DI8SQ–01

DTC	B2212	Door Closer and Double Locking Motor Malfunction on Passenger Door

CIRCUIT DESCRIPTION

This DTC is output when failure of cam position circuit is detected.
HINT:
When cam position switch 1, 2 and 3 are not all "ON" or all "OFF", this DTC is cleared.

DTC No.	DTC Detecting Condition	Trouble Area
B2212	Cam position switch 1, 2 and 3 in the door closer and double locking motor are all "ON" or all "OFF".	• Door closer and Double locking motor • Wire harness • Passenger door ECU

The closer detection switch is built in the door lock assembly.

This switch is to detect the position of the double lock/closer motor.

The relationship between each switch and double lock/closer motor conditions are as follows.

When it operates regular rotation, the operation goes from top of the list. When reverse rotation, from bottom of the list.
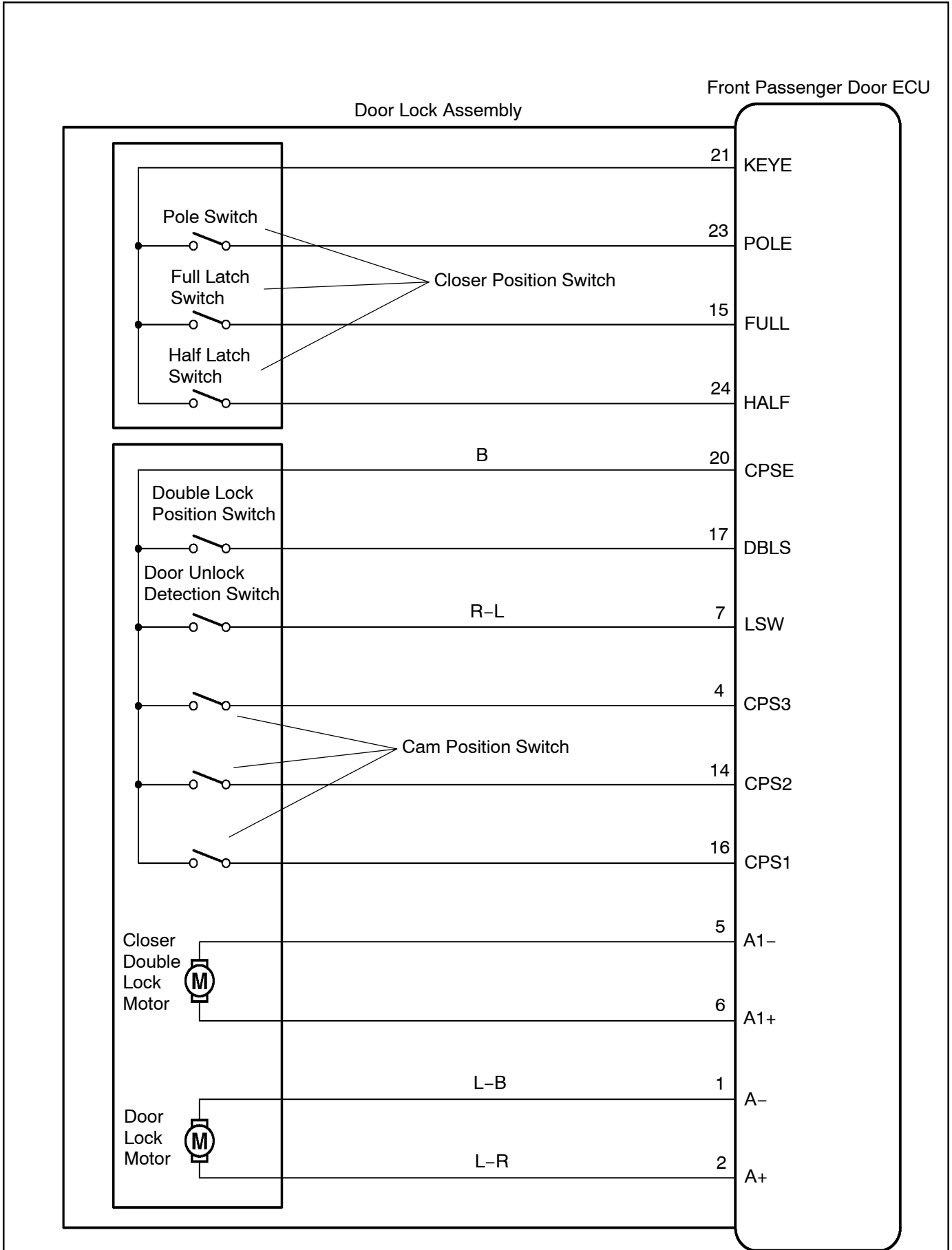
Double lock/closer motor conditions	CPS1	CPS2	CPS3
(Error range)	OFF	OFF	OFF
1. Original position	OFF	ON	ON
2. Double lock operation range (Double lock is unset.)	OFF	ON	OFF
3. Closer operation range	ON	ON	OFF
4. Reverse rotation range	ON	OFF	OFF
5. Double lock operation range (Double lock is set.)	OFF	OFF	ON
6. Reverse rotation range	ON	OFF	ON
(Error range)	OFF	OFF	OFF

If the closer detection switch does not operate in order mentioned above, Passenger door ECU judges the closer and the double lock as errors, and the operation is stopped.

Regular rotation: 1 → 2 → 3 → 4 → 6 → 5 → 1

Reverse rotation: 1 → 5 → 6 → 4 → 3 → 2 → 1

WIRING DIAGRAM

Front Passenger Door ECU

Door Lock Assembly

	21	KEYE

Pole Switch

	23	POLE

Full Latch Switch

Closer Position Switch

	15	FULL

Half Latch Switch

	24	HALF

B	20	CPSE

Double Lock Position Switch

	17	DBLS

Door Unlock Detection Switch

R−L	7	LSW

	4	CPS3

Cam Position Switch

	14	CPS2

	16	CPS1

Closer Double Lock Motor (M)

	5	A1−
	6	A1+

L−B	1	A−

Door Lock Motor (M)

L−R	2	A+

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INSPECTION PROCEDURE

HINT:

In case of using the LEXUS hand–held tester, start the inspection from step 1 and in case of not using the LEXUS hand–held tester, start from step 2.

1	Check cam position switch using LEXUS hand–held tester.

PREPARATION:

Connect the LEXUS hand–held tester to DLC 3.

CHECK:

Check the cam position switch using DATA LIST.

OK > Proceed to next circuit inspection shown on problem symptoms table (See page DI–1271).

NG

2	Check cam position switch (See page BE–170).

NG > Replace door lock assembly.

OK

3	Check wireharness and connector between cam position switch and front passenger door ECU (See page IN–35).

NG > Repair or replace wireharness or connector.

OK

Replace passenger door ECU
(See page IN–35).