

## DATA LIST / ACTIVE TEST

### 1. DATA LIST

#### HINT:

Using the DATA LIST displayed on the intelligent tester, you can read the value of the switch, sensor, actuator, etc. without removing any parts. Reading the DATA LIST as the first step in troubleshooting is one of the methods to shorten labor time.

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) According to the display on the tester, read the "DATA LIST".

#### BODY (Multiplex Network Body ECU):

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
ACC SW	ACC SW signal/ON or OFF	ON: Ignition key is in ACC, ON or START position OFF: Ignition key is in OFF position	-
IG SW	IG SW signal/ON or OFF	ON: Ignition key is in ON or START position OFF: Ignition key is in OFF or ACC position	-
D DOR CTY SW	Driver's door courtesy SW signal/ ON or OFF	ON: Driver's door is open OFF: Driver's door is closed	-
P DOR CYT SW	Passenger's door courtesy SW signal/ON or OFF	ON: Front passenger's door is open OFF: Front passenger's door is closed	-
Rr DOR CTY SW	Rear door courtesy SW signal/ ON or OFF	ON: Either right or left rear door is open OFF: Both the right and left doors are closed	-
P LOCK POS SW	Front passenger's door lock position SW signal/ON or OFF	ON: Front passenger's door lock is in unlock position OFF: Front passenger's door lock is in lock position	-
Rr. LOCK POS SW	Rear door lock position SW signal/ON or OFF	ON: Rear door lock is in unlock position OFF: Rear door lock is in lock position	-
DIMMER SW	Headlight dimmer SW signal/ON or OFF	ON: Headlight dimmer switch is in HI or FLASH position OFF: Headlight dimmer switch is in LO position	-
HIGH FLASHER SW	Headlight dimmer SW signal/ON or OFF	ON: Headlight dimmer switch is in FLASH position OFF: Headlight dimmer switch is in except FLASH position	-
F FOG LIGHT SW	Front fog light SW signal/ON or OFF	ON: Front fog light switch is ON position OFF: Front fog light switch is OFF position	-
AUTO LIGHT SW	Auto light SW signal/ON or OFF	ON: Headlight dimmer switch is in AUTO position OFF: Headlight dimmer switch is in except AUTO position	-
HEAD LIGHT SW	Head light control SW signal/ON or OFF	ON: Light control switch is in HEAD position OFF: Light control switch is in except HEAD position	-

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
TAIL LIGHT SW	Taillight SW signal/ON or OFF	ON: Light control switch is in TAIL or HEAD position OFF: Light control switch is in OFF position	-
ILLUMINATE RATE	Illuminate rate/ON or OFF	ON: Illuminate rate ON OFF: Illuminate rate OFF	-
D LOCK POS SW	Driver's door lock position SW signal/ON or OFF	ON: Door lock is in unlock position OFF: Door lock is in lock position	-
LIGHTING TIME	Lighting time/7.5 s, 15 s or 30 s	Customized value will be displayed.	-
ILLUMI SYSTEM	Illumination system/ON or OFF	ON: Illumination operation is ON OFF: Illumination operation is OFF	-
LIGHT CONTROL	Light control/ON or OFF	ON: Light control system is ON OFF: Light control system is OFF	-
I/L ON/ACC OFF	Light the I/L when ACC OFF/ON or OFF	Customized value will be displayed.	-
I/L ON/UNLOCK	Interior light ON w/unlock/ON or OFF	Customized value will be displayed.	-
LIGHT CTRL TYPE	Light control type/CRNT or OLD	Customized value will be displayed.	-
LIGHT OFF DELAY	Light auto OFF delay/OFF, 30 s, 60 s, 90 s	Customized value will be displayed.	-

**BACK-DOOR (Back Door ECU):**

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
COURTESY SW	Back door courtesy SW signal/ON or OFF	ON: Back door is open OFF: Back door is closed	-

**AFS (AFS ECU):**

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
AFS OFF SW	AFS OFF SW/ON or OFF	ON: AFS OFF switch ON OFF: AFS OFF switch OFF	-
SHIFT POSITION-R	Transmission position R signal/ON or OFF	ON: Shift position is R OFF: Shift position is except R	-
SHIFT POSITION-N	Transmission position N signal/ON or OFF	ON: Shift position is N OFF: Shift position is except N	-
GENERATOR SIG	Generator signal/ON or OFF	ON: Engine is running OFF: Engine is stopped	-
HEADLIGHT SIG	Headlight signal/ON or OFF	ON: Light control switch is HEAD OFF: Light control switch is except HEAD	-
HEAD AUTO SIG	Headlight auto signal/ON or OFF	ON: Automatic light control system operated OFF: Automatic light control system stopped	-
+B	Battery voltage value/0 to 20 V	Condition sign can be displayed	-
HEIGHT SENS VOL	Height sensor power supply value/0 to 5 V	Condition sign can be displayed	-
FR HEIGHT SENS	Front height sensor signal value/0 to 5 V	Condition sign can be displayed	-
RR HEIGHT SENS	Rear height sensor signal value/0 to 5 V	Condition sign can be displayed	-
STEER SENS SIG	Steering sensor signal value/-256° to +255°	Condition sign can be displayed	-

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
STR CENTER POS	Steering sensor center position/ -256° to +255°	Condition sign can be displayed	-

## 2. ACTIVE TEST

### HINT:

Performing the ACTIVE TEST using the intelligent tester allows the relay, VSV, actuator, etc. to operate without removing any part. Performing the ACTIVE TEST as the first step of troubleshooting is one of the methods to shorten labor time. The DATA LIST can be displayed during the ACTIVE TEST.

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

### BODY (Multiplex Network Body ECU):

Item	Test Details	Diagnostic Note
HAZARD	Turn Hazard light flasher relay ON/OFF	-
F FOG LIGHT RLY	Turn Front fog light relay ON/OFF	-
HEAD LIGHT	Turn Headlight relay ON/OFF	-
HEAD LIGHT (HI)	Turn Headlight dimmer relay (Headlight dimmer switch HI position) ON/OFF	-
TAIL LIGHT	Turn Tail light relay ON/OFF	-
DRL RELAY	(Test Details) Turn daytime running light relay ON/OFF (Vehicle Condition) Ignition SW is ON, engine is stopped and light control SW is in OFF position.	-
DIMMER SIG	Turn Dimmer relay ON/OFF	-
ILLUMI OUTPUT	(Test Details) Turn Interior light and Key illumination ON/OFF (Vehicle Condition) Interior light SW is in door position and all doors are closed	-
CONSOLE LIGHT	Center console illumination ON/OFF	-
STEP LIGHT	Step light and inside handle illumination ON/OFF	-

### BACK-DOOR (Back Door ECU):

Item	Test Details	Diagnostic Note
COURTESY SW SIG	Courtesy switch signal ON/OFF	-

### AFS (AFS ECU):

Item	Test Details	Diagnostic Note
LEVEL CONTROL MTR	Drive the leveling motor UP/OFF	-
LEVEL CONTROL MTR	Drive the leveling motor DOWN/OFF	-
SWIVEL MTR (RH)	Drive the swivel motor RIGHT/OFF	-
SWIVEL MTR (LH)	Drive the swivel motor LEFT/OFF	-
AFS OFF IND	AFS OFF indicator light ON/OFF	-