

20. Wiper Deicer System

A: WIRING DIAGRAM

Refer to “Wiper Deicer System” in the wiring diagram. <Ref. to WI-153, Wiper Deicer System.>

B: INSPECTION

1. CHECK SYSTEM

NOTE:

- The wiper deicer does not operate when the ambient temperature becomes 5°C (41°F) or more.
- The wiper deicer operates with the rear window defogger at the same time.
- It is possible to perform a forced operation if you keep holding the rear window defogger switch for 3 seconds or more.

Symptoms	Inspection order
Wiper deicer does not operate.	1. Check the fuse. 2. Check the wiper deicer relay. 3. Check the wiper deicer switch. 4. Check the heat wire. 5. Check the wiring harness. 6. Check body integrated unit.

NOTE:

- Wiper deicer system can be customized using the Subaru Select Monitor, when the customize setting {Auto A/C ECU Setting} of the body integrated unit is set to {support}.
- Set the system using the Rr Defogger op. mode, and setting will be the same as rear defogger system setting.

System name	Initial setting	Customize setting
Rear defogger operation mode	OFF after 15 min.	Continuous operation*

*: When one of the following conditions occurs, continuous operation is suspended and turned off after 15 minutes.

- Ambient temperature at 5°C (41°F) or more continues for 10 seconds.
- Malfunction occurs on ambient sensor.
- Vehicle speed of 15 km/h (9 MPH) or less continues 15 minutes (OFF when conditions are met)
- Malfunction occurs in CAN communication.
- Battery voltage remains at 10 V or less for 30 seconds.
- SI-DRIVE [I] mode driving continues for 10 seconds.

2. CHECK WITH SUBARU SELECT MONITOR

CAUTION:

Before performing the inspection, check the following settings.

- **Wiper deicer setting** → “support”. If “no support”, set to “support” using customize setting.
- **Rr Defogger op. mode setting** → Initial setting or customize setting.

- 1) Check the input signal when the rear window defogger switch is operated using Subaru Select Monitor.
 - (1) Prepare the Subaru Select Monitor. <Ref. to GW-7, PREPARATION TOOL, General Description.>
 - (2) Turn the ignition switch to ON (engine OFF) and run the “PC application for Subaru Select Monitor”.
 - (3) On «System Selection Menu» display, select {Integ. unit mode}.
 - (4) Select {Auto A/C ECU Setting} from Current Data Display & Save.
 - (5) Check the vehicle equipment and the settings of body integrated unit.
 - Model with manual A/C: Without auto A/C ECM setting
 - Model with auto A/C: With auto A/C ECM setting
- If correct, go to (6).
If not correct, go to (8).
- (6) Select the {wiper deicer output} on {Current Data Display & Save}.
 - (7) Check the displayed data (ON/OFF) by operating the rear window defogger switch.

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(8) On the system selection menu display, select the body integrated unit mode. Select customize from work support, then select {Auto A/C ECU Setting}. Match the auto A/C ECM setting to the actual vehicle equipment.

2) Check the operation with rear window defogger switch ON.

- When customize setting is set as “Continuous”, it is normal if the 15-minute operation and 2-minute stop repeats.

- When customize setting is “Normal”, it is normal if the operation lasts for 15 minutes and then turns OFF.

3) When the operation in 2) above fails, replace the body integrated unit.

3. HEAT WIRE INSPECTION

Refer to “HEAT WIRE INSPECTION” of “Rear Window Defogger System”. <Ref. to GW-52, HEAT WIRE INSPECTION, INSPECTION, Rear Window Defogger System.>

NOTE:

Heat wire inspection needs removing/installing procedure of instrument panel assembly.

C: REPAIR

Refer to “REPAIR” of “Rear Window Defogger System”. <Ref. to GW-53, REPAIR, Rear Window Defogger System.>

NOTE:

Heat wire repair needs removing/installing procedure of instrument panel assembly.

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