

Component Procedures: Spark Plug

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Component Procedures: Spark Plug

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Ignition System > Spark Plugs, R&R	C	1.0	0.0
Remove & Install	Ignition System > Spark Plugs, R&I	C	1.0	0.0

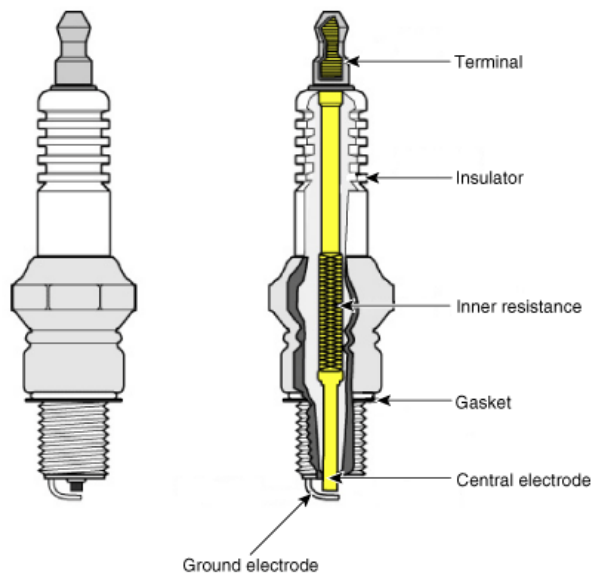
Specifications Quick Reference (itype_439)

Quick Specifications

- item

Spark Plug - Description and Operation (Article 44020)

- Description



Spark Plug - Repair Procedures (Article 44023)

- Inspection

[On vehicle inspection]

- Accelerate the engine to about 3,000rpm 3 times or more.

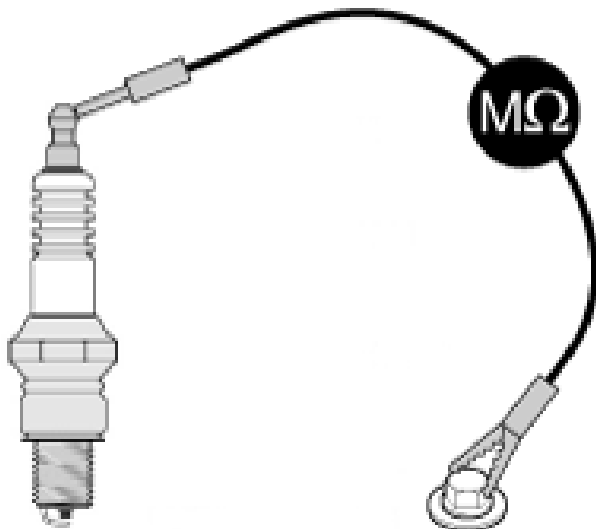
- Remove the spark plug .

- Check the spark plug visually. If the electrode is dry, the spark plug is normal. If the electrode is wet, check the damage and electrode gap as below.

[Component Inspection]

- Check the spark plug for any damage on its thread and insulator. If there is damage, replace the spark plug.

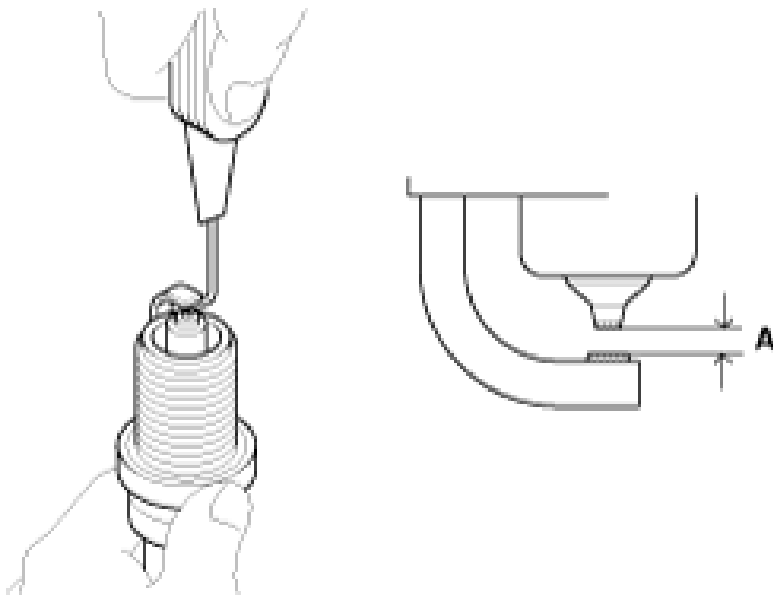
- Check the electrode. Measure the insulation resistance with an ohmmeter. If the resistance is less than the specified value, adjust the electrode gap. Specification : 10 MΩ or more



- Check the spark plug electrode gap. If the gap is greater than the maximum, replace the spark plug.
Specification : 0.8 - 0.9 mm (0.0314 - 0.0354 in.) If adjusting the gap of a new spark plug, bend only the base of the ground electrode. Do not touch the tip. Never attempt to adjust the gap on a used plug.
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NOTICE

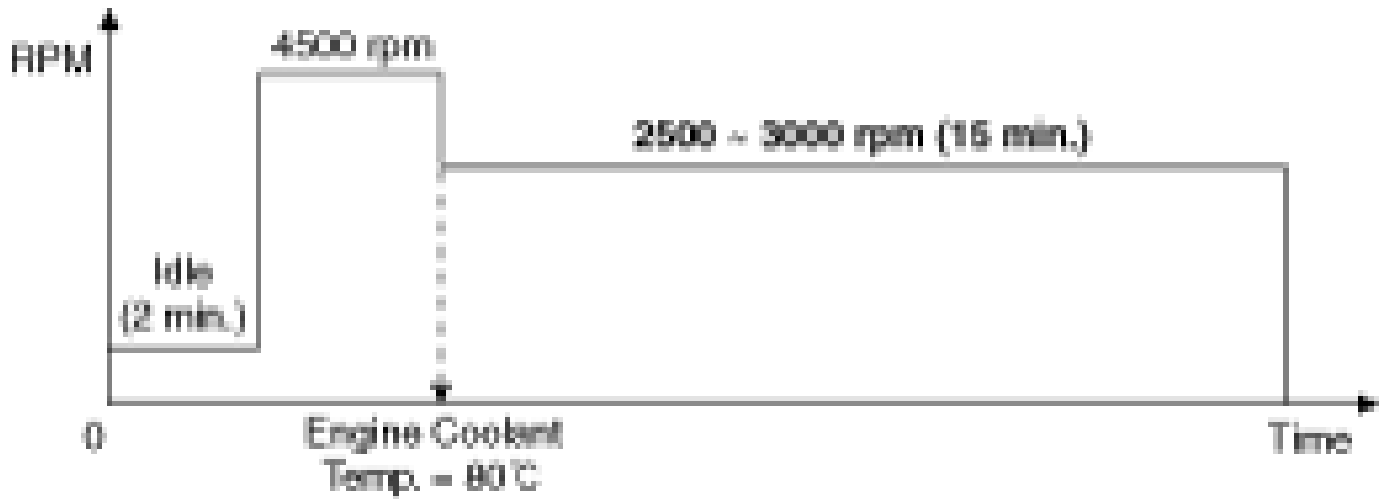
- If adjusting the gap of a new spark plug, bend only the base of the ground electrode. Do not touch the tip. Never attempt to adjust the gap on a used plug.



- Cleaning

[1st Method]

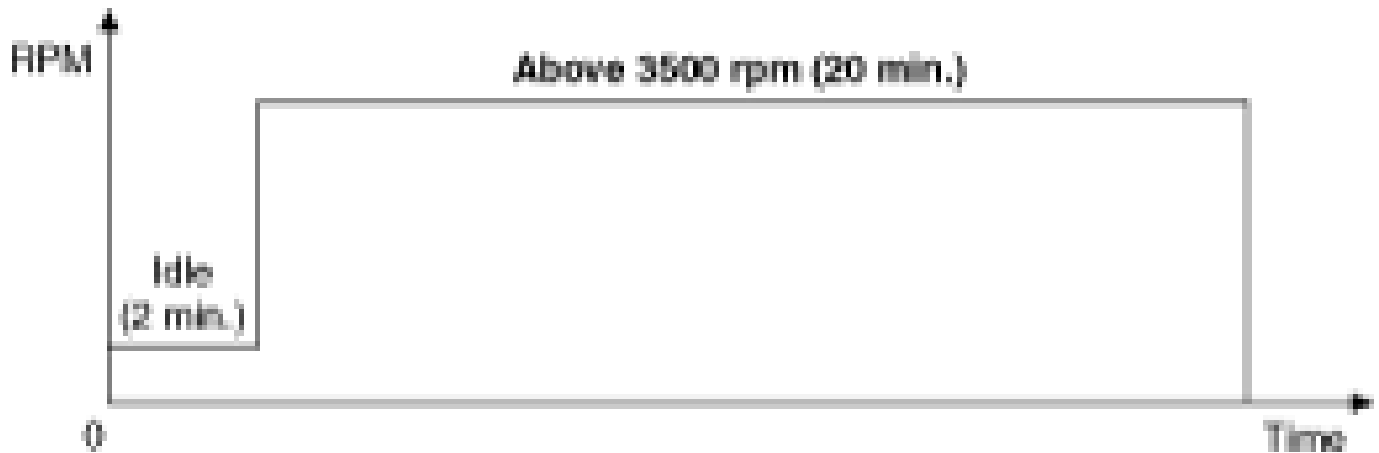
- Start the engine and keep the engine running at idle for 2 minutes.
- Step on the accelerator pedal and hold it steady at 4500 rpm with the shift lever in N position to warm up the engine until the temperature of the engine coolant reaches 80°C.
- Keep the engine running at 2500-3000rpm in the N position for 15 minutes.



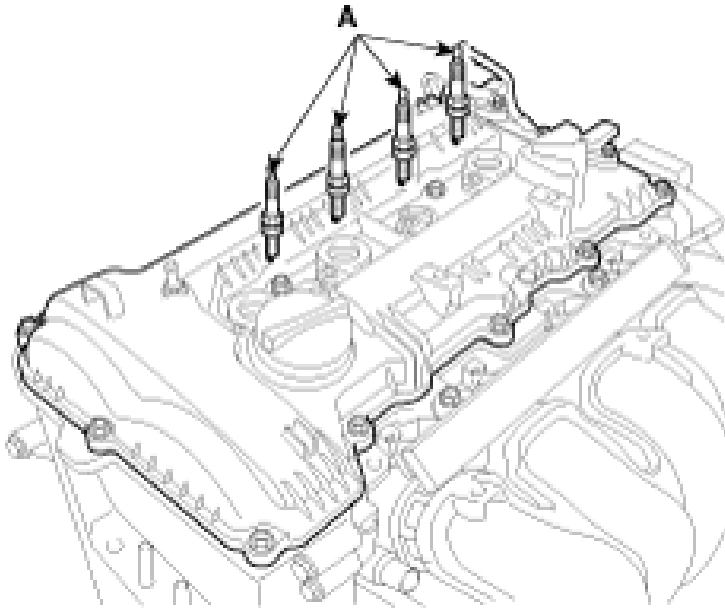
[2nd Method]

The 2nd method should be performed only if the 1st method fails (the misfire-related codes recur).

- The 2nd method should be performed only if the 1st method fails (the misfire-related codes recur).
- Drive the vehicle for over 20 minutes, keeping the engine speed above 3500rpm. If equipped with manual transaxle, shift the gear properly for keeping the engine speed above 3500 rpm.
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- Removal
- Remove the ignition coil . (Refer to Ignition System - "Ignition Coil")
- Using a spark plug wrench, remove the spark plug (A). Be careful that no contaminates enter into spark plug holes.
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- Installation

- Install in the reverse order of removal. Tightening torque : 14.7 - 24.5 N.m (1.5 - 2.5 kgf.m, 10.9 - 18.0 lb-ft)

Spark Plug - Specifications (Article 44022)

- Specification

Item Specification

Type ELR9IQP9+

Gap 0.8 - 0.9 mm (0.0314 - 0.0354 in.)