

POWER WINDOW (LHD)

SYSTEM OUTLINE

1. AUTO OPERATION (DRIVER'S WINDOW)

When the power window master SW is operated to AUTO UP position with the ignition SW on, the current flows from the D FR P/W Fuse to power window master SW TERMINAL 1 to TERMINAL 8 to power window motor front LH TERMINAL 1 to TERMINAL 2 to power window master SW TERMINAL 20 to TERMINAL 9 to GROUND, and the motor rotates to close the window. The motor continues to rotate until the window is fully closed or the DOWN position of the power window master SW is operated.

When the power window master SW is operated to AUTO DOWN position with the ignition SW on, the current flows from the D FR P/W Fuse to power window master SW TERMINAL 1 to TERMINAL 20 to power window motor front LH TERMINAL 2 to TERMINAL 1 to power window master SW TERMINAL 8 to TERMINAL 9 to GROUND, and the motor rotates to open the window. The motor continues to rotate until the window is fully opened or the UP position of the power window master SW is operated.

2. MANUAL OPERATION (DRIVER'S WINDOW)

When the power window master SW is operated to UP position with the ignition SW on, the current flows from the D FR P/W Fuse to power window master SW TERMINAL 1 to TERMINAL 8 to power window motor front LH TERMINAL 1 to TERMINAL 2 to power window master SW TERMINAL 20 to TERMINAL 9 to GROUND, and the motor rotates to close the window.

When the power window master SW is operated to DOWN position with the ignition SW on, the current flows from the D FR P/W Fuse to power window master SW TERMINAL 1 to TERMINAL 20 to power window motor front LH TERMINAL 2 to TERMINAL 1 to power window master SW TERMINAL 8 to TERMINAL 9 to GROUND, and the motor rotates to open the window.

3. MANUAL OPERATION (EXCEPT DRIVER'S WINDOW)

When the power window control SW front RH, rear LH, RH is operated to UP position, the current flows to the power window control SW TERMINAL PCT to TERMINAL U to power window motor to power window control SW TERMINAL D to TERMINAL E to GROUND, and the motor rotates to close the window.

When the power window control SW front RH, rear LH, RH is operated to DOWN position, the current flows to the power window control SW TERMINAL PCT to TERMINAL D to power window motor to power window control SW TERMINAL U to TERMINAL E to GROUND, and the motor rotates to open the window.

When controlling the respective windows with the power window master SW, a communication signal is input from the power window master TERMINAL TX to body ECU TERMINAL MPX3, and the current flows from the body ECU to respective power window control SW TERMINAL SU (UP operation), SD (DOWN operation), and the motor rotates in the controlled direction.

4. KEY OFF POWER WINDOW OPERATION

After the ignition SW is turned off, the driver's side power window can be operated for approximately 45 seconds, unless the driver's side door or the front passenger side door is opened. However, if the key off operation time finishes during AUTO operation, the AUTO operation is stopped immediately.

5. CATCHING PREVENTION FUNCTION

If any foreign matter is caught in the window while it is rising, the pulse sensor installed in the power window motor detects changes in the number of motor rotations, forcibly lowers the door window 50 mm or if the door window opening amount is 200 mm or less, the window is lowered so that the opening amount is 200 mm.

SERVICE HINTS

P5, P6, P7 POWER WINDOW CONTROL SW FRONT RH, REAR LH, RH

3-GROUND : Always continuity

4-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

P8 POWER WINDOW MASTER SW

9-GROUND : Always continuity

4-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

1-GROUND : Always approx. 12 volts

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A14	A	98 (LHD)	E2	A	96 (LHD)
A15	B	98 (LHD)	E3	B	96 (LHD)
B6	A	98 (LHD)	J5		99 (LHD)
B7	B	98 (LHD)	J9		99 (LHD)
C10		98 (LHD)	J13		100 (LHD)
D4		98 (LHD)	J16		100 (LHD)
D7		100 (LHD)	J17		100 (LHD)
D8		100 (LHD)	P5		101 (LHD)
				P6	101 (LHD)
				P7	101 (LHD)
				P8	101 (LHD)
				P9	101 (LHD)
				P10	101 (LHD)
				P11	101 (LHD)
				P12	101 (LHD)

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	80 (LHD)	Engine Room No.1 R/B (Engine Compartment Right)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	82 (LHD)	Front Door LH Wire and Driver Side J/B (Left Kick Panel)
1G	82 (LHD)	Engine Room Main Wire and Driver Side J/B (Left Kick Panel)
1H	82 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
1L		
2B	84 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)
2C		
2E	84 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)
2G		
2H		
2K	84 (LHD)	Front Door RH Wire and Passenger Side J/B (Right Kick Panel)
2L	84 (LHD)	Floor Wire and Passenger Side J/B (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	114 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Near the Driver Side J/B)
IB2	114 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Near the Driver Side J/B)
IC1	114 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IH3	116 (LHD)	Instrument Panel Wire and Floor Wire (Near the Passenger Side J/B)
II1	116 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	118 (LHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BB1	118 (LHD)	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)

: GROUND POINTS

Code	See Page	Ground Points Location
EC	112 (LHD)	Left Fender Apron
ID	114 (LHD)	Cowl Side Panel LH
IG	114 (LHD)	Cowl Side Panel RH
BK	118 (LHD)	Left Quarter Panel LH
BL	118 (LHD)	Front Floor Panel RH