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 parts removal. Reading the DATA LIST as the first step of troubleshooting is one way to shorten the labor time.

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Read the DATA LIST according to the display on the tester.

Power back door ECU

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
HALF LATCH SW	Back door lock half-latch switch signal / ON or OFF	ON: Back door is not completely closed OFF: Back door is closed	-
FULL LATCH SW	Back door lock full-latch switch signal / ON or OFF	ON: Back door is open OFF: Back door is closed	-
DOOR HANDLE SW	Back door opener switch signal / ON or OFF	ON: Back door opener switch is pushed OFF: Back door opener switch is not pushed	-
LOCK STATUS	Back door position switch signal / UNLOCK or LOCK	UNLOCK: Back door is unlocked LOCK: Back door is locked	-
DOOR POS-1/4	Back door position (Full close - 1/4 open) / CAUTION or OK	CAUTION: Back door position is not fully closed - 1/4 opened OK: Back door position is fully closed - 1/4 opened	*1
DOOR POS-2/4	Back door position (1/4 open - 2/4 open) / CAUTION or OK	CAUTION: Back door position is not 1/4 opened - 2/4 opened OK: Back door position is 1/4 opened - 2/4 opened	*1
DOOR POS-3/4	Back door position (2/4 open - 3/4 open) / CAUTION or OK	CAUTION: Back door position is not 2/4 opened - 3/4 opened OK: Back door position is 2/4 opened - 3/4 opened	*1
DOOR POS-OPEN	Back door position (3/4 open - full open) / CAUTION or OK	CAUTION: Back door position is not 3/4 opened - fully opened OK: Back door position is 3/4 opened - fully opened	*1
PBD SW OPEN	Power back door switch operation (Satellite switch) / 0.8s or 0.0s*2	0.8s: Satellite switch 0.8sec.-press (long press) operates power back door 0.0s*2: Satellite switch 1-press operates power back door	-
PBD BUZZ VOL	Warning buzzer volume during power back door operation / OFF, SMALL or LARGE	OFF: Warning buzzer that indicates power back door is operating does not sound SMALL: Warning buzzer that indicates power back door is operating sounds at small volume LARGE: Warning buzzer that indicates power back door is operation sounds at large volume	-
WIRELS PBD OPER	Wireless power back door switch operation (Transmitter switch operation) / 1TIME, 2TIMES, 0.8sPR or OFF	1TIME: Transmitter switch 1-press operates power back door 2TIMES: Transmitter switch 2-presses operates power back door 0.8sPR: Transmitter switch 0.8s.-press operates power back door OFF: Transmitter switch operation is disabled	-
PBD ASSIST CLS	Power back door assist-close operation / ON or OFF	ON: Back door is assist-closing OFF: Back door is opened or closed	-
PBD ASSIST OPN	Power back door assist-open operation / ON or OFF	ON: Back door is assist-opening OFF: Back door is opened or closed	-
PBD TOUCH SEN R	Power back door touch sensor RH signal / OFF, ON or OPEN	OFF: Power back door touch sensor RH is free ON: Power back door touch sensor RH is pressed OPEN: Power back door touch sensor RH is opened	-

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
PBD TOUCH SEN L	Power back door touch sensor LH signal / OFF, ON or OPEN	OFF: Power back door touch sensor LH is free ON: Power back door touch sensor LH is pressed OPEN: Power back door touch sensor LH is opened	-
PBD MAIN SW	Power back door main switch signal / ON or OFF	ON: Orange paint on the top of the switch appears OFF: Orange paint on the top of the switch does not appear	-

*1 In case that the "CAUTION" is displayed even without applying resistance in each range, there must be a foreign object caught in that range.

*2 "0.0s" appearing on the display of the intelligent tester means that a 1-press of the satellite switch operates the power back door.

2. ACTIVE TEST

HINT:

Performing the ACTIVE TEST using the intelligent tester allows you to operate the relay, VSV, actuator, etc. without parts removal. Performing the ACTIVE TEST as the first step of troubleshooting is one way to shorten the labor time. It is possible to display the DATA LIST during the ACTIVE TEST.

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Perform the ACTIVE TEST according to the display on the tester.

Back Door ECU

Item	Test Details	Diagnostic Note
LATCH RELEASE	Back door lock latch is release OFF / ON	-
PBD MOTOR	Power back door motor is operate OFF / FORWARD / REVERSE	Clutch is OFF while power back door motor is operating
PBD CLUTCH	Power back door control clutch is operate OFF / ON	Power back door motor is OFF when clutch is ON
PBD BUZZER	Power back door warning buzzer sound OFF / ON	-