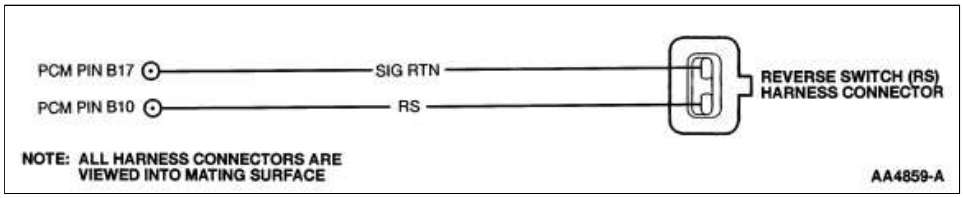
TH: Reverse Switch (RS)

Note

This Pinpoint Test is intended to diagnose the following:

- Reverse Switch (RS)
- RS harness circuits RS and SIG RTN
- PCM

Pinpoint Test Schematics and Connectors



TH1 DTC P0812: CHECK RS SWITCH FUNCTION

Note: *During KOEO Self-Test, gearshift lever in NEUTRAL.*

- Key on, engine off.
- Access RS PID and observe PID cycling ON/OFF with gear shift lever in and out of REVERSE.

Does reading change from ON to OFF?

Yes	KEY OFF. Fault intermittent DISCONNECT PCM. INSPECT both ends of the connector for damaged or pushed out pins, corrosion, loose wires. REPAIR as necessary. If OK, REPLACE PCM (refer to Section 2, Flash Electrically Erasable Programmable Read Only Memory (EEPROM)).
No	KEY OFF. GO to TH2.

TH2 CHECK RS SWITCH RESISTANCE

- Locate the reverse switch (RS) near the transmission shift linkage.
- Inspect switch and bracket for damage, bent or broken conditions. Repair as required.
- Disconnect RS harness connector.
- Measure the resistance between the reverse switch terminals with the shift lever in reverse.

Is the resistance less than 5.0 ohms?

Yes	GO to TH3.
No	REPLACE the RS switch.

TH3 CHECK RS CIRCUIT FOR OPEN IN HARNESS

- Disconnect scan tool.
- Disconnect PCM.
- Measure resistance of the RS circuit between PCM harness connector pin and RS harness connector.
- Where applicable, measure resistance of the SIG RTN circuit between PCM harness connector pin and RS harness connector.

Are both resistances less than 5.0 ohms?

Yes	GO to TH4.
No	REPAIR open circuit.

TH4 CHECK RS CIRCUIT FOR SHORT TO SIG RTN OR CHASSIS GROUND IN HARNESS

- Measure resistance between RS and SIG RTN circuits at the PCM harness connector.
- Measure resistance between RS circuit at the PCM harness connector and chassis ground.

Are both resistances greater than 10,000 ohms?

Yes	REPLACE PCM (refer to Section 2, Flash Electrically Erasable Programmable Read Only Memory (EEPROM)).
No	REPAIR short circuit.