

POWER WINDOW MOTOR

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Purpose

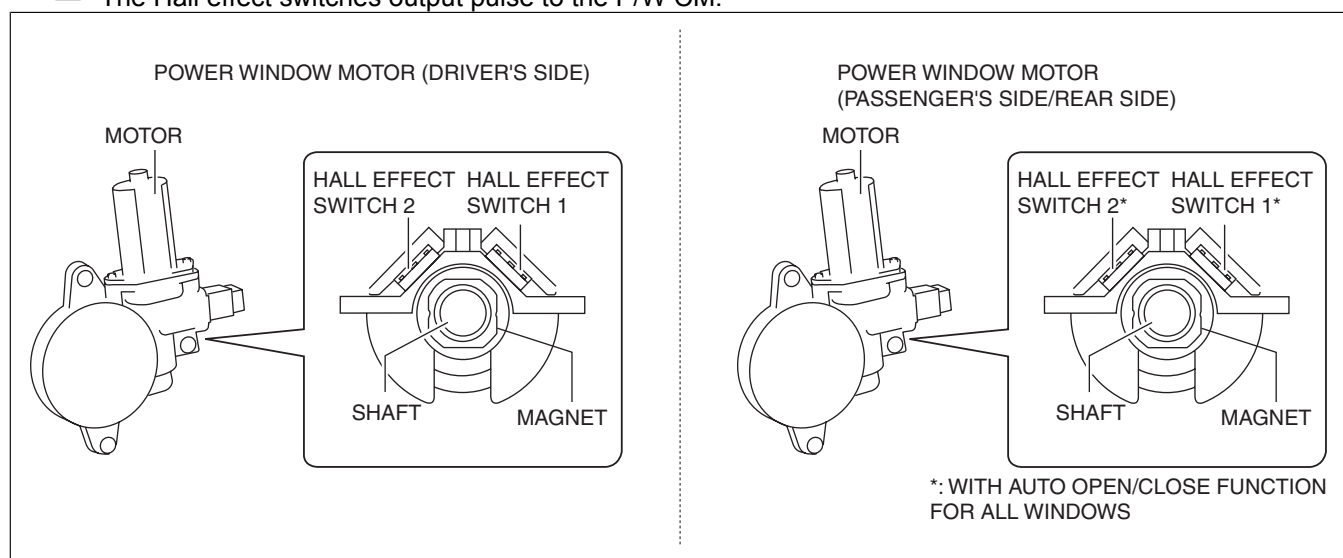
The power window motor transmits rotation force to the power window regulator to open/close the door glass.

Function

The power window motor rotates clockwise/counterclockwise when it receives an open/close signal from the power window main switch or the power window subswitch.

Construction

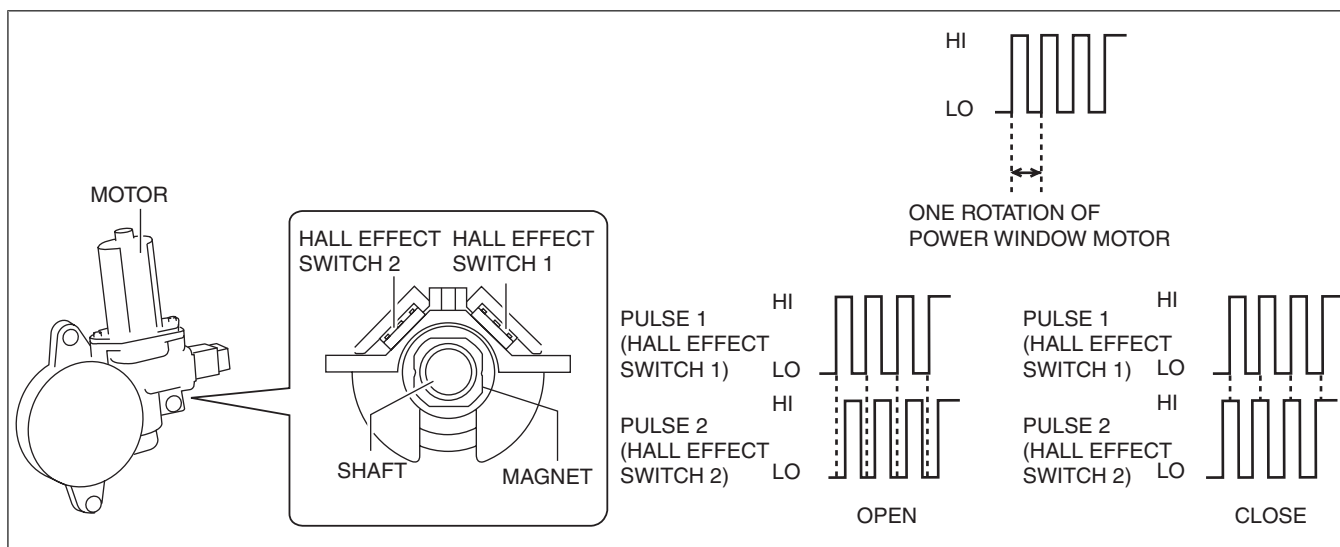
- The power window motor consists of the following parts:
 - Motor
 - Connector
 - Gear
- Two Hall effect switches are located in each power window motor connector. (With auto open/close function for all doors)
 - The Hall effect switches output pulse to the P/W CM.
- Two Hall effect switches are located in the driver's side connector. (With auto open/close function for driver's side door)
 - The Hall effect switches output pulse to the P/W CM.



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Operation

- The Hall effect switch utilizes magnets set on a rotating axis to detect the motor rotation, and outputs a synchronized pulse to the P/W CM.
- The Hall effect switch 1 outputs one pulse cycle for each rotation of the power window motor axle, and the P/W CM detects motor rotation speed.
- Hall effect switch 2 outputs pulse according to the motor rotation in the same manner as Hall effect switch 1. The high and low pulse points of Hall effect switches 1 and 2 are different during opening and closing because the phase difference shifts by 90°, allowing the power window main switch to detect the rotational direction of the power window motor.



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Fail-safe

- Function not equipped.