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PINPOINT TEST H: EVO DIAGNOSIS

H1 CODE ACTIVATED: EVO ACTUATOR VALVE CHECK (SHORT TO GROUND OR AN OPEN CIRCUIT)

- Turn ignition switch to OFF position.
- Verify harness connection on the EVO actuator valve on power steering pump is properly seated.
- Read all codes.

Connector not properly seated
MAKE proper connection. GO to «G1» .

Connector properly seated
GO to **«H2»**.

Code 16 displayed
GO to **«H4»**.

Code 17 displayed
GO to **«H2»**.

Code 18 displayed
GO to **«H3»**.

PINPOINT TEST H: EVO DIAGNOSIS

H2 CHECK RESISTANCE ACROSS ACTUATOR VALVE

- Ignition switch in OFF position.
- Locate the control module in luggage compartment. Harness connectors can be disconnected from module without removing module.
- Using an ohmmeter, measure resistance across Pin 14 and Pin 26 of harness connector. Resistance should be 7-18 ohms. If the resistance is greater than 1000 ohms, the circuit is open.

Resistance is over 1000 ohms
GO to **«H3»**.

Resistance is over 18 ohms
GO to **«H4»**.

Resistance is less than 18 ohms
GO to **«H3»**.

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PINPOINT TEST H: EVO DIAGNOSIS

H3 CHECK CONTINUITY OF WIRING

- Ignition switch in OFF position.
- Disconnect EVO harness connector from EVO actuator valve located on power steering pump.
- Test continuity of Circuits 330 and 353 from the actuator connector to the 26-pin EVO control module connector.
- Refer to Component Location Schematic and System Schematic.
- **Is there continuity?**

Yes
GO to **«H4»**.

No
SERVICE wires as necessary. GO to «G1» .

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PINPOINT TEST H: EVO DIAGNOSIS

H4 CHECK EVO ACTUATOR VALVE RESISTANCE

- Disconnect EVO harness connector from EVO actuator valve located on power steering pump.
- Using an ohmmeter, measure resistance across the two actuator valve connector pins.

Resistance greater than 20 ohms or less than 5 ohms
REPLACE EVO valve.

Resistance is 5-20 ohms
GO to **«H5»**.

PINPOINT TEST H: EVO DIAGNOSIS

H5 CHECK WIRE HARNESS FOR SHORT TO GROUND

- Ignition switch in OFF position.
- EVO harness disconnected from EVO actuator valve.
- Disconnect EVO control module from the 26-pin connectors in luggage compartment. (Refer to «Removal» .)
- **Is module disconnected?**

  Yes
  GO to **«H6»**.

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PINPOINT TEST H: EVO DIAGNOSIS

H6 CHECK WIRE HARNESS FOR SHORT TO GROUND (Cont'd)

- Using an ohmmeter, measure resistance between Pin No. 21 (ground) and Pin 14 of harness connector.

  Resistance is over 1000 ohms
  GO to **«H7»**.

  Resistance is less than 10 ohms
  SERVICE harness. GO to **«H7»**.

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PINPOINT TEST H: EVO DIAGNOSIS

H7 CHECK WIRE HARNESS FOR SHORT TO GROUND (Cont'd)

- Using an ohmmeter measure resistance between Pin No. 21 (ground) and Pin 26 of harness connector.

  Resistance is less than 10 ohms
  SERVICE harness.

  Resistance is over 1000 ohms
  GO to **«H8»**.

PINPOINT TEST H: EVO DIAGNOSIS

H8 CHECK HARNESS FOR SHORT TO B+

- Ignition switch in RUN position.
- EVO harness disconnected from EVO actuator valve on power steering pump.
- Using a voltmeter, measure the voltage across
  - -- Pin No. 14 and Pin 21
  - -- Pin No. 26 and Pin 21
- **Is voltage greater than 5 volts?**

  Yes
  SERVICE wires. GO to «G1» .

  No
  GO to **«H9».**

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PINPOINT TEST H: EVO DIAGNOSIS

H9 CHECK FOR SHORT ACROSS CIRCUITS 975 AND 353

- Ignition switch in OFF position.
- EVO harness disconnected from EVO actuator valve on power steering pump.
- Using an ohmmeter, measure resistance across Pin 14 and Pin 26 on harness connector.

Resistance is less than 10 ohms (short)
SERVICE wires. GO to «G1» .

Resistance is over 1000 ohms
REPLACE EVO control module.