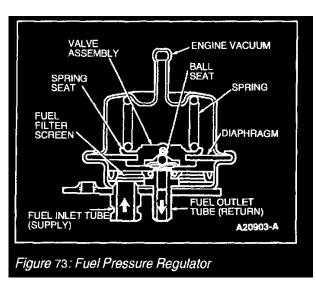
2	1	Pin	C1242 1807463C9 Injection Pressure Regulator (IPR)
552 (YE/RD)	361 (RD)	Circuit	C1242 1807463C91 Injecten Pressure Regulator (IPR)
Injection Pressure Regulator (IPR), to, Powentrain Con- trol Module (PCM) (12A650)	Voltage supplied in Start and Run (overload protected)	Circuit function	

2003 Ford Truck Econoline E150 1/2 Ton V6-4.2L VIN 2 Copyright © 2009, ALLDATA 9.90 Page 1

Fuel Pressure Regulator: Vehicle Damage Warnings CAUTION: Use O-rings made of special fuel resistant material. Use of ordinary O-rings can cause the fuel system to leak. Do not reuse O-rings.

Fuel Pressure Regulator: Description and Operation Gasoline Fuel System FUEL PRESSURE REGULATOR



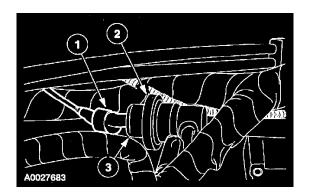
Fuel Pressure Regulator

The fuel pressure regulator (Figure 72) is attached to the fuel rail downstream of the fuel injectors. It regulates fuel pressure supplied to the fuel injectors. The regulator is a diaphragm-operated relief valve. One side of the diaphragm senses fuel pressure and the other side is connected to the intake manifold vacuum. Fuel pressure is established by a spring preload applied to the diaphragm. Balancing one side of the diaphragm with manifold vacuum maintains a constant fuel pressure drop across the fuel injectors. Fuel pressure is high when engine vacuum is low. Excess fuel is bypassed through the fuel pressure regulator and returned through the fuel return line to the fuel tank.

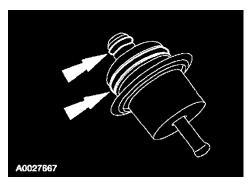
Fuel Pressure Regulator: Service and Repair REMOVAL

WARNING:

- ^ DO NOT SMOKE OR CARRY LIGHTED TOBACCO OR OPEN FLAME OF ANY TYPE WHEN WORKING ON OR NEAR ANY FUEL-RELATED COMPONENTS. HIGHLY FLAMMABLE MIXTURES ARE ALWAYS PRESENT AND MAY BE IGNITED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.
- [^] FUEL IN THE FUEL SYSTEM REMAINS UNDER HIGH PRESSURE EVEN WHEN THE ENGINE IS NOT RUNNING. BEFORE WORKING ON OR DISCONNECTING ANY OF THE FUEL LINES OR FUEL SYSTEM COMPONENTS, THE FUEL SYSTEM PRESSURE MUST BE RELIEVED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.
- 1. Remove the engine cover.
- 2. Relieve the fuel pressure.



- 3. Remove the pressure regulator.
 - 1 Remove the vacuum hose.
 - 2 Remove the retaining clip.
 - 3 Remove the fuel pressure regulator.



4. Remove and discard the two fuel pressure regulator O-rings.

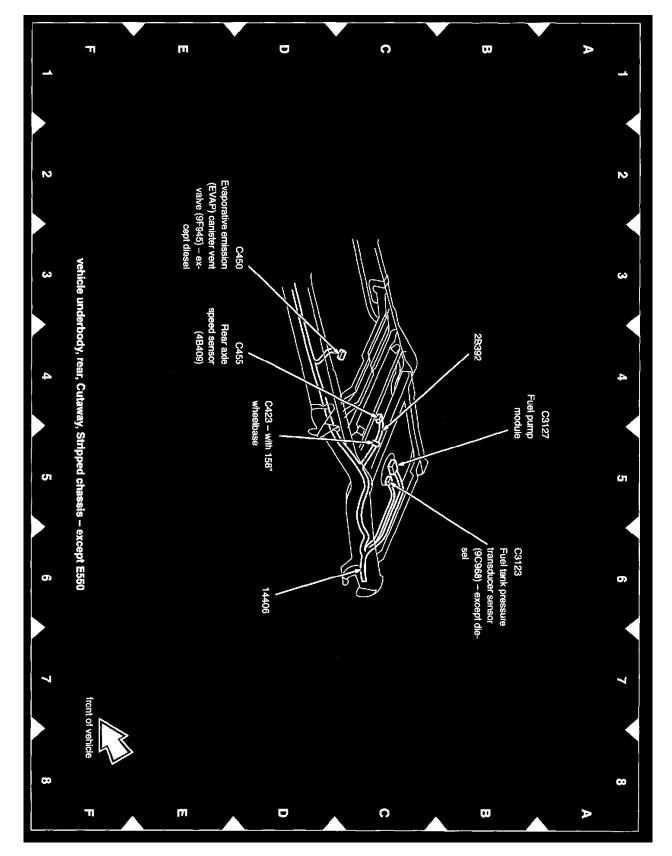
INSTALLATION

1. To install, reverse the removal procedure.

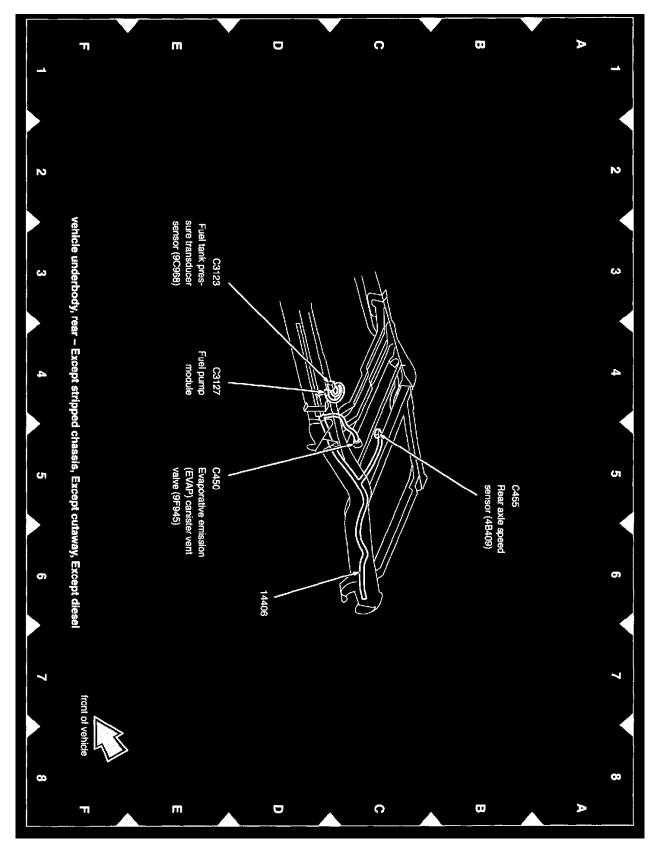
CAUTION: Use O-rings made of special fuel resistant material. Use of ordinary O-rings can cause the fuel system to leak. Do not reuse O-rings.

NOTE: Lubricate the new O-rings with clean engine oil to aid installation.

Fuel Pressure Sensor/Switch: Locations



View 151-44



View 151-45

Fuel Pressure Sensor/Switch: Diagrams Fuel Tank Pressure Transducer Sensor

ω	2	1	Pin			C3123 (BK) 14406 Fuel tank pressure transducer sensor (90968)
791 (RD/PK)	359 (GY/RD)	351 (BN/WH)	Circuit			3 (BK) Pressure sensor
Fuel tank pressure transducer sensor (9C968)	signal, return	Reference, voltage	Circuit function		502002	
		ы ы	2		Pin	C311 1440 Fuel tani transduc (9C968)
-		141 (RD/PK)	351 (BN/WH)	359 (GY/RD)	n Circuit	C3166 (BK) 14406 Fuel tank pressure transducer sensor (9C968)
not used		Fuel tank pressure transducer sensor (9C968)	Reference, voltage	signal, return	Circuit function	

ઝ	2	_	Pin	C1244 1807463C91 hijection Control Pressure (ICP) sen- sor
812 (DB/LG)	359 (GY/RD)	351 (BN/WH)	Circuit	-4 63C91 fontrot fCP1 seri-
Injection Control Pressure (ICP) sensor, to, Powertrain Control Module (PCM) (12A650)	signal, return	Reference, voltage	Circuit function	Fosta

4	3	Ŋ	-	Pin	C106 (BK) 12B637 Injection pressure sensor
141 (RD/PK)	-	359 (GY/RD)	351 (BN/WH)	Circuit	(BK) V 7 ressure
Injector pressure sensor	not used	signal, return	Reference, voltage	Circuit function	