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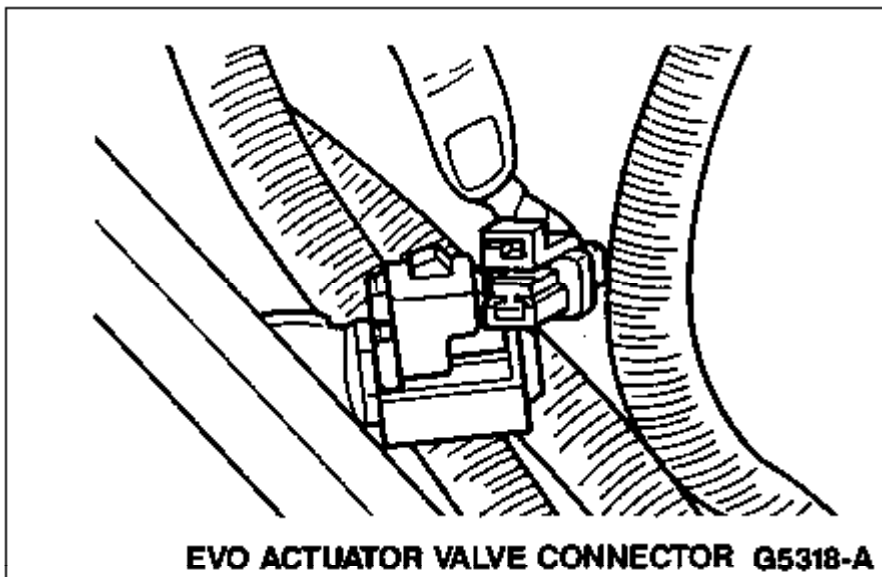
« DIAGNOSIS AND TESTING »

Print Diagnostic Routine

PINPOINT TEST A: STEERING SYSTEM DIAGNOSIS

A1 CHECK CONNECTIONS

- Verify harness connector at EVO actuator valve on power steering pump is seated.
- Verify harness connector on EVO control module is seated (located in luggage compartment).
- Is connector seated properly?



No

MAKE proper connection. GO to «A2».

Yes

GO to «A2».



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PINPOINT TEST A: STEERING SYSTEM DIAGNOSIS

A2 CONTROL MODULE CHECK

- Turn ignition switch to OFF position.
- Locate service diagnostic connector in the luggage compartment behind RH side quarter panel carpet.
- Connect the EVO system tester to jumper and to the service connector in the luggage compartment.
- Start engine. When engine starts, the controller will turn on the diagnostic lamp for one second to indicate:
 - Control module is functional
 - Tester is functional

Lamp is turned on for one second

GO to «[A3](#)».

Lamp does NOT turn on

GO to «[E1](#)».

Lamp flickers

GO to «[E1](#)».



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A3 ACTUATOR OUTPUT CIRCUIT CHECK

- After the one second control module check, the controller will perform the Actuator Output Test. If there is a short to ground or an open circuit, after two seconds delay, the diagnostic lamp will flash a "code 6" (on for 0.5 seconds and off for 0.5 seconds, 6 times) then delay two seconds and repeat continuously until the power is turned off. During this "failure mode" the controller output will be off and both speed and steering wheel rotation inputs will be disabled. Once this "failure mode" has occurred, the controller will be inoperable until power is removed and reapplied.

Lamp flashes a "code 6" (on for 0.5 seconds and off for 0.5 seconds, 6 times) then delays two seconds and repeats

Go to «[B1](#)».

After the two second delay lamp does not flash a "code 6" (Actuator output circuit is OK)

GO to «[A4](#)».



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A4 STEERING WHEEL SENSOR CHECK

- Start engine (transmission in PARK).
- Vehicle speed: zero km/h (mph)
- Turn steering wheel from lock to lock. The steering wheel must be rotated in one direction at least 220 degrees.
- **Does diagnostic lamp turn on after sufficient wheel rotation?**

Yes

GO to «[A5](#)».

No

GO to «[C1](#)».



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A5 VEHICLE SPEED SENSOR CHECK

- Start engine.
- Steering wheel rate: 0 rpm
- Operate vehicle on road and apply vehicle speed of greater than 24 km/h (15 mph).
- **Does diagnostic lamp turn on for all speeds greater than 24 km/h (15 mph)?**

Yes

GO to «A6».

No

GO to «D1».



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A6 VEHICLE SPEED SENSOR CHECK

- Reduce vehicle speed to below 16 km/h (10 mph)
- Does diagnostic lamp turn off when speed is below 16 km/h (10 mph)?

Yes

Electrical portion of system is functioning. GO to «[A7](#)».

No

GO to «[D1](#)» .



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A7 SERVICE POWER STEERING

- Refer to Service Procedures.
- Perform Pump Flow and Pressure Tests.
- **Are concerns found?**

Yes

Vehicle service complete.

No

REPLACE as required.
