

MSD MSD-8253

MSD 8253 Blaster HVC-2 Ignition Coil User Manual

Model: MSD-8253

INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the MSD 8253 Blaster HVC-2 Ignition Coil. Designed for high-performance racing applications, this coil delivers high voltage and current for optimal ignition performance. Please read this manual thoroughly before installation and use to ensure proper function and safety.

PRODUCT OVERVIEW

The MSD 8253 Blaster HVC-2 Ignition Coil is engineered to provide superior spark energy for demanding ignition systems, particularly those paired with 6-series ignition controls. Its robust design ensures reliability and consistent performance.

Key Features:

- Designed for racing applications with 6-series ignition.
- Features low resistance and an efficient winding design for maximum energy transfer.
- Delivers high voltage and current output for powerful spark.
- Housing molded from high dielectric Rynite material for durability and insulation.
- Includes vibration mounts for secure and stable installation.

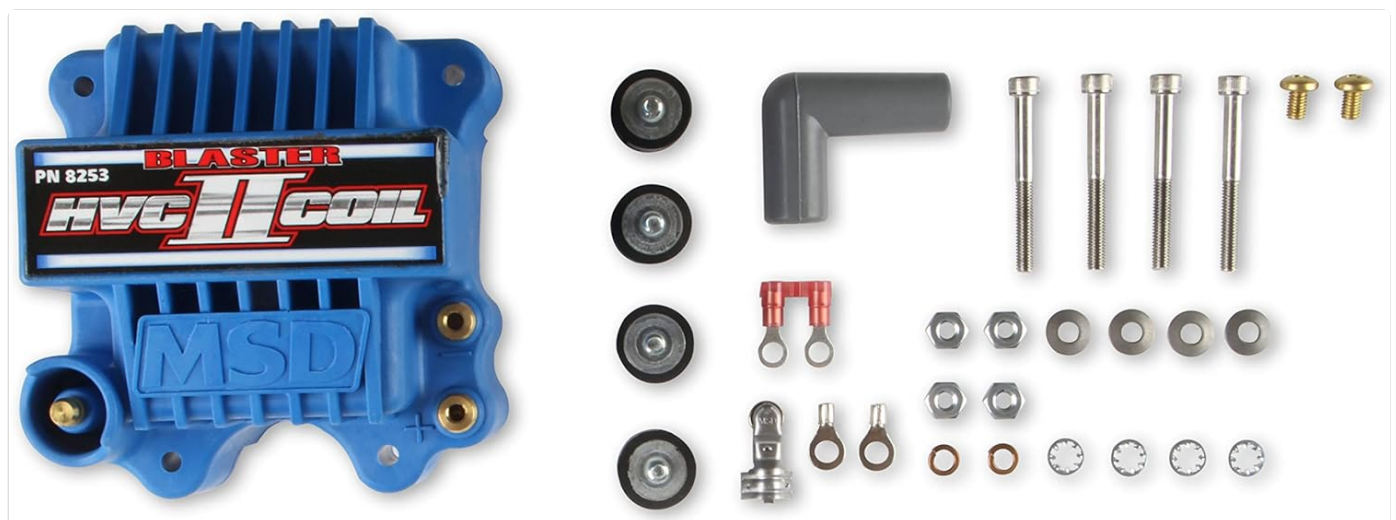


Figure 1: The MSD 8253 Blaster HVC-2 Ignition Coil shown with its complete set of installation hardware, including mounting bolts, nuts, washers, and vibration isolators.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The package should contain:

- 1 x MSD 8253 Blaster HVC-2 Ignition Coil
- 4 x Vibration Mounts
- Mounting Hardware (bolts, nuts, washers)
- High-tension terminal boot and crimp terminals



Figure 2: A comprehensive view of the MSD 8253 Blaster HVC-2 Ignition Coil alongside all its accompanying parts, including the high-tension terminal, mounting hardware, and vibration dampeners.

SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your MSD Blaster HVC-2 Ignition Coil. Always disconnect the vehicle's battery before beginning any electrical work.

Tools Required:

- Wrench set
- Screwdriver set
- Wire strippers/crimpers
- Multimeter (for testing, optional)

Mounting the Coil:

1. Select a mounting location that is cool, dry, and away from direct engine heat or excessive vibration. Ensure sufficient clearance for wiring and spark plug wire.
2. Use the provided vibration mounts to secure the coil. These mounts help absorb engine vibrations, protecting the coil's internal components.
3. The coil can be mounted using either the screw-in or bolt-on method, depending on your application and chosen

location.



Figure 3: A direct overhead view of the MSD 8253 Blaster HVC-2 Ignition Coil, highlighting the high-tension output terminal and the primary input terminals (+ and -).

Wiring Connections:

Refer to your specific ignition system's wiring diagram for precise connections. The Blaster HVC-2 coil is designed to work with MSD 6-series ignition controls.

- Connect the positive (+) terminal of the coil to the positive output of your MSD ignition control.
- Connect the negative (-) terminal of the coil to the negative output of your MSD ignition control.
- Ensure all connections are clean, secure, and properly insulated to prevent shorts.

- Install the high-tension spark plug wire from the coil's output tower to the distributor cap or appropriate ignition component.



Figure 4: A side profile of the MSD 8253 Blaster HVC-2 Ignition Coil, illustrating the robust housing and the integrated mounting points designed for secure installation with vibration dampeners.

OPERATING PRINCIPLES

The MSD Blaster HVC-2 Ignition Coil operates by transforming low voltage from the vehicle's electrical system into the high voltage required to create a spark across the spark plug gap. When paired with a compatible MSD ignition control, it delivers multiple sparks at lower RPMs and a powerful single spark at higher RPMs, ensuring complete combustion and improved engine performance.

This coil is designed for continuous high-output operation in demanding environments, making it suitable for racing and

high-performance street applications.

MAINTENANCE

The MSD 8253 Blaster HVC-2 Ignition Coil is designed for minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

- **Visual Inspection:** Regularly inspect the coil and its wiring for any signs of damage, corrosion, or loose connections. Ensure the high-tension spark plug wire is securely seated.
- **Cleanliness:** Keep the coil housing clean and free of dirt, oil, and moisture. Use a clean, dry cloth for wiping. Do not use harsh chemicals or solvents.
- **Mounting Security:** Periodically check that the coil is securely mounted and that the vibration mounts are intact and not deteriorated.

No internal user-serviceable parts are present. Do not attempt to disassemble the coil.



Figure 5: The underside of the MSD 8253 Blaster HVC-2 Ignition Coil, revealing its sealed construction which protects the internal components from environmental elements.

TROUBLESHOOTING

If you experience issues with your ignition system, consider the following troubleshooting steps before contacting support:

| Problem | Possible Cause | Solution |
|-----------------------|---|--|
| No Spark / Weak Spark | Loose or corroded wiring connections. Faulty spark plug wire. Incorrect wiring to ignition control. Coil failure (rare). | Check and secure all electrical connections. Inspect and replace spark plug wire if damaged. Verify wiring against ignition control diagram. Test coil resistance (refer to MSD specifications for values). |

| Problem | Possible Cause | Solution |
|----------------|--|--|
| Engine Misfire | Damaged spark plug wire. | Replace spark plug wire. |
| | Coil overheating due to poor mounting or location. | Ensure adequate airflow around the coil and proper mounting. |

For advanced diagnostics or issues not resolved by these steps, consult a qualified automotive technician or contact MSD technical support.

SPECIFICATIONS

| Attribute | Value |
|-------------------------------------|---|
| Brand | MSD |
| Model Name | MSD 8253 Blaster HVC-2 Ignition Coil |
| Part Number | MSD-8253 |
| OEM Part Number | 8253 |
| UPC | 085132082537 |
| Item Weight | 0.01 Ounces (Coil only, approximate) |
| Package Weight | 1.95 Kilograms |
| Item Package Dimensions (L x W x H) | 6.26 x 5.63 x 5 inches |
| Material | High dielectric Rynite (Housing) |
| Installation Type | Screw-In or Bolt-On |
| Connector Gender | Male |
| Vehicle Service Type | Car |
| Included Components | MSD 8253 Blaster HVC-2 Ignition Coil, Vibration Mounts, Mounting Hardware |

WARRANTY INFORMATION

MSD products are manufactured under strict quality control standards. The specific warranty period and terms for the MSD 8253 Blaster HVC-2 Ignition Coil are provided by the manufacturer. Please refer to the warranty documentation included with your purchase or visit the official MSD website for the most current warranty policy.
Note: Any unauthorized modification, improper installation, or misuse of the product may void the warranty.

SUPPORT AND CONTACT

For technical assistance, product inquiries, or warranty claims, please contact MSD customer support directly.
MSD Ignition

Official Website: www.holley.com/brands/msd/ (MSD is part of Holley Performance Products)
Contact information (phone/email) can typically be found on their official website's support section.

IMPORTANT SAFETY INFORMATION


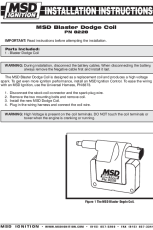



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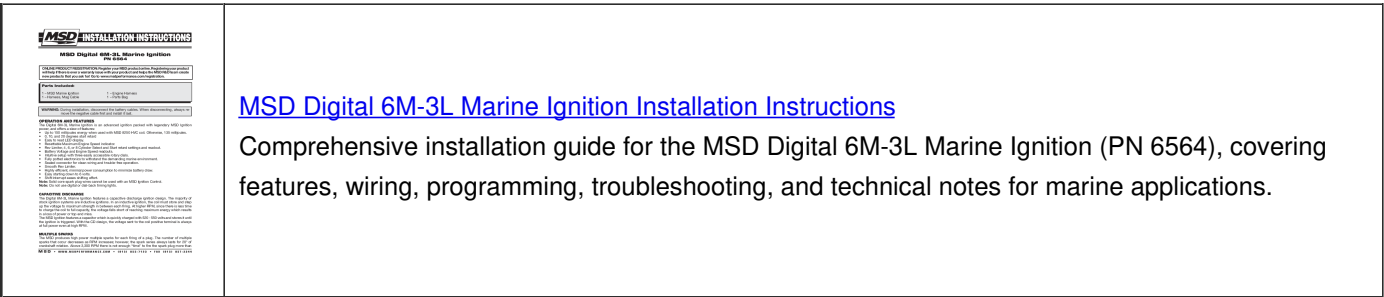
Always exercise caution when working with automotive electrical systems. High voltage components can cause severe injury or death. If you are unsure about any installation step, seek professional assistance.



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Related Documents - MSD-8253

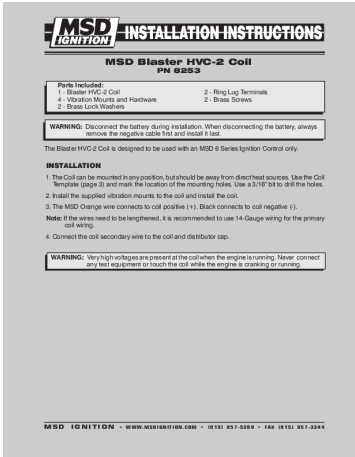
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|  | <p>MSD Ignition Wiring Diagrams and Technical Notes for Performance Automotive Systems</p> <p>MSD Ignition's comprehensive guide to wiring diagrams and technical notes for automotive performance. Learn about installation, component compatibility, and troubleshooting for MSD ignition systems.</p> |
|  | <p>MSD Blaster Dodge Coil PN 8228 Installation Instructions</p> <p>Detailed installation instructions for the MSD Blaster Dodge Coil (PN 8228), including parts included, safety warnings, step-by-step installation guide, wiring diagrams, service information, and limited warranty details from MSD Ignition.</p> |
|  | <p>Summit Racing SUM-850620/145MJ Digital CD Ignition Installation Manual</p> <p>Comprehensive installation manual for the Summit Racing SUM-850620/145MJ Street & Strip Digital CD Ignition System, covering wiring, mounting, troubleshooting, and compatibility for various vehicle applications.</p> |
|  | <p>MSD 2014 Performance Spark Plug Catalog & Application Guide</p> <p>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.</p> |
|  | <p>Bonelli 512 Multi-Slide Doors: Features, Specifications, and Configurations</p> <p>Comprehensive guide to Bonelli's 512 Multi-Slide Doors. This architectural design manual details features, glazing performance specifications, design data for stacking and pocketing configurations, detailed product descriptions, and unit section dimensions. Includes information on frame materials, finishes, hardware, and glass options.</p> |



[MSD Digital 6M-3L Marine Ignition Installation Instructions](#)

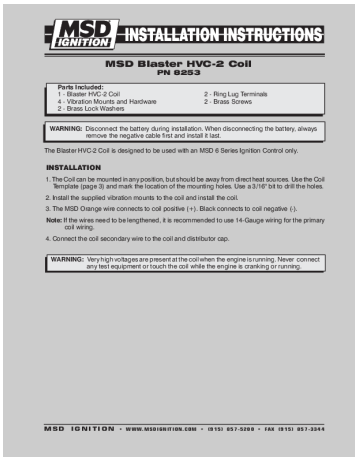
Comprehensive installation guide for the MSD Digital 6M-3L Marine Ignition (PN 6564), covering features, wiring, programming, troubleshooting, and technical notes for marine applications.

Documents - MSD – MSD-8253



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Warning: Disconnect the battery during installation. When disconnecting the battery, always remove the negative cable first and i...
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