

8. Front Wiper Motor and Link

A: REMOVAL

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Remove the arm assembly - windshield wiper. <Ref. to WW-29, REMOVAL, Front Wiper Arm.>

3) Remove the cowl panel assembly. <Ref. to EI-61, REMOVAL, Cowl Panel.>

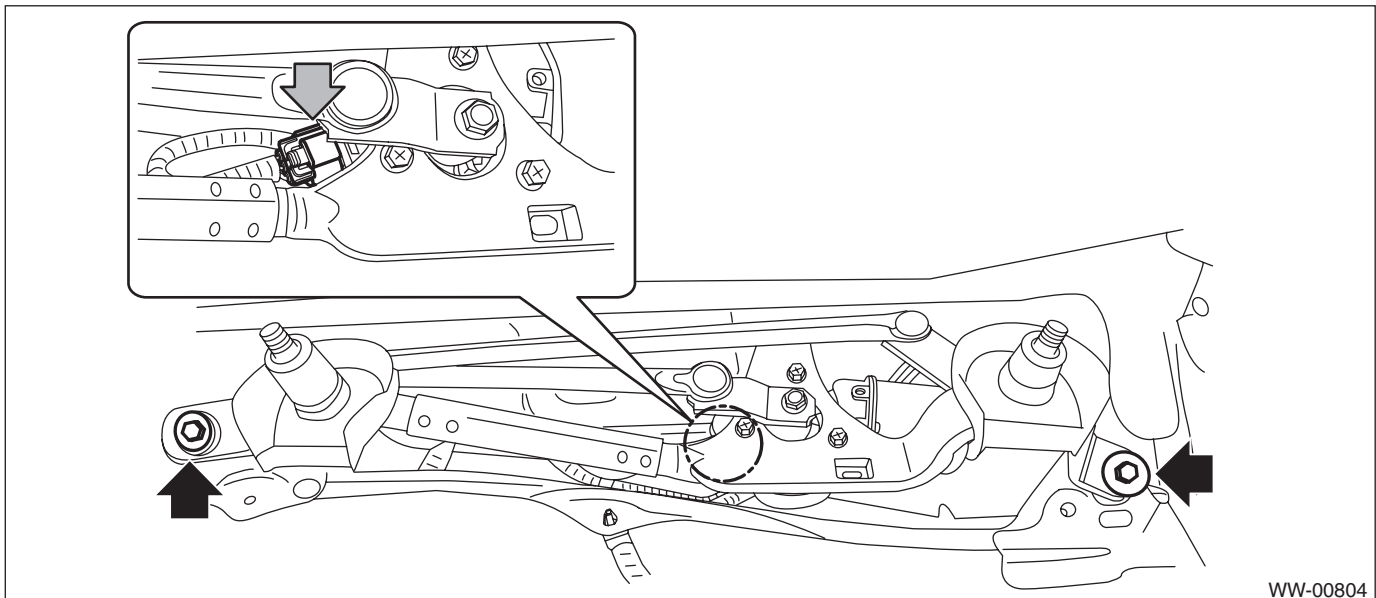
CAUTION:

Before removing the cowl panel, use an air blower and nylon brush to sweep gravel from the lower area of the front side of the glass.

4) Remove the link assembly - windshield wiper.

(1) Disconnect the connector of the motor assembly - windshield wiper.

(2) Remove the bolts and harness clips, and remove the link assembly - windshield wiper.



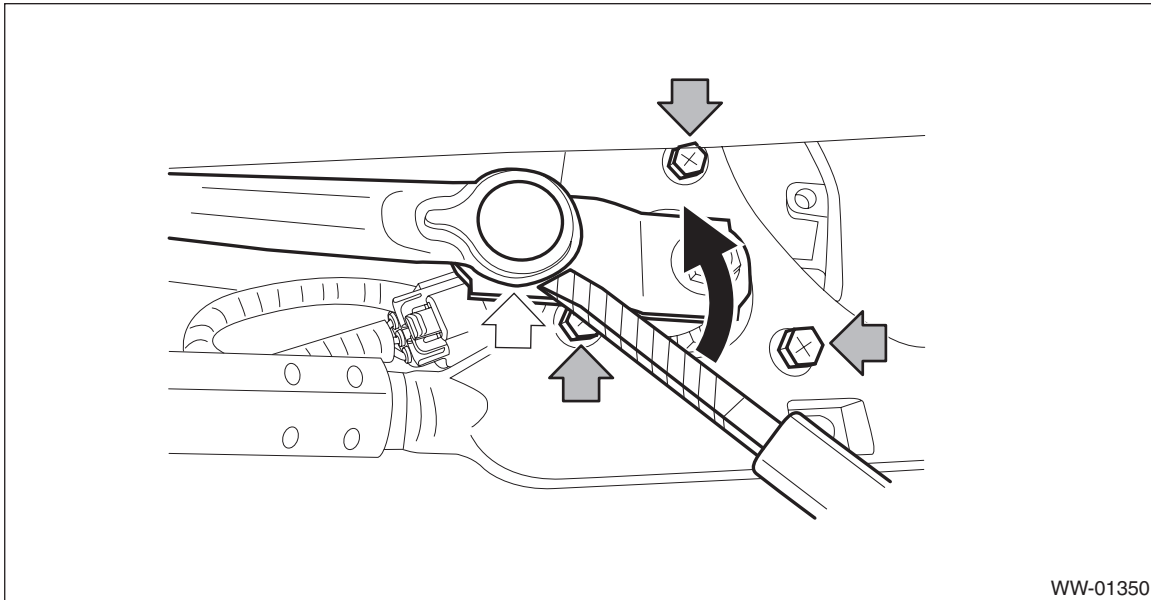
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5) Remove the motor assembly - windshield wiper.

(1) Using a crowbar wrapped with protective tape, disconnect the link assembly - windshield wiper from the link plate.

(2) Remove the bolts, and remove the motor assembly - windshield wiper.



B: INSTALLATION

CAUTION:

Before installing the windshield glass and cowl panel, make sure there are no gravel in the installing area.

1) Connect the battery ground terminal.

2) To confirm that the motor assembly - windshield wiper is at the auto stop position, connect the harness to the motor and turn the wiper switch to ON/OFF once.

CAUTION:

During motor operation, do not touch the movable part.

3) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

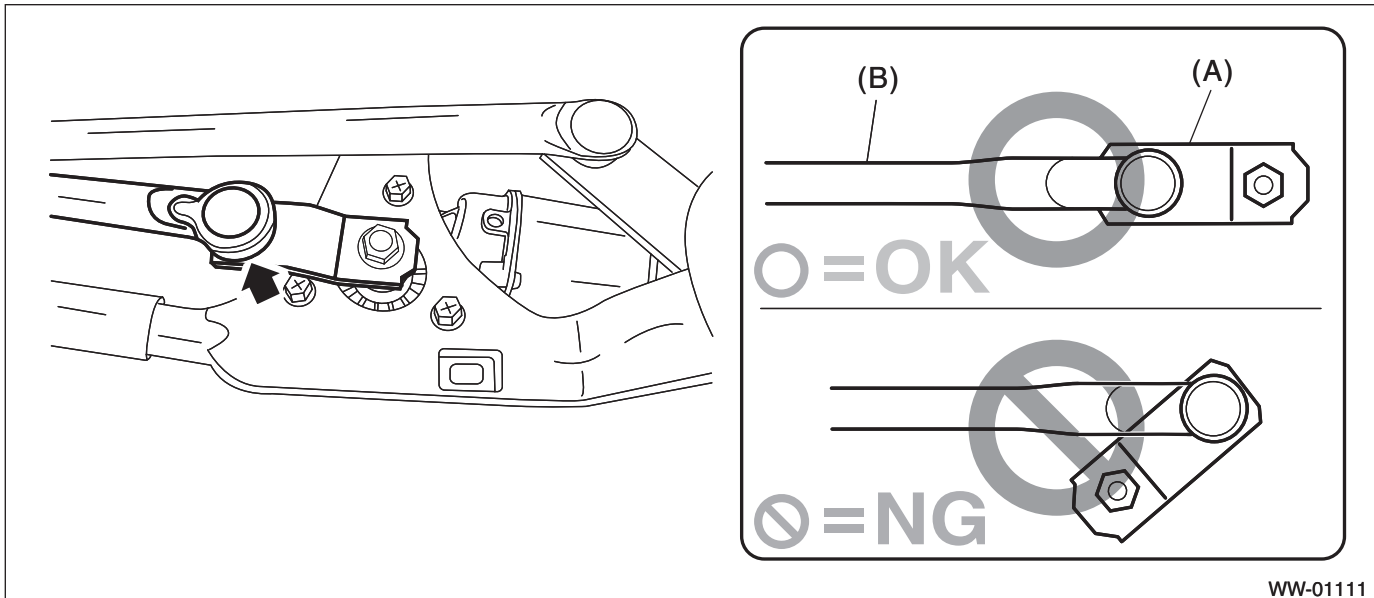
NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

4) Install the motor assembly - windshield wiper.

CAUTION:

Set the component where the rod (B) and link plate (A) is aligned in a straight line.



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5) Install the link assembly - windshield wiper and cowl panel in the reverse order of removal.

Tightening torque:

Refer to “COMPONENT” of “General Description”. <Ref. to WW-2, FRONT WIPER, COMPONENT, General Description.>

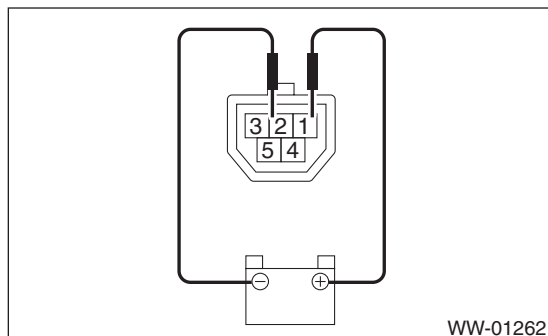
C: INSPECTION

1) Check that the following operations perform normally.

CAUTION:

Fix the motor to prevent the motor from being shorted by moving during operation.

(1) When the battery is connected to the terminal of connectors, confirm that the motor operates at low speed.

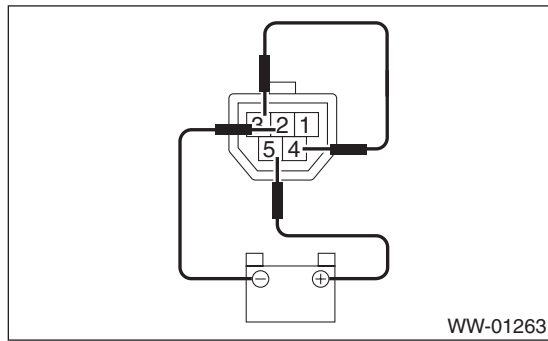


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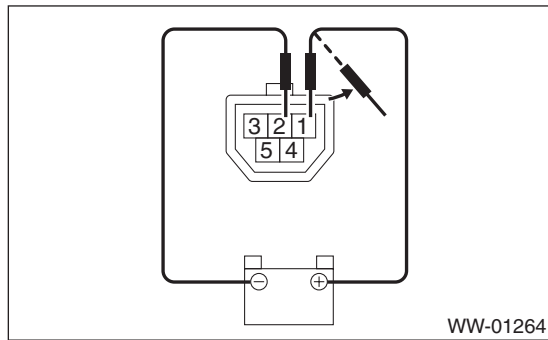
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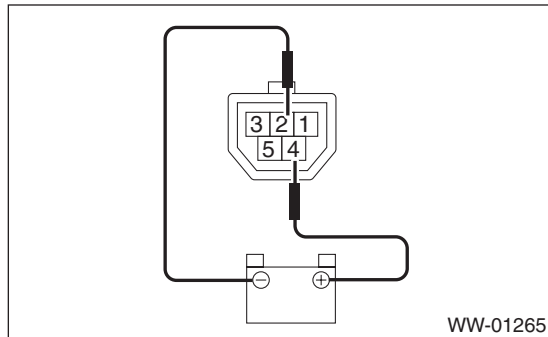
(2) When the battery is connected to the terminal of connectors, confirm that the motor operates at high speed.



(3) Connect the battery to terminals of the connector, and remove the terminal connection with motor rotating at low speed, and stop the motor assembly - windshield wiper in mid-operation.



(4) Connect the battery and check that the motor stops at the automatic stop position after the motor operates at low speed again.



NOTE:

Replace the motor assembly - windshield wiper if the inspection result is not within the standard.

2) Install the motor assembly - windshield wiper. <Ref. to WW-36, INSTALLATION, Front Wiper Motor and Link.>