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)]

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Note

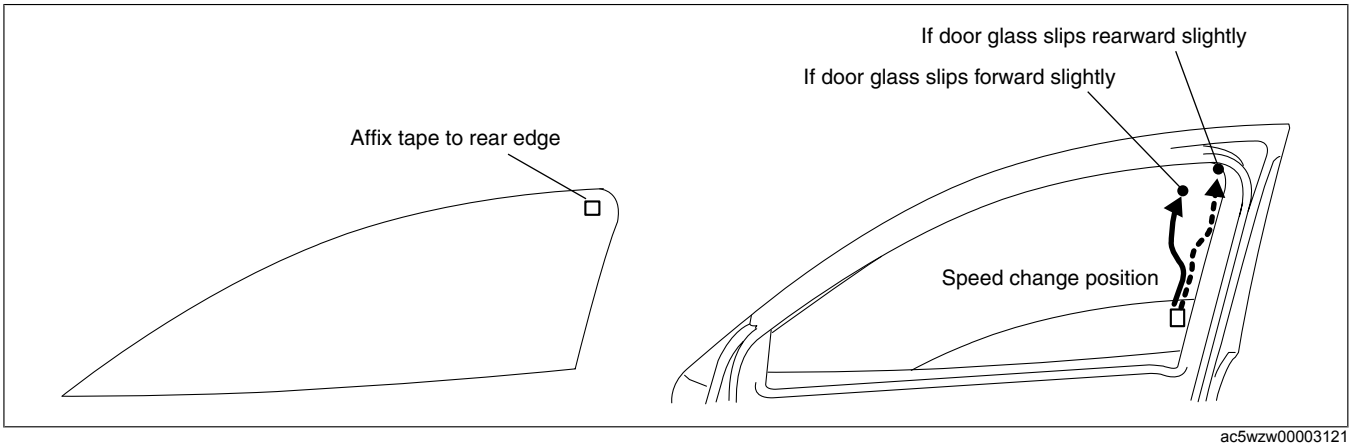
- Perform the following inspection for the power window system component parts of windows where the door glass reverses even though the glass does not encounter a foreign object while it is moving up in automatic mode.

3	**Door glass reverses even though the glass does not encounter a foreign object while it is moving up in automatic mode.**
POSSIBLE CAUSE	• Extreme change in the sliding resistance of the glass while the door glass is closing. — Improper installation of the acrylic door visor. — Power window motor malfunction. — Object caught between the glass run channel and the door glass. — Insufficient tightening of the door glass to the carrier plate. — Glass run channel malfunction. — Glass guide related malfunction. **Note** • The auto-reverse pinch protection function is a mechanism that automatically reverses (opens) the door glass while it is closing when the power window main switch detects the signal from the power window motor indicating that an object is obstructing the door glass movement. • The auto-reverse pinch protection function may operate if the sliding resistance of the door glass increases causing the closing speed to decrease. • If the door glass closing speed has changed, concentrate the inspection on the following locations: (Slip occurrence) — If the door glass is slipping forward, inspect the front side of the glass guide or glass run channel. — If the door glass is slipping rearward, inspect the rear side of the glass guide or glass run channel.

Diagnostic procedure

STEP	INSPECTION		ACTION
1	**INSPECT MALFUNCTION SYMPTOM** • Does the malfunction symptom occur only under the following special conditions?: — Driving over railroad tracks. — Driving on bumpy roads. — Opening/closing the door.	Yes	The system is normal. (Explain to the customer that this does not indicate a malfunction because the system is designed to reverse the door glass while it is closing if it receives vibration when the vehicle is crossing railroad tracks, driving on a bumpy road, or when the door is opened/closed.)
		No	Go to the next step.
2	**INSPECT ACRYLIC DOOR VISOR INSTALLATION CONDITION** • Is the acrylic door visor normal?	Yes	Go to the next step.
		No	Install the side visor properly, then go to the next step.
3	**INSPECT DOOR GLASS CLOSING SPEED** • Affix tape to the rear edge of the door glass as shown in the figure for placing marks (to facilitate seeing the door glass movement). • Start the engine and idle it (to ensure a stabilized operational voltage). • Does the door glass hesitate only once while its closing?	Yes	Mark the point where the door glass closing speed changed, then go to Step 5.
		No	Go to the next step.
4	**REINSPECT DOOR GLASS CLOSING SPEED** • Does the door glass hesitate periodically (5—6 times) while it is closing?	Yes	Replace the power window motor, then go to Step 8. (See POWER WINDOW MOTOR REMOVAL/INSTALLATION.)
		No	Go to Step 8.
5	**INSPECT GLASS RUN CHANNEL AND DOOR GLASS SLIDING SURFACE** • Is there an object caught between the glass run channel and the door glass, or is there roughness on the sliding surface (rubber surface)?	Yes	**Object is caught between glass run channel and door glass:** • Remove the object. **Roughness on the sliding surface (rubber surface):** • Replace the glass run channel. After performing one of the above actions, reinspect. If the malfunction is not corrected, go to Step 3.
		No	Go to the next step.

STEP	INSPECTION		ACTION
6	**INSPECT TIGHTENING OF DOOR GLASS TO CARRIER PLATE** • Is it normal?	Yes	Go to the next step.
		No	After tightening correctly, reinspect. If the malfunction is not corrected, go to Step 3.
7	**INSPECT CONDITION OF GLASS RUN CHANNEL AND DOOR GLASS** • Is it normal?	Yes	Go to the next step.
		No	Assemble the glass run channel and door glass securely, and reinspect. If the malfunction is not corrected, go to Step 3.
8	**INSPECT DOOR GLASS CLOSING SPEED** • Does the door glass hesitate at any location?	Yes	Repeat the inspection from Step 3.
		No	Troubleshooting completed.



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