DI8QU−01

DTC	B2214	Door Closer and Double Locking Motor Malfunction on Rear Left Door

CIRCUIT DESCRIPTION

This DTC is output when failure of the cam position switch 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
B2214	Cam position switch 1, 2 and 3 in the door closer and double locking motor are all "ON" or all "OFF".	• Door closer double locking motor • Wire harness • Rear door LH ECU

The cam position switch is built in the door lock assembly and detects the position of the double lock/closer motor.

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

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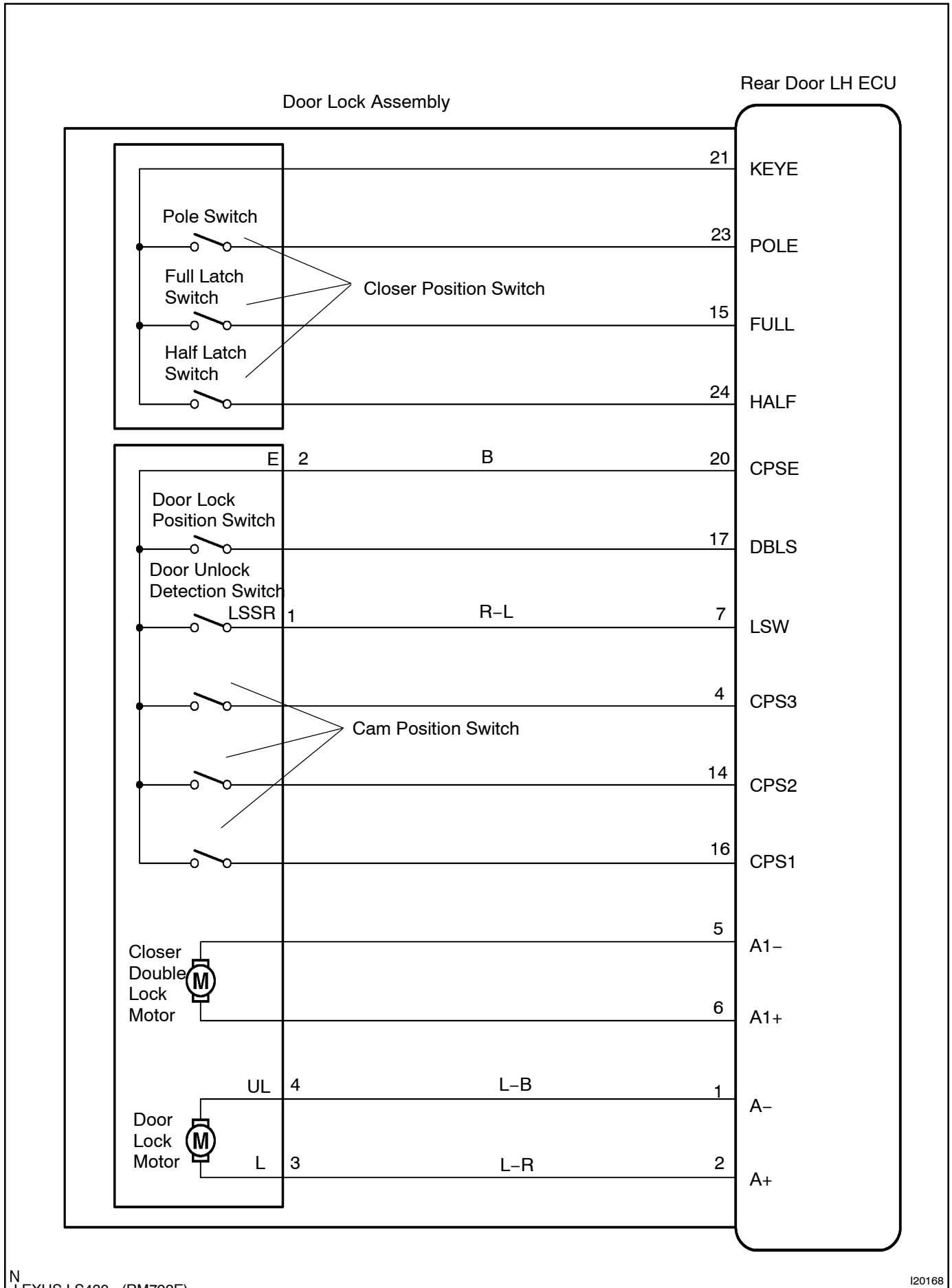
Double lock/closer motor conditions	CPS1	CPS2	CPS3
(Error range)	OFF	OFF	OFF
1. Reverse rotation range	ON	OFF	ON
2. Double lock operation range (Double lock is set.)	OFF	OFF	ON
3. Original position	OFF	ON	ON
4. Double lock operation range (Double lock is unset.)	OFF	ON	OFF
5. Closer operation range	ON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

If the closer detection switch does not operate in order as mentioned above the door ECU judges the closer and the double lock as defective 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

Door Lock Assembly

Rear Door LH ECU

21	KEYE
Pole Switch	
23	POLE
Full Latch Switch	Closer Position Switch
15	FULL
Half Latch Switch	
24	HALF

E 2   B   20   CPSE

Door Lock Position Switch
17   DBLS

Door Unlock Detection Switch
LSSR 1   R–L   7   LSW

4   CPS3

Cam Position Switch

14   CPS2

16   CPS1

5   A1–

Closer Double Lock Motor   M

6   A1+

UL 4   L–B   1   A–

Door Lock Motor   M

L 3   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–1395**).

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 rear door LH ECU (**See page IN–35**).

> **NG** → Repair or replace wireharness or connector.

OK ↓

Proceed to next circuit inspection shown on problem symptoms table
(**See page DI–1395**).