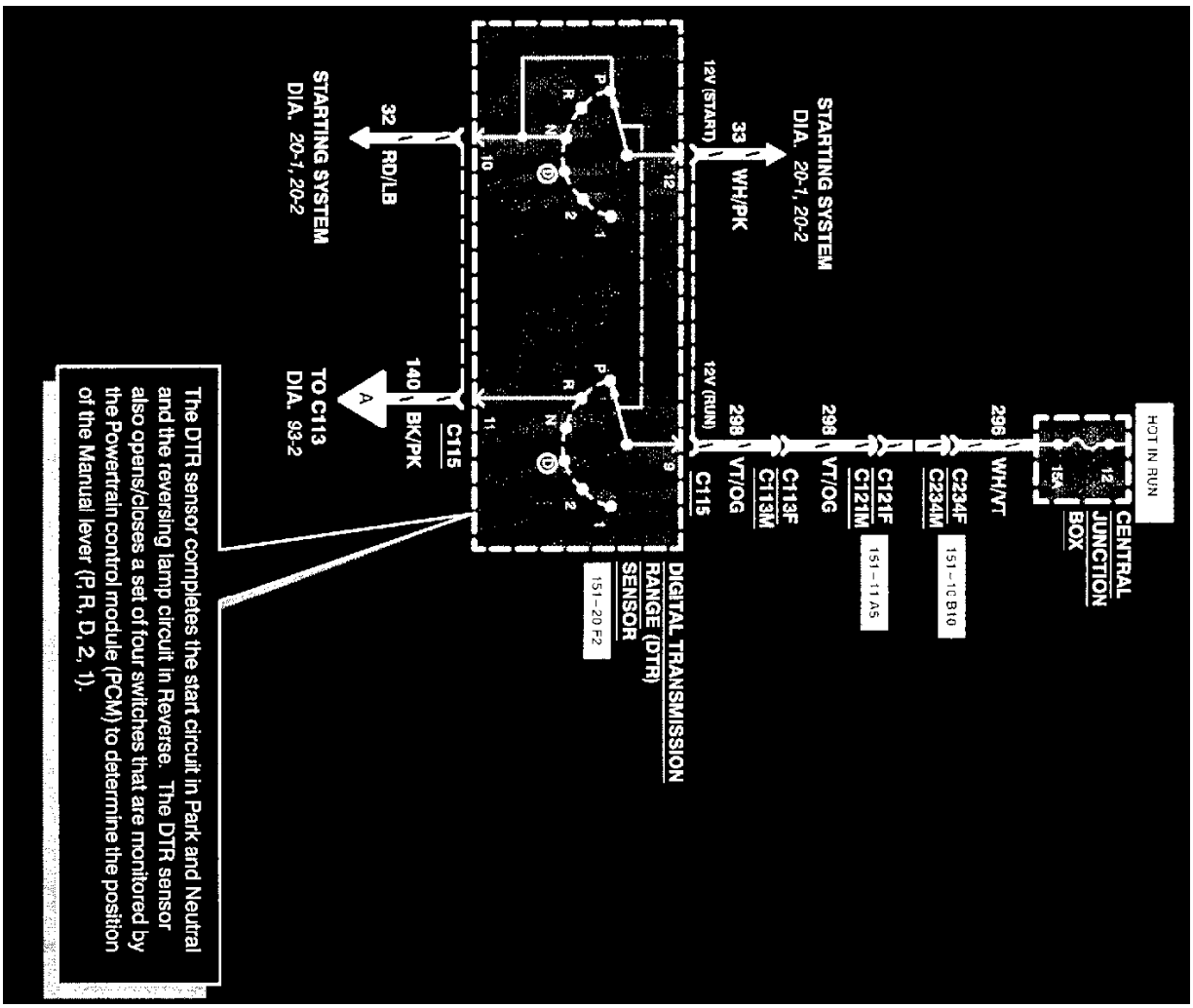

HOT IN RUN
CENTRAL JUNCTION BOX
13
15
296 WH/VT
C234F
C234M
151-10 B10
298 VT/OG
C121F
C121M
151-11 A5
298 VT/OG
C113F
C113M
C115
12V (RUN)
9
DIGITAL TRANSMISSION RANGE (DTR) SENSOR
151-20 F2
STARTING SYSTEM
DIA. 20-1, 20-2
33 WH/PK
12V (START)
12
32 RD/LB
STARTING SYSTEM
DIA. 20-1, 20-2
10
C115
140 BK/PK
A
TO C113
DIA. 93-2
11
P
R
N
D
2
1
The DTR sensor completes the start circuit in Park and Neutral and the reversing lamp circuit in Reverse. The DTR sensor also opens/closes a set of four switches that are monitored by the Powertrain control module (PCM) to determine the position of the Manual lever (P, R, D, 2, 1).

Diagram 93-1

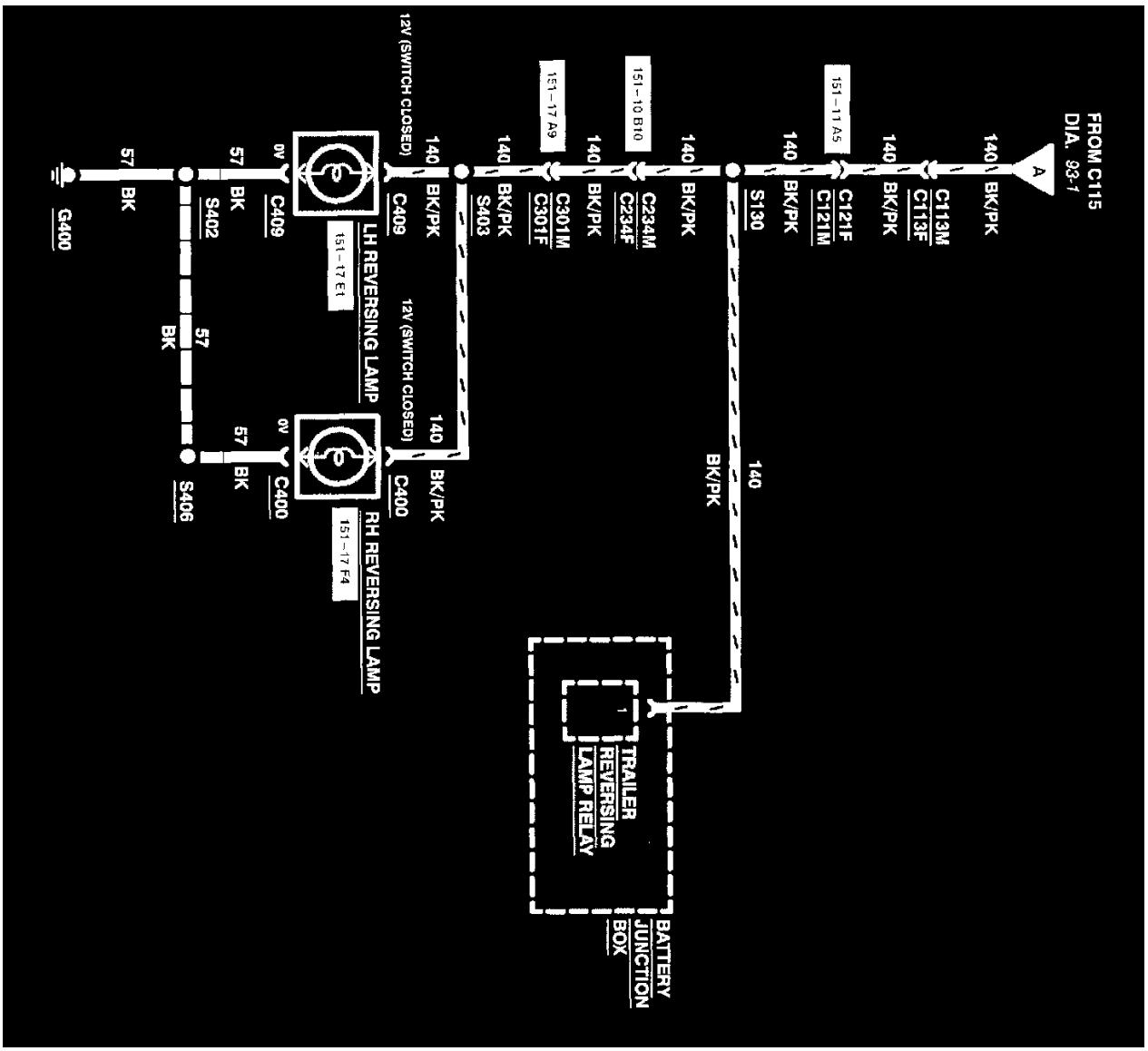


Diagram 93-2

Brake Lamp

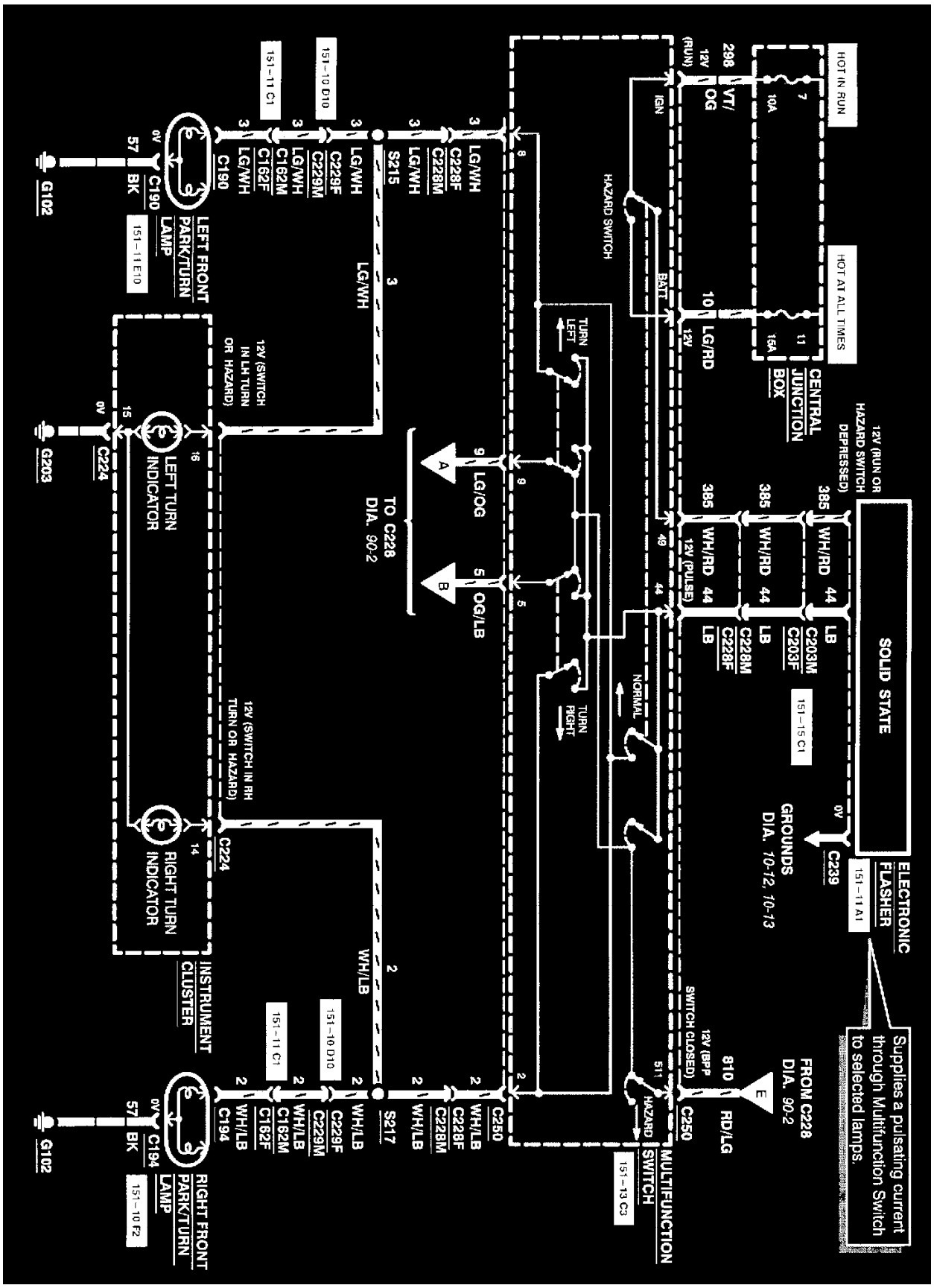

HOT IN RUN
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
SOLID STATE
ELECTRONIC FLASHER
151-11 A1
C239
GROUNDS DIA. 10-12, 10-13
FROM C228 DIA. 90-2
Supplies a pulsating current through Multifunction Switch to selected lamps.
MULTIFUNCTION SWITCH
151-13 C3
C250
HAZARD SWITCH
TURN LEFT
TURN RIGHT
NORMAL
HAZARD
BATT
IGN
12V (RUN OR HAZARD SWITCH DEPRESSED)
12V (RUN)
12V (PULSE)
12V (BPP SWITCH CLOSED)
TO C228 DIA. 90-2
12V (SWITCH IN LH TURN OR HAZARD)
12V (SWITCH IN RH TURN OR HAZARD)
LEFT FRONT PARK/TURN LAMP
RIGHT FRONT PARK/TURN LAMP
151-11 E10
151-10 F2
LEFT TURN INDICATOR
RIGHT TURN INDICATOR
INSTRUMENT CLUSTER
C190
C194
C224
S215
S217
C203M
C203F
C228M
C228F
C229F
C229M
C162M
C162F
151-10 D10
151-11 C1
151-15 C1
G102
G203
LG/WH
LG/RD
LG/OG
OG/LB
WH/RD
WH/LB
RD/LG
VT/OG
BK
LB

Diagram 90-1

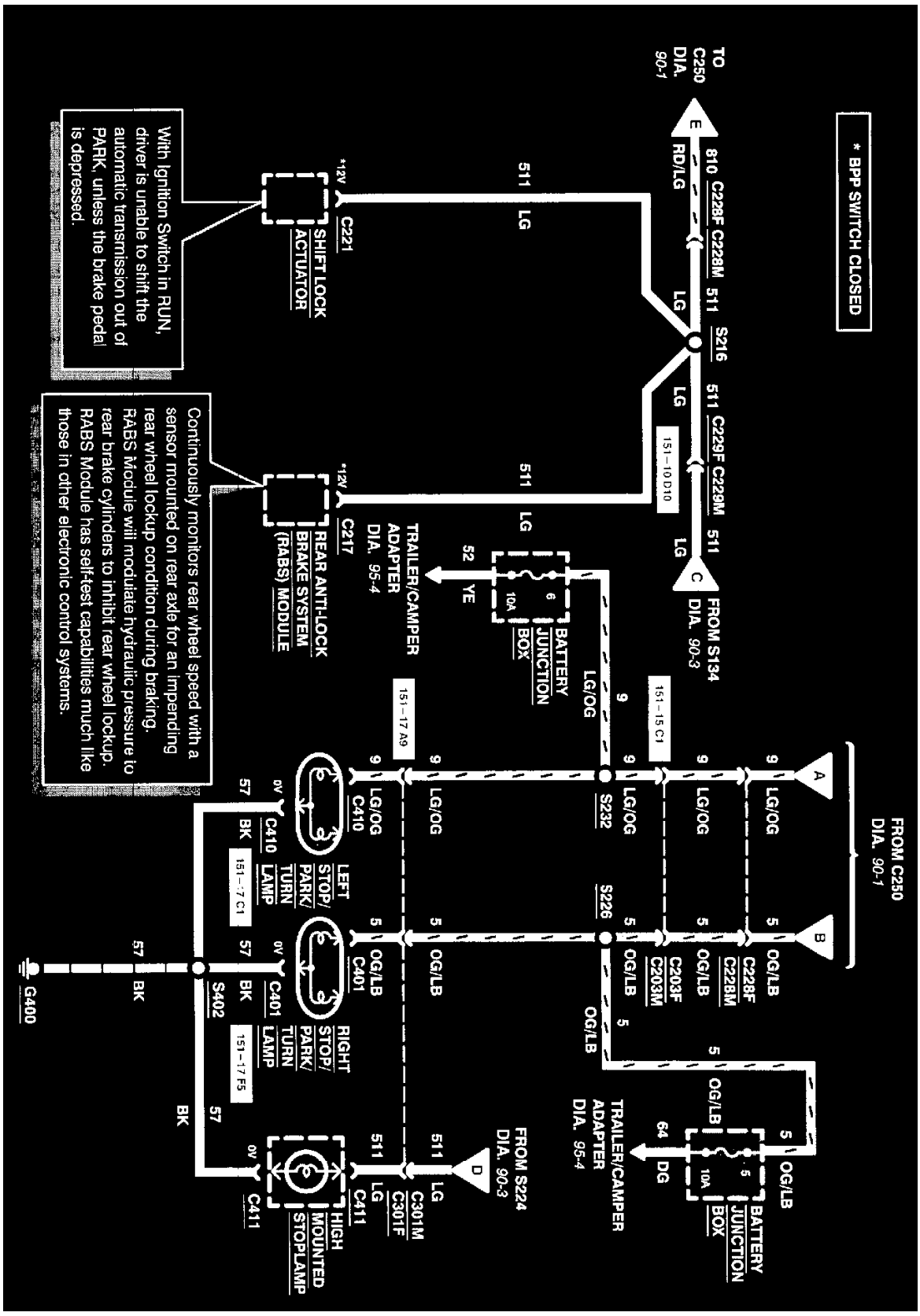

* BPP SWITCH CLOSED
TO C250 DIA. 90-1
E
RD/LG
810
C228F
C228M
511
LG
S216
511
LG
C229F
C229M
511
LG
C
FROM S134 DIA. 90-3
151-10 D10
151-15 C1
511
LG
*12V
C221
SHIFT LOCK ACTUATOR
With Ignition Switch in RUN, driver is unable to shift the automatic transmission out of PARK, unless the brake pedal is depressed.
511
LG
*12V
C217
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
Continuously monitors rear wheel speed with a sensor mounted on rear axle for an impending rear wheel lockup condition during braking. RABS Module will modulate hydraulic pressure to rear brake cylinders to inhibit rear wheel lockup. RABS Module has self-test capabilities much like those in other electronic control systems.
TRAILER/CAMPER ADAPTER DIA. 95-4
52
YE
LG
10A
6
BATTERY JUNCTION BOX
LG/OG
9
S232
151-17 A9
9
LG/OG
C410
0V
57
BK
C410
LEFT STOP/ PARK/ TURN LAMP
151-7 C1
9
LG/OG
9
LG/OG
S226
5
OG/LB
C401
0V
57
BK
C401
RIGHT STOP/ PARK/ TURN LAMP
151-17 F5
S402
57
BK
G400
FROM C250 DIA. 90-1
A
9
LG/OG
9
LG/OG
B
5
OG/LB
C228F
C228M
OG/LB
5
C203F
C203M
OG/LB
5
OG/LB
5
OG/LB
TRAILER/CAMPER ADAPTER DIA. 95-4
64
DG
5
10A
BATTERY JUNCTION BOX
OG/LB
FROM S224 DIA. 90-3
D
511
LG
C301M
C301F
511
LG
C411
0V
C411
HIGH MOUNTED STOPLAMP

Diagram 90-2

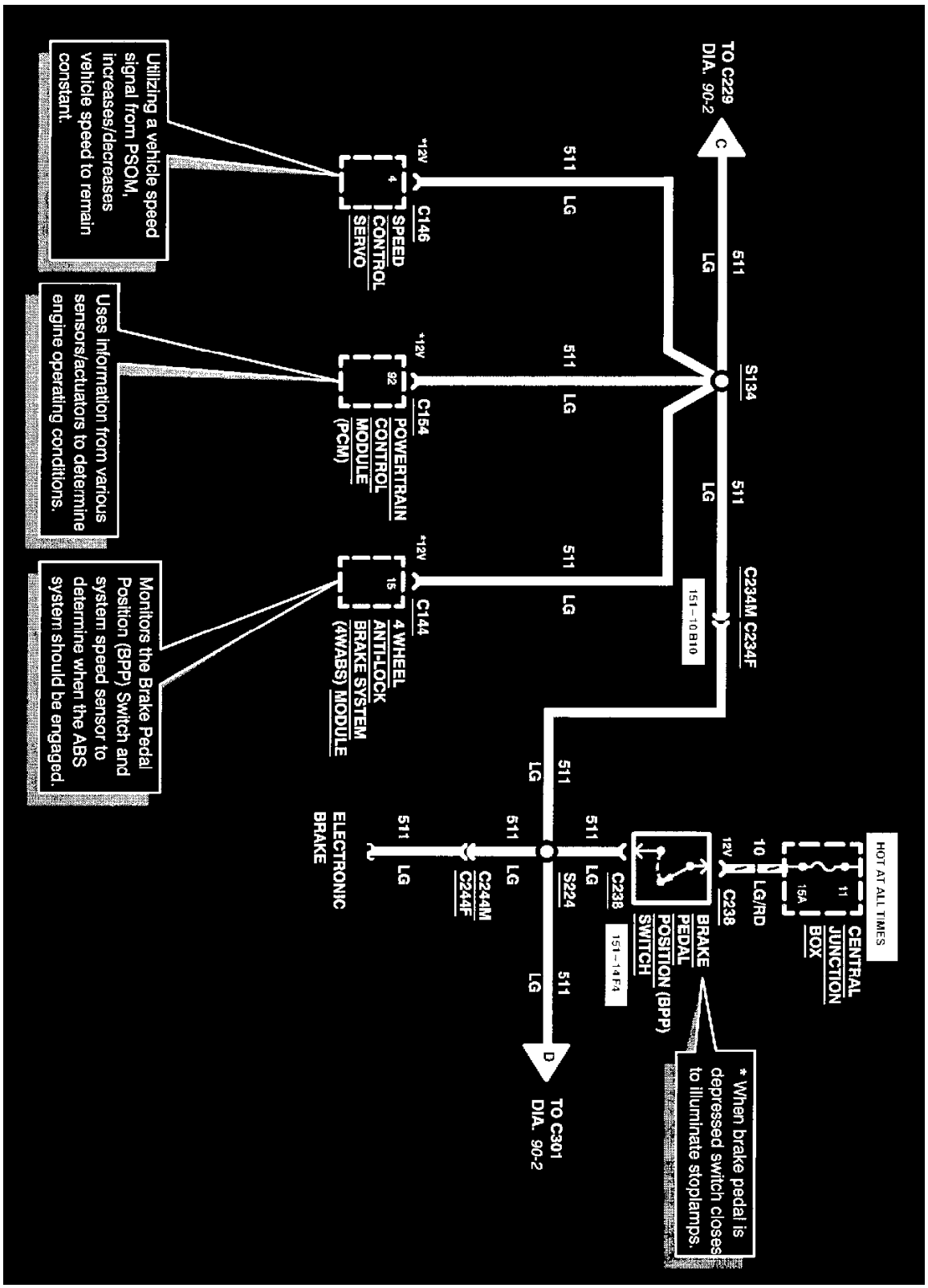


Diagram 90-3

Courtesy Lamp

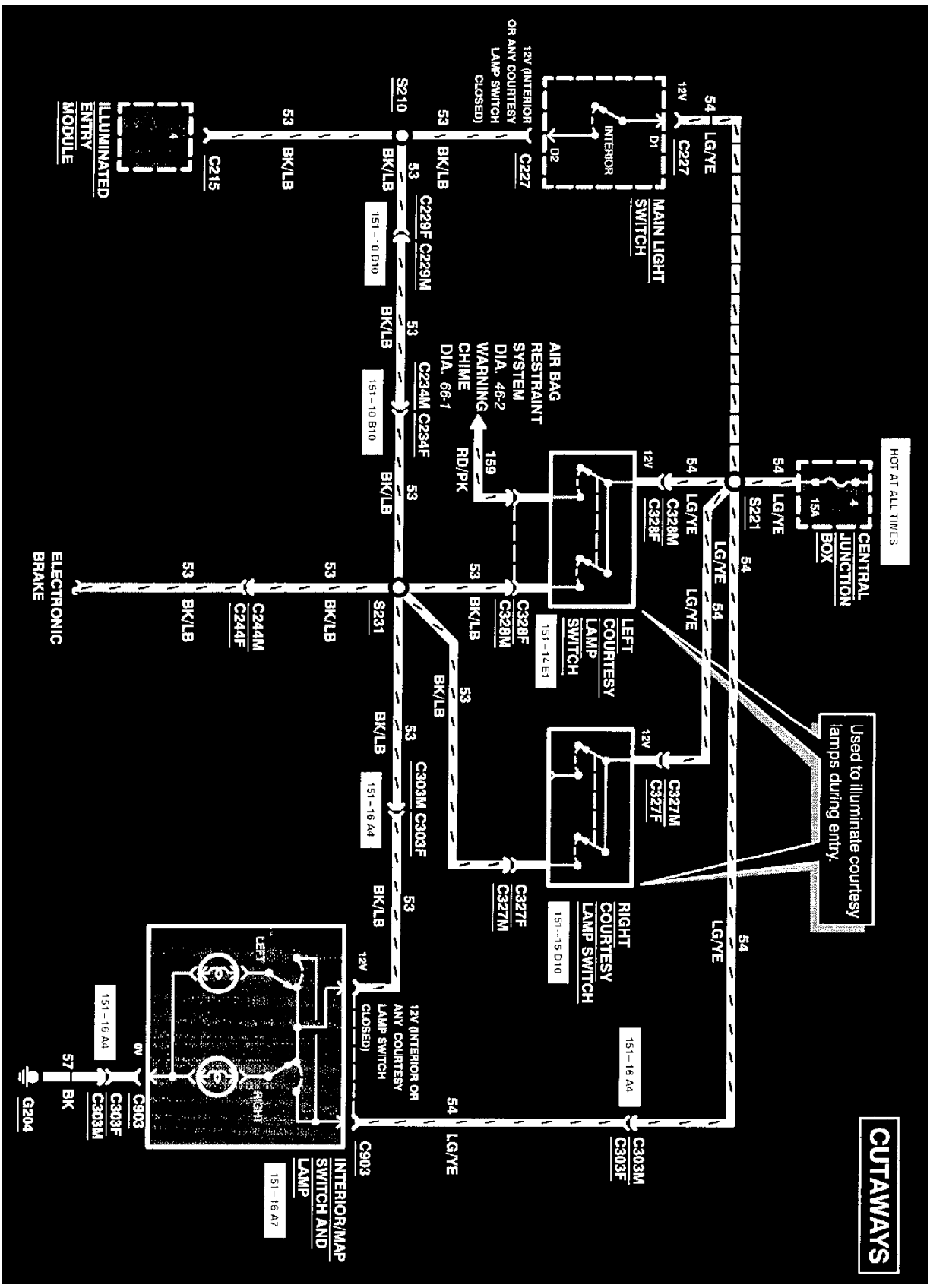

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
Used to illuminate courtesy lamps during entry.
CUTAWAYS
ILLUMINATED ENTRY MODULE
ELECTRONIC BRAKE
MAIN LIGHT SWITCH
INTERIOR
AIR BAG RESTRAINT SYSTEM DIA. 46-2
WARNING CHIME DIA. 66-1
LEFT COURTESY LAMP SWITCH
RIGHT COURTESY LAMP SWITCH
12V (INTERIOR OR ANY COURTESY LAMP SWITCH CLOSED)
INTERIOR/MAP SWITCH AND LAMP
LEFT
RIGHT
C227
C215
S210
C229F C229M
C234M C234F
C328F C328M
C328M C328F
S221
S231
C327M C327F
C327F C327M
C303M C303F
C303F C303M
C903
C244M C244F
G204
151-10 D10
151-10 B10
151-14 E1
151-15 D10
151-16 A4
151-16 A7
LG/YE
BK/LB
RD/PK
BK
54
53
159
57
0V
12V

Diagram 89-1

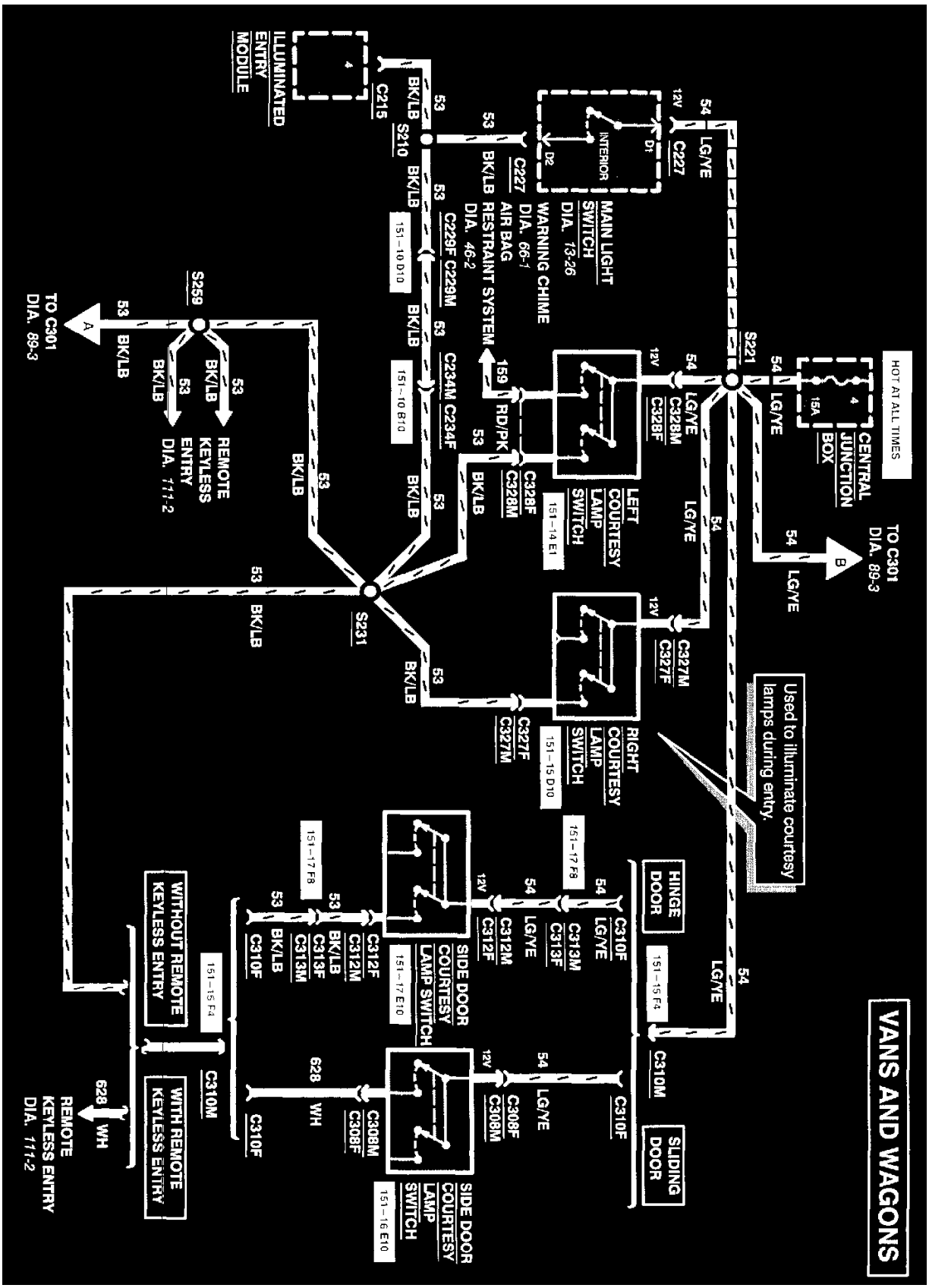

VANS AND WAGONS
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
15A
TO C301 DIA. 89-3
S221
LG/YE
54
12V
C227
INTERIOR
D1
D2
MAIN LIGHT SWITCH DIA. 13-26
WARNING CHIME
C328M
C328F
LEFT COURTESY LAMP SWITCH
151-14 E1
C327M
C327F
RIGHT COURTESY LAMP SWITCH
151-15 D10
Used to illuminate courtesy lamps during entry.
HINGE DOOR
SLIDING DOOR
151-15 F4
C310M
C310F
C308M
C308F
SIDE DOOR COURTESY LAMP SWITCH
151-16 E10
151-17 F8
C312M
C312F
C313M
C313F
SIDE DOOR COURTESY LAMP SWITCH
151-17 E10
WITHOUT REMOTE KEYLESS ENTRY
WITH REMOTE KEYLESS ENTRY
628
WH
REMOTE KEYLESS ENTRY DIA. 111-2
AIR BAG RESTRAINT SYSTEM DIA. 46-2
C229F
C229M
C234M
C234F
159
RD/PK
BK/LB
53
151-10 D10
151-10 B10
S210
C215
ILLUMINATED ENTRY MODULE
S231
S259
REMOTE KEYLESS ENTRY DIA. 111-2
TO C301 DIA. 89-3

Diagram 89-2

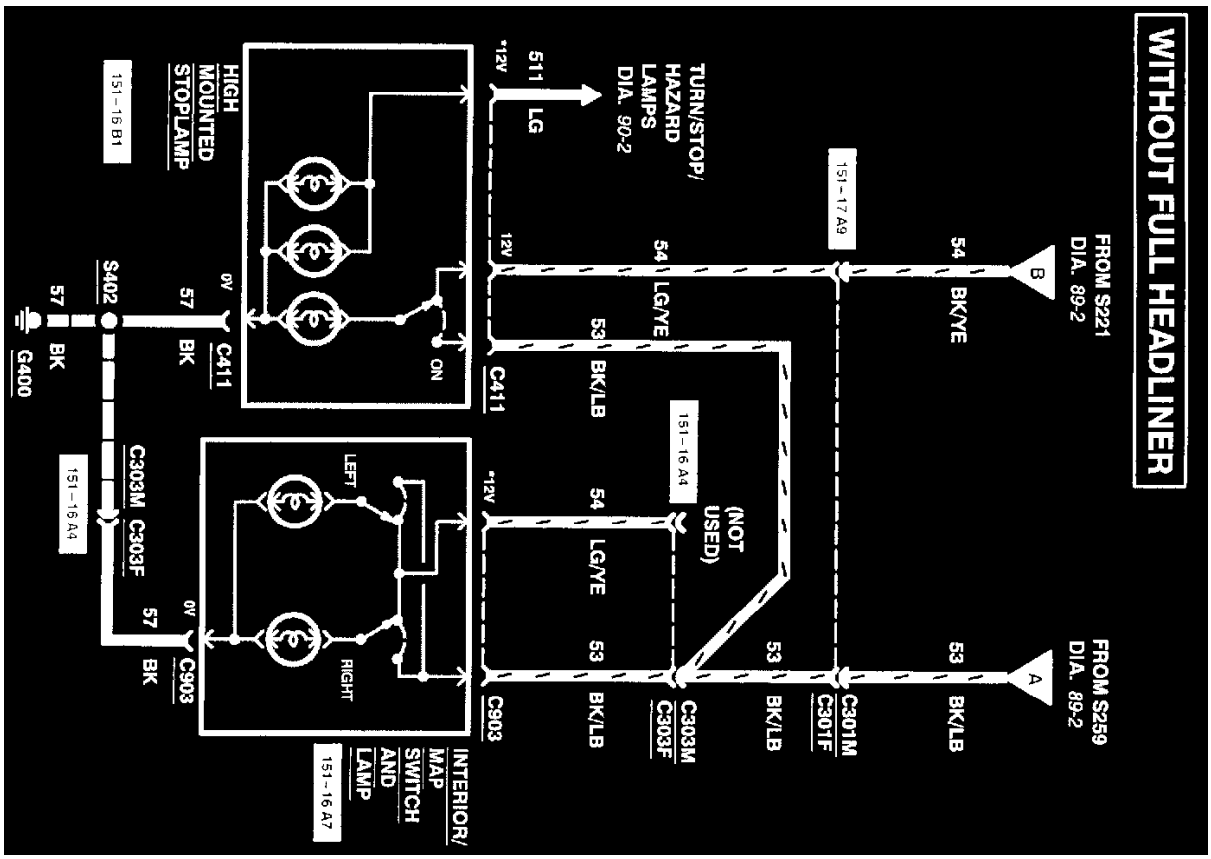


Diagram 89-3

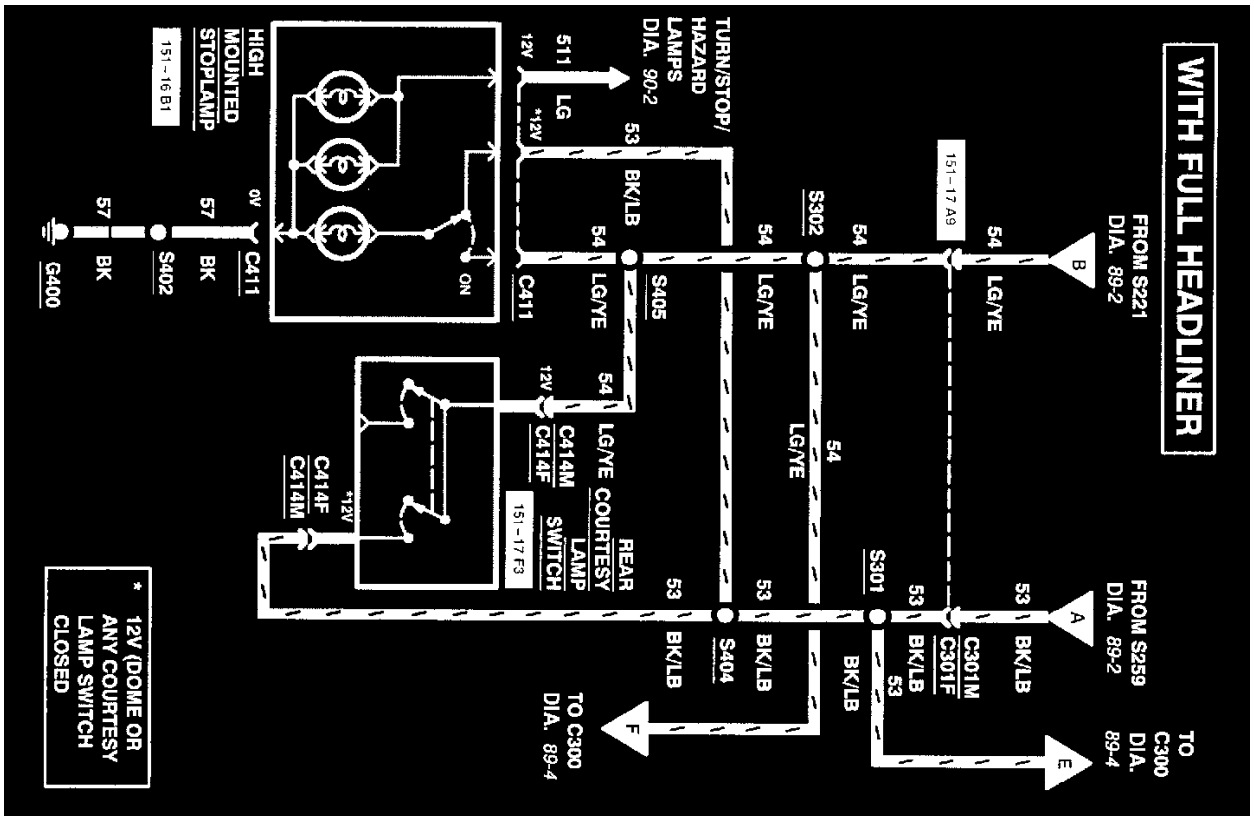


Diagram 89-3

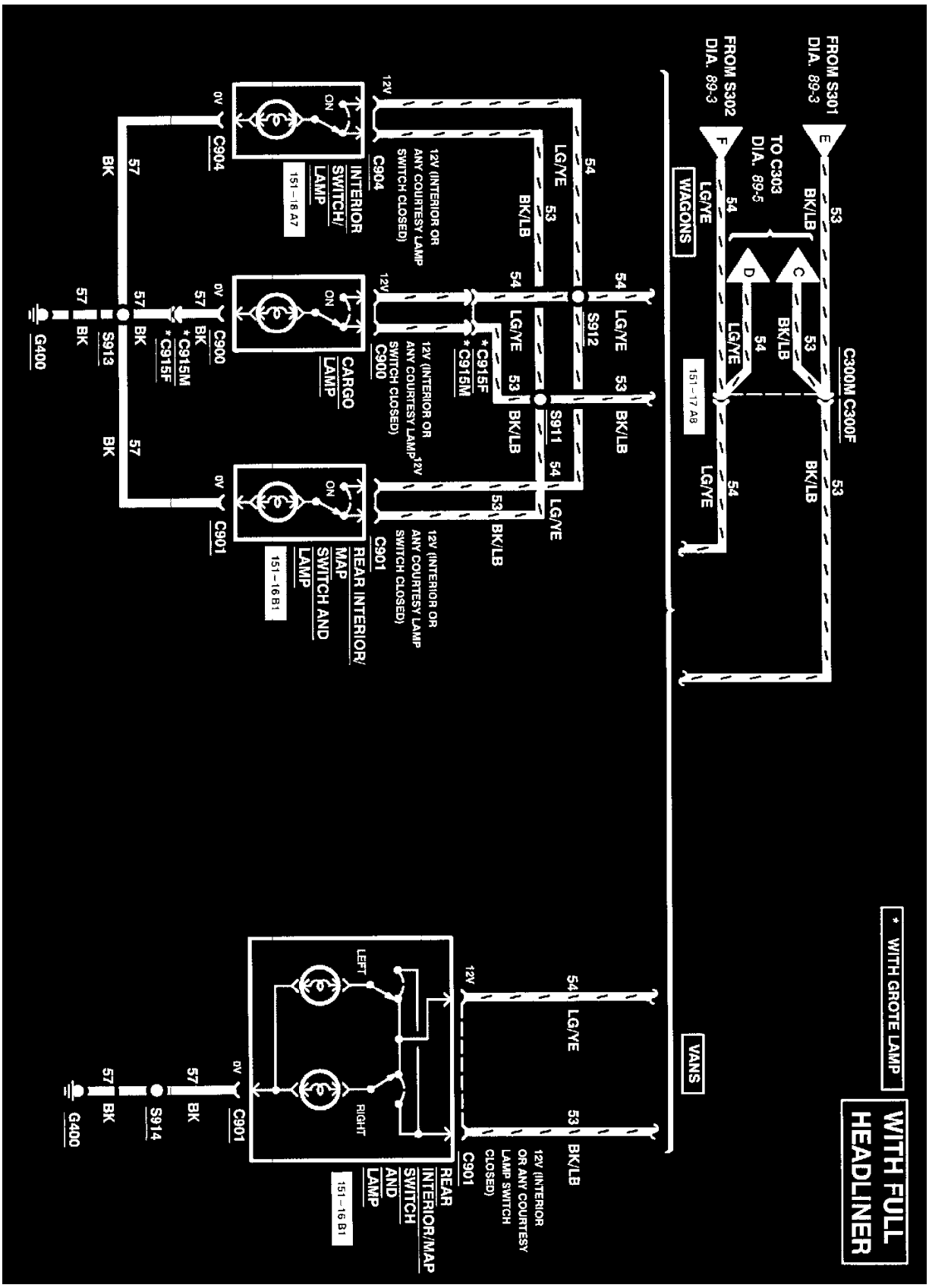

WITH FULL HEADLINER
* WITH GROTE LAMP
FROM S301
DIA. 89-3
TO C303
DIA. 89-5
FROM S302
DIA. 89-3
C300M
C300F
WAGONS
VANS
151-17 A8
INTERIOR SWITCH/ LAMP
151-16 A7
CARGO LAMP
REAR INTERIOR/ MAP SWITCH AND LAMP
151-16 B1
REAR INTERIOR/MAP SWITCH AND LAMP
151-16 B1
12V (INTERIOR OR ANY COURTESY LAMP SWITCH CLOSED)
12V (INTERIOR OR ANY COURTESY LAMP SWITCH CLOSED)
12V (INTERIOR OR ANY COURTESY LAMP SWITCH CLOSED)
12V (INTERIOR OR ANY COURTESY LAMP SWITCH CLOSED)
LEFT
RIGHT
ON
C904
C900
C901
C915F
C915M
S911
S912
S913
S914
G400

Diagram 89-4

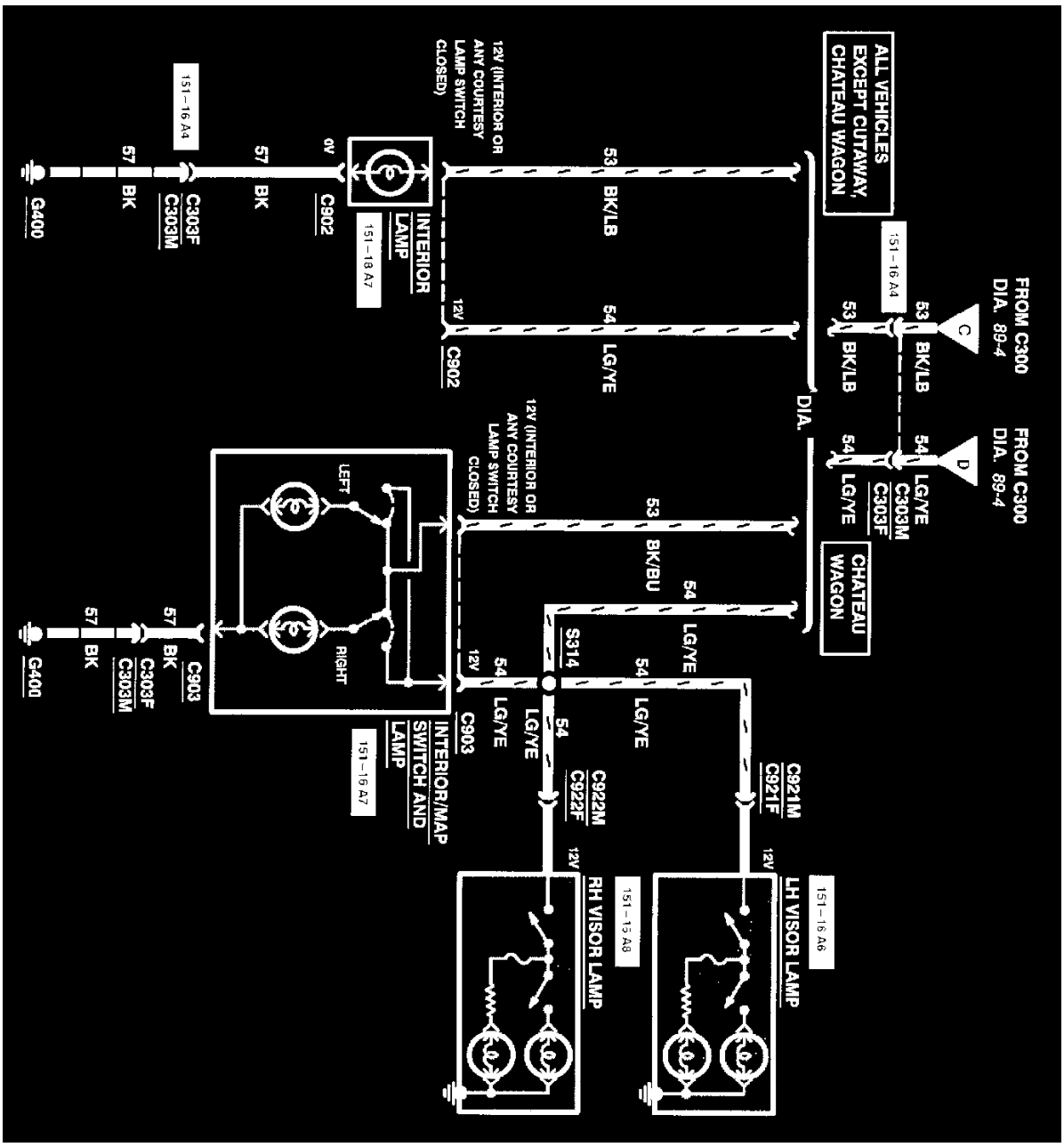

FROM C300
DIA. 89-4
FROM C300
DIA. 89-4
ALL VEHICLES
EXCEPT CUTAWAY,
CHATEAU WAGON
CHATEAU
WAGON
DIA.
151-16 A4
151-16 A4
C303F
C303M
C902
INTERIOR
LAMP
151-18 A7
12V (INTERIOR OR
ANY COURTESY
LAMP SWITCH
CLOSED)
12V (INTERIOR OR
ANY COURTESY
LAMP SWITCH
CLOSED)
BK/LB
LG/YE
BK/BU
S314
C903
INTERIOR/MAP
SWITCH AND
LAMP
151-16 A7
LEFT
RIGHT
C921M
C921F
C922M
C922F
LH VISOR LAMP
RH VISOR LAMP
151-16 A6
151-15 A8
G400
12V
0V

Diagram 89-5

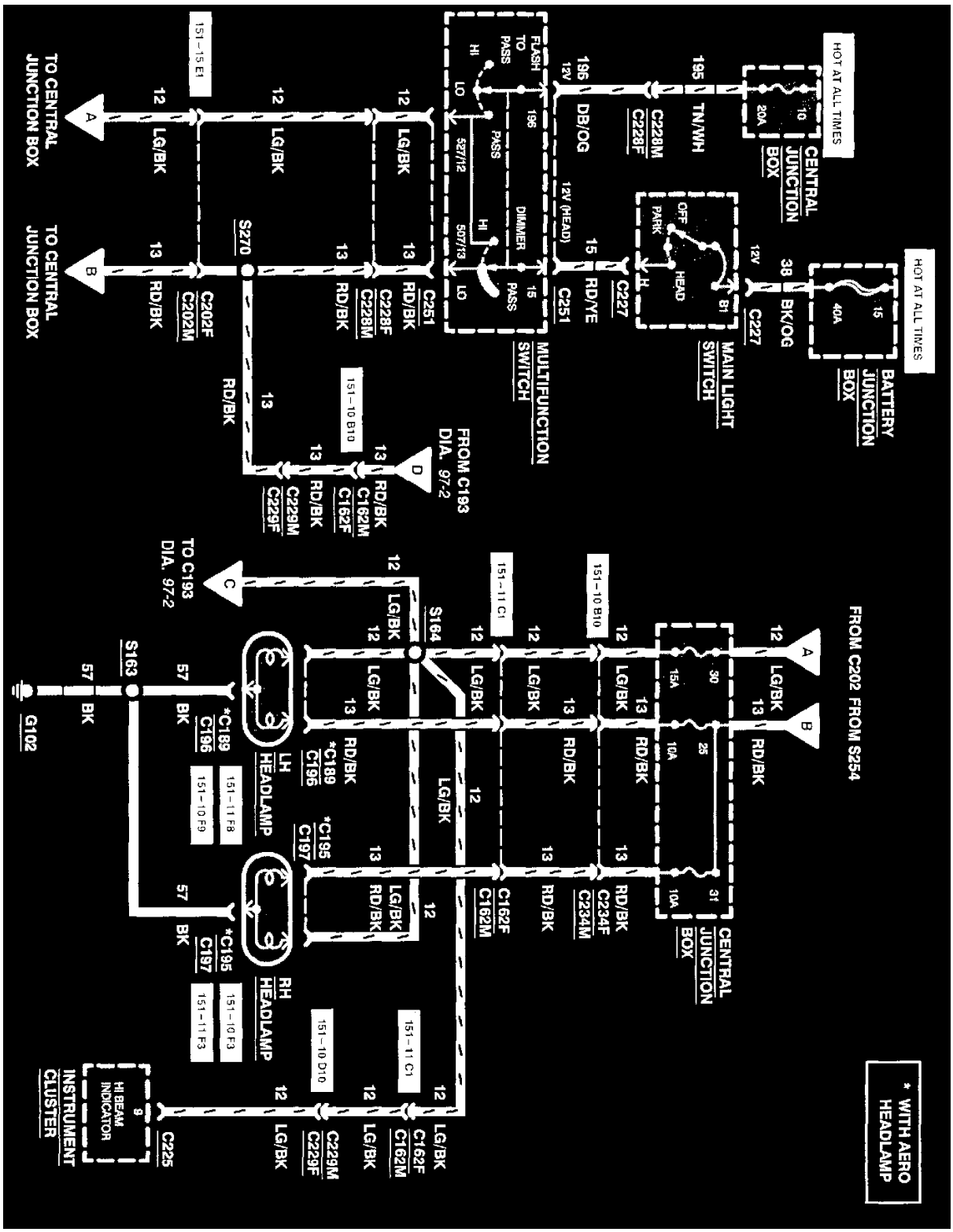

HOT AT ALL TIMES
BATTERY JUNCTION BOX
CENTRAL JUNCTION BOX
MAIN LIGHT SWITCH
MULTIFUNCTION SWITCH
FLASH TO PASS
DIMMER
PASS
HEAD
PARK
OFF
HI
LO
FROM C202 FROM S254
FROM C193 DIA. 97-2
TO C193 DIA. 97-2
TO CENTRAL JUNCTION BOX
LH HEADLAMP
RH HEADLAMP
INSTRUMENT CLUSTER
HI BEAM INDICATOR
* WITH AERO HEADLAMP
G102
S163
S164
S270
C202F
C202M
C225
C227
C228F
C228M
C229F
C229M
C234F
C234M
C251
C162F
C162M
C189
C195
C196
C197
TN/WH
DB/OG
RD/YE
BK/OG
LG/BK
RD/BK
BK
151-10 B10
151-11 C1
151-15 E1
151-10 F9
151-11 F8
151-10 F3
151-11 F3
151-10 D10

Diagram 97-1

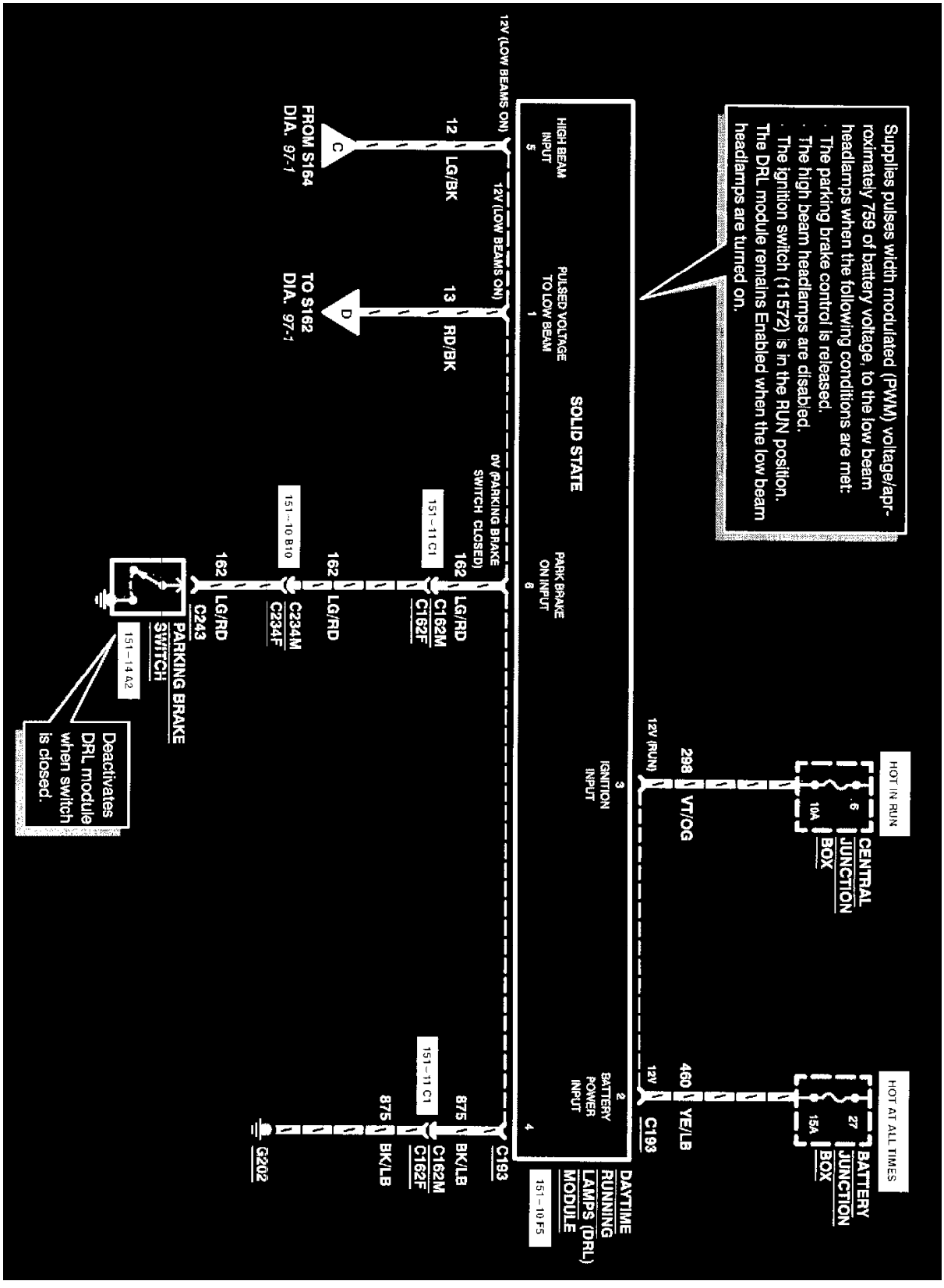


Diagram 97-2

Hazard Warning Lamps

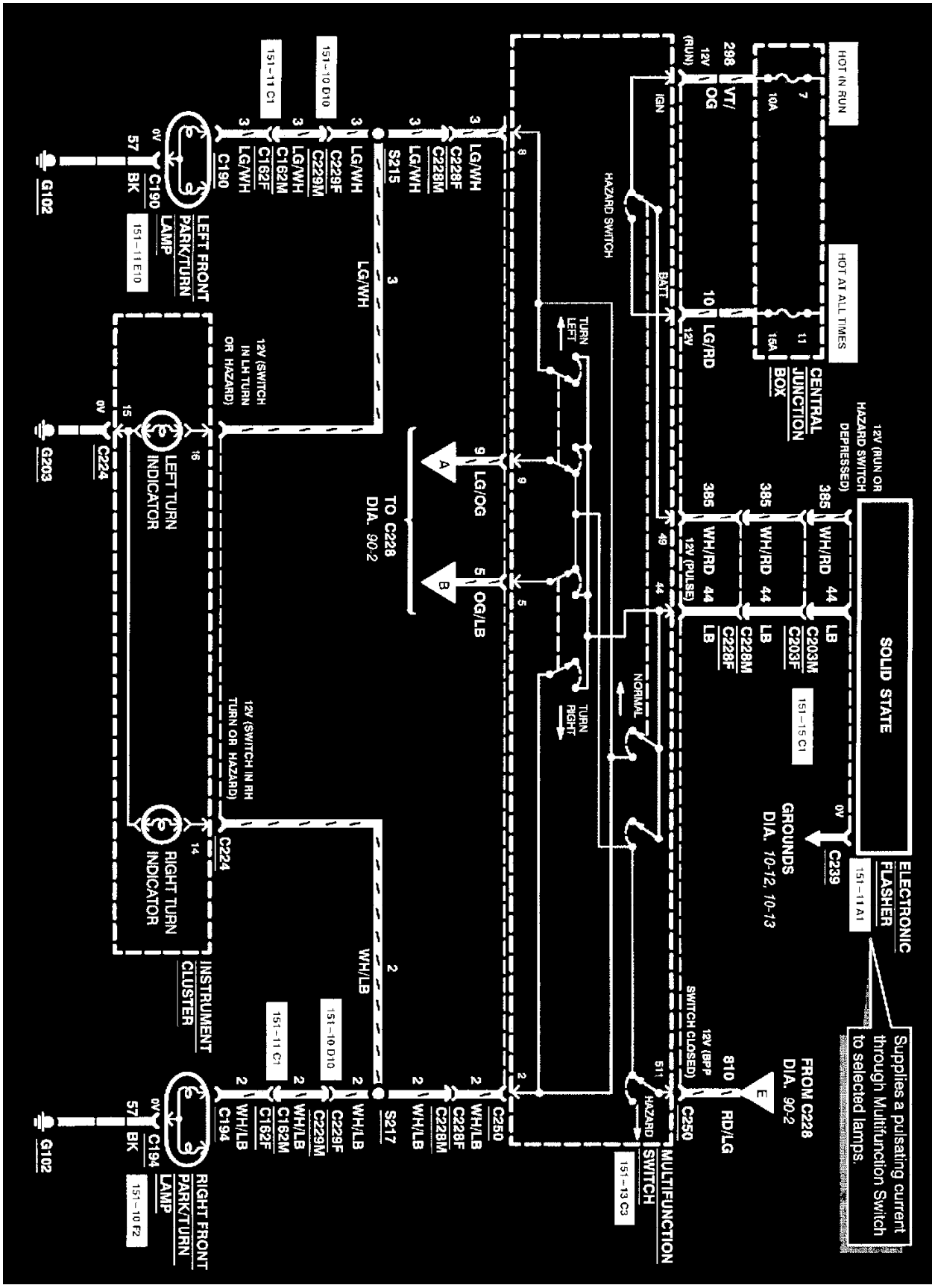

HOT IN RUN
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
10A
15A
298 VT/OG
LG/RD
12V (RUN)
12V
IGN
BATT
HAZARD SWITCH
TURN LEFT
TURN RIGHT
NORMAL
12V (RUN OR HAZARD SWITCH DEPRESSED)
385 WH/RD 44
385 WH/RD 44
385 WH/RD 44
12V (PULSE)
LB C203M C203F
LB C228M C228F
151-15 C1
SOLID STATE ELECTRONIC FLASHER
151-11 A1
C239
0V
GROUNDS DIA. 10-12, 10-13
Supplies a pulsating current through Multifunction Switch to selected lamps.
FROM C228 DIA. 90-2
810 RD/LG
12V (BPP SWITCH CLOSED)
511
HAZARD SWITCH
C250
MULTIFUNCTION SWITCH
151-13 C3
LG/WH C228F C228M LG/WH S215
LG/WH C229F C229M LG/WH C162M C162F LG/WH C190
151-10 D10
151-11 C1
LEFT FRONT PARK/TURN LAMP
C190 BK
151-11 E10
G102
LG/WH
12V (SWITCH IN LH TURN OR HAZARD)
C224
LEFT TURN INDICATOR
G203
LG/OG
OG/LB
TO C228 DIA. 90-2
12V (SWITCH IN RH TURN OR HAZARD)
RIGHT TURN INDICATOR
WH/LB
WH/LB C228F C228M WH/LB
WH/LB C229F C229M WH/LB C162M C162F WH/LB C194
WH/LB S217
INSTRUMENT CLUSTER
C194 BK
RIGHT FRONT PARK/TURN LAMP
151-10 F2
G102

Diagram 90-1

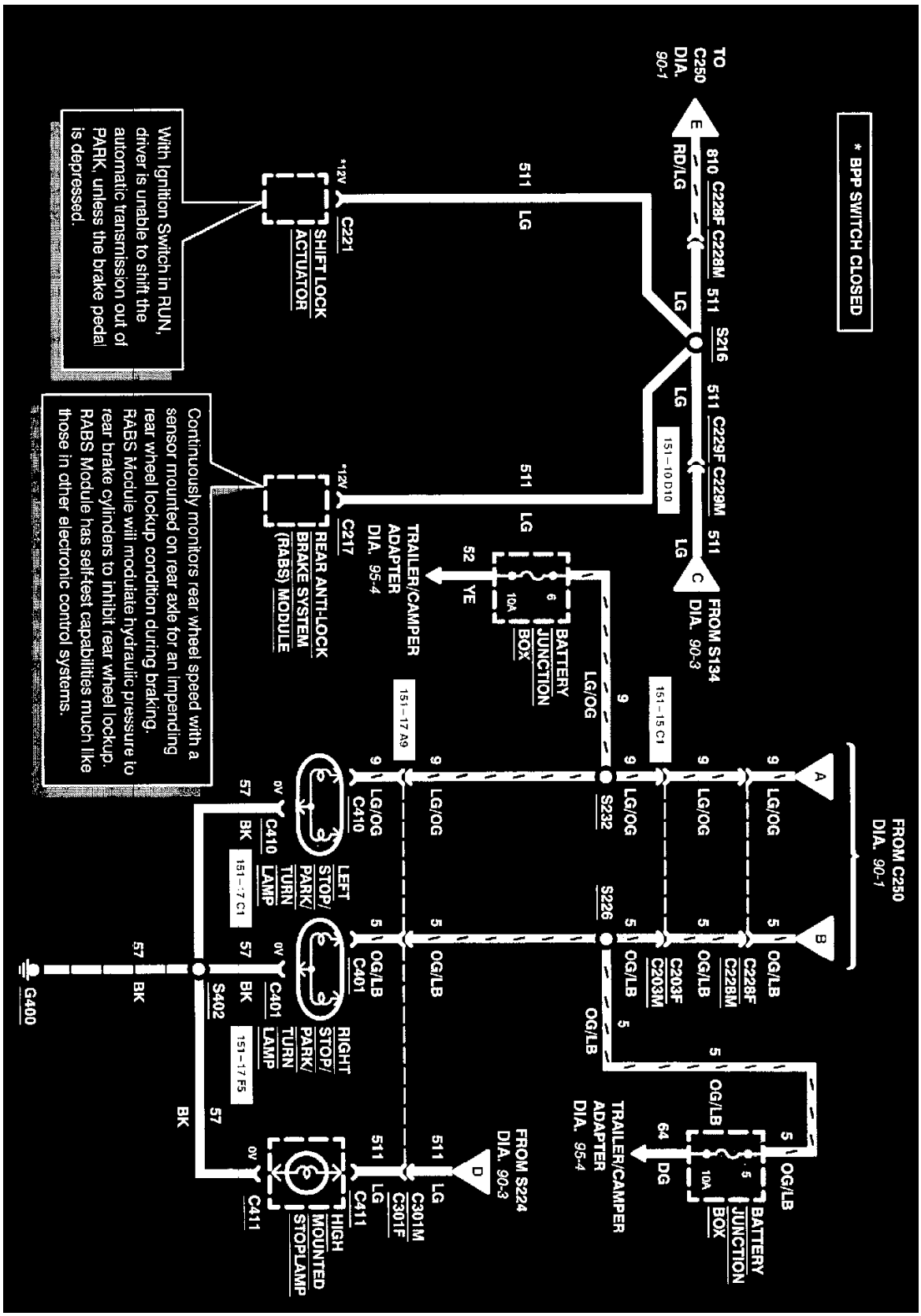

* BPP SWITCH CLOSED
TO C250 DIA. 90-1
E
RD/LG
810
C228F
C228M
511
LG
S216
511
LG
C229F
C229M
511
LG
C
FROM S134 DIA. 90-3
151-10 D10
151-15 C1
511
LG
*12V
C221
SHIFT LOCK ACTUATOR
With Ignition Switch in RUN, driver is unable to shift the automatic transmission out of PARK, unless the brake pedal is depressed.
511
LG
*12V
C217
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
Continuously monitors rear wheel speed with a sensor mounted on rear axle for an impending rear wheel lockup condition during braking. RABS Module will modulate hydraulic pressure to rear brake cylinders to inhibit rear wheel lockup. RABS Module has self-test capabilities much like those in other electronic control systems.
TRAILER/CAMPER ADAPTER DIA. 95-4
52
YE
LG
10A
6
BATTERY JUNCTION BOX
LG/OG
9
S232
151-17 A9
LG/OG
9
C410
0V
57
BK
C410
LEFT STOP/PARK/TURN LAMP
151-7 C1
57
BK
G400
9
LG/OG
9
LG/OG
S226
5
OG/LB
5
OG/LB
C203F
C203M
OG/LB
5
A
9
LG/OG
B
5
OG/LB
C228F
C228M
OG/LB
5
5
OG/LB
5
10A
BATTERY JUNCTION BOX
TRAILER/CAMPER ADAPTER DIA. 95-4
64
DG
FROM C250 DIA. 90-1
FROM S224 DIA. 90-3
D
511
LG
C301M
C301F
511
LG
C411
0V
C411
HIGH MOUNTED STOPLAMP
5
OG/LB
5
OG/LB
S402
57
BK
C401
0V
C401
RIGHT STOP/PARK/TURN LAMP
151-17 F5
57
BK
5
OG/LB
5
OG/LB
C401
OG/LB
5
OG/LB
5
OG/LB
57
BK

Diagram 90-2

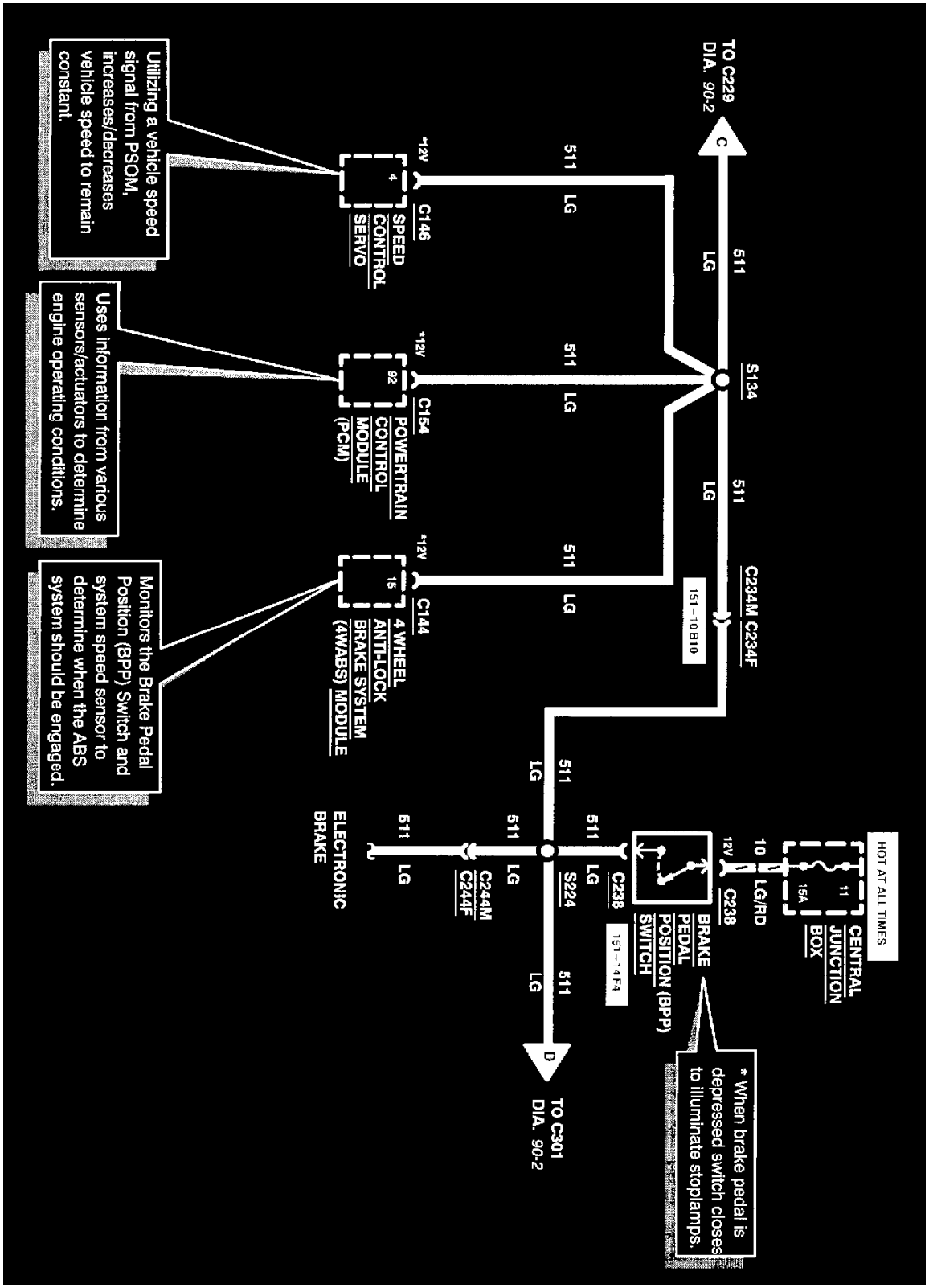

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
11
15A
10
LG/RD
12V
C238
BRAKE PEDAL POSITION (BPP) SWITCH
151-14 F4
C238
S224
* When brake pedal is depressed switch closes to illuminate stoplamps.
TO C229 DIA. 90-2
C
511
LG
S134
C234M C234F
151-10 B10
511
LG
511
LG
511
LG
511
LG
511
LG
511
LG
511
LG
C244M C244F
ELECTRONIC BRAKE
D
TO C301 DIA. 90-2
*12V
4
C146
SPEED CONTROL SERVO
*12V
92
C154
POWERTRAIN CONTROL MODULE (PCM)
*12V
15
C144
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
Utilizing a vehicle speed signal from PSOM, increases/decreases vehicle speed to remain constant.
Uses information from various sensors/actuators to determine engine operating conditions.
Monitors the Brake Pedal Position (BPP) Switch and system speed sensor to determine when the ABS system should be engaged.

Diagram 90-3

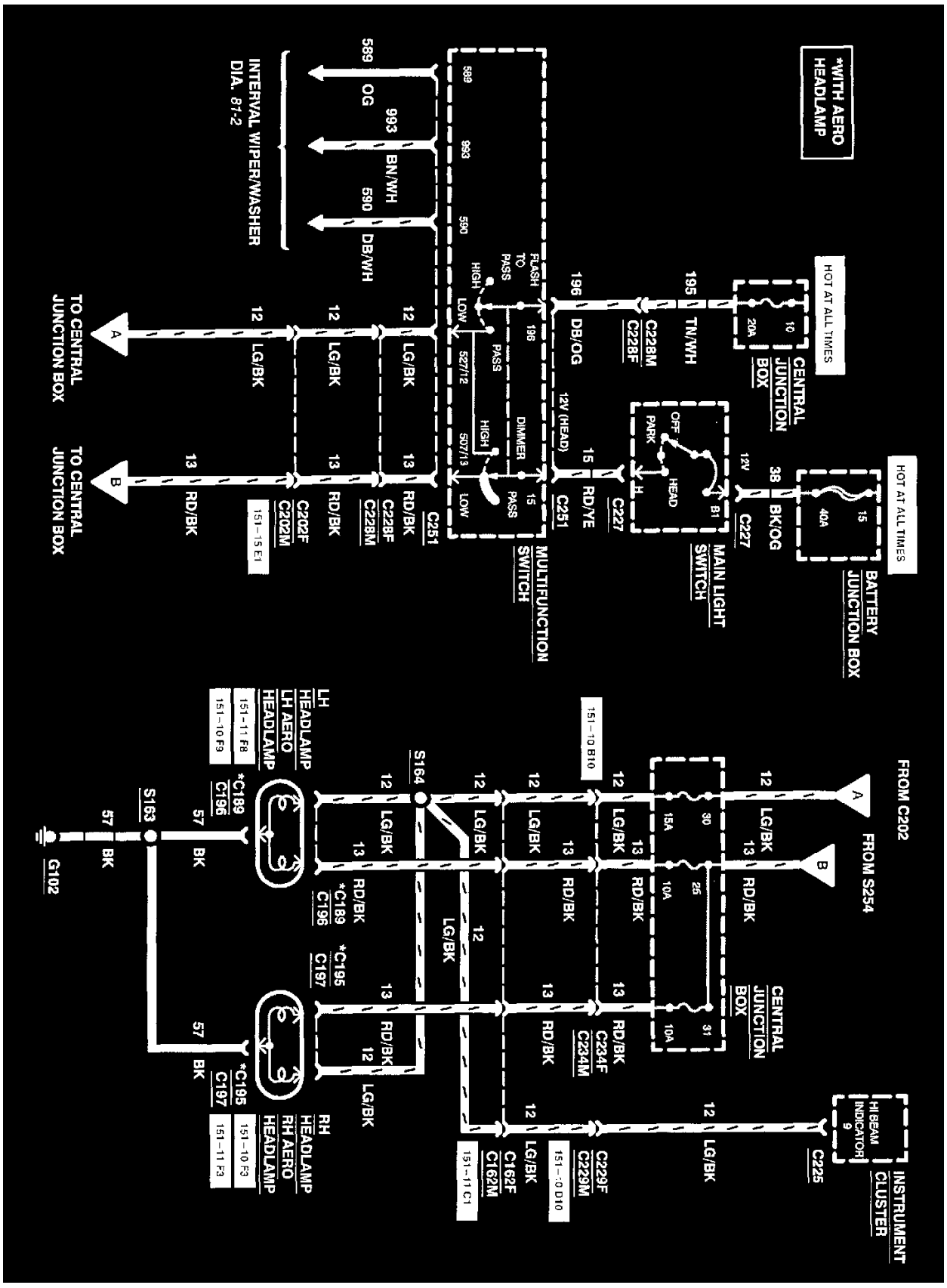

*WITH AERO HEADLAMP
HOT AT ALL TIMES
BATTERY JUNCTION BOX
CENTRAL JUNCTION BOX
MAIN LIGHT SWITCH
MULTIFUNCTION SWITCH
INTERVAL WIPER/WASHER DIA. 81-2
TO CENTRAL JUNCTION BOX
FROM C202
FROM S254
INSTRUMENT CLUSTER
HI BEAM INDICATOR
LH HEADLAMP
LH AERO HEADLAMP
RH HEADLAMP
RH AERO HEADLAMP
G102

Diagram 85-1

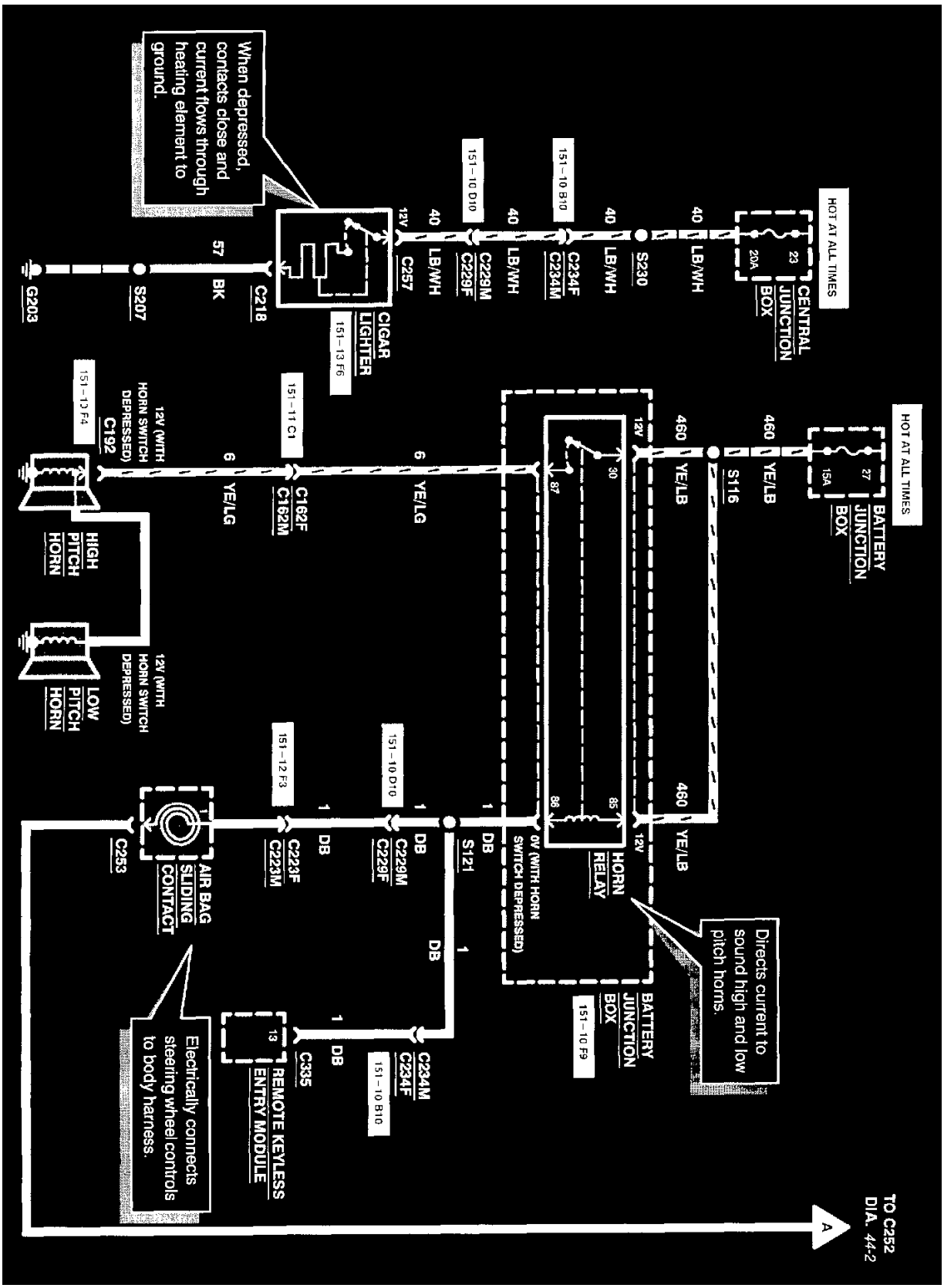

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
23
20A
40
LB/WH
S230
C234F
C234M
LB/WH
151-10 B10
C229M
C229F
LB/WH
151-10 D10
12V
C257
CIGAR LIGHTER
151-13 F6
When depressed, contacts close and current flows through heating element to ground.
57
BK
S207
G203
C218
HOT AT ALL TIMES
BATTERY JUNCTION BOX
27
15A
460
YE/LB
S116
460
YE/LB
12V
30
87
85
86
HORN RELAY
0V (WITH HORN SWITCH DEPRESSED)
Directs current to sound high and low pitch horns.
BATTERY JUNCTION BOX
151-10 F9
12V (WITH HORN SWITCH DEPRESSED)
C192
151-13 F4
151-11 C1
6
YE/LG
C162F
C162M
HIGH PITCH HORN
LOW PITCH HORN
12V (WITH HORN SWITCH DEPRESSED)
1
DB
S121
C229M
C229F
151-10 D10
C223F
C223M
151-12 F3
AIR BAG SLIDING CONTACT
C253
C234M
C234F
151-10 B10
C335
13
REMOTE KEYLESS ENTRY MODULE
Electrically connects steering wheel controls to body harness.
A
TO C252
DIA. 44-2

Diagram 44-1

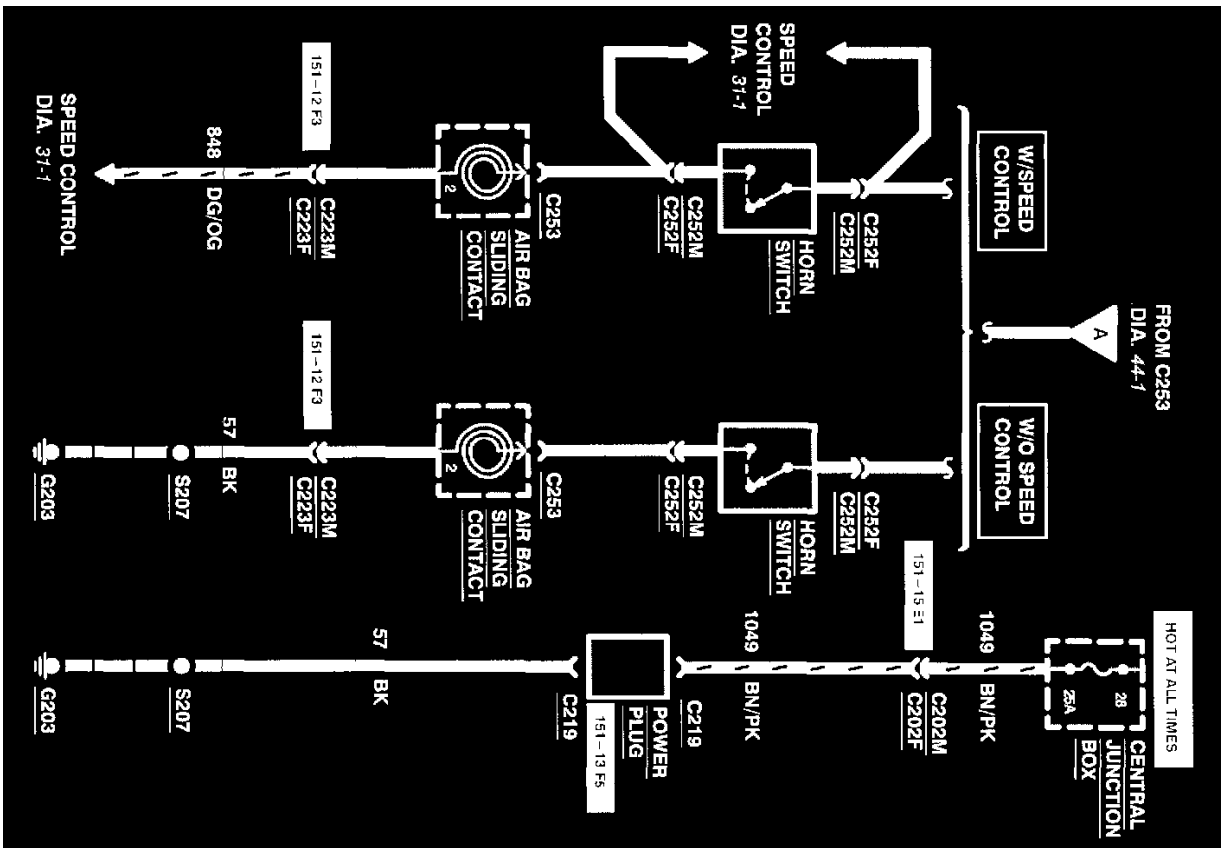

FROM C253
DIA. 44-1
A
W/SPEED CONTROL
W/O SPEED CONTROL
HOT AT ALL TIMES
28
25A
CENTRAL JUNCTION BOX
1049
BN/PK
C202M
C202F
151-15 E1
C252F
C252M
HORN SWITCH
C252M
C252F
C253
AIR BAG SLIDING CONTACT
2
C223M
C223F
151-12 F3
848
DG/OG
SPEED CONTROL
DIA. 31-1
C219
POWER PLUG
151-13 F5
57
BK
S207
G203

Diagram 44-2

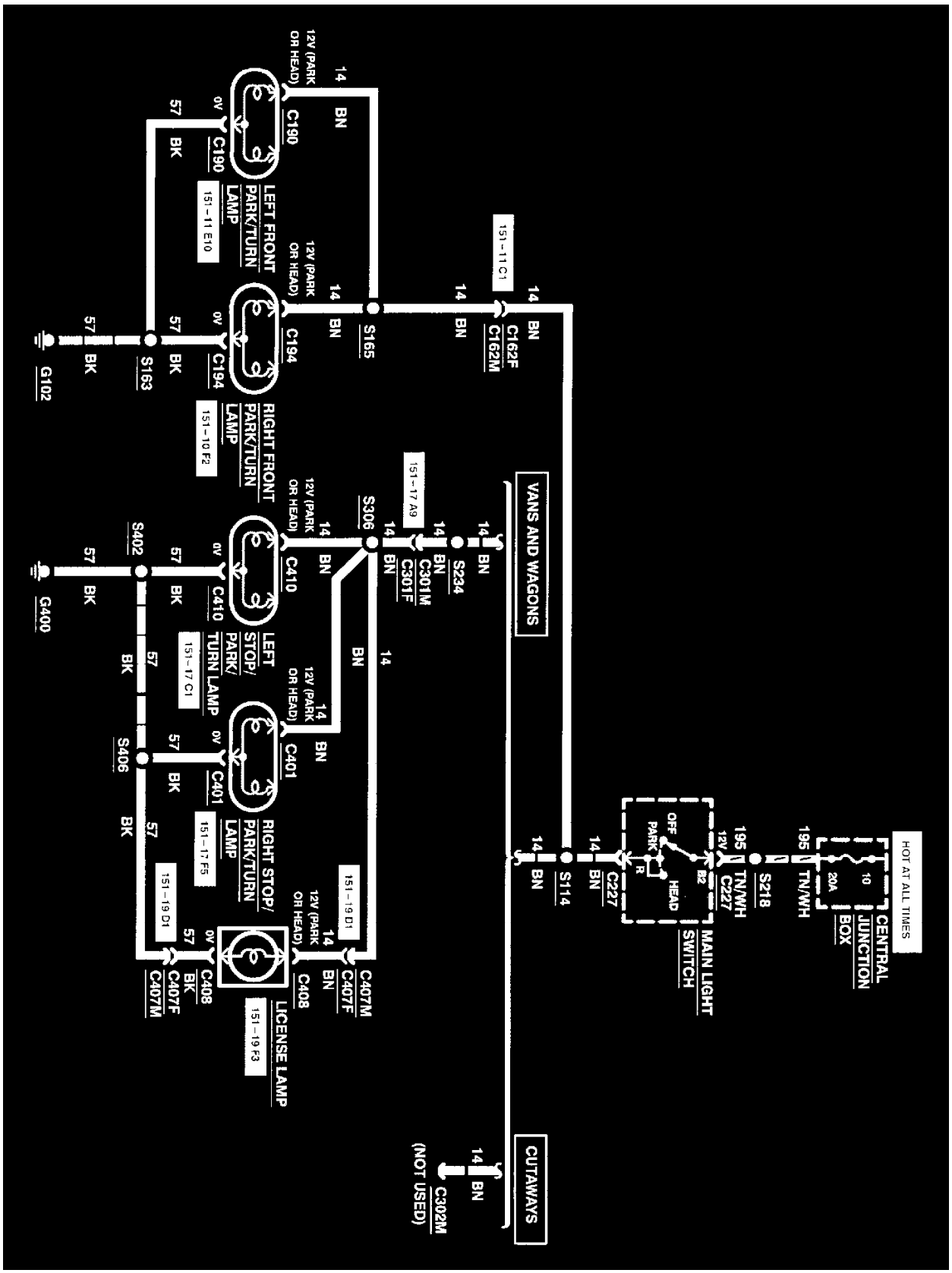

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
10
20A
195 TN/WH
S218
195 TN/WH
12V
C227
R2
MAIN LIGHT SWITCH
OFF
PARK
HEAD
R
C227
BN
14
S114
14 BN
VANS AND WAGONS
CUTAWAYS
14 BN
C302M
(NOT USED)
151-11 C1
14 BN
C162F
C162M
14 BN
S165
14 BN
12V (PARK OR HEAD)
14
C190
0V
C190
57 BK
LEFT FRONT PARK/TURN LAMP
151-11 E10
12V (PARK OR HEAD)
14
C194
0V
C194
57 BK
S163
57 BK
G102
RIGHT FRONT PARK/TURN LAMP
151-10 F2
151-17 A9
14 BN
S306
14 BN
S234
14 BN
C301M
C301F
12V (PARK OR HEAD)
14
C410
0V
C410
57 BK
S402
57 BK
G400
LEFT STOP/ PARK/ TURN LAMP
151-17 C1
BN
14
12V (PARK OR HEAD)
C401
0V
C401
57 BK
S406
57 BK
RIGHT STOP/ PARK/TURN LAMP
151-17 F5
151-19 D1
151-19 D1
12V (PARK OR HEAD)
14
C407M
C407F
BN
C408
0V
C408
BK
C407F
C407M
57
LICENSE LAMP
151-19 F3

Diagram 92-1

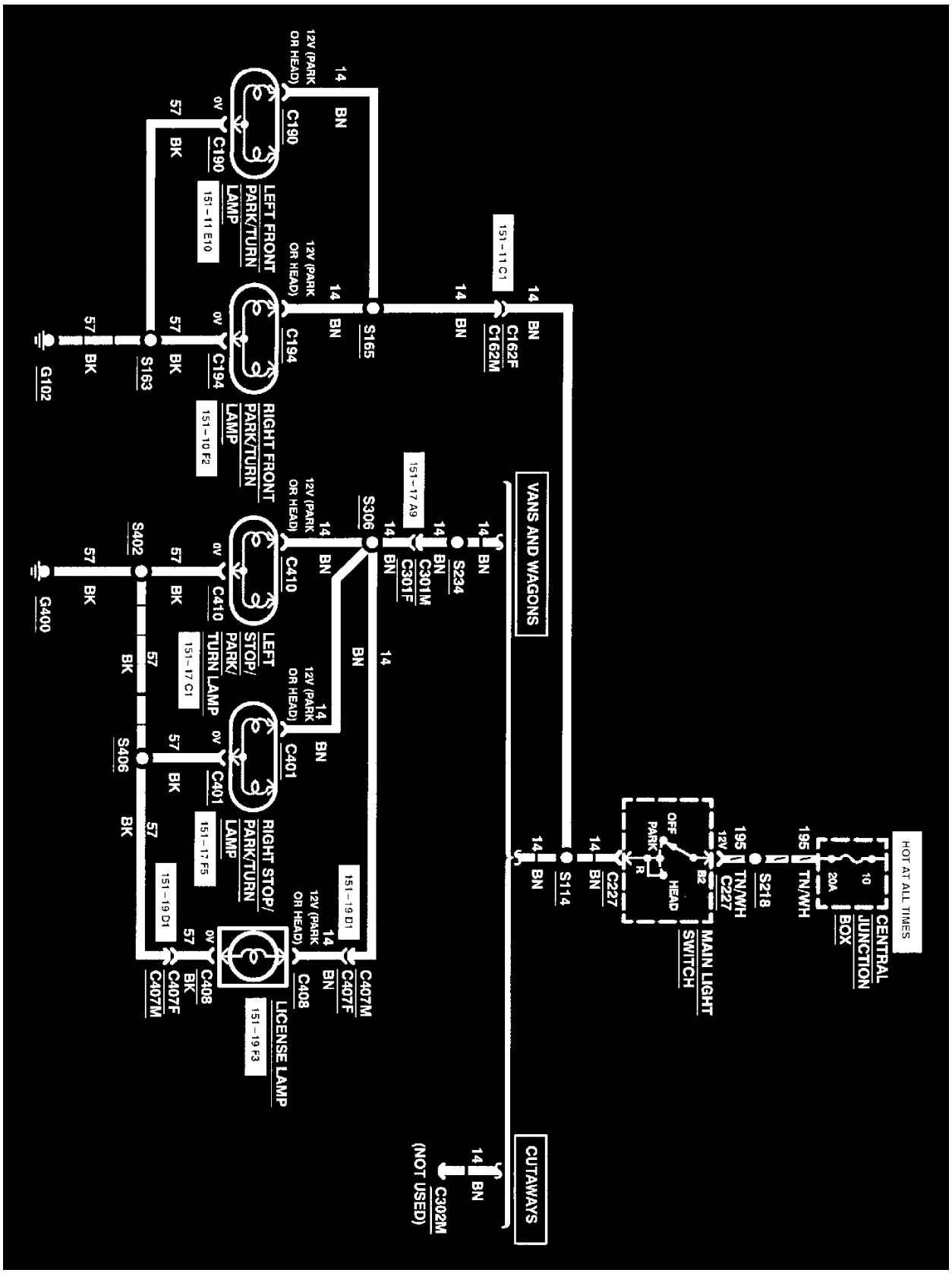

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
10
20A
195 TN/WH
S218
195 TN/WH
12V
C227
R2
MAIN LIGHT SWITCH
OFF
PARK
R
HEAD
C227
BN
S114
14 BN
VANS AND WAGONS
CUTAWAYS
C302M
(NOT USED)
151-11 C1
C162F
C162M
S165
S163
G102
C190
LEFT FRONT PARK/TURN LAMP
151-11 E10
C194
RIGHT FRONT PARK/TURN LAMP
151-10 F2
S306
S234
C301M
C301F
151-17 A9
S402
G400
C410
LEFT STOP/ PARK/ TURN LAMP
151-17 C1
C401
RIGHT STOP/ PARK/TURN LAMP
151-17 F5
S406
151-19 D1
C407M
C407F
C408
LICENSE LAMP
151-19 F3
12V (PARK OR HEAD)
14 BN
57 BK
0V

Diagram 92-1

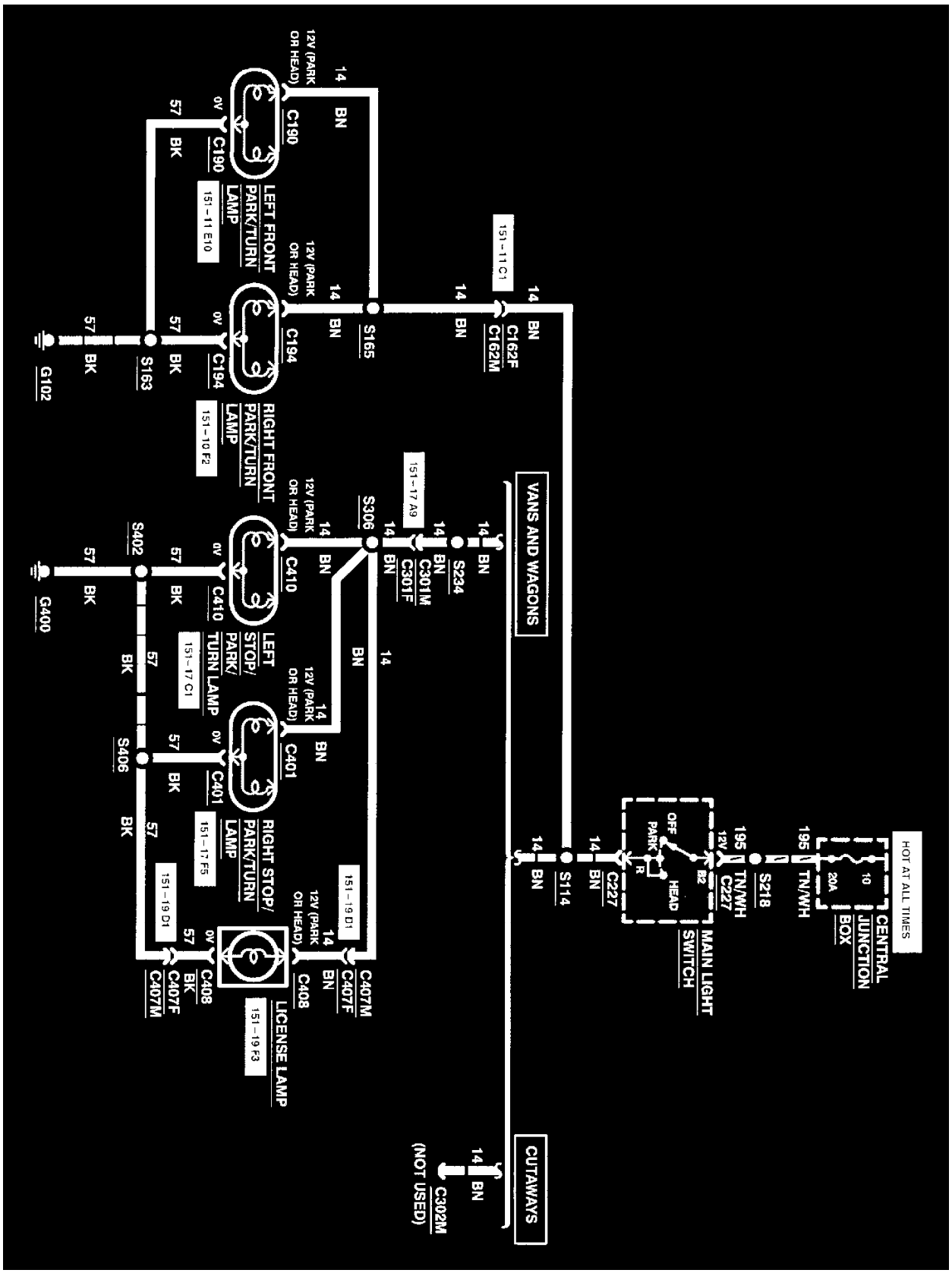

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
10
20A
195 TN/WH
S218
195 TN/WH
12V
C227
R2
MAIN LIGHT SWITCH
OFF
PARK
HEAD
R
14 BN
C227
S114
VANS AND WAGONS
CUTAWAYS
14 BN
C302M
(NOT USED)
151-11 C1
14 BN
C162F
C162M
S165
14 BN
12V (PARK OR HEAD)
C190
0V
57 BK
C190
LEFT FRONT PARK/TURN LAMP
151-11 E10
C194
RIGHT FRONT PARK/TURN LAMP
151-10 F2
S163
57 BK
G102
151-17 A9
S234
C301M
C301F
S306
S402
G400
C410
LEFT STOP/ PARK/ TURN LAMP
151-17 C1
C401
RIGHT STOP/ PARK/TURN LAMP
151-17 F5
S406
151-19 D1
C407M
C407F
C408
LICENSE LAMP
151-19 F3

Diagram 92-1

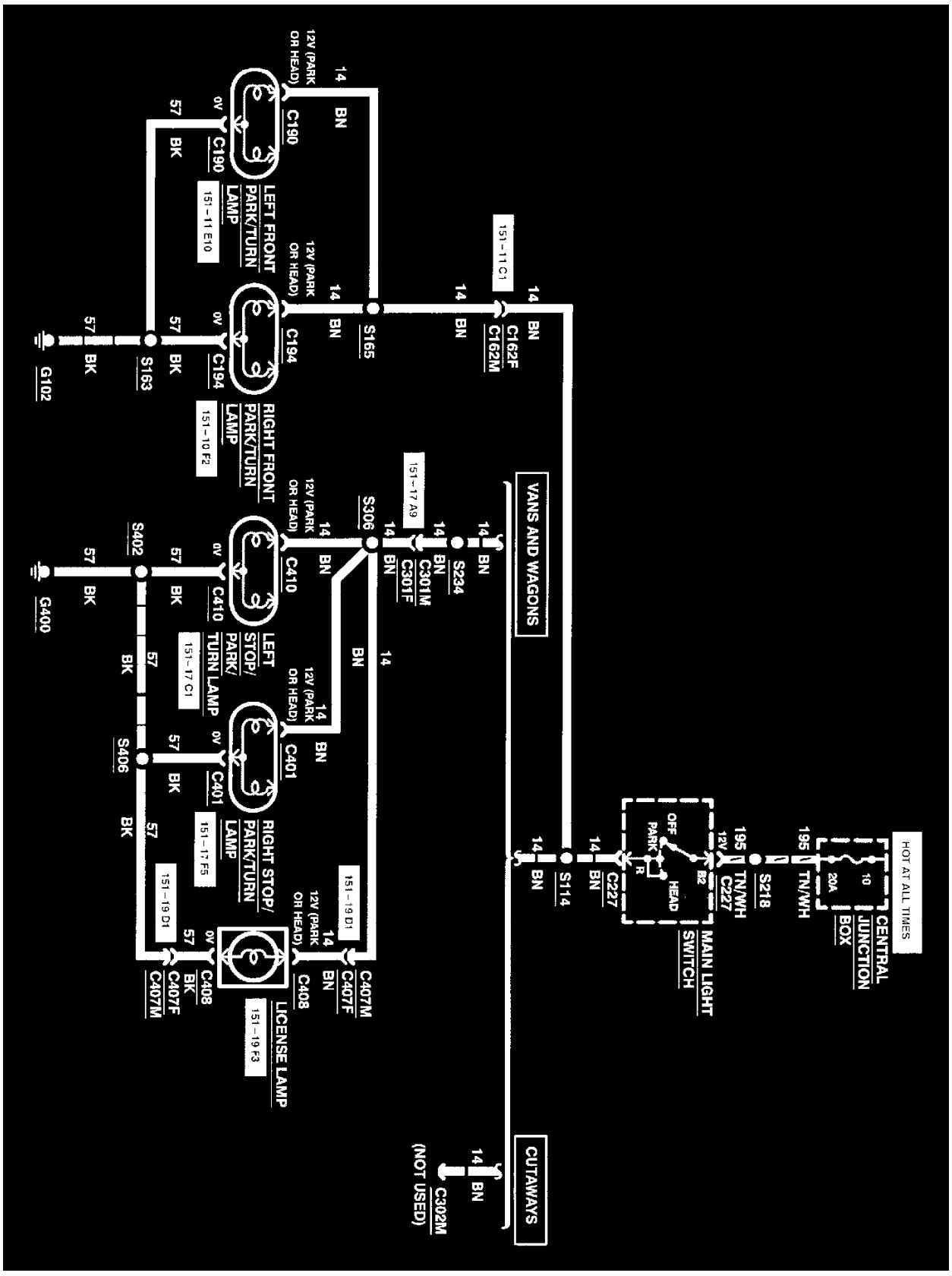


Diagram 92-1

Turn Signals

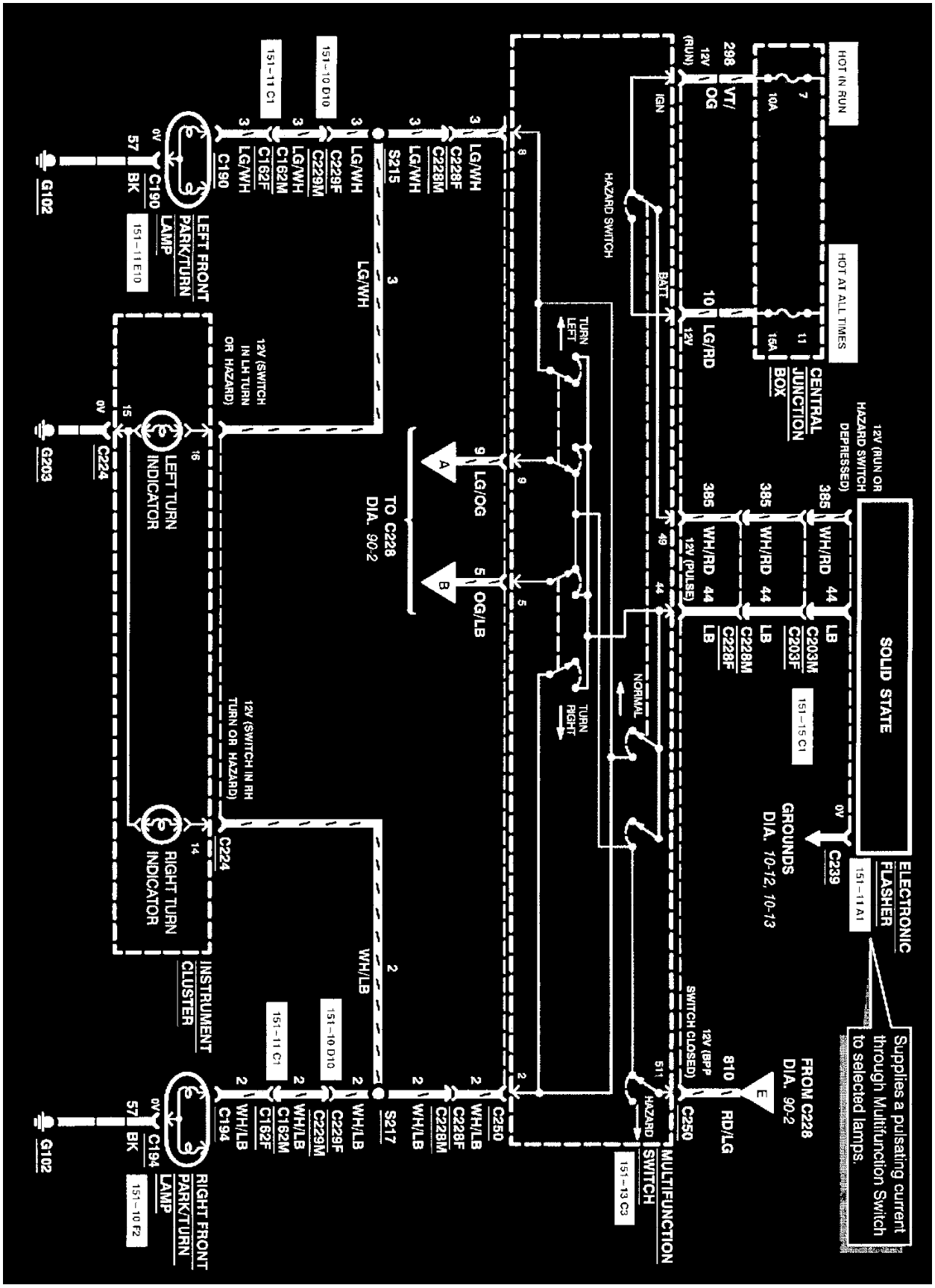

HOT IN RUN
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
ELECTRONIC FLASHER
SOLID STATE
151-11 A1
Supplies a pulsating current through Multifunction Switch to selected lamps.
12V (RUN OR HAZARD SWITCH DEPRESSED)
298 VT/OG
12V (RUN)
LG/RD
12V
385 WH/RD 44 LB C203M C203F
385 WH/RD 44 LB C228M C228F
385 WH/RD 44 12V (PULSE) LB C228F
151-15 C1
C239
GROUNDS DIA. 10-12, 10-13
FROM C228 DIA. 90-2
810 RD/LG
12V (BPP SWITCH CLOSED)
C250
MULTIFUNCTION SWITCH
151-13 C3
HAZARD SWITCH
IGN
BATT
TURN LEFT
TURN RIGHT
NORMAL
HAZARD
LG/WH C228F C228M LG/WH S215
LG/WH C229F C229M LG/WH C162M C162F LG/WH C190
151-10 D10
151-11 C1
LEFT FRONT PARK/TURN LAMP
C190 BK
151-11 E10
G102
LG/WH
12V (SWITCH IN LH TURN OR HAZARD)
LEFT TURN INDICATOR
C224
G203
LG/OG
OG/LB
TO C228 DIA. 90-2
12V (SWITCH IN RH TURN OR HAZARD)
RIGHT TURN INDICATOR
WH/LB
WH/LB C229F C229M WH/LB C162M C162F WH/LB C194
WH/LB C228F C228M WH/LB
WH/LB S217
INSTRUMENT CLUSTER
RIGHT FRONT PARK/TURN LAMP
C194 BK
151-10 F2

Diagram 90-1

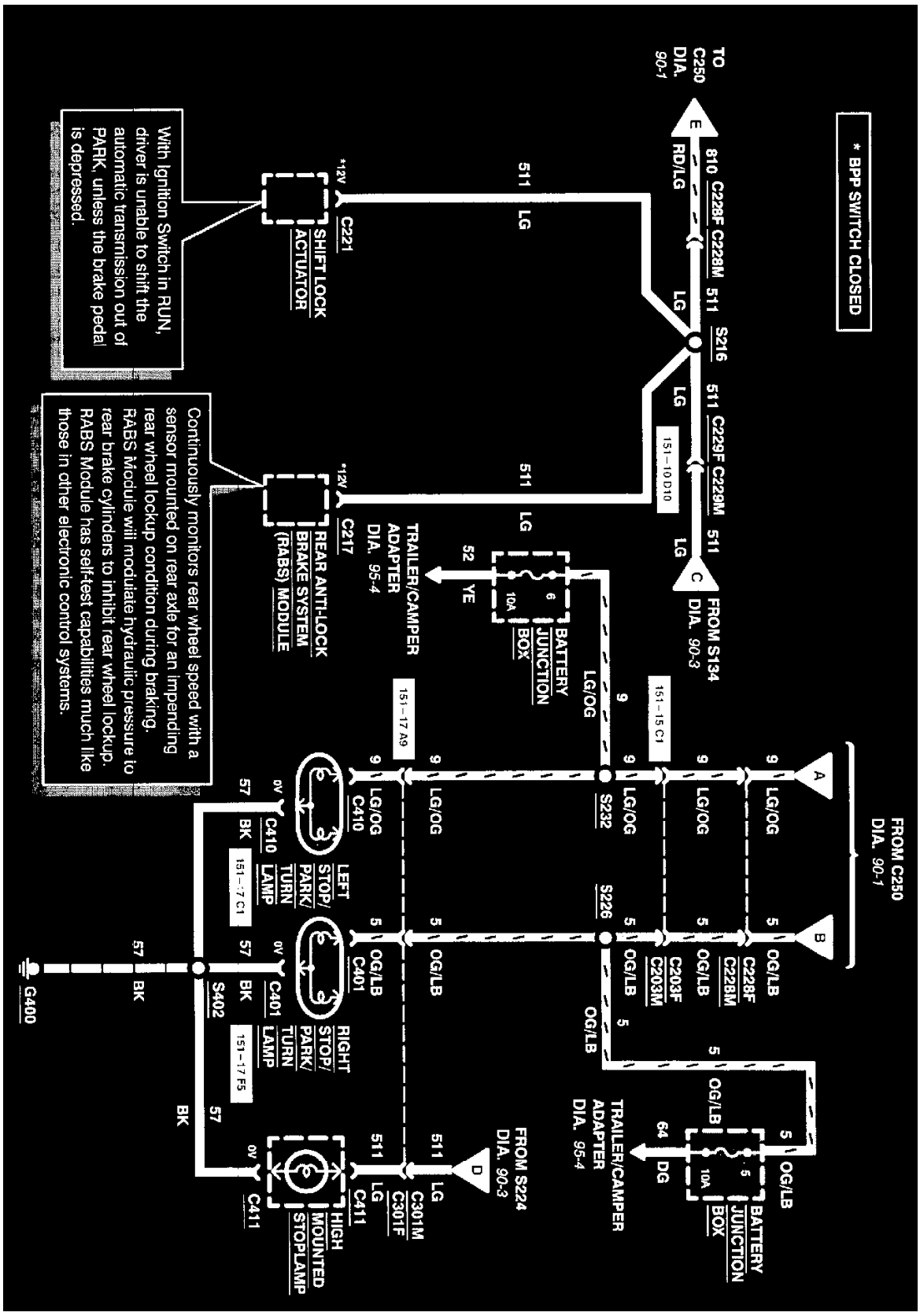

* BPP SWITCH CLOSED
TO C250 DIA. 90-1
E
RD/LG
810
C228F
C228M
511
LG
S216
511
LG
C229F
C229M
511
LG
C
FROM S134 DIA. 90-3
151-10 D10
151-15 C1
With Ignition Switch in RUN, driver is unable to shift the automatic transmission out of PARK, unless the brake pedal is depressed.
*12V
C221
SHIFT LOCK ACTUATOR
511
LG
511
LG
*12V
C217
REAR ANTI-LOCK BRAKE SYSTEM (RABS) MODULE
TRAILER/CAMPER ADAPTER DIA. 95-4
52
YE
10A
6
BATTERY JUNCTION BOX
Continuously monitors rear wheel speed with a sensor mounted on rear axle for an impending rear wheel lockup condition during braking. RABS Module will modulate hydraulic pressure to rear brake cylinders to inhibit rear wheel lockup. RABS Module has self-test capabilities much like those in other electronic control systems.
LG/OG
9
151-17 A9
S232
S226
LG/OG
9
5
OG/LB
151-7 C1
151-17 F5
C410
C401
0V
57
BK
LEFT STOP/PARK/TURN LAMP
RIGHT STOP/PARK/TURN LAMP
S402
G400
FROM C250 DIA. 90-1
A
B
C228F
C228M
C203F
C203M
OG/LB
5
64
DG
10A
BATTERY JUNCTION BOX
TRAILER/CAMPER ADAPTER DIA. 95-4
FROM S224 DIA. 90-3
D
511
LG
C301M
C301F
C411
HIGH MOUNTED STOPLAMP

Diagram 90-2

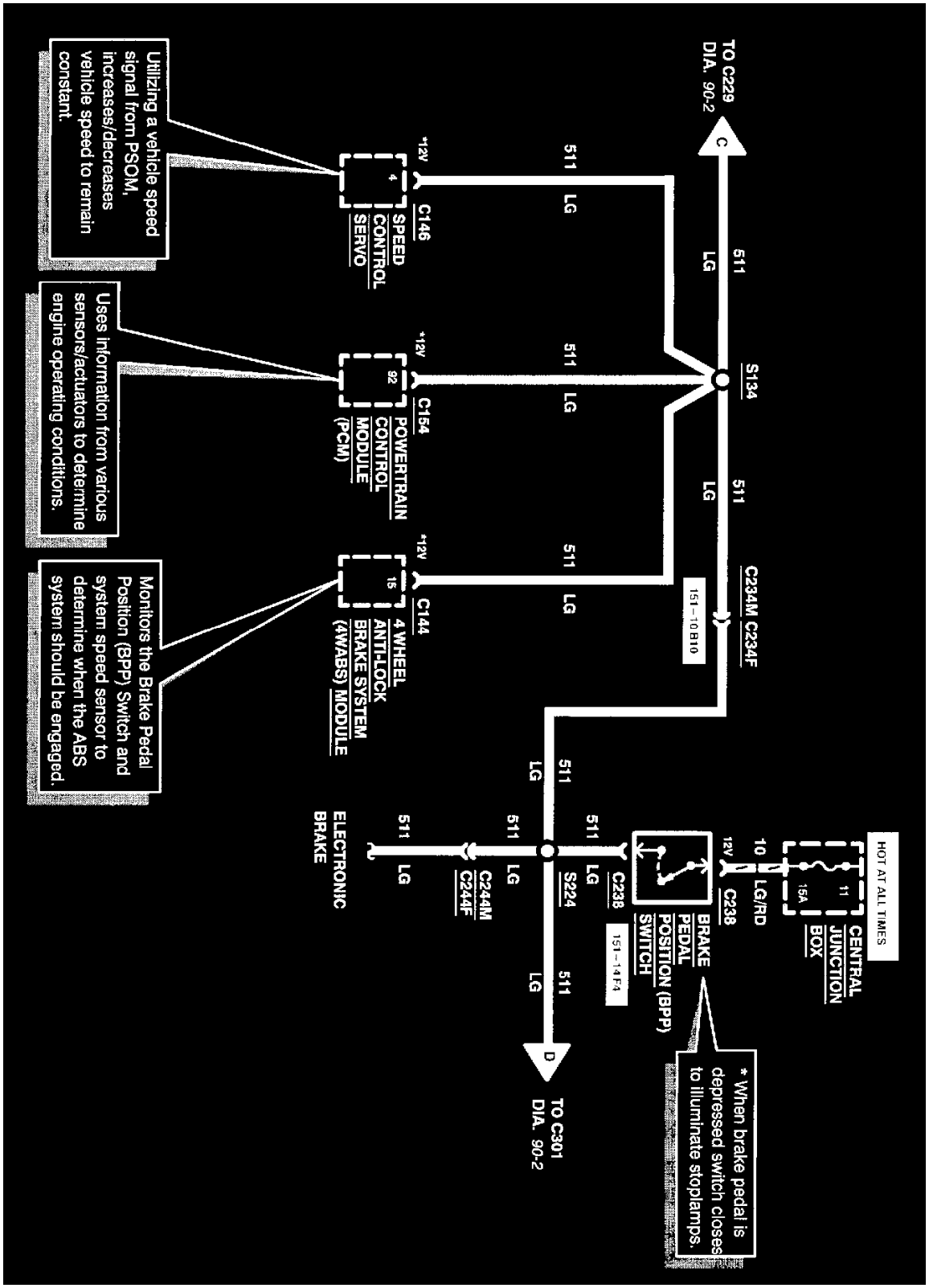

HOT AT ALL TIMES
CENTRAL JUNCTION BOX
11
15A
10
LG/RD
12V
C238
BRAKE PEDAL POSITION (BPP) SWITCH
C238
151-14 F4
S224
* When brake pedal is depressed switch closes to illuminate stoplamps.
TO C229 DIA. 90-2
C
LG
511
S134
C234M C234F
151-10 B10
TO C301 DIA. 90-2
D
ELECTRONIC BRAKE
C244M C244F
Utilizing a vehicle speed signal from PSOM, increases/decreases vehicle speed to remain constant.
*12V
4
C146
SPEED CONTROL SERVO
Uses information from various sensors/actuators to determine engine operating conditions.
92
C154
POWERTRAIN CONTROL MODULE (PCM)
Monitors the Brake Pedal Position (BPP) Switch and system speed sensor to determine when the ABS system should be engaged.
15
C144
4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE

Diagram 90-3

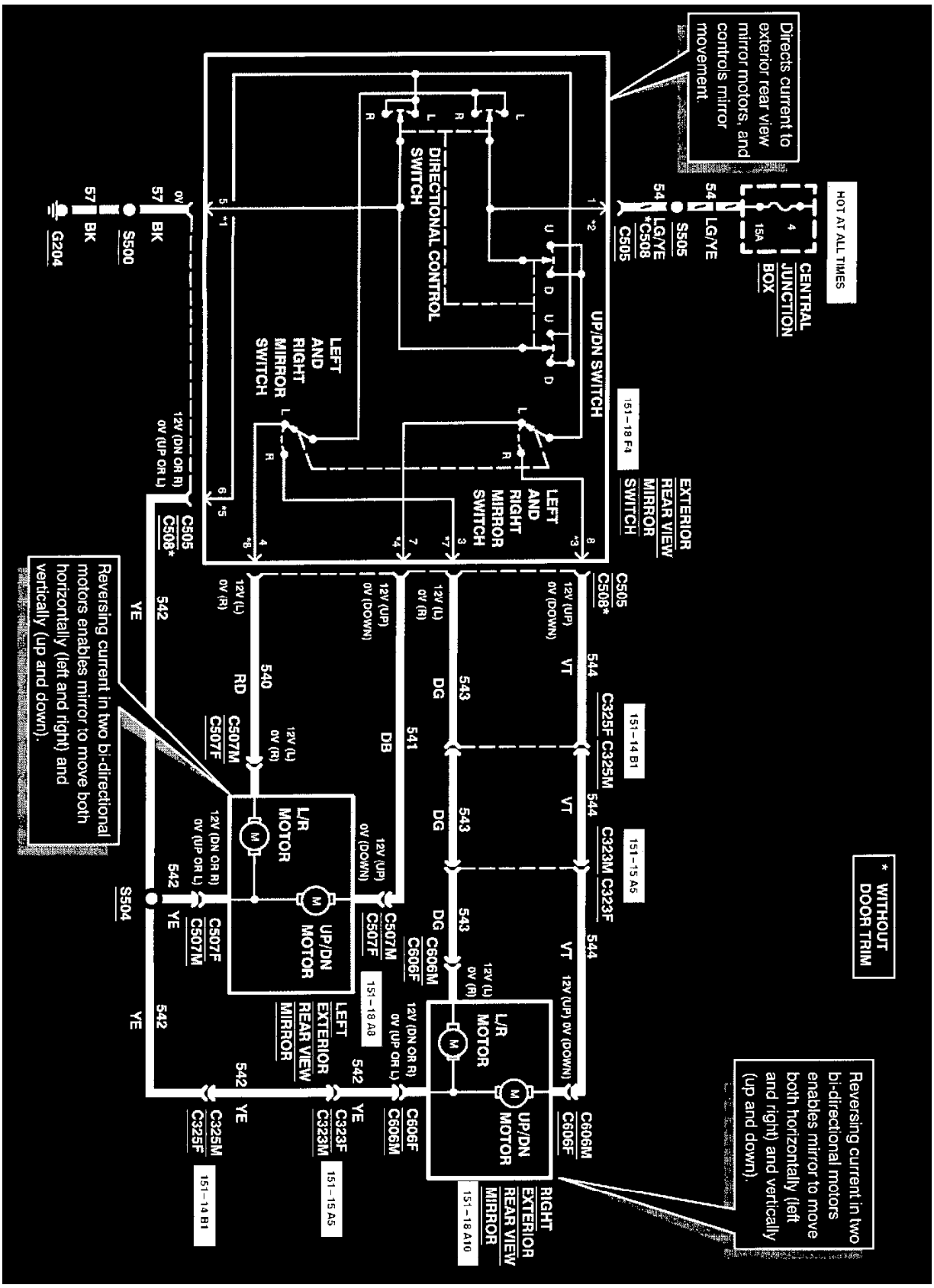


Diagram 124-1

Power Locks

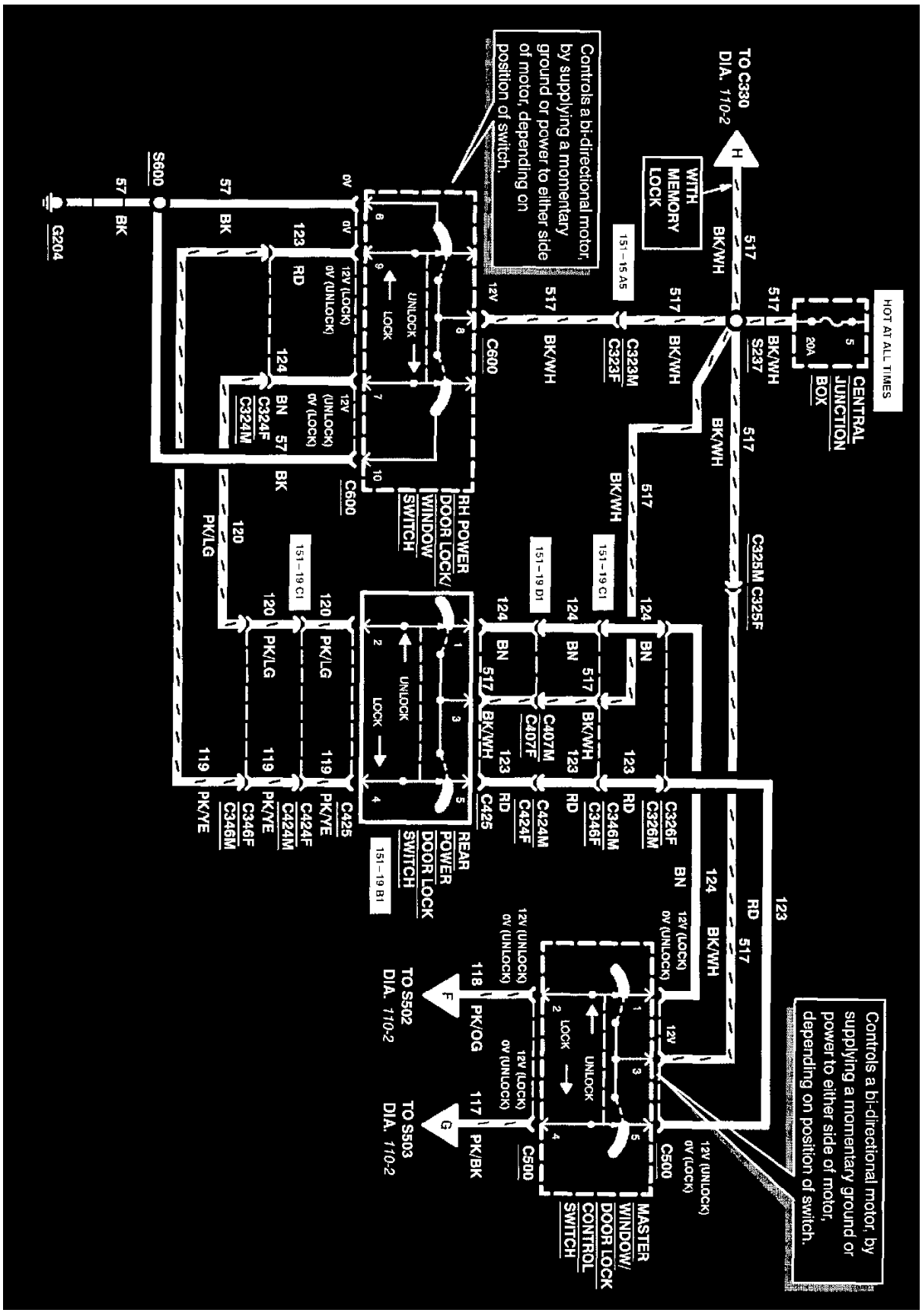


Diagram 110-1

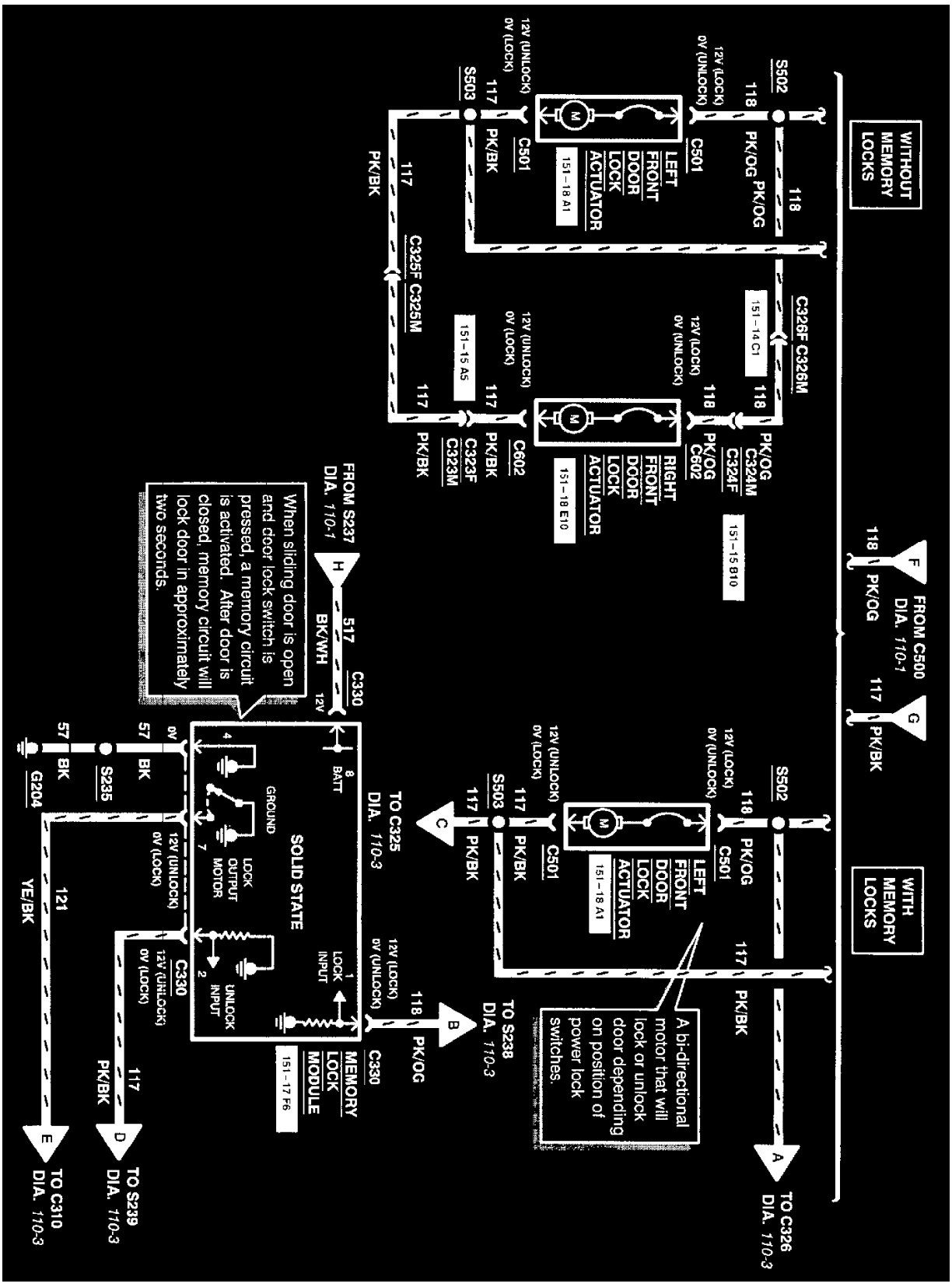


Diagram 110-2

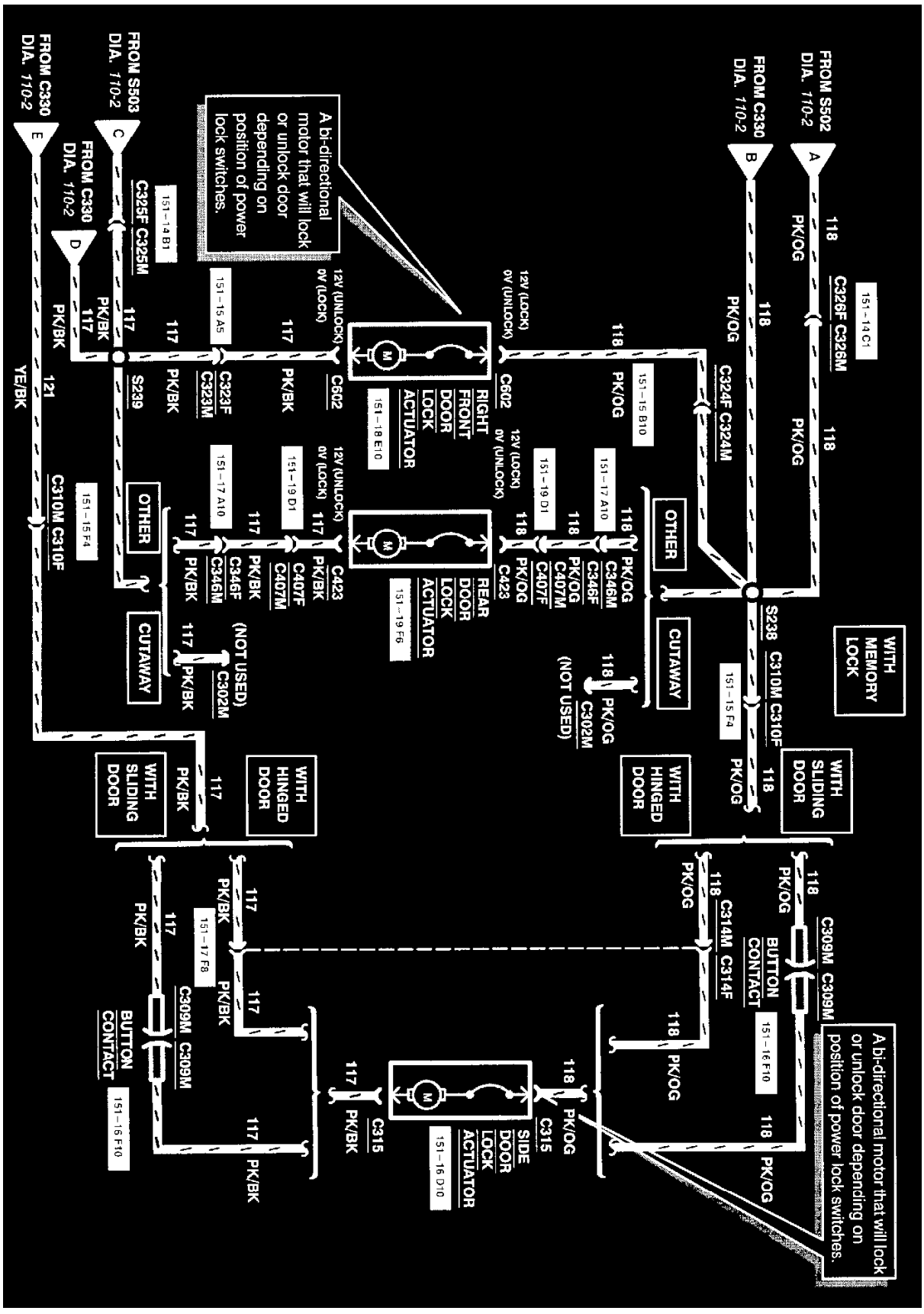


Diagram 110-3

System Diagram

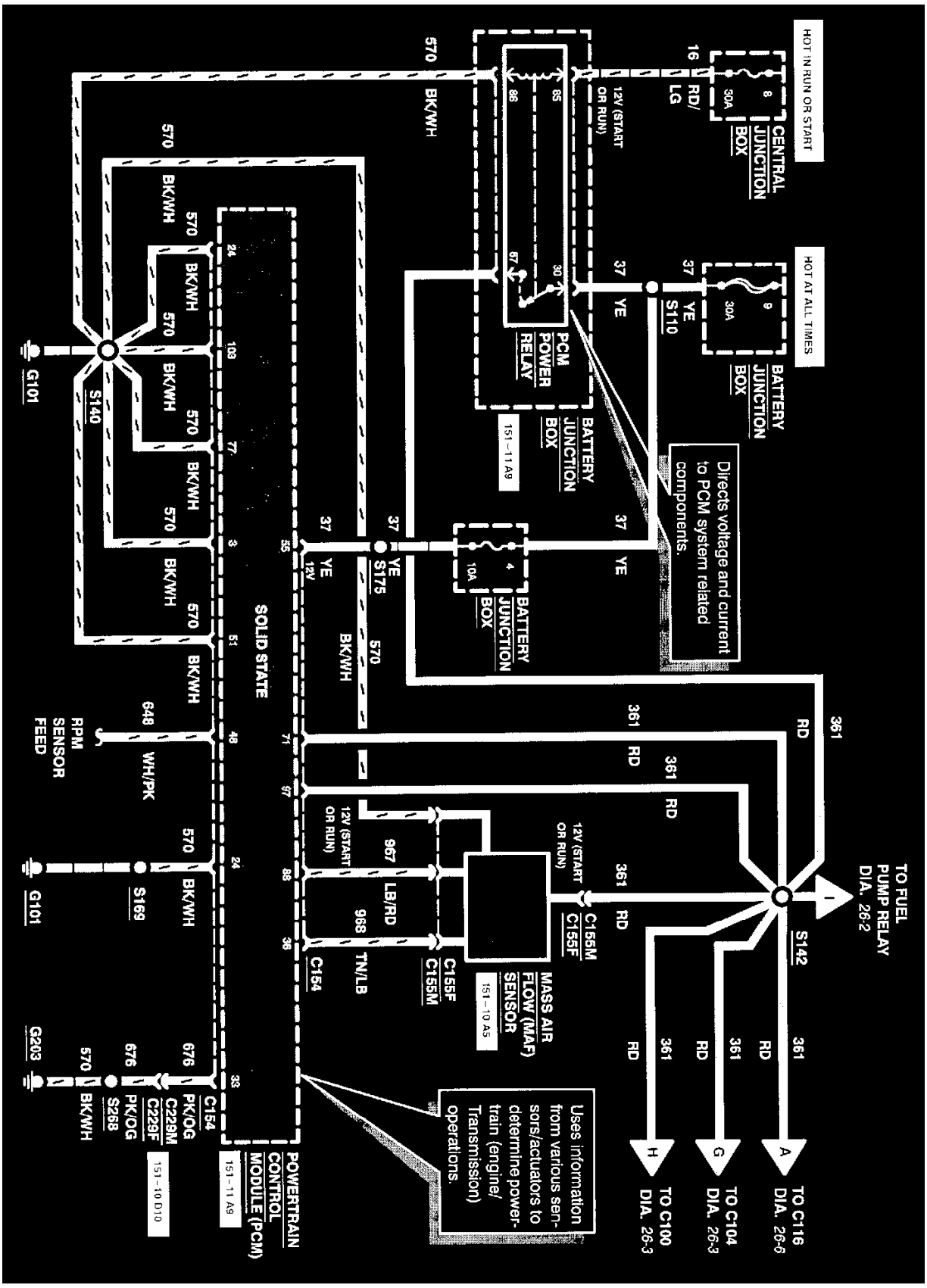

HOT IN RUN OR START
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
BATTERY JUNCTION BOX
PCM POWER RELAY
Directs voltage and current to PCM system related components.
TO FUEL PUMP RELAY DIA. 26-2
TO C116 DIA. 26-6
TO C104 DIA. 26-3
TO C100 DIA. 26-3
MASS AIR FLOW (MAF) SENSOR
Uses information from various sensors/actuators to determine power-train (engine/Transmission) operations.
POWERTRAIN CONTROL MODULE (PCM)
SOLID STATE RPM SENSOR FEED
S110
S142
S140
S175
S169
S268
G101
G203
C154
C155F
C155M
C229F
C229M
151-10 A5
151-10 D10
151-11 A9

Diagram 26-1

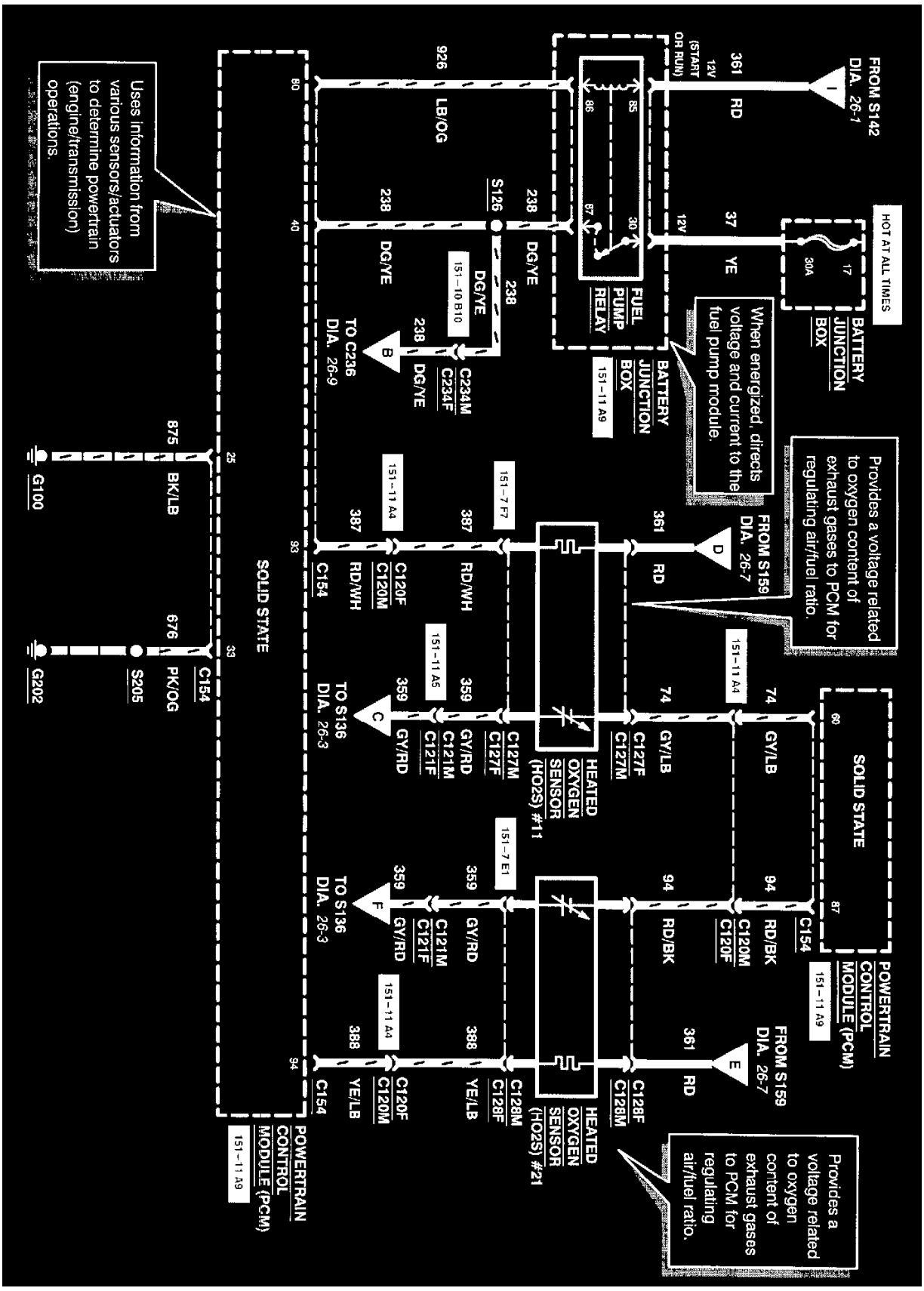

FROM S142
DIA. 26-1
HOT AT ALL TIMES
BATTERY JUNCTION BOX
17
30A
361
RD
12V (START OR RUN)
37
YE
12V
FUEL PUMP RELAY
85
86
87
30
When energized, directs voltage and current to the fuel pump module.
BATTERY JUNCTION BOX
151-11 A9
Provides a voltage related to oxygen content of exhaust gases to PCM for regulating air/fuel ratio.
FROM S159
DIA. 26-7
D
361
RD
SOLID STATE
60
87
C154
POWERTRAIN CONTROL MODULE (PCM)
151-11 A9
74
GY/LB
151-11 A4
94
RD/BK
C120M
C120F
FROM S159
DIA. 26-7
E
361
RD
C126F
C126M
Provides a voltage related to oxygen content of exhaust gases to PCM for regulating air/fuel ratio.
926
LB/OG
238
S126
DG/YE
151-10 B10
C234M
C234F
B
TO C236
DIA. 26-9
80
40
93
94
25
33
875
BK/LB
G100
676
PK/OG
S205
G202
SOLID STATE
Uses information from various sensors/actuators to determine powertrain (engine/transmission) operations.
151-7 F7
387
RD/WH
C120F
C120M
C154
151-11 A4
387
RD/WH
C154
HEATED OXYGEN SENSOR (HO2S) #11
C127M
C127F
C127F
C127M
GY/RD
C121M
C121F
359
C
TO S136
DIA. 26-3
151-11 A5
359
GY/RD
C121F
C121M
151-7 E1
359
GY/RD
C121M
C121F
F
TO S136
DIA. 26-3
151-11 A4
388
YE/LB
C120F
C120M
C154
HEATED OXYGEN SENSOR (HO2S) #21
C128M
C128F
C128F
C128M
POWERTRAIN CONTROL MODULE (PCM)
151-11 A9

Diagram 26-2

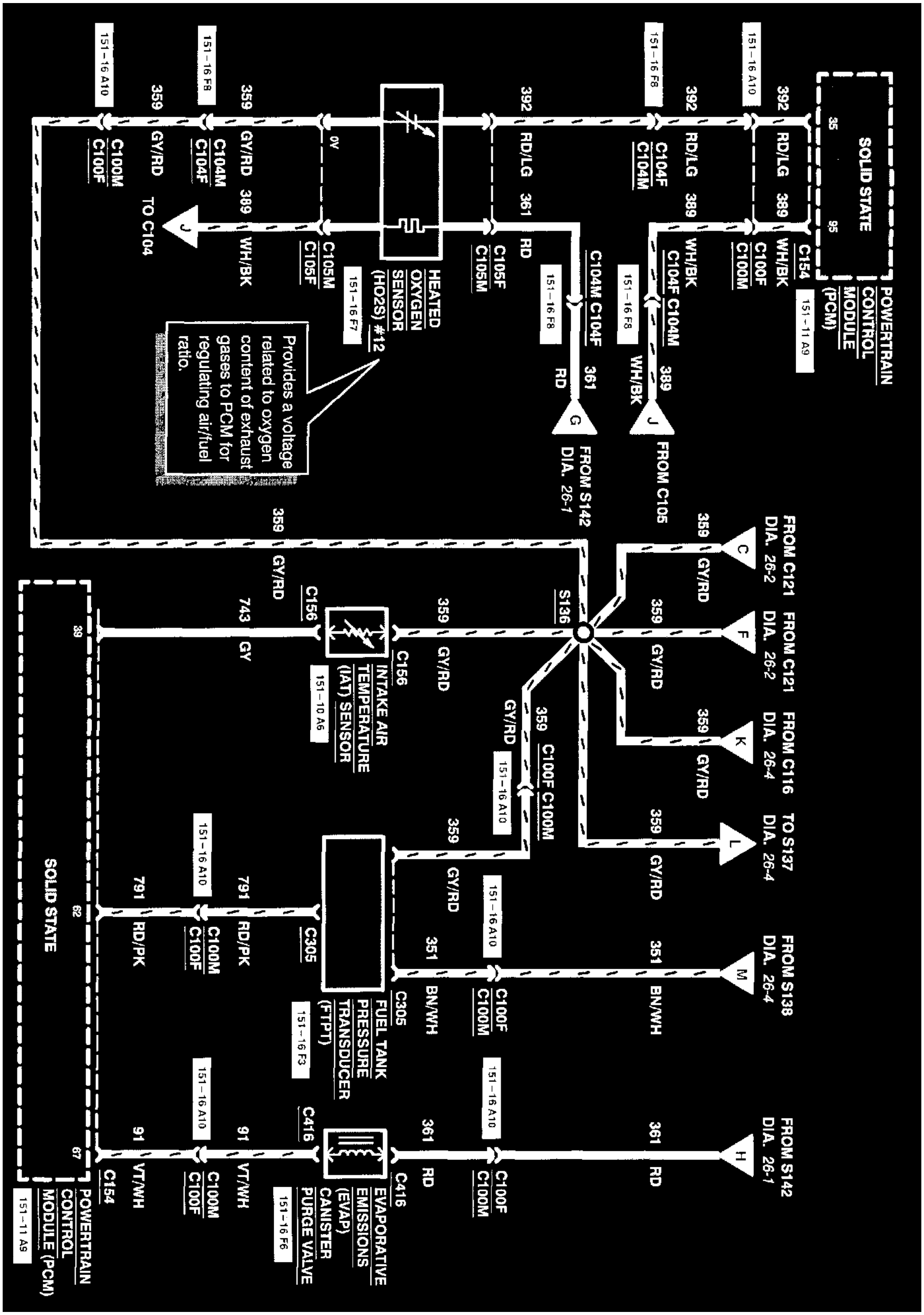

SOLID STATE
POWERTRAIN CONTROL MODULE (PCM)
151-11 A9
C154
392
RD/LG
389
WH/BK
C100F
C100M
C104F
C104M
151-16 A10
151-16 F8
361
RD
C105F
C105M
HEATED OXYGEN SENSOR (HO2S) #12
151-16 F7
Provides a voltage related to oxygen content of exhaust gases to PCM for regulating air/fuel ratio.
359
GY/RD
TO C104
FROM C105
FROM S142 DIA. 26-1
FROM C121 DIA. 26-2
FROM C116 DIA. 26-4
TO S137 DIA. 26-4
FROM S138 DIA. 26-4
S136
743
GY
C156
INTAKE AIR TEMPERATURE (IAT) SENSOR
151-10 A6
351
BN/WH
791
RD/PK
C305
FUEL TANK PRESSURE TRANSDUCER (FTPT)
151-16 F3
91
VT/WH
C416
EVAPORATIVE EMISSIONS (EVAP) CANISTER PURGE VALVE
151-16 F6

Diagram 26-3

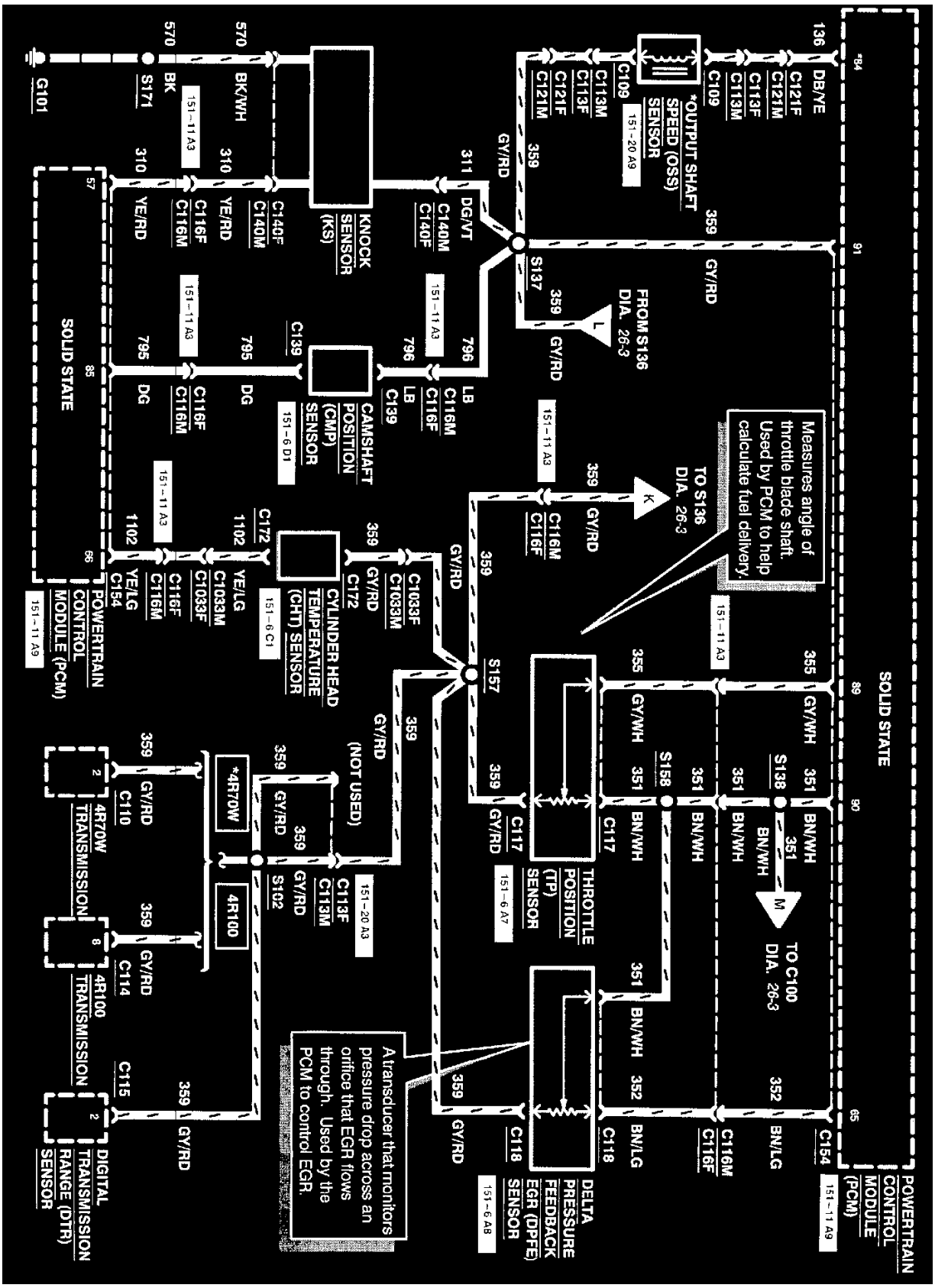

SOLID STATE
POWERTRAIN CONTROL MODULE (PCM)
136
DB/YE
C121F
C121M
C113F
C113M
C109
*OUTPUT SHAFT SPEED (OSS) SENSOR
151-20 A9
359
GY/RD
S137
FROM S136 DIA. 26-3
359
GY/RD
151-11 A3
C116M
C116F
359
GY/RD
S157
359
GY/RD
C1033F
C1033M
C172
CYLINDER HEAD TEMPERATURE (CHT) SENSOR
151-6 C1
1102
YE/LG
C1033M
C1033F
C116F
C116M
YE/LG
C154
POWERTRAIN CONTROL MODULE (PCM)
151-11 A9
66
57
85
SOLID STATE
570
BK/WH
151-11 A3
310
YE/RD
C140F
C140M
C116F
C116M
795
DG
C116F
C116M
570
BK
S171
G101
311
DG/VT
C140M
C140F
796
LB
C116M
C116F
796
LB
C139
CAMSHAFT POSITION (CMP) SENSOR
151-6 D1
C139
KNOCK SENSOR (KS)
Measures angle of throttle blade shaft. Used by PCM to help calculate fuel delivery.
TO S136 DIA. 26-3
151-11 A3
355
GY/WH
S158
351
BN/WH
C117
THROTTLE POSITION (TP) SENSOR
151-6 A7
355
GY/WH
351
S138
BN/WH
TO C100 DIA. 26-3
89
90
65
C154
151-11 A9
352
BN/LG
C116M
C116F
351
BN/WH
352
BN/LG
C118
DELTA PRESSURE FEEDBACK EGR (DPFE) SENSOR
151-6 A8
359
GY/RD
C118
C115
2
DIGITAL TRANSMISSION RANGE (DTR) SENSOR
A transducer that monitors pressure drop across an orifice that EGR flows through. Used by the PCM to control EGR.
359
GY/RD
(NOT USED)
151-20 A3
C113F
C113M
S102
*4R70W
4R100
359
GY/RD
C110
2
4R70W TRANSMISSION
359
GY/RD
C114
8
4R100 TRANSMISSION

Diagram 26-4

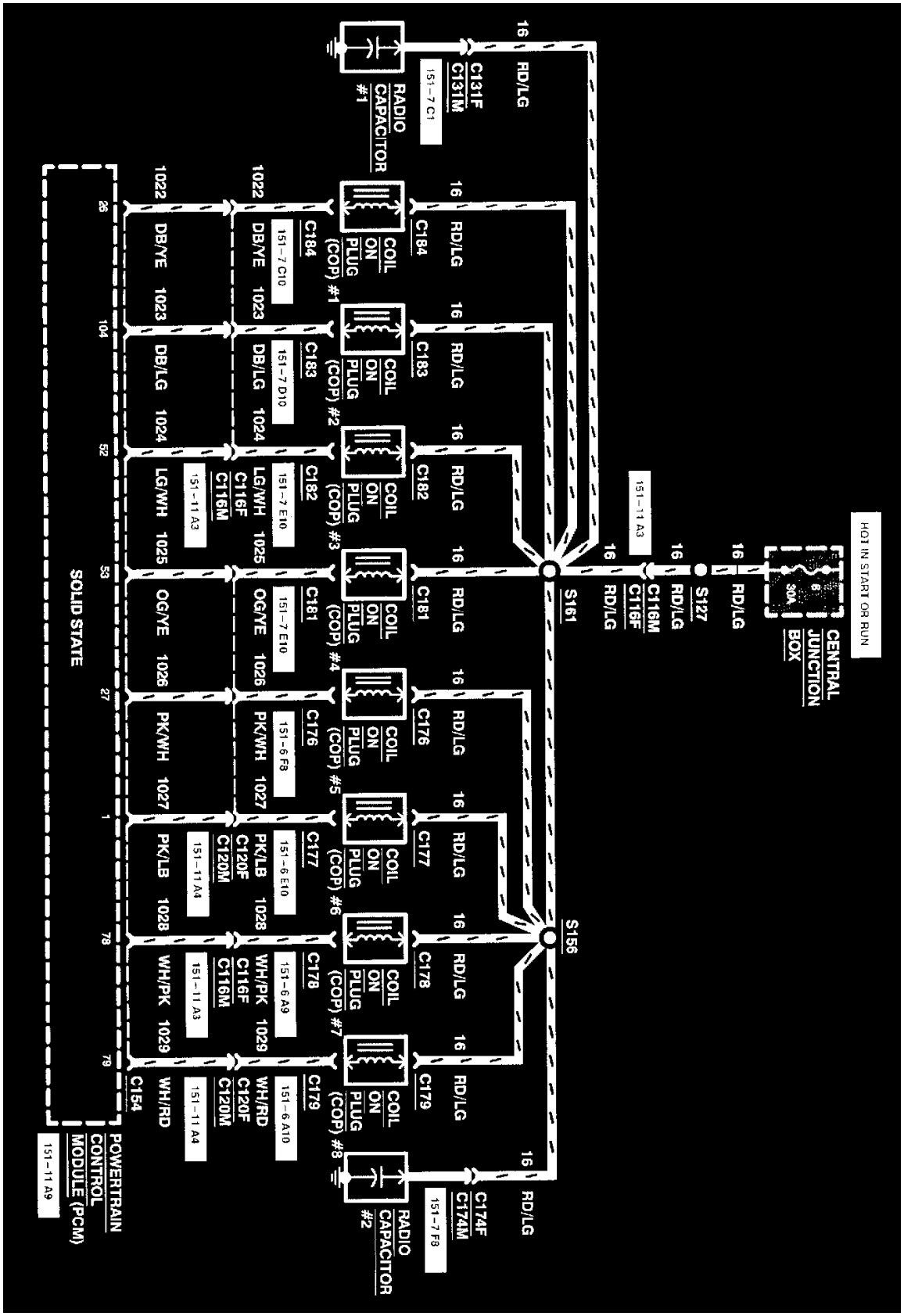

HOT IN START OR RUN
CENTRAL JUNCTION BOX
30A
S127
S161
S156
C116M
C116F
151-11 A3
RADIO CAPACITOR #1
RADIO CAPACITOR #2
C131F
C131M
151-7 C1
C174F
C174M
151-7 F8
COIL ON PLUG (COP) #1
COIL ON PLUG (COP) #2
COIL ON PLUG (COP) #3
COIL ON PLUG (COP) #4
COIL ON PLUG (COP) #5
COIL ON PLUG (COP) #6
COIL ON PLUG (COP) #7
COIL ON PLUG (COP) #8
C184
C183
C182
C181
C176
C177
C178
C179
C154
C116F
C116M
C120F
C120M
151-7 C10
151-7 D10
151-7 E10
151-6 F8
151-6 E10
151-6 A9
151-6 A10
151-11 A3
151-11 A4
SOLID STATE
POWERTRAIN CONTROL MODULE (PCM)
151-11 A9
RD/LG
DB/YE
DB/LG
LG/WH
OG/YE
PK/WH
PK/LB
WH/PK
WH/RD
16
1022
1023
1024
1025
1026
1027
1028
1029
26
104
52
53
27
1
78
79

Diagram 26-5

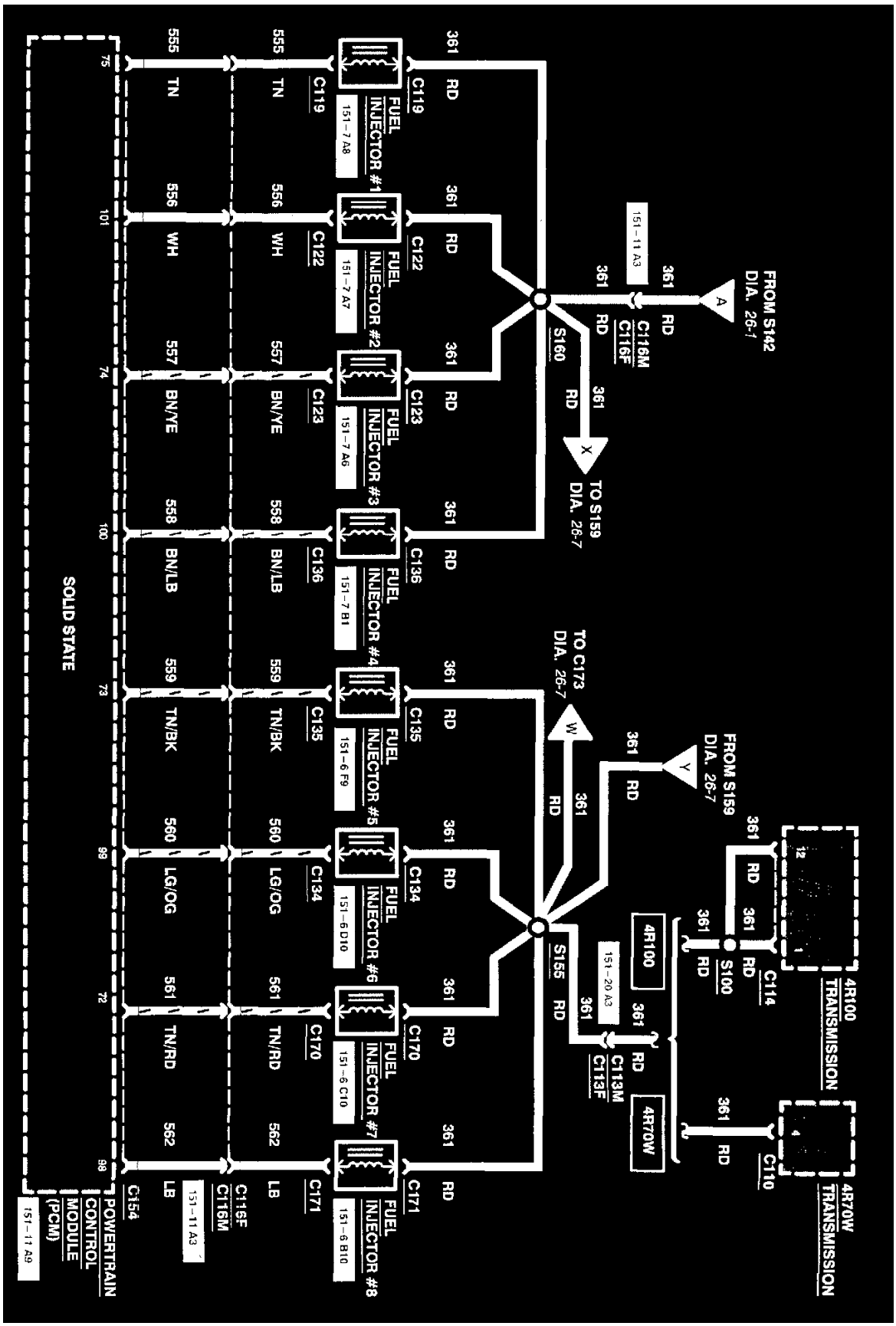

FROM S142
DIA. 26-1
A
361
RD
C116M
C116F
151-11 A3
S160
X
TO S159
DIA. 26-7
FROM S159
DIA. 26-7
Y
TO C173
DIA. 26-7
W
4R100
TRANSMISSION
4R70W
TRANSMISSION
C114
C110
S100
4R100
151-20 A3
S155
C113M
C113F
4R70W
FUEL INJECTOR #1
FUEL INJECTOR #2
FUEL INJECTOR #3
FUEL INJECTOR #4
FUEL INJECTOR #5
FUEL INJECTOR #6
FUEL INJECTOR #7
FUEL INJECTOR #8
151-7 A8
151-7 A7
151-7 A6
151-7 B1
151-6 F9
151-6 D10
151-6 C10
151-6 B10
C119
C122
C123
C136
C135
C134
C170
C171
555 TN
556 WH
557 BN/YE
558 BN/LB
559 TN/BK
560 LG/OG
561 TN/RD
562 LB
SOLID STATE
C154
POWERTRAIN CONTROL MODULE (PCM)
151-17 A9
151-11 A3
C115F
C116M
75
101
74
100
73
99
72
98

Diagram 26-6

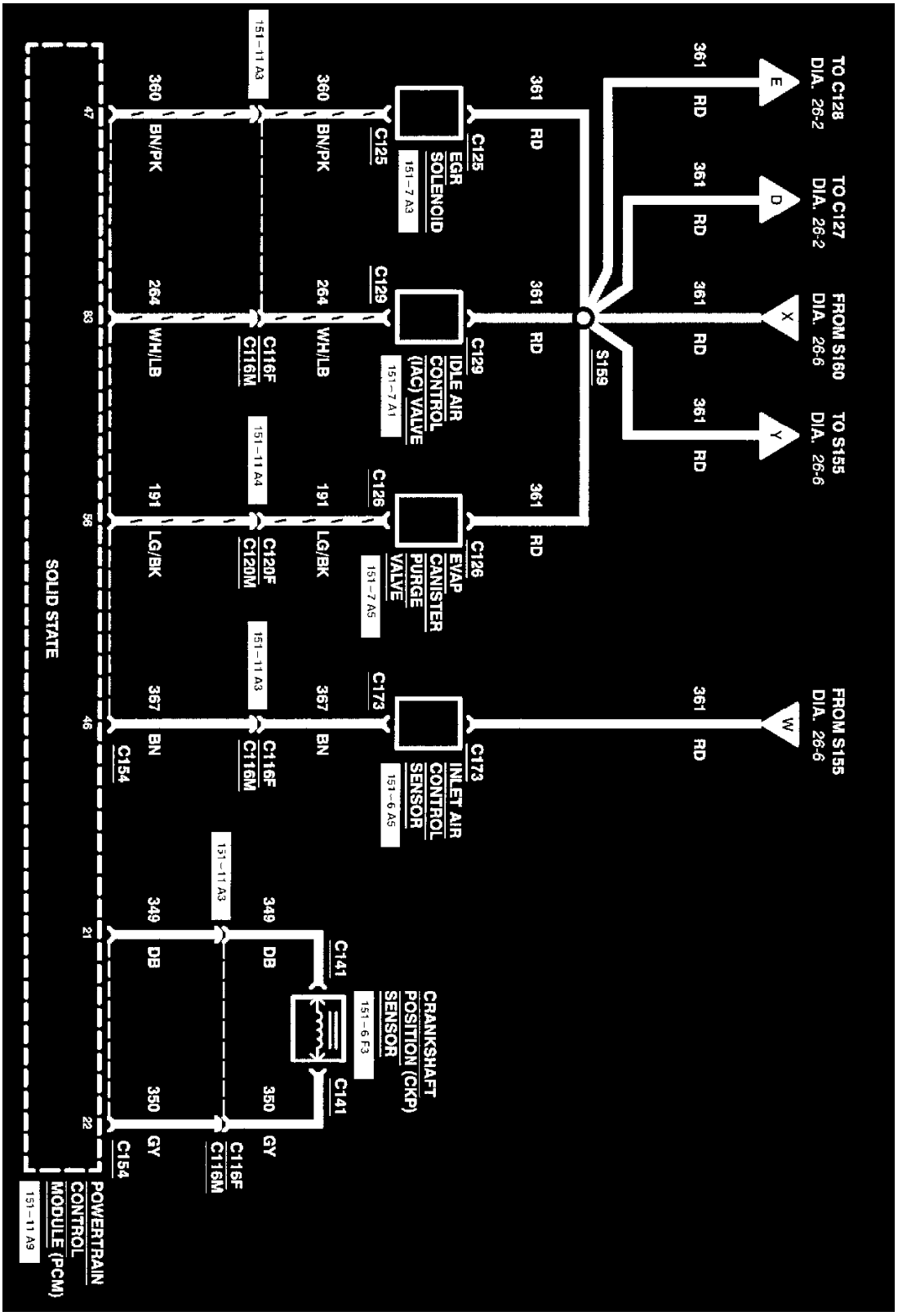

TO C128
DIA. 26-2
TO C127
DIA. 26-2
FROM S160
DIA. 26-6
TO S155
DIA. 26-6
FROM S155
DIA. 26-6
E
D
X
Y
W
361
RD
S159
C125
EGR
SOLENOID
151-7 A3
C129
IDLE AIR
CONTROL
(IAC) VALVE
151-7 A1
C126
EVAP
CANISTER
PURGE
VALVE
151-7 A5
C173
INLET AIR
CONTROL
SENSOR
151-6 A5
C125
C129
C126
C173
360
BN/PK
264
WH/LB
191
LG/BK
367
BN
C116F
C116M
C120F
C120M
C154
151-11 A3
151-11 A4
47
83
56
46
SOLID STATE
CRANKSHAFT
POSITION (CKP)
SENSOR
151-6 F3
C141
349
DB
350
GY
21
22
POWERTRAIN
CONTROL
MODULE (PCM)
151-11 A9

Diagram 26-7

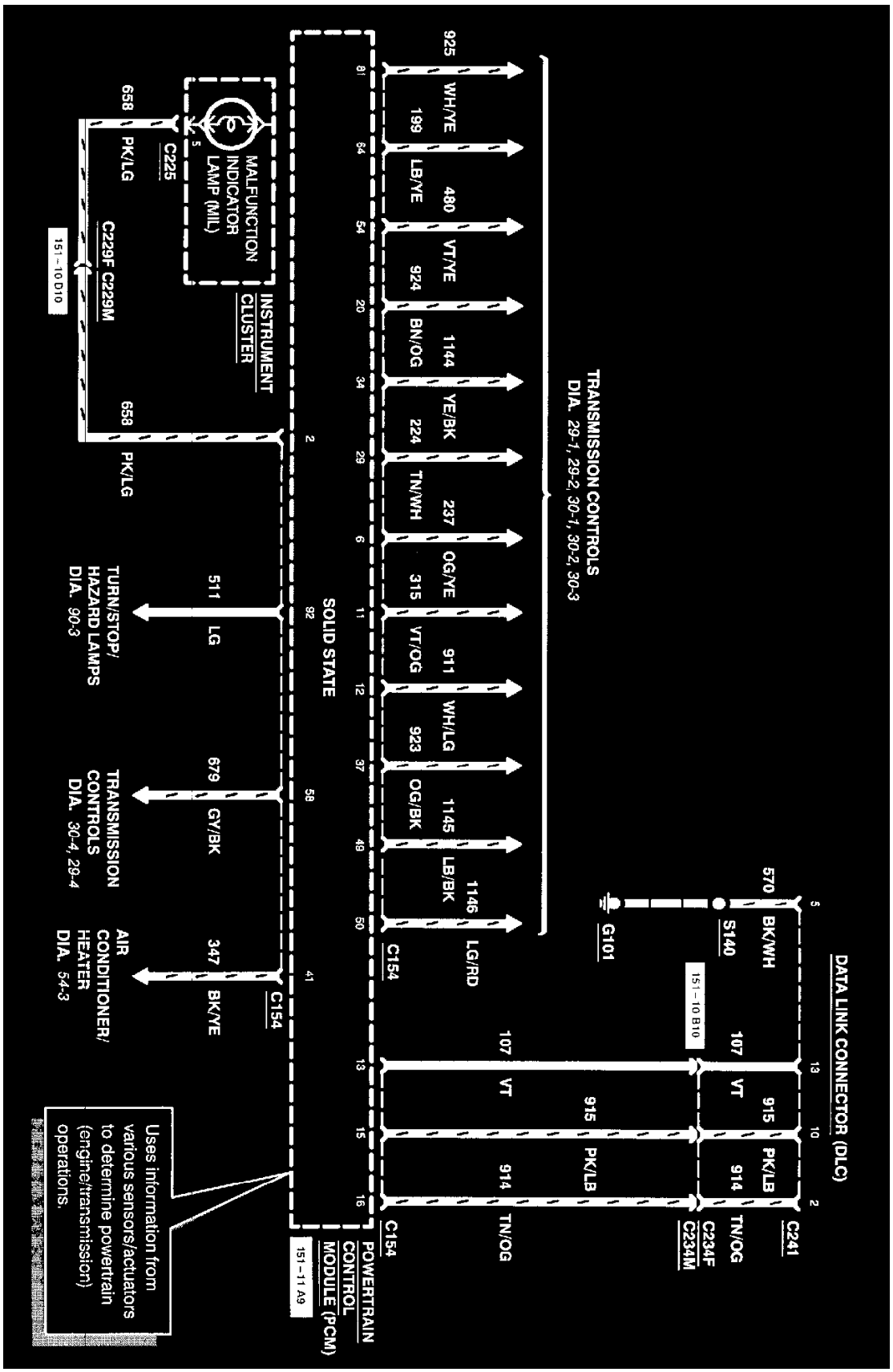

DATA LINK CONNECTOR (DLC)
C241
C234F
C234M
TRANSMISSION CONTROLS
DIA. 29-1, 29-2, 30-1, 30-2, 30-3
G101
S140
151 – 10 B10
570
BK/WH
107
VT
915
PK/LB
914
TN/OG
925
WH/YE
199
LB/YE
480
VT/YE
924
BN/OG
1144
YE/BK
224
TN/WH
237
OG/YE
315
VT/OG
911
WH/LG
923
OG/BK
1145
LB/BK
1146
LG/RD
C154
POWERTRAIN CONTROL MODULE (PCM)
151 – 11 A9
SOLID STATE
INSTRUMENT CLUSTER
MALFUNCTION INDICATOR LAMP (MIL)
C225
658
PK/LG
C229F C229M
151 – 10 D10
511
LG
679
GY/BK
347
BK/YE
TURN/STOP/ HAZARD LAMPS
DIA. 90-3
TRANSMISSION CONTROLS
DIA. 30-4, 29-4
AIR CONDITIONER/ HEATER
DIA. 54-3
Uses information from various sensors/actuators to determine powertrain (engine/transmission) operations.

Diagram 26-8

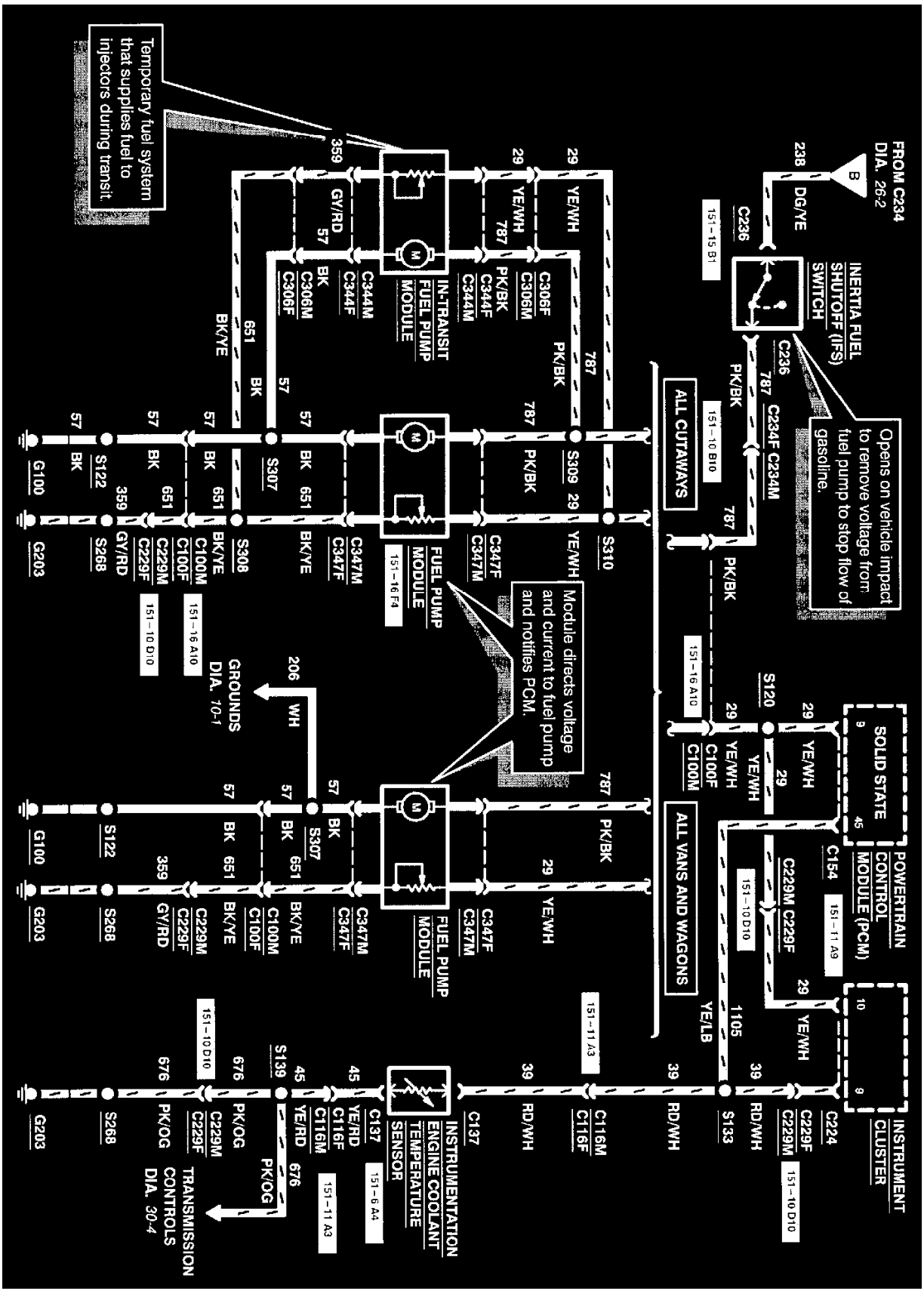


Diagram 26-9

System Diagram

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

Data Link Connector

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

Engine Control Module

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

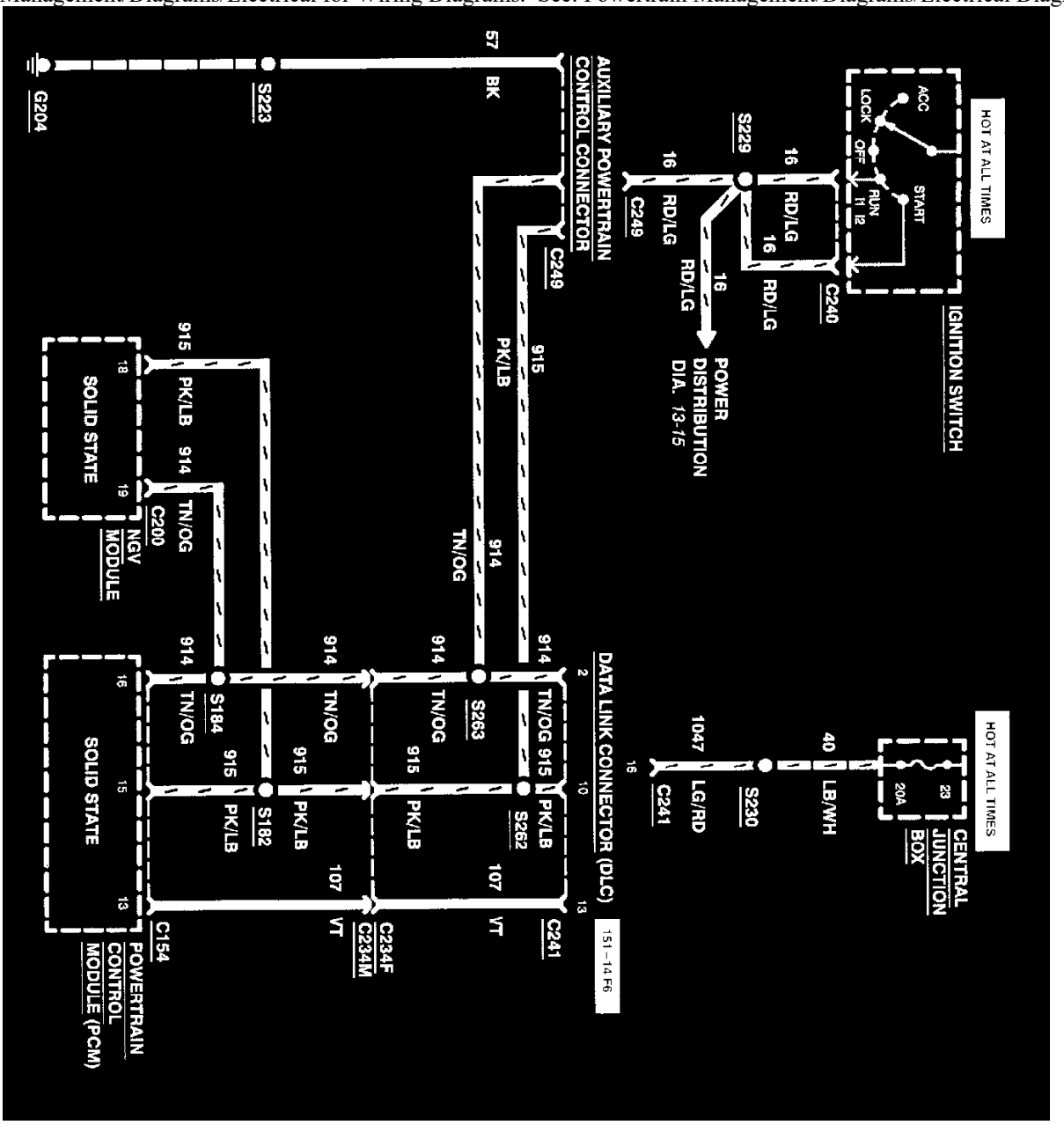


Diagram 14-1

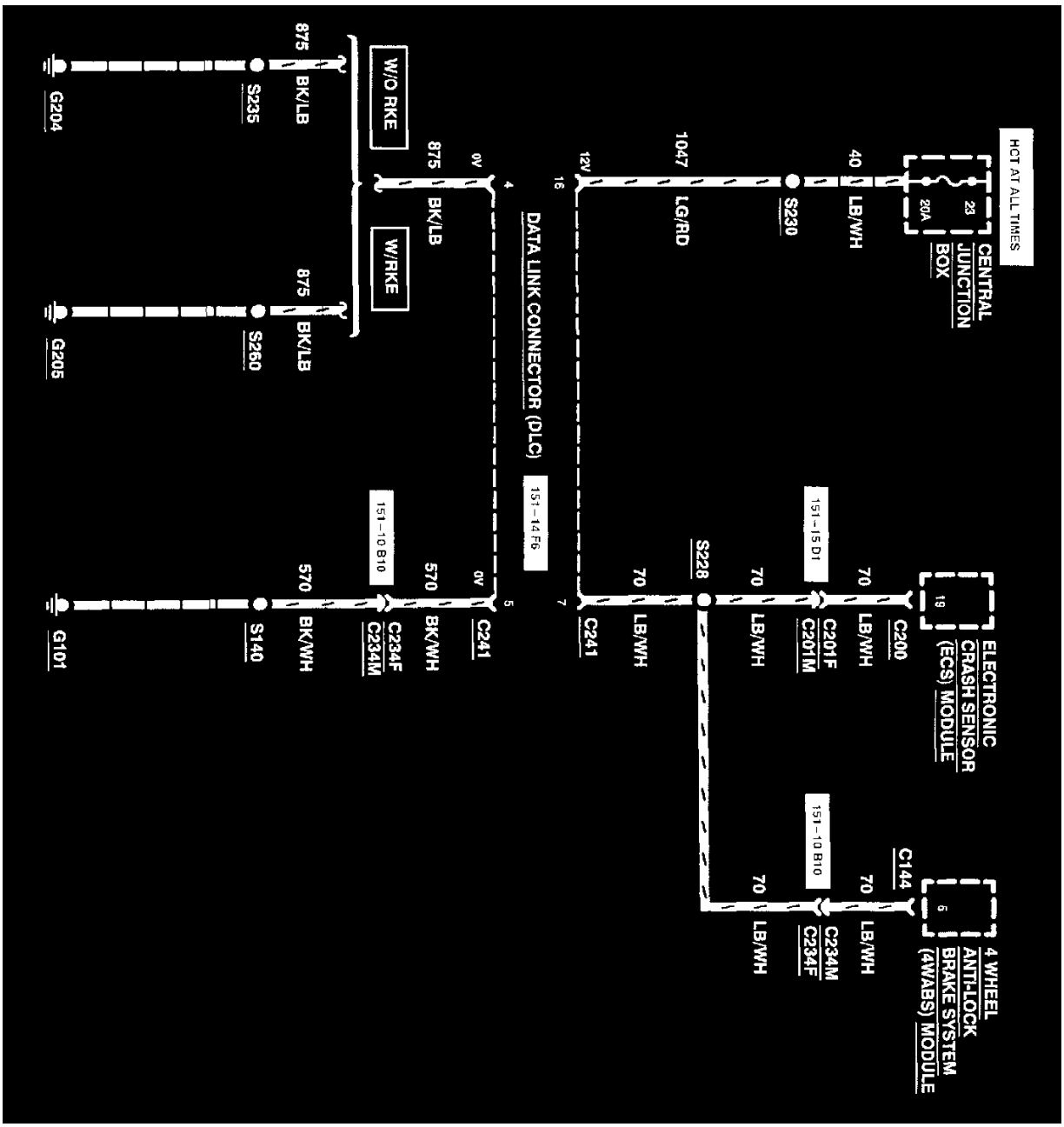


Diagram 14-2

Oxygen Sensor

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

Vehicle Speed Sensor

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

Emission Control Systems

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

System Diagram

For Fuel Delivery and Air Induction wiring diagrams, refer to Powertrain Management/Diagrams/Electrical Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

System Diagram

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

Fuel Pump Relay

Refer to Powertrain Management/Diagrams/Electrical for Wiring Diagrams. See: Powertrain Management/Diagrams/Electrical Diagrams

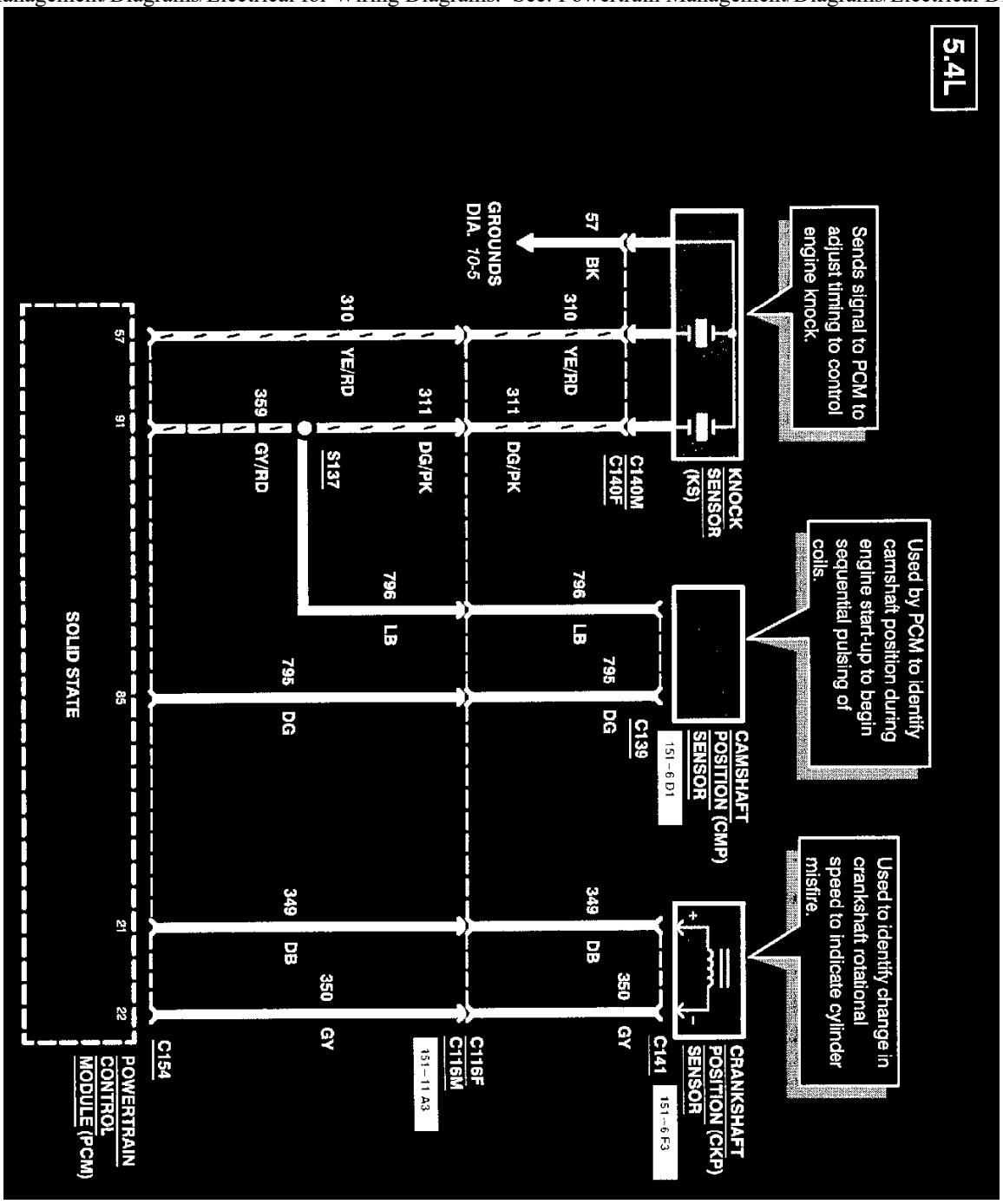


Diagram 21-3

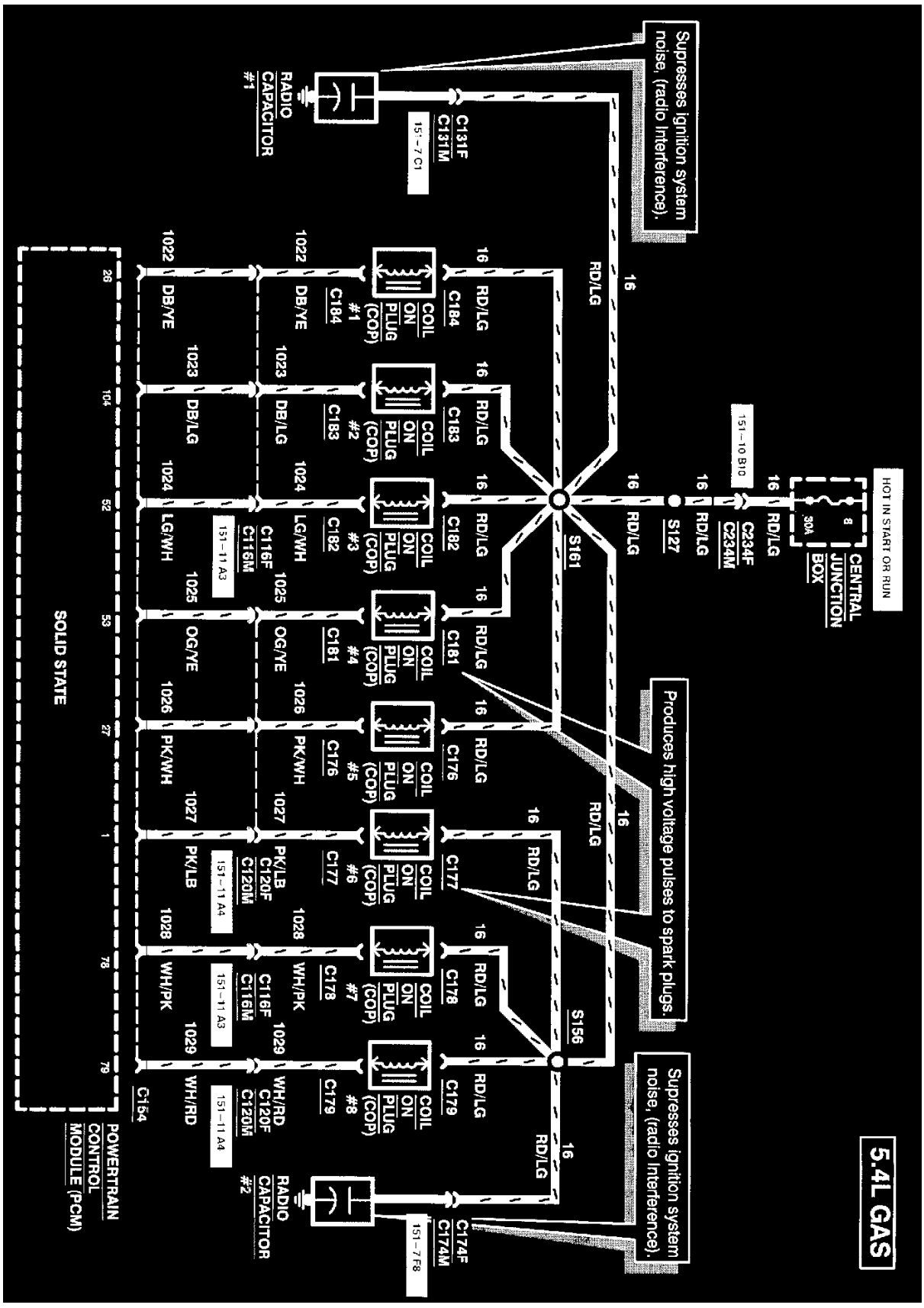

5.4L GAS
HOT IN START OR RUN
CENTRAL JUNCTION BOX
8
30A
RD/LG
C234F
C234M
151-10 B10
S127
S161
S156
Supresses ignition system noise, (radio interference).
Produces high voltage pulses to spark plugs.
RADIO CAPACITOR #1
RADIO CAPACITOR #2
C131F
C131M
151-7 C1
C174F
C174M
151-7 F8
COIL ON PLUG (COP)
#1 C184
#2 C183
#3 C182
#4 C181
#5 C176
#6 C177
#7 C178
#8 C179
C116F
C116M
151-11 A3
C120F
C120M
151-11 A4
C154
POWERTRAIN CONTROL MODULE (PCM)
SOLID STATE
16
RD/LG
DB/YE
DB/LG
LG/WH
OG/YE
PK/WH
PK/LB
WH/PK
WH/RD
1022
1023
1024
1025
1026
1027
1028
1029
26
104
52
53
27
1
78
79

Diagram 21-4

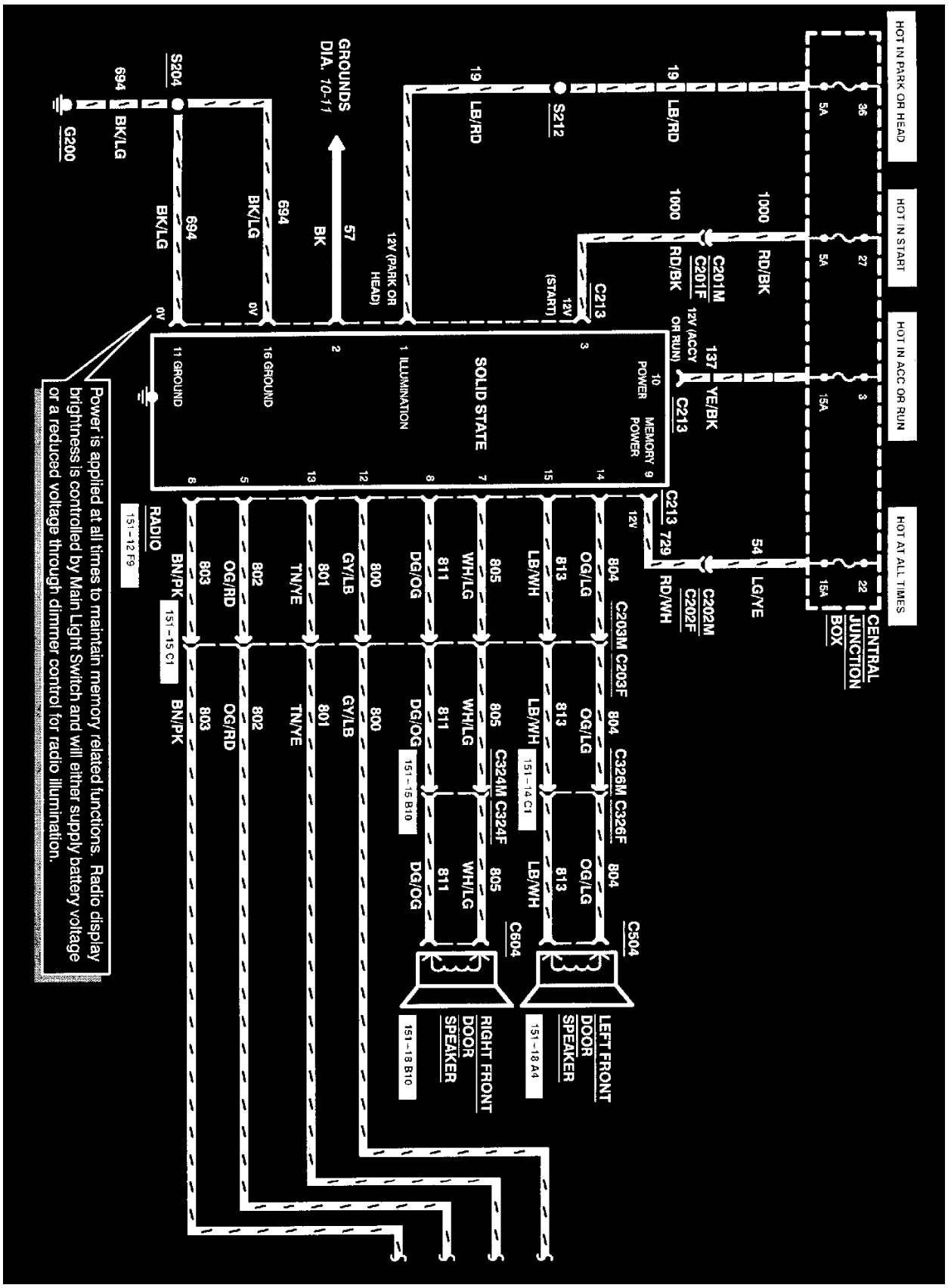


Diagram 130-1

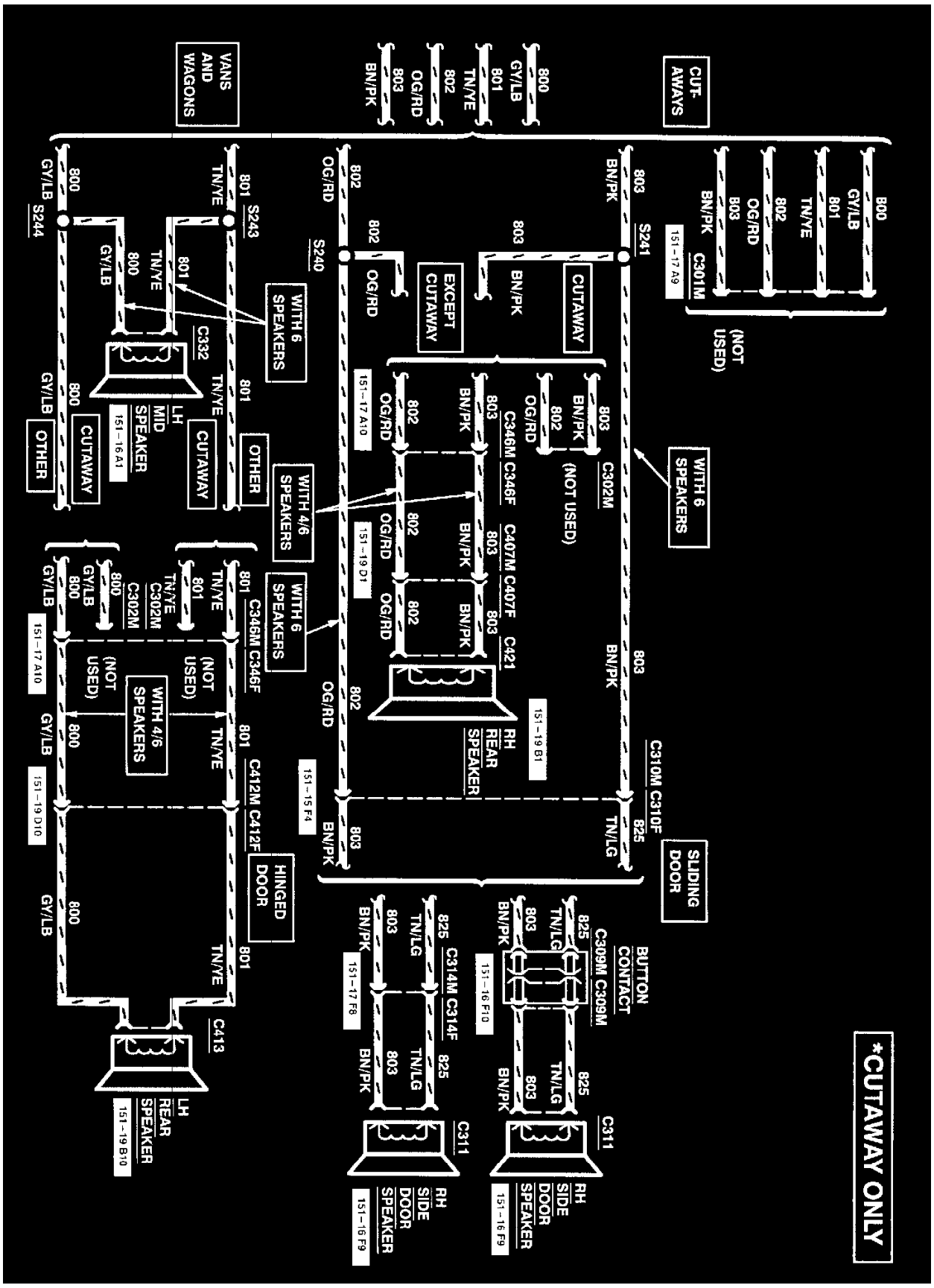


Diagram 130-2

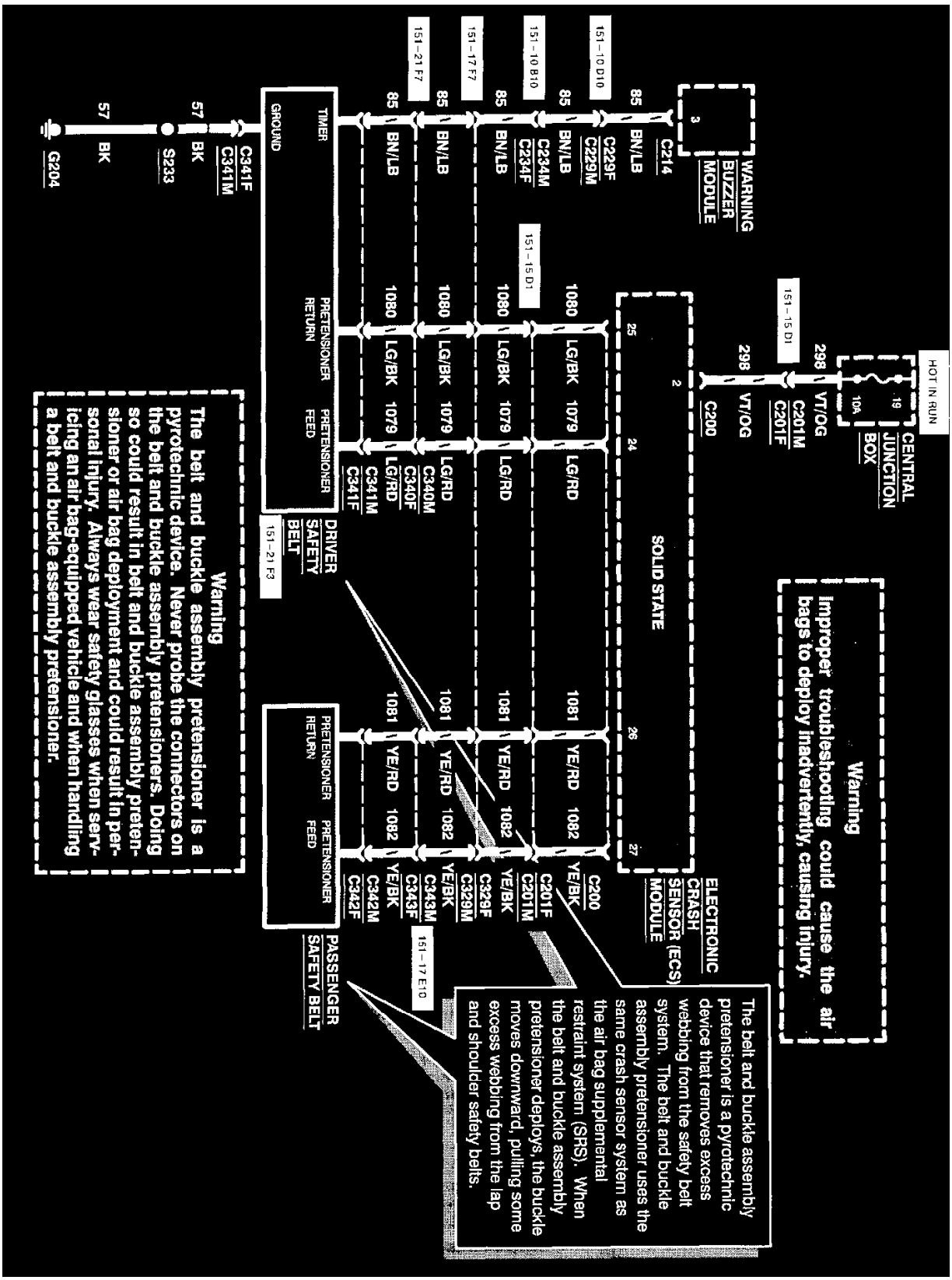

HOT IN RUN
CENTRAL JUNCTION BOX
19
10A
298
VT/OG
C201M
C201F
151-15 D1
C200
Warning
Improper troubleshooting could cause the air bags to deploy inadvertently, causing injury.
WARNING BUZZER MODULE
3
C214
85
BN/LB
C229F
C229M
151-10 D10
C234M
C234F
151-10 B10
151-17 F7
151-21 F7
151-15 D1
SOLID STATE
2
25
24
26
27
1080
LG/BK
1079
LG/RD
1081
YE/RD
1082
ELECTRONIC CRASH SENSOR (ECS) MODULE
C200
YE/BK
C201F
C201M
C329F
C329M
C343M
C343F
C342M
C342F
151-17 E10
PASSENGER SAFETY BELT
PRETENSIONER RETURN
PRETENSIONER FEED
C340M
C340F
C341M
C341F
TIMER
DRIVER SAFETY BELT
151-21 F3
GROUND
C341F
C341M
57
BK
S233
G204
The belt and buckle assembly pretensioner is a pyrotechnic device that removes excess webbing from the safety belt system. The belt and buckle assembly pretensioner uses the same crash sensor system as the air bag supplemental restraint system (SRS). When the belt and buckle assembly pretensioner deploys, the buckle moves downward, pulling some excess webbing from the lap and shoulder safety belts.
Warning
The belt and buckle assembly pretensioner is a pyrotechnic device. Never probe the connectors on the belt and buckle assembly pretensioners. Doing so could result in belt and buckle assembly pretensioner or air bag deployment and could result in personal injury. Always wear safety glasses when servicing an air bag-equipped vehicle and when handling a belt and buckle assembly pretensioner.

Diagram 45-1

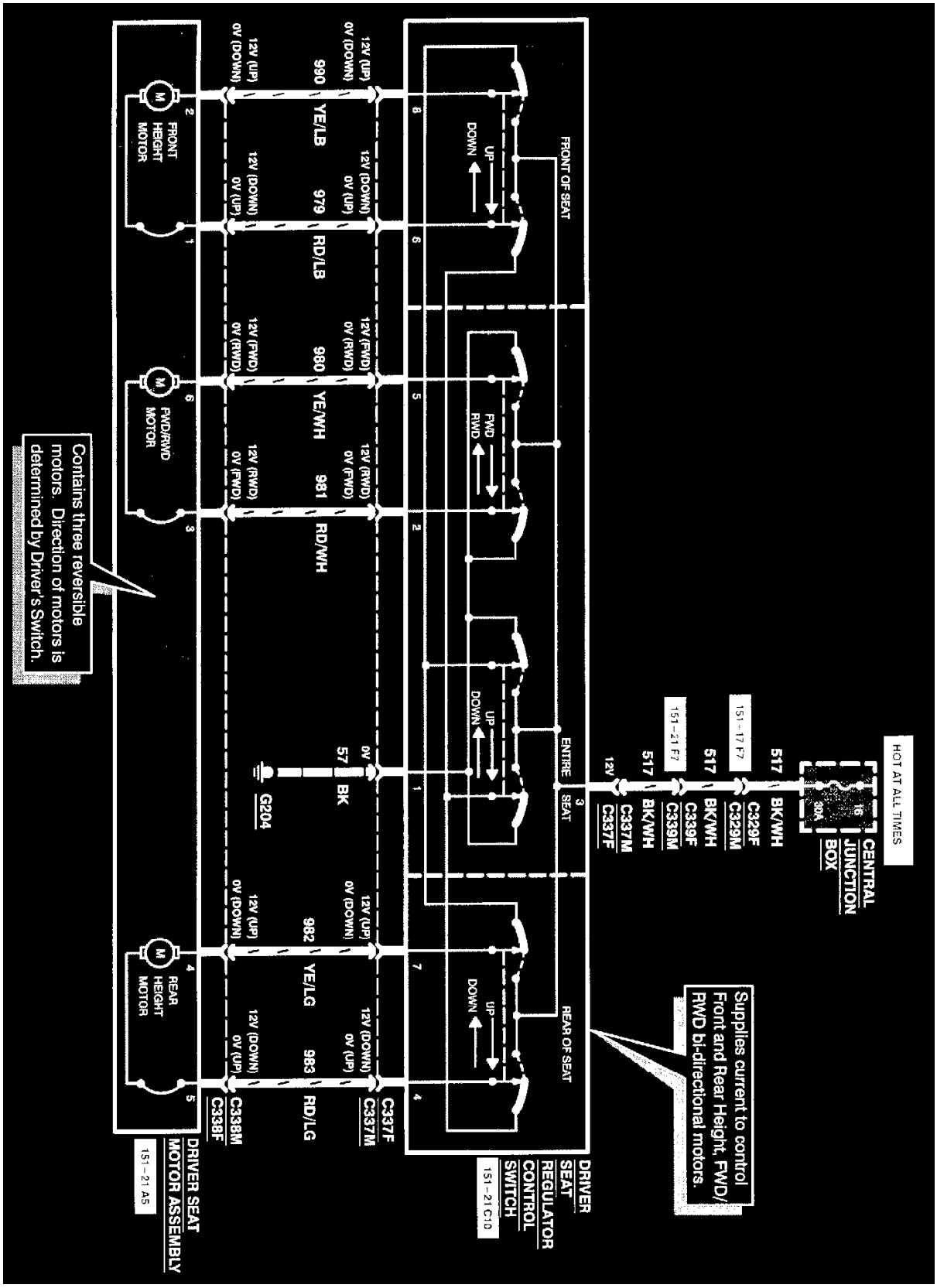


Diagram 120-1

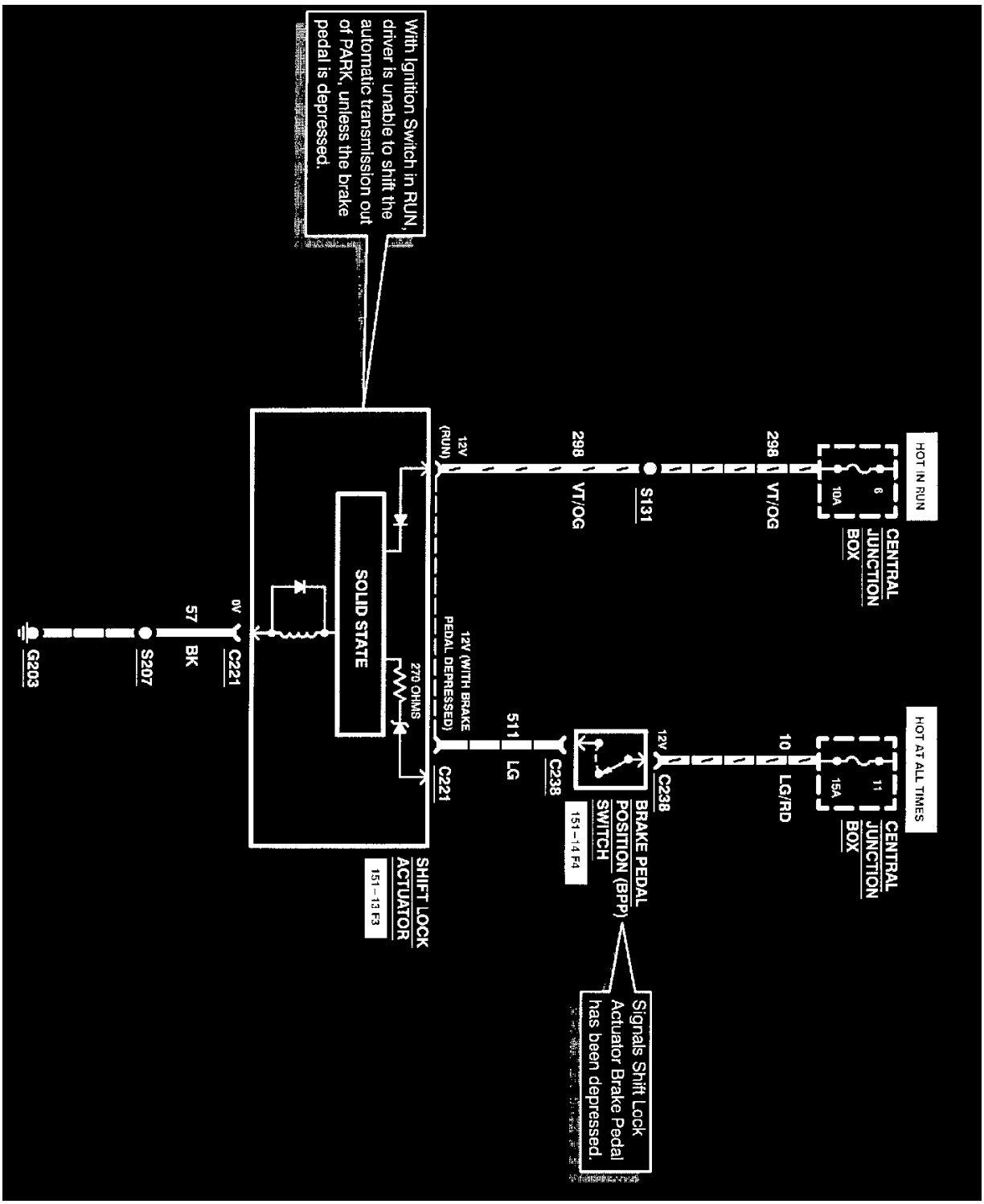

With Ignition Switch in RUN, driver is unable to shift the automatic transmission out of PARK, unless the brake pedal is depressed.
HOT IN RUN
CENTRAL JUNCTION BOX
6
10A
298
VT/OG
S131
298
VT/OG
12V (RUN)
SOLID STATE
0V
57
BK
S207
G203
C221
270 OHMS
12V (WITH BRAKE PEDAL DEPRESSED)
511
LG
C238
C221
SHIFT LOCK ACTUATOR
151-13 F3
HOT AT ALL TIMES
CENTRAL JUNCTION BOX
11
15A
10
LG/RD
12V
C238
BRAKE PEDAL POSITION (BPP) SWITCH
151-14 F4
Signals Shift Lock Actuator Brake Pedal has been depressed.

Diagram 37-1

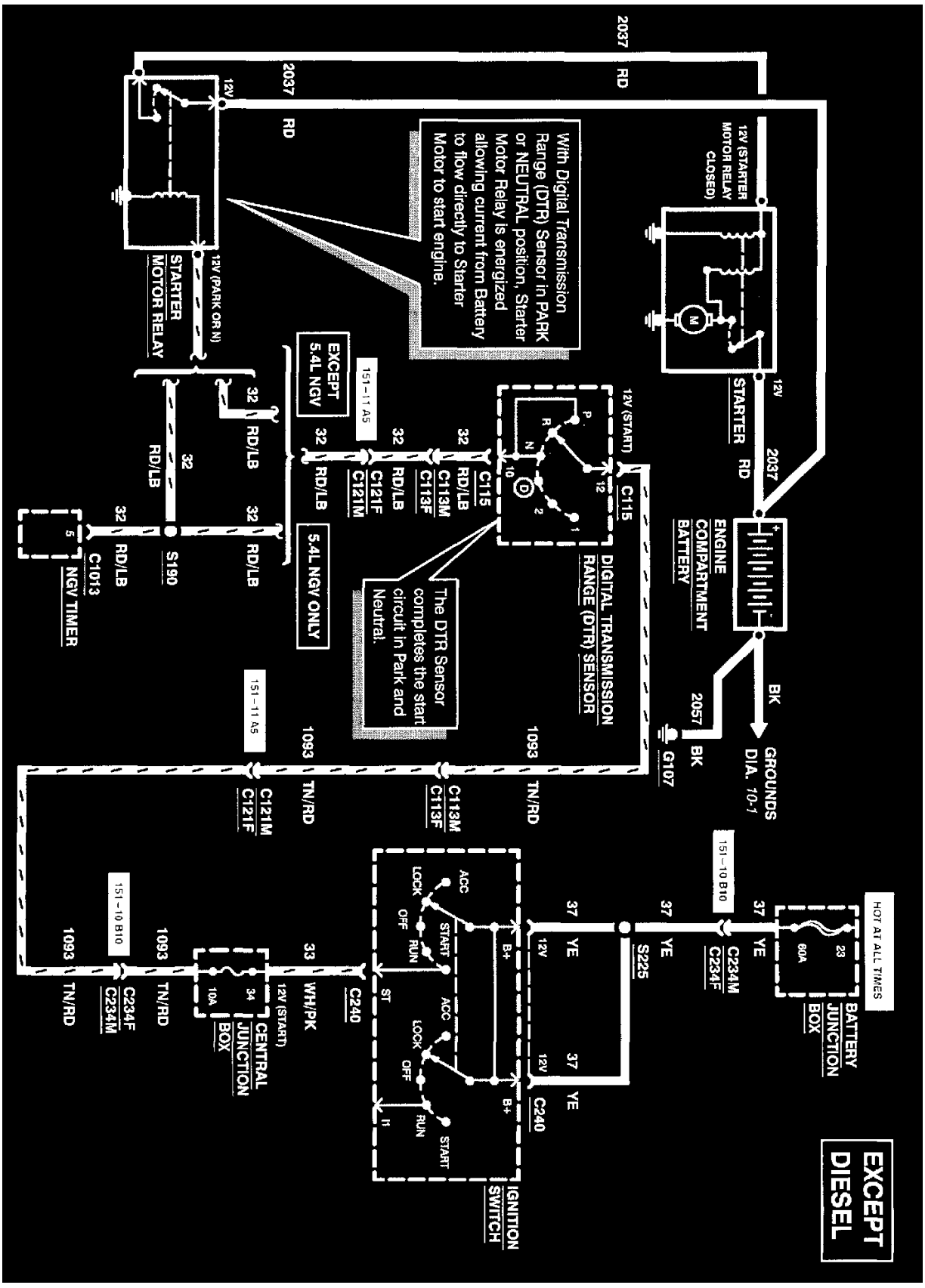


Diagram 20-1

Ignition Switch

See: Electrical Diagrams/Power and Ground Distribution/System Diagram/Power Distribution Diagrams

Trailer Connector

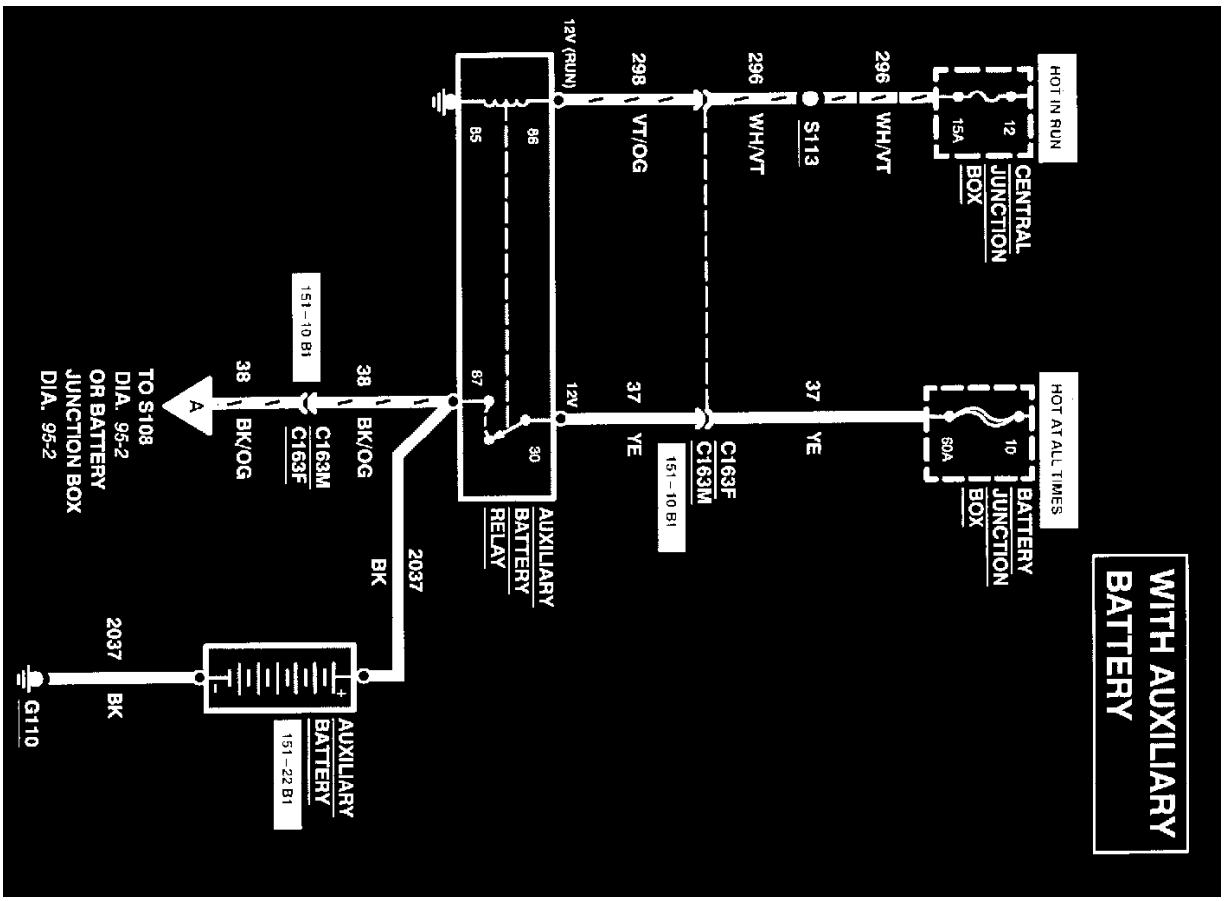


Diagram 95-1

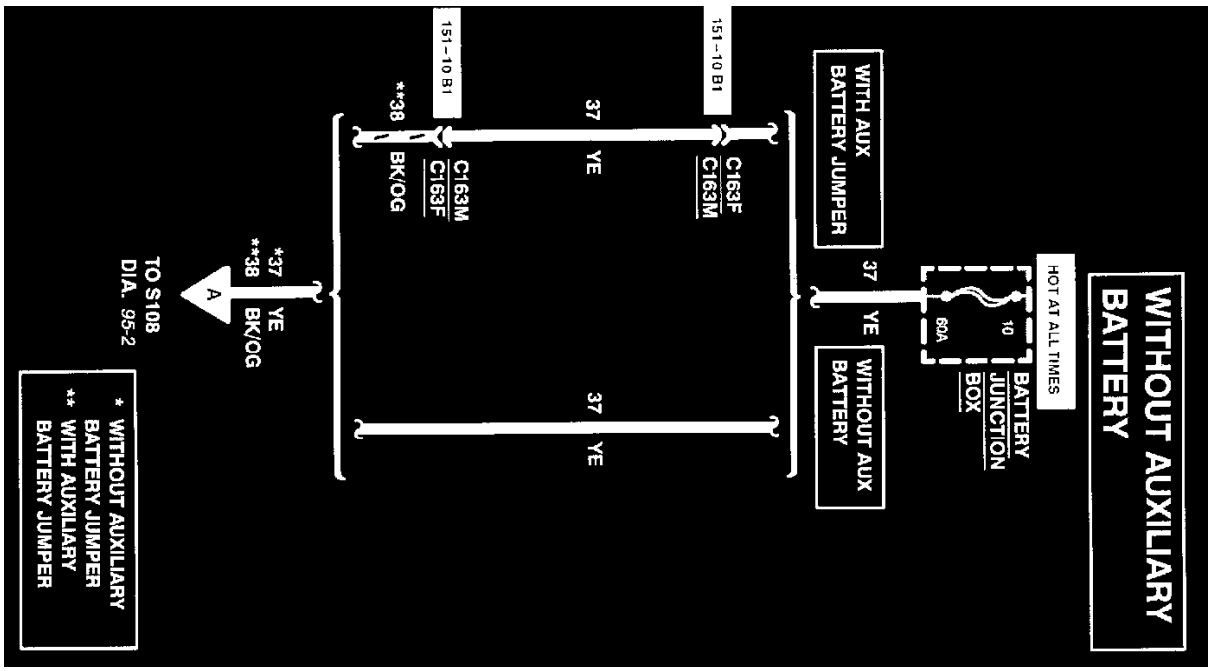


Diagram 95-1

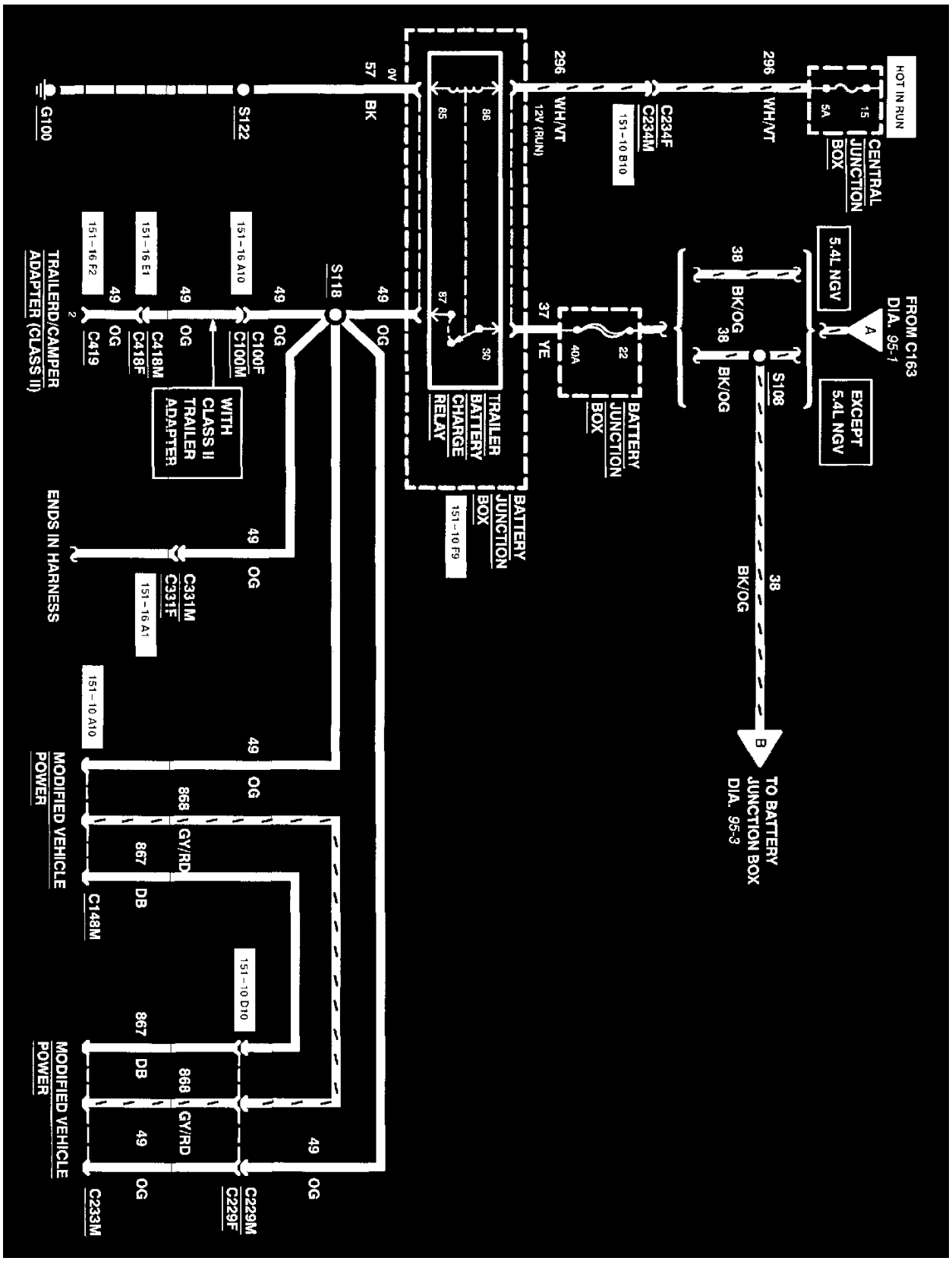

HOT IN RUN
CENTRAL JUNCTION BOX
15
5A
FROM C163
DIA. 95-1
A
5.4L NGV
EXCEPT 5.4L NGV
296
WH/VT
38
BK/OG
S108
TO BATTERY JUNCTION BOX
DIA. 95-3
B
C234F
C234M
151-10 B10
BATTERY JUNCTION BOX
22
40A
37
YE
12V (RUN)
TRAILER BATTERY CHARGE RELAY
86
85
87
30
151-10 F9
0V
57
BK
G100
S122
S118
49
OG
C100F
C100M
151-16 A10
WITH CLASS II TRAILER ADAPTER
C418M
C418F
151-16 E1
C419
151-16 F2
2
TRAILER/CAMPER ADAPTER (CLASS II)
ENDS IN HARNESS
C331M
C331F
151-16 A1
151-10 A10
MODIFIED VEHICLE POWER
868
GY/RD
867
DB
C148M
151-10 D10
C229M
C229F
C233M

Diagram 95-2

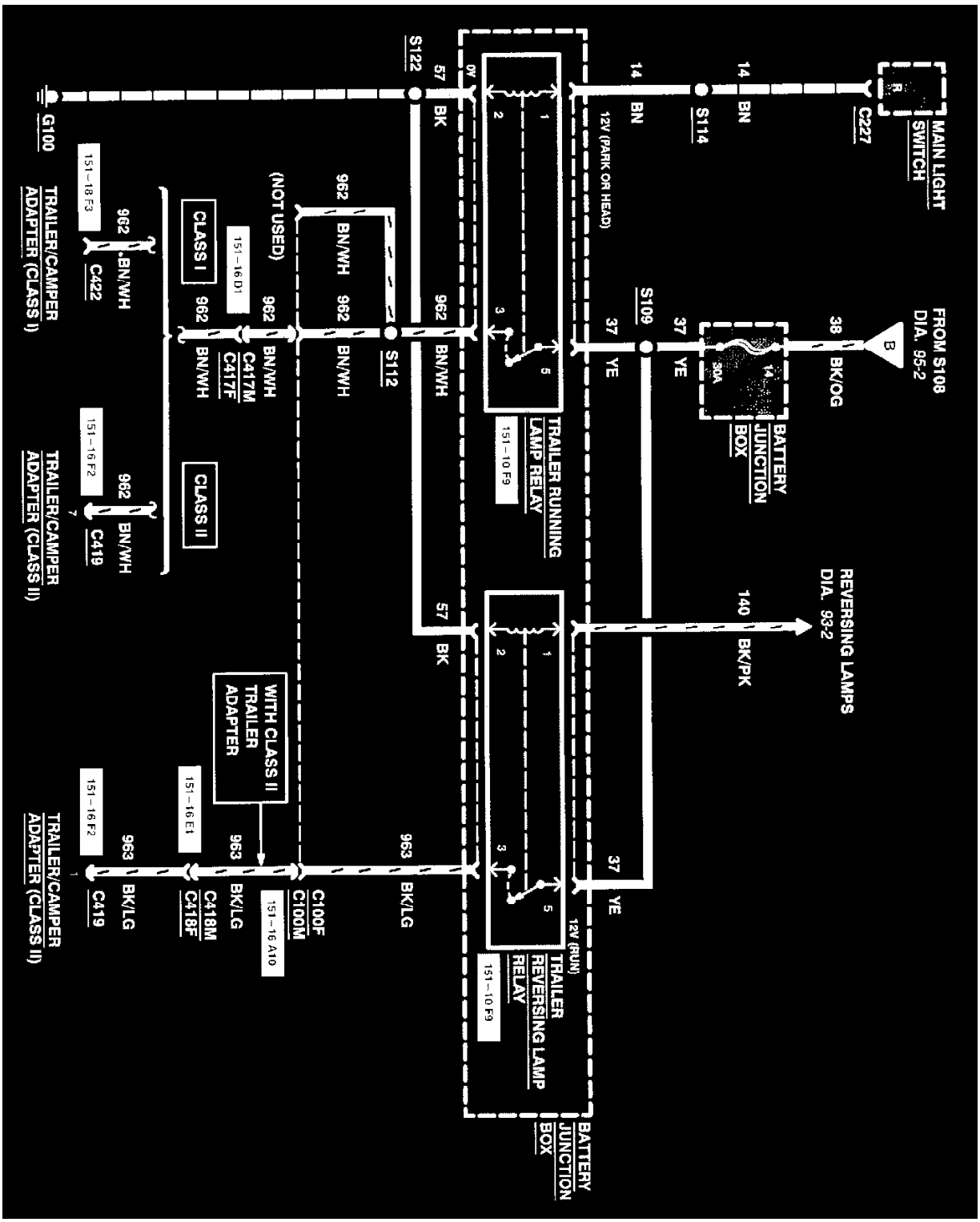

MAIN LIGHT SWITCH
C227
FROM S108 DIA. 95-2
38 BK/OG
BATTERY JUNCTION BOX
14 BN
S114
37 YE
S109
14 BN
12V (PARK OR HEAD)
REVERSING LAMPS DIA. 93-2
140 BK/PK
TRAILER RUNNING LAMP RELAY
151-10 F9
57 BK
S122
G100
TRAILER/CAMPER ADAPTER (CLASS I)
962 BN/WH
C422
151-18 F3
CLASS I
(NOT USED)
151-16 D1
962 BN/WH
C417M
C417F
962 BN/WH
S112
962 BN/WH
BN/WH
CLASS II
962 BN/WH
C419
151-16 F2
TRAILER/CAMPER ADAPTER (CLASS II)
WITH CLASS II TRAILER ADAPTER
963 BK/LG
C418M
C418F
151-16 E1
963 BK/LG
C419
151-16 F2
TRAILER/CAMPER ADAPTER (CLASS II)
963 BK/LG
C100F
C100M
151-16 A10
12V (RUN)
TRAILER REVERSING LAMP RELAY
151-10 F9
BATTERY JUNCTION BOX

Diagram 95-3

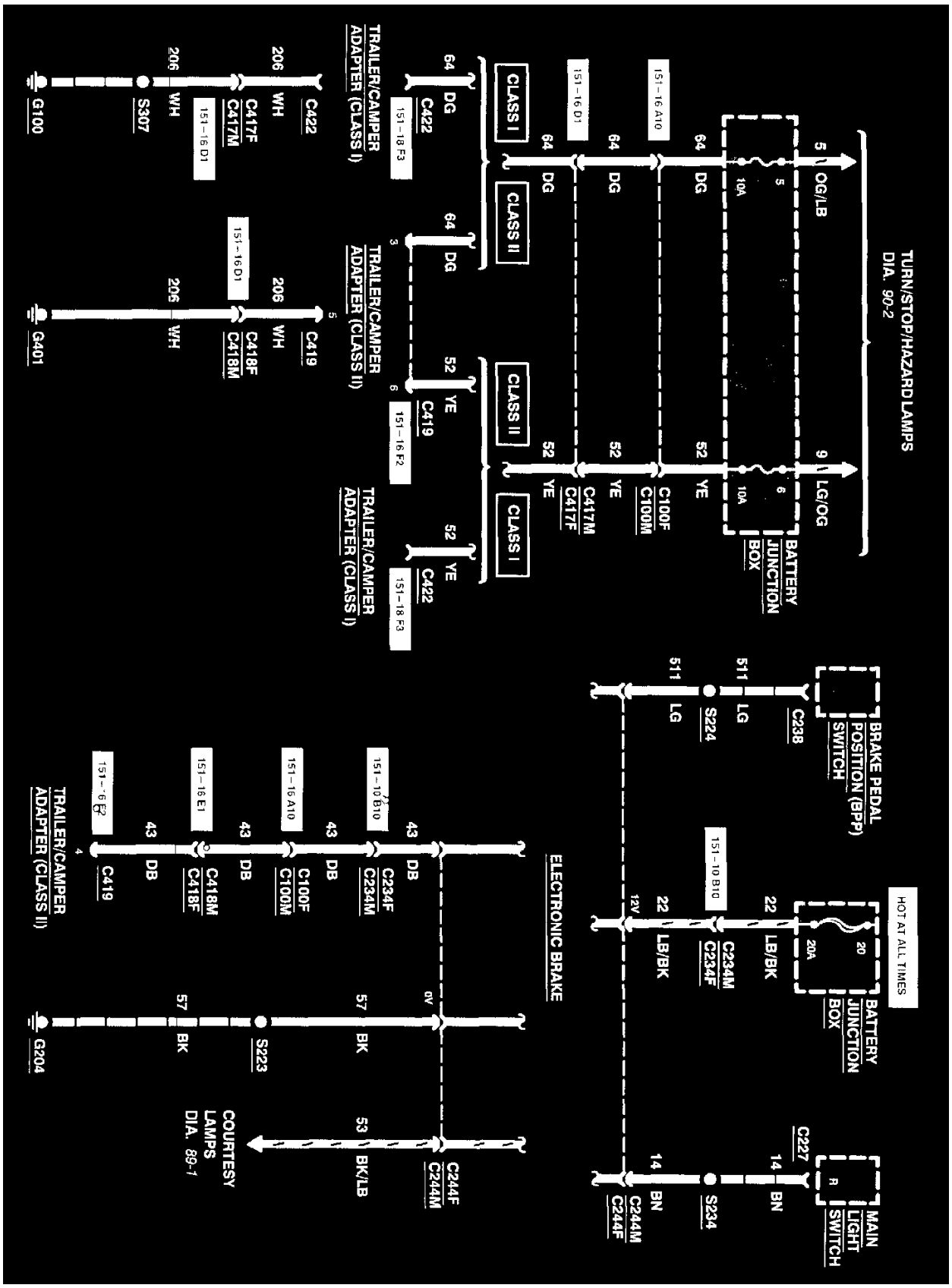


Diagram 95-4

4R70W Transmission

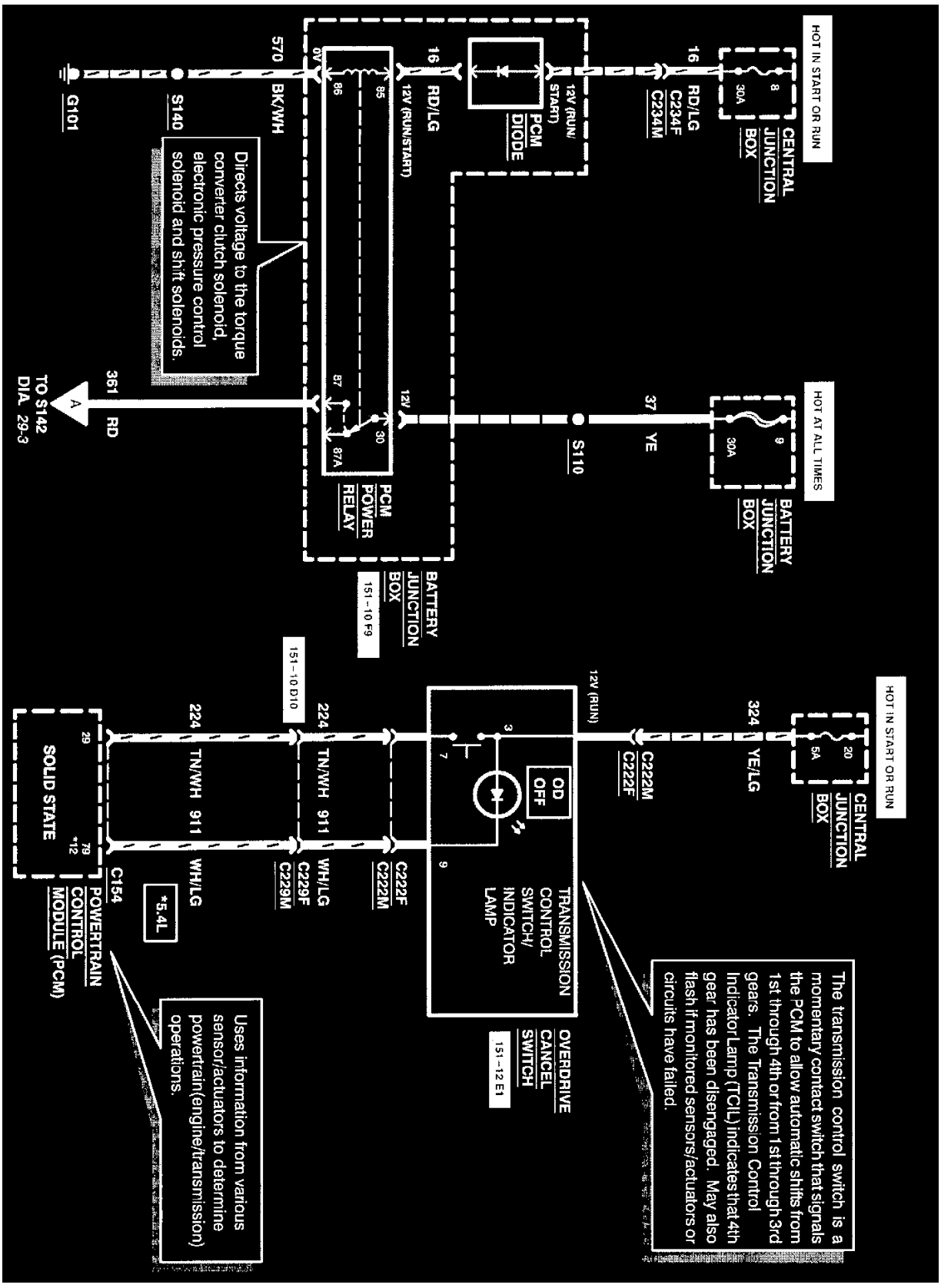

HOT IN START OR RUN
CENTRAL JUNCTION BOX
8
30A
16
RD/LG
C234F
C234M
12V (RUN/START)
PCM DIODE
16
RD/LG
12V (RUN/START)
570
BK/WH
G101
S140
Directs voltage to the torque converter clutch solenoid, electronic pressure control solenoid and shift solenoids.
361
RD
TO S142
DIA 29-3
HOT AT ALL TIMES
BATTERY JUNCTION BOX
9
30A
37
YE
S110
PCM POWER RELAY
86
85
87
87A
30
12V
151-10 F9
HOT IN START OR RUN
CENTRAL JUNCTION BOX
20
5A
324
YE/LG
C222M
C222F
12V (RUN)
The transmission control switch is a momentary contact switch that signals the PCM to allow automatic shifts from the PCM to allow automatic shifts from 1st through 4th or from 1st through 3rd gears. The Transmission Control Indicator Lamp (TCIL) indicates that 4th gear has been disengaged. May also flash if monitored sensors/actuators or circuits have failed.
TRANSMISSION CONTROL SWITCH/ INDICATOR LAMP
OD OFF
3
7
9
OVERDRIVE CANCEL SWITCH
151-12 E1
151-10 D10
224
TN/WH
911
C222F
C222M
WH/LG
C229F
C229M
C154
POWERTRAIN CONTROL MODULE (PCM)
29
79
*12
SOLID STATE
*5.4L
Uses information from various sensor/actuators to determine powertrain(engine/transmission) operations.

Diagram 29-1

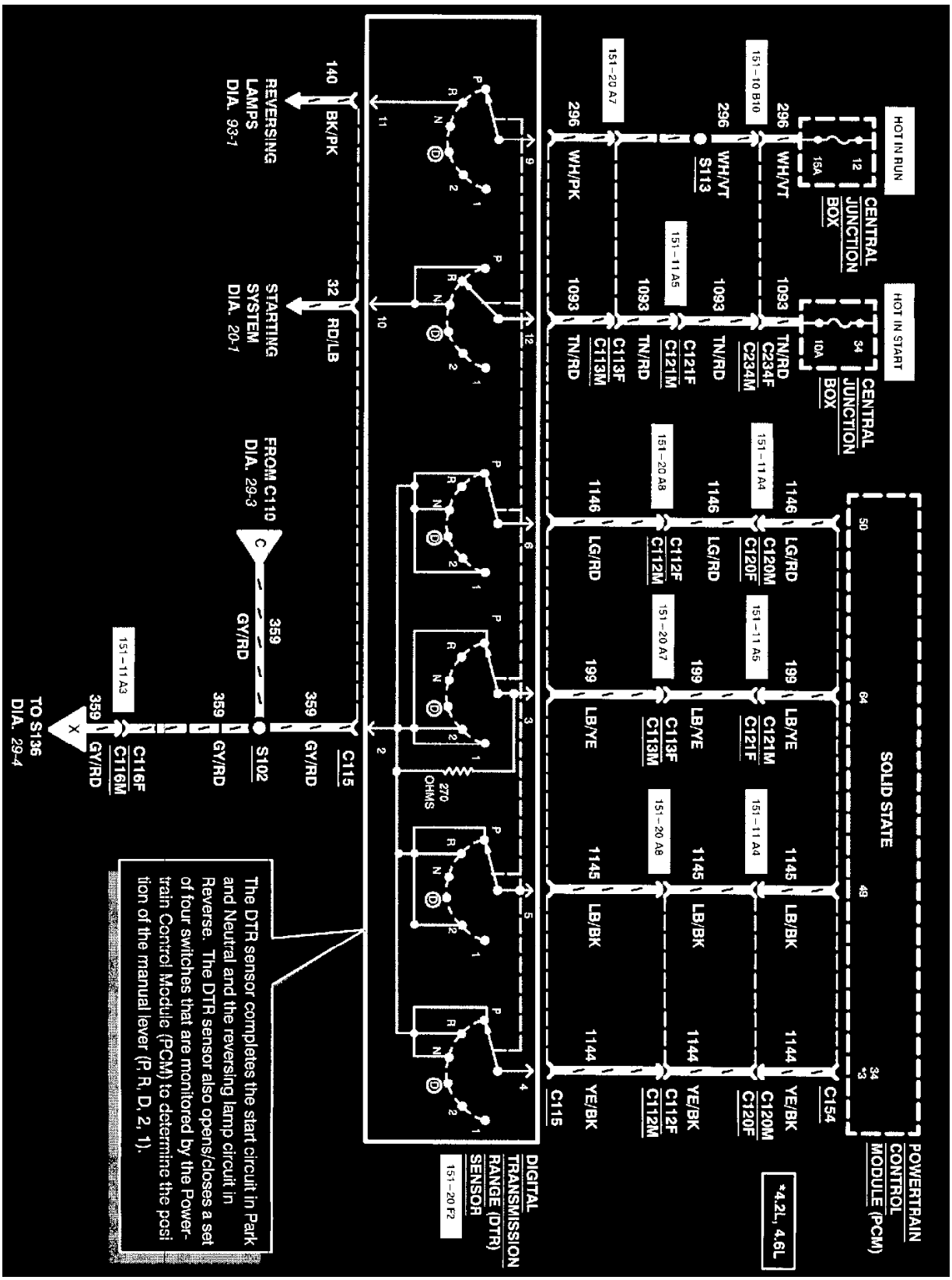

HOT IN RUN
HOT IN START
CENTRAL JUNCTION BOX
12
15A
34
10A
SOLID STATE
50
64
49
34
*3
POWERTRAIN CONTROL MODULE (PCM)
*4.2L, 4.6L
C154
C120M
C120F
C112F
C112M
C115
C113F
C113M
C121M
C121F
C234F
C234M
S113
S102
C116F
C116M
151-10 B10
151-20 A7
151-11 A5
151-11 A4
151-20 A8
151-11 A3
151-20 F2
296 WH/VT
296 WH/PK
1093 TN/RD
1146 LG/RD
199 LB/YE
1145 LB/BK
1144 YE/BK
359 GY/RD
140 BK/PK
32 RD/LB
DIGITAL TRANSMISSION RANGE (DTR) SENSOR
270 OHMS
REVERSING LAMPS DIA. 93-1
STARTING SYSTEM DIA. 20-1
FROM C110 DIA. 29-3
TO S136 DIA. 29-4
The DTR sensor completes the start circuit in Park and Neutral and the reversing lamp circuit in Reverse. The DTR sensor also opens/closes a set of four switches that are monitored by the Powertrain Control Module (PCM) to determine the position of the manual lever (P, R, D, 2, 1).

Diagram 29-2

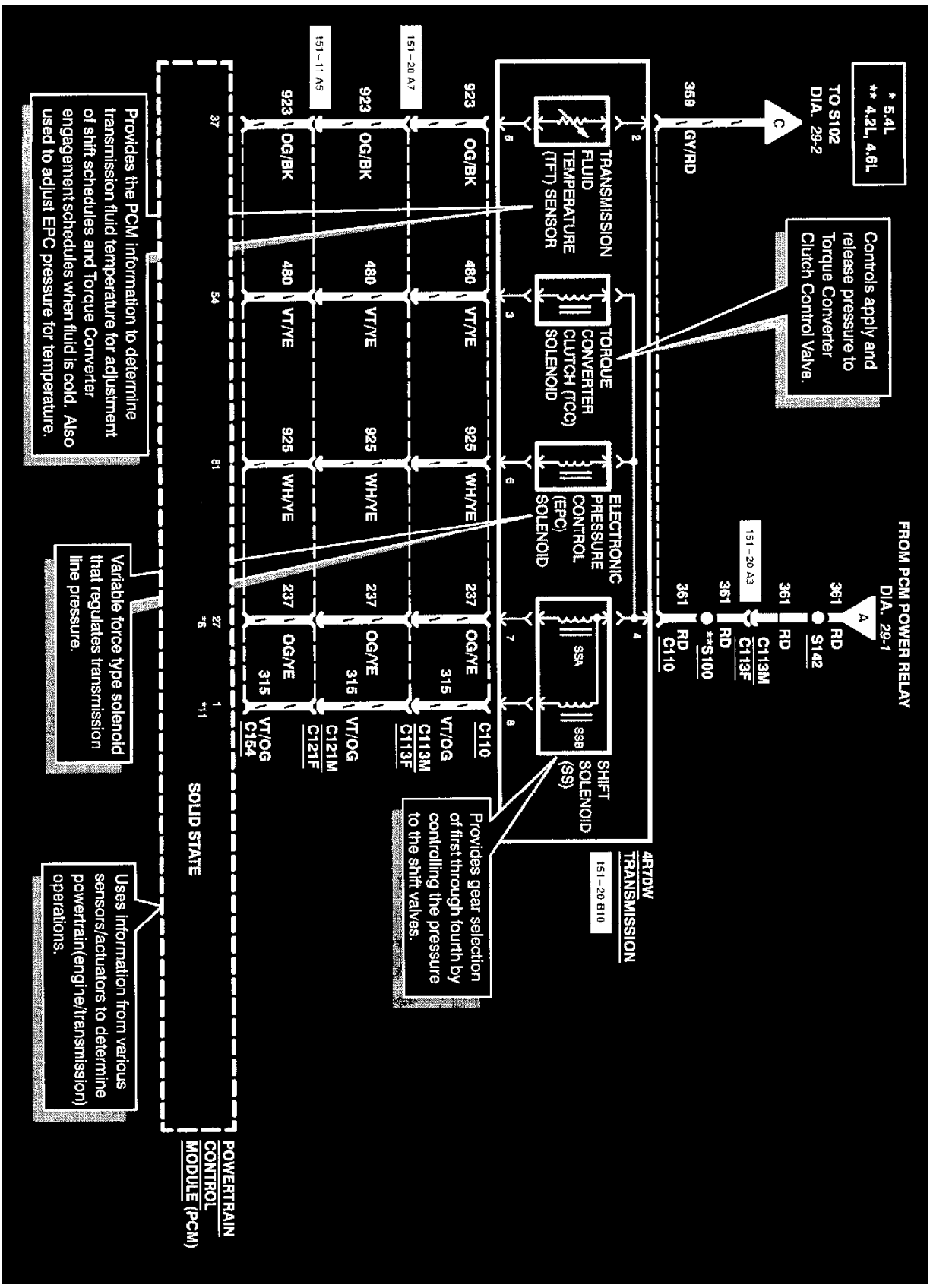

* 5.4L
** 4.2L, 4.6L
TO S102
DIA. 29-2
C
359
GY/RD
Controls apply and release pressure to Torque Converter Clutch Control Valve.
FROM PCM POWER RELAY
DIA. 29-1
A
361
RD
S142
361
RD
C113M
C113F
151-20 A3
361
RD
**S100
361
RD
C110
TRANSMISSION FLUID TEMPERATURE (TFT) SENSOR
TORQUE CONVERTER CLUTCH (TCC) SOLENOID
ELECTRONIC PRESSURE CONTROL (EPC) SOLENOID
SSA
SSB
SHIFT SOLENOID (SS)
4R70W TRANSMISSION
151-20 B10
923
OG/BK
480
VT/YE
925
WH/YE
237
OG/YE
315
VT/OG
C110
C113M
C113F
C121M
C121F
C154
151-20 A7
151-11 A5
Provides gear selection of first through fourth by controlling the pressure to the shift valves.
Provides the PCM information to determine transmission fluid temperature for adjustment of shift schedules and Torque Converter engagement schedules when fluid is cold. Also used to adjust EPC pressure for temperature.
Variable force type solenoid that regulates transmission line pressure.
Uses information from various sensors/actuators to determine powertrain(engine/transmission) operations.
SOLID STATE
POWERTRAIN CONTROL MODULE (PCM)

Diagram 29-3

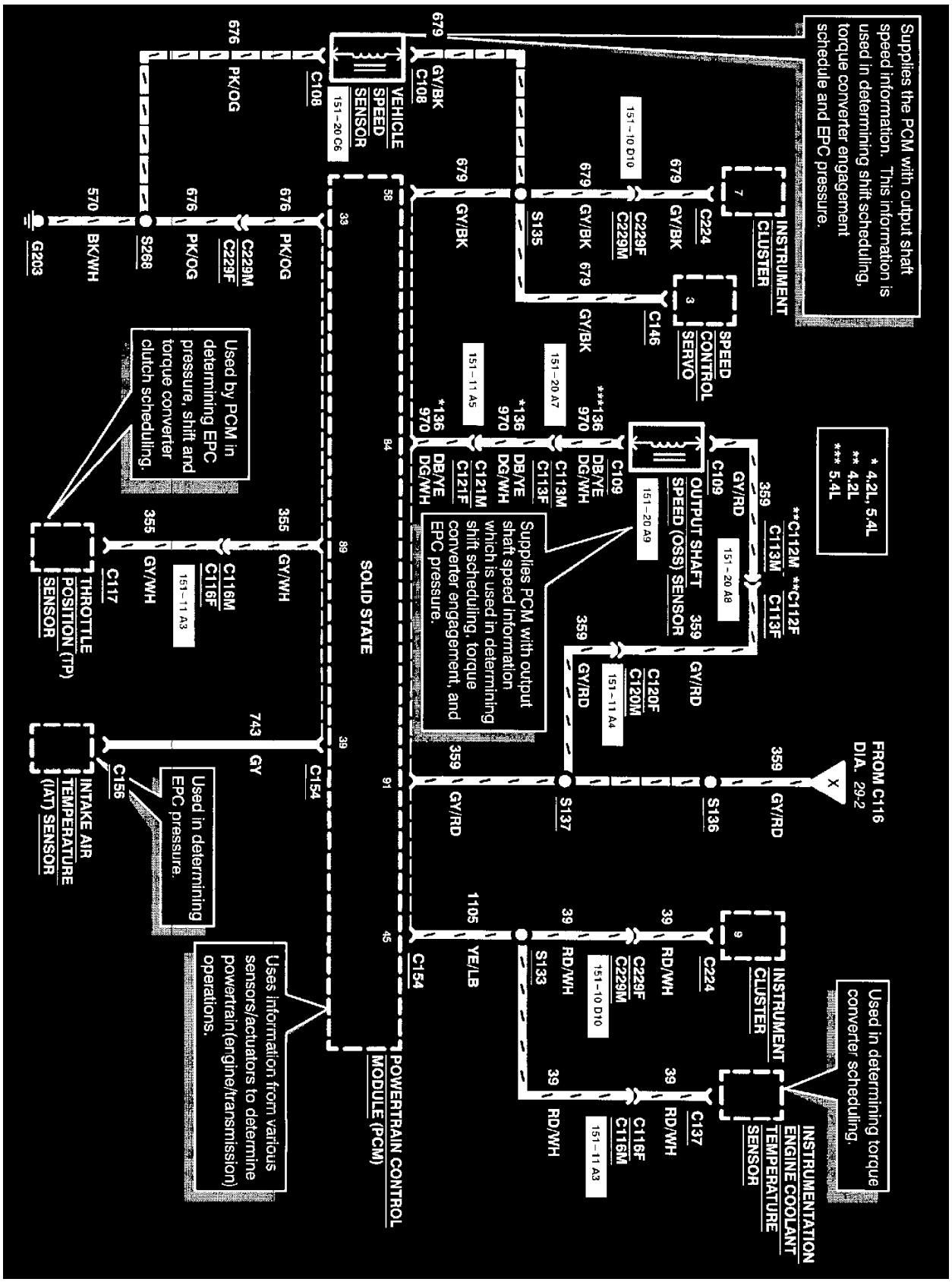


Diagram 29-4

4R100 Transmission

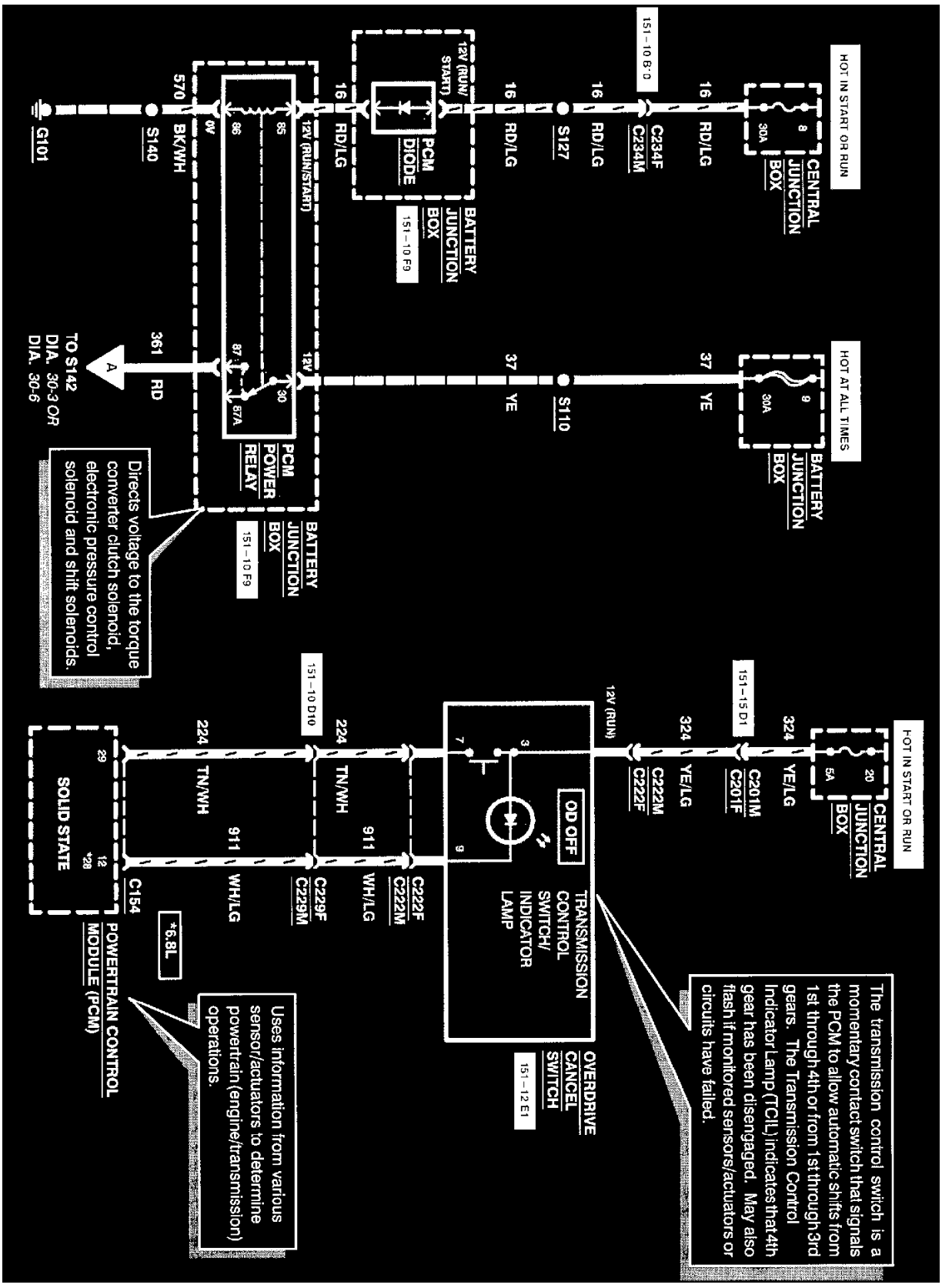

HOT IN START OR RUN
CENTRAL JUNCTION BOX
8
30A
16
RD/LG
C234F
C234M
151-10 B1
BATTERY JUNCTION BOX
151-10 F9
12V (RUN/START)
PCM DIODE
16
RD/LG
S127
16
RD/LG
16
RD/LG
570
BK/WH
S140
0V
G101
HOT AT ALL TIMES
BATTERY JUNCTION BOX
9
30A
37
YE
S110
37
YE
361
RD
TO S142
DIA. 30-3 OR
DIA. 30-6
A
PCM POWER RELAY
85
86
87
87A
30
12V
12V (RUN/START)
Directs voltage to the torque converter clutch solenoid, electronic pressure control solenoid and shift solenoids.
HOT IN START OR RUN
CENTRAL JUNCTION BOX
20
5A
324
YE/LG
C201M
C201F
151-15 D1
324
YE/LG
C222M
C222F
12V (RUN)
The transmission control switch is a momentary contact switch that signals the PCM to allow automatic shifts from 1st through 4th or from 1st through 3rd gears. The Transmission Control Indicator Lamp (TCIL) indicates that 4th gear has been disengaged. May also flash if monitored sensors/actuators or circuits have failed.
OD OFF
TRANSMISSION CONTROL SWITCH/ INDICATOR LAMP
OVERDRIVE CANCEL SWITCH
151-12 E1
3
7
9
151-10 D10
224
TN/WH
911
WH/LG
C222F
C222M
C229F
C229M
224
TN/WH
911
WH/LG
29
12
*28
C154
SOLID STATE
POWERTRAIN CONTROL MODULE (PCM)
*6.8L
Uses information from various sensor/actuators to determine powertrain (engine/transmission) operations.

Diagram 30-1

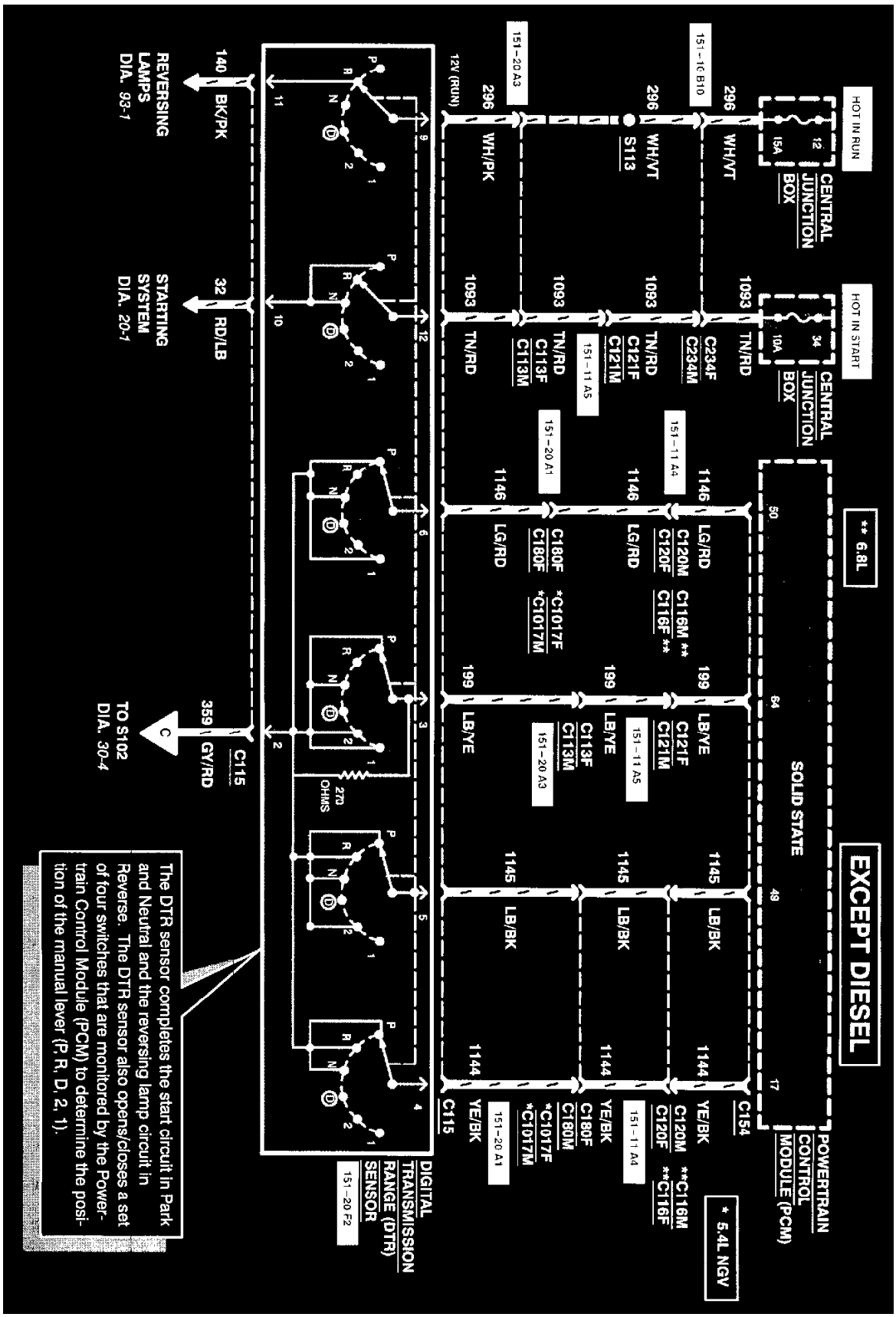

HOT IN RUN
HOT IN START
** 6.8L
EXCEPT DIESEL
CENTRAL JUNCTION BOX
12
15A
34
10A
SOLID STATE
POWERTRAIN CONTROL MODULE (PCM)
50
64
49
17
* 5.4L NGV
151-1C B10
151-20 A3
151-11 A5
151-11 A4
151-20 A1
151-20 F2
296 WH/VT
296 WH/PK
1093 TN/RD
1093 TN/RD
1093 TN/RD
S113
C234F
C234M
C121F
C121M
C113F
C113M
1146 LG/RD
1146 LG/RD
LG/RD
C120M
C120F
C116M **
C116F **
C180F
C180M
*C1017F
*C1017M
199 LB/YE
199 LB/YE
LB/YE
C121F
C121M
C113F
C113M
1145 LB/BK
1145 LB/BK
LB/BK
1144 YE/BK
1144 YE/BK
YE/BK
C154
C115
12V (RUN)
140 BK/PK
32 RD/LB
359 GY/RD
C115
REVERSING LAMPS DIA. 93-1
STARTING SYSTEM DIA. 20-1
TO S102 DIA. 30-4
270 OHMS
DIGITAL TRANSMISSION RANGE (DTR) SENSOR
P
R
N
D
2
1
9
12
11
10
6
3
5
4
2
1
The DTR sensor completes the start circuit in Park and Neutral and the reversing lamp circuit in Reverse. The DTR sensor also opens/closes a set of four switches that are monitored by the Powertrain Control Module (PCM) to determine the position of the manual lever (P, R, D, 2, 1).

Diagram 30-2

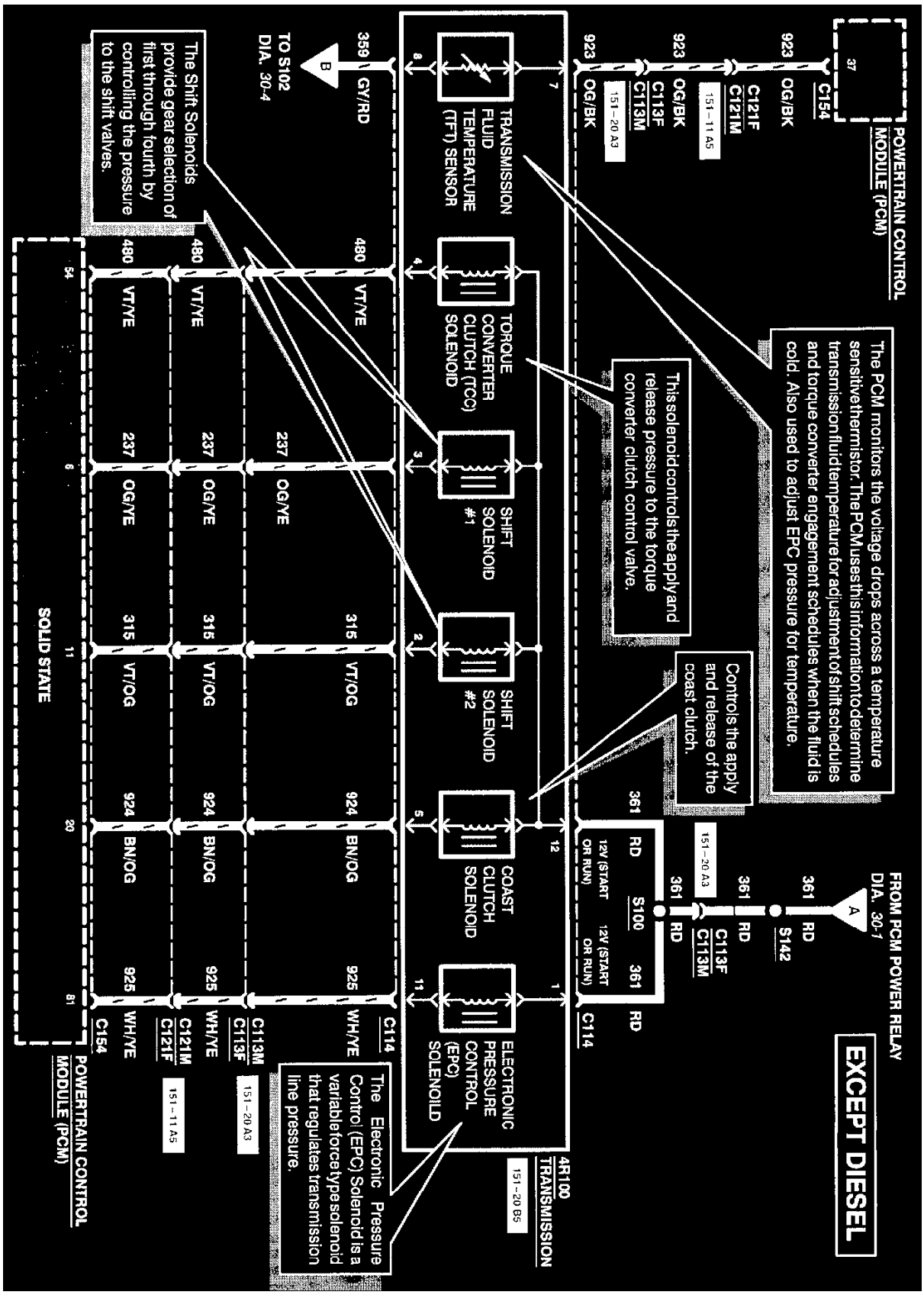

POWERTRAIN CONTROL MODULE (PCM)
37
C154
923 OG/BK
C121F
C121M
151 – 11 A5
923 OG/BK
C113F
C113M
151 – 20 A3
923 OG/BK
The PCM monitors the voltage drops across a temperature sensitive thermistor. The PCM uses this information to determine transmission fluid temperature for adjustment of shift schedules and torque converter engagement schedules when the fluid is cold. Also used to adjust EPC pressure for temperature.
This solenoid controls the apply and release pressure to the torque converter clutch control valve.
Controls the apply and release of the coast clutch.
FROM PCM POWER RELAY DIA. 30-1
EXCEPT DIESEL
361 RD
S142
361 RD
C113F
C113M
361 RD
S100
361 RD
12V (START OR RUN)
12V (START OR RUN)
C114
4R100 TRANSMISSION
151 – 20 B5
TRANSMISSION FLUID TEMPERATURE (TFT) SENSOR
TORQUE CONVERTER CLUTCH (TCC) SOLENOID
SHIFT SOLENOID #1
SHIFT SOLENOID #2
COAST CLUTCH SOLENOID
ELECTRONIC PRESSURE CONTROL (EPC) SOLENOID
359 GY/RD
TO S102 DIA. 30-4
480 VT/YE
237 OG/YE
315 VT/OG
924 BN/OG
925 WH/YE
C114
C113M
C113F
151 – 20 A3
C121M
C121F
151 – 11 A5
C154
POWERTRAIN CONTROL MODULE (PCM)
The Shift Solenoids provide gear selection of first through fourth by controlling the pressure to the shift valves.
The Electronic Pressure Control (EPC) Solenoid is a variable force type solenoid that regulates transmission line pressure.
SOLID STATE

Diagram 30-3

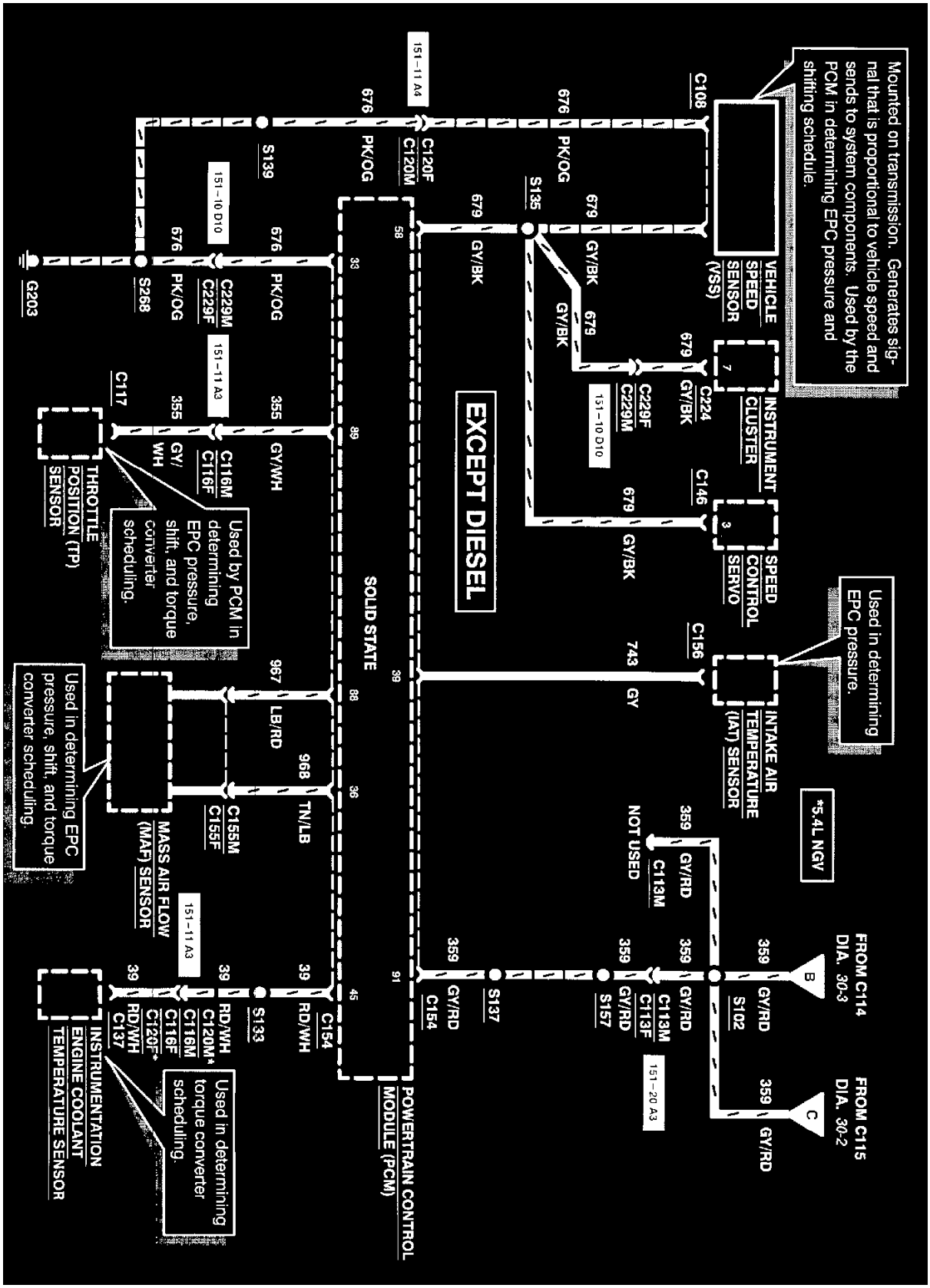

Mounted on transmission. Generates signal that is proportional to vehicle speed and sends to system components. Used by the PCM in determining EPC pressure and shifting schedule.
VEHICLE SPEED SENSOR (VSS)
C108
676
PK/OG
679
GY/BK
S135
151-11 A4
C120F
C120M
58
679
GY/BK
EXCEPT DIESEL
INSTRUMENT CLUSTER
7
C224
GY/BK
C229F
C229M
151-10 D10
SPEED CONTROL SERVO
3
C146
Used in determining EPC pressure.
INTAKE AIR TEMPERATURE (IAT) SENSOR
C156
743
GY
*5.4L NGV
359
GY/RD
NOT USED
C113M
C113F
151-20 A3
FROM C114 DIA. 30-3
B
S102
FROM C115 DIA. 30-2
C
S137
C154
91
45
POWERTRAIN CONTROL MODULE (PCM)
SOLID STATE
39
88
36
967
LB/RD
968
TN/LB
C155M
C155F
MASS AIR FLOW (MAF) SENSOR
151-11 A3
RD/WH
C120M*
C116M
C116F
C120F*
C137
S133
INSTRUMENTATION
ENGINE COOLANT TEMPERATURE SENSOR
Used in determining torque converter scheduling.
Used in determining EPC pressure, shift, and torque converter scheduling.
S139
151-10 D10
C229M
C229F
151-11 A3
C117
THROTTLE POSITION (TP) SENSOR
Used by PCM in determining EPC pressure, shift, and torque converter scheduling.
S268
G203
PK/OG
355
GY/WH
GY/WH
33
89

Diagram 30-4

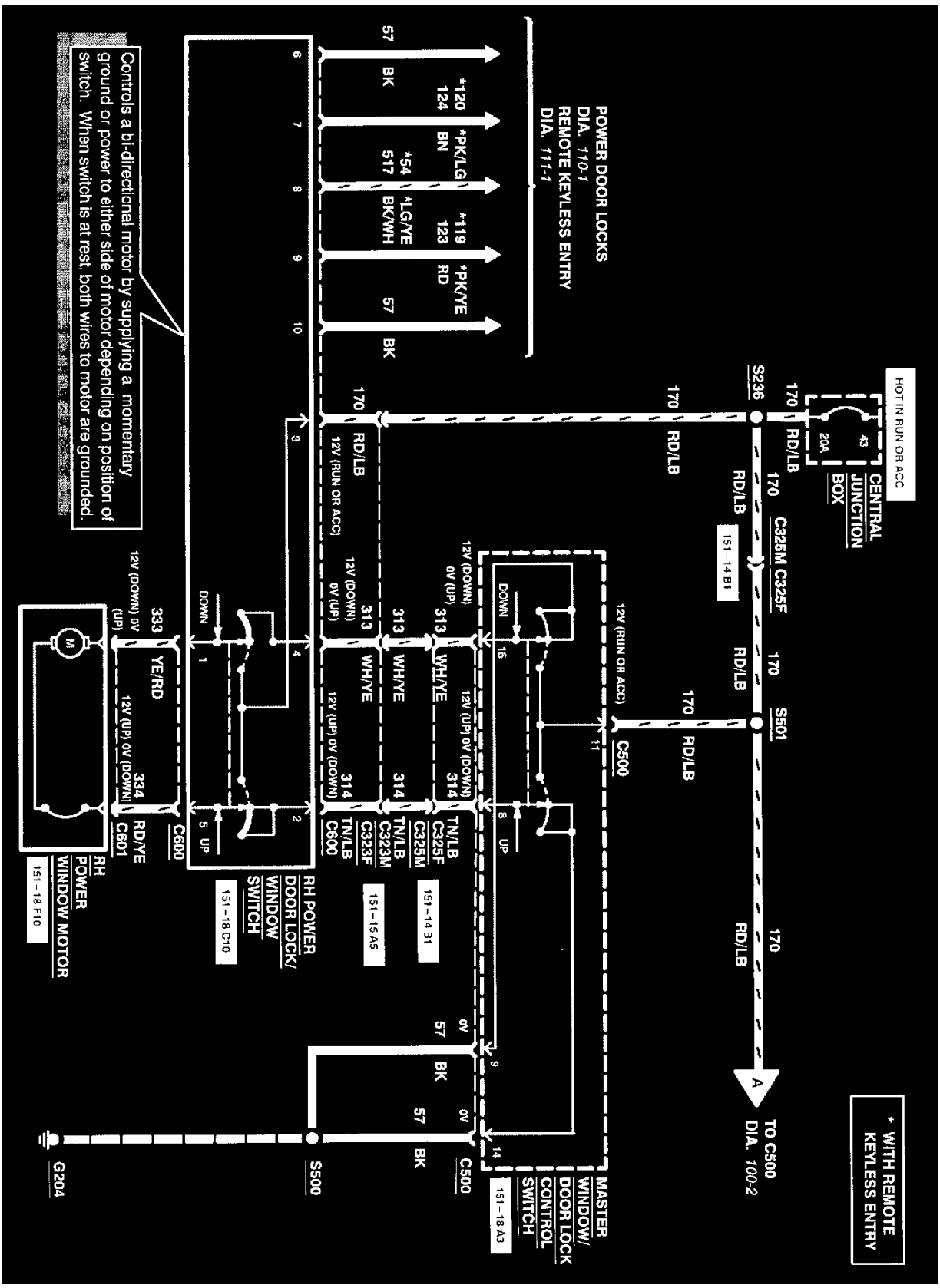


Diagram 100-1

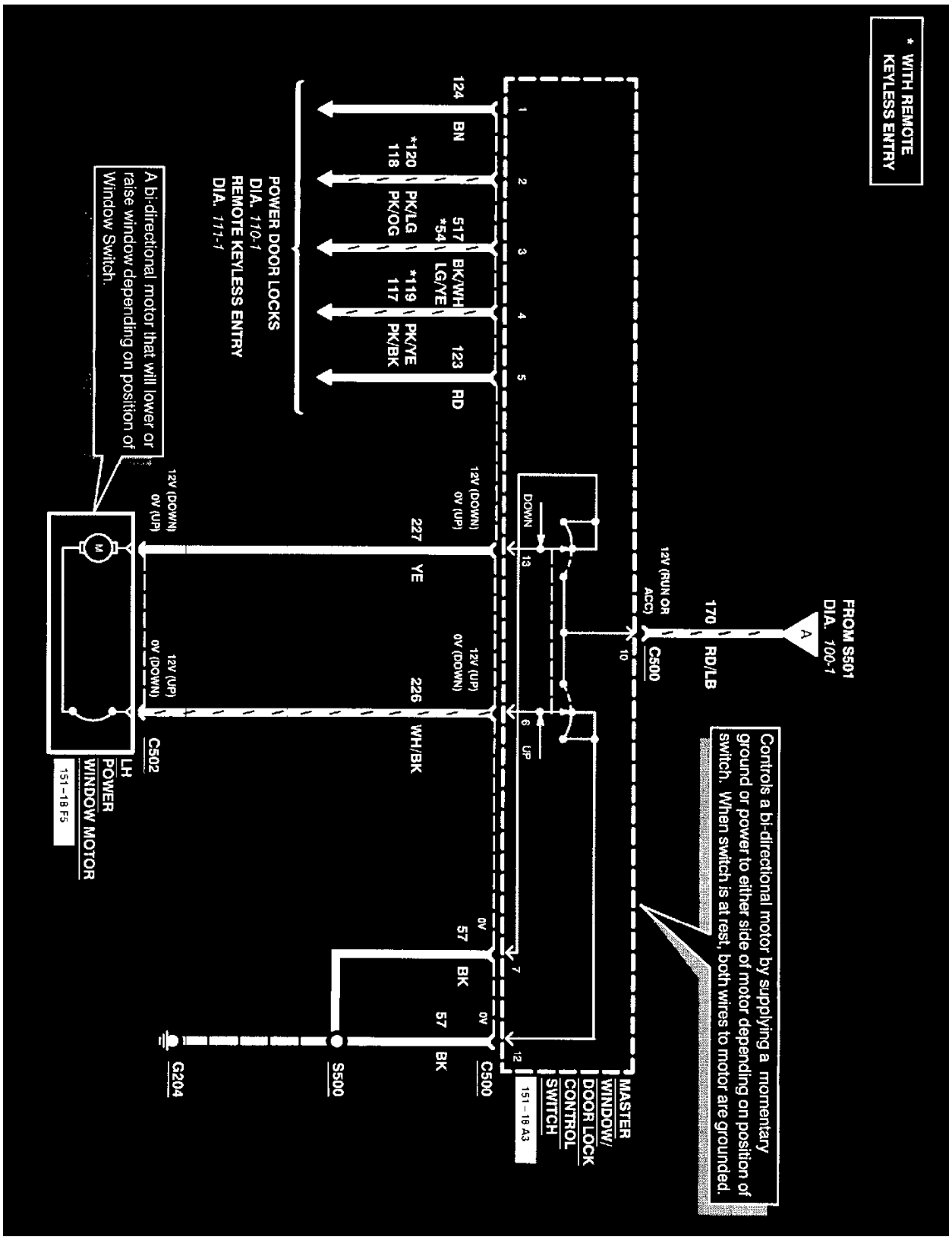


Diagram 100-2

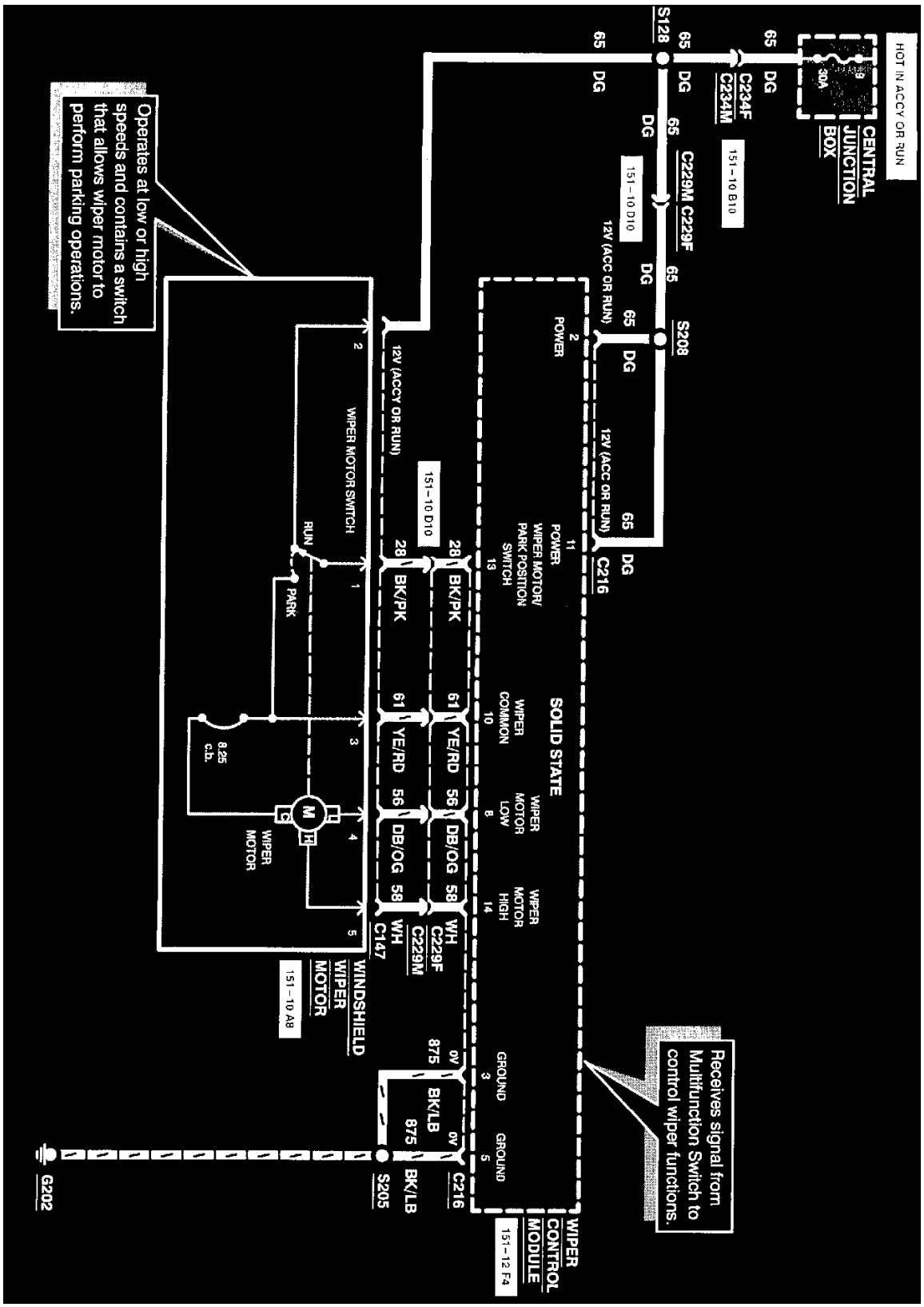

HOT IN ACCY OR RUN
CENTRAL JUNCTION BOX
30A
C234F
C234M
151-10 B10
C229M
C229F
S128
S208
151-10 D10
12V (ACC OR RUN)
C216
POWER
WIPER MOTOR/ PARK POSITION SWITCH
SOLID STATE
WIPER COMMON
WIPER MOTOR LOW
WIPER MOTOR HIGH
GROUND
WIPER CONTROL MODULE
151-12 F4
Receives signal from Multifunction Switch to control wiper functions.
Operates at low or high speeds and contains a switch that allows wiper motor to perform parking operations.
WIPER MOTOR SWITCH
RUN
PARK
8.25 c.b.
WIPER MOTOR
WINDSHIELD WIPER MOTOR
151-10 A8
S205
G202
BK/PK
YE/RD
DB/OG
WH
BK/LB
DG
65
875
0V

Diagram 81-1

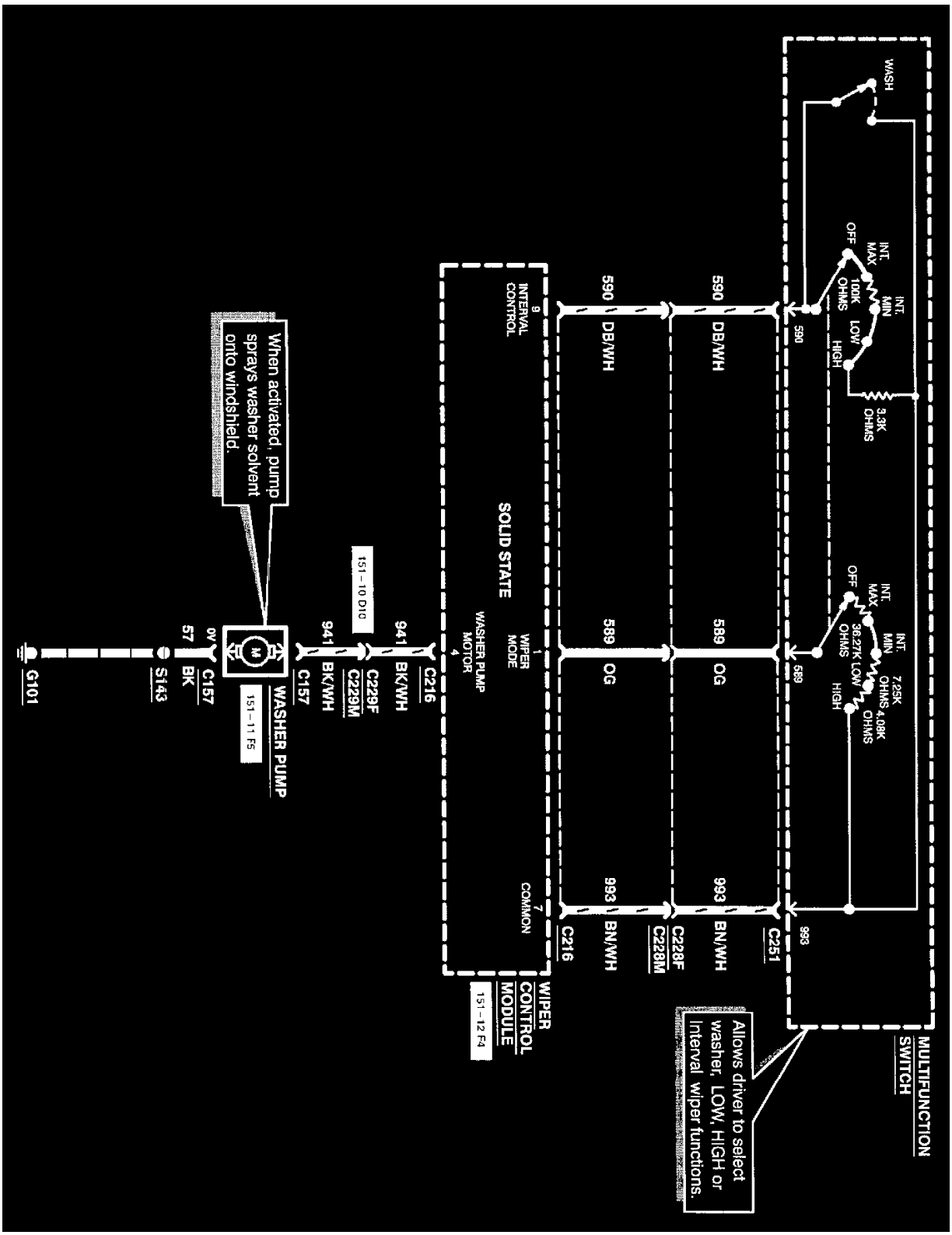
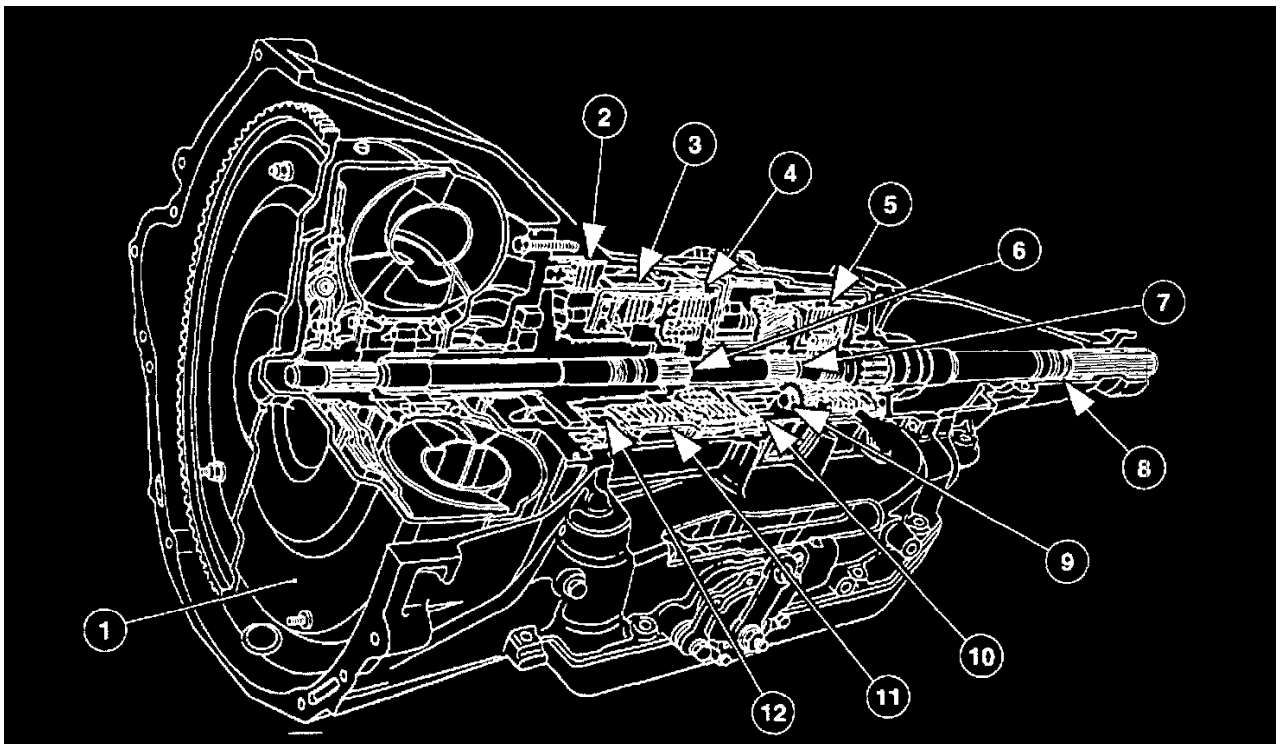

MULTIFUNCTION SWITCH
WASH
INT. MAX
INT. MIN
OFF
100K OHMS
LOW
HIGH
3.3K OHMS
7.25K OHMS
4.08K OHMS
36.27K OHMS
590
589
993
C251
DB/WH
DB/WH
OG
OG
BN/WH
BN/WH
C228F
C228M
C216
9 INTERVAL CONTROL
1 WIPER MODE
7 COMMON
SOLID STATE
WIPER CONTROL MODULE
151-12 F4
WASHER PUMP MOTOR
4
941
BK/WH
C216
C229F
C229M
151-10 D10
941
BK/WH
C157
WASHER PUMP
151-11 F5
0V
57
C157
BK
S143
G101
Allows driver to select washer, LOW, HIGH or Interval wiper functions.
When activated, pump sprays washer solvent onto windshield.

Diagram 81-2

CONDITION	POSSIBLE CAUSE	ACTION
• Wipers do not operate. (All switch positions)	• No power or ground to Wiper Control Module (WCM).	• With Ignition Switch in RUN, check for battery voltage between pin 2 and pin 3 or 5 of the Wiper Control Module, and between circuit 65 and 875 of the Wiper Control Module. Service for open fuse or circuits if voltage is not present.
	• Open circuits between wiper motor and WCM. • Open circuit between WCM and Multifunction switch. • Damaged Multifunction switch. • Damaged wiper motor or linkage. • Damaged WCM.	• With WCM connected, ignition in RUN, and Multifunction Switch turned to HIGH, check for battery voltage between circuits 61 and 58 of the wiper motor connector. • If voltage is present, check for damaged wiper motor or linkage. • If no voltage present: a) With multifunction switch at HIGH, Check resistance between circuit 993 and 589 at the WCM connector. If resistance is greater than five ohms, service for open circuit or damaged Multifunction Switch. b) Check continuity of circuits 61 and 56. If OK, replace WCM.
• LOW speed inoperative. (HIGH speed OK)	• Open circuits between wiper motor and WCM. • Damaged Multifunction switch. • Damaged wiper motor or WCM.	• Unplug Wiper Motor connector. With Ignition Switch in RUN and Multifunction Switch at LOW, check for battery voltage between circuits 61 and 56. • Voltage present: check for damaged wiper motor. • No voltage: a) With multifunction switch at LOW, check that resistance between circuits 993 & 589 is 3.5K-4.5K ohms. If resistance is out of range, check for damage, check for damaged multifunction switch, If switch is OK, go to b. b) Check continuity of circuit 56 between WCM and wiper motor. If OK, replace WCM.
• INT inoperative. (LOW and HIGH speed OK)	• Open interval control circuit. • Damaged Multifunction switch. • Damaged WCM.	• Disconnect WCM and check that resistance between circuits 993 and 589 is 10.5K-12K ohms. • Resistance OK: a) Measure resistance between circuits 590 and 993 while rotating INT control from MIN to MAX. If observed resistance is less than 104K ohms, replace WCM. If resistance is greater than 104K ohms, check for open circuits or damaged Multifunction Switch. • Resistance not OK: check for damaged Multifunction Switch, or open circuits 993/589.

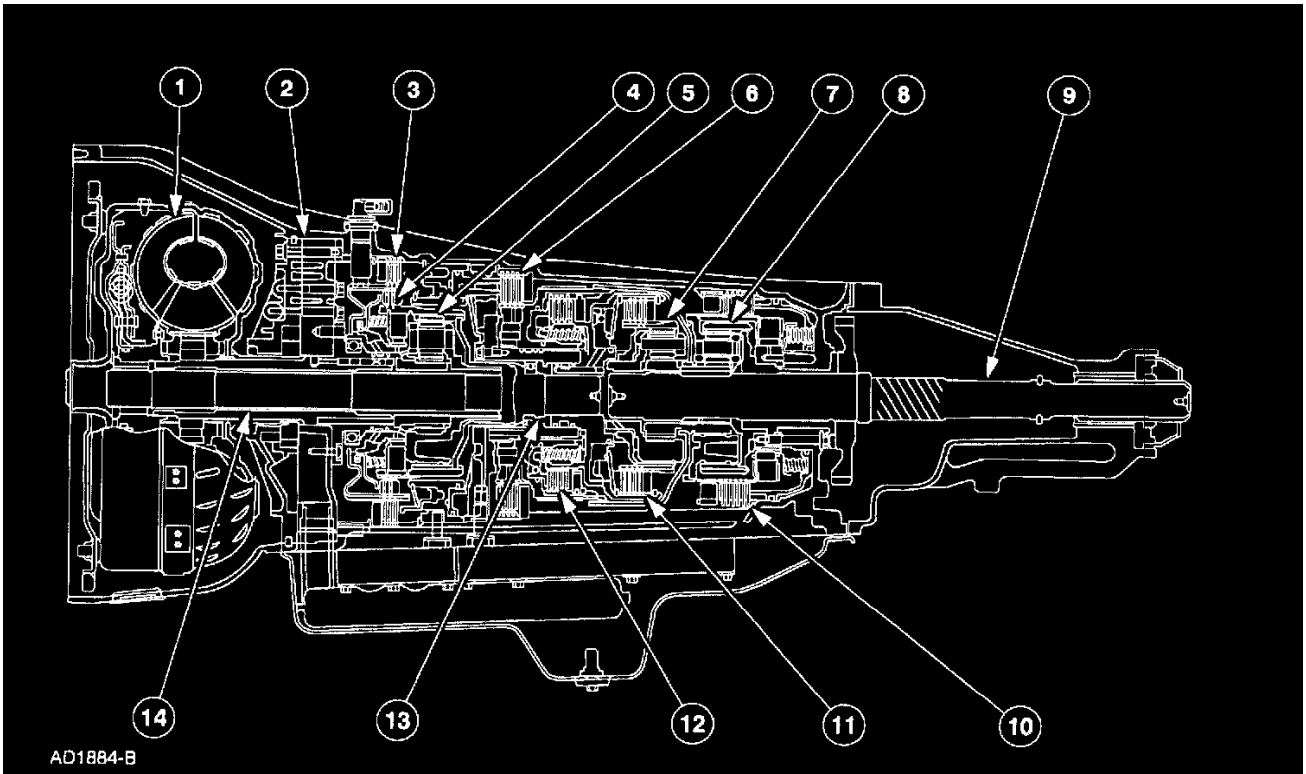
CONDITION	POSSIBLE CAUSE	ACTION
• Wipers will not turn off.	• Unseated connectors or open circuits. • Damaged wiper motor or WCM. • Damaged Multifunction switch.	• Check that wiper motor and WCM connectors are not unseated. If OK, disconnect wiper motor connector. With ignition in RUN and Multifunction switch at OFF, check continuity between circuits 28 and 56 and between circuits 61 and 875. • If continuity is OK, check for damaged wiper motor. • If no continuity: a) Check continuity of above circuits between wiper motor and WCM connector. Check for open in circuit 875. b) With Multifunction switch at OFF, measure resistance between circuits 589 and 993. If resistance is between 45K to 50K ohms, replace WCM. If resistance is out of range, check for open circuits between WCM and Multifunction switch or for damaged switch.
• Wipers will not park.	• No power or ground at wiper motor. • Damaged wiper motor, wiper linkage or WCM. • Damaged Multifunction switch.	• Turn Ignition Switch to RUN and Multifunction switch to OFF; disconnect wiper motor connector. Check for battery voltage at circuit 65 and ground at circuits 28 and chassis ground at the motor connector. Service for open circuit if voltage and ground are not present. • Check continuity between circuits 28 and 56 as in case where wipers will not turn OFF. Service circuits, wiper motor, WCM, or Multifunction switch as required.
• Windshield washer not operative; wipers operate when washer switch is depressed. (Fluid Level OK)	• No power or ground at washer pump motor. • Damaged washer pump motor or Multifunction switch. • Damaged WCM	• With ignition in RUN, depress washer switch and check for battery voltage between circuits 941 and 57 of the washer pump motor. • If voltage is present check for damaged washer pump motor. • If no voltage: a) While pressing the washer switch, check for continuity between circuits 993 and 590. If resistance is greater than 5 ohms, service for open circuit or damaged Multifunction switch. b) Check continuity of circuit 941 between the washer pump and WCM. Also check ground connection to washer pump. If OK then replace WCM.

Trouble Shooting Hints



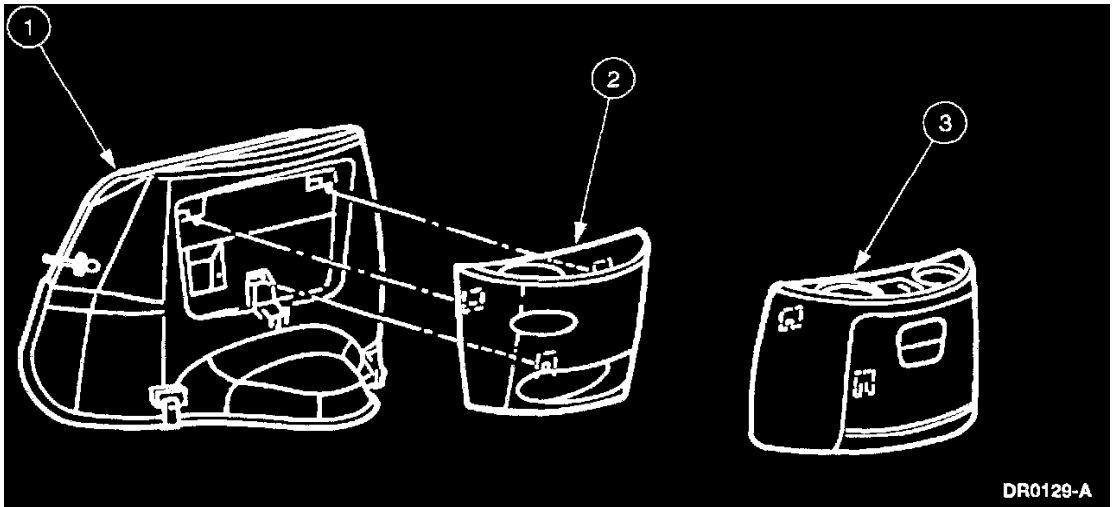
Item	Description
1	Torque Converter
2	Intermediate Clutch
3	Reverse Clutch
4	Forward Clutch
5	Direct Clutch
6	Forward Clutch Cylinder and Shaft

Item	Description
7	Shaft — Intermediate Stub
8	Output Shaft
9	Planetary One-Way Clutch
10	Reverse Clutch Band
11	Overdrive Band
12	Intermediate One-Way Clutch



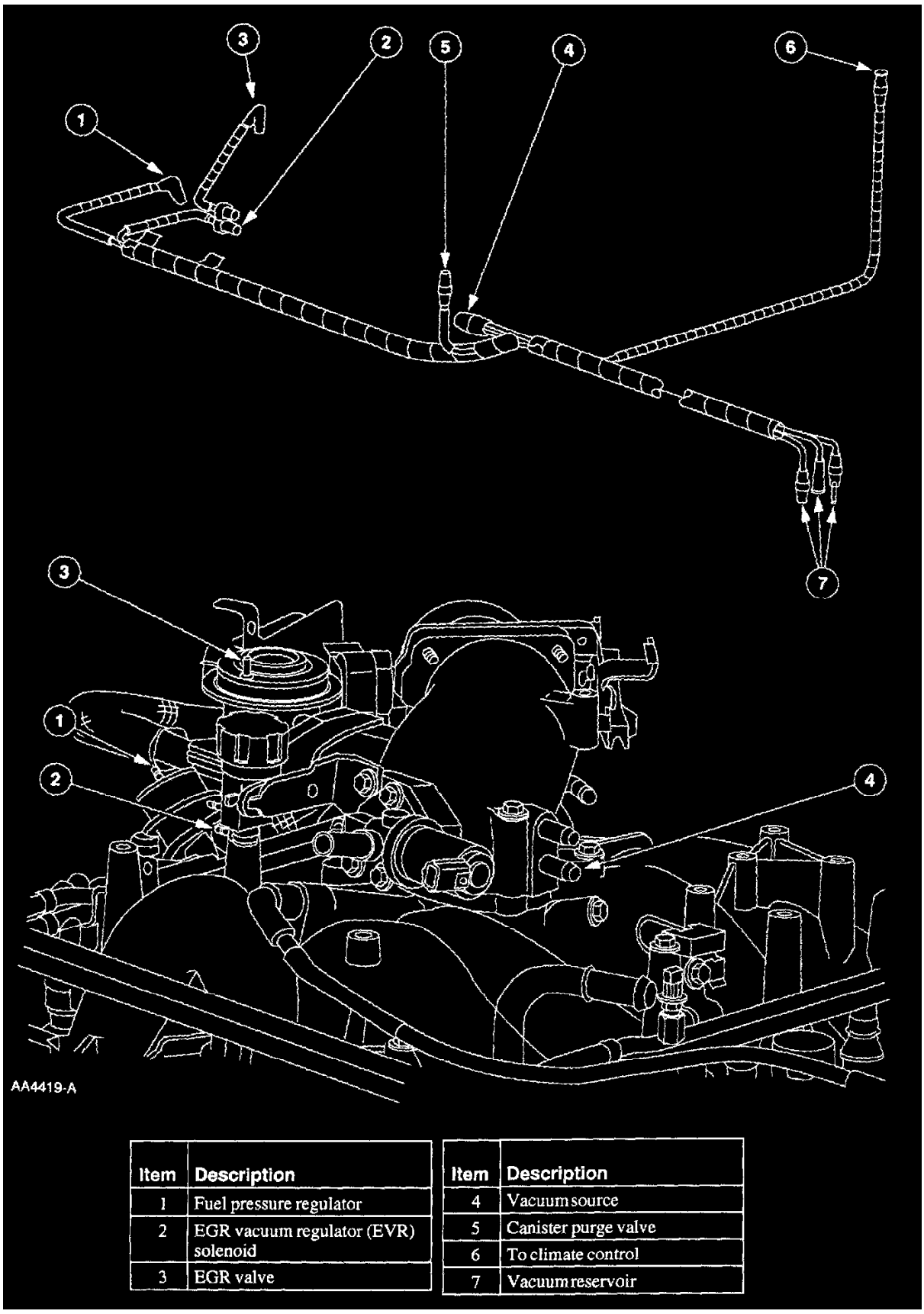
Item	Description
1	Torque Converter
2	Pump Assembly
3	Overdrive Clutch
4	Coast Clutch
5	Overdrive Planet Assy
6	Intermediate Clutch Assy
7	Forward Planet Assy

Item	Description
8	Reverse Planet Assy
9	Output Shaft Assy
10	Reverse Clutch
11	Forward Clutch Assy
12	Direct Clutch Assy
13	Center Shaft
14	Input Shaft



Item	Description
1	Engine Cover
2	Engine Cover Stowage Compartment

Item	Description
3	Engine Cover Console Assembly

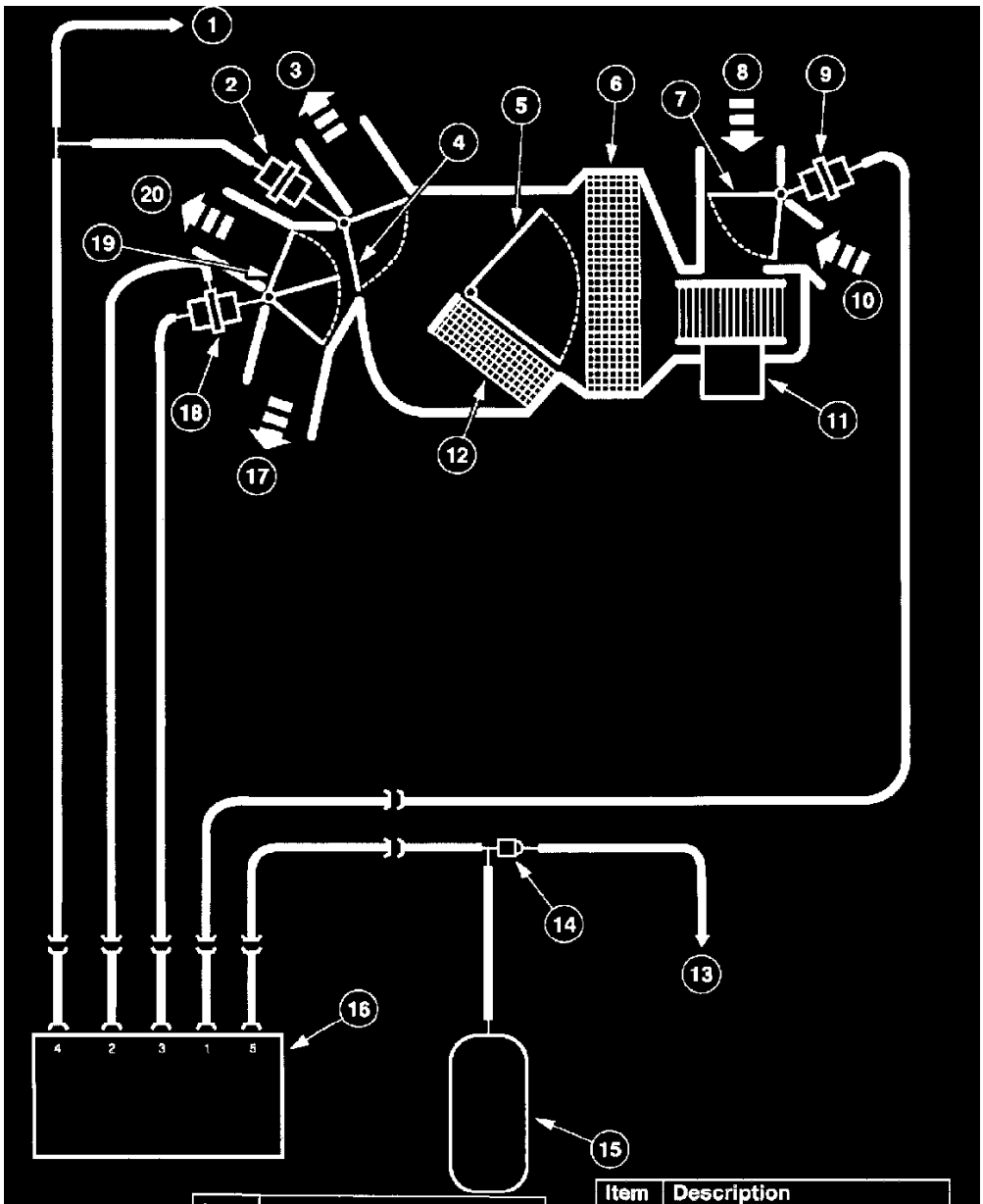


Item	Description
1	Fuel pressure regulator
2	EGR vacuum regulator (EVR) solenoid
3	EGR valve

Item	Description
4	Vacuum source
5	Canister purge valve
6	To climate control
7	Vacuum reservoir

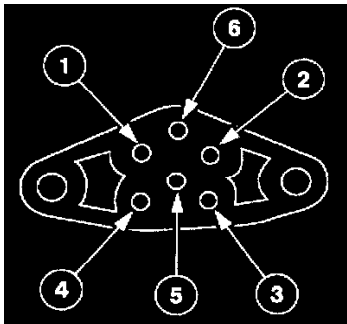
Emission System Vacuum Harness

Heating and Air Conditioning



Item	Description
1	Vacuum to the Auxiliary A/C System (if equipped)
2	Vacuum Control Motor—, Floor/Panel Door
3	Panel Vent Air Flow
4	Floor/Panel Door (Full Vacuum Position) (Part of 18471)
5	Temperature Blend Door (Full Heat Position)
6	A/C Evaporator Core
7	Air Inlet Duct Door (Full Vacuum Position)
8	Outside Air Inlet
9	Vacuum Control Motor—, Air Inlet Duct Door
10	Recirculated Air Inlet

Item	Description
11	A/C Blower Motor
12	Heater Core
13	Vacuum from the Engine Intake Manifold
14	A/C Vacuum Check Valve
15	A/C Vacuum Reservoir Tank and Bracket
16	A/C-Heater Function Selector Switch
17	Floor Air Flow
18	Vacuum Control Motor—, Floor/Defrost Door
19	Floor/Defrost Door (Full Vacuum Position) (Part of 18471)
20	Defrost Air Flow



Port	Hose Color	Function
1	White	Air Inlet Duct Door
2	Red	Floor/Defrost Door
3	Yellow	Floor/Defrost Door
4	Blue	Floor/Panel Door
5	Black	Vacuum Source
6	—	Not Used

Vacuum Connector End View

Switch Port	Color	Function	Function Selector Switch Position						
			MAX A/C	NORM A/C	VENT	OFF	FLOOR	MIX	DEF
1	White	Recirc/Fresh	V	NV	NV	V	NV	NV	NV
2	Red	Floor/Defrost	V	V	V	V	V	NV	NV
3	Yellow	Floor/Defrost	V	V	V	V	V	V	NV
4	Blue	Floor/Panel	V	V	V	NV	NV	NV	NV
5	Black	Vacuum Source	V	V	V	V	V	V	V

V = Vacuum

NV = No Vacuum

Components

Component	Base Part No.	Location	Connector View	Location View
4 Wheel Anti-Lock Brake System				
(4WABS) Module	★	On LH front frame rail	C144, C145	151- 10- F7
4 Wheel Anti-Lock Brake System				
(4WABS) Relay	★	Behind center of I/P, on 4 wheel anti-lock brakes (4WABS) relay	C232	151- 12- F5
4R100 Transmission	7000	RH side of transmission	C114	151- 20- B5
4R70W Transmission	7000	RH side of transmission	C110	151- 20-B10
A/C Clutch Cycling Pressure Switch	19E561	RH front of engine compartment	C161	151- 10- D1
A/C Clutch Relay	14B192	LH front of engine compartment in battery junction box	★	151- 10- E9
A/C Compressor Clutch (4.2L)	19C630	Left front of engine	C143	151- 2- D1
A/C Compressor Clutch (4.6L)	19C630	Lower right front of engine	C143	151- 4- D1
A/C Compressor Clutch (5.4L)	19C630	Lower right front of engine	C143	151- 6- E1
A/C Compressor Clutch (6.8L)	19C630	Lower right front of engine	C143	151- 8- E1
A/C Compressor Clutch (7.3L)	19C630	Top LH front of engine	C167	★
A/C Compressor Clutch Diode	★	In T/O to A/C compressor clutch	★	★
A/C Illumination Lamp	★	Center of I/P, on A/C illumination lamp	C205	151- 13- A9
A/C Pressure Cutout Switch	★	Right front of engine compartment	C159	151- 11- F4
ABS Data Link Connector (DLC)	★	Below LH side of I/P	C242	151- 14- F8
Accelerator Pedal (APP) Position Sensor	★	Behind LH side I/P, above accelerator pedal	C246	151- 14- A6
Air Bag Bracket	★	Behind RH side of I/P, near passenger air bag	C210	151- 12-B10
Air Bag Sliding Contatct	13906	Top of steering column, on air bag sliding contact	C220, C223	151- 12- F3
Auxiliary A/C-Heater Blower Switch (with A/C)	19980	Center of I/P, above radio	C230	151- 12- A4
Auxiliary Battery	★	RH side of vehicle on frame rail	★	151-22-B1
Auxiliary Battery Relay	14088	Right front of engine compartment, near battery	★	★
Auxiliary Blower Motor	19805	Left rear corner of vehicle, above wheelwell	C406	151- 17- B1

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Auxiliary Blower Motor Relay	*	Left rear corner of vehicle, above wheelwell	C403	151- 17- A3
Auxiliary Blower Resistor	19A706	Left rear corner of vehicle, above wheelwell	C405	151- 17- A2
Auxiliary Heater Blower Switch (Without A/C)	*	Center of I/P, above radio	C230	151- 12- A4
Auxiliary High Blower Motor Relay	*	Left rear corner of vehicle, above wheelwell	C404	151- 17- A4
Auxiliary Powertrain Control Connector	*	Behind LH side of I/P	C249	*
Barometric Pressure (BARO) Sensor	18A318	Below LH side of I/P	C248	151- 14- A4
Battery Junction Box	*	LH front of engine compartment	*	151 -10- E9
Blend Door Actuator	*	Behind center of I/P, on A/C-heater plenum	C237	151- 14-A10
Blower Motor	18A318	RH side of engine compartment	C160	151- 10- C1
Blower Motor Relay	14B192	LH front of engine compartment, in battery junction box	*	151- 10- E9
Blower Motor Resistor	19A706	RH rear of engine compartment, near blower motor	C158	151- 11- A1
Brake Air Pressure Regulator Valve	*	Left side of engine compartment, near master cylinder	C153	151- 10-E10
Brake Pedal Position (BPP) Switch	13480	Behind LH side of I/P on brake pedal bracket	C238	151- 14- F4
Brake Warning Diode	*	Main harness, near T/O to C225	*	
Button Contact	*	Attached to rear of right "B" pillar	C309	151- 16-F10
Camshaft Position (CMP) Sensor (4.2L)	*	Front center of engine	C1022	151- 2- B1
Camshaft Position (CMP) Sensor (4.6L)	*	Front of left cylinder head	C139	151- 4- F1
Camshaft Position (CMP) Sensor (5.4L)	*	Front of left cylinder head	C139	151- 6- D1
Camshaft Position (CMP) Sensor (6.8L)	*	Left front of engine	C139	151- 8- D1
Camshaft Position (CMP) Sensor (7.3L)	*	Front center of engine	C1010	151- 1- F5
Camshaft Position (CMP) Sensor Shield	*	In wiring harness, between camshaft position (CMP) sensor and PCM	*	*
Cargo Lamp	13788	Attached to rear headliner	C900	*
Center Air Bag Sensor	*	Front center of engine compartment, behind grille	C191	151- 10- F6

* No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Central Junction Box	★	Below left side of I/P, near left kick panel	★	151- 14- A3
Cigar Lighter	15052	Center of I/P, on cigar lighter	C218, C257	151- 13- F6
Coil On Plug (COP) #1 (5.4L)	★	Right bank of engine, above #1 cylinder	C184	151- 7-C10
Coil On Plug (COP) #1 (6.8L)	★	Right bank of engine, above #1 cylinder	C184	151- 9- A9
Coil On Plug (COP) #2 (5.4L)	★	Right bank of engine, above #2 cylinder	C183	151- 7-D10
Coil On Plug (COP) #2 (6.8L)	★	Right bank of engine, above #2 cylinder	C183	151- 9- A8
Coil On Plug (COP) #3 (5.4L)	★	Right bank of engine, above #3 cylinder	C182	151- 7-E10
Coil On Plug (COP) #3 (6.8L)	★	Right bank of engine, above #3 cylinder	C182	151- 9- A7
Coil On Plug (COP) #4 (5.4L)	★	Right bank of engine, above #4 cylinder	C181	151- 7-E10
Coil On Plug (COP) #4 (6.8L)	★	Right bank of engine, above #4 cylinder	C181	151- 9- A6
Coil On Plug (COP) #5 (5.4L)	★	Left bank of engine, above #5 cylinder	C176	151- 6- F8
Coil On Plug (COP) #5 (6.8L)	★	Right bank of engine, above #5 cylinder	C176	151- 9- A5
Coil On Plug (COP) #6 (5.4L)	★	Left bank of engine, above #6 cylinder	C177	151- 6-E10
Coil On Plug (COP) #6 (6.8L)	★	Left bank of engine, above #6 cylinder	C177	151- 8- C1
Coil On Plug (COP) #7 (5.4L)	★	Left bank of engine, above #7 cylinder	C178	151- 6- A9
Coil On Plug (COP) #7 (6.8L)	★	Left bank of engine, above #7 cylinder	C178	151- 8- A5
Coil On Plug (COP) #8 (5.4L)	★	Left bank of engine, above #8 cylinder	C179	151- 6-A10
Coil On Plug (COP) #8 (6.8L)	★	Left bank of engine, above #8 cylinder	C179	151- 8- A8
Coil On Plug (COP) #9 (6.8L)	★	Left bank of engine, above #9 cylinder	C187	151- 8- A9
Coil On Plug (COP) #10 (6.8L)	★	Left bank of engine, above #10 cylinder	C185	151- 8-A10
Crankshaft Position (CKP) Sensor (4.2L)	★	Lower right front of engine	C141	151- 2- E1
Crankshaft Position (CKP) Sensor (4.6L)	★	Lower right front of engine	C141	151- 4- F3
Crankshaft Position (CKP) Sensor (5.4L)	★	Lower center front of engine	C141	151- 6- F3
Crankshaft Position (CKP) Sensor (6.8L)	★	Lower right front of engine	C141	151- 8- D1
Crankshaft Position (CKP) Sensor Shield	★	In wiring harness, between crankshaft position (CKP) sensor and PCM	★	★
Cylinder Head Temperature (CHT) Sensor (4.2L)	12A648	Left rear of engine, on heater outlet elbow	C142	151- 3- E1
Cylinder Head Temperature (CHT) Sensor (4.6L)	★	Top front of left cylinder head	C172	151- 4- F9

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Cylinder Head Temperature (CHT) Sensor (5.4L)	★	Top front of left cylinder head	C172	151- 6- C1
Cylinder Head Temperature (CHT) Sensor (6.8L)	★	Top front of left cylinder head	C172	151- 8- A3
Data Link Connector (DLC)	★	Below LH side of I/P	C241	151- 14- F6
Daytime Running Lamps (DRL) Module	★	RH front of engine, near horns	C193	151- 10- F5
Deactivator Switch	★	LH side of engine compartment, bottom of brake master cylinder	C151	151- 11- F7
Delta Pressure Feedback EGR (DPFE) Sensor (4.2L)	★	Top right front of engine, on DPFE sensor	C118	★
Delta Pressure Feedback EGR (DPFE) Sensor (4.6L)	★	Top left rear of engine	C118	151- 5- A2
Delta Pressure Feedback EGR (DPFE) Sensor (5.4L)	★	Top RH side of engine	C118	151- 6- A8
Delta Pressure Feedback EGR (DPFE) Sensor (6.8L)	★	Left rear top engine	C118	151- 8- A7
Digital Transmission Range (DTR) Sensor (4R100)	7F293	LH side of transmission	C115	151- 20- F2
Digital Transmission Range (DTR) Sensor (4R70W)	7F293	LH side of transmission	C115	151- 20- F2
Driveline Disconnect Switch	★	Behind LH side of I/P	C262	★
Driver Air Bag	★	Top of steering column	C255	★
Driver Safety Belt	★	Right side of driver seat	C341	151- 21- F3
Driver Seat Motor Assembly	★	Underside of driver seat	C338	151- 21- A5
Driver Seat Regulator Control Switch	14C715	On left side of driver seat	C337	151- 21-C10
Dual Brake Warning Switch	★	LH side of engine compartment, bottom of brake master cylinder	C149	151- 10-C10
EGR Solenoid (4.2L)	9J459	Above center of right valve cover	C125	151- 3- F9
EGR Solenoid (4.6L)	9J459	Above LH valve cover, on bracket	C125	151- 5- A3
EGR Solenoid (5.4L)	9J459	Above left rear of engine, on bracket	C125	151- 7- A3

★ No Figure Available

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Component	Base Part No.	Location	Connector View	Location View
EGR Solenoid (6.8L)	9J459	Top left rear of engine	C125	151- 9- A3
Electric Intake Manifold Runner Control	★	Rear of intake	C124	151- 3- B1
Electronic Brake	★	Below LH side of I/P	★	
Electronic Crash Sensor (ECS) Module	14B056	Below RH side of I/P, on air bag diagnostic monitor	C200	151- 12-C10
Electronic Flasher	13350	Behind LH side of I/P, on electronic flasher	C239	151- 14- F2
Engine Compartment Battery	★	RH front of engine compartment	★	
Engine Coolant Temperature (ECT) Sender	10884	Lower left front of engine	C1004	151- 1- F6
Engine Oil Pressure Switch (4.2L)	9278	Left front of engine, below A/C compressor	C138	151- 2- F3
Engine Oil Pressure Switch (4.6L)	9278	Lower left front of engine	C138	151- 4- F6
Engine Oil Pressure Switch (5.4L)	9278	Lower left front of engine	C138	151- 6- F5
Engine Oil Pressure Switch (6.8L)	9278	Lower left front of engine	C138	151- 8- F3
Engine Oil Pressure Switch (7.3L)	9278	Top right center of engine	C138	151- 1- E1
Engine Oil Temperature (EOT) Sensor	★	Center LH side of engine	C1007	151- 1- F8
EVAP Canister Purge Valve (4.2L)	★	Center rear of engine compartment	C126	151- 3- F4
EVAP Canister Purge Valve (4.6L)	★	Center rear of engine compartment	C126	151- 5- D1
EVAP Canister Purge Valve (5.4L)	★	Center rear of engine compartment	C126	151- 7- A5
EVAP Canister Purge Valve (6.8L)	★	Center rear of engine compartment	C126	151- 9- F6
Evaporative Emissions (EVAP) Canister Purge Valve	9C987	Under LH rear of vehicle	C416	151- 16- F6
Exhaust Back Pressure (EBP) Sensor	★	Top center of engine	C1008	151- 1- F3
Exhaust Pressure Regulator (EPR)	★	Top LH rear of engine	C1011	151- 1- A6
Exterior Rear View Mirror Switch (with Door Trim)	17B676	Center of driver door	C505	151- 18- F4
Exterior Rear View Mirror Switch (without Door Trim)	17B676	Center of driver door	C508	151- 18- F4
Forward Aft-Axle Fuel Tank Valve	★	Under rear of vehicle, near aft-axle fuel tank assembly	C353	151- 18- E1
Front Blower Switch	19A646	Center of I/P, above radio	C207	151- 13- A7

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Fuel Injector #1 (4.2L)	9F593	In intake manifold	C119	151- 3-C10
Fuel Injector #1 (4.6L)	9F593	In intake manifold	C119	151- 5-B10
Fuel Injector #1 (5.4L)	9F593	In intake manifold	C119	151- 7- A8
Fuel Injector #1 (6.8L)	9F593	In intake manifold	C119	151- 9-D10
Fuel Injector #1 (7.3L)	★	Near front of RH side of right valve cover	★	151- 1- C1
Fuel Injector #2 (4.2L)	9F593	In intake manifold	C122	151- 3-D10
Fuel Injector #2 (4.6L)	9F593	In intake manifold	C122	151- 5-C10
Fuel Injector #2 (5.4L)	9F593	In intake manifold	C122	151- 7- A7
Fuel Injector #2 (6.8L)	9F593	In intake manifold	C122	151- 9-E10
Fuel Injector #2 (7.3L)	★	Near front of LH side of left valve cover	★	151- 1-C10
Fuel Injector #3 (4.2L)	9F593	In intake manifold	C123	151- 3-D10
Fuel Injector #3 (4.6L)	9F593	In intake manifold	C123	151- 5-D10
Fuel Injector #3 (5.4L)	9F593	In intake manifold	C123	151- 7- A6
Fuel Injector #3 (6.8L)	9F593	In intake manifold	C123	151- 9- F9
Fuel Injector #3 (7.3L)	★	Near front of RH side of right valve cover	★	151- 1- C1
Fuel Injector #4 (4.2L)	9F593	In intake manifold	C136	151- 2- A8
Fuel Injector #4 (4.6L)	9F593	In intake manifold	C136	151- 5-E10
Fuel Injector #4 (5.4L)	9F593	In intake manifold	C136	151- 7- B1
Fuel Injector #4 (6.8L)	9F593	In intake manifold	C136	151- 9- F8
Fuel Injector #4 (7.3L)	★	Near front of LH side of left valve cover	★	151- 1-C10
Fuel Injector #5 (4.2L)	9F593	In intake manifold	C135	151- 2- A9
Fuel Injector #5 (4.6L)	9F593	In intake manifold	C135	151- 4-E10
Fuel Injector #5 (5.4L)	9F593	In intake manifold	C135	151- 6- F9
Fuel Injector #5 (6.8L)	9F593	In intake manifold	C135	151- 9- F7
Fuel Injector #5 (7.3L)	★	Near rear of RH side of right valve cover	★	151- 1- C1
Fuel Injector #6 (4.2L)	9F593	In intake manifold	C134	151- 2-A10
Fuel Injector #6 (4.6L)	9F593	In intake manifold	C134	151- 4-D10
Fuel Injector #6 (5.4L)	9F593	In intake manifold	C134	151- 6-D10
Fuel Injector #6 (6.8L)	9F593	In intake manifold	C134	151- 8- F8
Fuel Injector #6 (7.3L)	★	Near rear of LH side of left valve cover	★	151- 1-C10

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Fuel Injector #7 (4.6L)	9F593	In intake manifold	C170	151- 4-C10
Fuel Injector #7 (5.4L)	9F593	In intake manifold	C170	151- 6-C10
Fuel Injector #7 (6.8L)	9F593	In intake manifold	C170	151- 8-E10
Fuel Injector #7 (7.3L)	★	Near rear of RH side of right valve cover	★	151- 1- C1
Fuel Injector #8 (4.6L)	9F593	In intake manifold	C171	151- 4-B10
Fuel Injector #8 (5.4L)	9F593	In intake manifold	C171	151- 6-B10
Fuel Injector #8 (6.8L)	9F593	In intake manifold	C171	151- 8-D10
Fuel Injector #8 (7.3L)	★	Near rear of LH side of left valve cover	★	151- 1-C10
Fuel Injector #9	9F593	In intake manifold	C186	151- 8-C10
Fuel Injector #10	9F593	In intake manifold	C188	151- 8-B10
Fuel Injector Shield	★	Left front side of engine compartment, near injector driver module	★	★
Fuel Injectors/Glow Plugs (#1, #3)	★	Near front of RH side of right valve cover	C1000	151- 1- C1
Fuel Injectors/Glow Plugs (#5, #7)	★	Near rear of RH side of right valve cover	C1001	151- 1- A1
Fuel Injectors/Glow Plugs (#2, #4)	★	Near front of LH side of left valve cover	C1002	151- 1-D10
Fuel Injectors/Glow Plugs (#6, #8)	★	Near rear of LH side of left valve cover	C1003	151- 1-B10
Fuel Line Heater	9J294	Top center of engine	C1018	151- 1- A5
Fuel Pump	★	LH rear of engine compartment	C111	★
Fuel Pump Module	9H307	Below vehicle, in fuel tank	C347	151- 16- F4
Fuel Pump Relay	14B192	LH front of engine compartment, in battery junction box	★	151- 10- E9
Fuel Rail Cutoff Valve	9D278	Right bank of engine, on fuel rail	C1014	151- 7-E10
Fuel Rail Temperature Sensor	9F951	Right bank of engine, on fuel rail	C1015	151- 7-A10
Fuel Tank Pressure Sensor	★	Under LH center of vehicle	C349	151- 18- F5
Fuel Tank Pressure Transducer (FTPT)	★	Under center rear of vehicle, near fuel tank	C305	151- 16- F3
Fuel Tank Sender	★	Under LH center of vehicle	C352	151- 18- F6
Fuel Tank Temperature Sensor	★	Under LH center of vehicle	C351	151- 18- F7
Function Selector Switch	18519	Center of I/P	C204	151- 12-A10
Fuse Link A	★	At starter motor relay	★	★
Fuse Link B	★	At starter motor relay	★	★

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Fuse Link C	★	At starter motor relay	★	★
Fuse Link D	★	At starter motor relay	★	★
Fuse Link E	★	At starter motor relay	★	★
Fuse Link F	★	At starter motor relay	★	★
Fuse Link G	★	At starter motor relay	★	★
Generator	★	Top RH side of engine	C198	151- 22- A7
Generator	★	Top RH side of engine	C199	151- 22- A7
Generator (Primary)	★	Top RH side of engine	C1020	151- 23- A4
Generator (Secondary)	★	RH side of engine, below (primary) generator	C1198	151- 23- F3
Glow Plug #1	★	Near front of RH side of right valve cover	★	151- 1- C1
Glow Plug #2	★	Near front of LH side of left valve cover	★	151- 1-C10
Glow Plug #3	★	Near front of RH side of right valve cover	★	151- 1- C1
Glow Plug #4	★	Near front of LH side of left valve cover	★	151- 1-C10
Glow Plug #5	★	Near rear of RH side of right valve cover	★	151- 1- C1
Glow Plug #6	★	Near rear of LH side of left valve cover	★	151- 1-C10
Glow Plug #7	★	Near rear of RH side of right valve cover	★	151- 1- C1
Glow Plug #8	★	Near rear of LH side of left valve cover	★	151- 1-C10
Glow Plug Relay	12B533	Top RH side of engine	★	151- 1- B1
Interior Lamp	★	In front headliner	C902	151- 18- A7
Interior/Map Switch and Lamp	13788	In front headliner	C903	151- 16- A7
Interior Switch/Lamp	13788	Middle of rear headliner	C904	151- 18- A7
Heated Oxygen Sensor (HO2S) #11 (4.2L)	9F472	Lower right rear of engine	C127	151- 3- F6
Heated Oxygen Sensor (HO2S) #11 (4.6L)	9F472	Lower right rear of engine	C127	151- 5- F7
Heated Oxygen Sensor (HO2S) #11 (5.4L)	9F472	Lower right rear of engine	C127	151- 7- F7
Heated Oxygen Sensor (HO2S) #11 (6.8L)	9F472	Right rear of engine	C127	151- 9- F4

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Heated Oxygen Sensor (HO2S) #12 (4.2L, 4.6L)	9F472	Beneath center of vehicle, on right side of transmission	C106	151- 20-D10
Heated Oxygen Sensor (HO2S) #21 (4.2L)	★	Left rear of engine	C128	151- 3- D1
Heated Oxygen Sensor (HO2S) #21 (4.6L)	★	Lower left rear of engine	C128	151- 5- B1
Heated Oxygen Sensor (HO2S) #21 (5.4L)	★	Lower left rear of engine	C128	151- 7- E1
Heated Oxygen Sensor (HO2S) #21 (6.8L)	★	Left rear of engine	C128	151- 9- D1
Heated Oxygen Sensor (HO2S) #22 (4.2L, 4.6L)	9F472	Beneath center of vehicle, near left rear of transmission	C107	151- 20- F7
Heated Oxygen Sensor (HO2S) #22 (5.4L, 6.8L)	9F472	Beneath center of vehicle	C105	151- 16- F7
High Mounted Stoplamp	13A613	Top rear of vehicle	C411	151- 16- B1
High Pitch Horn	13801	Lower right front of engine compartment, behind grille	C192	151- 10- F4
Horn Relay	14B192	Left front of engine compartment, in battery junction box	★	151- 10- E9
Horn Switch	★	Center of steering wheel	★	★
IDM Relay	★	LH front of engine compartment, in engine compartment fuse box		151- 10- E9
Idle Air Control (IAC) Valve (4.2L)	12B526	RH side of engine, near ignition coil	C129	151- 3- A5
Idle Air Control (IAC) Valve (4.6L)	12B526	Rear of engine, near intake	C129	151- 5- A4
Idle Air Control (IAC) Valve (5.4L)	12B526	Top center rear of engine, near air intake	C129	151- 7- A1
Idle Air Control (IAC) Valve (6.8L)	12B526	Top center rear of engine, near air intake	C129	151- 9- A4
Idle Validation Switch	★	Below LH side of I/P	C247	151- 14- F5
Ignition Coil (4.2L)	12029	Left front of engine	C130	151- 3- A4
Ignition Coil (4.6L)	12029	Left front of engine	C175	151- 4- E1
Ignition Coil (4.6L)	12029	Right front of engine	C169	151- 4- B1

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Ignition Switch	11572	Lower RH side of steering column	C240	151- 14- F3
Illuminated Entry Module	13C718	Behind LH side of I/P	C215	151- 12- F6
In-Transit Fuel Pump Module	9C407	Below vehicle, along LH frame rail	C344	★
Inertia Fuel Shutoff (IFS) Switch	★	Behind RH kick panel	C236	151- 15- B1
Injection Control Pressure (ICP) Sensor	★	Top of engine	C1009	151- 1- F7
Injection Pressure Regulator (IPR)	★	Center top of engine	C1006	151- 1- A4
Injection Pressure Sensor (IPS)	9F972	Right bank of engine, on fuel rail	C1016	151- 7- A9
Injector Driver Module (IDM)	★	Left front side of engine compartment	C1157	151- 11-D10
Inlet Air Control Sensor (4.6L)	★	LH front of engine	C173	151- 4- F8
Inlet Air Control Sensor (5.4L)	★	LH front of engine	C173	151- 6- A5
Instrument Cluster	10K843	Behind LH side of I/P	C224	151- 13- A3
Instrument Cluster	10K843	Behind LH side of I/P	C225	151- 13- A3
Instrument Cluster	10K843	Behind LH side of I/P	C226	151- 13- A3
Instrumentation Engine Coolant Temperature Sensor (4.2L)	10884	RH rear of engine, near fuel injector #6	C137	151- 2- A7
Instrumentation Engine Coolant Temperature Sensor (4.6L)	10884	Top front center of engine	C137	151- 4- A4
Instrumentation Engine Coolant Temperature Sensor (5.4L)	10884	Top LH side of engine, on lower intake manifold	C137	151- 6- A4
Instrumentation Engine Coolant Temperature Sensor (6.8L)	10884	Upper left front of engine	C137	151- 8- A2
Instrumentation Engine Coolant Temperature Sensor (7.3L)	★	Upper left front of engine	C137	★
Intake Air Temperature (IAT) Sensor	12A697	Center of engine compartment, part of clean air tube	C156	151- 10- A6
Key Warning Switch	★	In steering column, near key cylinder	★	★
Knock Sensor (KS) (4.2L)	12A699	Right rear side of engine	C140	151- 3- F7
Knock Sensor (KS) (4.6L)	12A699	Top right rear side of engine	C140	151- 5- F9
Knock Sensor (KS) (5.4L)	12A699	Top right rear of engine	C140	★

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Knock Sensor (KS) (6.8L)	12A699	Top right rear side of engine	C140	151- 9- C1
Knock Sensor (KS) Shield	★	In wiring harness, between knock sensor and PCM	★	★
Left Courtesy Lamp Switch	13A786	Mounted in LH door jamb	C328	151- 14- E1
Left Exterior Rear View Mirror	17683	Front of left front door	C507	151- 18- A8
Left Front Door Lock Actuator	218A40	Rear of left front door	C501	151- 18- A1
Left Front Door Speaker	18808	Top right corner of LH door	C504	151- 18- A4
Left Front Park/Turn Lamp	13200	LH front of vehicle	C190	151- 11-E10
Left Front Wheel Sensor	★	Behind LH front wheel	C102	151- 16- A9
Left Stop/Park/Turn Lamp	13405	LH rear of vehicle	C410	151- 17- C1
LH Aero Headlamp	★	LH front of vehicle	C189	151- 11- F8
LH Door Handle Switch	13752	Top left corner of LH door	C506	151- 18- A2
LH Headlamp	13306	LH front of vehicle	C196	151- 10- F8
LH Mid Speaker	18971	Behind LH "B" pillar	C332	151- 16- A1
LH Power Window Motor	14529	Lower center of left front door	C502	151- 18- F8
LH Rear Speaker	18971	Mounted on LH rear door panel	C413	151- 19-B10
LH Reversing Lamp	13405	LH rear of vehicle	C409	151- 17- E1
LH Visor Lamp	17A679	LH side of front headliner	C921	151- 16- A6
License Lamp	13550	In right rear door	C408	151- 19- F3
Low Pitch Horn	13801	Lower right front of engine compartment, behind grille	C192	151- 10- F4
Low Vacuum Warning Switch	12A182	Left front of engine compartment	C164	151- 11-C10
Main Light Switch	11654	LH side of I/P	C227	151- 12- C1
Manifold Absolute Pressure (MAP) Sensor	9F479	Right side of engine compartment	C1155	★
Manifold Intake Air Heater Relay	12B533	Top of engine	★	★
Mass Air Flow (MAF) Sensor (4.2L)	12B579	Center of engine compartment	C1029	151- 10- A5
Mass Air Flow (MAF) Sensor (Except 4.2L)	12B579	Center of engine compartment	C155	151- 10- A5
Master Window/Door Lock Control Switch	★	Mounted on LH door panel	C500	151- 18- A3
Memory Lock Module	14A093	Behind LH "B" pillar	C330	151- 17- F6

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Midship Fuel Tank Valve	★	Under LH center of vehicle, near midship fuel tank	C348	151- 18- C1
Modified Vehicle Power	★	Left rear corner of engine compartment	C148	★
Modified Vehicle Power	★	Behind LH side of I/P	C233	★
Modified Vehicle Power	★	At base of LH "B" pillar	C331	★
Multifunction Switch	13K359	Top side of steering column	C250	151- 13- C1
Multifunction Switch	13K359	Top side of steering column	C251	151- 13- C1
NGV Module	★	LH side inner fender of engine compartment	C1012	151- 11-A10
NGV Timer	★	LH rear of engine compartment near PCM	C1013	151- 11- A6
Output Shaft Speed (OSS) Sensor	7H103	Under vehicle, on left side of transmission	C109	151- 20- A9
Overdrive Cancel Switch	★	RH side of steering column	C222	151- 12- E1
Parking Brake Switch	15A851	Near LH kick panel	C243	151- 14- A2
Passenger Air Bag	★	Behind RH side of I/P	C209	151- 12-C10
Passenger Safety Belt	★	On left side of front passenger seat	C342	★
PCM Power Relay	14B192	LH front of engine compartment, in battery junction box	★	151- 10- E9
Power Plug	★	Behind center I/P, near cigar lighter	C219	151- 13- F5
Powertrain Control Module (PCM) (4.2L)	12A650	Left rear of engine compartment, near brake master cylinder	C154	151- 11- A9
Powertrain Control Module (PCM) (4.6L)	12A650	Left rear of engine compartment, near brake master cylinder	C154	151- 11- A9
Powertrain Control Module (PCM) (5.4L)	12A650	Left rear of engine compartment, near brake master cylinder	C154	151- 11- A9
Powertrain Control Module (PCM) (5.4L NGV)	12A650	Left rear of engine compartment, near brake master cylinder	C154	151- 11- A9

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Powertrain Control Module (PCM)				
(6.8L)	12A650	Left rear of engine compartment, near brake master cylinder	C154	151- 11- A9
Powertrain Control Module (PCM)				
(7.3L)	12A650	Left rear of engine compartment, near brake master cylinder	C154	151- 11- A9
RABS Diagnostic Connector	★	Below RH side of I/P	C208	151- 13- F7
Radio	19B131	Center of I/P	C212, C213	151- 12- F9
Radio	19B131	Center of I/P	C231	151- 12- F9
Radio Capacitor #1 (4.2L)	18827	Top side of engine, attached to ignition coil	C131	151- 3- A3
Radio Capacitor #1 (4.6L)	18827	Right front of engine, attached to ignition coil	C131	151- 4- C1
Radio Capacitor #1 (5.4L)	18827	Upper left rear of engine	C131	151- 7- C1
Radio Capacitor #1 (6.8L)	★	Upper left rear of engine	C131	151- 9- A2
Radio Capacitor #2 (4.6L)	18827	LH side of engine, attached to ignition coil	C174	151- 4- F5
Radio Capacitor #2 (5.4L)	★	Right rear of engine	C174	151- 7- F8
Radio Capacitor #2 (6.8L)	★	Upper RH rear of engine	C174	151- 9- F5
Rear Aft-Axle Fuel Tank Valve	★	Under rear of vehicle, near aft-axle fuel tank assembly	C354	151- 18- E1
Rear Anti-Lock Brake System (RABS) Module	★	Behind center side of I/P	C217	151- 13- A5
Rear Auxiliary Blower Switch	19A642	Middle of rear headliner	C916	151- 17- A5
Rear Axle Speed Sensor	★	Below rear of vehicle, mounted on differential	C415	151- 16- F5
Rear Courtesy Lamp Switch	13A786	In RH rear door jamb	C414	151- 17- F3
Rear Door Lock Actuator	★	Left center of right rear door	C423	151- 19- F6
Rear Interior/Map Switch and Lamp	13788	In rear of rear headliner	C901	151- 16- B1
Rear Power Door Lock Switch	★	Left center of right rear door	C425	151- 19- B1
Remote Keyless Entry Module	19A379	Behind LH "B" pillar	C335, C336	151- 16- C1
RH Aero Headlamp	★	RH front of vehicle	C195	151- 10- F3
RH Door Handle Switch	★	Top rear of right front door	C605	151- 18-D10
RH Headlamp	★	RH front of vehicle	C197	151- 11- F3

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
RH Power Door Lock/Window Switch	★	Center of right front door	C600	151- 18-C10
RH Power Window Motor	23394	Lower center of right front door	C601	151- 18- F9
RH Rear Speaker	18971	Mounted in RH rear door	C421	151- 19- B1
RH Reversing Lamp	134404	RH rear of vehicle	C400	151- 17- F4
RH Side Door Speaker	18971	Front center of side door	C311	151- 16- F9
RH Visor Lamp	★	RH side of front headliner	C922	151- 16- A8
Right Courtesy Lamp Switch	13A786	In RH door jamb	C327	151- 15-D10
Right Exterior Rear View Mirror	17683	Front of right front door	C606	151- 18-A10
Right Front Door Lock Actuator	218A40	Top rear of right front door	C602	151- 18-E10
Right Front Door Speaker	18971	In front center of right front door	C604	151- 18-B10
Right Front Park/Turn Lamp	13200	RH front of vehicle	C194	151- 10- F2
Right Front Wheel Sensor	★	Near right front wheel	C103	151- 16-C10
Right Stop/Park/Turn Lamp	13404	RH rear of vehicle	C401	151- 17- F5
RKE Data Link Connector (DLC)	★	Behind LH side of I/P	C245	151- 14- A5
Shift Lock Actuator	★	Below RH side of steering column	C221	151- 13- F3
Side Door Courtesy Lamp Switch	13A786	Behind RH "B" pillar in door jamb	C308	151- 16-E10
Side Door Courtesy Lamp Switch	13A786	Behind RH "B" pillar in door jamb	C312	151- 17-E10
Side Door Lock Actuator	★	Mounted in side door	C315	151- 16-D10
Speed Control Servo	9A825	LH side of engine compartment, near brake master cylinder	C146	151- 11-B10
Speed Control Switch Assembly	★	Top of steering column	C253	★
Starter	★	Lower RH side of engine	★	151- 1- D1
Starter Motor Relay	11450	RH front corner of engine compartment, near battery	★	★
Temperature Control Switch	★	Center of I/P	C206	151- 13-A10
Throttle Position (TP) Sensor (4.2L)	9B989	Top of engine, near air intake	C117	151- 2- A4
Throttle Position (TP) Sensor (4.6L)	9B989	Top of engine, near air intake	C117	151- 4- A5
Throttle Position (TP) Sensor (5.4L)	9B989	Top of engine, near air intake	C117	151- 6- A7
Throttle Position (TP) Sensor (6.8L)	9B989	Top of engine, near air intake	C117	151- 8- A6
Trailer Battery Charge Relay	14A301	LH front of engine compartment, in battery junction box	★	151- 10- E9

★ No Figure Available

Component	Base Part No.	Location	Connector View	Location View
Trailer/Camper Adapter (Class II)	*	Below LH side of rear bumper	C419	151- 16- F2
Trailer/Camper Adapter (Class I)	*	Below LH side of rear bumper	C422	151- 18- F3
Trailer Reversing Lamp Relay	14A301	LH front of engine compartment, in battery junction box	*	151- 10- E9
Trailer Running Lamp Relay	14A301	LH front of engine compartment, in battery junction box	*	151- 10- E9
Turbine Shaft Speed (TSS) Sensor	*	Under vehicle, on right side of transmisssion	C1021	*
Vacuum Check Valve	*	NA	*	*
Vehicle Speed Sensor (VSS)	*	Under vehicle, on left side of transmission	C108	151- 20- C6
Warning Buzzer Module	10B924	Behind center of I/P	C214	151- 12- F7
Washer Pump	17664	Attached to washer fluid reservoir on RH fender apron	C157	151- 11- F5
Water In Fuel Sensor	*	Top left center of engine	C1998	151- 1- A7
Windshield Wiper Motor	17A511	LH rear of engine compartment, mounted on top of cowl	C147	151- 10- A8
Wiper Control Module	17A553	Behind center side of I/P	C216	151- 12- F4

Connectors

Connector	Location	Location View	Connector View	Color	Terminal
C100	LH rear of engine compartment, below engine access cover	151- 16-A10	150—1	BK	42
C101	Beneath left front of vehicle, near left front wheel sensor	151- 16- A5		GY	4
C102	Inside left front wheelwell, to left front wheel sensor	151- 16- A9		BK	2
C103	Inside right front wheelwell, to right front wheel sensor	151- 16-C10		BK	2
C104	Beneath left center of vehicle, near transmission	151- 16- F8		BU	4
C105 (5.4L)	Beneath center of vehicle, to heated oxygen sensor (HO2S) #22	151- 16- F7			4
C105 (6.8L)	Beneath center of vehicle, to heated oxygen sensor (HO2S) #22	151- 16- F7			4
C106 (4.2L)	Beneath center of vehicle, to heated oxygen sensor (HO2S) #12	151- 20-D10		BU	4
C106 (4.6L)	Beneath center of vehicle, to heated oxygen sensor (HO2S) #12	151- 20-D10			4
C107 (4.2L)	Beneath center of vehicle, to heated oxygen sensor (HO2S) #22	151- 20- F7		BU	4
C107 (4.6L)	Beneath center of vehicle, to heated oxygen sensor (HO2S) #22	151- 20- F7			4

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C108	Left side of transmission, on vehicle speed sensor	151- 20- C6		BK	2
C109	Left side of transmission, on output shaft speed (OSS) sensor	151- 20- A9	29—6	BK	2
C110	Under right center of vehicle, on 4R70W transmission	151- 20-B10	29—5	WH	10
C111	LH frame rail below engine access cover	★			4
C112	Top right side of transmission	151- 20- A8	150—3	BK	16
C113 (4R100)	Top right side of transmission	151- 20- A3	150—4	GY	16
C113 (4R70W)	Top left side of transmission	151- 20- A7	150—4	GY	16
C114	Under right center of vehicle, on 4R100 transmission	151- 20- B5	30—8	GY	12
C115 (4R100)	Left side of transmission, on digital transmission range sensor	151- 20- F2	30—8	BK	12
C115 (4R70W)	Left side of transmission, on digital transmission range sensor	151- 20- F2	29—5	BK	12
C116	Near intake air temperature (IAT) sensor	151- 11- A3	150-5	BK	42
C117 (4.2L)	Top of engine on throttle position sensor	151- 2- A4		BK	3
C117 (4.6L)	Top of engine on throttle position sensor	151- 4- A5			3
C117 (5.4L)	Top of engine on throttle position sensor	151- 6- A7			3
C117 (6.8L)	Top of engine on throttle position sensor	151- 8- A6			3
C118 (4.2L)	Top right front of engine, on DPFE sensor	★		BK	3
C118 (4.6L)	Top left rear of engine, on DPFE sensor	151- 5- A2			3
C118 (5.4L)	Top right of engine, on DPFE sensor	151- 6- A8			3
C118 (6.8L)	Left rear of engine, on DPFE sensor	151- 8- A7			3
C119 (4.2L)	Above right bank of engine, on fuel injector #1	151- 3-C10		GY	2
C119 (4.6L)	Above right bank of engine, on fuel injector #1	151- 5-B10			2
C119 (5.4L)	Above right bank of engine, on fuel injector #1	151- 7- A8			2
C119 (6.8L)	Above right bank of engine, on fuel injector #1	151- 9-D10			2
C120	Near A/C pressure cutout switch	151- 11- A4	150-7, 150-32	BK	16
C121	Near A/C pressure cutout switch	151- 11- A5	150-8	GY	16
C122 (4.2L)	Above right bank of engine, on fuel injector #2	151- 3-D10		GY	2
C122 (4.6L)	Above right bank of engine, on fuel injector #2	151- 5-C10			2
C122 (5.4L)	Above right bank of engine, on fuel injector #2	151- 7- A7			2
C122 (6.8L)	Above right bank of engine, on fuel injector #2	151- 9-E10		GY	2
C123 (4.2L)	Above right bank of engine, on fuel injector #3	151- 3-D10		GY	2
C123 (4.6L)	Above right bank of engine, on fuel injector #3	151- 5-D10			2

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C123 (5.4L)	Above right bank of engine, on fuel injector #3	151- 7- A6		GY	2
C123 (6.8L)	Above right bank of engine, on fuel injector #3	151- 9- F9		GY	2
C124	Right rear top of engine, on electric intake manifold runner control	151- 3- B1			4
C125 (4.2L)	Above right valve cover, on EGR solenoid	151- 3- F9		BK	2
C125 (4.6L)	Above left valve cover, on EGR solenoid	151- 5- A3		BK	2
C125 (5.4L)	Top left rear of engine, on EGR solenoid	151- 7- A3		BK	2
C125 (6.8L)	Top left rear of engine, on EGR solenoid	151- 9- A3		BK	2
C126 (4.2L)	Center rear of engine compartment, on EVAP canister purge valve	151- 3- F4		BK	2
C126 (4.6L)	Center rear of engine compartment, on EVAP canister purge valve	151- 5- D1		BK	2
C126 (5.4L)	Center rear of engine compartment, on EVAP canister purge valve	151- 7- A5		BK	2
C126 (6.8L)	Center rear of engine compartment, on EVAP canister purge valve	151- 9- F6		BK	2
C127 (4.2L)	Right rear of engine, to HO2S #11	151- 3- F6		GN	4
C127 (4.6L)	Right rear of engine, to HO2S #11	151- 5- F7			4
C127 (5.4L)	Right rear of engine, to HO2S #11	151- 7- F7			4
C127 (6.8L)	Right rear of engine, to HO2S #11	151- 9- F4		GN	4
C128 (4.2L)	Left rear of engine, to HO2S #21	151- 3- D1		GN	4
C128 (4.6L)	Left rear of engine, to HO2S #21	151- 5- B1			4
C128 (5.4L)	Left rear of engine, to HO2S #21	151- 7- E1			4
C128 (6.8L)	Left rear of engine, to HO2S #21	151- 9- D1		GN	4
C129 (4.2L)	Top center of engine, on IAC valve	151- 3- A5		BK	2
C129 (4.6L)	Rear of engine, on IAC valve	151- 4- A4		BK	2
C129 (5.4L)	Top center rear of engine, on IAC valve	151- 7- A1		BK	2
C129 (6.8L)	Top center rear of engine, on IAC valve	151- 9- A4		BK	2
C130	Left front of engine, on ignition coil	151- 3- A4		BK	4
C131 (4.2L)	Rear of ignition coil, on radio capacitor #1	151- 3- A3		GY	1
C131 (4.6L)	Near right front ignition coil, on radio capacitor #1	151- 4- C1		GY	1
C131 (5.4L)	Upper left rear of engine, on radio capacitor #1	151- 7- C1		GY	1
C131 (6.8L)	Upper left front of engine, on radio capacitor #1	151- 9- A2		GY	1
C134 (4.2L)	Above left bank of engine, on fuel injector #6	151- 2-A10		GY	2
C134 (4.6L)	Above left bank of engine, on fuel injector #6	151- 4-D10			2
C134 (5.4L)	Above left bank of engine, on fuel injector #6	151- 6-D10			2

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C134 (6.8L)	Above left bank of engine, on fuel injector #6	151- 8- F8		GY	2
C135 (4.2L)	Above left bank of engine, on fuel injector #5	151- 2- A9		GY	2
C135 (4.6L)	Above left bank of engine, on fuel injector #5	151- 4-E10			2
C135 (5.4L)	Above left bank of engine, on fuel injector #5	151- 6- F9			2
C135 (6.8L)	Above left bank of engine, on fuel injector #5	151- 9- F7		GY	2
C136 (4.2L)	Above left bank of engine, on fuel injector #4	151- 2- A8		GY	2
C136 (4.6L)	Above right bank of engine, on fuel injector #4	151- 5-E10			2
C136 (5.4L)	Above right bank of engine, on fuel injector #4	151- 7- B1			2
C136 (6.8L)	Above right bank of engine, on fuel injector #4	151- 9- F8		GY	2
C137 (4.2L)	On heater outlet elbow, on instrumentation engine coolant temperature sensor	151- 2- A7		BK	2
C137 (4.6L)	Top front of engine, on instrumentation engine coolant temperature sensor	151- 4- A4		BK	2
C137 (5.4L)	Top left front of engine, on instrumentation engine coolant temperature sensor	151- 6- A4		BK	2
C137 (6.8L)	Top left front of engine, on instrumentation engine coolant temperature sensor	151- 8- A2		BK	2
C137 (7.3L)	Top left front of engine, on instrumentation engine coolant temperature sensor	★		BK	2
C138 (4.2L)	Lower left front of engine, on engine oil pressure switch	151- 2- F3		BK	1
C138 (4.6L)	Lower left front of engine, on engine oil pressure switch	151- 4- F6		BK	1
C138 (5.4L)	Lower left front of engine, on engine oil pressure switch	151- 6- F5		BK	1
C138 (6.8L)	Lower left front of engine, on engine oil pressure switch	151- 8- F3		BK	1
C138 (7.3L)	Lower left front of engine, on engine oil pressure switch	151- 1- E1		BK	1
C139 (4.6L)	Front of left cylinder head, on camshaft position (CMP) sensor	151- 4- F4			2
C139 (5.4L)	Front of left cylinder head, on camshaft position (CMP) sensor	151- 6- D1			2
C139 (6.8L)	Left front of engine, on camshaft position (CMP) sensor	151- 8- D1			2
C140 (4.2L)	Right rear side of engine, on knock sensor (KS)	151- 3- F7		GN	2
C140 (4.6L)	Top right hand rear of engine, on knock sensor (KS)	151- 5- F9		BK	2
C140 (5.4L)	Top right rear of engine, on knock sensor (KS)	★		BK	2
C140 (6.8L)	Top right rear of engine, on knock sensor (KS)	151- 9- C1		BK	2

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C141 (4.2L)	Lower right front of engine, on crankshaft position (CKP) sensor	151- 2- E1		BK	2
C141 (4.6L)	Lower right front of engine, on crankshaft position (CKP) sensor	151- 4- F3			2
C141 (5.4L)	Lower center front of engine, on crankshaft position (CKP) sensor	151- 6- F3			2
C141 (6.8L)	Lower right front of engine, on crankshaft position (CKP) sensor	151- 8- D1		BK	2
C142 (4.2L)	Left rear of engine, on cylinder head temperature (CHT) sensor	151- 3- E1		GY	2
C143 (4.2L)	Left front of engine, on A/C compressor clutch	151- 2- D1		BK	2
C143 (4.6L)	Lower right front of engine, on A/C compressor clutch	151- 4- D1			2
C143 (5.4L)	Lower right front of engine, on A/C compressor clutch	151- 6- E1			2
C143 (6.8L)	Lower right front of engine, on A/C compressor clutch	151- 8- E1			2
C144	On 4 wheel anti-lock brakes (4 WABS) module, on left front frame rail	151- 10- F7	42–6	BK	24
C145	On 4 wheel anti-lock brakes (4 WABS) module on left front frame rail	151- 10- F7		BK	2
C146	LH side of engine compartment, on speed control servo	151- 11-B10	31–5	BK	10
C147	Left rear of engine compartment, on windshield wiper motor	151- 10- A8	81–5		5
C148	Left rear of engine compartment, on modified vehicle power	151- 10-A10		BK	4
C149	Left side of engine compartment, on dual brake warning switch	151- 10-C10		BK	3
C150	LH rear of engine compartment, above master cylinder	151- 10- A9		BK	2
C151	Left rear of engine compartment, on deactivator switch	151- 11- F7		BK	2
C153	Left side of engine compartment, on brake air pressure regulator valve	151- 10-E10		BK	4
C154 (4.2L)	Left rear of engine compartment, on powertrain control module (PCM)	151- 11- A9	24–12	GY	104
C154 (4.6L)	Left rear of engine compartment, on powertrain control module (PCM)	151- 11- A9	25–12	GY	104
C154 (5.4L)	Left rear of engine compartment, on powertrain control module (PCM)	151- 11- A9	26–10	GY	104

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C154 (5.4L NGV)	Left rear of engine compartment, on powertrain control module (PCM)	151- 11- A9	28–12	GY	104
C154 (6.8L)	Left rear of engine compartment, on powertrain control module (PCM)	151- 11- A9	27–10	GY	104
C154 (7.3L)	Left rear of engine compartment, on powertrain control module (PCM)	151- 11- A9	23–12	GY	104
C155	Center of engine compartment, on mass air flow (MAF) sensor	151- 10- A5		BK	4
C156	In clean air tube, on intake air temperature (IAT) sensor	151- 10- A6		BK	2
C157	Right hand front fender, on washer pump	151- 11- F5		BK	2
C158	Right rear of engine compartment, on blower motor resistor	151- 11- A1		WH	4
C159	Right front of engine compartment, on A/C pressure cutout switch	151- 11- F4		BK	4
C160	Right side of engine compartment, on blower motor	151- 10- C1		BK	2
C161	RH front of engine compartment, on A/C clutch cycling pressure switch	151- 10- D1		BN	4
C162	RH front of engine compartment, near blower motor resistor	151- 11- C1	150–8	GY	16
C163	RH rear of engine compartment, near cowl	151- 10- B1			4
C164	Left front of engine compartment, on low vacuum warning switch	151- 11-C10			3
C165	Top right side of transmission	151- 20- A4	150–9	GY	16
C166	Left rear of engine compartment, behind engine	151- 1- A8	150–10		42
C167 (7.3L)	Front of engine, on A/C compressor clutch	★			2
C168	Top left side of engine compartment, behind engine	151- 20- B1		BK	4
C169	Right front of engine, on ignition coil	151- 4- B1			3
C170 (4.6L)	Above left bank of engine, on fuel injector #7	151- 4-C10			2
C170 (5.4L)	Above left bank of engine, on fuel injector #7	151- 6-C10			2
C170 (6.8L)	Above left bank of engine, on fuel injector #7	151- 8-E10		GY	2
C171 (4.6L)	Above left bank of engine, on fuel injector #8	151- 4-B10			2
C171 (5.4L)	Above left bank of engine, on fuel injector #8	151- 6-B10			2
C171 (6.8L)	Above left bank of engine, on fuel injector #8	151- 8-D10		GY	2
C172 (4.6L)	Top front of left cylinder head, on cylinder head temperature (CHT) sensor	151- 4- F9		BK	4

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C172 (5.4L)	Top front of left cylinder head, on cylinder head temperature (CHT) sensor	151-	6- C1	BK	4
C172 (6.8L)	Top front of left cylinder head, on cylinder head temperature (CHT) sensor	151-	8- A3	BK	4
C173 (4.6L)	Left hand front of engine, on inlet air control sensor	151-	4- F8	BK	2
C173 (5.4L)	Left hand front of engine, on inlet air control sensor	151-	6- A5	BK	2
C174 (4.6L)	Near left front ignition coil, on radio capacitor #2	151-	4- F5	GY	1
C174 (5.4L)	Right rear of engine, on radio capacitor #2	151-	7- F8	GY	1
C174 (6.8L)	Upper right front of engine, on radio capacitor #2	151-	9- F5	GY	1
C175	Left front of engine, on ignition coil	151-	4- E1		3
C176 (5.4L)	Above left bank of engine, on COP #5	151-	6- F8		2
C176 (6.8L)	Above right bank of engine, on COP #5	151-	9- A5	BK	2
C177 (5.4L)	Above left bank of engine, on COP #6	151-	6-E10		2
C177 (6.8L)	Above left bank of engine, on COP #6	151-	8- C1	BK	2
C178 (5.4L)	Above left bank of engine, on COP #7	151-	6- A9		2
C178 (6.8L)	Above left bank of engine, on COP #7	151-	8- A5	BK	2
C179 (5.4L)	Above left bank of engine, on COP #8	151-	6-A10		2
C179 (6.8L)	Above left bank of engine, on COP #8	151-	8- A8	BK	2
C180	Top left side of transmission	151-	20- A1	GY	4
C181 (5.4L)	Above right bank of engine, on COP #4	151-	7-E10		2
C181 (6.8L)	Above right bank of engine, on COP #4	151-	9- A6	BK	2
C182 (5.4L)	Above right bank of engine, on COP #3	151-	7-E10		2
C182 (6.8L)	Above right bank of engine, on COP #3	151-	9- A7	BK	2
C183 (5.4L)	Above right bank of engine, on COP #2	151-	7-D10		2
C183 (6.8L)	Above right bank of engine, on COP #2	151-	9- A8	BK	2
C184 (5.4L)	Above right bank of engine, on COP #1	151-	7-C10		2
C184 (6.8L)	Above right bank of engine, on COP #1	151-	9- A9	BK	2
C185	Left bank of engine, on COP #2	151-	8-A10	BK	2
C186	Left side of intake manifold, on fuel injector #9	151-	8-C10	GY	2
C187	Above left bank of engine, on coil on plug #9	151-	8- A9	BK	2
C188	Left side of intake manifold, on fuel injector #10	151-	8-B10	GY	2

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C189	Left hand front of vehicle, on left hand aero headlamp	151- 11- F8		BK	3
C190	On left front park/turn lamp	151- 11-E10		BK	3
C191	Front center of engine compartment, on center air bag sensor	151- 10- F6		BK	2
C192	Behind right side of grille, on high pitch horn and low pitch horn	151- 10- F4		BK	1
C193	Front of engine compartment, behind grille on daytime running lamps (DRL) module	151- 10- F5	97−3		6
C194	Right front of vehicle, on right front park/turn lamp	151- 10- F2		BK	3
C195	On right hand aero headlamp	151- 10- F3		BK	3
C196	Left front of vehicle, on left hand headlamp	151- 10- F8		GY	3
C197	On right hand headlamp	151- 11- F3		GY	3
C198	On generator	151- 22- A7		GY	3
C199	On generator	151- 22- A7		GY	1
C200	Below RH side of I/P, on electronic crash sensor (ECS) module	151- 12-C10	46−3	GY	28
C201	Behind right kick panel	151- 15- D1	150−12	BK	14
C202	Behind right kick panel	151- 15- E1	150−13	GY	12
C203	Behind right kick panel	151- 15- C1	150−13	BK	16
C204	Center of I/P, on function selector switch	151- 12-A10		RD	4
C205	Center of I/P, on A/C illumination lamp	151- 13- A9		BK	2
C206	Center of I/P, on temperature control switch	151- 13-A10		WH	3
C207	Center of I/P, on front blower switch	151- 13- A7		BK	4
C208	Below RH side of I/P, on RABS diagnostic connector	151- 13- F7		BK	1
C209	Behind RH side of I/P, on passenger air bag	151- 12-C10		BK	3
C210	Behind RH side of I/P, on air bag bracket	151- 12-B10		BK	1
C212	Center of I/P, on radio	151- 12- F9		GY	8
C213	Center of I/P, on radio	151- 12- F9		BK	8
C214	Behind center of I/P, on warning buzzer module	151- 12- F7	66−2	GY	7
C215	Behind center of I/P, on illuminated entry module	151- 12- F6	94−2		8
C216	Behind center of I/P, on wiper control module	151- 12- F4	81−5		14
C217	Behind center of I/P, on rear anti-lock brake system (RABS) module	151- 13- A5	42−7	BK	14
C218	Center of I/P, on cigar lighter	151- 13- F6		BK	1

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C219	Behind center of I/P, on power plug	151- 13- F5		BK	2
C220	Top of steering column, on air bag sliding contact	151- 12- F3		BK	3
C221	RH side of steering column, on shift lock actuator	151- 13- F3		BK	3
C222	Top of steering column, on overdrive cancel switch	151- 12- E1		BK	3
C223	Top of steering column, on air bag sliding contact	151- 12- F3	150−14	BN	6
C224	LH side of I/P, on instrument cluster	151- 13- A3	60−7	WH	16
C225	LH side of I/P, on instrument cluster	151- 13- A3	60−7	BK	12
C226	LH side of I/P, on instrument cluster	151- 13- A3	60−8	WH	12
C227	LH side of I/P, on main light switch	151- 12- C1	13−29	WH	9
C228	At base of steering column, to multifunction switch	151- 13- C1	150−14	BK	16
C229	Left rear of engine compartment, on cowl	151- 10-D10	150−15	BK	76
C230 (With A/C)	Center of I/P, above radio on auxiliary A/C-Heater blower switch	151- 12- A4	54−7	GY	6
C230 (Without A/C)	Center of I/P, above radio on auxiliary heater blower switch	151- 12- A8	53−5	GY	6
C231	Center of I/P, on radio	151- 12- F9		BK	2
C232	Behind center of I/P, on 4WABS relay	151- 12- F5	42−7	BK	5
C233	Behind left side of I/P, to modified vehicle power	★	95−5	BN	6
C234	Left rear of engine compartment, on cowl	151- 10-B10	150−18		76
C236	Under right side of I/P, on inertia fuel shutoff (IFS)	151- 15- B1		GY	3
C237	Under right side of I/P, on blend door actuator	151- 14-A10	53−5	BK	8
C238	Behind LH side of I/P, on brake pedal position (BPP) switch	151- 14- F4		BK	2
C239	Behind LH side of I/P, on electronic flasher	151- 14- F2		BK	3
C240	RH side of steering column, on ignition switch	151- 14- F3	13−29	GY	11
C241	Below LH side of I/P, on data link connector (DLC)	151- 14- F6	14−3	BK	16
C242	Below LH side of I/P, on ABS data link connector	151- 14- F8		BK	4
C243	Near LH kick panel, on parking brake switch	151- 14- A2		BK	1
C244	Below LH side of I/P, to electronic brake	★	150−20	BK	6
C245	Below LH side of I/P, on RKE data link connector	151- 14- A5		BK	2
C246	Above accelerator pedal, on accelerator pedal (AP) position sensor	151- 14- A6			3
C247	Below LH side of I/P, on idle validation switch	151- 14- F5		BK	2
C248	Below LH side of I/P, on barometric pressure (BARO) sensor	151- 14- A4		BK	4

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C249	Below LH side of I/P, on auxiliary powertrain control connector	*		BK	4
C250	Top side of steering column, on multifunction switch	151- 13- C1	90−4	GY	11
C251	Top side of steering column, on multifunction switch	151- 13- C1	85−2	GY	7
C252	On horn switch	*			2
C253	Top of steering column, on speed control switch assembly	*			3
C255	Top of steering column, on driver air bag	*			2
C257	Center of I/P, on cigar lighter	151- 13- F6		BK	1
C262	Behind LH side of I/P, on driveline disconnect	*			1
C300	Along left "B" pillar, near roof	151- 17- A8	150−20	GY	12
C301	Along left "B" pillar, near safety belt retractor	151- 17- A9	150−21	BK	12
C302	Along left "B" pillar, near safety belt retractor	151- 17-A10	150−22	GY	14
C303	Along left "B" pillar, near roof	151- 16- A4		GY	3
C305	Under rear center of vehicle, on fuel tank pressure transducer	151- 16- F3		BK	3
C306	Beneath left center of vehicle to in-transit fuel pump module	*		BK	4
C308	Behind right "B" pillar, on side door courtesy lamp switch	151- 16-E10		GY	3
C309	Behind right "B" pillar, on button contact	151- 16-F10		BK	4
C310	Behind right kick panel, near RH courtesy lamp switch	151- 15- F4	150−23	GY	14
C311	Front center of side door, on RH side door speaker	151- 16- F9		GY	2
C312	Behind right "B" pillar, on side door courtesy lamp switch	151- 17-E10			3
C313	Along right "B" pillar	151- 17- F8		GY	3
C314	Along right "B" pillar	151- 17- F8		GY	4
C315	In side door, on side door lock actuator	151- 16-D10			2
C323	Behind RH kick panel, near inertia fuel shutoff (IFS)	151- 15- A5	150−24	BK	10
C324	Behind RH kick panel, near inertia fuel shutoff (IFS)	151- 15-B10	150−25	GY	8
C325	Near LH courtesy lamp switch	151- 14- B1	150−26	BK	10
C326	Near LH courtesy lamp switch	151- 14- C1	150−27	GY	8
C327	In right front door jamb, on right hand courtesy lamp switch	151- 15-D10			3
C328	In left front door jamb, on left hand courtesy lamp switch	151- 14- E1			3
C329	Behind left "B" pillar, near floor	151- 17- F7	150−28	GY	8
C330	Near left mid speaker, on memory lock module	151- 17- F6	110−4	BK	10
C331	Behind left "B" pillar, near safety belt retractor	151- 16- A3	150−29	BN	6

* No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C332	Behind left "B" pillar, on left hand mid speaker	151- 16- A1		GY	2
C334	Behind left "B" pillar, near remote radio control	151- 17- F7		GY	8
C335	In side panel behind driver door, on remote keyless entry module	151- 16- C1	111−5	BK	13
C336	In side panel behind driver door, on remote keyless entry module	151- 16- C1	111−5	GY	13
C337	Below left side of driver seat, on driver seat regulator control switch	151- 21-C10	120−2	BK	8
C338	Underside of driver seat, on driver seat motor assembly	151- 21- A5	120−2	BN	6
C339	Under driver seat	151- 21- F7		GY	2
C340	Under driver seat	151- 21- F7		WH	4
C341	Right side of driver seat, on driver safety belt	151- 21- F3			4
C342	Right side of passenger seat, on passenger safety belt	★			2
C343	Under right front seat, to passenger safety belt	151- 17-E10		WH	4
C344	Inside left frame rail, on in-transit fuel pump module	★		BK	4
C345	Behind left "B" pillar, near C329	★			2
C346	Along left "B" pillar, near safety belt retractor	151- 17-A10	150−29		14
C347	Below center rear of vehicle, on fuel pump module	151- 16- F4		BK	4
C348	Under LH center of vehicle, on midship fuel tank valve	151- 18- C1			2
C349	Under LH center of vehicle, on fuel tank pressure sensor	151- 18- F5		BK	4
C350	Under LH rear of vehicle, near rear axle	151- 18- D1		BK	4
C351	Under LH center of vehicle, on fuel tank temperature sensor	151- 18- F7			2
C352	Under LH center of vehicle, on fuel tank sender	151- 18- F6		BK	4
C353	Under rear of vehicle, on forward aft-axle tank valve	151- 18- E1			2
C354	Under rear of vehicle, on rear aft-axle tank valve	151- 18- E1			2
C400	In right rear corner of vehicle, on right hand reversing lamp	151- 17- F4		GY	3
C401	In right rear corner of vehicle, on RH stop/park/turn lamp	151- 17- F5		BK	3
C402	Left rear cargo area, near auxiliary blower motor	151- 17- A1	150−30	GY	12
C403	Left rear cargo area, on auxiliary blower motor relay	151- 17- A3	54−7	BK	5
C404	Left rear cargo area, on auxiliary high blower motor relay	151- 17- A4	54−8	BK	5

★ No Figure Available

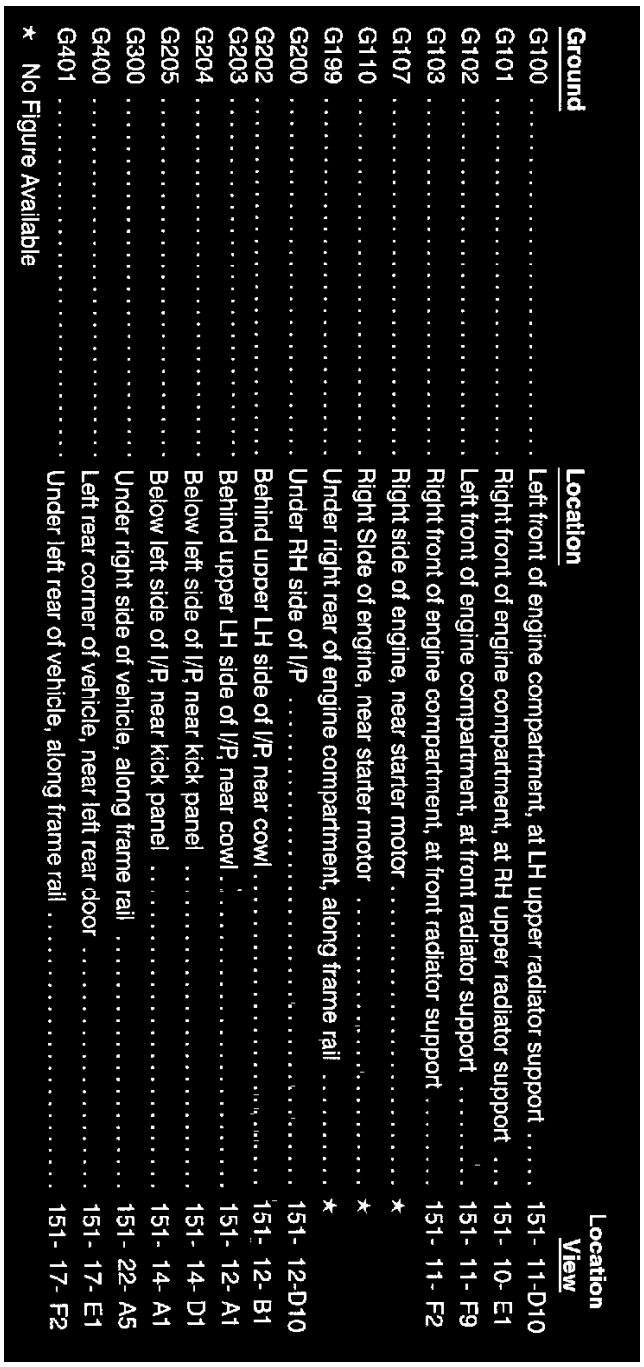
Connector	Location	Location View	Connector View	Color	Terminal
C405	Left rear cargo area, on auxiliary blower resistor	151- 17- A2		WH	4
C406	In left rear cargo area, on auxiliary blower motor	151- 17- B1		BK	2
C407	In right rear of vehicle, near RH reversing lamp	151- 19- D1	150−31	GY	8
C408	In center of right rear door, on license lamp	151- 19- F3		BK	2
C409	In left rear corner of vehicle, on LH reversing lamp	151- 17- E1		GY	3
C410	In left rear corner of vehicle, on left stop/park/turn lamp	151- 17- C1		BK	3
C411	Rear center of roof, on high mounted stoplamp	151- 16- B1		BK	4
C412	In left rear corner of vehicle, near left reversing lamp	151- 19-D10		GY	2
C413	Center of left rear door, on left hand rear speaker	151- 19-B10		GY	2
C414	In right rear door jamb, on rear courtesy lamp switch	151- 17- F3			3
C415	Beneath center rear of vehicle, on rear axle speed sensor	151- 16- F5		BK	2
C416	Beneath left rear of vehicle, on EVAP canister purge valve	151- 16- F6		BK	2
C417	Left rear of vehicle, to trailer tow wiring	151- 16- D1		BN	4
C418	Left rear of vehicle, to trailer tow wiring	151- 16- E1		BK	4
C419	Left rear of vehicle, to trailer/camper adapter connector	151- 16- F2	95−7		7
C420	Below left rear of vehicle, near rear axle	151- 18- D1		BK	4
C421	Center of RH rear door, on right hand rear speaker	151- 19- B1		GY	2
C422	Center rear of vehicle, on trailer/camper adapter connector	151- 18- F3		BK	4
C423	In right rear door, on rear door lock actuator	151- 19- F6		WH	2
C424	In right rear of vehicle, near RH reversing lamp	151- 19- C1			3
C425	In right rear of vehicle, near license lamp	151- 19- B1			5
C500	Center of left front door, on master window/door lock control switch	151- 18- A3	100−3	BK	15
C501	Rear of left front door, on left front door lock actuator	151- 18- A1			2
C502	Lower center of left front door, on left hand power window motor	151- 18- F8		GY	2
C504	Top front of left front door, on left front door speaker	151- 18- A4		GY	2
C505	Center of left front door, on exterior rear view mirror switch	151- 18- F4	124−2	GY	8
C506	In left front door, on LH door handle switch	151- 18- A2		BK	2
C507	Front of left front door, to left exterior rear view mirror	151- 18- A8		GY	3
C508	Center of left front door, on exterior rear view mirror switch	151- 18- F4	124−2	GY	8
C600	Center of right front door, on RH power door lock/window switch	151- 18-C10	100−3	BK	10

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C601	Lower center of right front door, on RH power window motor	151- 18- F9		GY	2
C602	Top rear of right front door, on right front door lock actuator	151- 18-E10			2
C604	Front center of right front door, on right front door speaker	151- 18-B10		GY	2
C605	Top rear of right front door, on RH door handle switch	151- 18-D10		BK	2
C606	Top front of right front door, to right exterior rear view mirror	151- 18-A10		GY	3
C900	Rear of vehicle roof, on cargo lamp	★		GY	3
C901	Rear of vehicle roof, on rear interior/map switch and lamp	151- 16- B1		GY	3
C902	In front headliner, to interior lamp	151- 18- A7		BK	3
C903	In front headliner, to interior/map switch and lamp	151- 16- A7		BK	3
C904	Middle of rear headliner, on interior switch/lamp	151- 18- A7		BK	3
C915	Rear of vehicle roof, near cargo lamp	★		GY	3
C916	Center of roof, on rear auxiliary blower switch	151- 17- A5		BK	4
C921	LH side of front headliner, to left hand visor lamp	151- 16- A6		WH	1
C922	RH side of front headliner, to right hand visor lamp	151- 16- A8		WH	1
C1004	Lower left front of engine, on engine coolant temperature sender	151- 1- F6			2
C1006	Center of engine, on injection pressure regulator	151- 1- A4			2
C1007	Top center of engine, on engine oil temperature sensor	151- 1- F8			2
C1008	Top right center of engine, on exhaust back pressure (EBP) sensor	151- 1- F3			3
C1009	Top center of engine, on injection control pressure sensor	151- 1- F7			3
C1010	Front center of engine, on camshaft position sensor	151- 1- F5			
C1011	Left rear top of engine, on exhaust pressure regulator	151- 1- A6			2
C1012	LH side inner fender of engine compartment, on NGV module	151- 11-A10	28−14		60
C1013	LH rear of engine compartment, on NGV timer	151- 11- A6	28−15		12
C1014	Above right bank of engine, on fuel rail cutoff valve	151- 7-E10		BK	4
C1015	Above right bank of engine, on fuel rail temperature sensor	151- 7-A10			2
C1016	Above right bank of engine, on injection pressure sensor (IPS)	151- 7- A9		BK	4
C1017	Top left side of transmission	151- 20- A1	150−9		16
C1018	Top center of engine, on fuel line heater	151- 1- A5			1
C1019	LH rear of engine compartment above master cylinder	151- 10- A9			4
C1020	Top RH side of engine on generator (primary)	151- 23- A4			3

★ No Figure Available

Connector	Location	Location View	Connector View	Color	Terminal
C1021	Right side of transmission, on turbine shaft speed (TSS) sensor	★	30−9		2
C1022 (4.2L)	Front center of engine, on camshaft position (CMP) sensor	151- 2- B1			3
C1029	Center of engine compartment, on mass air flow (MAF) sensor	151- 10-A5	24−14		6
C1030	Center of engine compartment near mass air	★	150−30	BK	6
C1033	Top front of left cylinder head, near cylinder head temperature (CHT) sensor	★		BK	4
C1155	Right side of engine compartment, on manifold absolute pressure (MAP) sensor	★			3
C1156	RH top of engine compartment near generator (primary)	151- 23- C1			4
C1157	Left front side of engine compartment, on injector driver module	151- 11-D10	23−11		
C1158	Left top of engine, to fuel injectors and glow plugs	151- 1-C10,	150−31		9
C1159	Right top of engine, to fuel injectors and glow plugs	151- 1- C1	150−31		9
C1198	RH side of engine on generator (secondary)	151- 23- F3			3
C1949	Top rear of engine, near T/O to C168	★			1
C1998	Top left center of engine, on water in fuel sensor	151- 1- A7			1



Ground	Location	Location View
G100	Left front of engine compartment, at LH upper radiator support	151- 11-D10
G101	Right front of engine compartment, at RH upper radiator support	151- 10- E1
G102	Left front of engine compartment, at front radiator support	151- 11- F9
G103	Right front of engine compartment, at front radiator support	151- 11- F2
G107	Right side of engine, near starter motor	★
G110	Right Side of engine, near starter motor	★
G199	Under right rear of engine compartment, along frame rail	★
G200	Under RH side of I/P	151- 12-D10
G202	Behind upper LH side of I/P, near cowl	151- 12- B1
G203	Behind upper LH side of I/P, near cowl	151- 12- A1
G204	Below left side of I/P, near kick panel	151- 14- D1
G205	Below left side of I/P, near kick panel	151- 14- A1
G300	Under right side of vehicle, along frame rail	151- 22- A5
G400	Left rear corner of vehicle, near left rear door	151- 17- E1
G401	Under left rear of vehicle, along frame rail	151- 17- F2

★ No Figure Available

G100-G401

Splices

Splice	Location
S100	Transmission control harness, near Take/Out **(T/O)** to C115
S102	Transmission control harness, near T/O to C114
S103	Fuel charge harness, near T/O to C117
S104	Fuel charge harness, near T/O to C120
S105	Fuel charge harness, near T/O to C123
S106	Fuel charge harness, near T/O to C122
S107	Fuel charge harness, near T/O to C134
S108	Engine control harness, near T/O to battery junction box
S109	Engine control harness, near T/O to battery junction box
S110	Engine control harness, near T/O to battery junction box
S111	Engine control harness, near T/O to battery junction box
S112	Engine control harness, near T/O to battery junction box
S113	Engine control harness, near T/O to battery junction box
S114	Engine control harness, near T/O to battery junction box

S115 ..... Engine control harness, near T/O to battery junction box
S116 ..... Engine control harness, near T/O to battery junction box
S117 ..... Engine control harness, near T/O to C1OO
S118 ..... Engine control harness, near T/O to C234
S119 ..... Engine control harness, near T/O to C234
S120 ..... Engine control harness, near T/O to C234
S121 ..... Engine control harness, near T/O to C229
S122 ..... Engine control harness, near T/O to C229
S123 ..... Engine control harness, near T/O to C229
S124 ..... Engine control harness, near T/O to C229
S125 ..... Engine control harness, near T/O to C229
S126 ..... Engine control harness, near T/O to C234
S127 ..... Engine control harness, near T/O to C147
S128 ..... Engine control harness, near T/O to C147
S129 ..... Engine control harness, near T/O to C234
S130 ..... Engine control harness, in T/O to C234
S131 ..... Engine control harness, near T/O to C234
S132 ..... Engine control harness, near T/O to C150
S133 ..... Engine control harness, near T/O to C120
S134 ..... Engine control harness, near T/O to C120
S135 ..... Engine control harness, near T/O to C120
S136 ..... Engine control harness, near T/O to C120
S137 ..... Engine control harness, in T/O to C154
S138 ..... Engine control harness, near T/O to C120
S139 ..... Engine control harness, near T/O to C120
S140 ..... Engine control harness, near T/O to C120
S141 ..... Engine control harness, near T/O to C155
S142 ..... Engine control harness, near T/O to C155
S143 ..... Engine control harness, near T/O to C159
S144 ..... Engine control harness, near T/O to C159
S145 ..... Engine control harness, near T/O to C229
S146 ..... Engine control harness, near T/O to C229
S147 ..... Engine control harness, near T/O to C120
S148 ..... Engine control harness, near T/O to C121
S149 ..... Engine control harness, near T/O to C123
S150 ..... Engine control harness, near T/O to C122
S151 ..... Engine control harness, near T/O to C136
S152 ..... Engine control harness, near T/O to C171
S153 ..... Engine control harness, near T/O to C129
S154 ..... Engine control harness, near T/O to C170
S155 ..... Engine control harness, near T/O to C134
S156 ..... Engine control harness, near T/O to C177
S157 ..... Engine control harness, near T/O to C187
S158 ..... Engine control harness, near T/O to C131
S159 ..... Engine control harness, near T/O to C113
S160 ..... Engine control harness, near T/O to C183
S161 ..... Engine control harness, near T/O to C119
S162 ..... Engine control harness, near T/O to C134
S163 ..... Dash to headlamp harness, near T/O to C190
S164 ..... Dash to headlamp harness, near T/O to C193
S165 ..... Dash to headlamp harness, near T/O to G103
S167 ..... Engine control harness, in T/O to C166
S168 ..... Engine control harness, in T/O to C116
S169 ..... Engine control harness, in the T/O to C154
S170 ..... Engine control harness, in T/O to C116
S171 ..... Fuel charge harness, in T/O to C116
S172 ..... Fuel charge harness, in T/O to C140
S173 ..... Fuel charge harness
S175 ..... Engine control harness, near T/O to C229
S176 ..... Engine control harness, near T/O to battery junction box
S178 ..... RH front of engine compartment, near battery junction box
S179 ..... Engine control harness, near T/O to C149
S180 ..... Engine control harness, in T/O to C1019
S151 ..... Engine control harness, in T/O to C1012
S152 ..... Engine control harness, near T/O to C229
S153 ..... Engine control harness, near T/O to C229

S154 ..... Engine control harness, near T/O to C229
S155 ..... Engine control harness, near T/O to C229
S188 ..... Engine control harness, near T/O to C156
S189 ..... Engine control harness, near T/O to C1016
S190 ..... Engine control harness, in T/O to C121
S191 ..... In Navistar engine harness, near T/O to glow plug relay
S200 ..... Main wiring harness, near T/O to C210
S201 ..... Main wiring harness, near T/O to C201
S202 ..... Main wiring harness, near T/O to C212
S203 ..... Main wiring harness, near T/O to C212
S204 ..... Main wiring harness, near T/O to C212
S205 ..... Main wiring harness, near T/O to C223
S206 ..... Main wiring harness, near T/O to C223
S207 ..... Main wiring harness, near T/O to C223
S208 ..... Main wiring harness, near T/O to C223
S209 ..... Main wiring harness, near T/O to C223
S210 ..... Main wiring harness, near T/O to C233
S211 ..... Main wiring harness, near T/O to C225
S212 ..... Main wiring harness, near T/O to C225
S213 ..... Main wiring harness, near T/O to C225
S214 ..... Main wiring harness, in T/O to C228
S215 ..... Main wiring harness, near T/O to C233
S216 ..... Main wiring harness, near T/O to C233
S217 ..... Main wiring harness, near T/O to C233
S218 ..... Main wiring harness, near T/O to C233
S219 ..... Main wiring harness, in T/O to C227
S220 ..... Main wiring harness, near T/O to C223
S221 ..... Lower Instrument Panel **(I/P)** harness, near T/O to C238
S222 ..... Lower I/P harness, near T/O to C238
S223 ..... Lower I/P harness, near T/O to C238
S224 ..... Lower I/P harness, near T/O to C234
S225 ..... Lower I/P harness, near T/O to C234
S226 ..... Lower I/P harness, near T/O to C234
S227 ..... Lower I/P harness, near T/O to C234
S228 ..... Lower I/P harness, in T/O to C241
S229 ..... Lower I/P harness, in T/O to C241
S230 ..... Lower I/P harness, near T/O to C245
S231 ..... Lower I/P harness, near T/O to G204
S232 ..... Lower I/P harness, near T/O to G204
S233 ..... Lower I/P harness, near T/O to G204
S234 ..... Lower I/P harness, near T/O to C301
S235 ..... Lower I/P harness, near T/O to C329
S236 ..... Lower I/P harness, near T/O to C246
S237 ..... Lower I/P harness, near T/O to C245
S238 ..... Lower I/P harness, near T/O to G204
S239 ..... Lower I/P harness, near T/O to G204
S240 ..... Lower I/P harness, near T/O to C237
S241 ..... Lower I/P harness, near T/O to C237
S242 ..... Lower I/P harness, near T/O to C245
S243 ..... Lower I/P harness, near T/O to C331
S244 ..... Lower I/P harness, near T/O to C331
S245 ..... Lower I/P harness, in T/O to central junction box
S246 ..... Lower I/P harness, near T/O to C329
S247 ..... Lower I/P harness, near T/O to C331
S248 ..... Lower I/P harness, near T/O to C331
S249 ..... Lower I/P harness, near T/O to C331
S250 ..... Lower I/P harness, near T/O to C345
S251 ..... Lower I/P harness, near T/O to G204
S252 ..... Lower I/P harness, near T/O to G204
S253 ..... Lower I/P harness, near T/O to G204
S255 ..... Lower I/P harness, near T/O to C329
S256 ..... Lower I/P harness, near T/O to C334
S257 ..... Lower I/P harness, near T/O to C329
S258 ..... Lower I/P harness, near T/O to C331
S259 ..... Lower I/P harness, near T/O to C331
S260 ..... Lower I/P harness, near T/O to C332

S261 ..... Lower I/P harness, near T/O to C245
S262 ..... Lower I/P harness, near T/O to C245
S263 ..... Lower I/P harness, near T/O to C245
S264 ..... Lower I/P harness, near T/O to C237
S265 ..... Lower I/P harness, near T/O to C237
S266 ..... Lower I/P harness, near T/O to C238
S267 ..... Main wiring harness, near T/O to G200
S268 ..... Main wiring harness, near T/O to C229
S269 ..... Lower I/P harness, near T/O to C238
S270 ..... Main wiring harness, near T/O to C223
S271 ..... Lower I/P harness, near TO to C238
S300 ..... Rear harness, near T/O to C302
S301 ..... Rear harness, near T/O to C302
S302 ..... Rear harness, near T/O to C302
S303 ..... Rear harness, near T/O to C300
S304 ..... Rear harness, near T/O to C300
S305 ..... Rear harness, near T/O to C300
S306 ..... Rear harness, near T/O to C402
S307 ..... Fuel tank harness, near T/O to C347
S308 ..... Fuel tank harness, near T/O to C104
S309 ..... Fuel tank harness, near T/O to C104
S310 ..... Fuel tank harness, near T/O to C101
S314 ..... Interior lamp harness, near T/O to C318
S315 ..... Seat control jumper harness, near T/O to C338
S316 ..... Fuel tank harness, near T/O to C351
S317 ..... Fuel tank harness, near T/O to C352
S318 ..... Fuel tank harness, near T/O to C352
S319 ..... Fuel tank sender extension harness, near T/O to C350
S320 ..... Fuel tank sender extension harness, near T/O to C350
S400 ..... Window regulator relay switch harness, near T/O to C345
S401 ..... Auxiliary blower motor harness, in T/O to C402
S402 ..... Rear harness, near T/O to C412
S403 ..... Rear harness, near T/O to C411
S404 ..... Rear harness, near T/O to C411
S405 ..... Rear harness, near T/O to C411
S406 ..... Rear harness, near T/O to C407
S500 ..... Left front door near T/O to window motor
S501 ..... Left front door harness in T/O to C500
S502 ..... Left front door harness, in T/O to C501
S503 ..... Left front door harness, near T/O to C501
S504 ..... Left front door near T/O to C507
S505 ..... Left front door near T/O to C505
S600 ..... Right front door harness near T/O to C601
S613 ..... Main wiring harness, near T/O to C144
S911 ..... Interior harness, in T/O to C300
S912 ..... Interior harness, in T/O to C300
S913 ..... Interior harness, in T/O to C904
S914 ..... Interior harness, in T/O to C300
S1001 ..... Fuel injector harness near T/O to C1007
S1002 ..... Fuel injector harness near T/O to C1010
S1003 ..... Fuel injector harness near T/O to C1159
S1004 ..... Fuel injector harness near T/O to C1158
S1007 ..... Fuel injector harness near fuel injectors
S1008 ..... RH side of engine compartment near starter motor relay
S1009 ..... RH side of engine compartment near starter motor relay
S1010 ..... RH front of engine compartment, near battery junction box
S1011 ..... RH front of engine compartment, near battery junction box
S1012 ..... RH front of engine compartment, near starter motor relay
S1013 ..... Fuel injector harness near T/O to C1006
S1014 ..... Fuel injector harness near fuel injectors