

2005 Ford Focus ZX5 S

2005 ENGINE Engine Ignition - 2.0L And 2.3L - Focus

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SPECIFICATIONS

GENERAL SPECIFICATIONS - LUBRICANTS

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Item	Specification
Silicone Dielectric Compound D7AZ-19A331-A or equivalent	ESE-M1C171-A

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Item	Specification
Base ignition timing (not adjustable)	10 degrees BTDC
Firing order	1-3-4-2
Spark plug gap mm (in)	1.25-1.35 0.049-0.053
Original spark plug	AGSF22YPC
Replacement spark plug	AGSF22YPC

TORQUE SPECIFICATIONS

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Description	Nm	lb-ft	lb-in
Spark plugs	12	9	-
Coil mounting bolts	10	-	89

DESCRIPTION AND OPERATION

ENGINE IGNITION

The electronic ignition (EI) system for the 2.0L and 2.3L engines consists of the following components:

- Coil on plug
- Spark plugs
- Crankshaft position (CKP) sensor
- Camshaft position (CMP) sensor

The crankshaft position (CKP) sensor:

- Is a variable reluctance sensor.
- Is mounted on the engine front cover.
- Is triggered by a 36-minus-1 tooth trigger wheel located on the crankshaft pulley and damper.
- Provides ignition timing and crankshaft speed (RPM) to the powertrain control module (PCM).

Refer to **ELECTRONIC ENGINE CONTROLS** \ , for removal and installation of the CKP sensor.

The coil on plug:

- Is controlled by the PCM.
- Fires two spark plugs simultaneously.

The spark plug:

- Ignites the fuel and air mixture.

DIAGNOSIS AND TESTING

ENGINE IGNITION

See **INTRODUCTION - GASOLINE** article for diagnosis and testing of the ignition system.

REMOVAL AND INSTALLATION

IGNITION COIL-ON-PLUG

Material

MATERIAL SPECIFICATIONS

Item	Specification
Silicone Dielectric Compound D7AZ-19A331-A or equivalent	ESE-M1C171-A

Removal and Installation

1. Disconnect the electrical connector.

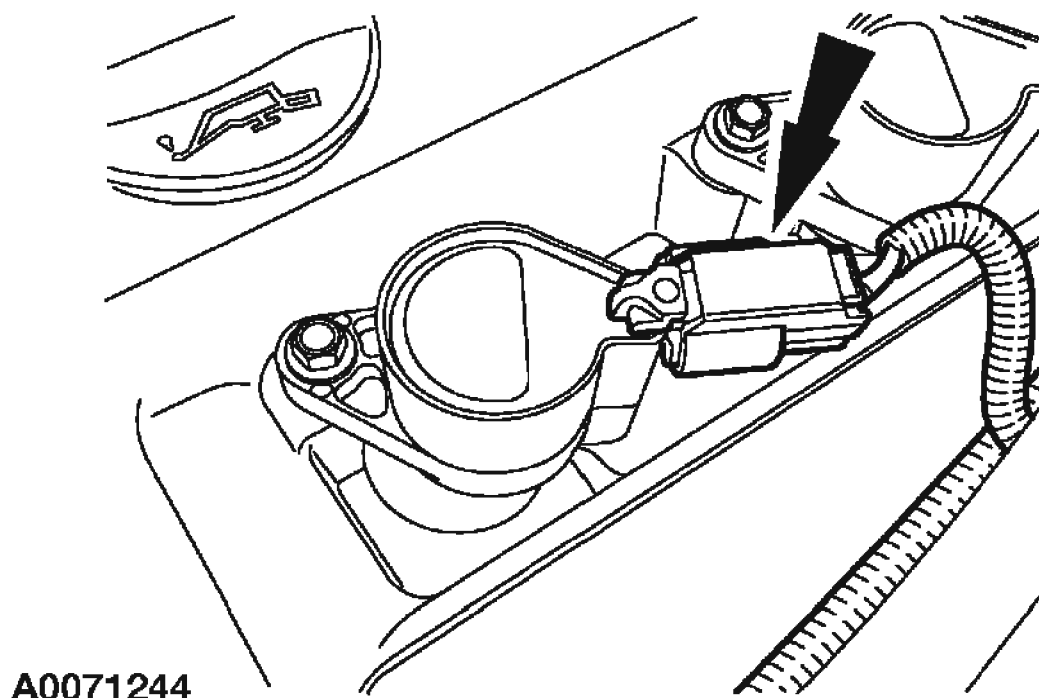


Fig. 1: Disconnecting Ignition Coil Electrical Connector
Courtesy of FORD MOTOR CO.

2. Remove the bolt and the ignition coil.

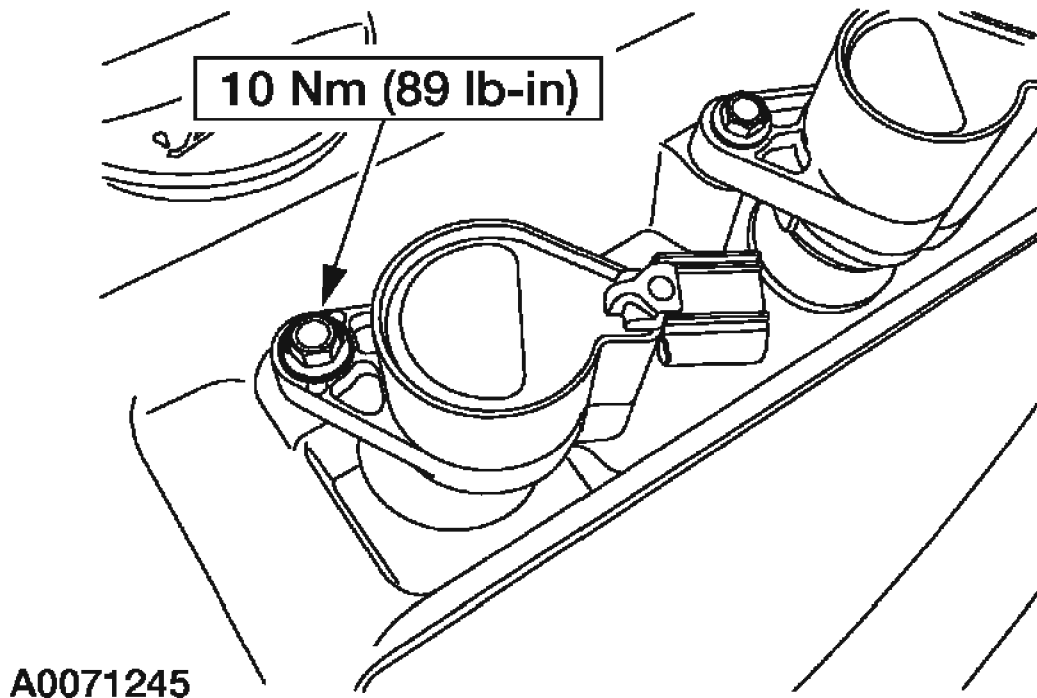


Fig. 2: Removing Ignition Coil Bolt
Courtesy of FORD MOTOR CO.

3. To install, reverse the removal procedure.
 - Apply silicone dielectric compound to the inside of the ignition coil boot.

SPARK PLUG

Removal and Installation

1. Remove the ignition coil. For additional information, refer to **IGNITION COIL-ON-PLUG**.

NOTE: Remove foreign material with compressed air.

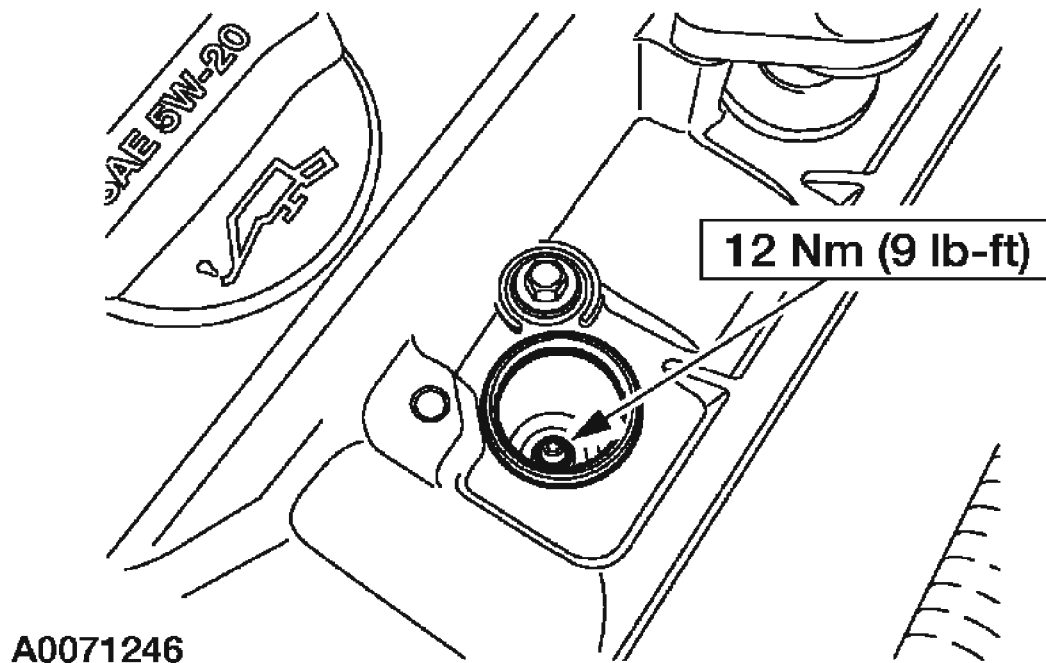
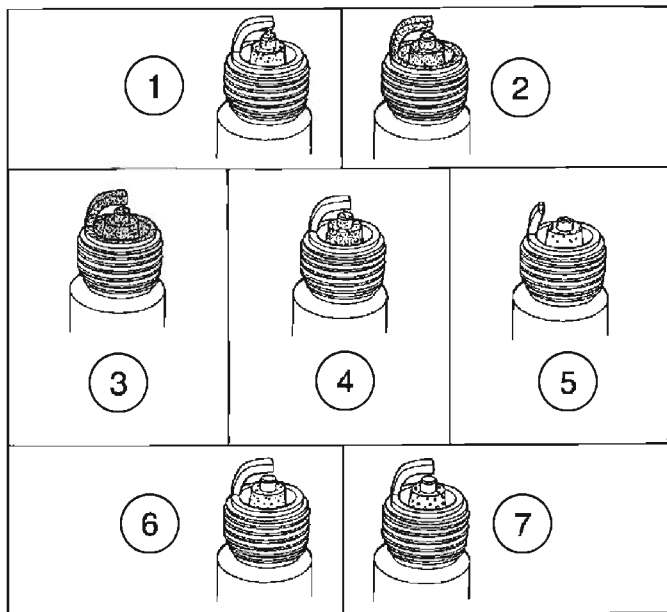


Fig. 3: Removing Spark Plug
Courtesy of FORD MOTOR CO.

2. Remove the spark plug.
3. Inspect the spark plugs.

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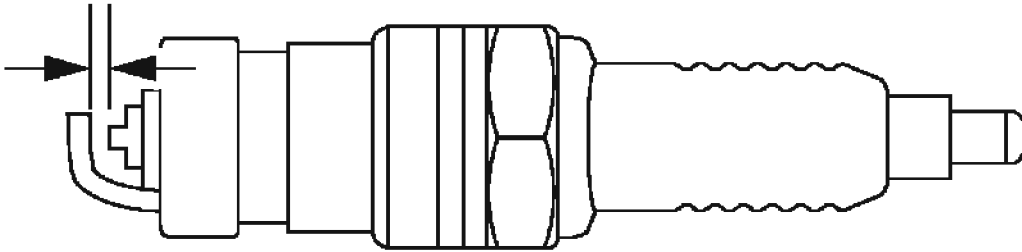
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Item	Part Number	Description
1	—	Deposits bridging spark plug gap
2	—	Wet black deposits (oil fouling)
3	—	Dry black deposits (carbon fouling)
4	—	Normal spark plug
5	—	Pre-ignition
6	—	Overheating
7	—	Fused spot deposits

Fig. 4: Inspecting Spark Plugs
Courtesy of FORD MOTOR CO.

4. Check and adjust the spark plug gap as necessary.

**1.25-1.35 mm
(0.049-0.053 in)**



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Fig. 5: Checking Spark Plug Gap
Courtesy of FORD MOTOR CO.

5. To install, reverse the removal procedure.