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# **INTAKE (INDUCTION)**

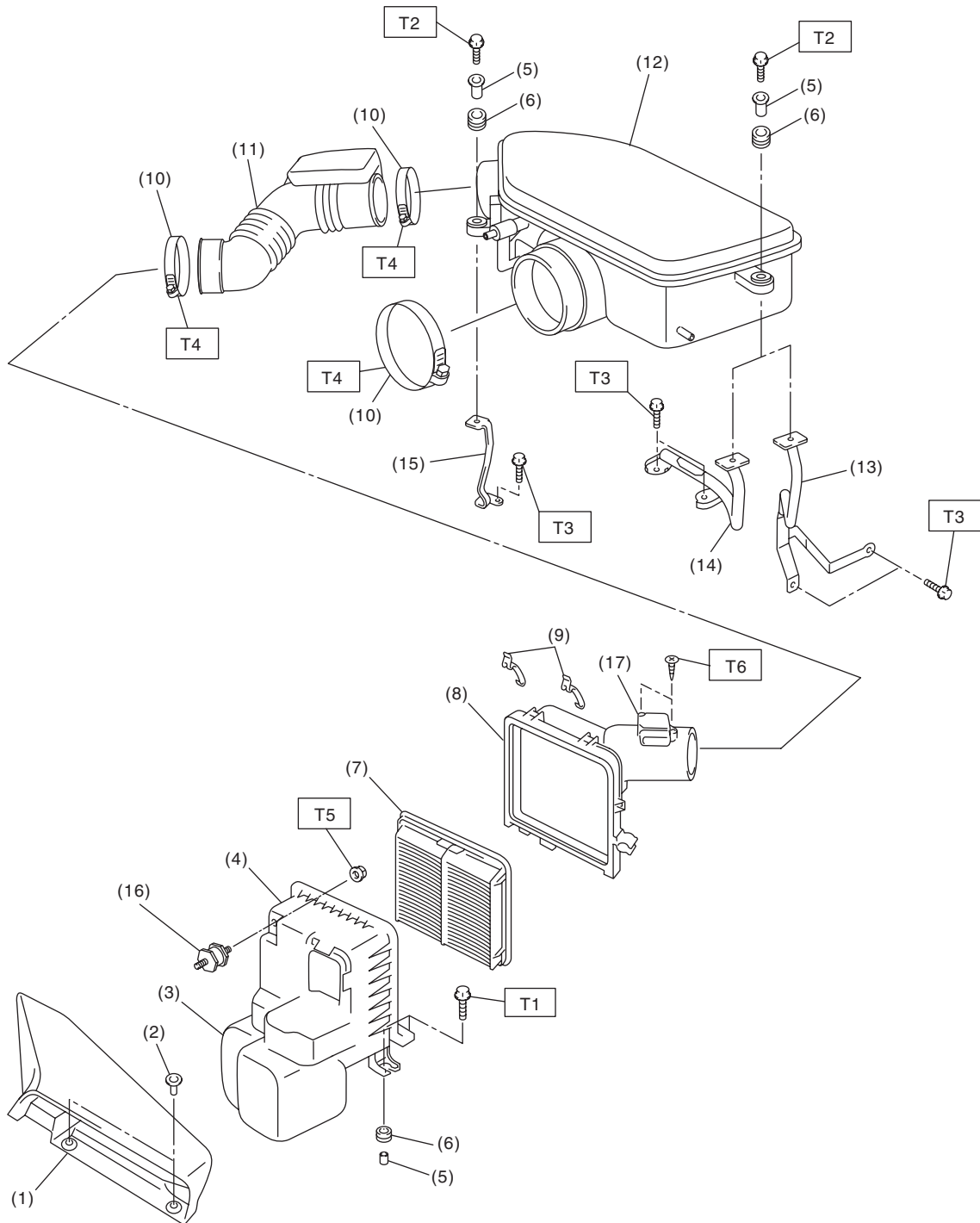
# General Description

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INTAKE (INDUCTION)

## 1. General Description

A: COMPONENT



IN-02314

IN(H4SO)-2

# General Description

## INTAKE (INDUCTION)

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

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

**T1: 6 (0.6, 4.4)**

**T2: 6.5 (0.66, 4.8)**

**T3: 16 (1.6, 11.8)**

**T4: 3 (0.3, 2.2)**

**T5: 7.5 (0.76, 5.5)**

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**T6: 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

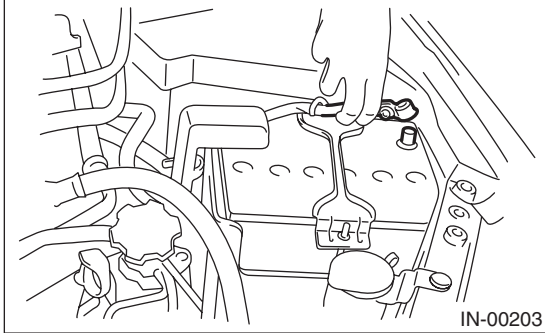
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## INTAKE (INDUCTION)

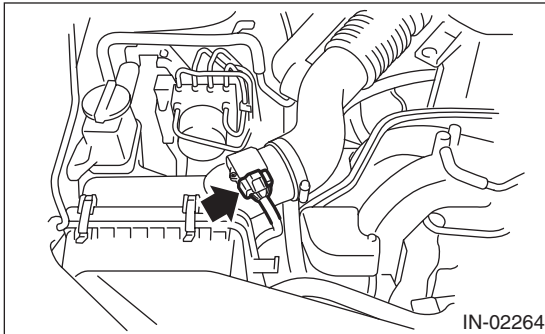
### 2. Air Cleaner Element

#### A: REMOVAL

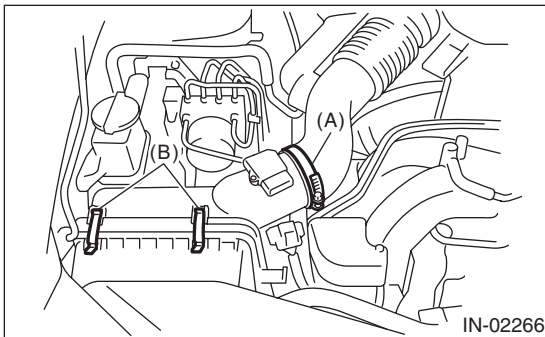
- 1) Disconnect the ground cable from battery.



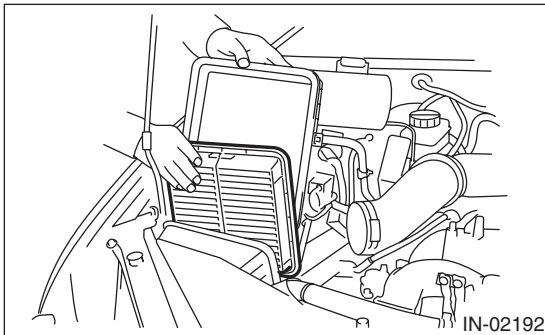
- 2) Disconnect the connectors from the mass air flow and intake air temperature sensor.



- 3) Loosen the clamps (A) which connect the air cleaner case and the intake boot.
- 4) Remove the clip (B) securing the upper side of air cleaner case.



- 5) Remove the air cleaner case (rear) and air cleaner element.



#### 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. Otherwise engine performance may be damaged.

#### NOTE:

- Make sure there is no foreign material in the air cleaner case.
- Fasten with a clip after inserting the lower tab of case.

#### C: INSPECTION

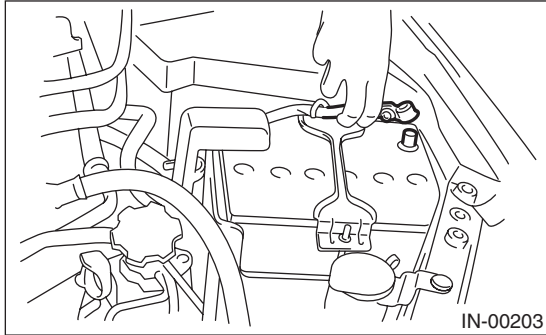
Replace if excessively damaged or dirty.

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## 3. Air Cleaner Case

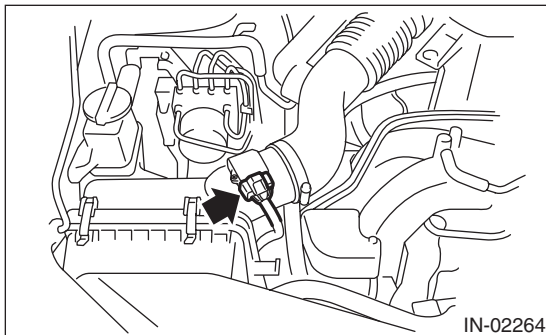
### A: REMOVAL

1) Disconnect the ground cable from the battery.



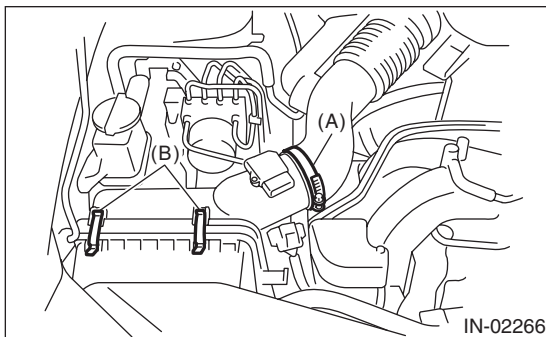
2) Remove the air intake duct. <Ref. to IN(H4SO)-8, REMOVAL, Air Intake Duct.>

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

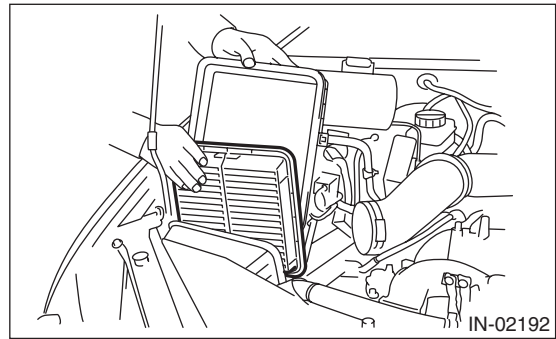


4) Loosen the clamps (A) which connect the air cleaner case and the intake boot.

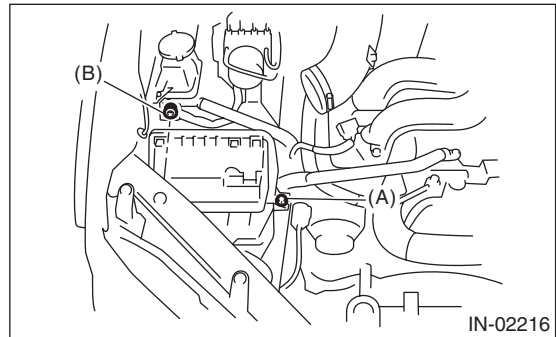
5) Remove the clip (B) securing the upper side of air cleaner case.



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

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## INTAKE (INDUCTION)

### B: INSTALLATION

Install in the reverse order of removal.

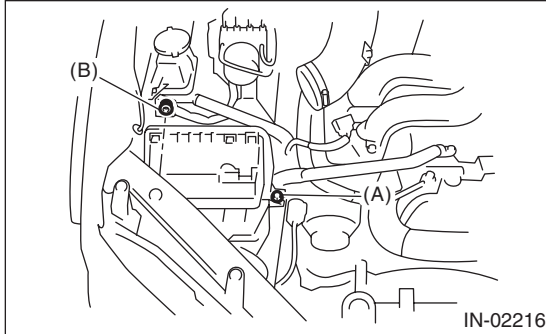
#### *Tightening torque:*

##### **Bolt (A)**

**6 N·m (0.6 kgf-m, 4.4 ft-lb)**

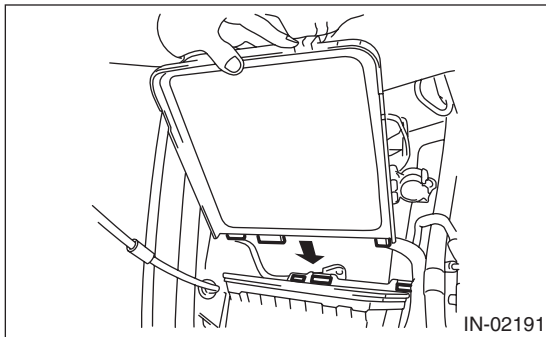
##### **Nut (B)**

**7.5 N·m (0.76 kgf-m, 5.5 ft-lb)**



#### **NOTE:**

Fasten with a clip after inserting the lower tab of case.



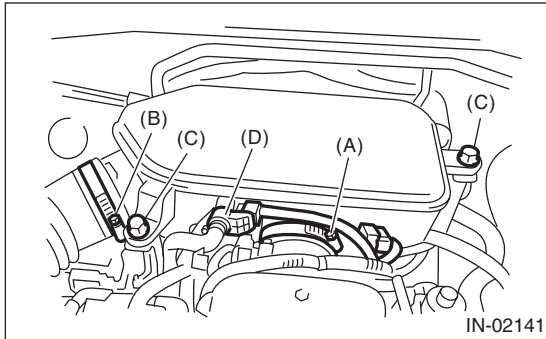
### C: INSPECTION

Check for cracks or loose connections.

## 4. Air Intake Chamber

### A: REMOVAL

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



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

### B: INSTALLATION

Install in the reverse order of removal.

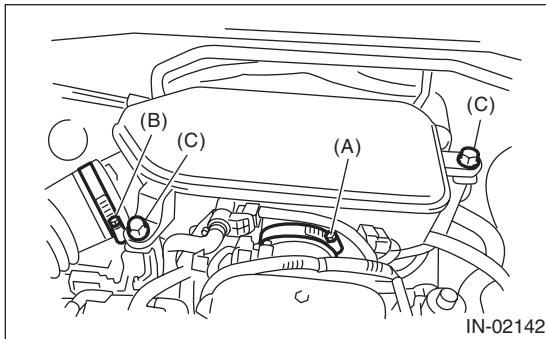
#### *Tightening torque:*

**Clamp (A), (B)**

**3 N·m (0.3 kgf-m, 2.2 ft-lb)**

**Bolt (C)**

**6.5 N·m (0.66 kgf-m, 4.8 ft-lb)**



### C: INSPECTION

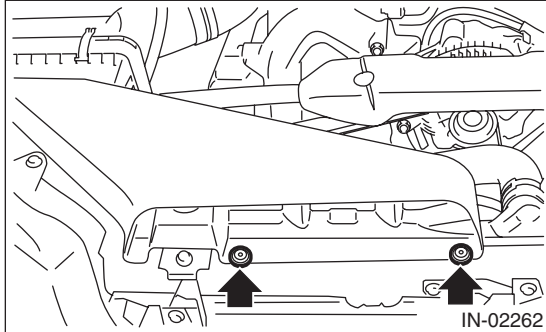
- 1) Check for cracks or loose connections.
- 2) Inspect that no foreign objects are mixed in the air intake chamber.

## 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 the removal procedure. <Ref. to IN(H4SO)-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(H4SO)-6, INSTALLATION, Air Cleaner Case.>

### C: INSPECTION

Check for cracks or loose connections.

# Resonator Chamber

INTAKE (INDUCTION)

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IN(H4SO)-10