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PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B1 CODE "6" 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.
- Check connector condition on actuator.
- **Is connector properly seated?**

Yes
GO to **«B2»**.

No
Make proper connection, GO to «A2» .

Damaged or broken
REPLACE actuator.

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PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B2 CHECK RESISTANCE ACROSS ACTUATOR VALVE

- Ignition switch in OFF position.
- Locate the control module in luggage compartment. (Refer to «Removal» .)
- Using an ohmmeter, measure resistance across Pin 13 and Pin 14 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 **«B3»**.

Resistance is over 18 ohms
GO to **«B4»**.

Resistance is less than 18 ohms
GO to **«B3»**.

PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B3 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 14-pin EVO control module connector.
- Refer to Component Location Schematic and System Schematic.
- **Is there continuity?**

  Yes
  GO to **«B4»**.

  No
  SERVICE wires as necessary. GO to «A1» .

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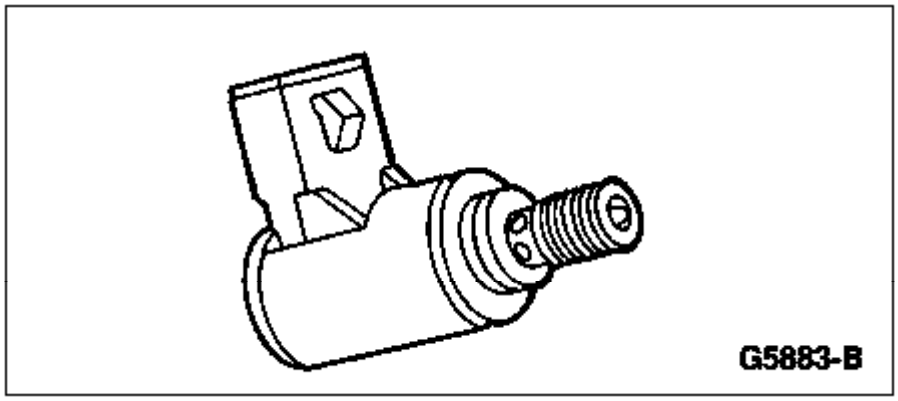
PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B4 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.
- **Is resistance 5 to 20 ohms?**



No
REPLACE EVO valve.

Yes
GO to **«B5»**.

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PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B5 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 14-pin connector in luggage compartment. (Refer to «Removal» .)
- **Is module connected?**

  No
  GO to **«B6»**.

  Yes
  GO to **«B9»**.

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PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B6 CHECK WIRE HARNESS FOR SHORT TO GROUND

- Using an ohmmeter, measure resistance between Pin 5 (ground) and Pin 13 of harness connector.

  Resistance is over 1000 ohms
  GO to **«B7»**.

  Resistance is less than 10 ohms
  SERVICE Harness. GO to **«B7»**.

PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B7 CHECK WIRE HARNESS FOR SHORT TO GROUND (Cont'd)

- Using an ohmmeter, measure resistance between Pin 5 (ground) and Pin 14 of harness connector.

  Resistance is less than 10 ohms
  SERVICE Harness.

  Resistance is over 1000 ohms
  GO to **«B8»**.

PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B8 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 13 and Pin 5
  - -- Pin 14 and Pin 5
- **Is voltage greater than 5 volts?**

Yes
SERVICE wires. GO to «A1» .

No
GO to **«B9».**

PINPOINT TEST B: EVO ACTUATOR DIAGNOSIS

B9 CHECK FOR SHORT ACROSS CIRCUITS 330 AND 353

- Ignition switch in OFF position.
- EVO harness disconnected from EVO actuator valve on power steering pump.
- EVO control module disconnected from 14-pin harness connector.
- Using an ohmmeter, measure resistance across Pin 13 and Pin 14 on harness connector.

Resistance is less than 10 ohms (short)
SERVICE wires. GO to «A1» .

Resistance is over 1000 ohms
REPLACE EVO control module.