

MSD 42921

MSD 42921 Powersports Ignition Coil User Manual

Model: 42921 | Brand: MSD

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your MSD 42921 Powersports Ignition Coil. This high-performance ignition coil is designed to deliver a powerful spark, optimizing combustion in powersports applications. Please read this manual thoroughly before installation and operation to ensure safe and effective use.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's battery before performing any electrical work to prevent accidental shorts or injury.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the ignition system is completely de-energized before touching any components. High voltage can cause severe electrical shock.
- Consult a qualified technician if you are unsure about any installation steps.
- Keep the product away from flammable materials and liquids.

3. PACKAGE CONTENTS

The package should contain the following item:

- 1 x MSD 42921 Powersports Ignition Coil

4. SETUP AND INSTALLATION

The MSD 42921 Powersports Ignition Coil is designed for multi-channel ignition systems and features an isolated ground for optimal performance. Follow these general steps for installation:

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected. Allow the engine to cool if it has been running.

2. **Locate Mounting Position:** Identify a suitable, secure location for mounting the coil. The coil is designed for freestanding installation.
3. **Mount the Coil:** Securely fasten the coil using appropriate hardware through the mounting holes. Ensure it is stable and free from excessive vibration.
4. **Wiring Connections:**
 - Connect the primary wiring from your ignition control unit to the coil's primary terminals. Refer to your ignition control unit's manual for specific wiring diagrams.
 - Connect the high-voltage spark plug wire to the coil's output terminal. Ensure a secure connection.
 - Connect the grounding wire as specified by your ignition system. This coil includes a grounding feature.
5. **Verify Connections:** Double-check all wiring connections for tightness and correct polarity.
6. **Reconnect Battery:** Once all connections are secure and verified, reconnect the vehicle's battery.



Figure 1: The MSD 42921 Powersports Ignition Coil. It is a black, rectangular unit featuring the 'MSD IGNITION' logo embossed on its top surface. A high-voltage terminal extends from one end, and mounting holes are visible on the base.

5. OPERATING INSTRUCTIONS

Once installed correctly, the MSD 42921 Powersports Ignition Coil operates in conjunction with your vehicle's ignition control unit to generate the high voltage necessary for spark plug firing. Its higher turns ratio is specifically matched to MSD's CD output for optimal spark energy delivery. No user interaction is required for its operation beyond proper installation.

6. MAINTENANCE

The MSD 42921 Powersports Ignition Coil is designed for durability and requires minimal maintenance. Consider

the following:

- **Regular Inspection:** Periodically inspect the coil and its connections for any signs of damage, corrosion, or loose wiring.
- **Cleaning:** Keep the coil free from excessive dirt, oil, and moisture. Clean with a dry cloth if necessary. Avoid using harsh chemicals.
- **Wiring Integrity:** Ensure all high-voltage wires and primary wires are in good condition and properly seated.
- **Environmental Protection:** While the internal windings are encased for protection, avoid exposing the coil to extreme temperatures or direct water spray for extended periods.

7. TROUBLESHOOTING

If you experience issues with your ignition system, consider these common troubleshooting steps related to the ignition coil:

Problem	Possible Cause	Solution
No Spark / Weak Spark	Loose or corroded connections	Check and secure all wiring connections.
	Faulty primary wiring	Inspect primary wiring for breaks or shorts.
	Damaged spark plug wire	Replace damaged spark plug wire.
	Coil failure	Test coil resistance (refer to MSD specifications if available). Replace if faulty.
	Issue with ignition control unit	Consult your ignition control unit's manual for troubleshooting.
Engine Misfire	Intermittent coil failure	Inspect coil for signs of overheating or damage.
	Poor grounding	Ensure the coil has a solid ground connection.
	Incorrect spark plug gap	Verify spark plug gap is set to manufacturer specifications.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional mechanic or contact MSD technical support.

8. SPECIFICATIONS

Feature	Detail
Brand	MSD
Model Number	42921
Product Type	Powersports Ignition Coil
Installation Type	Freestanding
Item Weight	0.01 Ounces (approx. 0.28 grams)
Design Feature	Isolated Ground
Compatibility	For use on Multi-Channel Ignitions
Internal Construction	Internal windings encased for protection
Output Matching	Higher turns ratio matches MSD's CD output

9. WARRANTY INFORMATION

Specific warranty details for the MSD 42921 Powersports Ignition Coil are not provided in this document. For warranty coverage, terms, and conditions, please refer to the official MSD website or contact MSD customer support directly. Retain your proof of purchase for warranty claims.




10. SUPPORT

For technical assistance, product inquiries, or further support regarding your MSD 42921 Powersports Ignition Coil, please contact MSD Ignition customer service. You can typically find contact information, including phone numbers and online support portals, on the official MSD website (www.msdpower.com).

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Related Documents - 42921

	<p>MSD Digital 6M-3L Marine Ignition Installation Instructions</p> <p>Comprehensive installation guide for the MSD Digital 6M-3L Marine Ignition (PN 6564), covering features, wiring, programming, troubleshooting, and technical notes for marine applications.</p>
	<p>MSD Digital 6A and 6AL Ignition Control Installation Instructions</p> <p>Comprehensive installation guide for MSD Digital 6A and 6AL Ignition Controls, covering wiring, operation, features, programming, and troubleshooting for automotive enthusiasts.</p>
	<p>MSD Digital 6 Plus Ignition Control Installation Instructions</p> <p>Comprehensive installation guide for the MSD Digital 6 Plus Ignition Control (PN 6520), covering operation, features, wiring, programming, troubleshooting, and compatibility with various vehicle systems. Includes detailed diagrams and technical specifications.</p>



[MSD 2014 Performance Spark Plug Catalog & Application Guide](#)

Explore the 2014 MSD Performance Spark Plug Catalog and Application Guide. This comprehensive resource details MSD's advanced spark plug technology, including features, benefits, installation guidance, and troubleshooting tips. It provides an extensive application list to help automotive enthusiasts and mechanics find the perfect MSD spark plugs for a wide range of vehicles, ensuring optimal engine performance and reliability.



[MSD Digital 6AL Ignition Control: REV Limiter Verification Guide](#)

Step-by-step guide to enabling and verifying the REV Limiter feature on the MSD Digital 6AL Ignition Control (PN 6425). Learn how to check your rev limit setting and important considerations for EFI systems.



[MSD 6EFI Universal EFI Ignition Box PN 6415 Installation Instructions](#)

Comprehensive installation guide for the MSD 6EFI Universal EFI Ignition Box (PN 6415), covering product registration, parts included, general information, wiring functions, mounting, rev limiter, timing control setup, distributor installation, troubleshooting, and compatibility with various EFI systems like Holley, FiTECH, Edelbrock, and Fast EZ-EFI.