

DTC	B2221	JAM PROTECTION PULSE SENSOR CIRCUIT ON BACK DOOR
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AUTO UP/DOWN FUNCTION DOES NOT OPERATE

CIRCUIT DESCRIPTION

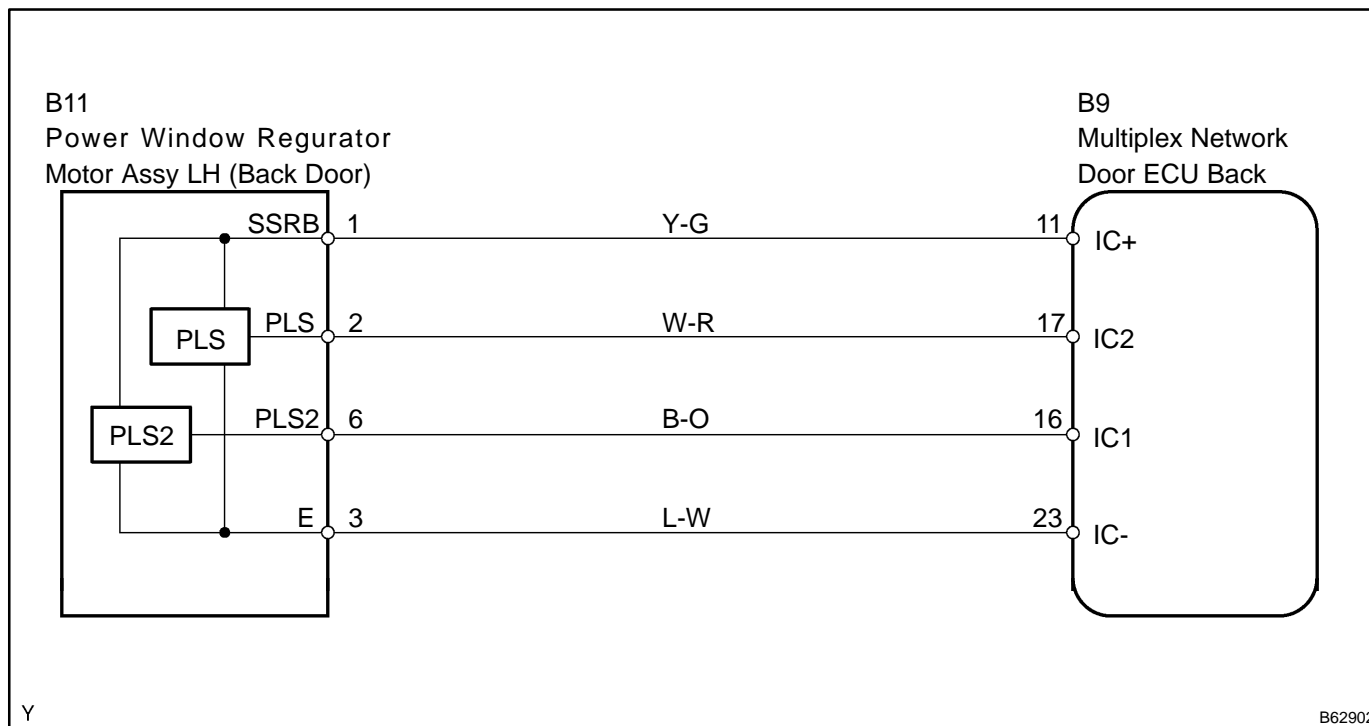
The back door ECU monitors the condition of the power window motor to detect the position of the door glass by using pulse signals output from the 2 pulse sensors in the power window motor.

DTC No.	DTC Detection Condition	Suspected Part
B2221	<ul style="list-style-type: none"> • PLS pulse sensor circuit malfunction • PLS2 pulse sensor circuit malfunction • Pulse direction is opposite to motor rotating direction (Short circuit between PLS and PLS2) • PLS and PLS2 pulse sensors circuit malfunction • Fully closed position is misaligned 	<ul style="list-style-type: none"> • Power window regulator motor assy LH (Back door) • Wire harness

FAIL-SAFE

- The AUTO UP/ DOWN function is disabled.
- The MANUAL DOWN function via the transmitter is disabled.
- The MANUAL UP/DOWN function via the back door power window switch can be performed (the ignition switch ON).
- The MANUAL UP/DOWN function via the back door lock key cylinder can be performed (the ignition switch ON).

WIRING DIAGRAM



INSPECTION PROCEDURE

1 RESET POWER WINDOW REGULATOR MOTOR

- (a) Turn the ignition switch ON.
- (b) Open the back door glass.
- (c) Push down the back door power window switch until the door glass is fully closed, and hold the switch 1 second more even after the door glass is fully closed.
- (d) Check that the AUTO UP/DOWN function operates completely.

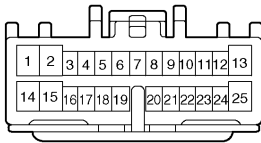
OK

END

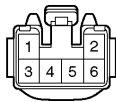
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2 CHECK HARNESS AND CONNECTOR (BACK DOOR ECU ⇔ POWER WINDOW MOTOR)**Wire Harness Side**

B9
Multiplex Network Door ECU Back
(Back Door ECU)



B11
Power Window Regulator
Motor Assy LH (Back Door)



B62905

- (a) Disconnect the B9 back door ECU connector.
- (b) Disconnect the B11 back door power window motor connector.
- (c) Check the continuity between wire harness side connectors.

Standard:

Terminal No.	Specified Condition
23 ⇔ 3	Continuity
17 ⇔ 2	Continuity
16 ⇔ 6	Continuity
1 ⇔ 11	Continuity
23, 17, 16, 1 ⇔ Body ground	No continuity

OK

**REPLACE POWER WINDOW REGULATOR
MOTOR ASSY LH**

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REPAIR OR REPLACE HARNESS AND CONNECTOR