

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows switch, sensor, 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 in accordance with the display on the tester.

BODY:

Item	Measurement Item/Display (Range)	Normal Condition	Diagnostic Note
D DOR CTY SW	Driver door courtesy switch signal/ON or OFF	ON :Driver door open OFF: Driver door closed	-
P DOR CTY SW	Front passenger door courtesy switch signal/ON or OFF	ON: Front passenger door open OFF: Front passenger door closed	-
Rr DOR CTY SW	Rear door courtesy switch signal/ ON or OFF	ON: Either right or left rear door open OFF: Both the right and left rear doors are closed	-
LUGG COURTSY SW	Back door and back window courtesy switch signal/ON or OFF	ON: Either back door or back window open OFF: Both the back door and back window are closed	-
KEY UNLK WRN SW	Unlock warning switch / ON or OFF	ON: Ignition key is inserted OFF: Ignition key is not inserted	-

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2. PERFORM ACTIVE TEST

HINT:

Performing the intelligent tester's ACTIVE TEST allows relays, VSV, actuators 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 in accordance with the display on the tester.

BODY:

Item	Test Details	Diagnostic Note
BUZZ CONT SOUND	Wireless door lock buzzer (continuous) ON/ OFF	-
BUZZ RESP SOUND	Wireless door lock buzzer (beep) ON/OFF	-
HAZARD	Turns turn signal flasher relay ON / OFF	-

ON-VEHICLE INSPECTION

1. NOTICES WHEN CHECKING

(a) Wireless door LOCK / UNLOCK function:

This function operates only when the vehicle is in its initial condition (the following 3 conditions are met).

- (1) No key is inserted into the ignition key cylinder.
- (2) All the doors are closed.
- (3) The power door lock system is functioning normally.

HINT:

- The UNLOCK function operates even when one of the doors is open.
- The UNLOCK function operates even when the key is inserted into the ignition key cylinder. However, the ignition switch must be OFF.

(b) The operating range differs depending on the situation.

- (1) The operating range differs depending on the user, the way the transmitter is held and the location.
- (2) In certain areas, the operating range will be reduced due to the vehicle body shape and the influence of the surrounding environment.
- (3) The transmitter's faint electric waves may be affected if the area has strong electric waves or noise. The transmitter's operating range may be reduced or the transmitter may not function.
- (4) When the battery weakens, the operating range is reduced or the transmitter may not function.

HINT:

If the transmitter has had prolonged exposure to direct sunlight, such as being left on the instrument panel, the battery may weaken or other problems may occur.

2. CHECK WIRELESS DOOR LOCK CONTROL FUNCTIONS

HINT:

- The switches described below transmit signals and are built into the door control transmitter.
 - The transmitter's operating range must be taken into account while checks are being made.
- (a) Make sure the vehicle is in a condition in which the wireless control functions can be operated (see above).

- (b) Check the chattering prevention function.
 - (1) When a switch is pressed, check that the corresponding operation occurs only once. When the switch is held down, check that the corresponding operation occurs only once and does not repeatedly activate. Lastly, when the switch is pressed at 1 second intervals, check that the corresponding operation activates once for each press of the switch.
- (c) Check the automatic locking function.
 - (1) When all doors are unlocked with the UNLOCK switch and none of the doors are opened or locked within 60 seconds, check that the doors are relocked automatically.
- (d) Check the switch operation fail-safe function.
 - (1) If the key is in the ignition key cylinder, check that the doors cannot be locked by the LOCK switch. However, this does not apply when the system is in recognition code registration mode.
- (e) Check the answer-back function.
 - (1) When the LOCK switch is pressed, check that the hazard warning lights flash once, the wireless door lock buzzer sounds once and all doors are locked.
 - (2) When the UNLOCK switch is pressed, check that the hazard warning lights flash twice, the wireless door lock buzzer sounds twice and all doors are unlocked.