

Shift Solenoid Malfunction

SYSTEM DESCRIPTION

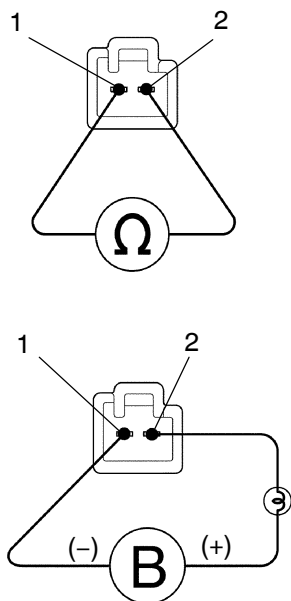
See page DI-135.

HINT:

- Start the inspection from step 1 when shift solenoid valve SL1.
- Start the inspection from step 2 when shift solenoid valve SL2.
- Start the inspection from step 3 when shift solenoid valve SLT.
- Start the inspection from step 4 when shift solenoid valve SLU.
- Start the inspection from step 5 when shift solenoid valve S1.
- Start the inspection from step 5 when shift solenoid valve S2.
- Start the inspection from step 6 when shift solenoid valve SR.

INSPECTION PROCEDURE

1 Check shift solenoid valve SL1 operation.



D12795

PREPARATION:

Remove the shift solenoid valve SL1.

CHECK:

- (a) Measure the resistance between terminals 1 and 2 of solenoid connector.

Standard: 5.0 – 5.6 Ω at 20°C (68°F)

- (b) Connect the positive (+) lead with an 21 W bulb to terminal 2 of solenoid connector and negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

Standard: Solenoid sounds operation noise.

OK:

Standard

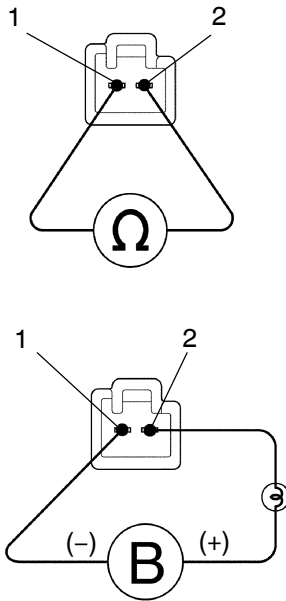
OK

Go to step 7.

NG

Replace shift solenoid valve SL1
(See page AT-8).

2 Check shift solenoid valve SL2 operation.



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PREPARATION:

- Jack up the vehicle.
- Remove the oil pan.
- Remove the shift solenoid valve SL2.

CHECK:

- Measure the resistance between terminals 1 and 2 of solenoid connector.

Standard: 5.0 – 5.6 Ω at 20°C (68°F)

- Connect the positive (+) lead with an 21 W bulb to terminal 2 of solenoid connector and negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

Standard: Solenoid sounds operation noise.

OK:

Standard

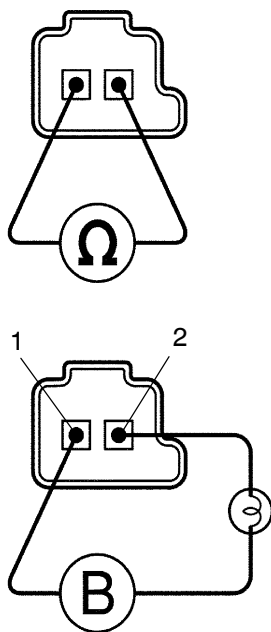
OK

Go to step 7.

NG

Replace shift solenoid valve SL2
(See page AT-8).

3 Check shift solenoid valve SLT operation.



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PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove the shift solenoid valve SLT.

CHECK:

- (a) Measure the resistance between terminals 1 and 2 of solenoid connector.

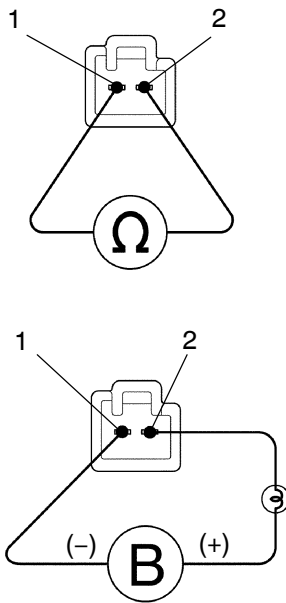
Standard: 5.0 – 5.6 Ω at 20°C (68°F)

- (b) Connect the positive (+) lead with an 21 W bulb to terminal 2 of solenoid connector and negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

Standard: Solenoid sounds operation noise.**OK:****Standard****OK****Go to step 7.****NG**

Replace shift solenoid valve SLT
 (See page AT-8).

4 Check shift solenoid valve SLU operation.



D12795

PREPARATION:

- Jack up the vehicle.
- Remove the oil pan.
- Remove the shift solenoid valve SLU.

CHECK:

- Measure the resistance between terminals 1 and 2 of solenoid connector.

Standard: 5.0 – 5.6 Ω at 20°C (68°F)

- Connect the positive (+) lead with an 21 W bulb to terminal 2 of solenoid connector and negative (–) lead to terminal 1 of the solenoid valve connector, then check the movement of the valve.

Standard: Solenoid sounds operation noise.

OK:

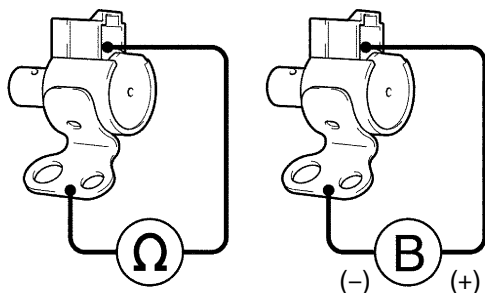
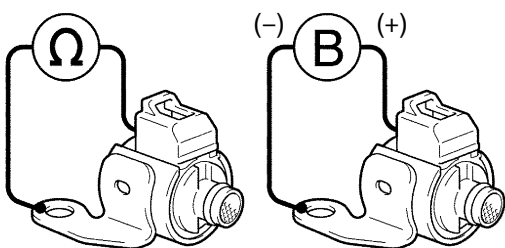
Standard

OK

Go to step 7.

NG

Replace shift solenoid valve SLU
(See page AT-8).

5 Check shift solenoid valve S1 or S2 operation.
Shift solenoid S1:

Shift solenoid S2:


D11991
D11992

D13058

PREPARATION:

- Jack up the vehicle.
- Remove the oil pan.
- Remove the shift solenoid valve S1 or S2.

CHECK:

Measure the resistance between the solenoid connector terminal and the body ground.

OK:

Resistance: 11 – 15 Ω at 20°C (68°F)

CHECK:

Connect the battery positive lead to the solenoid connector terminal and the battery negative lead to the solenoid body ground.

OK:

Solenoid sounds operation noise.

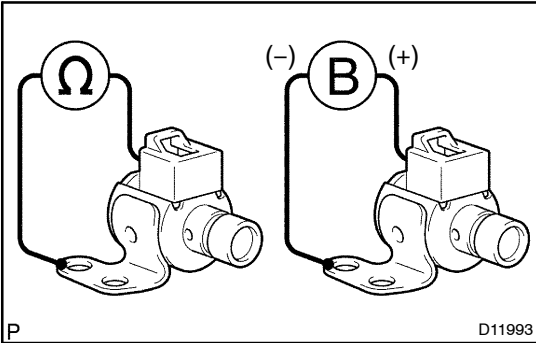
OK

Go to step 7.

NG

Replace shift solenoid valve S1 or S2
(See page AT-8).

6 Check shift solenoid valve SR operation.



PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove the shift solenoid valve SR.

CHECK:

Measure the resistance between the solenoid connector terminal and the body ground.

OK:

Resistance: 11 – 15 Ω at 20°C (68°F)

CHECK:

Connect the battery positive lead to the solenoid connector terminal and the battery negative lead to the solenoid body ground.

OK:

Solenoid sounds operation noise.

OK

Go to step 7.

NG

Replace shift solenoid valve SR
(See page AT-8).

7 Check valve body.

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Repair or replace valve body
(See page AT-8).

OK

Proceed to next circuit inspection shown on problem symptoms table
(See page DI-119).