

E3 E3.48

E3 Spark Plugs E3.48 Premium Automotive Spark Plug Instruction Manual

Model: E3.48

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1. INTRODUCTION

This manual provides essential information for the E3.48 Premium Automotive Spark Plug. It covers product features, specifications, installation guidelines, operational principles, maintenance recommendations, and troubleshooting tips to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The E3.48 spark plug is engineered with DiamondFIRE Technology to enhance engine performance, fuel efficiency, and reduce emissions. It features a unique electrode design that promotes a more complete combustion process.

Key Features:

- **DiamondFIRE Technology:** Patented side-wire electrode design for improved combustion.
- **Enhanced Power Output:** Designed to increase engine power.
- **Improved Fuel Economy:** Contributes to reduced fuel consumption.
- **Reduced Emissions:** Promotes cleaner combustion and lower hydrocarbon emissions.
- **Versatile Compatibility:** Suitable for a wide range of domestic automotive and truck models.
- **Long-Lasting Performance:** Engineered for extended service life.

Product Image:

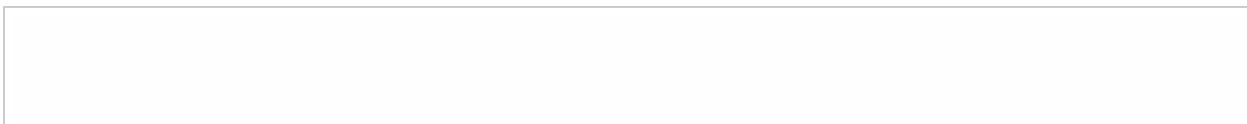






Figure 1: E3.48 Premium Automotive Spark Plug. This image displays the full spark plug, highlighting its ceramic insulator, metal shell with threads, and the unique DiamondFIRE electrode at the tip.

Product Video:

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Video 1: E3 Spark Plugs DiamondFIRE Technology Overview. This video explains the benefits of E3's DiamondFIRE electrode design, demonstrating how it promotes a more complete and efficient combustion compared to standard spark plugs, leading to increased power and fuel efficiency.

3. SPECIFICATIONS

Attribute	Detail
Brand	E3
Model	E3.48
Thread Size	14mm
Reach	0.750 inches
Seat Type	Gasket Seat
Resistor	Yes
Core Material	Copper
Top Material Type	Alloy Steel
Vehicle Service Type	Car
Item Weight	1.6 ounces

Attribute	Detail
Product Dimensions	6.1 x 4.1 x 0.8 inches
UPC	894489000480

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your E3.48 spark plugs. Always consult your vehicle's service manual for specific instructions and torque specifications. The following are general steps:

- 1. Preparation:** Ensure the engine is cool. Disconnect the negative terminal of the battery.
- 2. Access Spark Plugs:** Locate the spark plugs. This may involve removing engine covers, air intake components, or ignition coils.
- 3. Remove Old Plugs:** Carefully remove the spark plug wires or coil-on-plug units. Use a spark plug socket to loosen and remove the old spark plugs. Inspect them for signs of wear or engine issues.
- 4. Install New Plugs:** The E3.48 spark plugs are pre-gapped and do not require adjustment. Thread the new E3.48 spark plugs into the cylinder head by hand to prevent cross-threading.
- 5. Torque to Specification:** Use a torque wrench to tighten the spark plugs to your vehicle manufacturer's recommended specifications. Overtightening or undertightening can cause damage.
- 6. Reconnect Components:** Reinstall spark plug wires or coil-on-plug units, ensuring they are securely connected. Reattach any removed engine components and reconnect the battery.
- 7. Test:** Start the engine and check for smooth operation.

Warning: Incorrect installation can damage your engine. If you are unsure, seek professional assistance.

5. OPERATING PRINCIPLES

The E3.48 spark plug utilizes DiamondFIRE Technology to optimize the combustion process. Its unique ground electrode design creates more turbulence in the air-fuel mixture near the plug, facilitating a faster and more complete burn. This design promotes a larger, more exposed flame front, which directly impacts the piston head, leading to:

- Increased engine power output.
- Reduced gasoline consumption.
- Decreased hydrocarbon and carbon monoxide emissions.
- Smoother acceleration and improved engine performance.

6. MAINTENANCE

E3.48 spark plugs are designed for long-lasting performance. For optimal engine health and to maintain the benefits of DiamondFIRE Technology, it is recommended to replace your E3.48 spark plugs every 5 years or 100,000 miles, whichever comes first. Regular inspection during routine vehicle maintenance is also advised to check for any signs of wear or fouling, although these plugs are designed to resist carbon buildup.

7. TROUBLESHOOTING

If you experience issues after installing or while using E3.48 spark plugs, consider the following common troubleshooting steps:

- **Engine Misfire or Rough Idle:**

- Check spark plug wire connections or coil-on-plug units for secure fit.
- Ensure spark plugs are torqued correctly.
- Consider resetting the engine control unit (ECU) to allow it to adapt to the new spark plugs.

- **Reduced Fuel Economy:**

- Verify proper installation.
- Check other engine components such as air filter, fuel filter, and oxygen sensors.

- **Check Engine Light:**

- Retrieve diagnostic trouble codes (DTCs) using an OBD-II scanner to pinpoint the issue.
- A misfire code (P030x) often indicates an issue with a specific cylinder's ignition.

- **Difficulty Starting:**

- Inspect battery and starter system.
- Ensure fuel delivery system is functioning correctly.

If issues persist after basic troubleshooting, it is recommended to consult a qualified automotive technician.

8. WARRANTY INFORMATION

The E3.48 Premium Automotive Spark Plug includes a **5-year/100,000-mile limited warranty**. This warranty covers defects in materials and workmanship under normal use and service. For specific terms, conditions, and claim procedures, please refer to the official E3 Spark Plugs warranty documentation or contact E3 customer support.

9. SUPPORT AND CONTACT

For further assistance, technical inquiries, or warranty claims regarding your E3.48 spark plugs, please utilize the following resources:

- **Official Website:** Visit the [E3 Spark Plugs website](#) for product information, FAQs, and support resources.
- **Customer Service:** Refer to the contact section on the official E3 website for phone numbers or email support.
- **Authorized Dealers:** Contact your local authorized E3 Spark Plugs dealer or automotive service center for professional assistance.