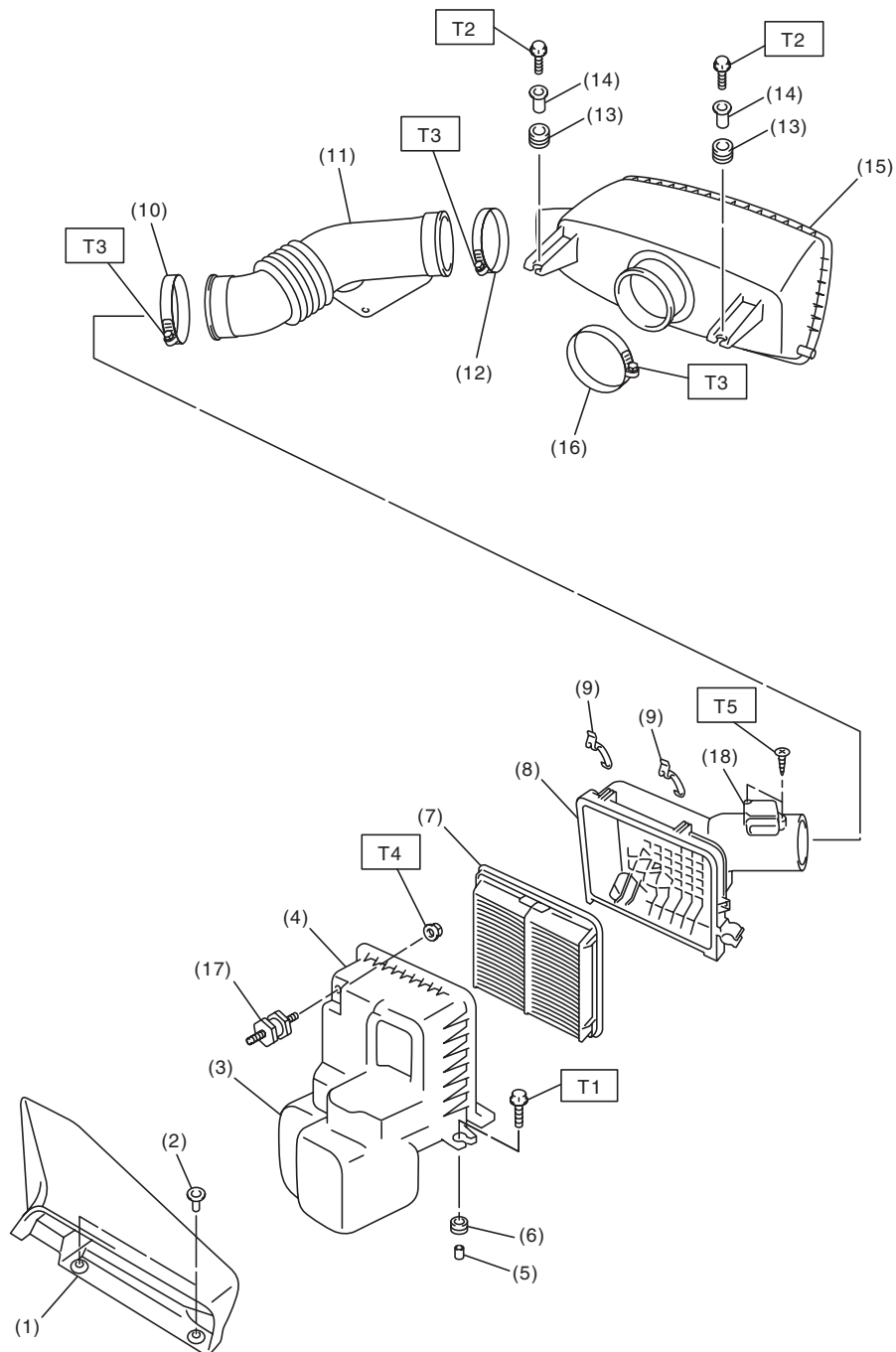


General Description

INTAKE (INDUCTION)

1. General Description

A: COMPONENT



IN-02212

IN(H6DO)-2

General Description

INTAKE (INDUCTION)

(1) Air intake duct	(11) Intake boot
(2) Clip	(12) Clamp
(3) Resonator chamber	(13) Cushion
(4) Air cleaner case (front)	(14) Spacer
(5) Spacer	(15) Air intake chamber
(6) Cushion	(16) Clamp
(7) Air cleaner element	(17) Cushion
(8) Air cleaner case (rear)	(18) Mass air flow and intake air temperature sensor
(9) Clip	
(10) Clamp	

Tightening torque:N-m (kgf-m, ft-lb)

T1: 6 (0.6, 4.4)

T2: 6.5 (0.7, 4.8)

T3: 3 (0.3, 2.2)

T4: 7.5 (0.8, 5.5)

T5: 1 (0.1, 0.7)

B: CAUTION

- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from the battery.

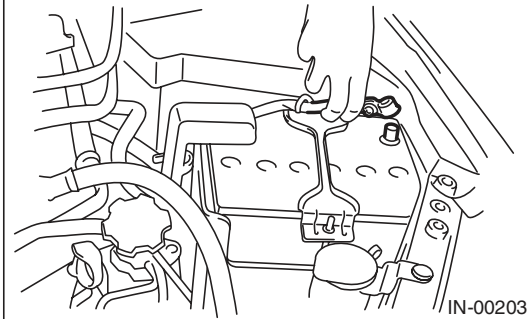
Air Cleaner Element

INTAKE (INDUCTION)

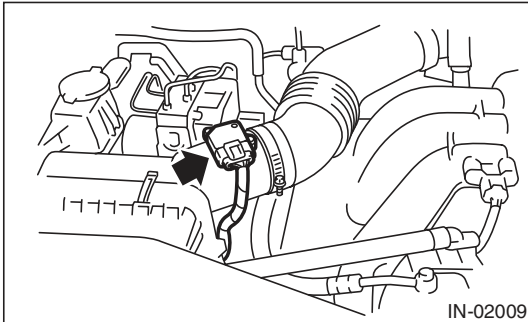
2. Air Cleaner Element

A: REMOVAL

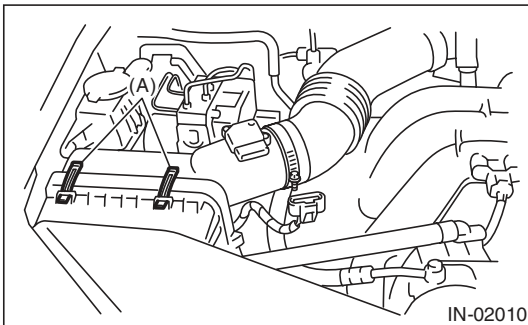
- 1) Disconnect the ground cable from the battery.



- 2) Disconnect the connector from mass air flow and intake air temperature sensor.



- 3) Remove the clip (A) securing upper side of air cleaner case.



- 4) Pull the air cleaner case (rear) backward of the vehicle, and remove the air cleaner element.

NOTE:

Be careful of the power steering hose fixed to the bottom of the air cleaner case (rear).

B: INSTALLATION

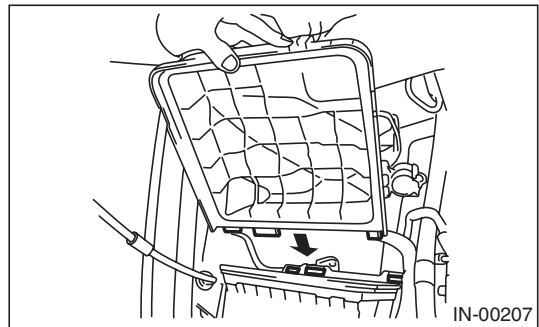
Install in the reverse order of removal.

CAUTION:

Be sure to use SUBARU genuine air cleaner element depending on the engine type when replacing the air cleaner elements. Using other air cleaner element may affect the engine performance.

NOTE:

- Check that there are no foreign objects in the air cleaner case.
- When installing the air cleaner case (rear), align the protrusion of the air cleaner case (rear) to the hole on the air cleaner case (front) to install.



C: INSPECTION

Replace if excessively damaged or dirty.

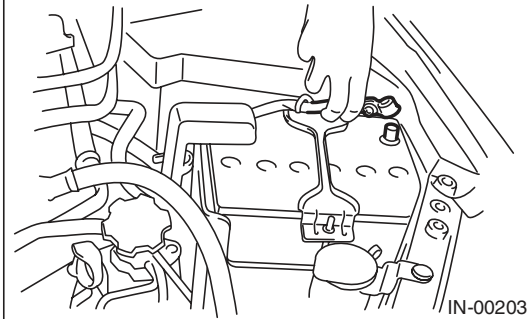
Air Cleaner Case

INTAKE (INDUCTION)

3. Air Cleaner Case

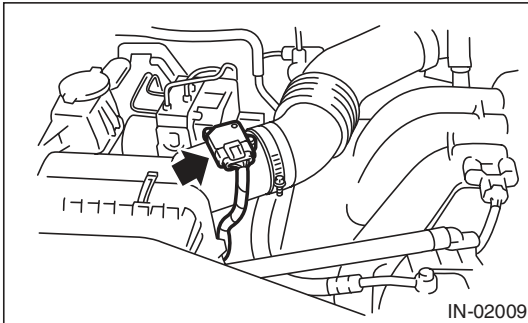
A: REMOVAL

1) Disconnect the ground cable from battery.



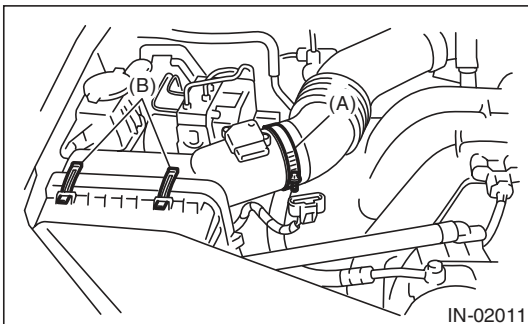
2) Remove the air intake duct. <Ref. to IN(H6DO)-8, REMOVAL, Air Intake Duct.>

3) Disconnect the connector from mass air flow and intake air temperature sensor.

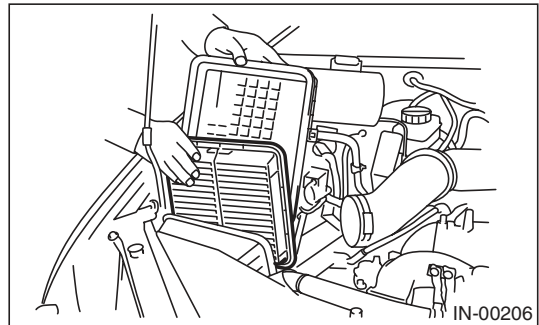


4) Loosen the clamps (A) which connect the air cleaner case and the intake boot.

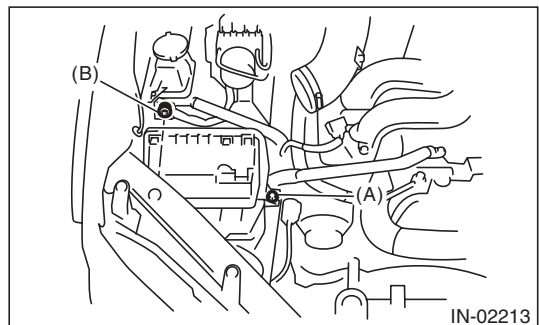
5) Remove the clip (B) securing the upper side of air cleaner case.



6) Remove the air cleaner case (rear) and air cleaner element.



7) Remove the bolts (A) and nut (B) which secure the air cleaner case to body.



8) Remove the air cleaner case (front).

Air Cleaner Case

INTAKE (INDUCTION)

B: INSTALLATION

Install in the reverse order of removal.

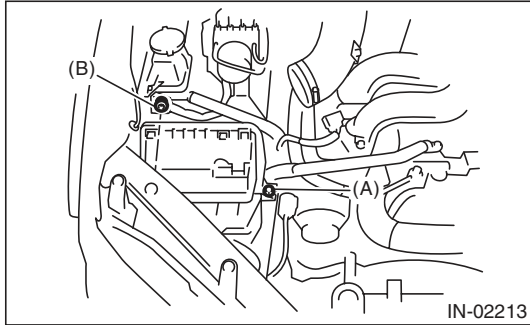
Tightening torque:

Bolt (A)

6 N·m (0.6 kgf-m, 4.4 ft-lb)

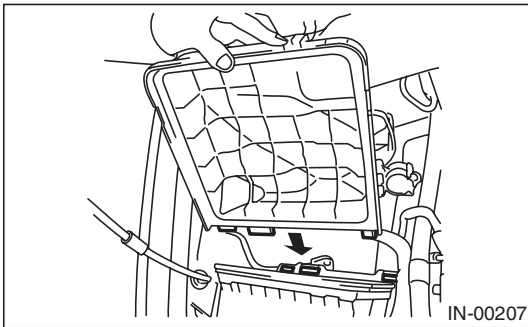
Nut (B)

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



NOTE:

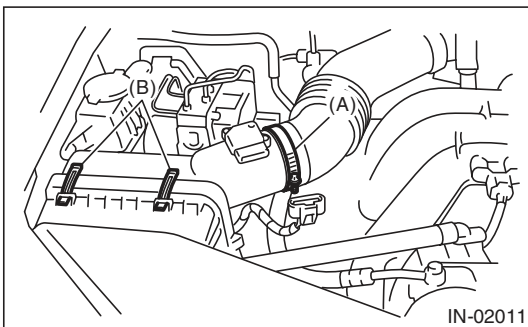
When installing the air cleaner case (rear), align the protrusion of the air cleaner case (rear) to the hole on the air cleaner case (front) to install.



Tightening torque:

Clamp (A)

3 N·m (0.3 kgf-m, 2.2 ft-lb)



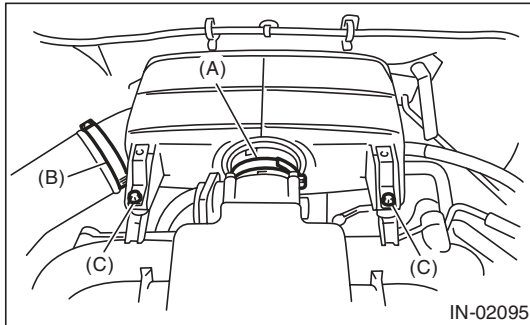
C: INSPECTION

Check for cracks or loose connections.

4. Air Intake Chamber

A: REMOVAL

- 1) Remove the collector cover.
- 2) Loosen the clamp (A) which connects air intake chamber to throttle body.
- 3) Loosen the clamp (B) which connects intake boot to air intake chamber.
- 4) Remove the bolt (C) which secures air intake chamber to the stay.



- 5) Disconnect the blow-by hoses, then remove the air intake chamber.

B: INSTALLATION

Install in the reverse order of removal.

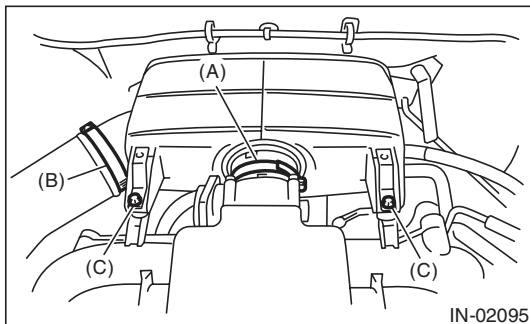
Tightening torque:

Clamp (A), (B)

3 N·m (0.3 kgf-m, 2.2 ft-lb)

Bolt (C)

6.5 N·m (0.7 kgf-m, 4.8 ft-lb)



C: INSPECTION

- 1) Check for cracks or loose connections.
- 2) Check that no foreign matter is mixed in air intake chamber.

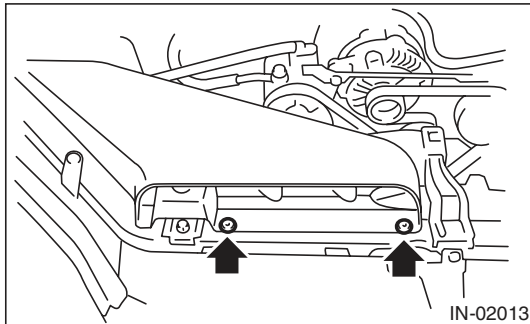
Air Intake Duct

INTAKE (INDUCTION)

5. Air Intake Duct

A: REMOVAL

- 1) Remove the clip which installs the air intake duct on the front side of body.
- 2) Remove the air intake duct.



B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

- 1) Check for cracks or loose connections.
- 2) Check that no foreign matter is mixed in air intake duct.

6. Resonator Chamber

A: REMOVAL

The resonator chamber and air cleaner case are integrated into one unit; therefore, refer to “Air Cleaner Case” for removal procedure. <Ref. to IN(H6DO)-5, REMOVAL, Air Cleaner Case.>

B: INSTALLATION

The resonator chamber and air cleaner case are integrated into one unit; therefore, refer to “Air Cleaner Case” for installation procedure. <Ref. to IN(H6DO)-6, INSTALLATION, Air Cleaner Case.>

C: INSPECTION

Check for cracks or loose connections.

Resonator Chamber

INTAKE (INDUCTION)

IN(H6DO)-10