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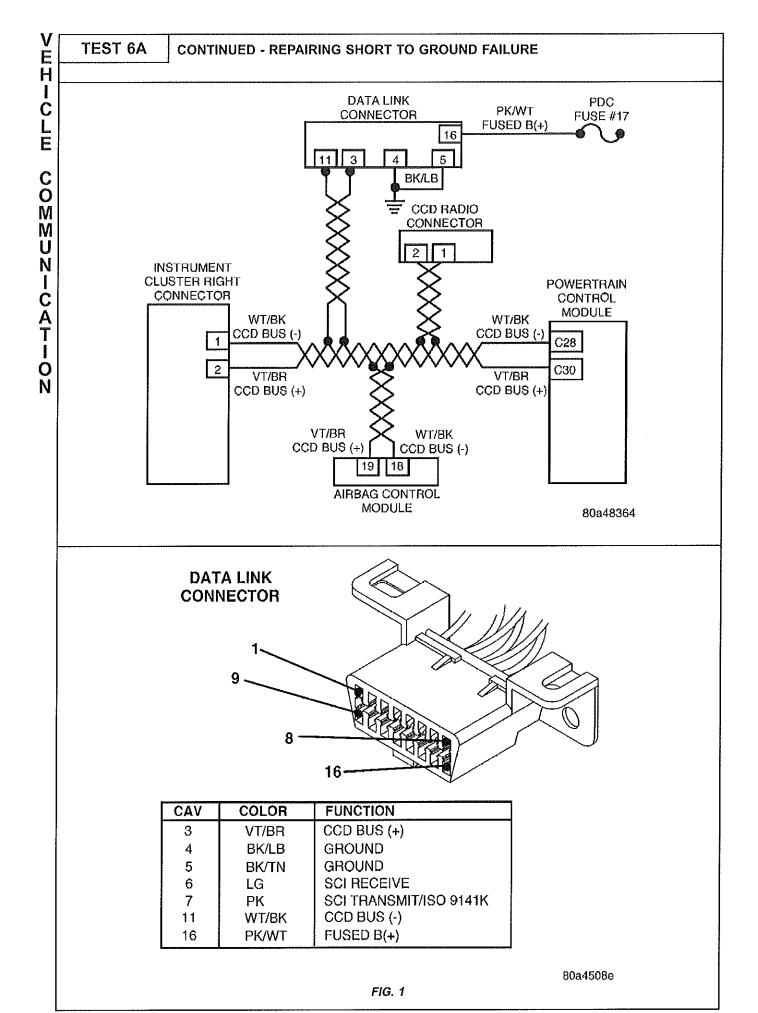
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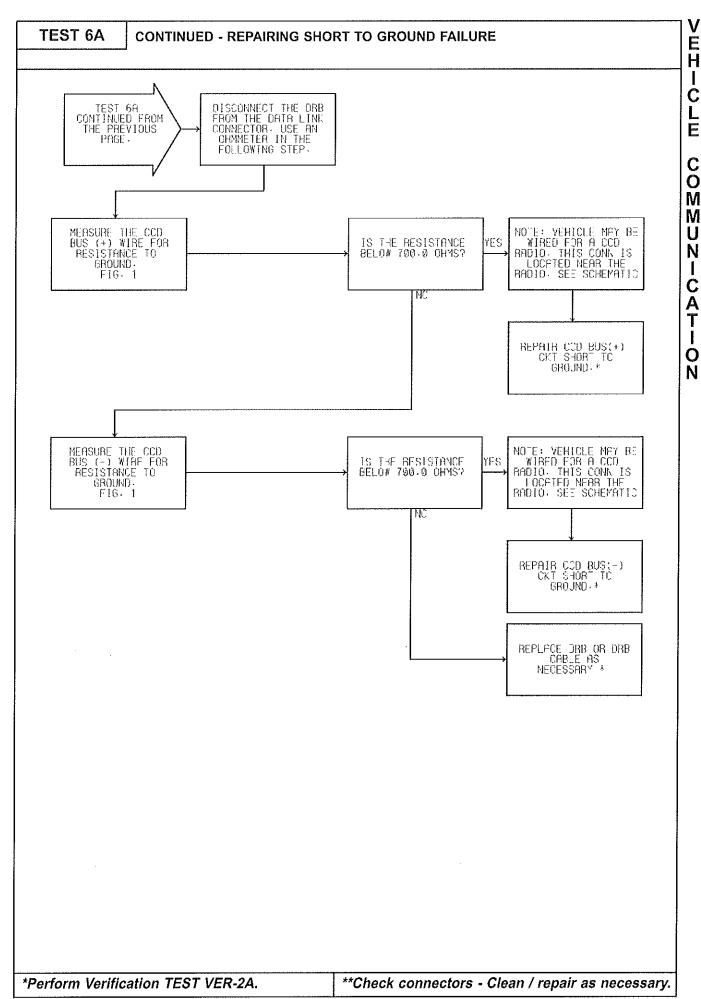
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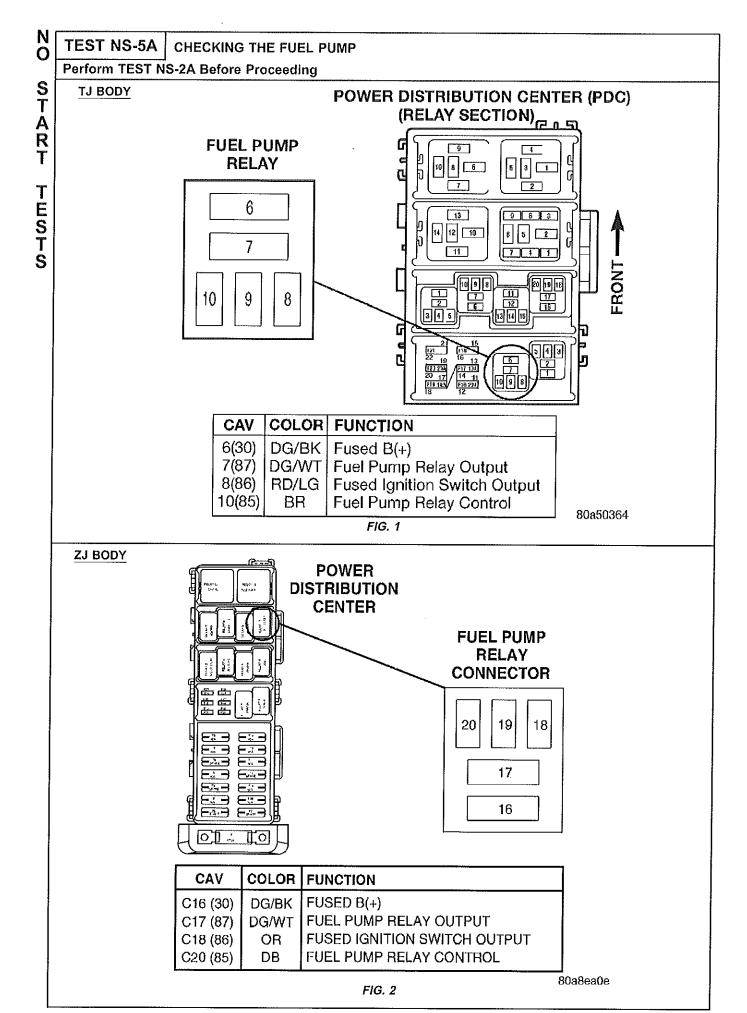
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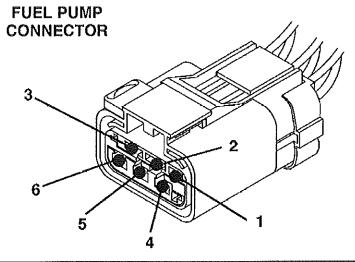
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STAR

E S T TEST NS-5A

CONTINUED - CHECKING THE FUEL PUMP

TJ BODY

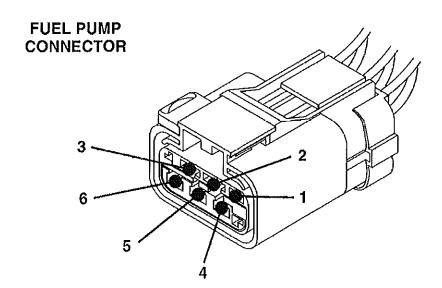


| CAV | COLOR | FUNCTION |
|-----|-------|-----------------------------------|
| 1 | DG/WT | FUEL PUMP RELAY OUTPUT |
| 3 | DB/LG | FUEL LEVEL SENSOR SIGNAL (OBD II) |
| 4 | BR/YL | SENSOR GROUND |
| 6 | BK | GROUND |

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FIG. 1

ZJ BODY



| CAV | COLOR | FUNCTION |
|-----|-------|-----------------------------------|
| 1 | DG/WT | FUEL PUMP RELAY OUTPUT |
| 3 | LB/BK | FUEL LEVEL SENSOR SIGNAL (OBD II) |
| 4 | BR/YL | SENSOR GROUND |
| 6 | BK | GROUND |

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S T

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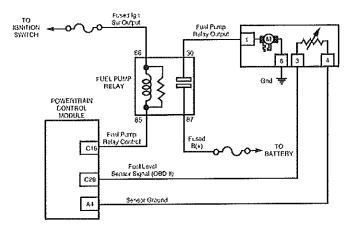
TESTS

R 0 U В C 0 D TESTS

TEST TC-101A REPAIRING - FUEL PUMP (SYSTEM) RELAY CONTROL CIRCUIT

Perform DTC TEST Before Proceeding

TJ AND ZJ BODIES



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Name of code: Fuel Pump Relay Control Circuit

When monitored: With the ignition key on and battery voltage greater than 10 volts.

Set condition: An open or shorted condition is detected in the fuel pump relay control circuit.

Theory of operation: The fuel pump relay controls the 12-volt source to the fuel pump. The relay is located in the power distribution center (PDC). One side of the relay control coil is supplied with 12 volts when the ignition switch is turned to the "run" position. The circuit is completed when the other side of the relay coil is grounded by the powertrain control module. The PCM grounds the relay when the ignition switch is in either the run or crank position and engine RPM is detected. If engine RPM is not detected, the PCM will remove the fuel pump relay control circuit ground.

Possible causes:

- Relay coil open or shorted

- Fused ignition switch output circuit open Fuel pump relay control circuit is open or shorted Inoperative circuit driver in powertrain control module
- Connector terminals
- Connector wires

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INACTIVE TROUBLE CODE CONDITION

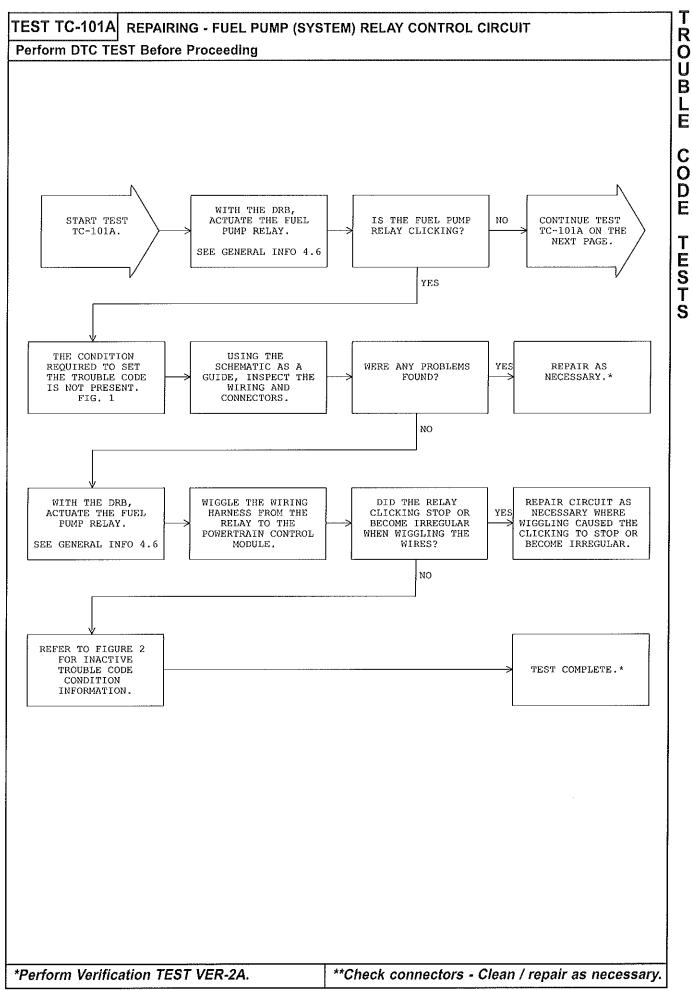
FIG. 1

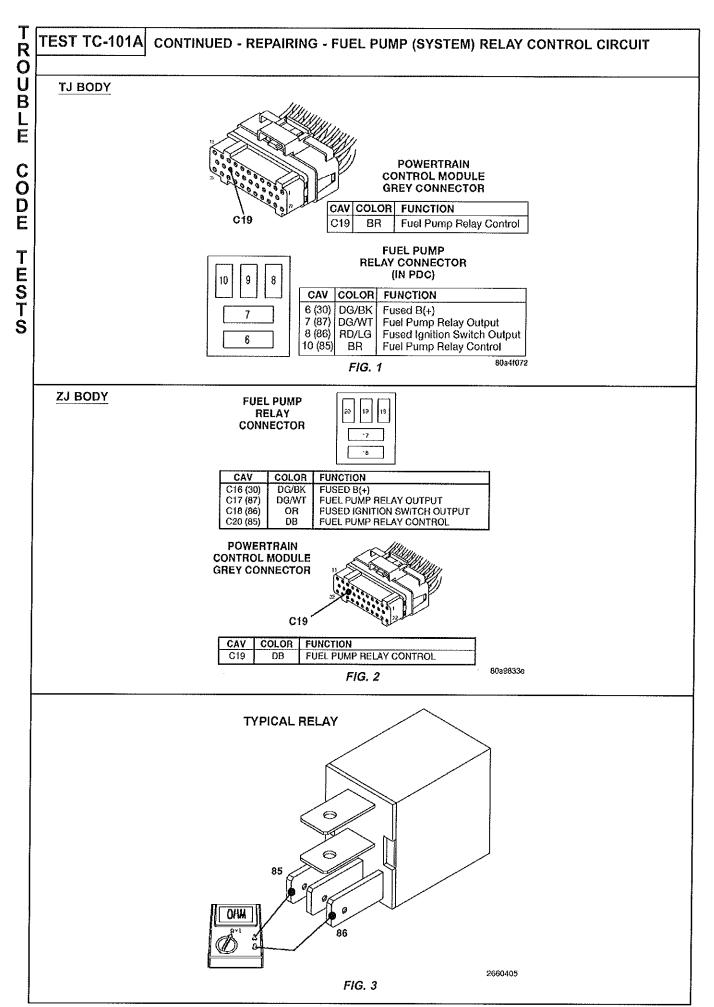
You have just attempted to simulate the condition that initially set the trouble code message. The following additional checks may assist you in identifying a possible intermittent problem:

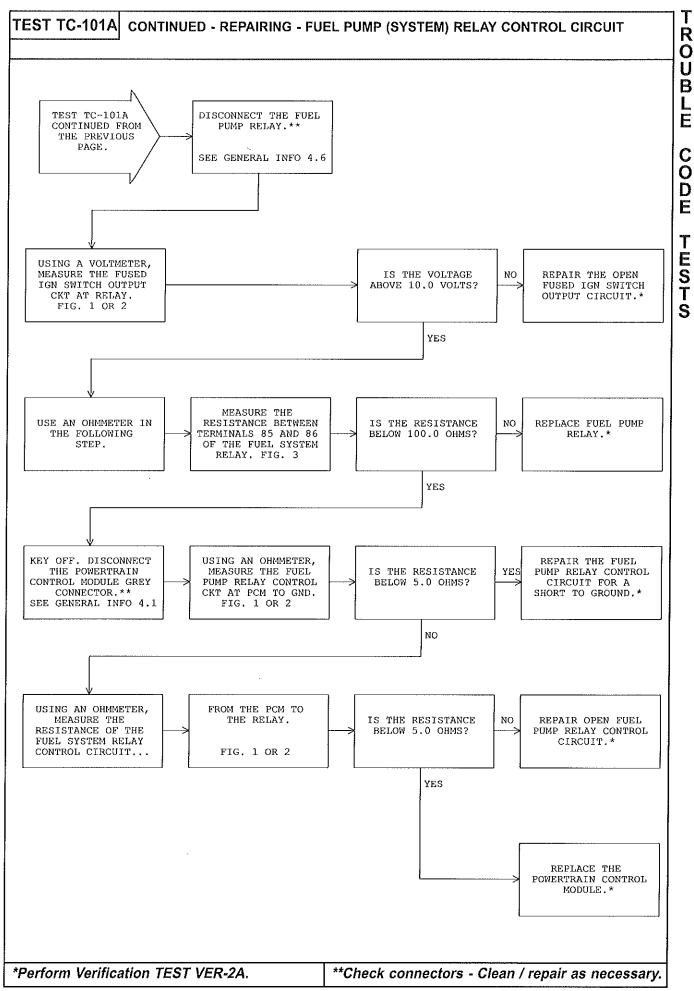
- Visually inspect related wire harness connectors. Look for broken, bent, pushed out, or corroded terminals.
- Visually inspect the related harnesses. Look for chafed, pierced, or partially broken wire.
- Refer to any hotlines or technical service bulletins that may apply.

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FIG. 2







FUEL PUMP RELAY

The fuel pump relay is located in the Power Distribution Center (PDC) Power Distribution Center (PDC) Refer to label on PDC cover for relay location. Check condition of relay terminals and connector terminals for corrosion and for pin height (pin height should be the same for all terminals within the connector) Repair if necessary before installing relay.