

PRE-CHECK

1. USING HAND-HELD TESTER

- Hook up the hand-held tester to the DLC3.
- Monitor the ECU data by following the prompts on the tester screen.

HINT:

Hand-held tester has a "Snapshot" function which records the monitored data.

Please refer to the hand-held tester operator's manual for further details.

2. DTC CLEAR

The DTCs and frozen frame data will be erased by either action.

Operate the hand-held tester to erase the codes.

3. DATA LIST

HINT:

According to the DATA LIST displayed by the hand-held tester, you can read the value of the switch, sensor, actuator and so on without parts removal. Reading the DATA LIST as a first step of troubleshooting is one of the methods to shorten the labor time.

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON.
- According to the display on tester, read the "DATA LIST".

Power window master switch:

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
P/W AUTO SW	D door P/W auto switch	ON: D door P/W auto switch is ON position OFF: D door P/W auto switch is OFF position	–
P P/W AUTO SW	P door remote P/W auto switch	ON: P door remote P/W auto switch is ON position OFF: P door remote P/W auto switch is OFF position	–
RR P/W AUTO SW	RR door remote P/W auto switch	ON: RR door remote P/W auto switch is ON position OFF: RR door remote P/W auto switch is OFF position	–
RL P/W AUTO SW	RL door P/W auto switch	ON: RL door P/W auto switch is ON position OFF: RL door P/W auto switch is OFF position	–
LIMIT SW	Jam protection limit switch	ON: Jam protection limit switch is ON position OFF: Jam protection limit switch is OFF position	–
GLASS POS-1/4	Glass position (Fully close – 1/4open)	OK: CAUTION:	–
GLASS POS-2/4	Glass position (1/4 – 2/4open)	OK: CAUTION:	–
GLASS POS-3/4	Glass position (2/4 – 3/4open)	OK: CAUTION:	–
GLASS POS-OPEN	Glass position (3/4 – Fully open)	OK: CAUTION:	–
UP/DOOR KEY	Door key linked P/W UP	NOT AVL: AVAIL:	–
DOWN/DOOR KEY	Door key linked P/W DOWN	NOT AVL: AVAIL:	–
LOCK POS SW	Door unlock detection switch	ON: Door unlock detection switch is ON position OFF: Door unlock detection switch is OFF position	–

Body control ECU:

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
KEY UNLOCK WRN SW	Key unlock warning SW signal	ON: Key is IG key cylinder OFF: Key is not in IG key cylinder	–
LUGG COURTSY SW	Luggage compartment door's courtesy SW signal	ON: Luggage door is open OFF: Luggage door is close	–
D DOR CTY SW	Driver's door courtesy SW signal	ON: Driver's door is open OFF: Driver's door is close	–
P DOR CYT SW	Passenger's door courtesy SW signal	ON: Passenger's door is open OFF: Passenger's door is close	–
Rr DOR CTY SW	Rear door courtesy SW signal	ON: Either right or left rear door is open OFF: Both the right and left doors are closed.	–
DOR KEY SW-LOCK	Door key switch lock side	ON: Door key switch is lock position OFF: Door key switch is unlock position	–
D DOR KEY SW-UL	Driver door key switch unlock side	ON: Driver door key switch is unlock position OFF: Driver door key switch is lock position	–
P LOCK POS SW	Passenger lock position switch	ON: Passenger lock position switch is lock position OFF: Passenger lock position switch is unlock position	–
D/L SW-LOCK	Door lock switch lock side	ON: Door lock switch is lock position OFF: Door lock switch is unlock position	–
D/L SW-UNLOCK	Door lock switch unlock side	ON: Door lock switch is unlock position OFF: Door lock switch is lock position	–

4. ACTIVE TEST**HINT:**

Performing the ACTIVE TEST using the hand-held tester allows the relay, VSV, actuator and so on to operate without parts removal. Performing the ACTIVE TEST as a first step of troubleshooting is one of the methods to shorten the labor time.

It is possible to display the DATA LIST during the ACTIVE TEST.

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON.
- According to the display on tester, perform the "ACTIVE TEST".

Power window master switch:

Item	Test Details	Diagnostic Note
P/W UP/DOWN	Driver power window UP/DOWN	–

Body control ECU:

Item	Test Details	Diagnostic Note
P P/W UP/DOWN	Passenger power window UP/DOWN	–
RL P/W UP/DOWN	RL power window UP/DOWN	–
RR P/W UP/DOWN	RR power window UP/DOWN	–
DOOR LOCK	Drive the Door lock motor at all doors LOCK/UNLOCK	–