

## BASIC POWER WINDOW SYSTEM INSPECTION [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR DRIVER-SIDE)]

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### Manual Open/close Function Inspection

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> <li>Switch the ignition ON (engine off or on).</li> <li>Operate the power window using the manual open/close function on the power window main switch.</li> <li>Does the power window operate properly?</li> </ul>	Yes Go to the next step.
		No <ul style="list-style-type: none"> <li>Inspect the power window main switch and the wiring harness.</li> <li>Repair or replace malfunctioning parts.</li> </ul>
2	<ul style="list-style-type: none"> <li>Set the power cut switch to the UNLOCK position.</li> <li>Operate the power window using the power window subswitch.</li> <li>Does the power window operate properly?</li> </ul>	Yes Go to the next step.
		No <ul style="list-style-type: none"> <li>Inspect the power window subswitch and the wiring harness.</li> <li>Repair or replace malfunctioning parts.</li> </ul>
3	<ul style="list-style-type: none"> <li>Set the power cut switch to the LOCK position.</li> <li>Operate all power windows other than the driver-side.</li> <li>Does the power window operate properly?</li> </ul>	Yes <ul style="list-style-type: none"> <li>Inspect the power cut switch and the wiring harness.</li> <li>Replace the power window main switch.</li> </ul>
		No <ul style="list-style-type: none"> <li>Manual open/close function is normal.</li> <li>Perform the auto open/close function inspection.</li> </ul>

### Auto Open/close Function (Driver-side) Inspection

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> <li>Switch the ignition ON (engine off or on).</li> <li>Operate the power window using the auto open / close function on the power window main switch.</li> <li>Does the power window operate properly?</li> </ul>	Yes Go to the next step.
		No <b>If the power window automatically opens during the closing operation:</b> <ul style="list-style-type: none"> <li>Go to DOOR GLASS REVERSES EVEN THOUGH THE GLASS DOES NOT ENCOUNTER A FOREIGN OBJECT WHILE IT IS MOVING UP IN AUTOMATIC MODE [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR DRIVER-SIDE)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)].</li> </ul> <b>Others:</b> <ul style="list-style-type: none"> <li>Go to THE AUTO OPEN/CLOSE FUNCTION ON THE DRIVER-SIDE POWER WINDOW IS INOPERATIVE [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR DRIVER-SIDE)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)].</li> </ul>
2	<ul style="list-style-type: none"> <li>Operate the power window main switch to the close position while the power window is opening.</li> <li>Does the power window operation stop?</li> </ul>	Yes Go to the next step.
		No Replace the power window main switch (power window control unit is malfunctioning.)
3	<ul style="list-style-type: none"> <li>Operate the power window main switch to the open position while the power window is closing.</li> <li>Does the power window operation stop?</li> </ul>	Yes <ul style="list-style-type: none"> <li>Auto open/close function is normal.</li> <li>Perform the IG-OFF timer function inspection.</li> </ul>
		No Replace the power window main switch (power window control unit is malfunctioning.)

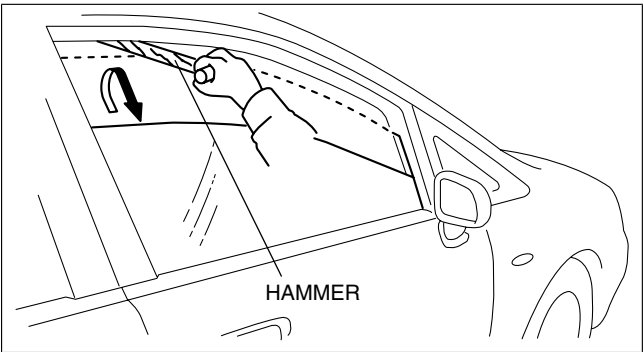
### IG-OFF Timer Function Inspection

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> <li>Close all doors.</li> <li>Switch the ignition from ON (engine off or on) to off (LOCK).</li> <li>Operate the power window main switch <b>within 40 s</b> after switching the ignition to off (LOCK).</li> <li>Does the power window operate?</li> </ul>	Yes Go to the next step.
		No <ul style="list-style-type: none"> <li>Inspect the door switches and related wiring harness.</li> <li>If above parts are okay, replace the power window main switch, then go to the next step.</li> <li>If above parts are incorrect repair or replace malfunction part (s), then go to the next step.</li> </ul>
2	<ul style="list-style-type: none"> <li>Open any door.</li> <li>Switch the ignition from ON (engine off or on) to off (LOCK).</li> <li>Operate the power window main switch <b>within 40 s</b> after switching the ignition to off (LOCK).</li> <li>Does the power window operate?</li> </ul>	Yes <ul style="list-style-type: none"> <li>Inspect the door switches and related wiring harness.</li> <li>If above parts are okay, replace the power window main switch, then go to the next step.</li> <li>If above parts are incorrect repair or replace malfunction part (s), then go to the next step.</li> </ul>
		No Go to the next step.

STEP	INSPECTION	ACTION
3	<ul style="list-style-type: none"> <li>Close all doors.</li> <li>Switch the ignition from ON (engine off or on) to off (LOCK).</li> <li>Operate the power window main switch <b>within 60 s</b> after switching the ignition to off (LOCK).</li> <li>Does the power window operate?</li> </ul>	Yes Replace the power window main switch (power window control unit is malfunctioning.)
		No <ul style="list-style-type: none"> <li>IG-OFF timer function operation is normal.</li> <li>Perform the auto reverse pinch protection function inspection.</li> </ul>

### Auto Reverse Pinch Protection Function Inspection

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> <li>Switch the ignition ON (engine off or on).</li> <li>Fully open the driver-side power window.</li> <li>Set the hammer (thickness: <b>10 mm {0.39 in} or more</b>) as shown below. Then, close the power window.</li> <li>Verify that the power window opens approx. <b>200 mm {2.87 in}</b> after contacting the hammer and the operation stops.</li> <li>Does auto reverse pinch protection function operate properly?</li> </ul>	Yes Auto reverse pinch protection function is normal.
		No Go to the next step.
2	<ul style="list-style-type: none"> <li>Does power window open before contacting the hammer?</li> </ul>	Yes Go to DOOR GLASS REVERSES EVEN THOUGH THE GLASS DOES NOT ENCOUNTER A FOREIGN OBJECT WHILE IT IS MOVING UP IN AUTOMATIC MODE [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR DRIVER-SIDE)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)].
		No Initialize the power window main switch.  <b>Note</b> <ul style="list-style-type: none"> <li>Before initializing the power window main switch, cut off the power supply to the power window main switch for approx. <b>60 s</b>. Then, reconnect it again after <b>approx. 60 s</b>: <ul style="list-style-type: none"> <li>Disconnect the negative battery cable.</li> <li>Disconnect the power window main switch connector.</li> <li>Remove the fuse for the power window system.</li> </ul> </li> </ul>



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