

DATA LIST/ACTIVE TEST

1. DATA LIST

HINT:

Using the Intelligent Tester II Data List allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the Data List early in troubleshooting is one way to shorten labor time.

NOTICE:

In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

- Warm up the engine.
- Turn the ignition switch off.
- Connect the Intelligent Tester II to the DLC3.
- Turn the ignition switch to the ON position.
- Turn on the tester.
- Select the item "Enter / Diagnosis / OBD-MOBD / Powertrain / Engine and ECT / Data List".
- Follow the instructions on the tester and read the Data List.

Item	Measurement Item/ Range (display)	Normal Condition	Diagnostic Note
Stop Light Switch	Stop Light SW Status/ ON or OFF	<ul style="list-style-type: none"> Brake Pedal is depressed: ON Brake Pedal is released: OFF 	–
Neutral Position SW Signal	PNP SW Status/ ON or OFF	Shift lever position is; P and N: ON Except P and N: OFF	When the shift lever position displayed on the hand-held tester differs from the actual position, adjustment of the PNP switch or the shift cable may be incorrect. HINT: When the failure still occurs even after adjusting these parts, see page 05-836 .
Shift SW Status (L Range)	PNP SW Status/ ON or OFF	Shift lever position is; L: ON Except L: OFF	↑
Shift SW Status (2 Range)	PNP SW Status/ ON or OFF	Shift lever position is; 2: ON Except 2: OFF	↑
Shift SW Status (R Range)	PNP SW Status/ ON or OFF	Shift lever position is; R: ON Except R: OFF	↑
Shift SW Status (D Range)	PNP SW Status/ ON or OFF	Shift lever position is; D: ON Except D: OFF	↑
Overdrive Cut Switch #2	O/D SW Status/ ON or OFF	<ul style="list-style-type: none"> IG SW ON: ON ↓ O/D SW Push: OFF ↓ O/D SW Push: ON 	–
Shift Status	Actual Gear position/ 1st, 2nd, 3rd, 4th (O/D)	Shift lever position is; <ul style="list-style-type: none"> L: 1st 2: 1st or 2nd D(O/D OFF): 1st, 2nd or 3rd D(O/D ON): 1st, 2nd, 3rd or 4th (O/D) 	–
Lock Up Solenoid Status	Lock Up Solenoid Status/ ON or OFF	<ul style="list-style-type: none"> Lock Up: ON Except Lock Up: OFF 	–

SLT Solenoid Status	Shift Solenoid SLT Status/ ON or OFF	<ul style="list-style-type: none"> • Accelerator pedal is depressed: OFF • Accelerator pedal is released: ON 	–
A/T Oil Temperature 1	ATF Temp. Sensor Value/ min.: –40°C (–40°F) max.: 215°C (419°F)	<ul style="list-style-type: none"> • After Stall Test; Approx. 80°C (176°F) • Equal to ambient temperature when the engine is cold 	If the value is "–40°C (–40°F)" or "215°C (419°F)", ATF temp. sen- sor circuit is opened or shorted.
SPD (NC)	Counter Gear Speed/ display: 50 r/min	<p>[HINT] 4th (O/D) when shift lever position is D position (After warming up the engine);</p> <ul style="list-style-type: none"> • Intermediate shaft speed (NC) becomes close to the engine speed. 	–
Kick Down Switch Status *1	Kick down SW Status/ ON or OFF	<ul style="list-style-type: none"> • Accelerator Pedal is depressed all the way down: ON • Accelerator Pedal is released: OFF 	–

HINT:

*1: LHD

2. ACTIVE TEST

HINT:

Performing the Intelligent Tester II Active Test allows relay, Vacuum Switching Valve (VSV), actuator and other items to be operated without removing any parts. Performing the Active Test early in troubleshooting is one way to shorten labor time. The Data List can be displayed during the Active Test.

- (a) Warm up the engine.
- (b) Turn the ignition switch off.
- (c) Connect the Intelligent Tester II to the DLC3.
- (d) Turn the ignition switch to the ON position.
- (e) Turn on the tester.
- (f) Select the item "Diagnosis / OBD-MOBD / Powertrain / Engine and ECT / Active Test".
- (g) Follow the instructions on the tester and read the Active Test.

Item	Test Details	Diagnostic Note
Control the Shift Position	[Test Details] Operate the shift solenoid valve and set the each shift position by yourself. [Vehicle Condition] Less than 50 km/h (31 mph) [Others] • Press \rightarrow button: Shift up • Press \leftarrow button: Shift down	Possible to check the operation of the shift solenoid valves.
Control the Lock Up	[Test Details] Control the shift solenoid DSL to set the automatic transaxle to the lock-up condition. [Vehicle Condition] Vehicle Speed: 58 km/h (36 mph) or more	Possible to check the DSL operation.
Control the Line Pressure Up*	[Test Details] Operate the shift solenoid SLT and raise the line pressure. [Vehicle Condition] • Vehicle stopped. • IDL: ON [HINT] OFF: Line pressure up when the active test of "LINE PRESS UP" is performed, the ECM commands the SLT solenoid to turn off. ON: No action (normal operation)	—

*: "Control the Line Pressure Up" in the ACTIVE TEST is performed to check the line pressure changes by connecting the SST to the automatic transmission, which is used in the HYDRAULIC TEST (see page 05-760) as well.

HINT:

The pressure values in ACTIVE TEST and HYDRAULIC TEST are different from each other.