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# IGNITION

# General Description

## IGNITION

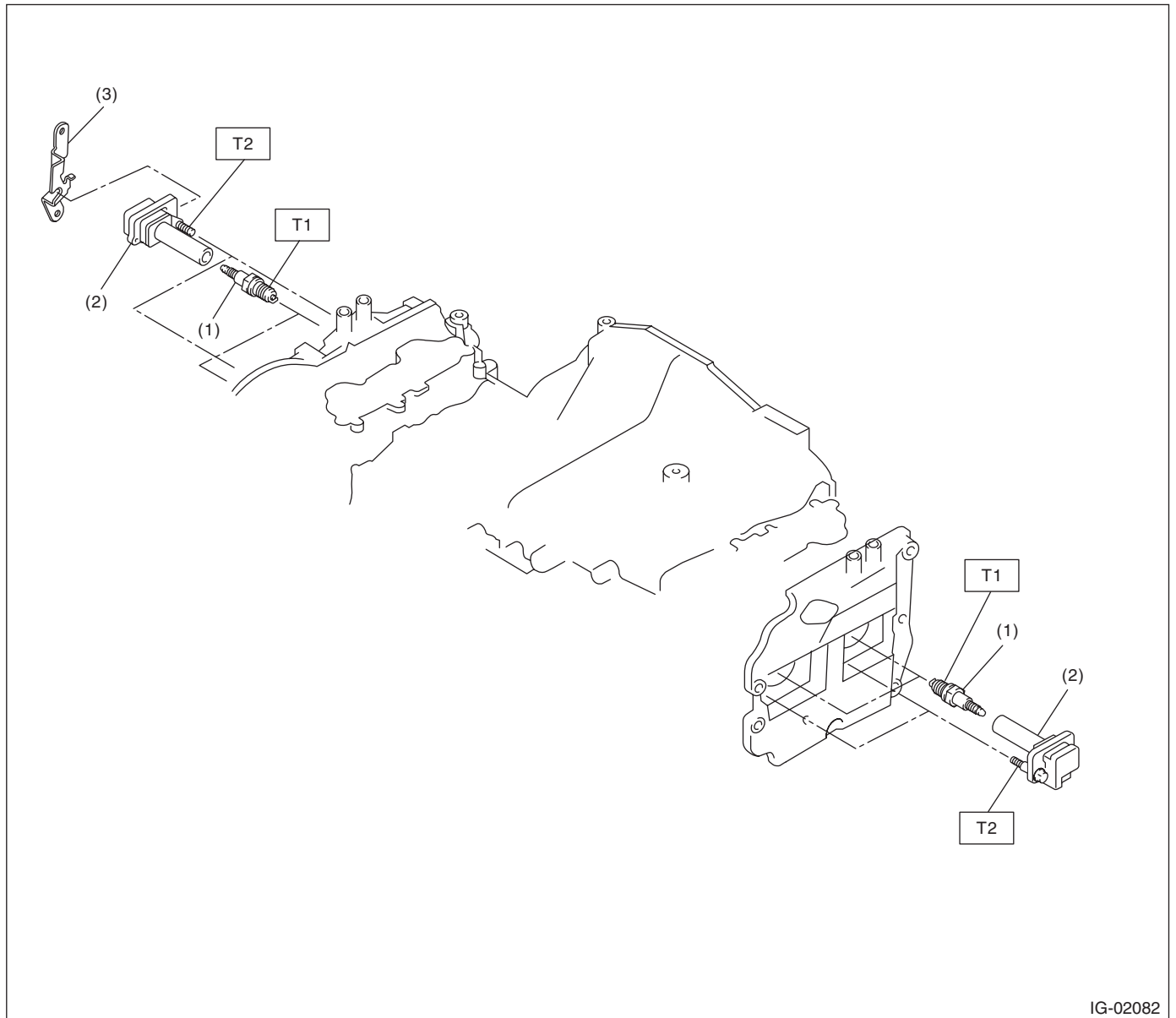
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### 1. General Description

#### A: SPECIFICATION

Item		Specification
Ignition coil	Type	FK0334
	Ignition system	Independent ignition coil
	Manufacturer	Diamond Electric
Spark plug	Manufacturer and type	NGK: SILFR6A
	Thread size (diameter, pitch, length)	mm 14,1.25,26.5
	Spark plug gap	mm (in) 0.7 — 0.8 (0.028 — 0.031)
	Electrode	Iridium

#### B: COMPONENT



IG-02082

- (1) Spark plug
- (2) Ignition coil

- (3) Engine harness stay  
(#3 ignition coil side)

**Tightening torque: N·m (kgf·m, ft·lb)**  
**T1: 21 (2.1, 15.5)**  
**T2: 16 (1.6, 11.8)**

### **C: 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.

## IGNITION

### 2. Spark Plug

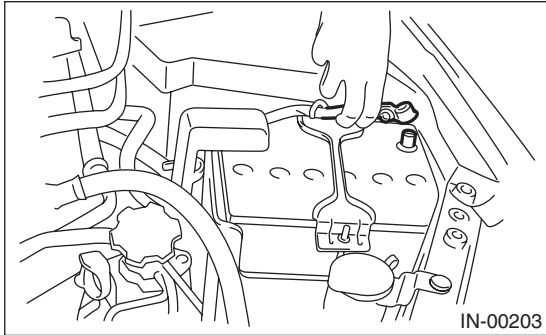
#### A: REMOVAL

##### Spark plug:

Refer to "SPECIFICATION" for the spark plug. <Ref. to IG(STI)-2, SPECIFICATION, General Description.>

##### 1. RH SIDE

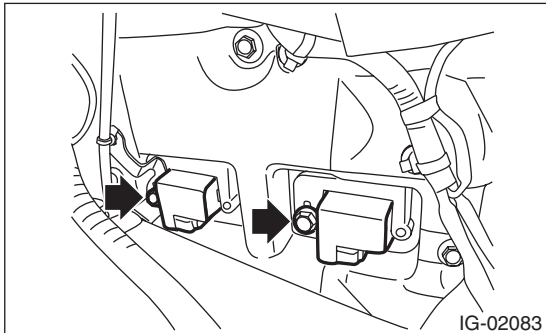
- 1) Disconnect the ground cable from the battery.



- 2) Remove the air cleaner case. <Ref. to IN(STI)-8, REMOVAL, Air Cleaner Case.>
- 3) Disconnect the connector from ignition coil.
- 4) Remove the ignition coil.

##### NOTE:

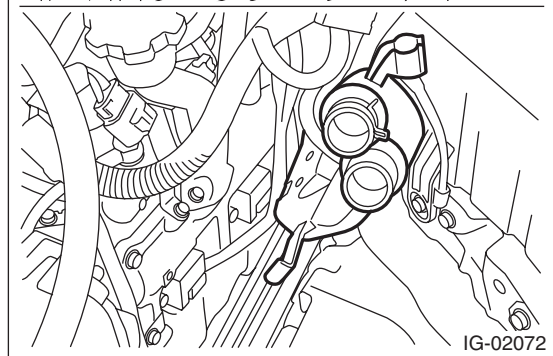
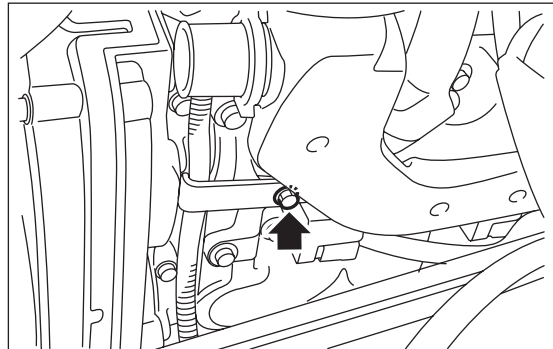
Turn #3 ignition coil by 180 degrees to remove it.



- 5) Remove the spark plug with a spark plug socket.

##### 2. LH SIDE

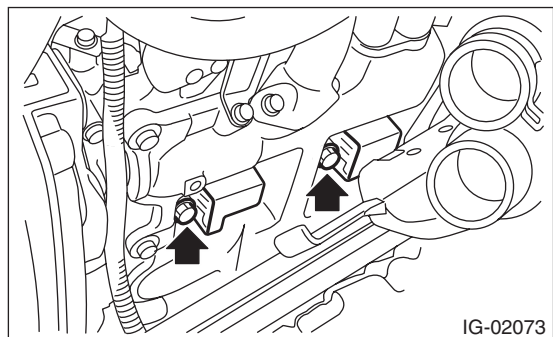
- 1) Remove the battery and battery carrier.
- 2) Remove the secondary air pump. <Ref. to EC(STI)-22, REMOVAL, Secondary Air Pump.>
- 3) Remove the bolts attaching the air duct to the rocker cover LH and raise the air duct.



- 4) Disconnect the connector from ignition coil.
- 5) Remove the ignition coil.

##### NOTE:

Turn #4 ignition coil by 180 degrees to remove it.



- 6) Remove the spark plug with a spark plug socket.

## B: INSTALLATION

### 1. RH SIDE

Install in the reverse order of removal.

**Tightening torque (Spark plug):**  
**21 N·m (2.1 kgf·m, 15.5 ft·lb)**

**Tightening torque (Ignition coil):**  
**16 N·m (1.6 kgf·m, 11.8 ft·lb)**

### 2. LH SIDE

Install in the reverse order of removal.

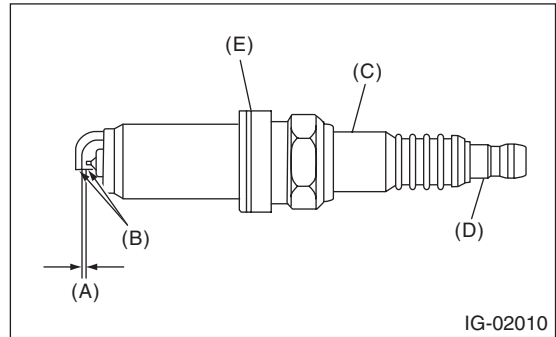
**Tightening torque (Spark plug):**  
**21 N·m (2.1 kgf·m, 15.5 ft·lb)**

**Tightening torque (Ignition coil):**  
**16 N·m (1.6 kgf·m, 11.8 ft·lb)**

**Tightening torque (air pump duct):**  
**9 N·m (0.9 kgf·m, 6.6 ft·lb)**

## C: INSPECTION

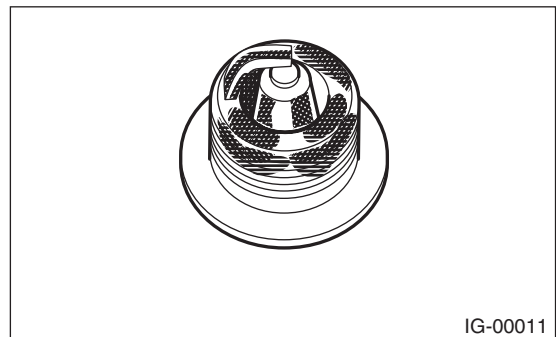
Check the electrodes and inner and outer ceramic insulator of plugs, noting the type of deposits and the degree of electrode erosion.



- (A) Spark plug gap
- (B) Carbon accumulation or wear
- (C) Crack
- (D) Damage
- (E) Damaged gasket

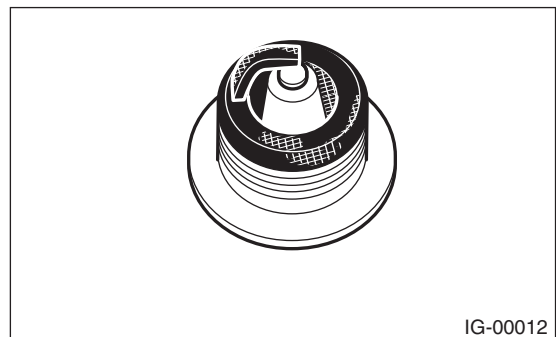
### 1) Normal:

Brown to grayish-tan deposits and slight electrode wear indicate correct spark plug heat range.



### 2) Carbon fouled:

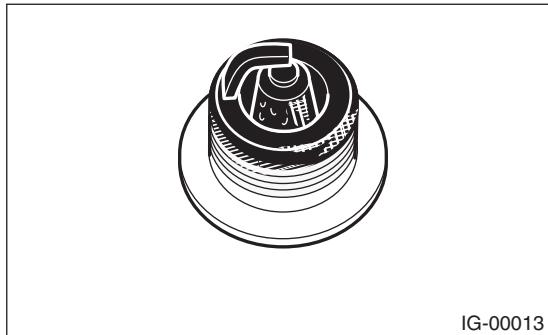
Dry fluffy carbon deposits on insulator and electrode are mostly caused by slow speed driving in the city, weak ignition, too rich fuel mixture and dirty air cleaner.



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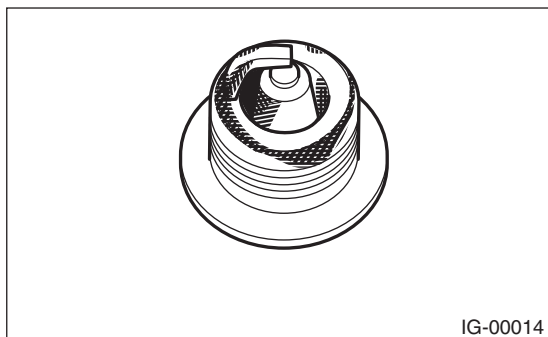
### 3) Oil fouled:

Wet black deposits show oil entrance into the combustion chamber through worn rings and excessive clearance between valve guides and stems.



### 4) Overheating:

White or light gray insulator with black or brown spots and bluish burnt electrodes indicate engine overheating, incorrect ignition timing, use of improper fuel, and loose spark plugs.



## D: ADJUSTMENT

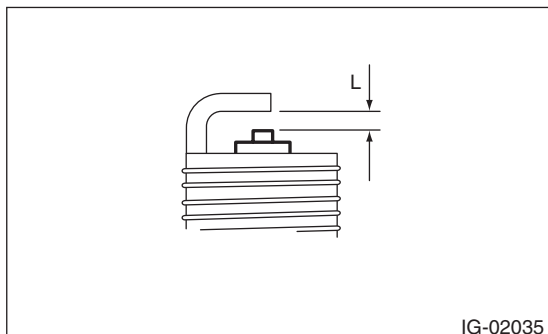
Clean up the spark plug using nylon brush or equivalent. Clean and remove the carbon or oxide deposits. If deposits are too stubborn, replace the spark plugs. After cleaning the spark plugs, measure the spark plug gap using a gap gauge.

### NOTE:

- Never use a plug cleaner.
- Never use a metal brush because it makes insulator worn.

### **Spark plug gap : L**

**0.7 — 0.8 mm (0.028 — 0.031 in)**



## 3. Ignition Coil

### A: REMOVAL

Direct ignition type has been adopted. Refer to "Removing Spark Plugs" for removal procedure. <Ref. to IG(STI)-4, REMOVAL, Spark Plug.>

### B: INSTALLATION

Install in the reverse order of removal.

#### *Tightening torque:*

**16 N·m (1.6 kgf-m, 11.8 ft-lb)**

### C: INSPECTION

For inspection procedure, refer to "Diagnostics for Engine Starting Failure". <Ref. to EN(STI)(diag)-74, IGNITION CONTROL SYSTEM, Diagnostics for Engine Starting Failure.>

# Ignition Coil

IGNITION

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IG(STI)-8