

BASIC POWER WINDOW SYSTEM INSPECTION [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR ALL WINDOWS)]

id0903608211j6

Manual Mode Function Inspection

STEP	INSPECTION		ACTION
1	<ul style="list-style-type: none"> Switch the ignition ON (engine off or on). Turn the power-cut switch to UNLOCK. Does each door glass move up and down in manual mode using the power window subswitch? 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> Inspect the following items: <ul style="list-style-type: none"> Power window main switch (power-cut switch system malfunction) Power window subswitch power supply fuses Power window subswitch ground wiring harness Power window subswitch power supply wiring harnesses Wiring harness between power window subswitch and power window motor Power window subswitch Power window motor Repair or replace the malfunctioning part, then go to the next step.
2	<ul style="list-style-type: none"> Does the driver-side door glass move up and down in manual mode using the power window main switch? 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> Inspect the following items: <ul style="list-style-type: none"> Power window main switch power supply fuses Power window main switch ground wiring harness Power window main switch power supply wiring harnesses Wiring harness between power window main switch and power window motor Power window main switch Repair or replace the malfunctioning part, then go to the next step.
3	<ul style="list-style-type: none"> Does each other door glass other than the driver-side door glass move up and down in manual mode using the power window main switch? 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> Perform the power window initialization procedure for any door glass that does not move up and down, and reinspect. (See POWER WINDOW SYSTEM INITIALIZATION PROCEDURE.) If it does not move up and down upon reinspection, inspect the following: <ul style="list-style-type: none"> Wiring harness between power window main switch and subswitch Repair or replace the malfunctioning part, then go to the next step.
4	<ul style="list-style-type: none"> Turn the power-cut switch to LOCK. Push/pull the power window main switch (switches for all windows in manual mode). Does only driver-side front door glass move up and down? 	Yes	<ul style="list-style-type: none"> Manual mode function is normal. Go to the automatic mode function inspection.
		No	Replace the power window main switch, then go to the automatic mode function inspection. (power-cut switch system malfunction)

Automatic Mode Function Inspection

Note

- Perform the following inspection for the power window main switch and the power window subswitches for each window.

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> Switch the ignition ON (engine off or on). Operate the each power window switch in automatic mode. Does the each door glass move up and down in automatic mode? 	Yes Go to the next step.
		No <ul style="list-style-type: none"> Door glass does not move up and down in automatic mode: <ul style="list-style-type: none"> Go to Step 1 of DOOR GLASS DOES NOT MOVE UP AND DOWN IN AUTOMATIC MODE [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR ALL WINDOWS)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)]. Door glass moves up and down in automatic mode, but door glass reverses: <ul style="list-style-type: none"> Go to Step 1 of 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 ALL WINDOWS)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)].
2	<ul style="list-style-type: none"> Gently pull the each power window switch while the door glass is moving down in automatic mode. Does the glass stop? 	Yes Go to the next step.
		No Replace the suspected power window switch, then go to the automatic door glass return function inspection.
3	<ul style="list-style-type: none"> Gently press the each power window switch while the door glass is moving up in automatic mode. Does the glass stop? 	Yes <ul style="list-style-type: none"> Automatic mode function is normal. Go to the automatic door glass return function inspection.
		No Replace the suspected power window switch, then go to the automatic door glass return function inspection.

Automatic Door Glass Return Function Inspection

Note

- Perform the following inspection for the power window main switch and the power window subswitches for each window.
- With the switch held at auto-up, the door glass does not automatically reverse even when a foreign object is encountered.

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> Switch the ignition ON (engine off or on). Lower the door glass completely. Use the power window switch to close the door glass in automatic mode. Does the door glass automatically reverse even though the glass does not encounter a foreign object while it is moving up in automatic mode? 	Yes Go to Step 1 of 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 ALL WINDOWS)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)].
		No Go to the next step.
2	<ul style="list-style-type: none"> Lower the door glass completely. Take a hammer and hold it against the inside of the top of the window frame so that the door glass will hit its handle when it is closed. Raise the door glass using automatic mode. When the door glass hits the hammer handle, does it immediately reverse and move down to approx. 200 mm {7.87 in} from the completely closed position? 	Yes <ul style="list-style-type: none"> Automatic door glass return function inspection is normal. Go to the IG OFF timer function inspection.
		No Go to Step 1 of DOOR GLASS DOES NOT REVERSE, EVEN WHEN ENCOUNTERING A FOREIGN OBJECT IN IT IS PATH [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR ALL WINDOWS)] [POWER WINDOW SYSTEMS (AUTO-OPEN/CLOSE FUNCTION)].

IG OFF Timer Function Inspection

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> • Close all doors. • Switch the ignition ON (engine off or on). • In automatic mode, push down the power window main switch for the driver-side front door glass. The door glass should move down within approx. 40 s after ignition switch off (LOCK). • In manual mode (finger continuously depressing the power window main switch), the door glass should move down within approx. 40 s after ignition switch off (LOCK). • Does the driver-side front door glass move down? 	Yes Go to the next step.
		No <ul style="list-style-type: none"> • Perform the driver-side power window initialization procedure, and reinspect. (See POWER WINDOW SYSTEM INITIALIZATION PROCEDURE.) • If it does not move up and down upon reinspection, inspect the following: <ul style="list-style-type: none"> — Wiring harness for the door open/close signal system — Latch switch • Repair or replace the malfunctioning part, and reinspect. <ul style="list-style-type: none"> — If operation is not normal, replace the power window main switch, and then go to the next step.
2	<ul style="list-style-type: none"> • Switch the ignition ON (engine off or on). • In automatic mode, pull up the power window main switch and subswitch for the all doors glass. The door glass does not move up within approx. 40 s after ignition switch off (LOCK). • Verify that driver-side all doors glass does not operate. • Does the driver-side all doors glass move up? 	Yes <ul style="list-style-type: none"> • Perform the suspect power window initialization procedure, and reinspect. (See POWER WINDOW SYSTEM INITIALIZATION PROCEDURE.) <ul style="list-style-type: none"> — If operation is not normal, replace the suspect power window switch, then go to the next step.
		No Go to the next step.
3	<ul style="list-style-type: none"> • Switch the ignition ON (engine off or on). • Perform the following for all doors. <ul style="list-style-type: none"> — Lower the driver-side front door glass completely. — Take a hammer and hold it against the inside of the top of the door glass frame so that the door glass will hit its handle when it is closing. — Raise the door glass using manual mode. • When the door glass hits the hammer handle, does it immediately reverse and move down to approx. 200 mm {7.87 in} from the completely closed position? 	Yes Go to the next step.
		No <ul style="list-style-type: none"> • Perform the suspect power window initialization procedure, and reinspect. (See POWER WINDOW SYSTEM INITIALIZATION PROCEDURE.) <ul style="list-style-type: none"> — If operation is not normal, replace the suspect power window switch, then go to the next step.
4	<ul style="list-style-type: none"> • Open any door. • Switch the ignition ON (engine off or on). • Push/pull the power window main switch or subswitch for all door glass within approx. 40 s after ignition switch off (LOCK). • Verify that the door glass does not move up or down. • Does the door glass move up or down? 	Yes <ul style="list-style-type: none"> • Inspect the suspect door switch and related wiring harness. • If above parts are normal, replace the suspect power window switch, then go to the next step. • If the above parts have any malfunction, repair or replace the malfunction part, then go to the next step.
		No Go to the next step.
5	<ul style="list-style-type: none"> • Close all doors. • Switch the ignition ON (engine off or on). • Push/pull the power window main switch or subswitch for all door glass after approx. 60 s after ignition switch off (LOCK). • Verify that the door glass does not move up or down. • Does the door glass move up or down? 	Yes <ul style="list-style-type: none"> • Perform the suspect power window initialization procedure, and reinspect. (See POWER WINDOW SYSTEM INITIALIZATION PROCEDURE.) <ul style="list-style-type: none"> — If operation is not normal, replace the suspect power window switch.
		No The IG OFF timer function is normal.