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› NGK Standard Spark Plugs Instruction Manual

**Sixity Auto 4024165898**

# NGK Standard Spark Plugs Instruction Manual

Brand: Sixity Auto | Model: 4024165898

## 1. PRODUCT OVERVIEW

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This manual provides essential information for the installation, operation, and maintenance of your 16 pc NGK Standard Spark Plugs from Sixity Auto. These spark plugs are designed as direct replacement auto parts, ensuring compatibility and optimal performance for specific vehicle applications.

**Compatibility:** This 16-pack of NGK Standard Spark Plugs is compatible with Mercedes-Benz S500 5.0L V8 models from 2000 to 2006. Please confirm vehicle fitment to ensure proper application.



Image 1.1: Sixteen NGK Standard Spark Plugs in their packaging. These are genuine NGK parts, ensuring quality and reliability.

## 2. SPECIFICATIONS

Specification	Value
Brand	Sixity Auto
Model Number	4024165898
Core Material	Copper
Gap Size	1 Millimeters (0.039" - 0.044" depending on year, refer to vehicle manual)
Thread Size	14mm
Top Material Type	Ceramic
Item Weight	1.76 pounds

Product Dimensions	3.31 x 0.94 x 13.28 inches
Vehicle Service Type	Mercedes-Benz S500 5.0L V8 (2000-2006)

### 3. INSTALLATION GUIDE

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**Important:** Spark plug replacement can be complex. If you are not experienced with automotive maintenance, it is highly recommended to seek professional assistance to avoid damage to your vehicle or injury. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

#### 3.1. Preparation

- Ensure the engine is cool to the touch before beginning work.
- Gather necessary tools: spark plug socket (typically 5/8 inch or 16mm for NGK), ratchet, torque wrench, spark plug gap tool, dielectric grease, anti-seize compound (optional, but recommended for certain applications), and a spark plug wire puller (if applicable).
- Disconnect the negative terminal of the vehicle's battery to prevent accidental electrical discharge.
- Identify the location of the spark plugs. For the Mercedes-Benz S500 5.0L V8, there are 16 spark plugs (dual plug system).
- Clean the area around the spark plugs to prevent debris from falling into the combustion chamber when plugs are removed.

#### 3.2. Removal of Old Spark Plugs

1. Carefully disconnect the spark plug wires or ignition coils from the spark plugs. Label them if necessary to ensure correct reinstallation.
2. Using the appropriate spark plug socket and ratchet, loosen each spark plug by turning counter-clockwise.
3. Remove the old spark plugs. Inspect them for signs of wear, oil fouling, or other issues, which can indicate underlying engine problems.

#### 3.3. Installation of New Spark Plugs

1. **Check Gap:** Although NGK spark plugs are typically pre-gapped, always verify the gap using a spark plug gap tool according to your vehicle's specifications (e.g., 0.039" or 0.044" for S500, refer to your specific year's manual). Adjust carefully if needed.
2. Apply a small amount of anti-seize compound to the threads of the new spark plugs (*do not apply to the electrode or insulator*). This helps prevent seizing in the cylinder head.
3. Apply a thin layer of dielectric grease inside the spark plug boot to prevent voltage leaks and make future removal easier.
4. Carefully thread each new spark plug into its port by hand to avoid cross-threading.
5. Once hand-tight, use a torque wrench to tighten the spark plugs to the manufacturer's specified torque setting. *Over-tightening can damage the spark plug or cylinder head; under-tightening can lead to misfires or blow-outs.*
6. Reconnect the spark plug wires or ignition coils, ensuring they click securely into place.

#### 3.4. Post-Installation Checks

- Double-check all connections.
- Reconnect the negative battery terminal.
- Start the engine and listen for any unusual noises or misfires.
- Take the vehicle for a short test drive to ensure proper operation.

## 4. FUNCTION AND OPERATION

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Spark plugs are critical components of your vehicle's ignition system. They ignite the air-fuel mixture in the engine's combustion chambers, creating the power stroke that drives the engine. NGK Standard Spark Plugs are designed to provide reliable ignition and consistent performance, contributing to efficient fuel combustion and smooth engine operation.

## 5. MAINTENANCE

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Regular inspection and timely replacement of spark plugs are vital for maintaining engine health and performance. Consult your vehicle's owner's manual for the recommended spark plug inspection and replacement intervals. Factors such as driving conditions and fuel quality can influence spark plug lifespan.

- **Inspection:** During routine maintenance, inspect spark plugs for signs of wear, carbon buildup, or damage.
- **Replacement:** Replace spark plugs according to the manufacturer's recommended schedule or if you notice symptoms of failing plugs.
- **Gap:** Ensure the spark plug gap remains within the specified range for your vehicle.

## 6. TROUBLESHOOTING

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If your vehicle exhibits any of the following symptoms, worn or faulty spark plugs may be a contributing factor:

- **Engine Misfires or Rough Idle:** The engine may shake or run unevenly, especially at idle.
- **Reduced Fuel Economy:** Inefficient combustion due to worn plugs can lead to increased fuel consumption.
- **Difficulty Starting:** Weak spark can make the engine harder to start.
- **Lack of Acceleration or Power:** The engine may feel sluggish or lack its usual power.
- **Check Engine Light:** A misfire can trigger the check engine light. Diagnostic trouble codes (DTCs) can help pinpoint the issue.

If you experience these issues, consider inspecting your spark plugs or consulting a qualified mechanic.

## 7. WARRANTY AND SUPPORT

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Sixity Auto stands behind the quality of its products. For specific warranty information or technical support regarding your NGK Standard Spark Plugs, please refer to the documentation included with your purchase or visit the official Sixity Auto website. Our customer service team is available to assist with product inquiries and support.



*Video 7.1: An informational video from Sixity Auto showcasing their commitment to quality auto parts. This video provides an overview of the brand's operations and product philosophy.*

For further assistance, you may contact Sixity Auto directly through their official channels. You can find more information and contact details on the [Sixity Auto Store on Amazon](#).