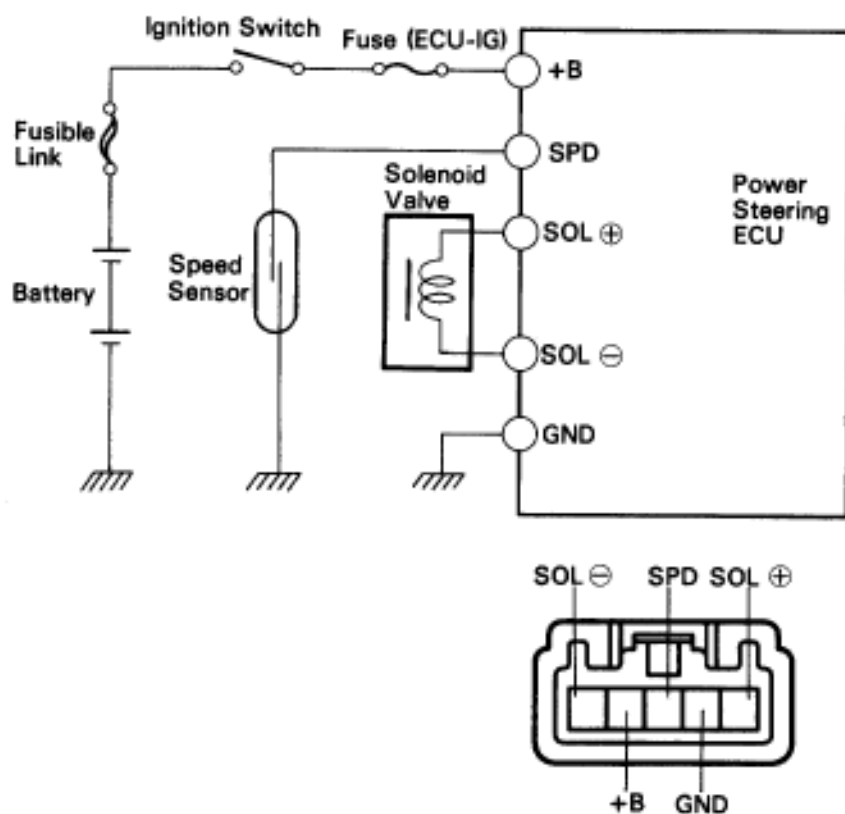
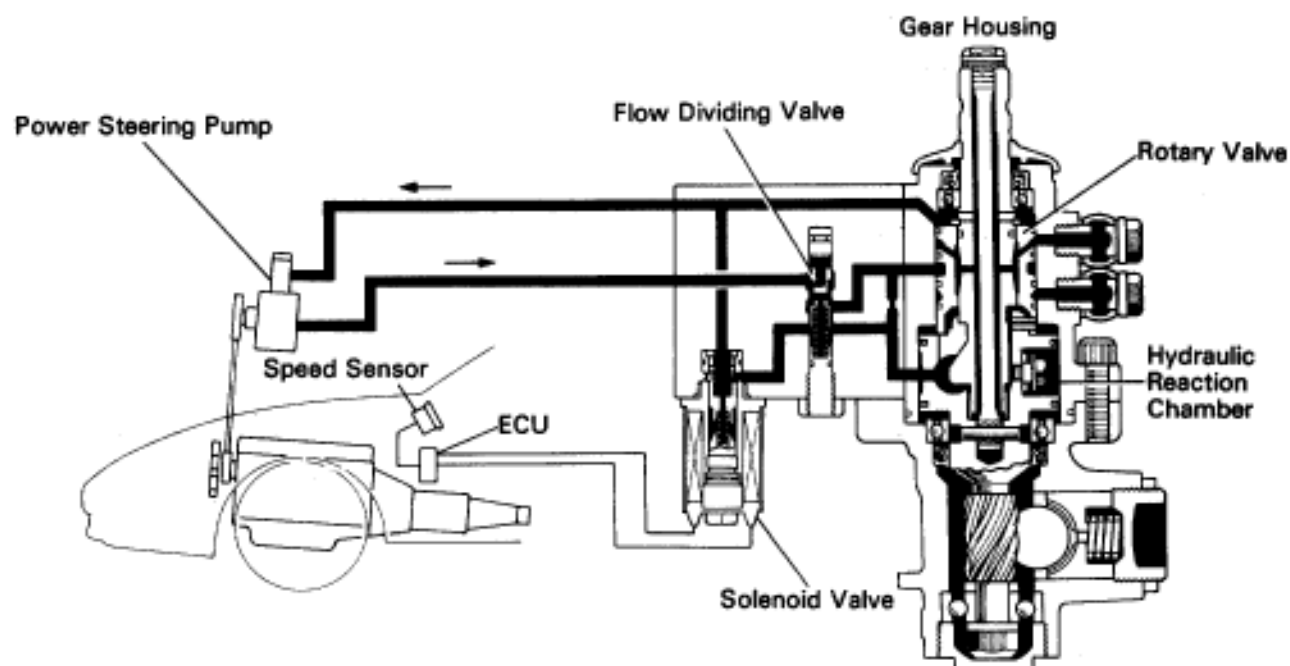


## Electronic Control System PRECAUTION

Do not open the cover or the case of the ECU and various computers unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

## ELECTRONIC CIRCUIT



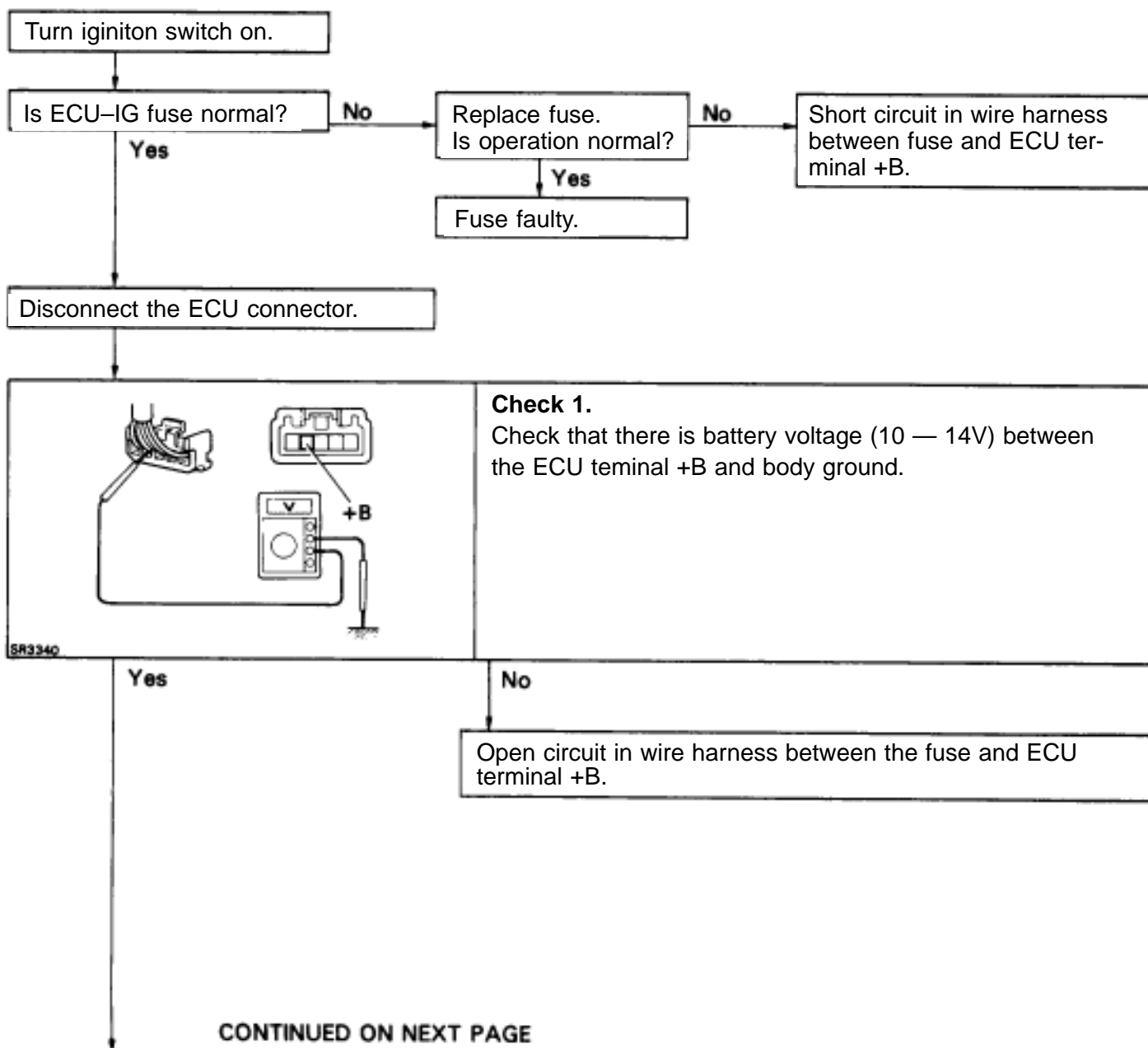
## TROUBLESHOOTING FLOW-CHART

### Trouble

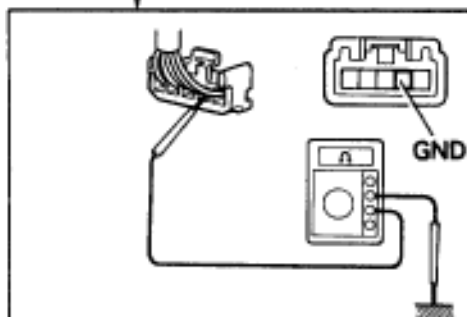
- Hard steering at idle or low-speed driving.
- Steering too sensitive during high-speed driving.

### Preliminary Check

- Check tire pressure.
- Check lubrication of suspension and steering linkage.
- Check front wheel alignment.
- Check steering system joint and suspension arm ball joint.
- Check for bent steering column.
- Check that all connectors are secure.
- Check PS pump fluid pressure. (See page [SR-80](#))



Yes CONTINUED FROM PREVIOUS PAGE



SR3341

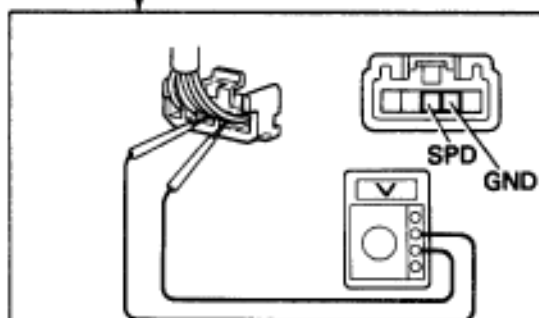
**Check 2.**

Check that there is continuity between the ECU terminal and body ground.

Yes

No

- Open circuit in wire harness between the ECU terminal GND and body ground.
- Body ground faulty.



SR3342

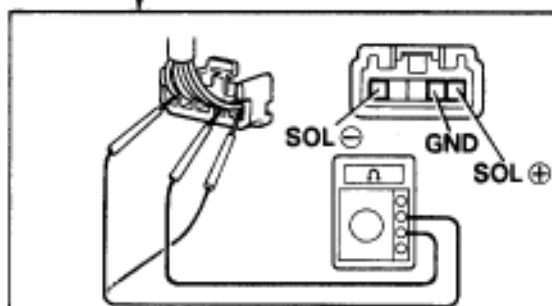
**Check 3.**

- Jack up the rear wheel on one side.
- Connect a voltmeter between the ECU connector terminals SPD and GND.
- Spin the rear wheel and check that the meter needle deflects 0V → 5V or more → 0V.

Yes

No

- Open or short circuit in wire harness between the ECU terminal SPD and speed sensor.
- Speed sensor faulty (see page BE-110).



SR3371

**Check 4.**

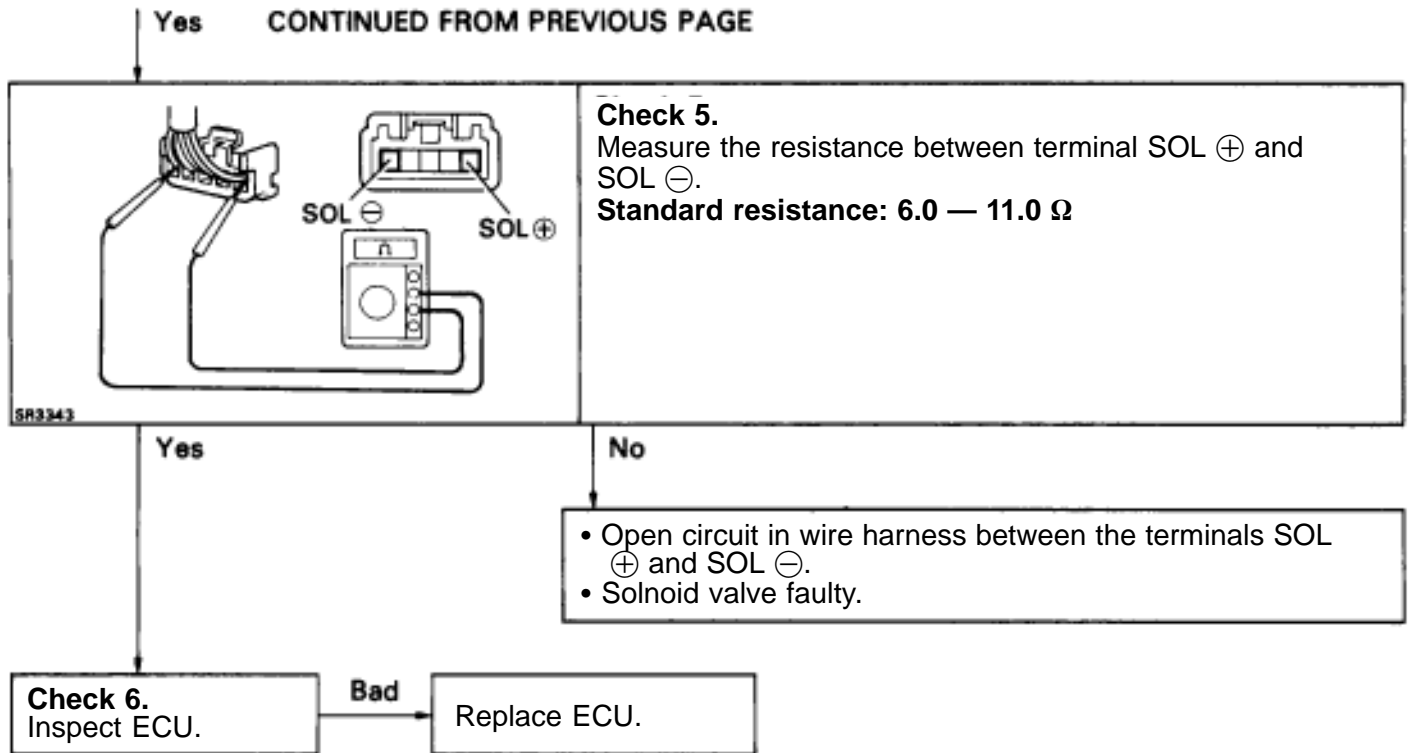
- Check that there is no continuity between terminals SOL ⊕ and SOL ⊖ and GND.

Yes

No

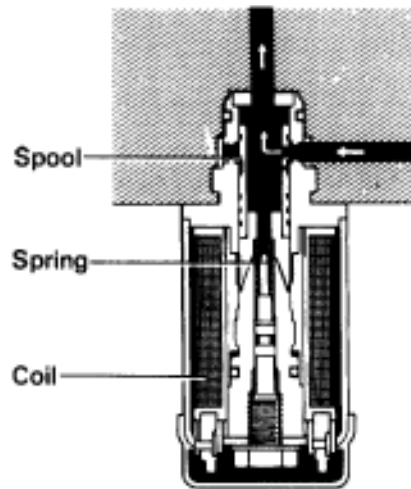
- Short circuit in wire harness between the terminals SOL ⊕ and SOL ⊖.
- Solenoid valve faulty.

CONTINUED ON NEXT PAGE

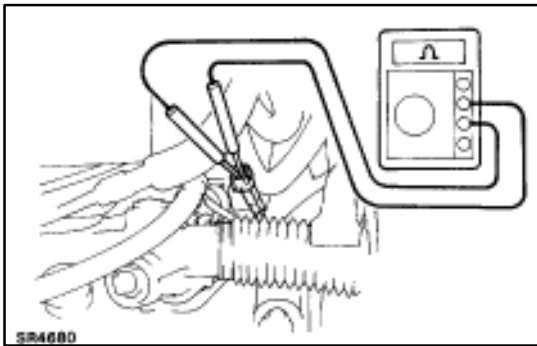


## INSPECTION OF ELECTRONIC CONTROL COMPONENTS

### Solenoid Valve



SR3436



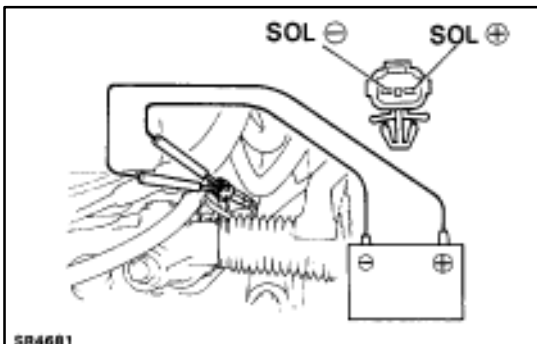
SR4680

#### 1. DISCONNECT WIRING CONNECTOR

#### 2. MEASURE RESISTANCE

Measure the resistance between SOL ⊕ and SOL ⊖.

Resistance: 6.0–11.0 Ω



SR4681

#### 3. CHECK SOLENOID OPERATION

(a) Connect the battery positive terminal to the solenoid terminal SOL ⊕.

(b) Connect the battery negative terminal to the solenoid terminal SOL ⊖.

(c) Check that the solenoid is clicked.

If faulty, replace the pressure control valve with the solenoid valve.

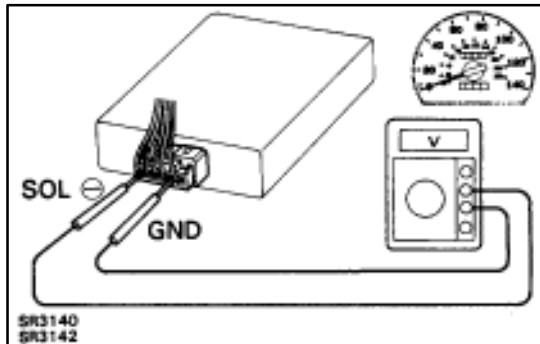
#### NOTICE:

- Do not apply voltage for more than 30 seconds to avoid burning out the solenoid.
- If repeating this step, wait until the solenoid cools down enough that it can be touched by hand.

#### 4. CONNECT WIRING CONNECTOR

## Power Steering ECU

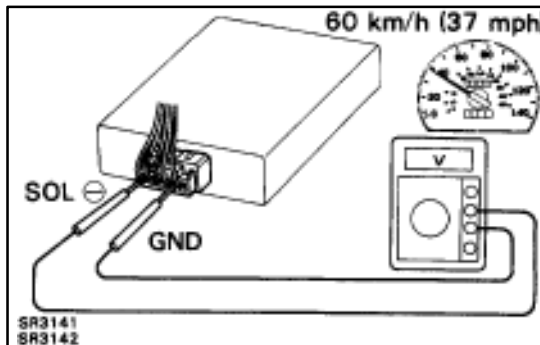
1. JACK UP VEHICLE AND SUPPORT IT ON STANDS
2. START ENGINE



3. MEASURE VOLTAGE OF ECU

- (a) Using a voltmeter, measure the voltage between ECU terminals SOL  $\ominus$  and GND while the engine is idling.

**Standard voltage: 0.3 — 0.5 V**



- (b) Place the transmission in gear and while running at about 60 km/h (37 mph), measure the voltage between ECU terminals SOL  $\ominus$  and GND.

**Standard voltage: Voltage measured in (a) above,  
minus 0.07 — 0.2 V**

If no voltage, try another ECU.

4. LOWER VEHICLE