DIAVX-01

Shift Solenoid Malfunction

SYSTEM DESCRIPTION

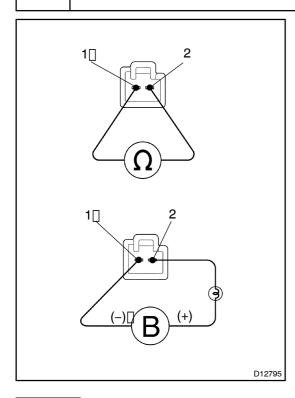
SeepageDI-135.

HINT:

- •□ Start[the[inspection[from[step[]]]] [when[shift[solenoid[]]] alve[\$L1.
- Start he inspection from \$tep 2 when \$hift solenoid valve \$L2.
- Start he inspection from \$\text{step} \text{when \$\text{hift} solenoid valve \$LT.
- Start he inspection from \$\text{solenoid} when \$\text{solenoid} valve \$\text{U}.
- Start he inspection from \$\text{step} \text{when \$\text{step} inspection from \$\text{step} \text{when \$\text{step} inspection from \$\text{step} \text{when \$\text{step} inspection from \$\text{step} in \$\te
- Start he inspection from \$\text{step} \text{when \$\text{shift}} olenoid \text{valve} 2.
- Start he inspection from \$\tep \int \when \shift \solenoid \yalve \SR.

INSPECTION PROCEDURE

1 | Check[shift[solenoid[valve[SL1[operation.



PREPARATION:

Remove the shift solenoid valve \$L1.

CHECK:

Standard: 5.0 - 5.6 Ω[at 20°C (68°F)

(b) Connect[the[positive[]+)[[pad[with[an]21][W[[pulb[tot]erminal 2[]]f[solenoid[connector[and[hegative[]-)[]]ead[]o[]]erminal 1[]f[]]he[solenoid[walve[connector,[]]]hen[check[]]he[]]novement of the valve.

Standard: Solenoid sounds operation noise.

OK:

Standard

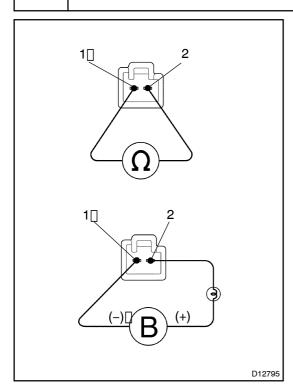
ОК

Go to step 7.

NG

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

2 | Check[shift[solenoid[valve[\$L2[operation.



PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove the shift solenoid valve \$L2.

CHECK:

(a) Measure[the] resistance between terminals and the fisolenoid connector.

Standard: $5.0 - 5.6 \Omega at 20^{\circ} C (68^{\circ} F)$

(b) Connect[the[positive[]+)[]ead[with[an[21]]V[bulb[to[terminal 2[pf[solenoid[connector[and[negative[]-)]]ead[to[terminal 1[pf[]he[solenoid[valve[connector,[]hen[check[]he[]movement[pf[]he[]valve.]

Standard: Solenoid sounds operation hoise.

OK:

Standard

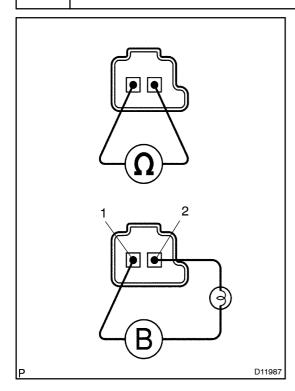
OK

Go to step 7.

NG

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

3 | Check[shift[solenoid[valve[SLT]operation.



PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove the \$\text{hift} solenoid \quad valve \$\text{\$LT.}

CHECK:

(a) Measure[the[jesistance[between[terminals]] [and[2] [bfsolenoid[bonnector.]]

Standard: 5.0 - 5.6 Ω[at[20°C[68°F]

(b) Connect[the[positive[]+)[]ead[with[an[21]]V[bulb[to[terminal 2[pf[solenoid[connector[and[negative[]-)]]ead[to[terminal 1[pf[]he[solenoid[valve[connector,[]hen[check[]he[]movement[pf[]he[]valve.]

Standard: Solenoid sounds operation hoise.

OK:

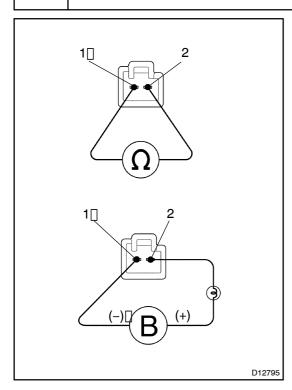
Standard

OK Go to step 7.

NG

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

4 | Check[shift[solenoid[valve[\$LU[operation.



PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove The Shift Solenoid Valve SLU.

CHECK:

(a) Measure[the] resistance between terminals and the fisolenoid connector.

Standard: 5.0 - 5.6 Ω[at[20°C[68°F]

(b) Connect[the[positive[]+)[]ead[with[an[21]]V[bulb[to[terminal 2[pf[solenoid[connector[and[negative[]-)]]ead[to[terminal 1[pf[]he[solenoid[valve[connector,[]hen[check[]he[]movement[pf[]he[]valve.]

Standard: Solenoid sounds operation hoise.

OK:

Standard

OK Go to step 7.

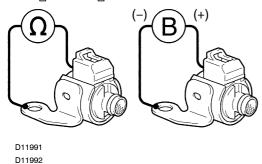
NG

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

5∏ | CI

Check \$hift solenoid valve \$1 or \$2 operation.

Shift[solenoid[\$1: O Shift[solenoid[\$2:



PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove the shift solenoid valve \$1 or \$2.

CHECK:

Measure[]the[]tesistance[between[]the[]solenoid[connector[]terminal[]and[]the[]body[]ground.

OK:

CHECK:

Connect[the[battery[bositive[]ead[to[]the[solenoid[bonnector[]erm[hal[and[]the[battery[]hegat[]ve]]ead[the[she]helsh]lenoid[body ground.

OK:

D13058

Solenoid sounds operation noise.

ок

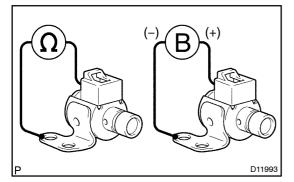
Go to step 7.

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: $11 - 15\Omega at 20^{\circ}C(68^{\circ}F)$

CHECK:

Connect[the[battery[bositive[]ead[to[]the[solenoid[bonnector[]erm[hal[and[]the[battery[]hegat[]ve]]ead[to[]the[solenoid[body ground.

OK:

Solenoid sounds operation hoise.

OK

Go to step 7.

NG

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

7

Check valve body.

NG

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

ок

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