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› NGK (9786) RC-ZX19 Spark Plug Wire Set Instruction Manual

NTK RC-ZX19

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Instruction Manual

INTRODUCTION

The NGK (9786) RC-ZX19 Spark Plug Wire Set is engineered for optimal ignition performance and durability in automotive applications. These wires feature a 7mm ultra-low resistance magnetic core, wire wound ignition cable, and high-temperature silicone jackets designed to withstand extreme under-hood conditions. Built to meet stringent OEM tolerances, NGK wire sets provide superior firing, fuel efficiency, and consistent performance by effectively suppressing radio frequency interference through variable pitch wire winding.

PRODUCT COMPONENTS



Figure 1: The NGK RC-ZX19 Spark Plug Wire Set, featuring four blue wires with black boots, designed for efficient power transfer to spark plugs.

This set includes four spark plug wires with a coil lead, designed for direct replacement and enhanced performance. Each wire is constructed with a high-temp silicone outer jacket that resists moisture, oil, petrol, and cracking from temperature extremes. The positive-locking, corrosion-resistant stainless steel terminal ends ensure a tight fit and maximum resistance to vibration and separation.



Figure 2: Packaging for the NGK Spark Plug Wire Set, highlighting its OEM fit and design.

The product is supplied in its original packaging, which emphasizes the exact OEM fit and design, ensuring compatibility and ease of installation for various vehicle models.

KEY FEATURES

- **Set includes 4 wires (w/Coil Lead):** Complete set for standard four-cylinder applications.
- **Variable pitch winding:** Delivers ultra-low resistance, a powerful spark, and outstanding EMI/RFI noise

suppression.

- **Numbered for easy cylinder identification:** Facilitates correct and easy installation, with coil wires color-coded.
- **Positive-locking, corrosion-resistant stainless steel terminal ends:** Ensures a secure connection, resisting vibration and separation.
- **High-temp (250°+ C / 482°+ F) silicone outer jacket:** Provides resistance against moisture, oil/petrol, and cracking due to temperature extremes.

INSTALLATION AND SETUP

Proper installation of spark plug wires is crucial for vehicle performance and safety. Always consult your vehicle's service manual for specific instructions and safety precautions before beginning any work.

Safety Precautions:

- Ensure the engine is cool and the ignition is off.
- Disconnect the negative terminal of the vehicle's battery to prevent accidental starting or electrical shock.
- Wear appropriate personal protective equipment, including gloves and eye protection.

Installation Steps:

1. **Identify and Label:** Before removing any wires, note the routing of the existing spark plug wires and their connection points on both the spark plugs and the distributor/coil pack. NGK wires are numbered for easy cylinder identification; match these numbers to your engine's cylinder order.
2. **Remove Old Wires (One by One):** To avoid mixing up firing order, replace wires one at a time. Grasp the spark plug boot, not the wire, and twist gently while pulling to remove it from the spark plug. Repeat for the distributor/coil pack end.
3. **Inspect and Clean:** Inspect the spark plugs for wear and replace if necessary. Clean any debris from around the spark plug wells and coil/distributor terminals.
4. **Install New Wires:** Apply a small amount of dielectric grease (not included) to the inside of the new spark plug boots. Push the new wire firmly onto the spark plug until you feel or hear a click, indicating it is fully seated. Route the wire correctly, ensuring it does not touch hot engine components or moving parts.
5. **Connect to Distributor/Coil Pack:** Connect the other end of the wire to the corresponding terminal on the distributor or coil pack, ensuring a secure, positive-locking connection.
6. **Repeat:** Continue this process for each spark plug wire until all old wires are replaced with new NGK wires.
7. **Reconnect Battery:** Once all wires are securely installed, reconnect the negative terminal of the vehicle's battery.
8. **Test:** Start the engine and listen for any misfires or unusual noises. Ensure smooth operation.

OPERATION

Spark plug wires are a critical component of a vehicle's ignition system. Their primary function is to transfer high voltage from the ignition coil or distributor to the spark plugs, creating the spark necessary to ignite the air-fuel mixture in the engine's cylinders. The NGK RC-ZX19 wire set is designed to ensure efficient and consistent delivery of this high voltage, minimizing energy loss and radio frequency interference (RFI) that can affect other electronic systems in the vehicle. The variable pitch winding technology helps to scramble and break up electrical waves, providing superior noise suppression across a wide range of frequencies.

MAINTENANCE

While spark plug wires are generally durable, periodic inspection can help ensure their longevity and optimal performance:

- **Visual Inspection:** Regularly check the wires for any signs of cracking, fraying, burns, or rodent damage. Pay close attention to the boots at both ends for signs of deterioration or arcing.
- **Cleanliness:** Keep the wires and their connection points clean from oil, grease, and dirt, which can degrade the insulation and lead to misfires.
- **Secure Connections:** Periodically ensure that the boots are firmly seated on both the spark plugs and the distributor/coil pack terminals. Loose connections can lead to arcing and poor performance.
- **Routing:** Verify that the wires are properly routed and secured away from hot engine components, sharp edges, and moving parts to prevent damage.
- **Replacement Interval:** While NGK wires are built for durability, spark plug wires are wear items. Consult your vehicle's maintenance schedule or consider replacement if you experience ignition-related issues, typically every 50,000 to 100,000 miles, depending on driving conditions and vehicle type.

TROUBLESHOOTING

If you experience issues after installing or while using your NGK spark plug wire set, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine Misfire / Rough Idling	Loose connection at spark plug or coil/distributor; incorrect firing order; damaged wire.	Ensure all boots are fully seated. Double-check firing order against vehicle manual. Inspect wires for visible damage; replace if necessary.
Engine Hesitation / Poor Acceleration	High resistance in one or more wires; arcing.	Check wires for signs of arcing (burn marks, carbon tracks). Test wire resistance with a multimeter (consult specifications for expected values). Replace faulty wires.
Check Engine Light (CEL) with Misfire Codes	Faulty spark plug wire; worn spark plug; faulty ignition coil.	Identify the cylinder(s) with misfire codes. Inspect the corresponding wire and spark plug. Consider testing or replacing the ignition coil if wires and plugs are confirmed good.
Radio Frequency Interference (RFI) with Audio System	Insufficient RFI suppression; improper grounding.	Ensure wires are properly routed and not touching other electrical components. Verify proper engine and chassis grounding. NGK wires are designed for excellent RFI suppression, so check for external interference sources if the issue persists.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Brand	NTK (NGK)
Model Number	RC-ZX19
UPC	087295097861
Material	Alloy Steel, Silicone
Item Weight	0.7 Pounds (approx. 11.2 ounces)
Connector Type	Spark Plug Boot, Distributor Boot
Manufacturer Part Number	RC-ZX19
OEM Part Numbers	8bbr-18-140, 8bgh-18-140a, 8bgk-18-140a, 8bh3-18-140c, 8bhc-18-140b, 8bk1-18-140a, b61p-18-140b, fs01-18-140, n326-18-140c, n380-18-140
Outer Jacket Temperature Resistance	Up to 250°C / 482°F

WARRANTY AND SUPPORT

NGK (NTK) products are manufactured to high standards of quality and durability. The packaging for this product indicates a **Limited Lifetime Warranty**. For specific details regarding warranty coverage, claims, or technical support, please refer to the official NTK/NGK website or contact their customer service directly. Keep your proof of purchase for warranty purposes.

For additional information or assistance, you may visit the official NTK Store on Amazon [NTK Store](#).