

IGNITION

IG(H4DOTC)

	Page
1. General Description	2
2. Spark Plug	4
3. Ignition Coil	9



General Description

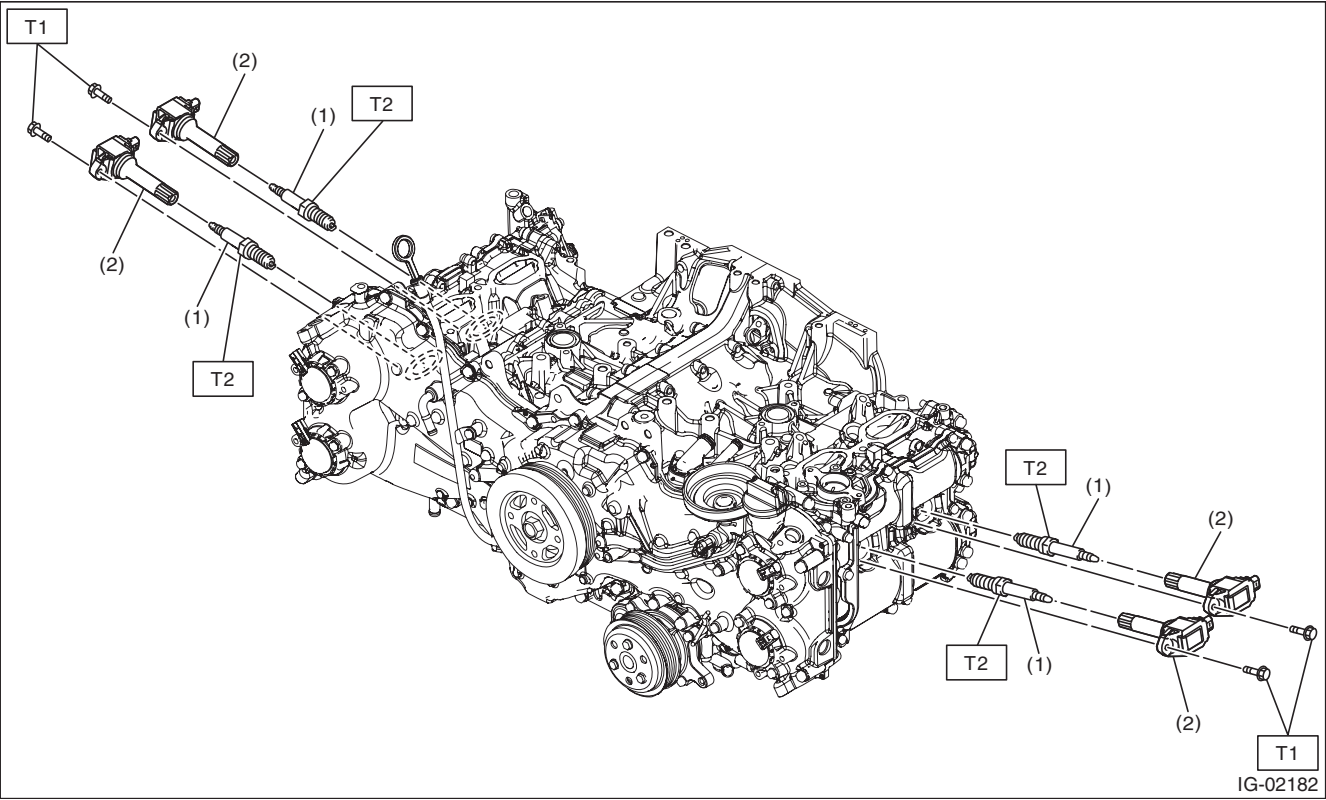
IGNITION

1. General Description

A: SPECIFICATION

Item			Specifications
Ignition coil	Type	FK0456	
	Ignition system	Independent ignition coil	
	Manufacturer	Diamond Electric	
Spark plug	Manufacturer and type		NGK: ILKAR8H6
	Thread size (diameter, pitch, length) mm		12, 1.25, 26.5
	Spark plug gap	mm (in) Standard	0.50 — 0.55 (0.020 — 0.022)
	Electrode		Center electrode: Iridium Ground electrode: Platinum

B: COMPONENT



(1) Spark plug

(2) Ignition coil

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

T1: 8.5 (0.9, 6.3)

T2: 17.5 (1.8, 12.9)

C: CAUTION

- Prior to starting work, pay special attention to the following:
 1. Always wear work clothes, a safety cap, protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
 2. Protect the vehicle using a seat cover, fender cover, etc.
 3. Prepare the service tools, clean cloth, containers to catch grease and oil, etc.
- Vehicle components are extremely hot immediately after driving. Be wary of receiving burns from heated parts.
- When performing a repair, identify the cause of trouble and avoid unnecessary removal, disassembly and replacement.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from battery.
- Always use the jack-up point when the shop jacks or rigid racks are used to support the vehicle.
- Remove contamination including dirt and corrosion before removal, installation, disassembly or assembly.
- Keep the removed parts in order and protect them from dust and dirt.
- All removed parts, if to be reused, should be reinstalled in the original positions with attention to the correct directions, etc.
- Bolts, nuts and washers should be replaced with new parts as required.
- Be sure to tighten the fasteners including bolts and nuts to the specified torque.



Spark Plug

IGNITION

2. Spark Plug

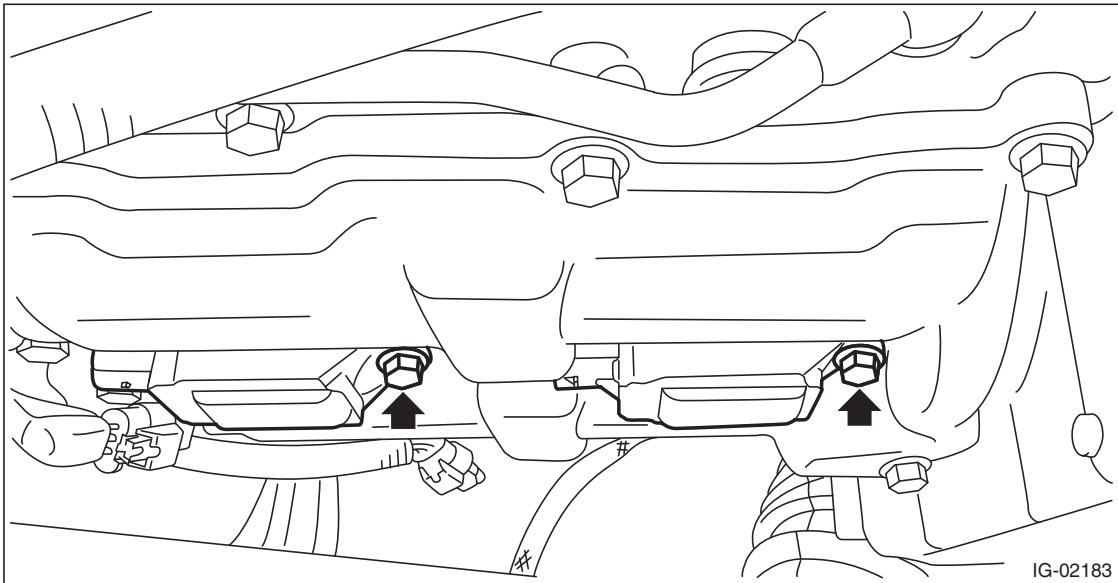
A: REMOVAL

Spark plug:

Refer to "SPECIFICATION" for spark plug. <Ref. to IG(H4DOTC)-2, SPECIFICATION, General Description.>

1. RH SIDE

- 1) Disconnect the ground cable from battery.
- 2) Remove the engine control module (ECM). <Ref. to FU(H4DOTC)-134, REMOVAL, Engine Control Module (ECM).>
- 3) Disconnect the connector from ignition coil.
- 4) Remove the ignition coil.

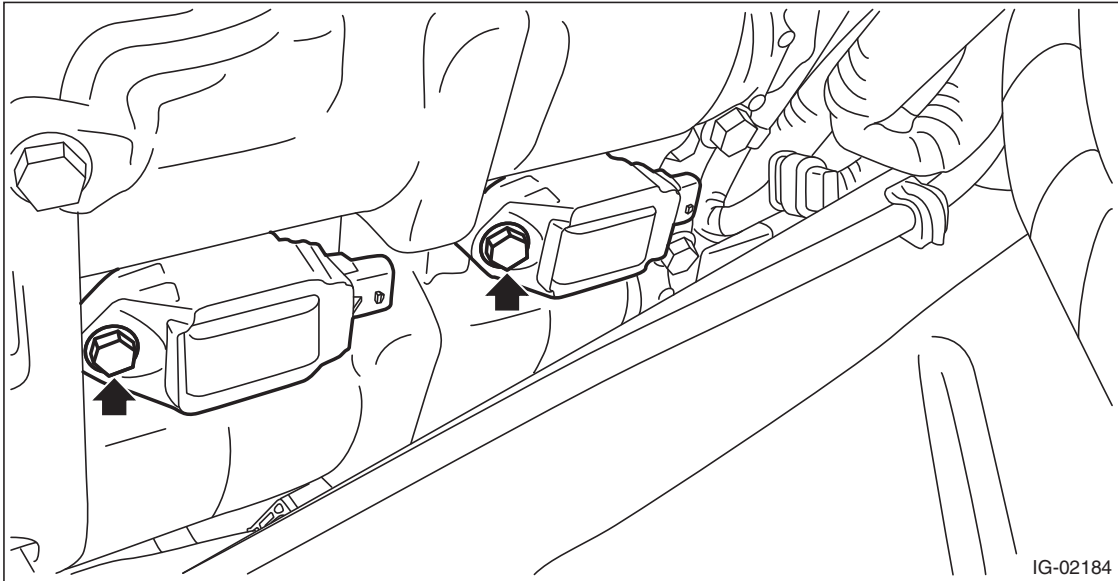


- 5) Remove the spark plug with a spark plug socket.

2. LH SIDE

- 1) Remove the battery. <Ref. to SC(H4DO)-63, REMOVAL, Battery.>
- 2) Disconnect the connector from ignition coil.

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 ignition coil mounting bolt.

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 ignition coil mounting bolt.

Tightening torque:

Spark plug:

17.5 N·m (1.8 kgf-m, 12.9 ft-lb)

Ignition coil:

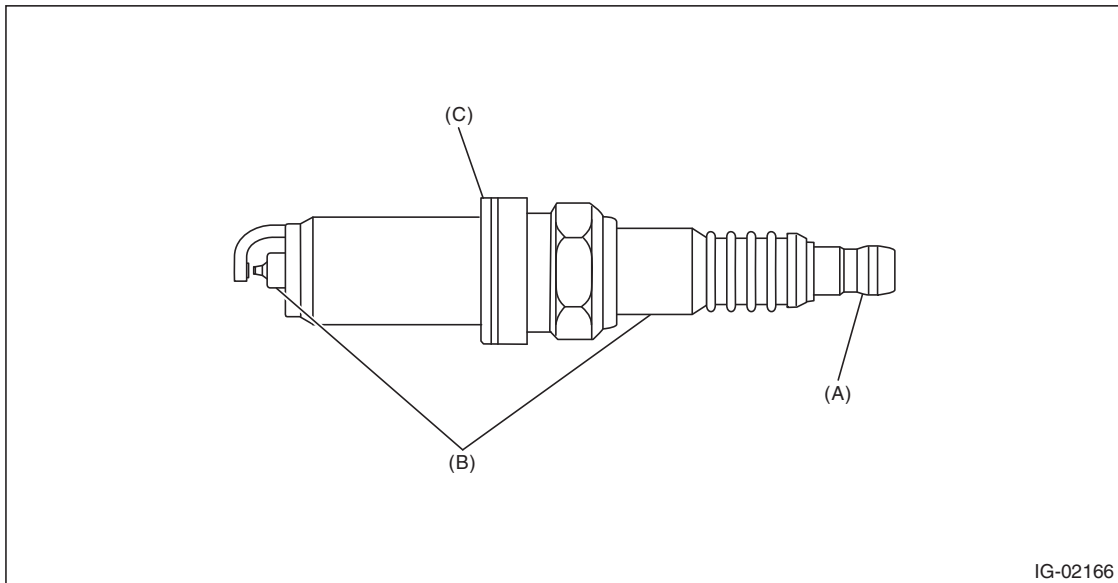
8.5 N·m (0.9 kgf-m, 6.3 ft-lb)

Spark Plug

IGNITION

C: INSPECTION

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



(A) Terminal damage

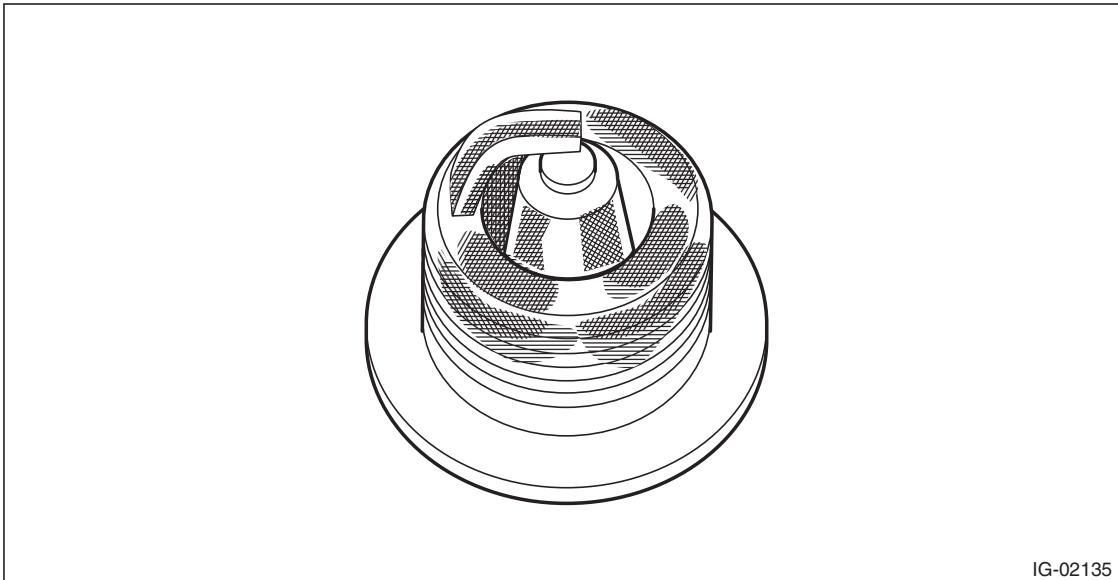
(B) Crack or damage in insulator

(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.

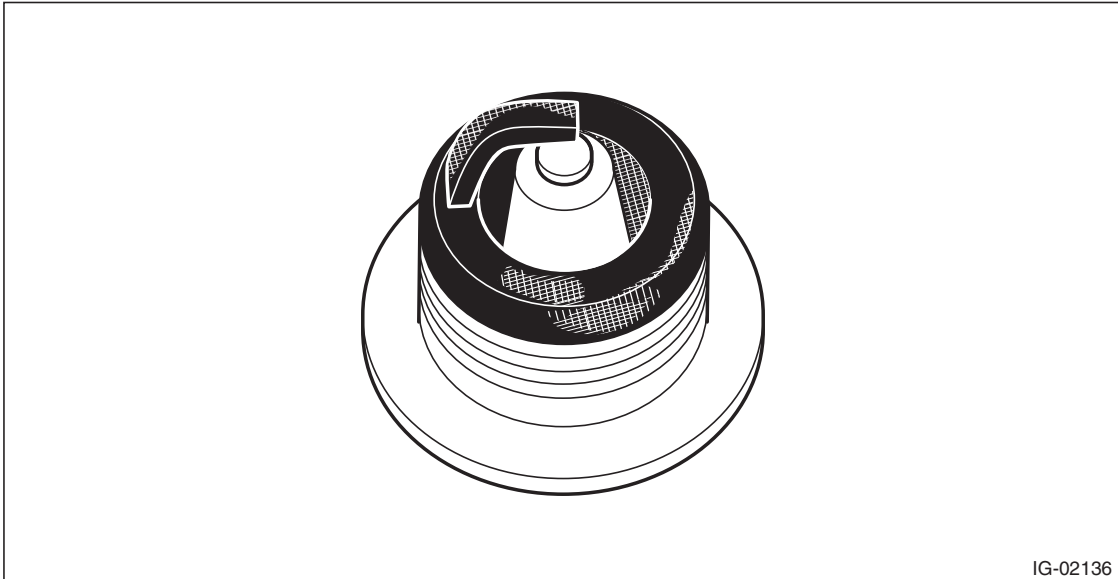


Spark Plug

IGNITION

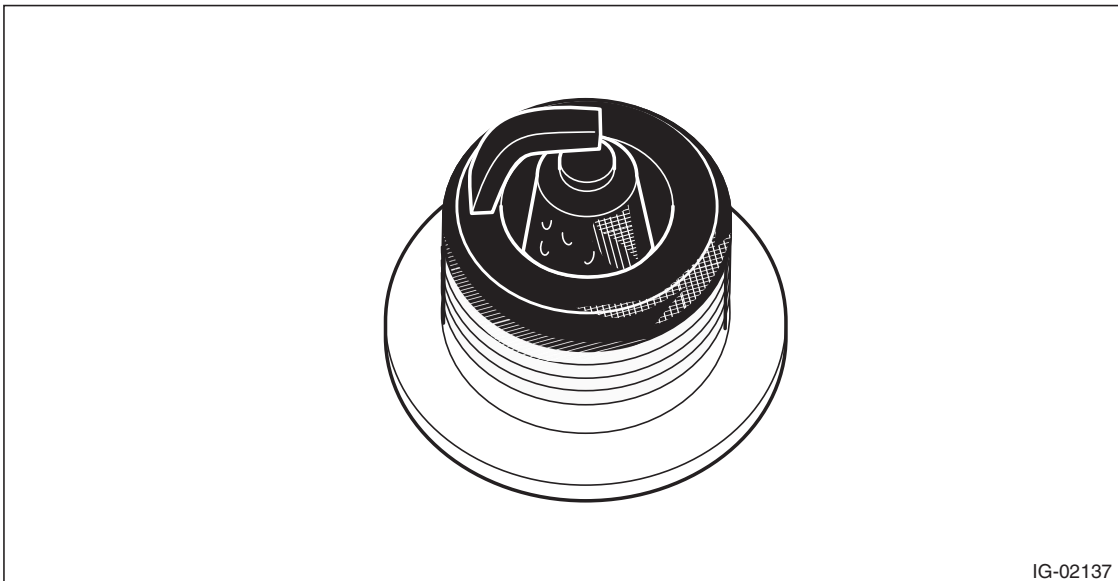
(2) Carbon fouled:

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.



(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.

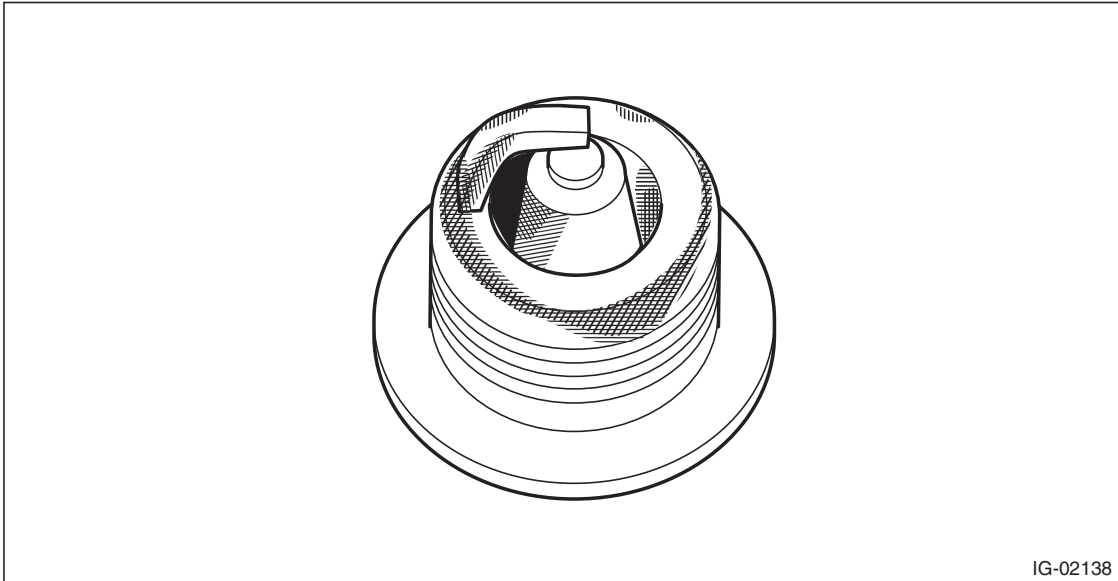


Spark Plug

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.

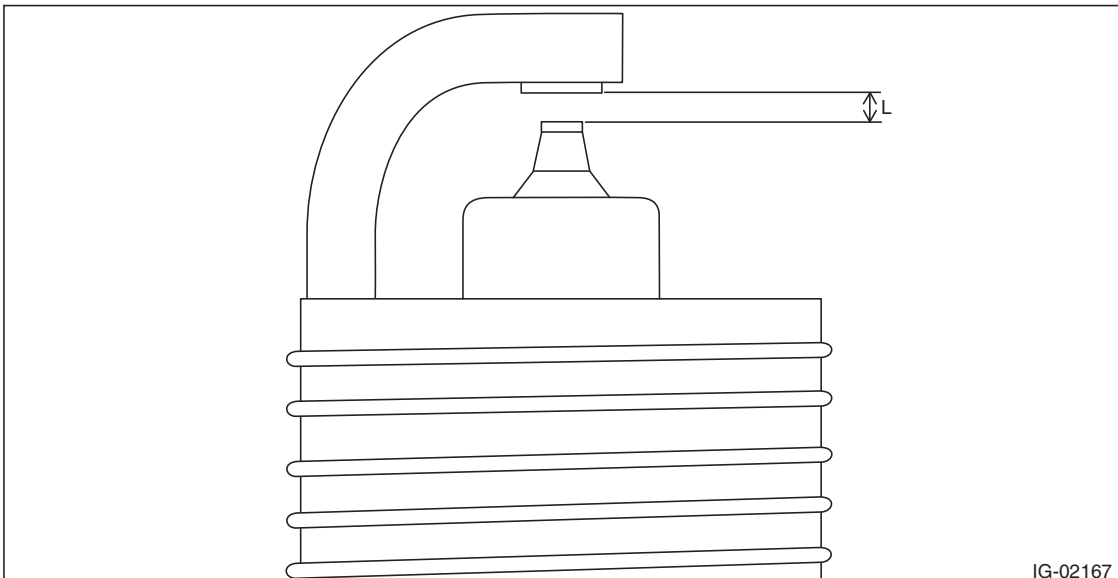
NOTE:

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

Spark plug gap L:

Standard

0.50 — 0.55 mm (0.020 — 0.022 in)



3. Ignition Coil

A: REMOVAL

Direct ignition type is adopted. Refer to "Spark Plug" for removal procedure. <Ref. to IG(H4DOTC)-4, REMOVAL, Spark Plug.>

B: INSTALLATION

Direct ignition type is adopted. Refer to "Spark Plug" for the installation procedure. <Ref. to IG(H4DOTC)-5, INSTALLATION, Spark Plug.>

C: INSPECTION

For inspection procedure, refer to "Diagnostics for Engine Starting Failure". <Ref. to EN(H4DOTC)(diag)-76, IGNITION CONTROL SYSTEM, Diagnostics for Engine Starting Failure.>

Ignition Coil

IGNITION
