HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
Use these procedures to troubleshoot the power door lock control system.

1	VEHICLE BROUGHT TO WORKSHOP

NEXT

2	CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK

(a) Interview the customer to confirm the trouble (See page IN-33).

NEXT

3	PROBLEM SYMPTOMS TABLE

(a) If the fault is not listed on the problem symptoms table, proceed to A.
(b) If the fault is listed on the problem symptoms table, proceed to B.

B → **Go to step 5**

A

4	PERFORM TROUBLESHOOTING IN THE FOLLOWING METHOD, DEPENDING ON MALFUNCTION SYMPTOM

(a) Terminals of ECU (See page DL-6).
(b) Operation check (See page DL-3).

5	ADJUSTMENT, REPAIR OR REPLACEMENT

NEXT

END

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OPERATION CHECK

1. CHECK FOR ELECTRICAL DOOR LOCK OPERATION

HINT:

- with Power Window:
  The door control switch is built into the master switch of the driver's door and also in the passenger's door.
- without Power Window:
  The door control switch is built into the driver's door and passenger's door.

(a) Check the basic function.

(1) Check that all the doors lock when the door control switch (for manual operation) is turned to the lock side, and all the doors unlock when turned to the unlock side.

(2) Check that all the doors lock when the driver's door lock key cylinder is turned to the lock side with the key.

(3) Check that all the doors lock when the passenger's door lock key cylinder is turned to the lock side with the key.

(4) Check that only the driver's door unlock when the driver's door lock key cylinder is turned to the unlock side with the key. Then check that all the doors unlock when the cylinder is turned to the unlock side once again within 3 seconds (2-step unlocking function).

HINT:

The 2-step unlocking function is applicable to the driver's door lock key cylinder only.

(5) Check that all the doors unlock when the passenger's door lock key cylinder is turned to the unlock side once with the key.

(b) Check the key confinement prevention function.

NOTICE:

In order to prevent the key from being confined, the inspection should be performed with the driver's door glass open.

(1) Insert the key into the ignition key cylinder.

(2) With the driver's door open, check that all the doors immediately unlock when the door lock knob on the driver's door is turned to the lock side.

(3) With the driver's door open, check that all the doors immediately unlock when the door control switch (for manual operation) is turned to the lock side.

(4) With the driver's door open, lock the driver's door by holding the driver's door lock knob in the lock side for 2 seconds or more, and then close the driver's door. At this time, check that all the doors unlock.

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(c) Check the security function.
  (1) Close all the doors with the driver's door glass open so that the door control switch (for manual operation) can be operated from the outside of the vehicle.
  (2) Pull out the key from the ignition key cylinder, open the driver's door, and close and lock the door with the door control switch (for manual operation). Under this condition, check that all the doors do not unlock when the door control switch (for manual operation) is turned to the unlock side from the outside of the vehicle.
  (3) Pull out the key from the ignition key cylinder, close and lock the driver's door by the key operation. Under this condition, check that all the doors do not unlock when the door control switch (for manual operation) is turned to the unlock side from the outside of the vehicle.
  (4) Pull out the key from the ignition key cylinder, close the driver's door and lock the door by the wireless door lock operation. Under this condition, check that all the doors do not unlock when the door control switch (for manual operation) is turned to the unlock side from the outside of the vehicle.
  (5) Check that the security function will be canceled when any of the following conditions is satisfied.
    - The ignition switch is turned ON
    - The driver's door is unlocked by the key operation
    - The door control switch (for manual operation) is turned to the unlock side after unlocking the door control knob manually
    - The doors are unlocked by the wireless operation (for wireless door lock models)

(d) Check the illuminated entry function.
  (1) Check that the room light, ignition switch light and rear room light turn on when opening any of the doors and fade out approximately 15 seconds after closing the door.
  (2) Check that the room light ignition switch light and rear room light fade out immediately when either of the following conditions is satisfied.
    - All the doors are closed and locked
    - All the doors are closed and the ignition switch is turned ON or ACC

(e) Check back door lock/unlock function.
  (1) Check that the back door locks when the key is turned clockwise by approximately 45° and the back door unlocks when turned counterclockwise by approximately 45°.

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