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E3 E3.36

E3 Spark Plugs E3.36 Premium Powersports Spark Plug Instruction Manual

Model: E3.36

Brand: E3



INTRODUCTION

The E3.36 Premium Powersports Spark Plug is engineered for optimal performance in a wide range of powersport applications, including V-Twin motorcycle engines and late-model Harley Davidson engines. This spark plug features a 12mm thread with a 0.750-inch reach and a gasket seat for a secure fit. Its patented DiamondFIRE ground electrode is designed to enhance combustion efficiency, leading to improved power delivery, quicker starts, better fuel economy, and reduced emissions over time. The electrode's design, supported by two legs, ensures superior heat transfer and resilience against the intense vibrations common in powersport engines. The center electrode is constructed from a nickel alloy with a copper core for enhanced conductivity. The E3.36 spark plug is compatible with various other spark plug models, including Champion RA6HC, RA8HC, NGK DPR7EA9, DPR8EA9, DR7EA, DR8EIX, and DR8ES.

E3.36 Powersports Spark Plug

POWERSPORT APPLICATIONS

Wide Range of High-
performance Vehicles

DIAMONDFIRE TECHNOLOGY

Edge-to-edge Electrode

LOWER EMISSIONS

Minimize Carbon
Buildup

LONG-TERM BENEFITS

Reduces CO &
Hydrocarbon Emissions

ENHANCED PERFORMANCE

Improves Power by
Up To 12%



Image: E3.36 Powersports Spark Plug overview, highlighting powersport applications, DiamondFIRE technology, lower emissions, enhanced performance, and long-term benefits.

PRODUCT FEATURES

- **Universal Fit:** Designed to accommodate a broad spectrum of powersport vehicles, including V-Twin motorcycle engines and late-model Harley Davidson engines.
- **DiamondFIRE Technology:** Features a patented edge-to-edge electrode for a more rapid and complete combustion process. This technology contributes to increased power and improved fuel efficiency.
- **Lower Emissions:** Optimized combustion helps to minimize carbon buildup and reduce harmful emissions, supporting environmental compliance.
- **Enhanced Performance:** Specifically engineered for high-performance engines, leading to improved power output and fuel efficiency in both 2-stroke and 4-stroke engines.
- **Long-Term Benefits:** Reduces CO and hydrocarbon emissions, while also minimizing carbon buildup, which contributes to extended engine health and optimized combustion over time.

DiamondFire Technology

Patented edge-to-edge electrode delivers a faster, more complete burn



INCREASING POWER by up to 4%-12% and improving fuel economy by up to 3%-13% depending on engine class

Image: A detailed view of the E3.36 spark plug, showcasing the patented DiamondFIRE electrode design for improved combustion.

INSTALLATION INSTRUCTIONS

Follow these steps to install your E3.36 Premium Powersports Spark Plug. Always refer to your vehicle's service manual for specific torque specifications and safety precautions.

1. **Prepare the Vehicle:** Ensure the engine is cool. Disconnect the negative terminal of the battery if required by your vehicle's manual.
2. **Access the Spark Plug:** Depending on your vehicle, you may need to remove the seat and any plastic covers to access the engine and spark plug location. For many ATVs, this involves removing the seat and then a plastic cap to expose the engine.
3. **Remove the Old Spark Plug:** Carefully detach the spark plug wire from the old spark plug. Use a 5/8-inch deep socket wrench to loosen and remove the old spark plug. Inspect the old spark plug for wear and carbon buildup.
4. **Compare Spark Plugs:** Compare the new E3.36 spark plug with the old one to ensure it is the correct replacement. The E3.36 spark plug is pre-gapped and does not require adjustment.

5. **Install the New Spark Plug:** Hand-thread the new E3.36 spark plug into the engine to avoid cross-threading. Once finger-tight, use the 5/8-inch deep socket wrench to tighten it to the manufacturer's recommended torque specifications. Do not overtighten.
6. **Reconnect:** Reattach the spark plug wire firmly to the new spark plug. Replace any plastic covers and the seat that were removed.
7. **Test the Engine:** Start the engine to confirm proper installation and operation.

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Video: This video demonstrates the process of replacing a spark plug on an ATV, including accessing the engine, removing the old plug, comparing it with a new E3 spark plug, and installing the new one. It highlights the visual difference between a worn and a new spark plug.

Lower Hydrocarbon Emissions

Optimizes combustion to minimize carbon buildup and lower hydrocarbon emissions



LOWER HYDROCARBON EMISSIONS

Supporting cleaner engine operation and improved environmental compliance

Image: A motorcycle exhaust pipe, illustrating the E3.36 spark plug's contribution to lower hydrocarbon emissions.

OPERATING BENEFITS

Once installed, the E3.36 spark plug works to optimize your engine's performance. Users typically experience:

- **Faster Starts:** The efficient spark delivery promotes quicker engine ignition.
- **Increased Power:** Improved combustion efficiency translates to enhanced power output.
- **Better Fuel Efficiency:** A more complete burn of the fuel-air mixture can lead to improved mileage.
- **Smoother Engine Operation:** Consistent and powerful sparks contribute to a more stable and smoother idle and acceleration.

Powersport Applications

Designed to fit a wide range of powersport applications



INCLUDING the V-Twin motorcycle engines, late-model Harley Davidson engines, and other high-performance vehicles.

Image: A V-Twin motorcycle engine, representing the diverse powersport applications for the E3.36 spark plug.

MAINTENANCE

Regular inspection and timely replacement of spark plugs are crucial for maintaining engine health and performance. While E3 spark plugs are designed for durability and long life, factors such as engine type, operating conditions, and fuel quality can influence their lifespan.

- **Inspection:** Periodically check your spark plugs for signs of wear, such as excessive carbon buildup, electrode erosion, or discoloration. A healthy spark plug typically has a light tan or grayish-white deposit on the firing tip.
- **Replacement Interval:** Consult your vehicle's owner's manual for recommended spark plug replacement

intervals. If you notice a decrease in engine performance, harder starting, or reduced fuel efficiency, it may be time to replace your spark plugs, even if they haven't reached the recommended interval.

- **Cleaning:** E3 spark plugs are designed for optimal performance without requiring cleaning. Attempting to clean them may damage the electrode and reduce their effectiveness.

Enhanced Performance

Designed for high-performance engines



IMPROVES power by up to 12%, enhances fuel efficiency by up to 13%, and helps reduce emissions

Image: A motorcycle navigating a winding road, symbolizing the enhanced performance and responsiveness provided by E3 spark plugs.

TROUBLESHOOTING

If you experience issues after installing new E3.36 spark plugs, consider the following:

- **Hard Starting:** Ensure the spark plug wires are securely connected to the spark plugs and the ignition coil. Verify that the spark plugs are tightened to the correct torque.
- **Engine Misfire or Rough Idle:** Check for proper installation of each spark plug and ensure no wires are loose or damaged. Confirm that the E3.36 is the correct spark plug model for your specific engine.
- **Reduced Performance:** While E3 spark plugs are designed to improve performance, other engine

components (fuel system, air filter, ignition coil) can affect overall output. If performance issues persist, consult a qualified mechanic.

- **Incorrect Spark Plug Type:** Always ensure the E3.36 is compatible with your vehicle. Refer to the compatibility list or your vehicle's manual.

SPECIFICATIONS

Feature	Detail
Brand	E3
Model	E3.36
Thread Size	12 millimeters
Reach	0.750 inches
Gasket Seat	Yes
Core Material	Copper
Top Material Type	Alloy Steel
Vehicle Service Type	Motorcycle
Item Weight	1.41 ounces
Product Dimensions	6 x 4 x 1 inches
OEM Part Number	1999+
Manufacturer Part Number	E3.36

E3.36 Powersports Spark Plug

5/8" Hex size



**Non-Adjustable
0.032" Gap Size**



3" Height

**12mm Thread
Diameter/
Gasket Seat
3/4" Thread Length**



Image: E3.36 Powersports Spark Plug in its packaging, displaying key dimensions such as 5/8" Hex size, 3" Height, 12mm Thread Diameter/Gasket Seat, 3/4" Thread Length, and Non-Adjustable 0.032" Gap Size.

WARRANTY AND SUPPORT

For information regarding the warranty of your E3.36 Premium Powersports Spark Plug, please refer to the product packaging or contact E3 Spark Plugs directly through their official website or customer service channels. For technical support or further assistance, please reach out to the manufacturer's customer support team.