

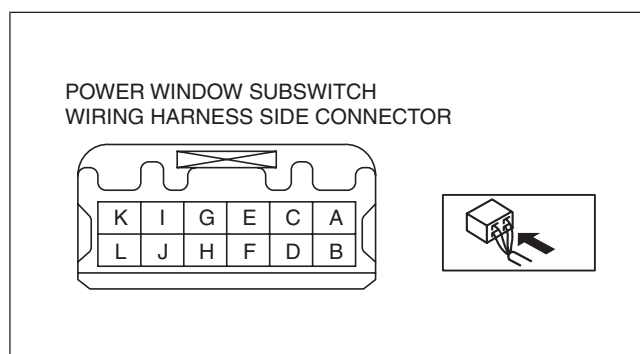
## POWER WINDOW SUBSWITCH INSPECTION

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### Auto-open/close Function For All Windows

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the power window subswitch. (See POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION.)
3. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
4. Connect the power window subswitch connector.
5. Measure the voltage at each terminal.
  - If the voltage is not as specified in the terminal voltage table, inspect the parts under "Inspection item(s)" and related wiring harnesses.
  - If the system does not work properly even though the inspection items or related wiring harnesses do not have any malfunction, replace the power window subswitch.

### Terminal voltage table (reference)



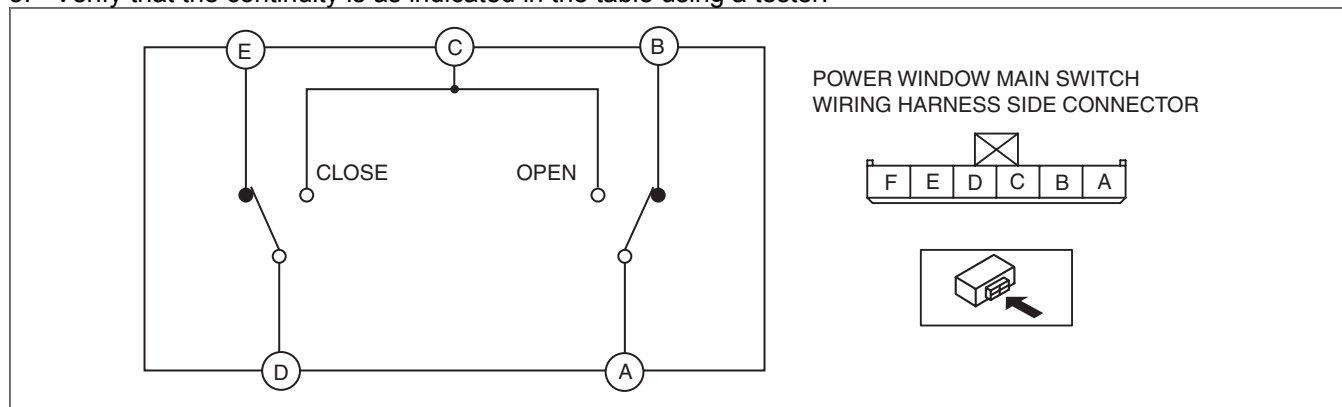
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Terminal	Signal name	Connected to	Measurement condition	Voltage (V)	Inspection item (s)
A	Serial communication	Power window main switch	Because this terminal is for communication, good/no good judgment by terminal voltage is not possible		<ul style="list-style-type: none"> <li>• Power window subswitch (See POWER WINDOW SUBSWITCH INSPECTION.)</li> <li>• Related wiring harness</li> </ul>
C	Power supply	P.WIND2 25 A fuse	Under any condition	B+	<ul style="list-style-type: none"> <li>• P.WIND2 25 A fuse</li> <li>• Related wiring harness</li> </ul>
D	Pulse 2	Power window motor	Door glass operating	Wave pattern (See Inspection Using an Oscilloscope (Reference).)	<ul style="list-style-type: none"> <li>• Power window motor (See POWER WINDOW MOTOR INSPECTION.)</li> <li>• Related wiring harness</li> </ul>
F	Pulse 1	Power window motor	Door glass operating	Wave pattern (See Inspection Using an Oscilloscope (Reference).)	<ul style="list-style-type: none"> <li>• Power window motor (See POWER WINDOW MOTOR INSPECTION.)</li> <li>• Related wiring harness</li> </ul>
H	Close output	Power window motor	Door glass closing	B+	<ul style="list-style-type: none"> <li>• Power window motor (See POWER WINDOW MOTOR INSPECTION.)</li> <li>• Related wiring harness</li> </ul>
			while door glass is closing for approx. 40 s after ignition is switched OFF (LOCK) from ON	B+	
			Other	1.0 or less	

Terminal	Signal name	Connected to	Measurement condition	Voltage (V)	Inspection item (s)
I	Open output	Power window motor	Door glass opening	B+	<ul style="list-style-type: none"> <li>Power window motor (See POWER WINDOW MOTOR INSPECTION.)</li> <li>Related wiring harness</li> </ul>
			while door glass is opening for approx. 40 s after ignition is switched OFF (LOCK) from ON	B+	
			Other	1.0 or less	
J	Power supply	Power window motor	Switch the ignition to ACC or ON (engine off)	B+	<ul style="list-style-type: none"> <li>Power window motor (See POWER WINDOW MOTOR INSPECTION.)</li> <li>Related wiring harness</li> </ul>
			Switch the ignition OFF (LOCK)	1.0 or less	
K	GND	Body ground	Under any condition:	1.0 or less	<ul style="list-style-type: none"> <li>Related wiring harness</li> </ul>
L	Sensor ground	Power window motor	Under any condition:	1.0 or less	<ul style="list-style-type: none"> <li>Power window motor (See POWER WINDOW MOTOR INSPECTION.)</li> <li>Related wiring harness</li> </ul>

### Auto-open/close Function For Driver-side

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the power window subswitch. (See POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION.)
3. Verify that the continuity is as indicated in the table using a tester.



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- If not as indicated in the table, replace the power window subswitch.

Switch position	Terminal				
	A	B	C	D	E
CLOSE	○—○		○—○		
OFF	○—○			○—○	
OPEN	○		○	○—○	

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### Inspection Using an Oscilloscope (Reference)

- Terminal:  
D, F(+) ↔ ground (-)
- Oscilloscope setting: 2 V/DIV (Y), 1 ms/DIV (X), DC range

