

2012 - Mazda6 - Body and Accessories

No.1 THE AUTO OPEN/ CLOSE FUNCTION ON THE DRIVER'S SIDE POWER WINDOW IS INOPERATIVE [POWER WINDOW SYSTEMS (WITHOUT EXTERIOR OPEN FUNCTION)]

1	The auto open/ close function on the driver's side power window is inoperative
POSSIBLE CAUSE	- No power supply to power window main switch - Power window main switch malfunction (power window control unit malfunction, auto switch malfunction) - Power window motor malfunction (Sensor inside motor malfunction) - Malfunction in wiring harness between power window motor (sensor) and power window main switch

Diagnostic procedure

STEP	INSPECTION	ACTION
1	- Turn the ignition switch to LOCK position for 3 minutes. - Turn the ignition switch to ON position. - Initialize the power window system. - Operate the auto open/close function. - Does the power window operate properly?	Yes System is normal. The power window system auto open/close function does not operate temporarily for any of the following reasons: - The power window switch is operated while the power window motor protection circuit (integrated in power window motor) is operating. - The power window main switch power supply is cut off by disconnection of the negative battery cable or removing the fuse.
		No Go to the next step.
2	Turn the ignition switch to ON position.	Yes Replace the power window main switch. (See POWER WINDOW MAIN SWITCH)

	- Inspect the two-step down operation. (See POWER WINDOW SYSTEM PRELIMINARY INSPECTION [POWER WINDOW SYSTEMS (WITHOUT EXTERIOR OPEN FUNCTION)].) - Does the two-step down function operate properly?.	REMOVAL/ INSTALLATION.)	
		No	Go to the next step.
3	- Does the sensor built into the power window motor send pulse signals while the power window motor is operating? - Inspect the voltage at the following power window motor terminals: - A (sensor 1 signal) - B (sensor 2 signal) - Is the voltage approx.6 V?	Yes	Go to the next step.
		No	Replace the power window motor. (See POWER WINDOW MOTOR REMOVAL/ INSTALLATION .)
4	- Does the sensor built into the power window motor send pulse signals while the power window motor is operating? - Inspect the voltage at the following power window main switch (4-pin connector) terminals: 2C (sensor 1 signal) 2D (sensor 2 signal) - Is the voltage approx.6 V?	Yes	Replace the power window main switch. (See POWER WINDOW MAIN SWITCH REMOVAL/ INSTALLATION .)
		No	Inspect for an open or short circuit in wiring between the power window motor (sensor) and the power window main switch. Inspect the connection of the power window motor and power window main switch connectors. (damage/pulled-out pins, corrosion) Repair or replace if necessary.

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1	- Turn the ignition switch to LOCK position for 3 minutes. - Turn the ignition switch to ON position. - Initialize the power window system. - Operate the auto open/close function. - Does the power window operate properly?	Yes System is normal. The power window system auto open/close function does not operate temporarily for any of the following reasons: - The power window switch is operated while the power window motor protection circuit (integrated in power window motor) is operating. - The power window main switch power supply is cut off by disconnection of the negative battery cable or removing the fuse.
		No Go to the next step.
2	Turn the ignition switch to ON position.	Yes Replace the power window main switch. (See POWER WINDOW MAIN SWITCH)

	- Inspect the two-step down operation. (See POWER WINDOW SYSTEM PRELIMINARY INSPECTION [POWER WINDOW SYSTEMS (WITHOUT EXTERIOR OPEN FUNCTION)].) - Does the two-step down function operate properly?.	REMOVAL/ INSTALLATION.)	
		No	Go to the next step.
3	- Does the sensor built into the power window motor send pulse signals while the power window motor is operating? - Inspect the voltage at the following power window motor terminals: - A (sensor 1 signal) - B (sensor 2 signal) - Is the voltage approx.6 V?	Yes	Go to the next step.
		No	Replace the power window motor. (See POWER WINDOW MOTOR REMOVAL/ INSTALLATION .)
4	- Does the sensor built into the power window motor send pulse signals while the power window motor is operating? - Inspect the voltage at the following power window main switch (4-pin connector) terminals: 2C (sensor 1 signal) 2D (sensor 2 signal) - Is the voltage approx.6 V?	Yes	Replace the power window main switch. (See POWER WINDOW MAIN SWITCH REMOVAL/ INSTALLATION .)
		No	Inspect for an open or short circuit in wiring between the power window motor (sensor) and the power window main switch. Inspect the connection of the power window motor and power window main switch connectors. (damage/pulled-out pins, corrosion) Repair or replace if necessary.