

### C1 CHECK STEERING WHEEL SENSOR CONNECTION

- Verify harness connection on steering wheel rotation sensor (located on lower portion of steering column) is properly seated.
- Is connector properly seated?

Yes

GO to «C2».

No

MAKE proper connection. GO to «A1».



## C2 STEERING WHEEL ROTATION SENSOR CHECK

- Ignition switch in OFF position.
- Disconnect EVO control module from 14-pin connector--located in luggage compartment. (Refer to «Removal».)
- Examine wiring harness, verify that there is no damage and
  - -- Circuit 834 is in Pin 1.
  - -- Circuit 835 is in Pin 6.
  - -- Circuit 837 is in Pin 12.

### • Are wires crossed or damaged?

### Yes

SERVICE wires as necessary. GO to «A1».

No

GO to «C3».



### C3 TEST STEERING WHEEL ROTATION SENSOR SIGNALS

- Using a jumper, connect Pin 12 to Pin 5 (connector disconnected) of the 14-pin connector.
- Start engine.
- While rotating the steering wheel slowly, and using an analog ohmmeter set to the 1K scale, measure the resistance from
  - -- Pin 1 to Pin 5
  - -- Pin 6 to Pin 5

#### NOTE:

The resistance values will vary between meters, but the needle on all meters should swing from a low to higher resistance and back approximately every nine degrees of steering wheel rotation.

• Does meter needle swing for both circuits?

Yes

SHUT off engine. REPLACE EVO control module.

No

GO to «C4».



### C4 STEERING WHEEL ROTATION SENSOR WIRE CHECK

- Ignition switch in the OFF position.
- Unplug steering sensor (located on lower steering column).
- Check wires at steering sensor connector for damage and/or incorrect location.
- Test continuity of Circuits 834, 835, and 837 from steering sensor to 14-pin EVO control module connector. (Refer to «System Schematic».)

# Damaged or crossed wires

SERVICE wires as necessary.

# No continuity

SERVICE wires as necessary. GO to «A1».

No concerns found GO to «C5».



## C5 CHECK FOR SHORT ACROSS CIRCUITS 834 AND 835

- Turn ignition switch to OFF position.
- Steering Sensor disconnected.
- Disconnect 14-pin connector. Measure resistance between
  - -- Pin 1 and Pin 6
  - -- Pin 1 and Pin 12
  - -- Pin 6 and Pin 12 of the 14-pin connector (in luggage compartment).

### Resistance is over 1000 ohms GO to «C6».

**Resistance is less than 10 ohms (short)** 

SERVICE wires as necessary. GO to «A1».



## C6 TEST STEERING SENSOR POWER

- Using a jumper, connect Pin 12 to Pin 5 of the 14-pin connector. (Connector disconnected.)
- Turn ignition switch to RUN position.
- Using a voltmeter, measure the voltage between Circuits 298 and 837 at the steering sensor connector.
- Is there 12 volts?

Yes

GO to «C7».

No

SERVICE Circuit 298. GO to «A1».



## C7 TEST STEERING SENSOR POWER CIRCUIT

- Remove jumper from Pin 12 to Pin 5 and connect 14-pin connector.
- Using a voltmeter, measure the voltage between Circuits 298 and 837 at the steering sensor connector.
- Is there 12 volts?
  - Yes

REPLACE steering sensor.

#### No

REPLACE control module.