

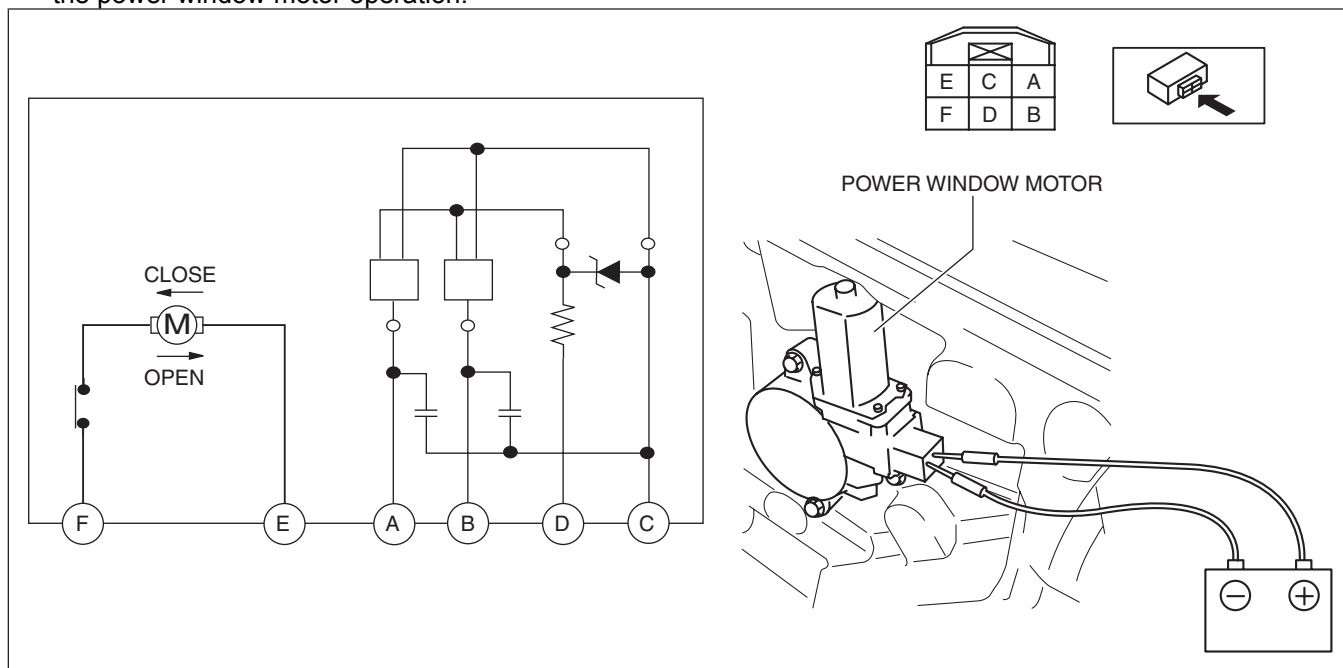
## POWER WINDOW MOTOR INSPECTION

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### Auto-open/close Function For All Windows

#### Front power window motor

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the inner garnish. (See INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Disconnect the power window motor connector.
5. Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.

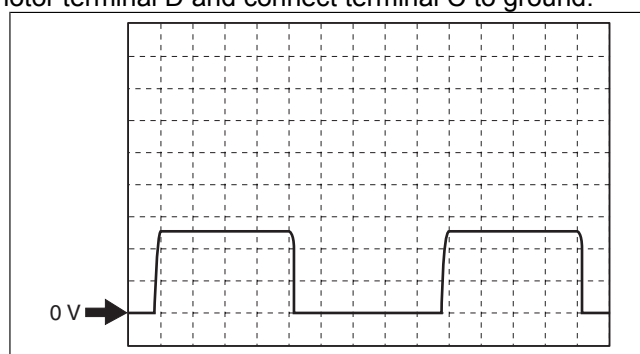


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- If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	B+	Ground
Close	Ground	B+

6. Connect the battery positive voltage to power window motor terminal D and connect terminal C to ground.
7. Operate the power window motor and verify the wave patterns for terminals A and B.
  - Terminal: A, B(+) ↔ ground (-)
  - Oscilloscope setting: 2 V/DIV (Y), 1 ms/DIV (X), DC range
  - If the malfunction, replace the power window motor.

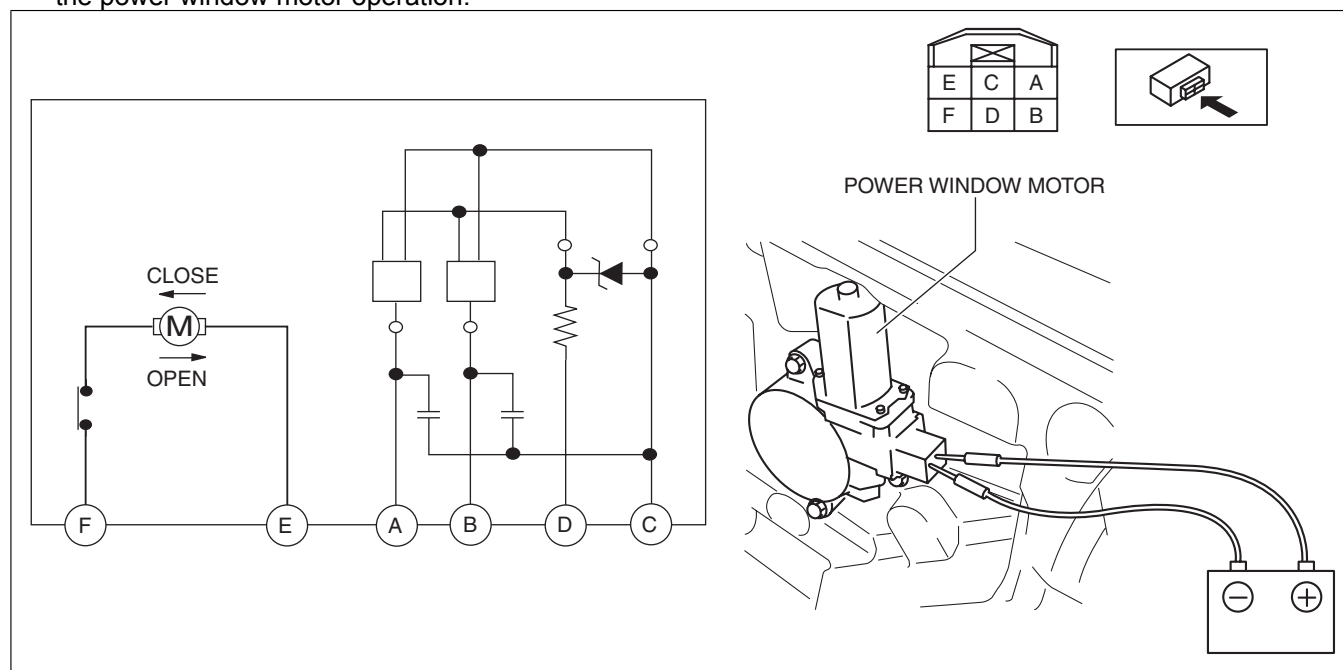


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#### Rear power window motor

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the rear door trim. (See REAR DOOR TRIM REMOVAL/INSTALLATION.)
3. Disconnect the power window motor connector.

4. Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.



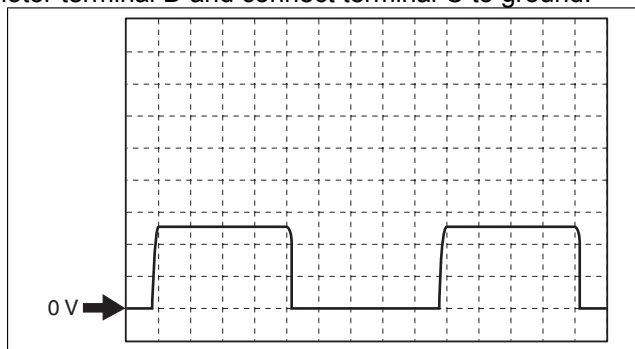
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- If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	B+	Ground
Close	Ground	B+

5. Connect the battery positive voltage to power window motor terminal D and connect terminal C to ground.
6. Operate the power window motor and verify the wave patterns for terminals A and B.

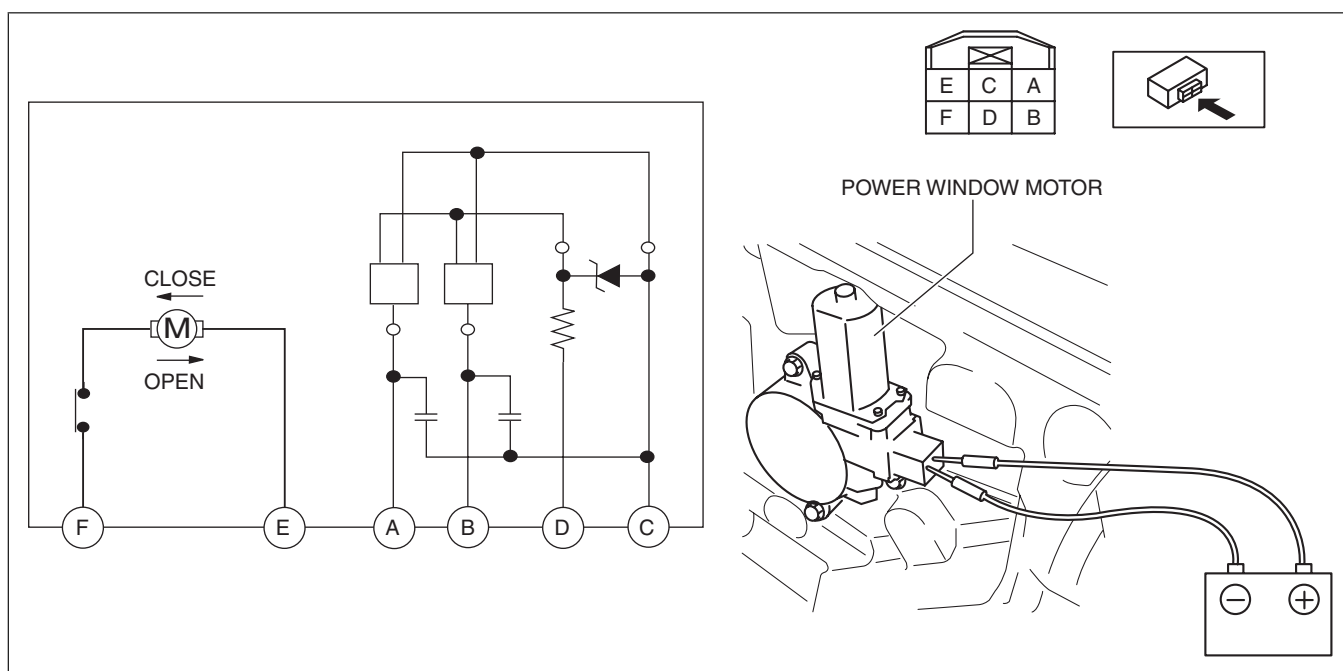
- Terminal:  
A, B(+) ↔ ground (-)
- Oscilloscope setting: 2 V/DIV (Y), 1 ms/DIV (X), DC range
- If the malfunction, replace the power window motor.



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### Auto-open/close Function For Driver-side Front power window motor (for driver-side)

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the inner garnish. (See INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Disconnect the power window motor connector.
5. Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.

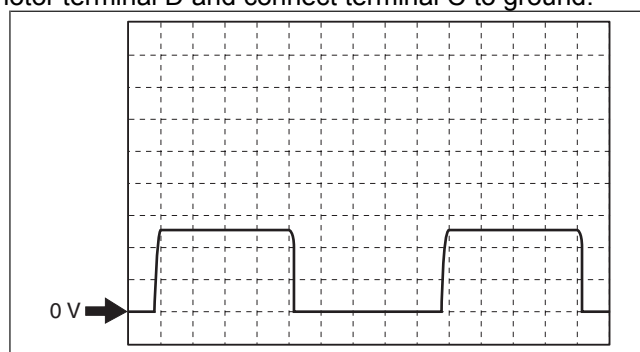


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- If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	B+	Ground
Close	Ground	B+

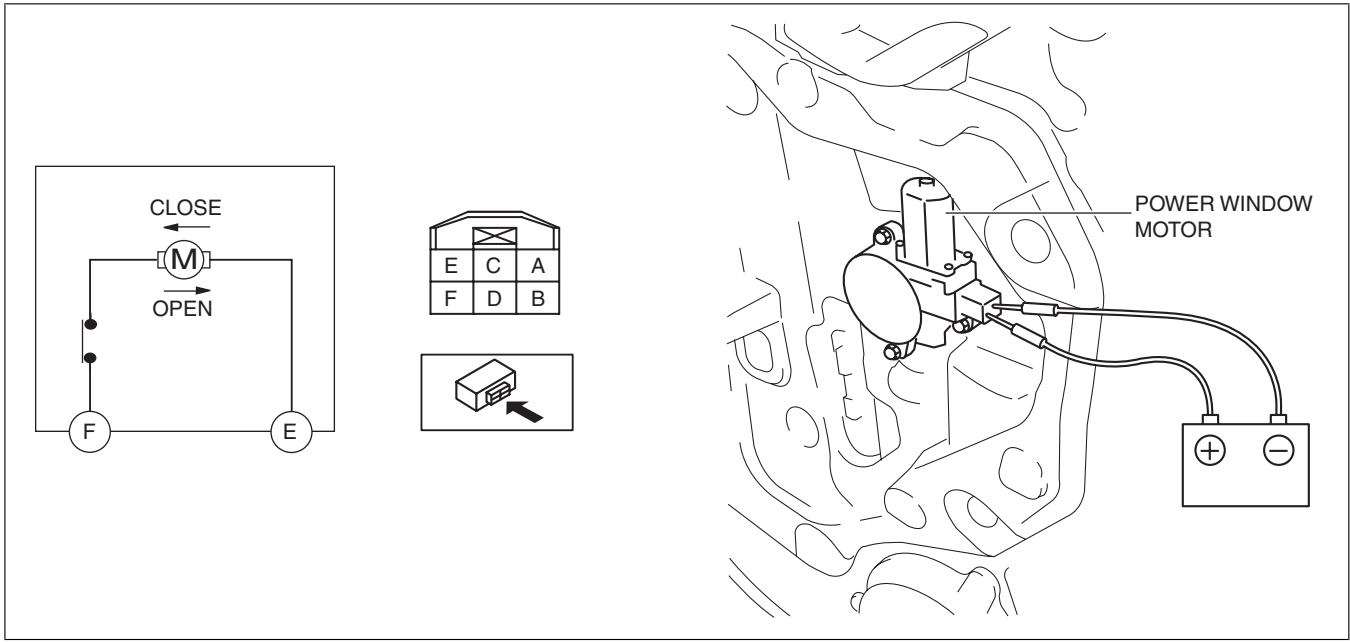
- Connect the battery positive voltage to power window motor terminal D and connect terminal C to ground.
- Operate the power window motor and verify the wave patterns for terminals A and B.
  - Terminal:
    - A, B(+) ↔ ground (-)
  - Oscilloscope setting: 2 V/DIV (Y), 1 ms/DIV (X), DC range
  - If the malfunction, replace the power window motor.



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#### Front power window motor (for passenger-side)

- Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
- Remove the inner garnish. (See INNER GARNISH REMOVAL/INSTALLATION.)
- Remove the front door trim. (See FRONT DOOR TRIM REMOVAL/INSTALLATION.)
- Disconnect the power window motor connector.
- Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.



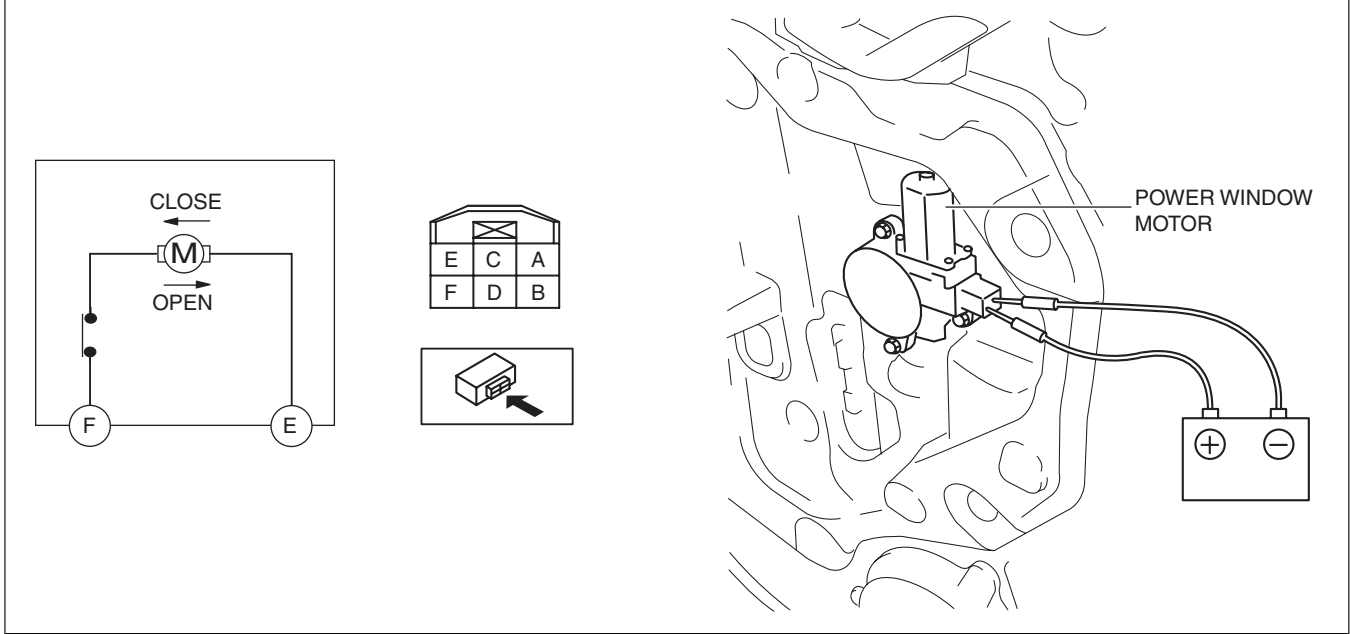
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- If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Close	B+	Ground
Open	Ground	B+

#### Rear power window motor

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the rear door trim (See REAR DOOR TRIM REMOVAL/INSTALLATION.)
3. Disconnect the power window motor connector.
4. Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.



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- If the power window motor does not operate as indicated in the table, replace it.

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Operation	Terminal	
	E	F
Close	B+	Ground
Open	Ground	B+