DI8VI-01

Door closer position switch circuit

CIRCUIT DESCRIPTION

The closer position switch is built in the door lock assembly and detects the position of the closer.

The condition of the HALF/FULL POLE switches and the door for each case is as follows.

1. CONDITIONS FOR STARTING DOOR CLOSER OPERATION

- Door closer detection switch: original position
- Full latch switch ON
- Half latch switch ON

After detecting the conditions mentioned above, if the following conditions continue for 300msec, the door closer motor starts rotating in the regular direction.

- Door closer detection switch: original position
- Full latch switch ON
- Half latch switch OFF
- Pole switch: ON

2. CONDITIONS FOR CANCELING DOOR CLOSER OPERATION

If the following conditions are detected during the door closer motor's regular rotation, the door closer operation is stopped. After 100msec, the door closer motor starts rotating the reverse direction to move to the original position.

- Door closer detection switch: reverse rotation range
- Half latch switch ON
- The motor receive voltage for 3 sec. or more
- Door unlock detection switch: LOCK

3. CONDITIONS FOR FINISHING DOOR CLOSER OPERATION

If the following conditions are detected during the door closer motor's regular rotation, the door closer operation is stopped. After 100msec, it makes reverse rotation to move the door closer 150 \pm 20 msec.

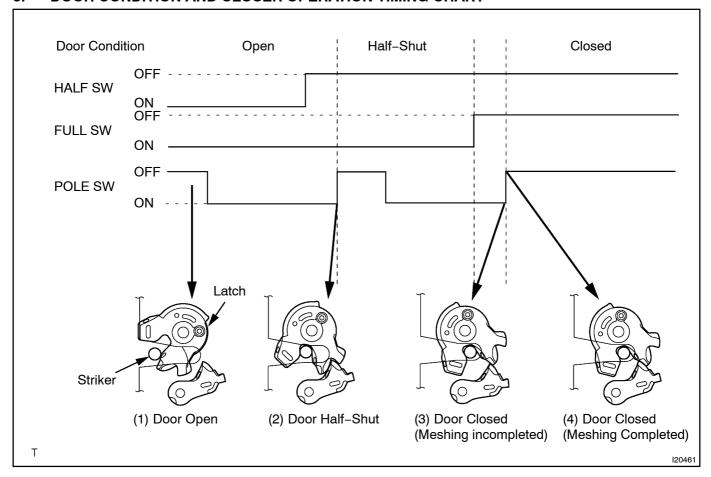
- Full latch switch OFF
- Half latch switch OFF
- Pole switch: OFF

4. CONDITIONS FOR CANCELING DOOR CLOSER REVERSE ROTATION

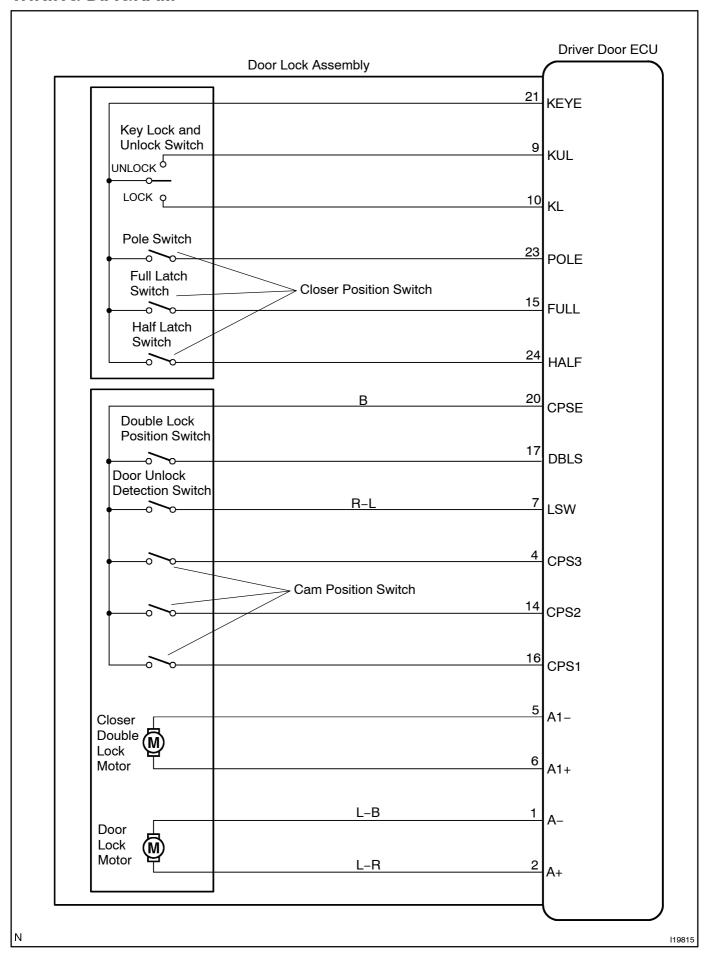
If the following conditions are detected during the door closer motor's regular rotation, the door closer operation is moved to the original position.

- Full latch switch ON
- Half latch switch ON
- Double locking operation command

5. DOOR CONDITION AND CLOSER OPERATION TIMING CHART



WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Incase of using the LEXUS hand-held tester, start the inspection from step 1 and incase of thot using the LEXUS hand-held tester, start from step 2.

1 Check[door[closer[position[POLE/FULL/HALF)]switch[using[LEXUS[hand-held tester.]]

PREPARATION:

Connect[]he[]LEXUS[]hand-held[]ester[]]to[]DLC[]3.

CHECK:

Check[]he[door[closer[position[]POLE/FULL/HALF)[]switch[]using[]DATA[]LIST.



Proceed_to_next_circuit_inspection_shown_on problem[symptoms[table](See_page_DI-1197).

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2 | Check@door@loser@position@switch@See@page@BE-170).

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Replace door lock assembly.

ΟK

3 Check[wire[harness[and[connector[between[door[closer[position]switch[and driver[door[ECU[See[page]N-35]).

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Repair or replace wire harness or connector.

ΟK

Proceed lo next circuit inspection shown on problem symptoms table (See page DI-1197).