

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows switch, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.

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

BACK-DOOR (Power Back Door ECU):

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
COURTESY SW	Back door lock courtesy switch signal /OFF or ON	OFF: Back door is closed ON: Back door is open	-
HALF LATCH*1 SW	Back door lock half-latch*1 switch signal /OFF or ON	OFF: Back door is closed ON: Back door is not completely closed	-
CLOSER POS SW	Back door lock closer position switch signal /OFF or ON	OFF: Back door is closed ON: Back door is opened	-
FULL LATCH SW	Back door lock full latch switch signal /OFF or ON	OFF: Back door is closed ON: Back door is opened	-
DOOR HANDLE SW	Back door opener switch (outside handle) signal /OFF or ON	OFF: Back door opener switch is not pushed ON: Back door opener switch is pushed	-
DOOR LOCK STATUS	Back door lock status signal /UNLOCK or LOCK	UNLOCK: Back door is unlocked LOCK: Back door is locked	-
PBD CLOSER SW	Power back door closer switch signal /OFF or ON	OFF: Power back door closer switch OFF ON: Power back door closer switch ON	-
DOOR POS-1/4	Back door position (Fully closed - 1/4 open) /OK or CAUTION	OK: Back door position is fully closed - 1/4 open CAUTION: Back door position is not fully closed - 1/4 open	*2
DOOR POS-2/4	Back door position (1/4 open - 2/4 open) /OK or CAUTION	OK: Back door position is 1/4 open - 2/4 open CAUTION: Back door position is not 1/4 open - 2/4 open	*2
DOOR POS-3/4	Back door position (2/4 open - 3/4 open) /OK or CAUTION	OK: Back door position is 2/4 open - 3/4 open CAUTION: Back door position is not 2/4 open - 3/4 open	*2
DOOR POS-OPEN	Back door position (3/4 open - fully open) /OK or CAUTION	OK: Back door position is 3/4 open - fully open CAUTION: Back door position is not 3/4 open - fully open	*2
PBD SW OPER	Power back door closer switch operation /0.0s*3 or 0.8s	PBD SW Open 0.0s*3: Power back door closer switch 1-press operates power back door 0.8s: Power back door closer switch 0.8 sec.-press (long press) operates power back door	-

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
PBD BUZZ VOL	Warning buzzer volume during power back door operation /OFF, SMALL or LARGE	OFF: Warning buzzer that notifies power back door is operating does not sound SMALL: Warning buzzer that notifies power back door is operating sounds at small volume LARGE: Warning buzzer that notifies power back door is operating 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-press operates power back door 0.8sPR: Transmitter switch 0.8s.-press operates power back door OFF: Transmitter switch operation is disabled	-
PBD ASSIST OPN	Power back door assist-open operation /OFF or ON	OFF: Back door is opened or closed ON: Back door is opened by power assist	-
PBD TOUCH SEN R	Power back door touch sensor RH signal /OFF, ON or OPEN	OFF: Power back door touch sensor RH is idle ON: Power back door touch sensor RH is pressed OPEN: Power back door touch sensor RH is open	-
PBD TOUCH SEN L	Power back door touch sensor LH signal /OFF, ON or OPEN	OFF: Power back door touch sensor LH is idle ON: Power back door touch sensor LH is pressed OPEN: Power back door touch sensor LH is open	-
PBD MAIN*4 SW	Power back door main switch*4 signal /OFF or ON	OFF: Power back door main switch is not pushed ON: Power back door main switch is pushed	-

HINT:

- *1: RATCHET appears on the display of the intelligent tester, however, the name of the part corresponding to the display of the tester is "half-latch".
- *2: In the case where the CAUTION is displayed even without applying resistance in each range, a foreign object may get caught in that range.
- *3: "0.0s" appearing on the display of the intelligent tester means that a 1-press of the satellite switch operates the power back door.
- *4: MAIN appears on the display of the intelligent tester, however, the name of the part corresponding to the display of the tester is "power back door main switch".

BODY (Body ECU):

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
BACK DOR OPEN	Back door open judgement /PROHIBIT or PERMIT	PROHIBIT: Back door is in LOCK position (prohibited from being unlatched) PERMIT: Back door is in UNLOCK position (permitted to be unlatched)	-
B DOE OPEN SW	Power back door opener/closer switch signal /ON or OFF	ON: Power back door opener/closer switch is pushed OFF: Power back door opener/closer switch is not pushed	-

2. PERFORM ACTIVE TEST**HINT:**

Performing the intelligent tester's ACTIVE TEST allows relay, VSV, actuator, and other items to be operated without removing any parts. Performing the ACTIVE TEST early in troubleshooting is one way to save time. The DATA LIST can be displayed during the ACTIVE TEST.

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

BACK-DOOR (Power Back Door ECU):

Item	Test Details	Diagnostic Note
LATCH RELEASE	Back door lock latch is released OFF/ON	-
PBD MOTOR	Power back door motor is in operation OFF/FORWARD/REVERSE	Clutch is OFF while power back door motor is in operation
PBD CLUTCH	Power back door clutch is in operation OFF/ON	Power back door motor is OFF when clutch is ON
PBD BUZZER	Power back door buzzer sound OFF/ON	Buzzer sounds once for 0.5 sec.

BODY (Body ECU):

Item	Test Details	Diagnostic Note
TRUNK/BDOR OPEN	Operate back door open OFF/ON	-
DOOR LOCK	Operate door lock motor for all doors OFF/LOCK/UNLOCK	All doors are closed