

E3 E3.18

E3.18 Premium Lawn and Garden Spark Plug User Manual

Model: E3.18

INTRODUCTION

The E3.18 Premium Lawn and Garden Spark Plug is engineered to optimize the performance of 4-cycle, overhead valve small engines. This spark plug is designed for durability and efficiency across a wide range of lawn and garden applications. Its patented DiamondFIRE ground electrode technology promotes enhanced power, improved fuel efficiency, and a significant reduction in hydrocarbon emissions. The innovative design ensures a consistent and reliable spark, minimizing carbon buildup and extending the spark plug's operational life.



Image: E3.18 Spark Plug in its retail packaging, highlighting key features and compatibility.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your E3.18 spark plug. Always refer to your engine manufacturer's service manual for specific spark plug replacement procedures and torque specifications. Ensure the engine is cool before attempting to remove or install spark plugs.

1. **Preparation:** Disconnect the spark plug wire from the existing spark plug. Clean the area around the spark plug to prevent debris from entering the combustion chamber.
2. **Removal:** Use a spark plug wrench (typically 13/16-inch hex size for this model) to carefully remove the old spark plug by turning it counter-clockwise.
3. **Inspection:** Inspect the new E3.18 spark plug for any visible damage. The E3.18 spark plug is pre-gapped and does not require gapping.
4. **Installation:** Thread the new E3.18 spark plug into the cylinder head by hand to prevent cross-threading. Once finger-tight, use the spark plug wrench to tighten it according to your engine manufacturer's recommended torque specifications. The E3.18 features a 14mm thread diameter and 0.750-inch reach with a gasket seat.
5. **Connection:** Reconnect the spark plug wire firmly to the new spark plug.



Image: A close-up view of the E3.18 spark plug's DiamondFIRE electrode, showing its unique design for improved spark performance.

OPERATING BENEFITS

Once installed, the E3.18 spark plug works to enhance your engine's operational characteristics. Its patented DiamondFIRE technology creates an edge-to-edge spark path, which leads to more complete combustion within the engine's cylinders. This results in several key benefits during operation:

- **Quicker Starts:** The efficient spark delivery aids in faster and more reliable engine ignition.
- **More Power:** Improved combustion can lead to an increase in engine power output.
- **Improved Fuel Efficiency:** More complete burning of fuel contributes to better mileage or longer run times.

- **Reduced Emissions:** Efficient combustion helps to lower harmful hydrocarbon and carbon monoxide emissions.
- **Smoother Acceleration:** A consistent spark contributes to a more stable and responsive engine performance.

Video: An official E3 Spark Plugs video demonstrating the DiamondFIRE technology and its benefits for engine performance and efficiency.

MAINTENANCE

The E3.18 spark plug's design, featuring the DiamondFIRE ground electrode, is engineered to minimize carbon buildup and resist performance-degrading deposits. This contributes to a significantly extended lifespan compared to traditional spark plugs.

While E3 spark plugs are designed for long-lasting performance, periodic inspection is recommended as part of your engine's overall maintenance schedule. Check the spark plug for any signs of physical damage or excessive wear. If the engine experiences a noticeable decrease in performance, fuel efficiency, or exhibits hard starting, consider inspecting or replacing the spark plug.

TROUBLESHOOTING

If you experience issues with your engine after installing an E3.18 spark plug, consider the following troubleshooting steps:

- **Hard Starting or Misfires:** Ensure the spark plug wire is securely connected. Verify that the spark plug is correctly torqued to the engine manufacturer's specifications.
- **Reduced Performance:** Check for other potential engine issues such as fuel delivery problems, air filter blockage, or carburetor adjustments. While E3 spark plugs are designed for optimal performance, they cannot compensate for other underlying engine malfunctions.
- **Incorrect Spark Plug Type:** Confirm that the E3.18 is the correct spark plug for your specific engine model. Refer to your engine's manual or the E3 Spark Plugs compatibility chart. The E3.18 is compatible with many engines that use Champion N3C, N4C, N7YC, RN3C, RN4C, RN7YC, and NGK B5EB, B6EB, B6ES, B6EV, B7EB, BR6EB, BR6ES, BR7EB, BUR6ES-11, BUR7EB-11.
- **Physical Damage:** If the spark plug has been dropped or mishandled, inspect it for cracks in the ceramic insulator or damage to the electrode. Replace if damaged.

If problems persist, it is advisable to consult a qualified engine mechanic.

SPECIFICATIONS

Brand	E3
Model Number	E3.18

Thread Size	14mm
Reach	0.750-inch
Seat Type	Gasket Seat
Hex Size	13/16-inch
Core Material	Copper
Gap Size	0.03 Inches
Vehicle Service Type	Lawn and Garden Equipment
Product Dimensions	7 x 4.5 x 1 inches
Item Weight	2.4 ounces
OEM Part Number	E3.18
UPC	894489000183

WARRANTY AND SUPPORT

The E3.18 Spark Plug is backed by a **limited lifetime guarantee**. This warranty ensures peace of mind regarding the quality and performance of your spark plug under normal operating conditions.

For detailed warranty information, claims, or technical support, please refer to the official E3 Spark Plugs website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

E3 Spark Plugs Contact Information:

Please visit the [E3 Store on Amazon](#) or the official E3 Spark Plugs website for the most current support details.