

## DATA LIST/ACTIVE TEST

### DATA LIST

According to the DATA LIST displayed by the intelligent tester II, 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 work time.

- (a) Warm up the engine.
- (b) Turn the ignition switch to OFF.
- (c) Connect the intelligent tester II to DLC3.
- (d) Turn the ignition switch to ON.
- (e) Operate the intelligent tester II according to the steps on the display and select "DATA LIST".

### METER:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Speed Meter	Vehicle speed / Min.: 0 km/h (0 mph), Max.: 255 km/h (158 mph)	Almost same as actual vehicle speed (When driving)	–
Tacho Meter	Engine speed / Min.: 50 rpm, Max.: 12,750 rpm	Almost same as actual engine speed (When engine is running)	–
Fuel Gauge	Fuel input signal Min.: 1, Max.: 255	Fuel gauge indicates (F): 233 Fuel gauge indicates (3/4): 233 Fuel gauge indicates (1/2): 233 Fuel gauge indicates (1/4): 132 Fuel gauge indicates (E): 36	–
Light Rheostat	Light control rheostat / Min.: 0, Max.: 255	Light control rheostat switch is Dark (0) → Bright (255)	–
Sub Fuel Gauge	Fuel input signal Min.: 1, Max.: 255	Fuel gauge indicates (F): 204 Fuel gauge indicates (3/4): 116 Fuel gauge indicates (1/2): 23 Fuel gauge indicates (1/4): 18 Fuel gauge indicates (E): 18	–
ODO/TRIP SW	ODO/TRIP switch is ON / OFF	ON: Switch is pushed OFF: Switch is released	–
Trip Reset SW	Trip Reset switch is ON / OFF	ON: Switch is pushed OFF: Switch is released	–

### BODY No.2:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
D Seat Buckl SW	Driver seat belt buckle switch is ON / OFF	ON: Seat belt is fastened OFF: Seat belt is unfastened	–
Rheostat Vol	Light control rheostat / Min.: 0, Max.: 255	Light control rheostat switch is Dark (0) → Bright (255)	–
Brake Pad Sen	Brake pad sensor is ON / OFF	ON: Pad is too thin (Wear limit) OFF: Pad thickness is enough	–
TAil Cancel	Tail cancel switch is ON / OFF	ON: Tail cancel OFF position OFF: Tail cancel ON position	–

### BODY No.3:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Brake Pad Sen	Brake pad sensor is ON / OFF	ON: Pad is too thin (Wear limit) OFF: Pad thickness is enough	–
H-Lvl Wan Sig	Headlight level warning indicator is ON / OFF	ON: "Head Light Leveling" is displayed OFF: No displayed	–

**BODY No.4:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Fuel Lv (Main)	Fuel input signal Min.: 0 V, Max.: 5 V	Fuel gauge indicates (F): 4.5 V Fuel gauge indicates (3/4): 4.5 V Fuel gauge indicates (1/2): 4.5 V Fuel gauge indicates (1/4): 2.7 V Fuel gauge indicates (E): 0.7 V	–
Fuel Lv (Sub)	Fuel input signal Min.: 0 V, Max.: 5 V	Fuel gauge indicates (F): 4.0 V Fuel gauge indicates (3/4): 2.3 V Fuel gauge indicates (1/2): 0.5 V Fuel gauge indicates (1/4): 0.4 V Fuel gauge indicates (E): 0.4 V	–
Lugg Courtesy SW	Luggage door courtesy switch is ON / OFF	ON: Door is opened OFF: Door is closed	–
Lugg Open SW	Fuel lid condition is ON / OFF	ON: Fuel lid is opened OFF: Fuel lid is closed	–

**BODY No.5:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Washer Lvl SW	Washer level warning switch is ON / OFF	ON: Washer level is low OFF: Washer level is proper	–

**SRS AIRBAG:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Driver Buckle SW	Driver seat belt buckle switch is ON / OFF	ON: Seat belt is fastened OFF: Seat belt is unfastened	–
Passenger Buckle SW	Passenger seat belt buckle switch is ON / OFF	ON: Seat belt is fastened OFF: Seat belt is unfastened	–

**STEERING PAD:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Multi Reset SW	Multi reset switch is ON / OFF	ON: Switch is pushed (RESET) OFF: Switch is released (RESET)	–
Multi Dsp 1 SW	Multi DSP2 switch is ON / OFF	ON: Switch is pushed (DISP2) OFF: Switch is released (DISP2)	–
Multi Dsp 2 SW	Multi DSP1 switch is ON / OFF	ON: Switch is pushed (DISP1) OFF: Switch is released (DISP1)	–

**ENGINE:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Vehicle Speed	Vehicle speed / Min.: 0 km/h (0 mph), Max.: 255 km/h (158 mph)	Almost same as actual vehicle speed (When driving)	–
Engine Spd	Engine speed / Min.: 0 rpm, Max.: 16,383 rpm	Almost same as actual engine speed (When engine is running)	–
Coolant Temp	Coolant Temperature / Min.: –40°C (–40°F), Max.: 140°C (284°F)	After warming up: 80 to 95°C (176 to 203°F)	If the value is “–40°C (–40°F)” or “140°C (284°F)”, sensor circuit is open or shorted.

**ABS:**

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
(FR/FL/RR/RL) Spd	Vehicle speed / Min.: 0 km/h (0 mph), Max.: 326 km/h (202 mph)	Almost same as actual speed (When driving)	–

**ACTIVE TEST**

Performing the ACTIVE TEST using the intelligent tester II allows the meters, indicators and so on to operate without parts removal. Performing the ACTIVE TEST as the first step of troubleshooting is one way to shorten labor time.

It is possible to display the DATA LIST on intelligent tester II during the ACTIVE TEST.

- (a) Connect the intelligent tester II to DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) From the display on tester, perform the "ACTIVE TEST".

**METER:**

Item	Test Details	Diagnostic Note
Speed Meter	OFF / 0 / 40(25) / 80(50) / 120(75) / 160(99) / 180(112) / 200(124) km/h(mph)	–
Tachometer	OFF / 0rpm / 1000rpm / 2000rpm / 3000rpm / 4000rpm / 5000rpm / 6000rpm / 7000rpm	–
Fuel Gauge	OFF, Empty, 1/2, Full	–
Coolant Temp	OFF / Low / Normal / High	–
Low Fuel Warn	Indicat. Lamp FUEl (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Open Door Warn	Indicat. Lamp Door (OFF/ON)	Confirm that the vehicle is stopped and engine idling
P-belt Remind	Indicat. Lamp P-Seat Belt (OFF/ON)	Confirm that the vehicle is stopped and engine idling
D-belt Remind	Indicat. Lamp D-Seat Belt (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Oil Press Warn	Indicat. Lamp Oil (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Discharge Warn	Indicat. Lamp Charge (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Brake Warn	Indicat. Lamp Brake (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Headlight Indic	Indicat. Lamp Head (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Taillight Indic	Indicat. Lamp Tail (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Cruise Indic	Indicat. Lamp Cruise (OFF/ON)	Confirm that the vehicle is stopped and engine idling
ECT SNOW Indic	Indicat. Lamp ECR SNOW (OFF/ON)	Confirm that the vehicle is stopped and engine idling
ECT PWR Indic	Indicat. Lamp ECT PWR (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Rr FOG Indic	Indicat. Lamp Rr FOG (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Oil Level Warn	Indicat. Lamp OIL Level (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Rr Light Indic	Indicat. Lamp Rr Light (OFF/ON)	Confirm that the vehicle is stopped and engine idling
VSC Warn	Indicat. Lamp VSC (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Mil (ENGINE)	Indicat. Lamp Mil (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Low Washer Warn	Indicat. Lamp Washer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
SRS Warn	Indicat. Lamp Airbag (OFF/ON)	Confirm that the vehicle is stopped and engine idling

## DIAGNOSTICS – COMBINATION METER

Item	Test Details	Diagnostic Note
High Beam Indic	Indicat. Lamp Hi Beam (OFF/ON)	Confirm that the vehicle is stopped and engine idling
ABS Warn	Indicat. Lamp ABS (OFF/ON)	Confirm that the vehicle is stopped and engine idling
TRC OFF Indic	Indicat. Lamp TRAC (TRC) OFF (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Slip Indic	Indicat. Lamp Slip (OFF/ON)	Confirm that the vehicle is stopped and engine idling
ODO/TRIP Disp	Indicat. ODO/TRIP Disp (OFF/ON)	Confirm that the vehicle is stopped and engine idling
L-Cruise Disp	Indicat. L-Cruise Disp (OFF/ON)	Confirm that the vehicle is stopped and engine idling
L-Crs Check Ind	Indicat. Lamp L-Cruise Check (OFF/ON)	Confirm that the vehicle is stopped and engine idling
L-Crs Ready Ind	Indicat. Lamp L-Cruise Ready (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Fr FOG Indic	Indicat. Lamp Fr FOG (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Tire Press Warn	Indicat. Lamp Tire Press (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Auto Lv Indic	Indicat. Lamp Headlamp Auto Leveling (OFF/ON)	Confirm that the vehicle is stopped and engine idling
VSC OFF Indic	Indicat. Lamp VSC OFF (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Key Remnd Buzzr	Key remained buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Lgt Remnd Buzzr	Light remained buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Seat Belt Buzzr	Seat Belt buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Reverse Buzzer	Reverse buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
S Shft Rjct Buz	Sports Shift reject buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Speed Buzzer	Speed buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
Warning Buzzer	Warning buzzer (OFF/ON)	Confirm that the vehicle is stopped and engine idling
A/T Shift Lcd	A/T Shift Lcd (OFF/ON)	Confirm that the vehicle is stopped and engine idling
AFS Indic	Indicat. Lamp AFS (OFF/ON)	Confirm that the vehicle is stopped and engine idling