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› NGK Spark Plug Stock # 6965 User Manual

NGK CR6E

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Model: CR6E

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your NGK Spark Plug Stock # 6965, model CR6E. NGK spark plugs are designed to deliver reliable ignition performance for a variety of engines, ensuring efficient combustion and optimal engine operation. Please read this manual thoroughly before installation to ensure safety and proper function.



Image: The NGK Spark Plug Stock # 6965 (model CR6E) shown alongside its yellow and red packaging box.

PRODUCT OVERVIEW

The NGK CR6E spark plug is a standard type spark plug featuring a copper core for excellent heat dissipation and conductivity. It is designed for specific vehicle service types including ATVs, Dirt Bikes, Go Karts, and Scooters. Key components include the ceramic insulator, metal shell with threads, and the central electrode.

- **Model Number:** CR6E
- **Stock Number:** 6965
- **Core Material:** Copper
- **Thread Size:** 14mm or 14.5mm
- **Top Material Type:** Ceramic
- **Dimensions:** Approximately 0.28 x 0.35 x 1.18 inches





Image: A detailed view of the NGK CR6E spark plug, highlighting its ceramic insulator and metal threaded body.

INSTALLATION (SETUP)

Proper installation of spark plugs is crucial for engine performance and longevity. Always refer to your vehicle's service manual for specific torque specifications and procedures.

1. **Safety First:** Ensure the engine is cool before beginning work. Disconnect the negative terminal of the battery to prevent accidental starting.
2. **Locate Spark Plugs:** Identify the spark plug wires or coil-on-plug units connected to the spark plugs.
3. **Remove Wires/Coils:** Carefully disconnect the spark plug wires or remove the ignition coils. Pull on the boot, not the wire.
4. **Clean Area:** Before removing the old spark plugs, clean around the spark plug wells to prevent debris from falling into the combustion chamber. Use compressed air if available.
5. **Remove Old Plugs:** Use a spark plug socket to loosen and remove the old spark plugs. Turn counter-clockwise.
6. **Inspect New Plugs:** Verify the new NGK CR6E spark plug has the correct gap setting for your engine. Refer to your vehicle's manual for the precise gap. Adjust if necessary using a gapping tool, being careful not to damage the electrode.
7. **Install New Plugs:** Thread the new spark plug into the cylinder head by hand to avoid cross-threading. Once finger-tight, use a torque wrench with the spark plug socket to tighten to the manufacturer's specified torque. Overtightening can damage the cylinder head or spark plug.
8. **Reconnect Components:** Reattach the spark plug wires or ignition coils, ensuring they are securely seated.
9. **Reconnect Battery:** Reconnect the negative battery terminal.



Image: An engine bay illustrating the typical location of ignition coils and spark plugs, which need to be accessed for installation.

OPERATING PRINCIPLES

The NGK CR6E spark plug is a critical component of your engine's ignition system. Its primary function is to ignite the air-fuel mixture in the combustion chamber. When high voltage is applied to the central electrode, a spark jumps across the gap to the ground electrode, initiating combustion. This process occurs thousands of times per minute, providing the

power for your vehicle.

A properly functioning spark plug ensures:

- Efficient fuel combustion
- Optimal engine power output
- Reduced emissions
- Smooth engine operation

MAINTENANCE

Spark plugs are wear items and require periodic inspection and replacement to maintain engine performance.

Inspection

- **Visual Check:** Periodically inspect spark plugs for signs of wear, fouling (carbon, oil, or ash deposits), or damage to the electrodes.
- **Gap Check:** Verify the electrode gap is within the manufacturer's specifications. An incorrect gap can lead to misfires or reduced efficiency.
- **Color of Insulator Tip:** A healthy spark plug insulator tip should be light tan or grayish-white. Black, oily, or white (blistered) deposits indicate potential engine issues.

Replacement Interval

Refer to your vehicle's owner's manual for recommended spark plug replacement intervals. Standard copper core spark plugs like the NGK CR6E typically require replacement more frequently than iridium or platinum plugs, often every 15,000 to 30,000 miles, depending on the application and driving conditions.

When replacing, always use the correct spark plug type and heat range specified by the engine manufacturer to ensure optimal performance and prevent engine damage.

TROUBLESHOOTING COMMON ISSUES

Issues related to spark plugs often manifest as engine performance problems.

Symptom	Possible Cause (Spark Plug Related)	Solution
Engine Misfires or Rough Idling	Fouled, worn, or incorrectly gapped spark plug; cracked insulator.	Inspect and clean/replace spark plugs. Correct gap. Check for cracks.
Reduced Fuel Economy	Worn or improperly gapped spark plugs leading to inefficient combustion.	Replace spark plugs at recommended intervals. Ensure correct gap.
Difficulty Starting Engine	Severely worn or fouled spark plugs preventing a strong spark.	Inspect and replace spark plugs. Check ignition system components.
Loss of Engine Power/Acceleration	Spark plugs not firing efficiently under load.	Check spark plug condition and gap. Replace if necessary.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic or refer to your vehicle's specific service manual.

SPECIFICATIONS

Attribute	Value
Brand	NGK
Model Number	CR6E
Stock Number	6965
Core Material	Copper
Thread Size	14mm or 14.5mm
Top Material Type	Ceramic
Product Dimensions	0.28 x 0.35 x 1.18 inches
Item Weight	1.06 ounces (0.07 Pounds)
Vehicle Service Type	ATVs, Dirt Bikes, Go Karts, Scooters

WARRANTY AND SUPPORT

For specific warranty information regarding your NGK Spark Plug, please refer to the official NGK website or contact NGK customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance or further inquiries, please visit the official NGK website or consult an authorized NGK dealer.

Official NGK Website: www.ngksparkplugs.com