05HN4-01

DATA LIST/ACTIVE TEST

DATA[LIST 1.∏

HINT:

Using[the[Intelligent[Tester[II][Data[List[allows[switch,[sensor,[actuator[and[other[item[values[to[be[iead[without immoving any parts. Reading the Data List arry in troubleshooting is one way to shorten bortime. In owever, \\$ome intem values in ay in ot be displayed for G.C.C. \pr Australia \bound vehicles.

NOTICE:

In the table below, the values isted under Normal Condition are reference values. Do not depend solely[on[]hese[]reference[]values[]when[]deciding[]whether[]a[]part[]s[]aulty[]or[]not.

- (a) ☐ Warm up the engine.
- (b) ☐ Turn ☐ the ☐ gnition [switch [] off.
- (c) Connect he ntelligent Tester Location
- (d) Turn the ignition switch to the ON position.
- (e) Turn on the tester.
- (f) Select he tem Tenter Diagnosis DBD·MOBD Power train Engine and ECT Data List.
- (g) Follow the instructions on the tester and read the Data List.

ltem	Measurement <u>∏</u> tem/ Range <u>∏</u> display)	Normal Condition	Diagnostic[Note
Stop[]Light[]\$witch	Stop[light[\$W[\$tatus/ ON[br[DFF	Brake Pedal selepressed: ON Brake Pedal selepressed: OFF	-
Neutral[Position[\$W[\$ignal	PNP[\$W[\$tatus/ ON[or[DFF	Shift[]ever[]position[]s; P[and[N:[]ON Except[]P[and[N:[]OFF	When the shift ever 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 5-563.
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 and S: ON Except D and S: OFF	↑
Sports Mode Selection SW	Sport Mode Select SW Status/ ON or OFF	Shift lever position is; S, "+" and "-": ON Except S, "+" and "-": OFF	-
Sport Shift Up SW	Sport Shift Up SW Status/ ON or OFF	• Press continuously "+" (Up shift): ON • Release "+" (Up shift): OFF	-
Sport Shift Down SW	Sport Shift Down SW Status/ ON or OFF	Press continuously "-" (Down shift): ON Release "-" (Down shift): OFF	-
Shift Status	Actual Gear Position/ 1st, 2nd, 3rd, 4th, 5th or 6th	Shift lever position is; • D: 1st, 2nd, 3rd, 4th, 5th or 6th • S: 1st, 2nd, 3rd, 4th, 5th or 6th	-
Lock Up Solenoid Status	Lock Up Solenoid Status/ ON or OFF	Lock Up: ON Except Lock Up: OFF	-
SLT Solenoid Status	Shift Solenoid SLT Status/ ON or OFF	Accelerator pedal is depressed: OFF Accelerator pedal is released: ON	-
SLU Solenoid Status	Shift Solenoid SLU Status/ ON or OFF	Lock Up: ON Except Lock Up: OFF	-

Item	Measurement Item/ Range (display)	Normal Condition	Diagnostic Note
A/T Oil Temperature 1	ATF Temp. Sensor Value/ min.: -40°C (-40°F) max.: 215°C (419°F)	After Stall Test; Approx. 80°C (176°F) Equal to ambient temperature when cold soak	If the value is "-40°C (-40°F)" or "215°C (419°F)", ATF temp. sensor circuit is opened or shorted.
SPD (SP2)	Output shaft Speed/ min.: 0 km/h (0 mph) max.: 255 km/h (158 mph)	Vehicle stopped: 0 km/h (0 mph) [HINT] Equal to vehicle speed	-
SPD (NT)	Input Turbine Speed/ display: 50 r/min	[HINT] • Lock-up ON (After warming up the engine); Input Turbine speed (NT) equal to the engine speed. • Lock-up OFF (Idling at N position); Input Turbine speed (NT) nearly equal to the engine speed.	-
Kick Down Switch Status *1	Kick down SW Status/ ON or OFF	Accelerator Pedal is depressed all the way down: ON Accelerator Pedal is released: OFF	-
Pattern Switch Status	Pattern SW (PWR) Status/ ON or OFF	Pattern SW (PWR) push: ON Except pattern SW (PWR) push: OFF	-
Snow Switch Status	Pattern SW (ECT SNOW) Status/ ON or OFF	•IG SW ON: OFF ↓ •Pattern SW (ECT SNOW) Push: ON ↓ •Pattern SW (ECT SNOW) Push: OFF	-

HINT:

*1: Europe

2. ACTIVE TEST

HINT:

Performing[the]ntelligent_Tester_II_Active_Test_allows_Telay,_Vacuum_Switching_Valve_VSV), actuator_and other_items_To_be_perated_vithout_Temoving_any_parts. Performing_the_Active_Test_early_in_Troubleshooting is pne_way_To_shorten_abor_time. The Data_List_can_be_displayed_during_the_Active_Test.

- (a) Warm up the engine.
- (b) ☐ Turn The Tignition switch off.
- (c) Connect he intelligent Tester I do he DLC3.
- (d) Turn the ignition witch to the ON position.
- (e) Turn on the tester.
- (f) Select he item Diagnosis DBD·MOBD Power rain Engine and ECT Active Test".
- (g) Follow the instructions on the tester and read the Active Test.

Item	Test[Details	Diagnostic∏Note
Control[t he[\$hift[P osition	Test[Details] Operate[the[shift[solenoid[valve@and[set[the[each[shift[position[by[yourself. [Vehicle[Condition] •tDL:[DN •tless[than[50]km/h[31[inph) [Others] •Press[]→"[button:[Shift[up •Press]"←"[button:[Shift[down	Possible¶o[theck[the[theoretion]of the[shift[solenoid[yalves.
Control[] he[] _ock[] Jp	[Test[Details] Control[]he[shift[solenoid[SLU[]o[set[]he[automatic[]ransmission[]o[]he lock-up[sondition. [Vehicle[Condition] • Throttle[Valve[spening[angle:[]_ess[]han[35]% • Vehicle[Speed:[60[km/h[[37[]nph)]or[]nore,[and[6th[]gear	Possible[]o[check[]he[\$LU[operation.
Control[]he[]Line[]Pressure[]Jp[]*	[Test[Details] Operate[]he[shift[solenoid[SLT[and[]aise[]he[]]ine[]pressure. [Vehicle[Condition] • \formalfone \text{ine}[] \text{Stopped.} • IDL:[\text{DN} [HINT] OFF:[]_ine[]pressure[]up[]When[]he[]active[]est[]pf[]LINE[]PRESS[]up"[]s performed,[]he[]ECM[]commands[]he[]sLT[]solenoid[]o[]urn[]pff). ON: No action (normal operation)	-

^{*: &}quot;Control the Line Pressure Up" in the ACTIVE TEST is performed to check the line pressure changes by connecting[]the[\$ST[]to[]the[automatic[]ransmission,[]which[]s[]used[]n[]the[]HYDRAULIC[]TEST[](see[]page 05–532)[as[]well.

HINT:

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