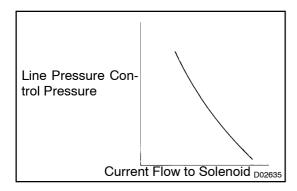
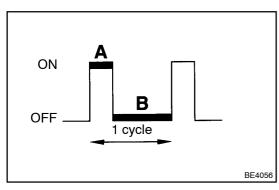
DI2LE-02

DTC

P1760/77

Linear Solenoid for Line Pressure Control Circuit Malfunction (SLT Solenoid Valve)





CIRCUIT DESCRIPTION

The throttle pressure that is applied to the primary regulator valve (which modulates line pressure) causes the SLT solenoid valve, under electronic control, to precisely and minutely modulates and generates line pressure according to the accelerator pedal effort, or engine power output detected.

This reduces the function of line pressure and provides smooth shifting characteristics.

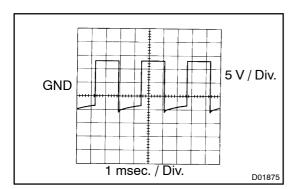
Upon receiving the throttle valve opening angle signal, Engine and ECT ECU (2UZ-FE) or ECT ECU (1HD-FTE) controls the line pressure by sending a predetermined (*) duty ratio to the solenoid valve, modulating the line pressure, generating throttle pressure.

(*) Duty Ratio

The duty ratio is the ratio of the period of continuity in one cycle. For example, if A is the period of continuity in one cycle, and B is the period of non-continuity, then

Duty Ratio =
$$\frac{A}{A+B}$$
 x 100 (%)

DTC No.	DTC Detecting Condition	Trouble Area
P1760/77	(a) or (b) condition below is detected for 1 second or more. (a) SLT ⁻ terminal: 0V (b) SLT ⁻ terminal: 12V	Open or short in SLT solenoid valve circuit SLT solenoid valve Engine and ECT ECU (2UZ-FE) ECT ECU (1HD-FTE)



Reference

Refer to the chart for the wave form between terminals SLT+ and SLT-during engine idling.

WIRING DIAGRAM

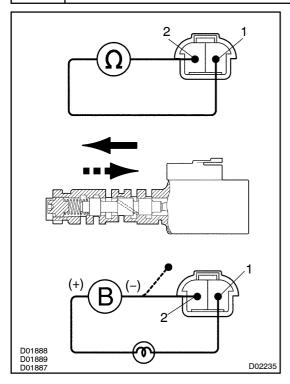
2UZ-FE Engine and ECT ECU Transmission G-W (E1 E9 SLT+ SLT Solenoid Valve О SLT-1HD-FTE **ECT ECU** Transmission SLT Solenoid Valve 0

D03981

D03396 D03975

INSPECTION PROCEDURE

1 | Check[\$LT[\$olenoid[valve.



PREPARATION:

- (a) ☐ Jack ☐ up ☐ the ☐ vehicle.
- (b) Remove the oil pan.
- (c) Disconnect he solenoid connector.

Check solenoid resistance:

CHECK:

Measure \P esistance \P etween \P eminals \P and \P of solenoid onnector.

OK:

Resistance:[5.0 -[5.6]Ω[at[20]] C[(68°F)

Check solenoid operation:

CHECK:

Connect[positive[]+)[]ead[with[an[8]-]] 0[]W[bulb[]o[]erminal[] [of solenoid[]connector[]and[]negative[]-)[]ead[]to[]erminal[]2,[]then check[]the[]movement[]off]the[]yalve.

OK:

When battery positive oltage spplied.	Valvemoves[in] direction in the flustration on the left.
When[battery[positive[voltage]]ந்டூயுடுff.	Valvemovesin ■ ■ direction in the illustration on the left.

NG

Replace[\$LT[solenoid]valve.

OK

2□

 $\label{lem:check_harness_and_connector_between_LT olenoid_valve_and_Engine_and_ECT_ECU_pr_ECT_ECU(See_page_N-35).$

NG□

Repair or replace harness or connector.

ОК

 $\label{lem:check_and_replace_engine} \begin{tabular}{ll} Check and replace Engine and ECT [ECU or ECT [ECU] See page N-35). \end{tabular}$