P0770/64 SLSOLENOID VALVE MALFUNCTION

SYSTEM DESCRIPTION

The ECM uses the signals from the throttle position sensor, Air-flow meter and crankshaft position sensor to monitor the engagement condition of the lock-up clutch.

Then the ECM compares the engagement condition of the lock-up clutch with the lock-up schedule in the ECMmemorytbdetectamechanicaltroubledftheshiftsolenoidvalveDSL,valvebodyandtorqueconverter clutch.

DTC[No.	DTC[Detection[Condition	Trouble[<u>A</u> rea
P0770/64	Lock-up@oes@ot@ccur@vhen@riving@n@ck-up@ange@normaldriving@at@0@km/h[[50@nph]]_@r@ock-up@emains@N@n@ock-up@FF@ange@2@rip@etection@ogic)	

INSPECTION PROCEDURE

HINT:

Start[]he[]nspection[]rom[step 1[]n[case[]of[]using[]he[]hand-held[]ester[and[]start[]rom[]step[]2[]n[case[]of[]hot using@hand-held@ester.

1∏ PERFORM[ACTIVE]TEST[BY[HAND-HELD]TESTER

- (a) ☐ Warm up the engine.
- (b) Turn the ignition switch OFF.
- (c) Connect he Hand-held tester of he DLC3.
- (d) Turn[the ignition[switch ON and push the iHand-held tester main[SW]ON.
- (e) Select[the[tem]'LOCK[UP"[n[the[ACTIVE]TEST[and[bperate[the[Lock-up[solenoid[valves[bn[the Hand-held tester.

NOTICE:

The values given below for Normal Condition are representative values, so a vehicle may still be normal@ven[jfi]ts[value@differs[from]those[listed[here.[Do[hot@depend[solely@on[the]"Normal[Condition"[here[when[deciding[whether[or[hot]the[part[is]faulty.

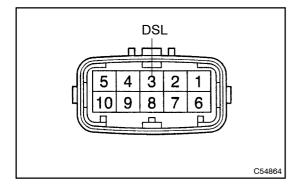
Item	Test[Details	Diagnostic[Note
LOCK UP	[Test Details] Control the shift solenoid DSL to set the ATM to the lock-up condition. [Vehicle Condition] Vehicle Speed: 58 km/h (36 mph) or more	Possible to check the DSL operation.

OK

CHECK_AND_REPLACE_ECM(See_page_01-31)

NG

2∏ INSPECT TRANSMISSION WIRE (DSL)



- (a) Disconnect the solenoid connector from he transaxle.
- (b) Measure resistance between the terminal and the body ground.

OK:

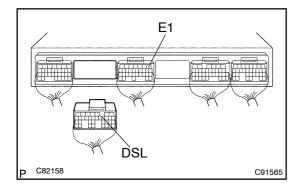
Resistance: 11 - 13 12 at 20 C (68 F)

NG[]

Go to step 4

OK

3∏ CHECK[HARNESS[AND]CONNECTOR(TRANSMISSION[WIRE - [ECM)



- (a) Connect the transmission wire connector.
- (b) ☐ Disconnect The ECM connector.
- (c) Measure the resistance between terminals DSL and E1.

OK:

Resistance: 11 - 13 12 at 20 C (68 F)

OK∏

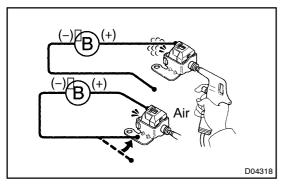
Go[to[step[4

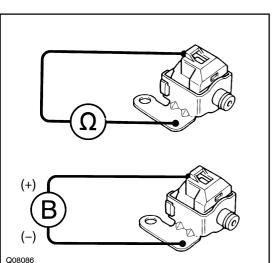
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (See page 01-31)

4∏

INSPECT[\$HIFT[\$OLENOID[VALVE[DSL





- (a) Remove the shift solenoid valve DSL.
- (b) Applying 490 kPa 5 kgf/cm 71 psi) of compressed air, check that the solenoid valve does not eak the air.

OK:

Solenoid valve does not leak air.

(c) When battery voltage supplied to the shift solenoid valve, theck that the valve pens.

OK:

Solenoid valve opens.

(d) Measure[the[]esistance[between[the[]erminal[DSL[]pf[]shift solenoid[]valve[]and[]the[]solenoid[]body.

OK:

(e) Connect[positive[]+)[]ead[]o[]he[]erminal[]of[solenoid[]connector,[]hegative[]-)[]ead[]o[]he[]solenoid[]body.

OK:

The solenoid valve makes operation noise.

NG∏

REPLACE[\$HIFT[\$OLENOID[YALVE[DSL

OK

Q08087

5 | CHECK[TRANSMISSION[WIRE(See[page[01-31)

D04319

NGĎ

REPAIR OR REPLACE TRANSMISSION WIRE (See page 40-32)

OK

6∏

INSPECT[TRANSMISSION[VALVE[BODY[ASSY

NGĎ

REPAIR OR REPLACE TRANSMISSION VALVE BODY ASSY (See page 40-35)

OK

7 | INSPECT_TORQUE_CONVERTER_CLUTCH_ASSY(See_page_40-26)

NG

REPLACE TORQUE CONVERTER CLUTCH ASSY

OK

REPAIR AUTOMATIC TRANSAXLE ASSY (See page 40-8, 40-14 or 40-20)