

NGK BCPR6EIX-11

NGK IRIDIUM IX Spark Plug BCPR6EIX-11 (4919) Instruction Manual

INTRODUCTION

The NGK IRIDIUM IX Spark Plug BCPR6EIX-11 (Part Number 4919) is a high-performance ignition component designed for various automotive applications, including cars and trucks. This manual provides essential information for proper installation, maintenance, and understanding of its specifications to ensure optimal engine performance and longevity. These spark plugs are typically sold in packs of six.

SETUP AND INSTALLATION

Proper installation of spark plugs is critical for engine performance and safety. Always refer to your vehicle's service manual for specific instructions and torque specifications.

1. **Safety First:** Ensure the engine is cool before beginning work. Disconnect the negative terminal of the vehicle's battery to prevent accidental electrical discharge.
2. **Identify and Access:** Locate the spark plugs, which are typically covered by ignition coils or spark plug wires. Carefully remove these components.
3. **Remove Old Plugs:** Use a spark plug socket to loosen and remove the old spark plugs. Inspect them for signs of wear or engine issues.
4. **Inspect New Plugs:** NGK IRIDIUM IX spark plugs are generally pre-gapped from the factory. Verify the gap against your vehicle's specifications, but avoid adjusting the fine-wire iridium electrode unless absolutely necessary and with extreme care to prevent damage. The thread size for this model is 14 millimeters.
5. **Install New Plugs:** Thread the new spark plugs into the cylinder head by hand to avoid cross-threading. Once finger-tight, use a torque wrench to tighten them to the manufacturer's specified torque. Over-tightening can damage the spark plug or cylinder head, while under-tightening can lead to poor heat transfer and engine damage.
6. **Reassemble:** Reinstall the ignition coils or spark plug wires, ensuring they are securely connected. Reconnect the battery terminal.



This image displays a single NGK IRIDIUM IX spark plug alongside its product packaging. The spark plug features a white ceramic insulator with 'IRIDIUM' printed on it, a metal shell, and a fine-wire iridium electrode. The blue and silver packaging box prominently displays the 'NGK IRIDIUM IX' logo.

OPERATING PRINCIPLES

Once installed correctly, NGK IRIDIUM IX spark plugs contribute to efficient combustion, improved fuel economy, and consistent engine performance. They are designed for long-term reliability under various operating conditions. The iridium alloy tip provides a consistent spark, which is crucial for optimal engine function.

MAINTENANCE

Spark plugs are wear items and require periodic inspection and replacement. Consult your vehicle's maintenance schedule for recommended intervals.

- **Inspection:** During routine maintenance, visually inspect spark plugs for signs of wear, fouling, or damage. A healthy spark plug typically has a light tan or grayish-white deposit on the insulator tip.
- **Replacement:** Replace spark plugs according to your vehicle manufacturer's recommendations or if signs of wear (e.g., eroded electrodes, heavy deposits) are observed. NGK IRIDIUM IX plugs are known for their extended service life.

TROUBLESHOOTING

Issues related to spark plugs can manifest as various engine problems. If you experience any of the following, consider inspecting or replacing your spark plugs:

- **Engine Misfires:** A common symptom of a failing spark plug, leading to rough idling or loss of power.
- **Reduced Fuel Economy:** Inefficient combustion due to worn spark plugs can lead to increased fuel consumption.
- **Difficulty Starting:** Weak or inconsistent spark can make the engine harder to start.
- **Rough Idling:** An engine that idles unevenly may have one or more spark plugs not firing correctly.

If these issues persist after spark plug inspection or replacement, consult a qualified automotive technician.

SPECIFICATIONS

Feature	Specification
Brand	NGK
Core Material	Iridium
Thread Size	14 millimeters
Top Material Type	Iridium Alloy
Vehicle Service Type	Car, Truck
Item Weight	10.6 ounces (for the pack)
Product Dimensions	3.31 x 0.94 x 4.98 inches (packaging)
Item Model Number	4919
Manufacturer Part Number	BCPR6EIX-11

WARRANTY AND SUPPORT

For specific warranty information regarding your NGK IRIDIUM IX Spark Plugs, please refer to the documentation included with your purchase or contact NGK customer support directly. For technical assistance or further inquiries, please reach out to the seller or NGK's official support channels.

This manual is for informational purposes only. Always consult a qualified professional for complex automotive repairs.