

15.Rear Window Defogger

A: WIRING DIAGRAM

<Ref. to WI-136, WIRING DIAGRAM, Rear Defogger System.>

B: INSPECTION

1. SYSTEM INSPECTION

Symptoms	Repair order
Rear window defogger does not operate.	1. Check the fuse. 2. Check the rear defogger relay. 3. Check the rear defogger switch. 4. Check the heat wire. 5. Check the wiring harness. 6. Check body integrated unit.

NOTE:

Rear window defogger system can be customized on the Subaru Select Monitor, when the body integrated unit customize setting {A/C ECM setting} is "support". (Auto A/C model)

System name	Initial setting	Customize setting
Rr defogger op. mode	OFF after 15 min.	Repeat 15 min. operation and 2 min. stop.

2. CHECK WITH SUBARU SELECT MONITOR

CAUTION:

Check whether the "Rr defogger op. mode" setting is in initial setting or customize setting before performing inspection.

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-6, 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 the {Rr defogger output} on {Current Data Display & Save}.

(5) Check the displayed data (ON/OFF) by operating the rear window defogger switch.

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

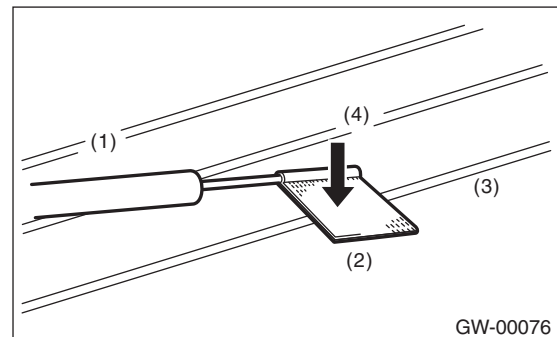
CAUTION:

When wiping off the stain on glass with cloth, use a dry and soft cloth and move it in the direction of the heat wire extension to avoid damage to the heat wire.

1) Turn the ignition switch to ON.

2) Turn the defogger switch to ON.

3) Wrap the tips of tester probe with aluminum foil to avoid damage to heat wire.



(1) Tester probe

(2) Aluminum foil

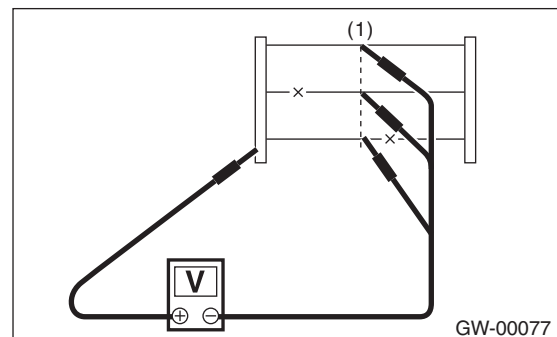
(3) Heat wire

(4) Press

4) Measure the voltage at heat wire center (1) with DC voltmeter.

Standard voltage:

Approx. 6 V



Voltage	Criteria
Approx. 6 V	Normal operation
Approx. 12 V or 0 V	Open

NOTE:

- If the measured value is 12 V, heat wire is open between heat wire center and positive (+) terminal of tester probe.

- If it is 0 V, the circuit is open between heat wire center and ground.

Rear Window Defogger

GLASS/WINDOWS/MIRRORS

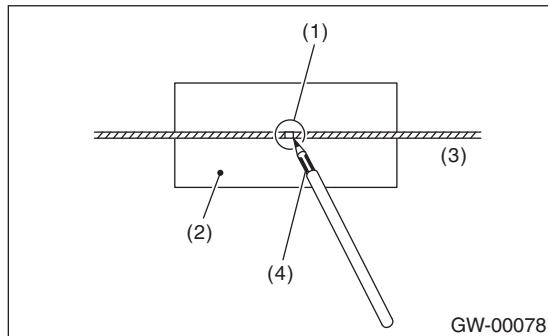
5) Connect the tester probe of positive lead of volt-meter to positive terminal of heat wire and move tester probe of negative lead along the heat wire up to the negative terminal end. If voltage changes from zero to several volts during movement of tester probe, heat wire is open at the voltage change point.

C: REPAIR

1) Clean the broken portion with alcohol or white gasoline.

2) Mask both side of wire with thin film.

3) Apply conductive silver composition (DUPONT No. 4817) to the broken area.



- (1) Broken portion
- (2) Thin film
- (3) Broken wire
- (4) Conductive silver composition
(DUPONT No. 4817)

4) After repair, check the wire.