2012 - Mazda6 - Engine

SPARK PLUG INSPECTION [MZR 2.5]

Specification

Spark plug type

- NGK ILTR5A13G, NGK LTR5BI13

Plug Gap Inspection

CAUTION:

1. To avoid possible damage to the tip, do not adjust the spark plug gap. (NGK ILTR5A13G)
2. To prevent damaging the tip, use a wire type plug gap gauge when inspecting the spark plug gap. (NGK ILTR5A13G)

1. Measure the spark plug gap using a wire type plug gap gauge.
    1. If not within the standard specification, replace the spark plug. (NGK ILTR5A13G)
    2. If the spark plug gap is not within the specification, adjust it. (NGK LTR5BI13)

    Spark plug gap (NGK ILTR5A13G)

    - Standard: 1.25—1.45 mm {0.049—0.057 in}
    - New spark plug (reference): 1.25—1.35 mm {0.049—0.053 in}

    Spark plug gap (NGK LTR5BI13)

    - Standard: 1.25—1.35 mm {0.049—0.053 in}

Cleaning

CAUTION:

1. Carbon may adhere to the tip of the spark plug during vehicle delivery or repeated short distance driving during the winter time. If there is any malfunction such as rough idling or start difficulty due to carbon adhesion causing plug fouling, burn off the carbon by performing no-load racing of the engine.
2. When performing the no-load racing, apply the side brake and foot brake, move the shift lever to neutral (MTX), or the selector lever to P position (ATX) to prevent an accident and serious injury.

3. To avoid possible damage to the spark plug tip, do not use a wire brush for cleaning. (NGK ILTR5A13G)

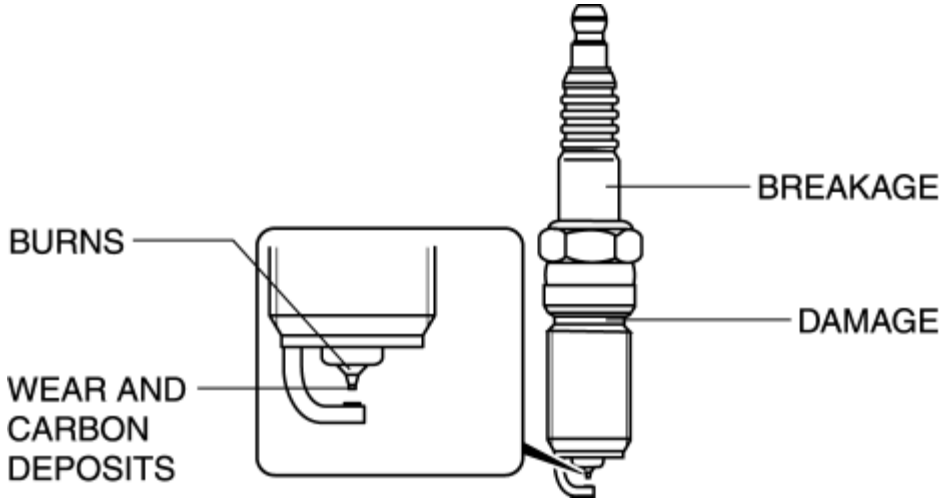
NOTE:

1. To avoid possible damage to the tip, use gasoline to clean the spark plugs after removing dirt.
2. If the accelerator pedal is depressed continuously for a specified time, the engine speed may decrease to the idle speed. This is due to the fuel cut control operation, which prevents overheating, and it does not indicate a malfunction.
3. Do not perform no-load racing at high engine speed continuously for **10 s or more**.

1. If there is carbon adhering to the spark plug, perform no-load racing at **4,000 rpm** for **2 min, 2 times**.

Visual Inspection

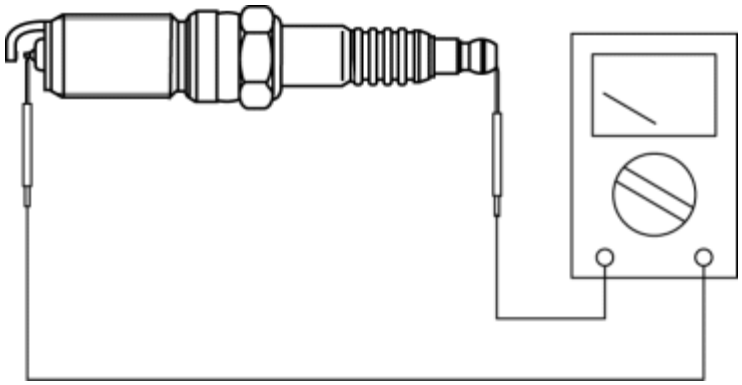
1. Inspect the following items:



- If any of the following malfunctions are indicated, replace the spark plug.
  - Insulator breakage
  - Worn electrode
  - Damaged gasket
  - Badly burned insulator (sparking side)

Resistance Inspection

1. Measure the resistance of the spark plug using a tester as shown in the figure.



- If not within specification, replace the spark plug.

  Spark plug resistance [25°C {77 °F}]

1. 3.0—7.5 kilohms

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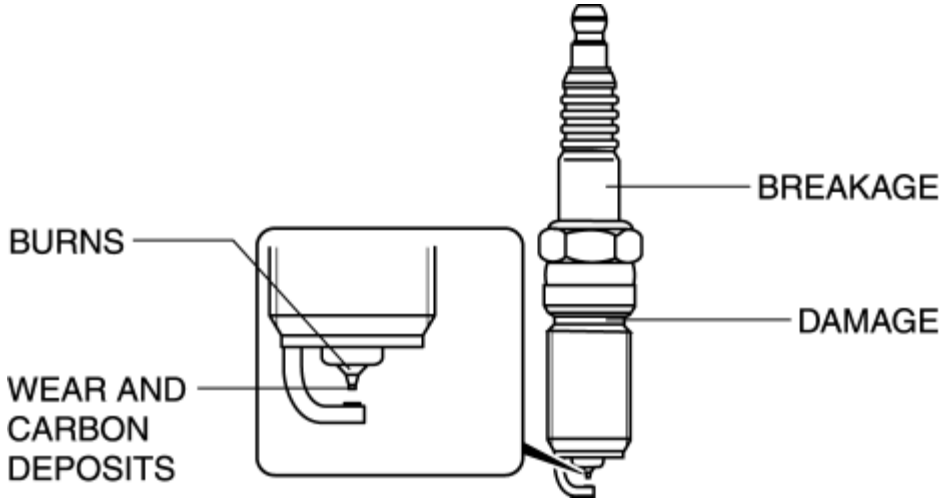

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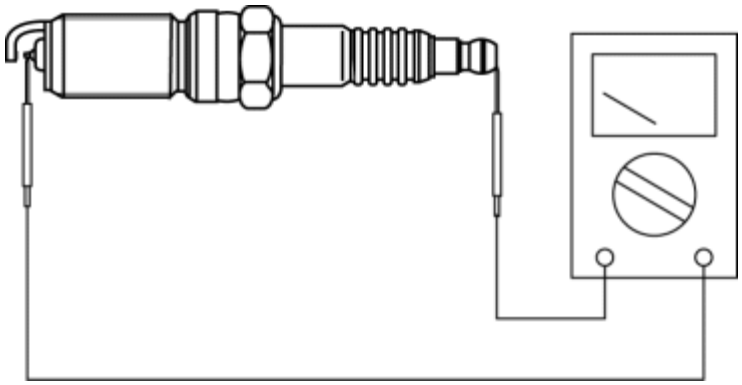

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