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2018 Lexus LX 570 Service and Repair Manual

[Go to manual page](#)

Last Modified: 10-07-2024	6.11:8.1.0	Doc ID: RM100000002FJBR
Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: HEATING / AIR CONDITIONING: FRONT EVAPORATOR TEMPERATURE SENSOR: INSPECTION; 2024 MY GX550 [12/2023 -]		

INSPECTION

PROCEDURE

1. INSPECT NO. 1 COOLER THERMISTOR

(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	-10°C (14°F)	7.30 to 9.10 kΩ
1 - 2	-5°C (23°F)	5.65 to 6.95 kΩ
1 - 2	0°C (32°F)	4.40 to 5.35 kΩ
1 - 2	5°C (41°F)	3.40 to 4.15 kΩ
1 - 2	10°C (50°F)	2.70 to 3.25 kΩ
1 - 2	15°C (59°F)	2.14 to 2.58 kΩ
1 - 2	20°C (68°F)	1.71 to 2.05 kΩ
1 - 2	25°C (77°F)	1.38 to 1.64 kΩ
1 - 2	30°C (86°F)	1.11 to 1.32 kΩ

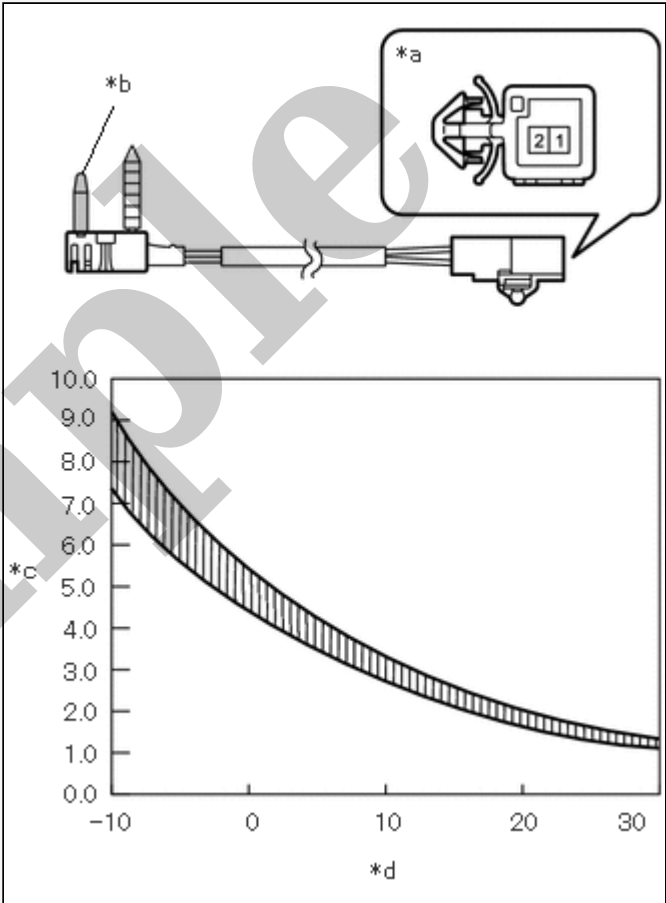
NOTICE:

- Hold the sensor only by its connector. Touching the sensor may change the resistance value.
- Perform the measurement once the sensor has adapted to the ambient temperature.

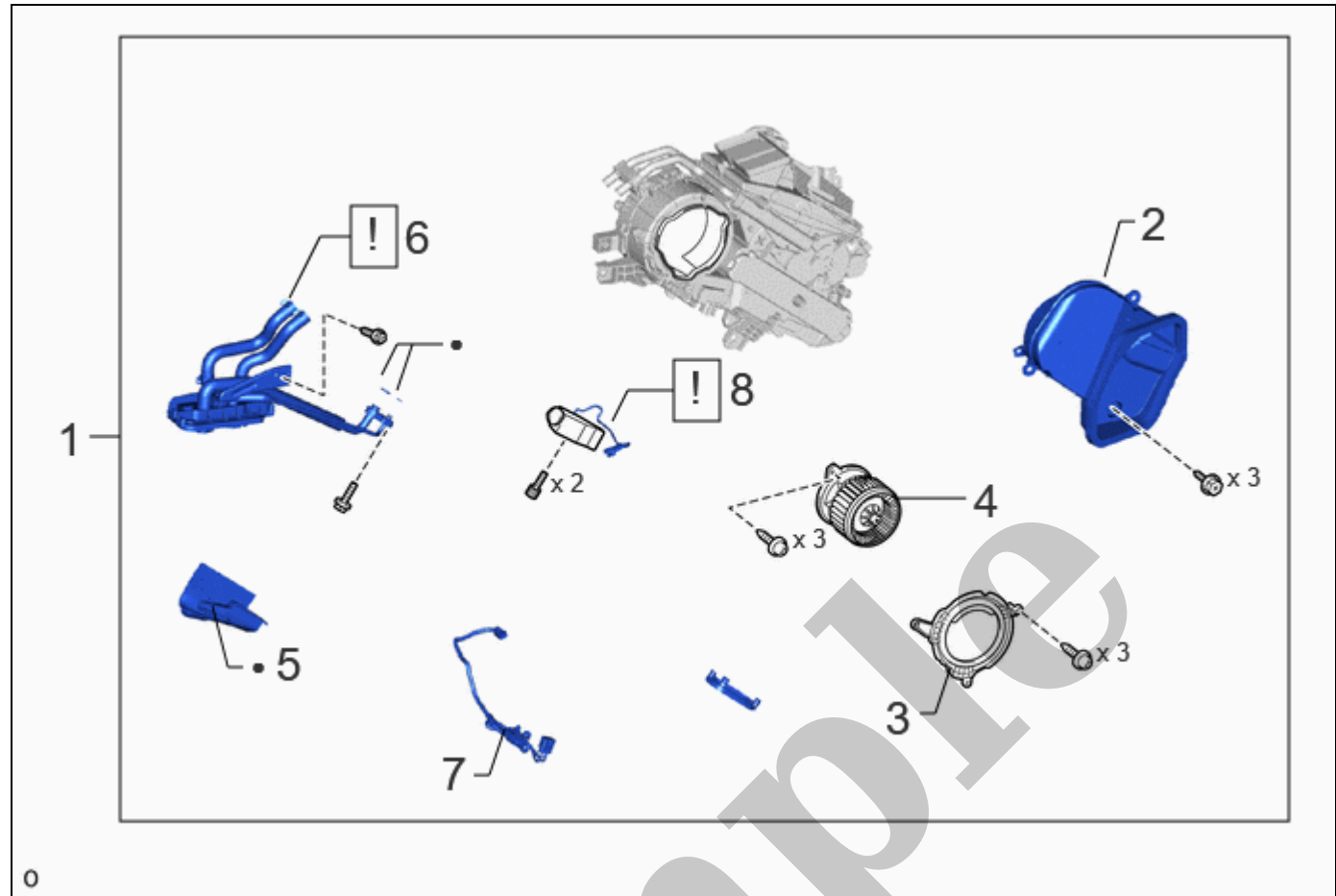
HINT:

As the temperature increases, the resistance decreases (see the graph).

If the result is not as specified, replace the No. 1 cooler thermistor.

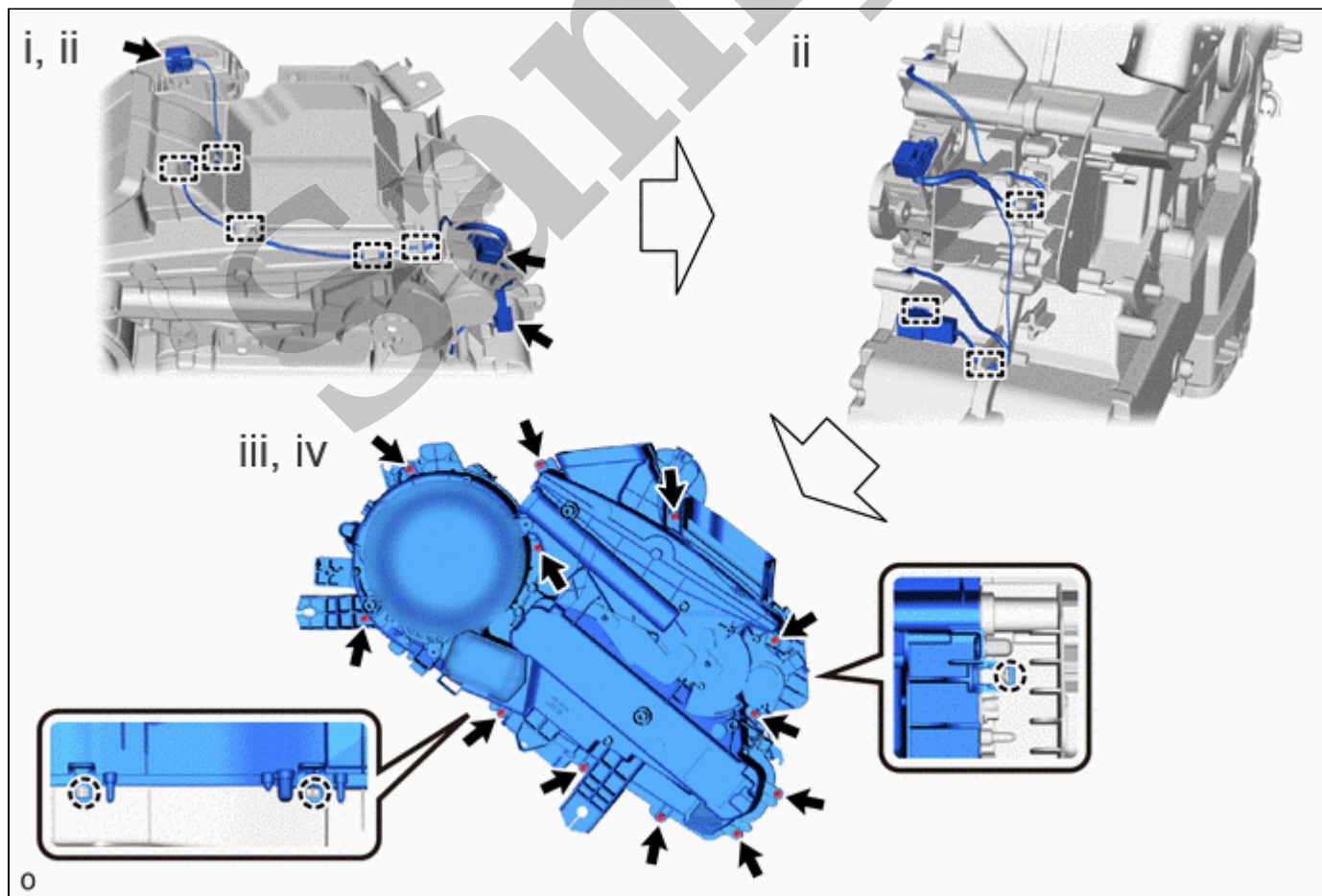


*a	Component without harness connected (No. 1 Cooler Thermistor)
*b	Sensing Portion
*c	Resistance (kΩ)
*d	Temperature (°C (°F))



PROCEDURE		PART NAME CODE			
1	REAR COOLING UNIT ASSEMBLY	87030A	-	-	-
2	REAR AIR DUCT	87212C	-	-	-
3	HEATER BLOWER COVER	87236C	-	-	-
4	REAR BLOWER MOTOR WITH FAN SUB-ASSEMBLY	87103D	-	-	-
5	NO. 2 COOLING UNIT PACKING	88578C	-	-	-
6	AIR CONDITIONING TUBE ASSEMBLY	88710C	INFO	-	-
7	NO. 2 AIR CONDITIONING HARNESS ASSEMBLY	82210L	-	-	-
8	REAR COOLING UNIT EXPANSION VALVE	88515B	INFO	-	-

•	Non-reusable part	-	-
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6. REMOVE AIR CONDITIONING TUBE ASSEMBLYClick here [INFO](#)**7. REMOVE NO. 2 AIR CONDITIONING HARNESS ASSEMBLY**Click here [INFO](#)**8. REMOVE REAR COOLING UNIT EXPANSION VALVE**Click here [INFO](#)**9. REMOVE HEATER RADIATOR UNIT SUB-ASSEMBLY**Click here [INFO](#)**10. REMOVE HEATER CLAMP**Click here [INFO](#)**11. REMOVE EVAPORATOR SUB-ASSEMBLY (REAR)**

Last Modified: 10-07-2024	6.11:8.1.0	Doc ID: RM100000002FJBU
Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: HEATING / AIR CONDITIONING: REAR EVAPORATOR TEMPERATURE SENSOR: INSPECTION; 2024 MY GX550 [12/2023 -]		

INSPECTION

PROCEDURE

1. INSPECT AIR CONDITIONING WIRING HARNESS SUB-ASSEMBLY

- (a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(K12\).](#)

[Click Connector\(K12\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K12-7 (-) - K12-8 (+)	-10°C (14°F)	7.40 to 9.20 kΩ
K12-7 (-) - K12-8 (+)	-5°C (23°F)	5.65 to 7.00 kΩ
K12-7 (-) - K12-8 (+)	0°C (32°F)	4.35 to 5.40 kΩ
K12-7 (-) - K12-8 (+)	5°C (41°F)	3.40 to 4.20 kΩ
K12-7 (-) - K12-8 (+)	10°C (50°F)	2.68 to 3.30 kΩ
K12-7 (-) - K12-8 (+)	15°C (59°F)	2.10 to 2.60 kΩ
K12-7 (-) - K12-8 (+)	20°C (68°F)	1.66 to 2.10 kΩ
K12-7 (-) - K12-8 (+)	25°C (77°F)	1.32 to 1.66 kΩ
K12-7 (-) - K12-8 (+)	30°C (86°F)	1.05 to 1.35 kΩ

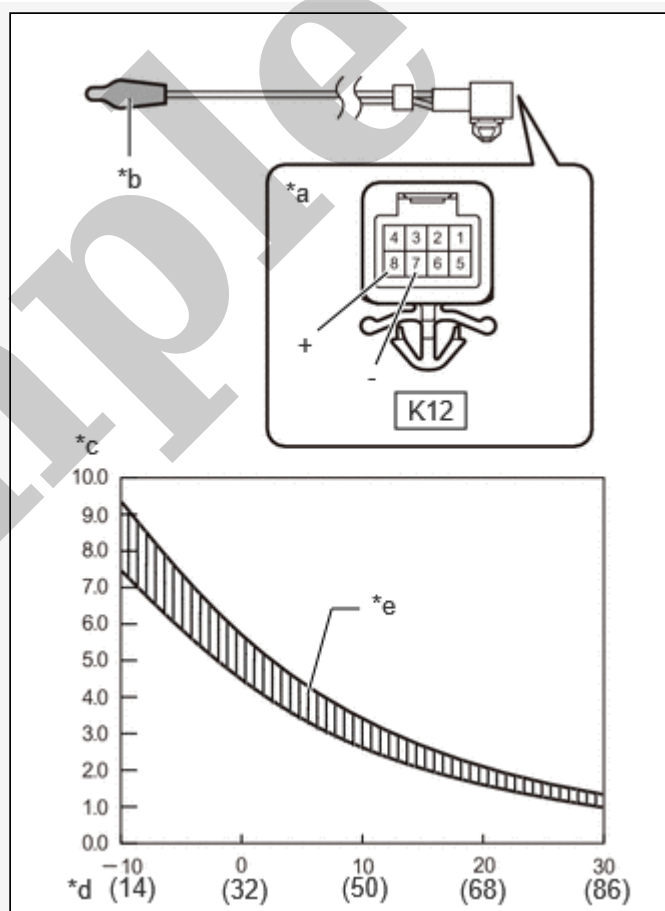
NOTICE:

- Hold the sensor only by its connector. Touching the sensing portion may change the resistance value.
- When measuring, the sensor temperature must be the same as the ambient temperature.

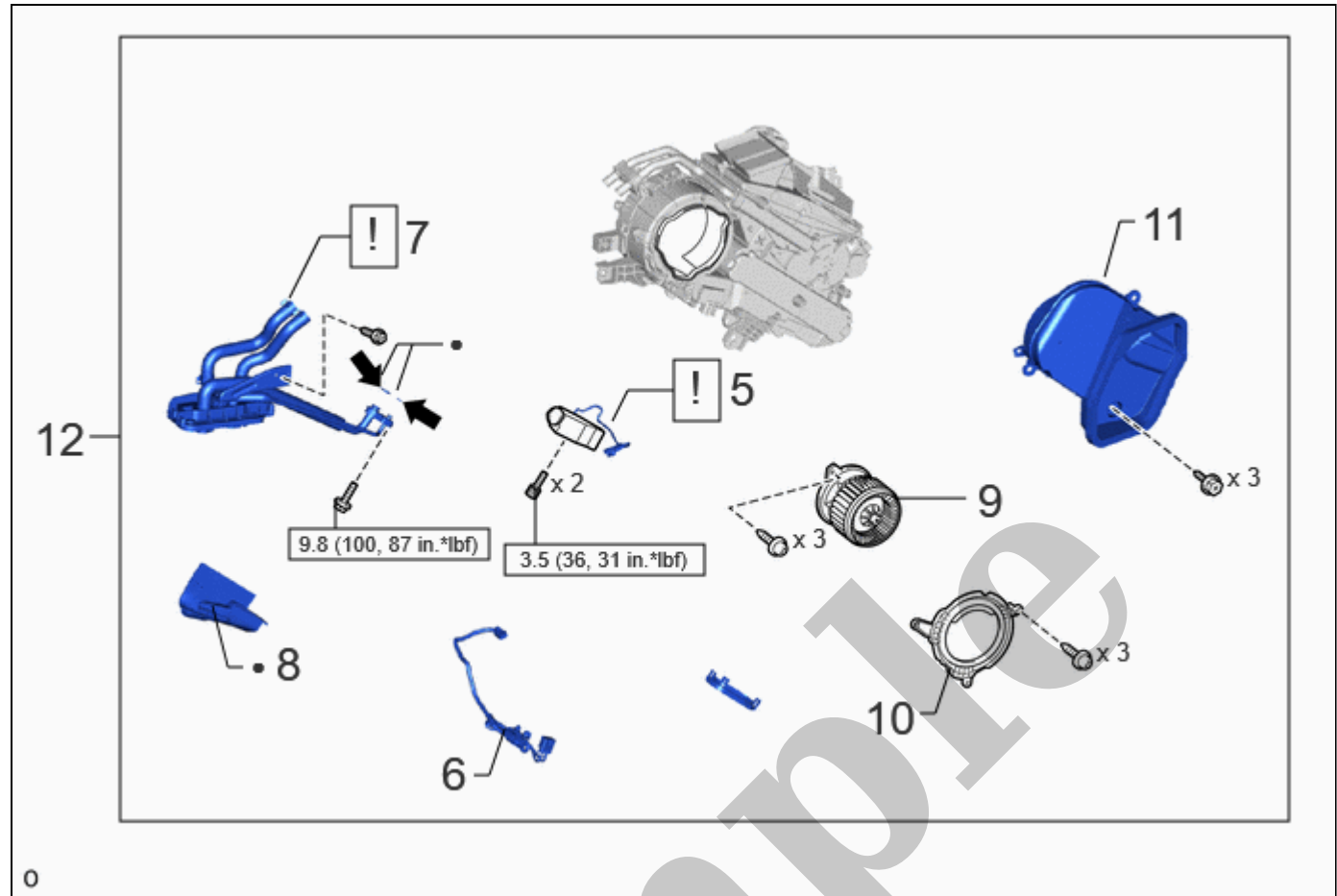
HINT:

As the temperature increases, the resistance decreases (see the graph).

If the result is not as specified, replace the air conditioning wiring harness sub-assembly.



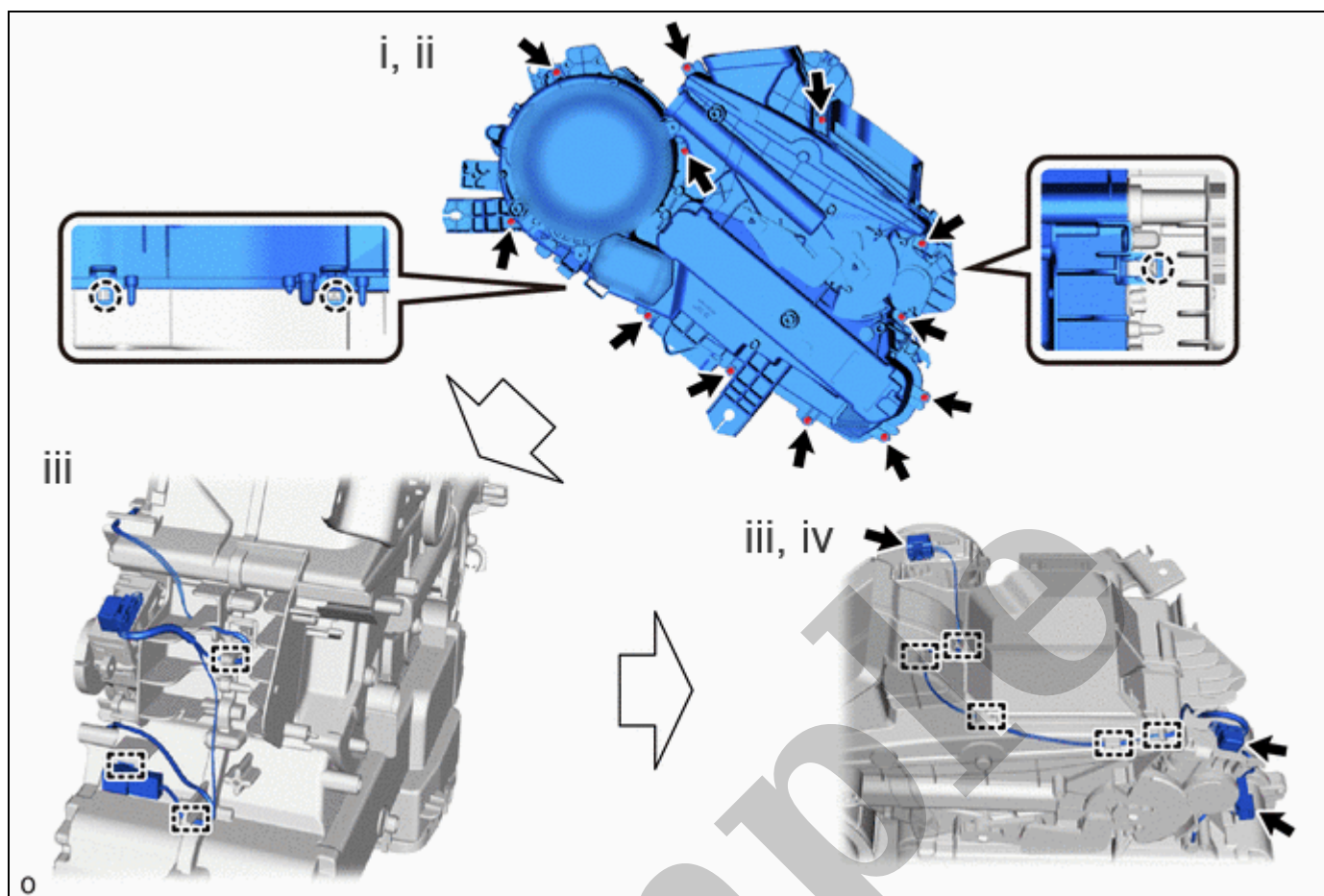
*a	Component without harness connected (Air Conditioning Wiring Harness Sub-assembly)
*b	Sensing Portion
*c	Resistance (kΩ)
*d	Temperature (°C (°F))
*e	Allowable Range



PROCEDURE		PART NAME CODE			
5	REAR COOLING UNIT EXPANSION VALVE	88515B	INFO	-	-
6	NO. 2 COOLER WIRING HARNESS SUB-ASSEMBLY	82210L	-	-	-
7	AIR CONDITIONING TUBE ASSEMBLY	88710C	INFO	-	-
8	NO. 2 COOLING UNIT PACKING	88578C	INFO	-	-
9	REAR BLOWER MOTOR WITH FAN SUB-ASSEMBLY	87103D	-	-	-
10	HEATER BLOWER COVER	87236C	-	-	-
11	REAR AIR DUCT	87212C	INFO	-	-
12	REAR COOLING UNIT ASSEMBLY	87030A	-	-	-

	N*m (kgf*cm, ft.*lbf): Specified torque	Non-reusable part
	Compressor oil ND-OIL 12 or equivalent	-

PROCEDURE



- (1) Attach the claw and install the rear cooling unit case LH.
- (2) Install the 12 screws.
- (3) Attach the clamp.
- (4) Connect the 3 connectors.

3. INSTALL HEATER CLAMP

4. INSTALL HEATER RADIATOR UNIT SUB-ASSEMBLY

5. INSTALL REAR COOLING UNIT EXPANSION VALVE



Click here [INFO](#)

6. INSTALL NO. 2 AIR CONDITIONING HARNESS ASSEMBLY

7. INSTALL AIR CONDITIONING TUBE ASSEMBLY

8. INSTALL NO. 2 COOLING UNIT PACKING



Click here [INFO](#)

9. INSTALL REAR BLOWER MOTOR WITH FAN SUB-ASSEMBLY

10. INSTALL HEATER BLOWER COVER

Last Modified: 10-07-2024	6.11:8.1.0	Doc ID: RM100000002FJBW
Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: HEATING / AIR CONDITIONING: SOLAR SENSOR: ON-VEHICLE INSPECTION; 2024 MY GX550 [12/2023 -]		

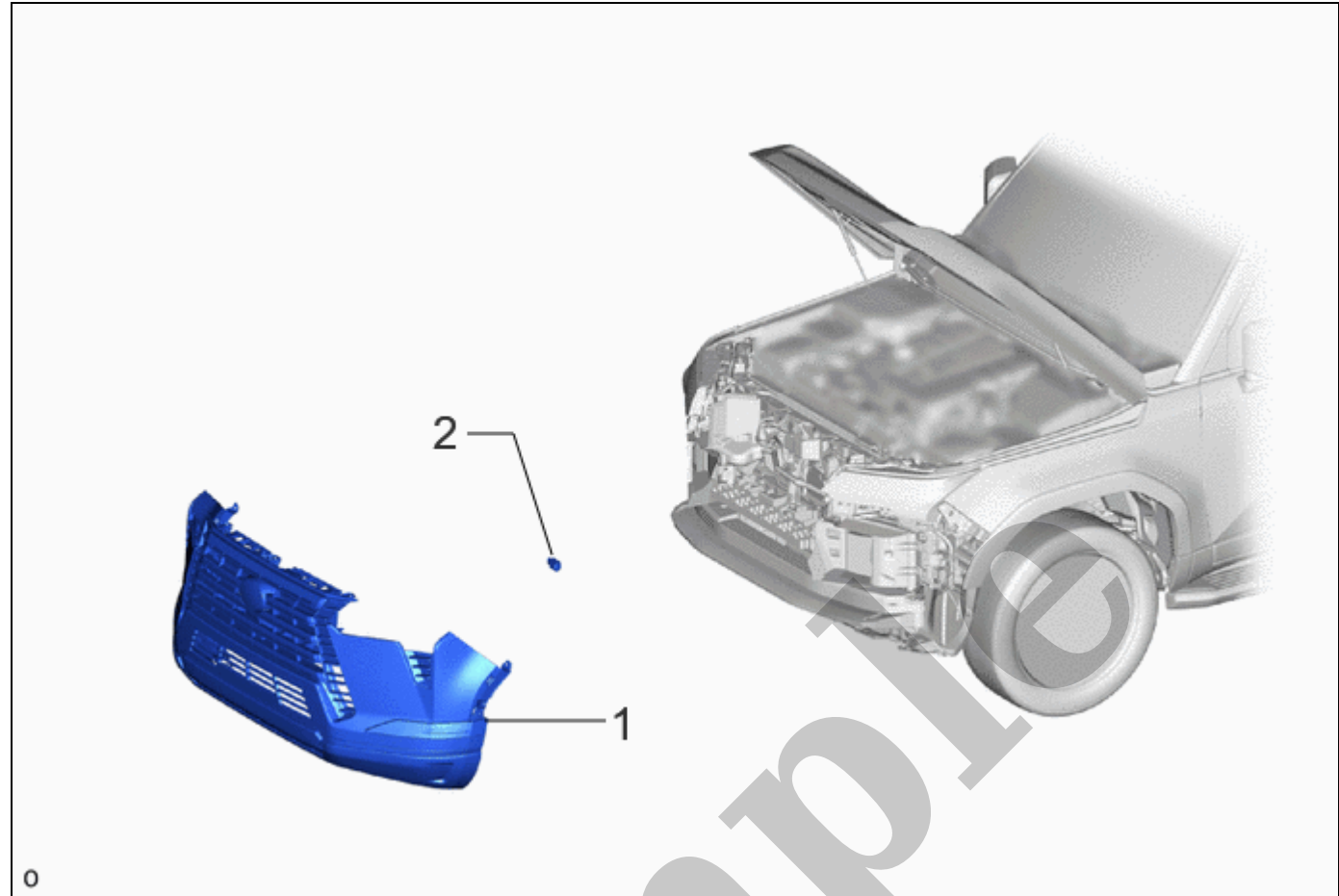
ON-VEHICLE INSPECTION

PROCEDURE

1. INSPECT AUTOMATIC LIGHT CONTROL SENSOR (SOLAR SENSOR)

Click here [INFO](#)

Sample



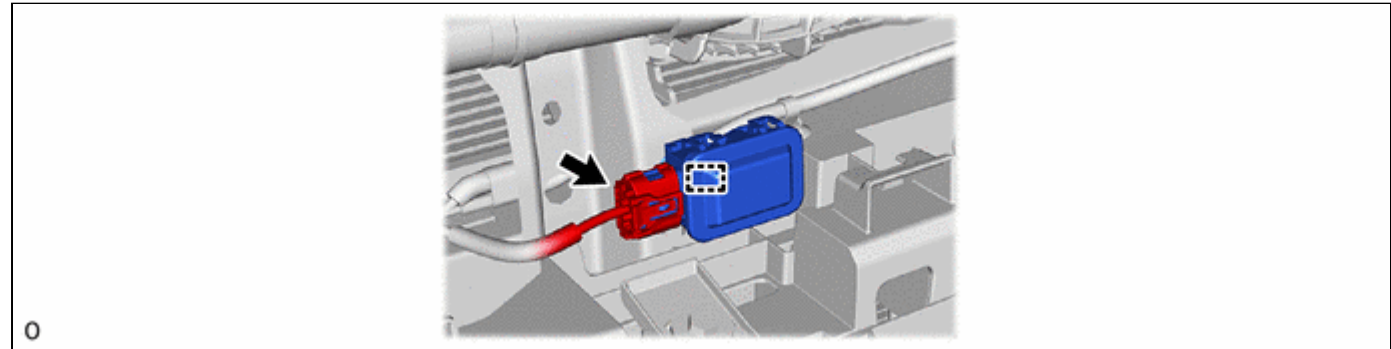
PROCEDURE		PART NAME CODE			
1	FRONT BUMPER ASSEMBLY	-	-	-	-
2	SMOG VENTILATION SENSOR	88898J	-	-	-

PROCEDURE

1. REMOVE FRONT BUMPER ASSEMBLY

Click here [INFO](#)

2. REMOVE SMOG VENTILATION SENSOR



*a	Component without harness connected (Smog Ventilation Sensor)	-	-
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(2) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(A27\).](#)
[Click Connector\(A27\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A27-2 (DGS1) - A27-4 (SG)	Blowing clean air with temperature at 20°C and 65% humidity	1.25 to 80 kΩ

If the result is not as specified, there may be a malfunction in the smog ventilation sensor.