

21. Ambient Sensor

A: REMOVAL

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

NOTE:

For models other than STI model, disconnect the ground terminal from battery sensor.

- 2) Lift up the vehicle.

- 3) Remove the under cover - front. <Ref. to EI-21, REMOVAL, Front Under Cover.>

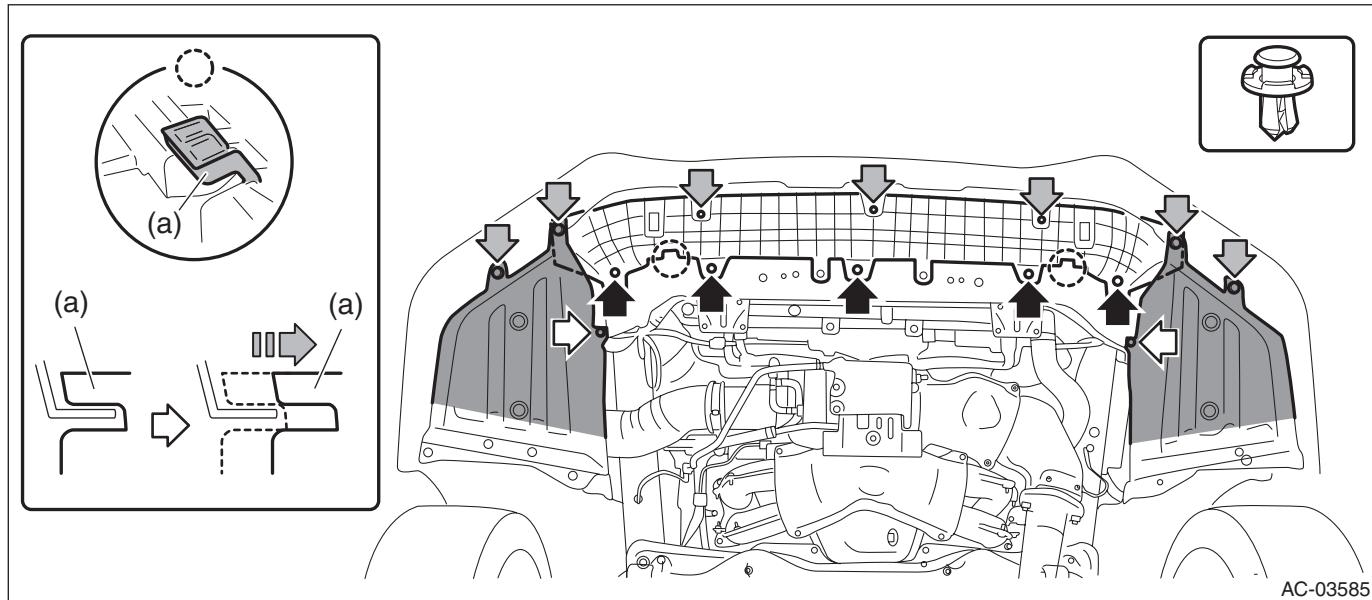
- 4) Remove the bracket – front center LWR.

(1) Remove the screw and clips, and turn over the mud guard - front.

(2) Remove the bolts and clips, and remove the bracket – front center LWR.

NOTE:

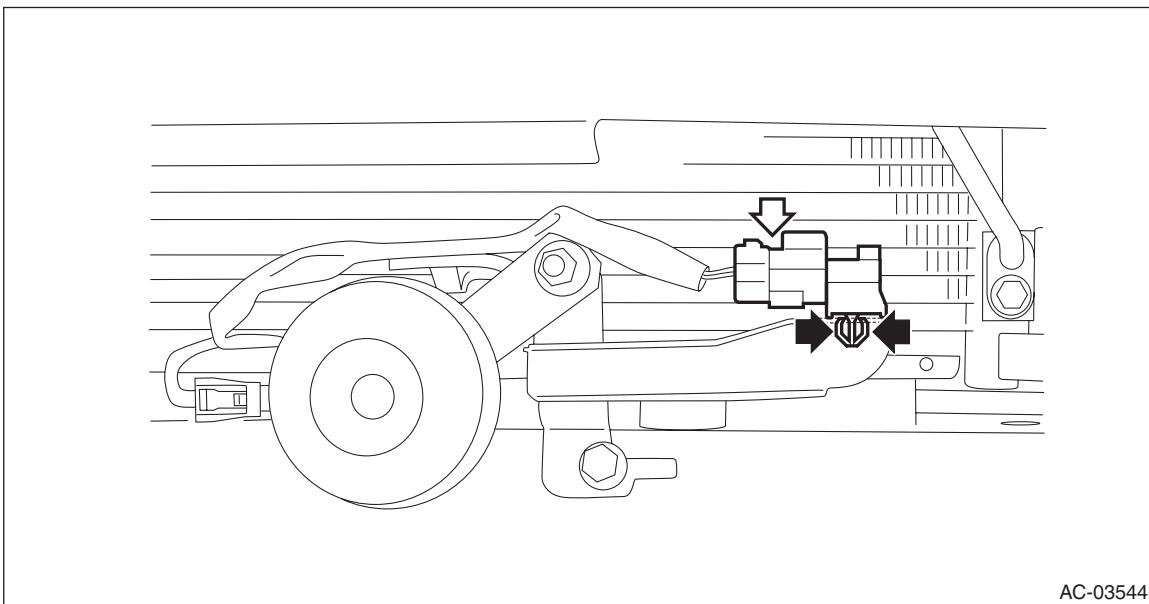
While entirely pushing the bracket – front center LWR forward, remove the two hooks (a) on the left and right.



- 5) Remove the ambient sensor.

(1) Disconnect the connector.

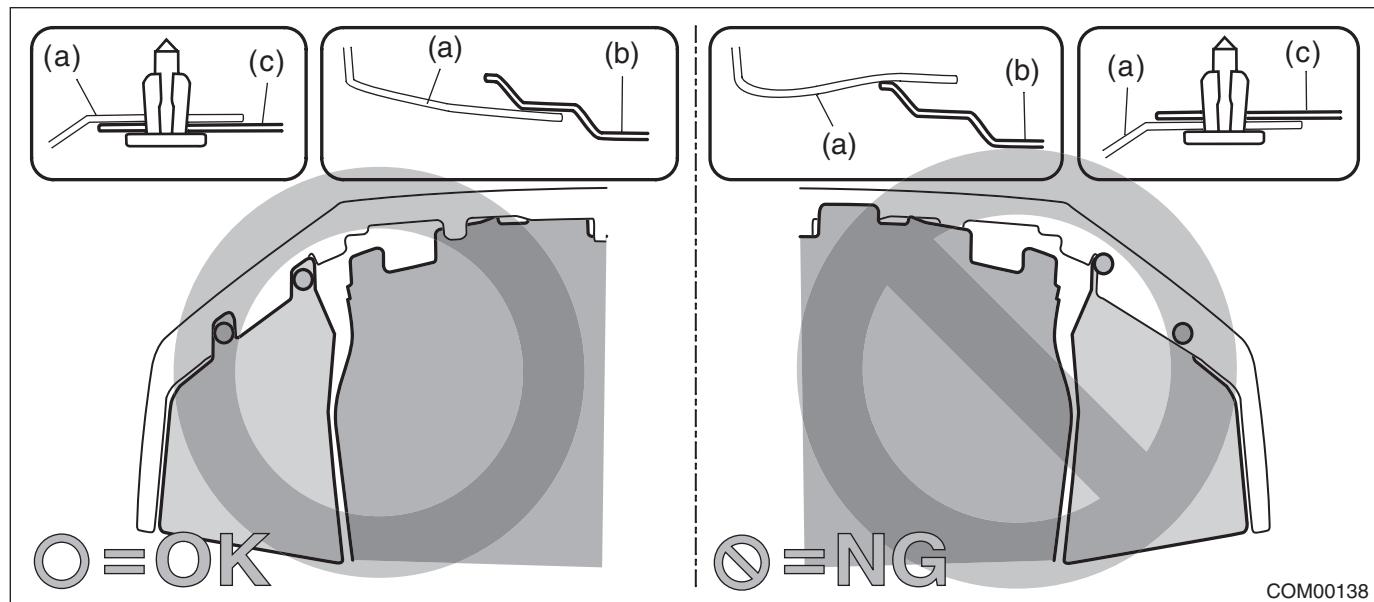
(2) Release the claws and remove the ambient sensor.



B: INSTALLATION

CAUTION:

Install so that the front end of the under cover (b) comes inside the bumper face - front (a), and the front end of the mud guard (c) comes outside the bumper face - front (a).



- 1) Install the ambient sensor.
- 2) Install the bracket – front center LWR.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

- 3) Install the under cover - front.

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)

- 4) Lower the vehicle.
- 5) Connect the battery ground terminal. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For models other than STI model, connect the ground terminal to battery sensor.

Ambient Sensor

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

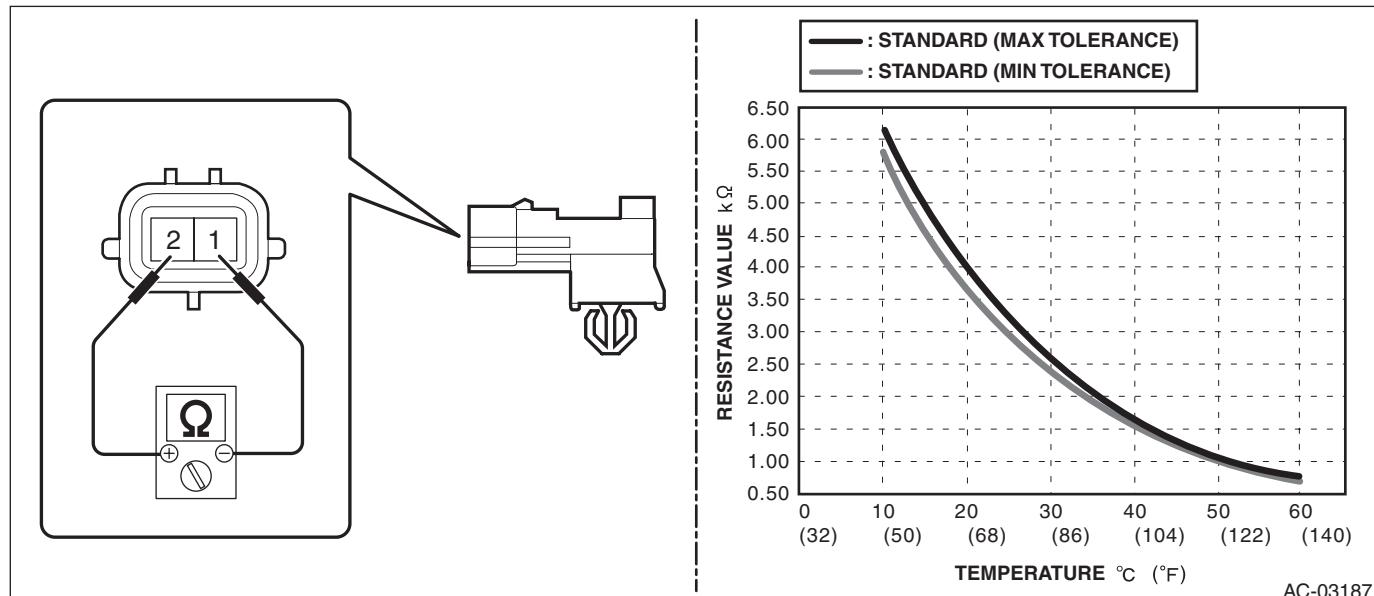
C: INSPECTION

- 1) Visually check the ambient sensor for dirt or damage, and clean or replace as necessary.
- 2) Measure the resistance between connector terminals.

CAUTION:

During inspection, be careful not to touch the sensor end in order to avoid misjudgment due to body temperature.

Preparation tool:
Circuit tester



Terminal No.	Inspection conditions	Standard
1 — 2	10°C	5.82 — 6.18 kΩ
	15°C	4.58 — 4.87 kΩ
	20°C	3.64 — 3.86 kΩ
	25°C	2.91 — 3.09 kΩ
	30°C	2.35 — 2.49 kΩ
	35°C	1.9 — 2.02 kΩ
	40°C	1.56 — 1.65 kΩ
	45°C	1.28 — 1.36 kΩ
	50°C	1.06 — 1.12 kΩ
	55°C	0.88 — 0.93 kΩ
	60°C	0.74 — 0.78 kΩ

- 3) Replace the ambient sensor if the inspection result is not within the standard value.