

2. Spark Plug

A: REMOVAL

Spark plug:

Refer to “SPECIFICATION” for spark plug. <Ref. to IG(H4DO(w/o HEV))-2, SPECIFICATION, General Description.>

1. RH SIDE

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

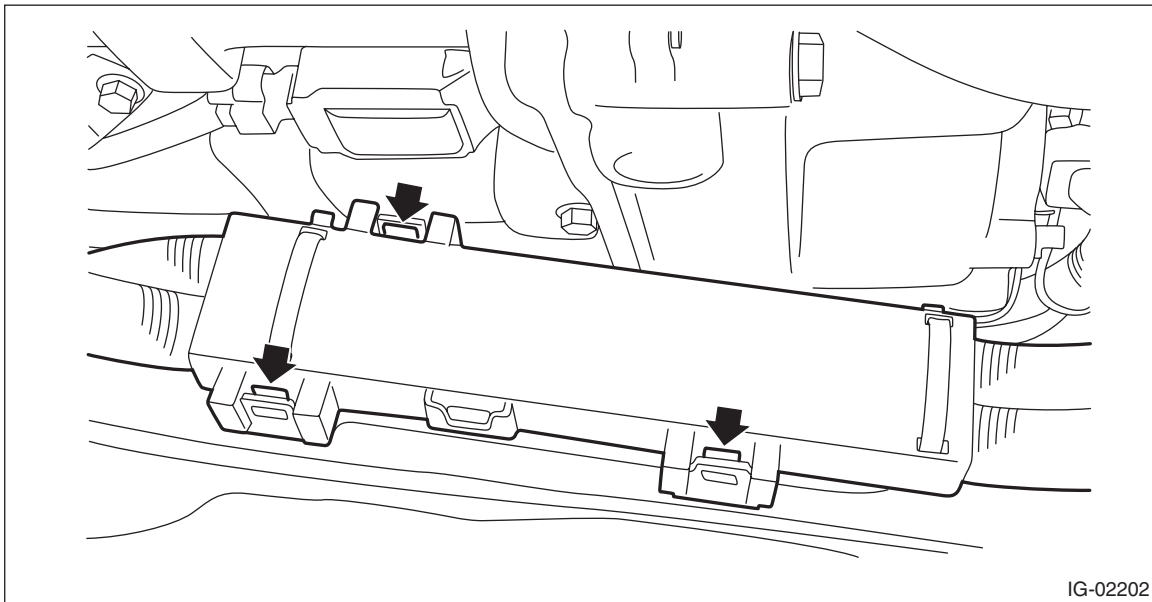
NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Remove the air cleaner case. (Gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-7, REMOVAL, Air Cleaner Case.>

3) Remove the 12 volt engine restart battery. (HEV model) <Ref. to SC(H4DO(HEV))-40, 12 VOLT ENGINE RESTART BATTERY, REMOVAL, Battery.>

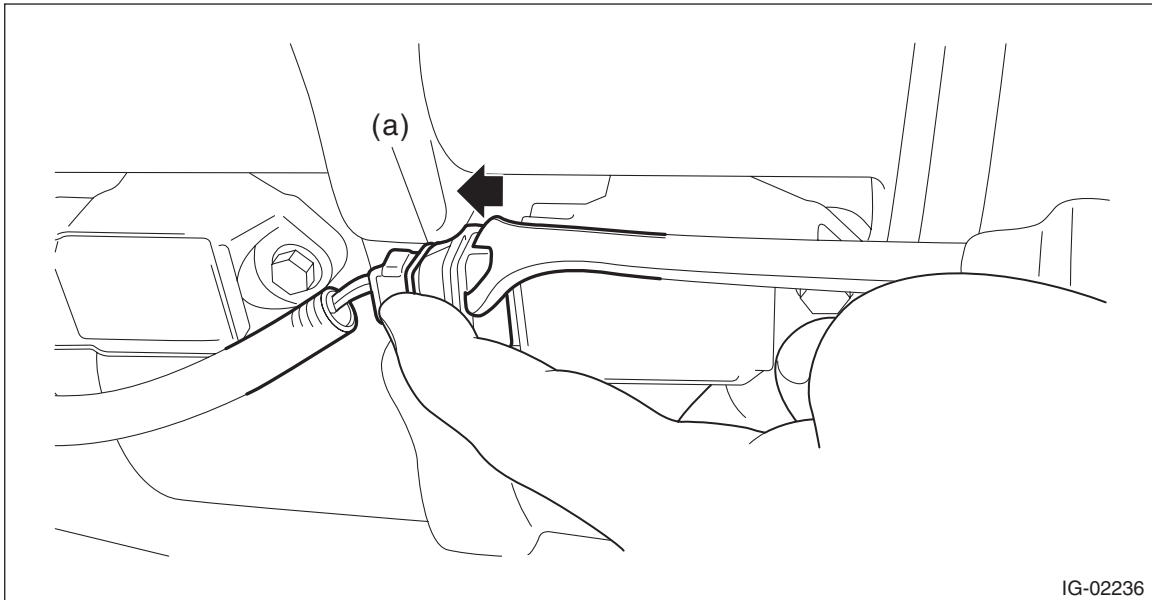
4) Remove the battery cable assembly from the battery cable bracket No. 2. (HEV model)



5) Disconnect the connector from ignition coil.

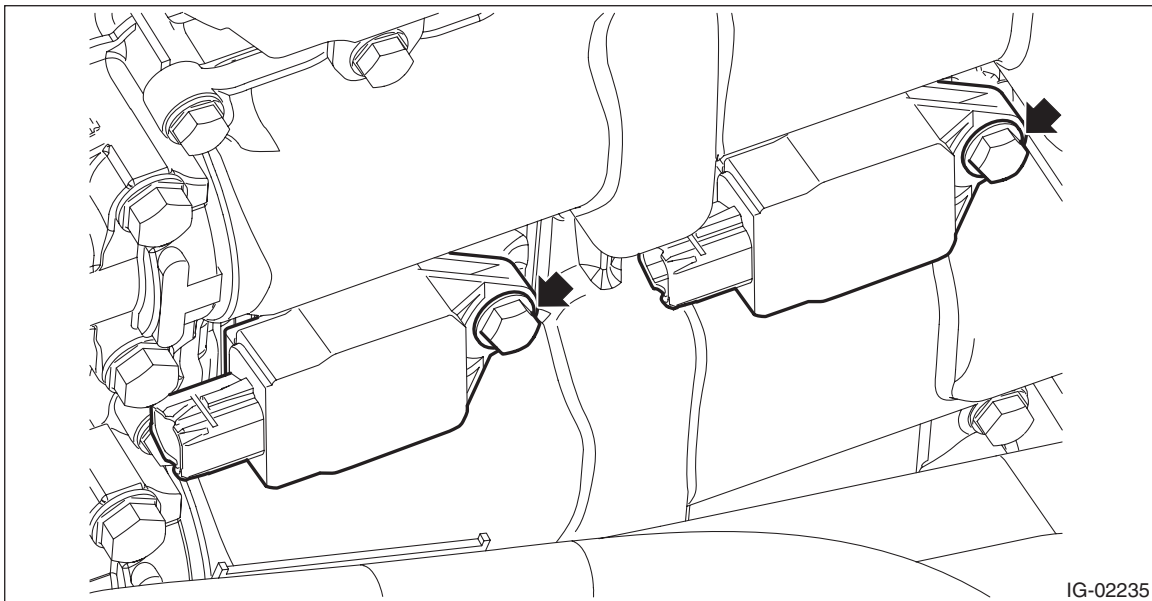
NOTE:

While pressing the spring (a) shown in the figure, slide it in the direction of the arrow with a clip remover.



IG-02236

6) Remove the ignition coil.



IG-02235

7) Remove the spark plug with a spark plug socket.

Spark Plug

IGNITION

2. LH SIDE

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

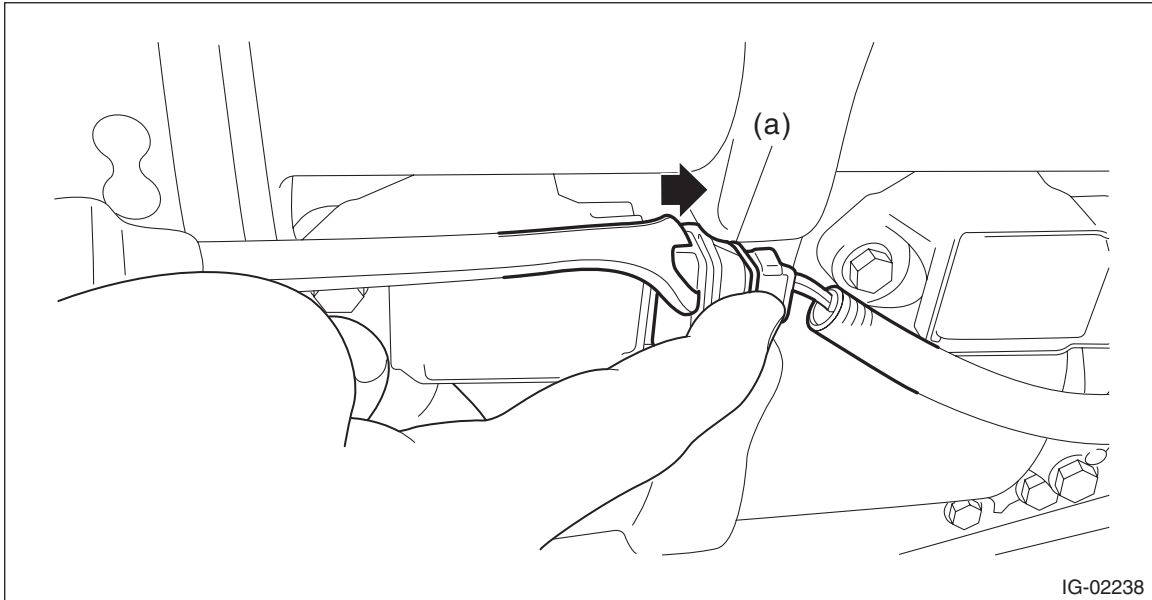
NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

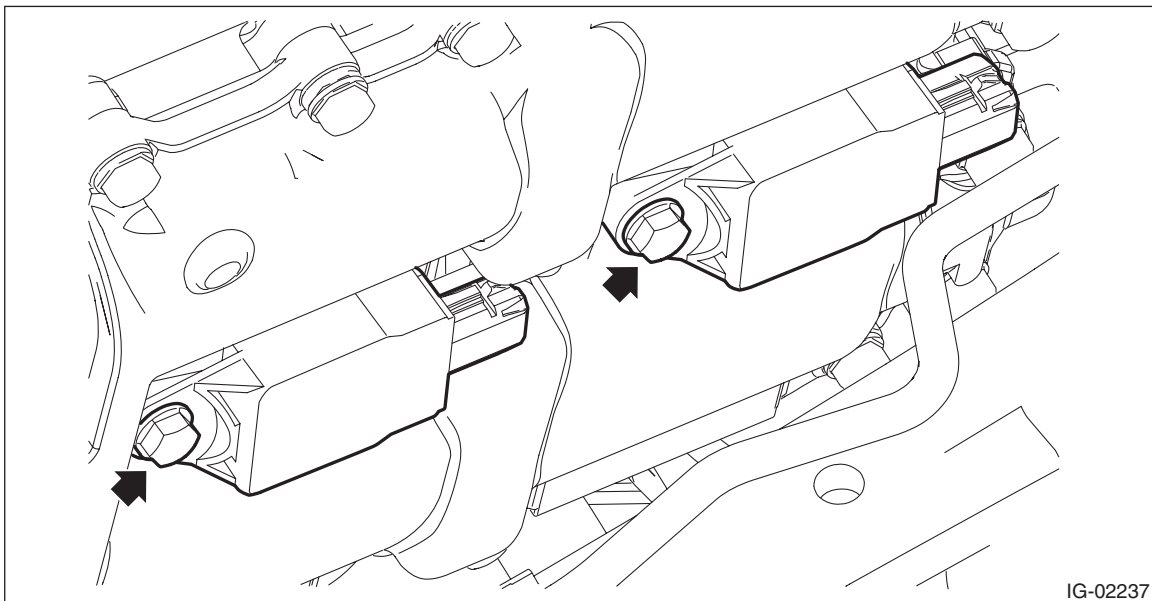
2) Disconnect the connector from ignition coil.

NOTE:

While pressing the spring (a) shown in the figure, slide it in the direction of the arrow with a clip remover.



3) Remove the ignition coil.



4) Remove the spark plug with a spark plug socket.

B: INSTALLATION

1. RH SIDE

Install in the reverse order of removal.

CAUTION:

Degrease the ignition coil installation portion and the mounting bolts.

Tightening torque:

Spark plug

17.5 N·m (1.8 kgf-m, 12.9 ft-lb)

Ignition coil

8.5 N·m (0.9 kgf-m, 6.3 ft-lb)

2. LH SIDE

Install in the reverse order of removal.

CAUTION:

Degrease the ignition coil installation portion and the mounting bolts.

Tightening torque:

Spark plug

17.5 N·m (1.8 kgf-m, 12.9 ft-lb)

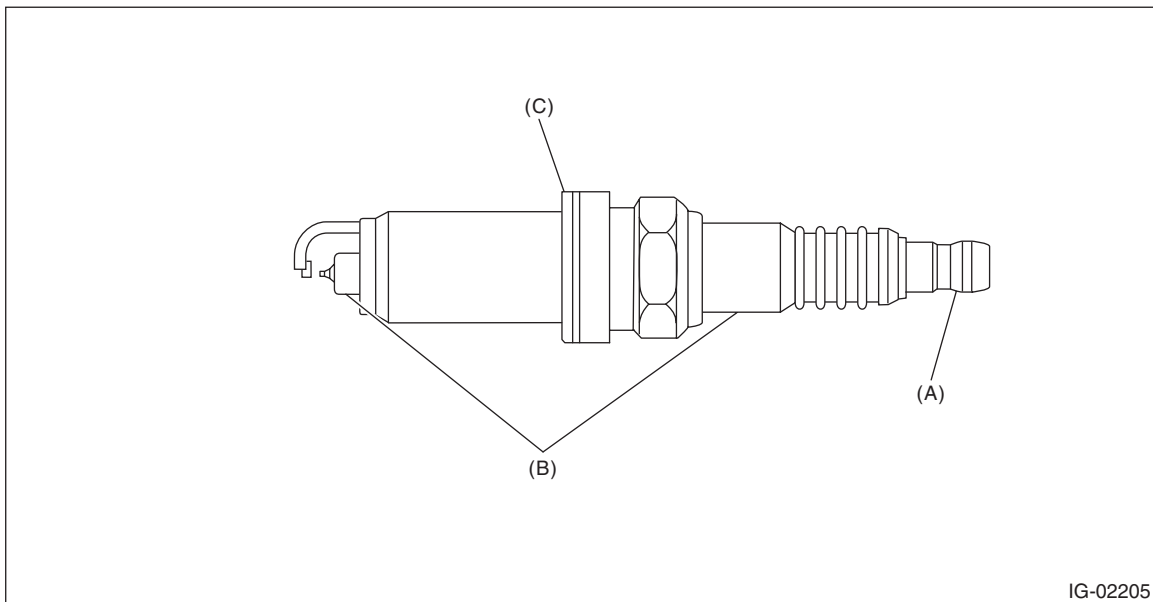
Ignition coil

8.5 N·m (0.9 kgf-m, 6.3 ft-lb)

C: INSPECTION

1) Check the spark plug for abnormalities. If defective, replace the spark plug.

- Gasoline engine model



IG-02205

(A) Terminal damage

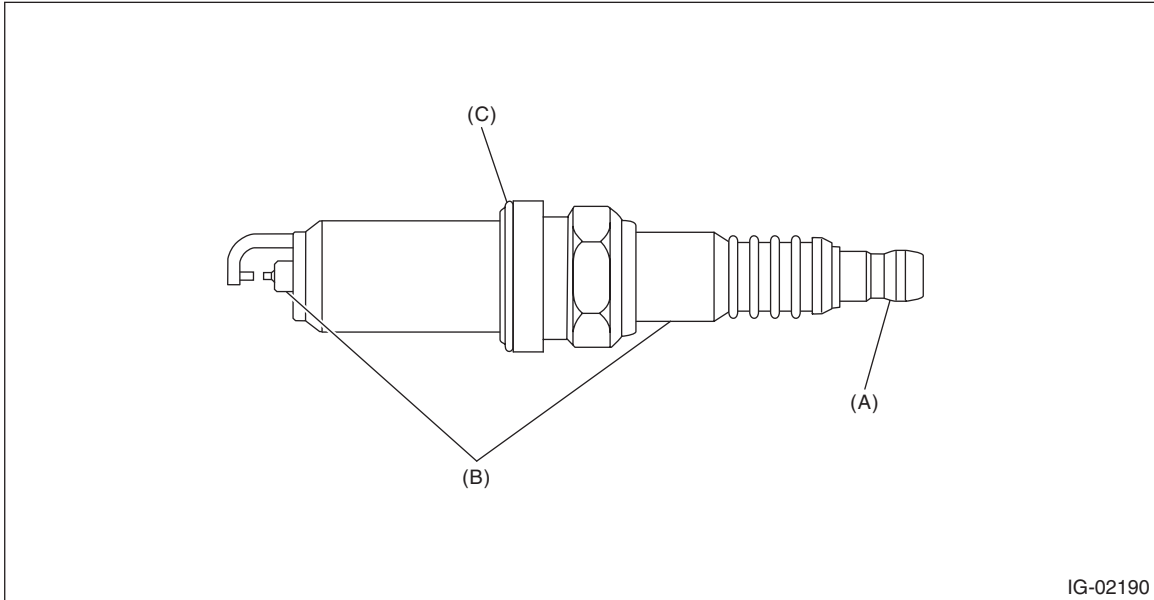
(B) Crack or damage in insulator

(C) Damaged gasket

Spark Plug

IGNITION

- HEV model



(A) Terminal damage

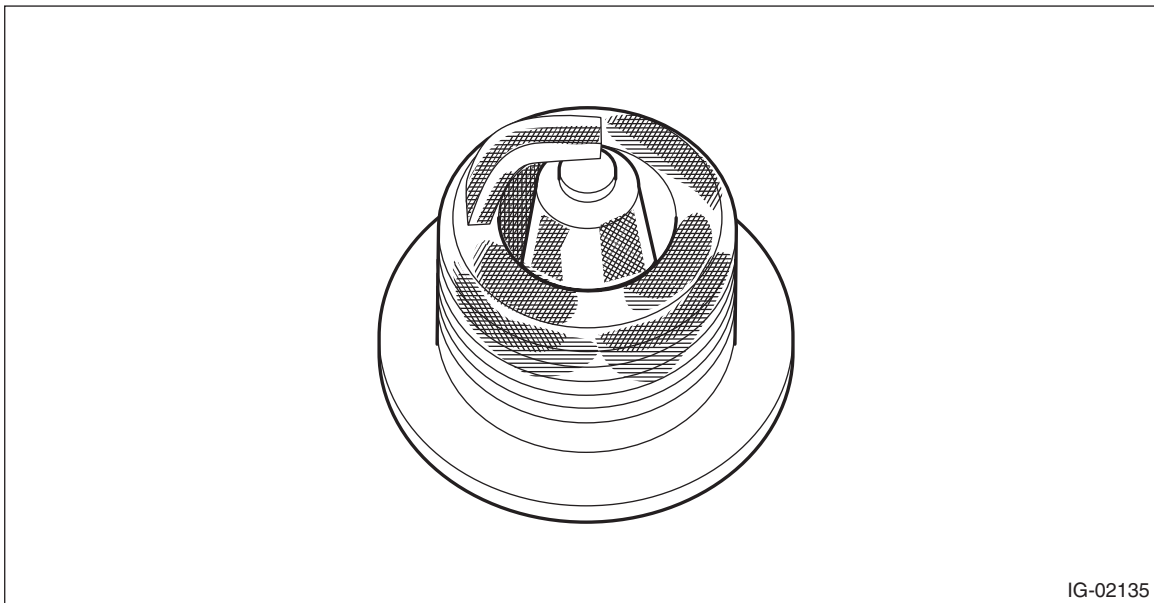
(B) Crack or damage in insulator

(C) Damaged gasket

2) Check the spark plug electrode and condition of the insulator. If abnormal, check and repair the cause and replace the spark plug.

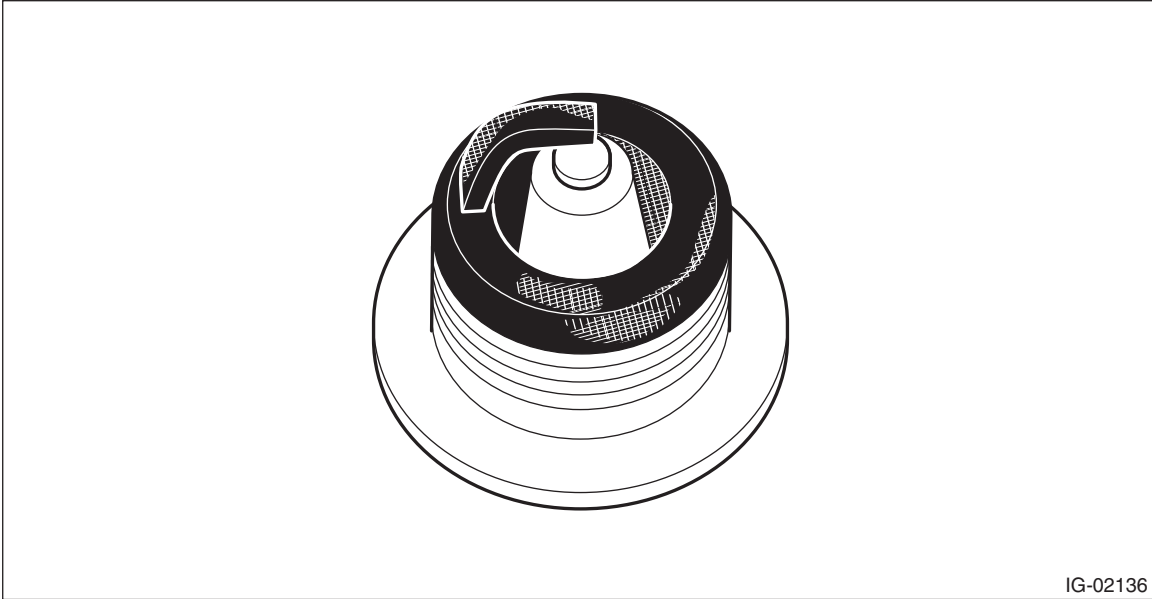
(1) Normal:

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



(2) Carbon fouled:

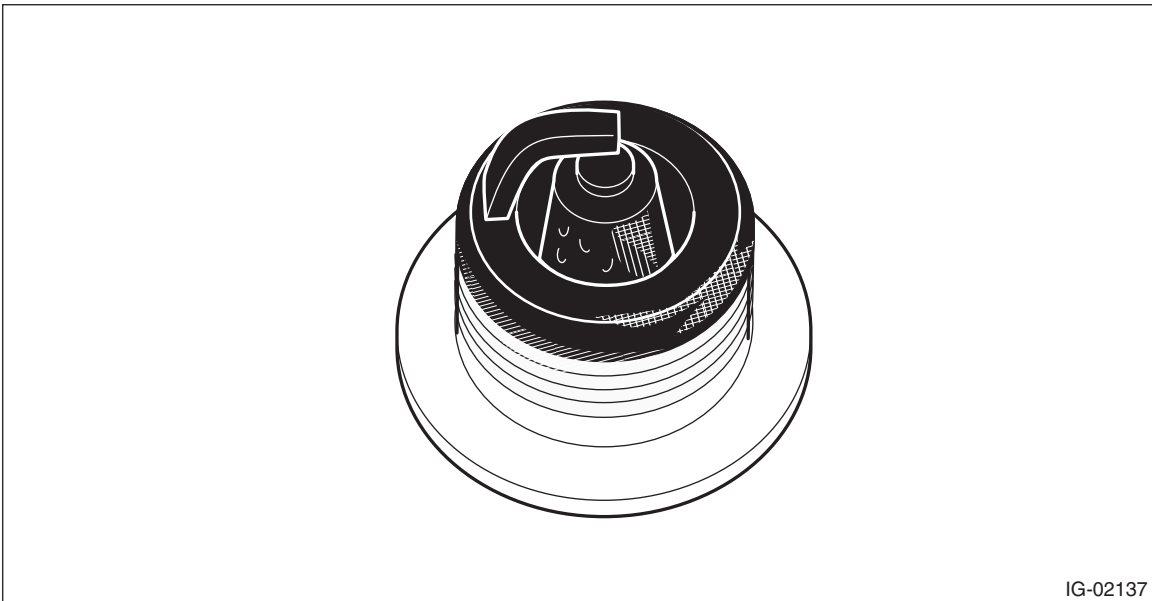
Dry fluffy carbon deposits on the insulator and electrode are mostly caused by slow-speed driving in town, weak ignition, too rich fuel mixture, etc.



IG-02136

(3) Oil fouled:

Wet black deposits show oil entrance into combustion chamber through worn piston rings or increased clearance between valve guides and valve stems.



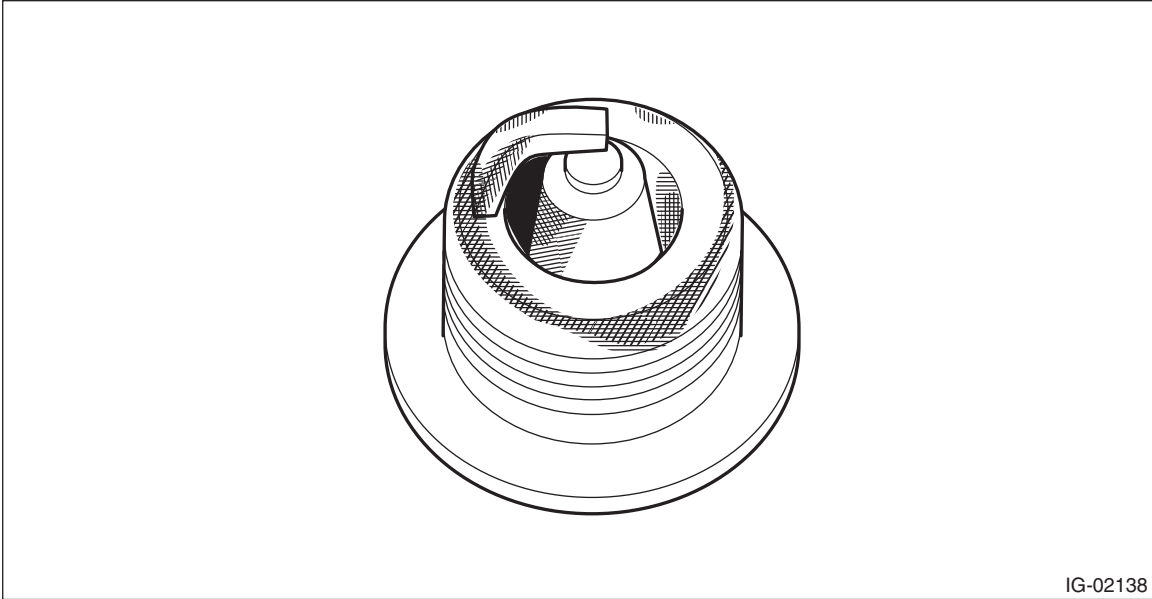
IG-02137

Spark Plug

IGNITION

(4) Overheating:

A white or light gray insulator with black or brown spots and bluish burnt electrodes indicate engine overheating, wrong selection of fuel, or loose spark plugs.



3) Using a nylon brush, etc., clean and remove the carbon or oxide deposits from the spark plug. If deposits are too stubborn, replace the spark plugs. After cleaning the spark plugs, check the spark plug gap "L" using a gap gauge. If it is not within the standard, replace the spark plug.

NOTE:

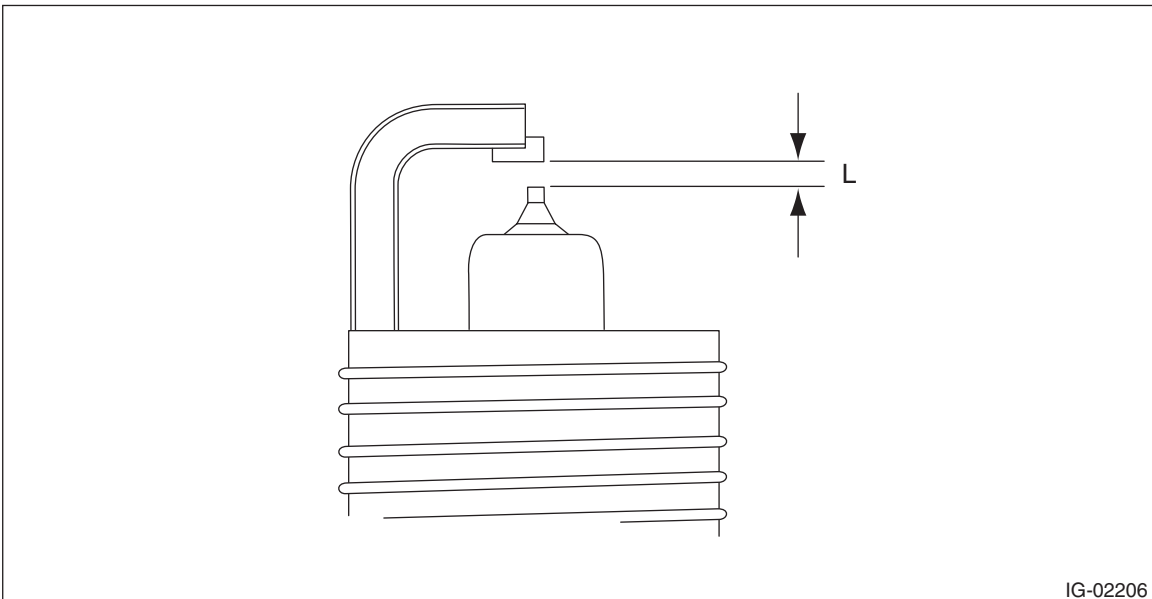
- Never use a plug cleaner.
- Do not use a metal brush as it may damage the electrode area.

Spark plug gap L:

Standard

1.0 — 1.1 mm (0.039 — 0.043 in)

- Gasoline engine model



- HEV model

