

DATA LIST/ACTIVE TEST**1. DATA LIST****HINT:**

According to the DATA LIST displayed by the OBD II scan tool or hand-held tester, you can read the value of the switch, sensor, actuator and so on without parts removal. Reading the DATA LIST as the first step of troubleshooting is one method to shorten labor time.

- (a) Warm up the engine.
- (b) Turn the ignition switch off.
- (c) Connect the OBD II scan tool or hand-held tester to the DLC3.
- (d) Turn the ignition switch to the ON position.
- (e) According to the display on tester, read the "DATA LIST".

Item	Measurement Item/ Display (position)	Normal Condition	Diagnostic Note
STOP LIGHT SW	Stop light SW Status/ ON or OFF	<ul style="list-style-type: none"> • Brake Pedal is depressed: ON • Brake Pedal is released: OFF 	–
PNP SW [NSW]	PNP SW Status/ ON or OFF	Shift lever position is; P or N: ON Except P or N: OFF	The shift lever position and these values are different, there are failures of the PNP switch or shift cable adjustment. HINT: When the failure still occurs even after adjusting these parts, See page 05-398 .
REVERSE	PNP SW Status/ ON or OFF	Shift lever position is; R: ON Except R: OFF	
DRIVE	PNP SW Status/ ON or OFF	Shift lever position is; D: ON Except D: OFF	
2ND	PNP SW Status/ ON or OFF	Shift lever position is; 2: ON Except 2: OFF	
LOW	PNP SW Status/ ON or OFF	Shift lever position is; L: ON Except L: OFF	
SHIFT	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 SOL	Lock Up Solenoid Status/ ON or OFF	<ul style="list-style-type: none"> • Lock Up: ON • Except Lock Up: OFF 	–
SOLENOID (SLT)	Shift Solenoid SLT Status/ ON or OFF	IG SW ON: ON	–
OVERDRV CUT SW1	O/D SW Status/ ON or OFF	<ul style="list-style-type: none"> • IG SW ON: ON <li style="text-align: center;">↓ • O/D SW Push: OFF <li style="text-align: center;">↓ • O/D SW Push: ON 	–

2. ACTIVE TEST

HINT:

Performing the ACTIVE TEST using the hand-held tester allows the relay, VSV, actuator and so on to operate without parts removal. Performing the ACTIVE TEST as the first step of troubleshooting is one method to shorten labor time.

It is possible to display the DATA LIST during the ACTIVE TEST.

- (a) Warm up the engine.
- (b) Turn the ignition switch off.
- (c) Connect the hand-held tester to the DLC3.
- (d) Turn the ignition switch to the ON position.
- (e) According to the display on tester, perform the "ACTIVE TEST".

Item	Test Details	Diagnostic Note
SHIFT	[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 → button: Shift up • Press ← button: Shift down	Possible to check the operation of the shift solenoid valves.
LOCK UP	[Test Details] Control the shift solenoid SL to set the ATM to the lock-up condition. [Vehicle Condition] Vehicle Speed: 58 km/h (36 mph) or more	Possible to check the SL operation.
TIMING SOL	[Test Details] Operate the shift solenoid ST. [Vehicle Condition] • Vehicle Stopped. • IDL: ON	Possible to check the ST operation.
LINE PRESS UP *	[Test Details] Operate the shift solenoid SLT and raise the line pressure. [Vehicle Condition] • Vehicle Stopped. • IDL: ON [Others] OFF: Line pressure up. ON: No action (normal operation)	–

*: "LINE PRESS UP" in the ACTIVE TEST is performed to check the line pressure changes by connecting the SST to the automatic transaxle, which is used in the HYDRAULIC TEST as well.

HINT:

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