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## MSD 8241

# MSD 8241 DIS 4 Tower Coil Pack Instruction Manual

Model: 8241

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MSD 8241 Blaster DIS Tower Coil Pack. This high-performance ignition coil is designed to enhance the ignition system of compatible vehicles, providing a strong and consistent spark.

### Key Features:

- Designed for use with late model Ford waste spark ignition systems.
- Features an 83:1 turns ratio and lower primary resistance for high voltage output.
- Secondary towers are designed for snap-on spark plug terminals.
- Primary terminals require a Ford style connector.
- CARB E.O. Approved for specific applications.

## 2. WHAT'S IN THE BOX

Upon opening the package, verify that all components are present and undamaged.

- One (1) MSD 8241 Blaster DIS Tower Coil Pack
- Installation hardware (if applicable, may include longer allen screws with riser standoffs, though not explicitly listed in product features)

## 3. SETUP & INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your MSD 8241 Coil Pack. If you are unsure about any step, consult a qualified automotive technician.

### Safety Precautions:

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure the engine is cool to the touch to prevent burns.
- Wear appropriate personal protective equipment, including gloves and eye protection.

### Installation Steps:

- 1. Locate the Existing Coil Pack:** Identify the current ignition coil pack on your vehicle. The MSD 8241 is designed as a direct fit replacement for late model Ford waste spark ignition systems.
- 2. Disconnect Wiring:** Carefully disconnect the primary electrical connector from the existing coil pack. Note that the primary terminals on the MSD 8241 require a Ford style connector.
- 3. Remove Spark Plug Wires:** Detach the spark plug wires from the secondary towers of the old coil pack. Note the routing of each wire to ensure correct reinstallation.
- 4. Unmount Old Coil Pack:** Remove the bolts or fasteners securing the old coil pack to its mounting bracket. The MSD 8241 is a bolt-on installation type.
- 5. Mount New Coil Pack:** Position the MSD 8241 Blaster DIS Tower Coil Pack in the same location. Secure it using the appropriate bolts. Some applications may require the included longer allen screws with riser standoffs for proper fitment, especially if mounted over a valve cover.
- 6. Connect Spark Plug Wires:** Connect the spark plug wires to the secondary towers of the new MSD 8241 coil pack. The secondary towers are designed for snap-on spark plug terminals, ensuring a secure connection. Ensure each wire is connected to its correct cylinder.
- 7. Connect Primary Wiring:** Reconnect the primary electrical connector to the new coil pack. Ensure it clicks securely into place.
- 8. Reconnect Battery:** Reconnect the vehicle's battery.
- 9. Test System:** Start the engine and check for proper operation. Listen for any unusual noises or signs of misfire.



**Figure 1:** Top-front view of the MSD 8241 DIS 4 Tower Coil Pack, showing the red housing, black coil towers, and electrical connector.



**Figure 2:** Top-rear view of the MSD 8241 DIS 4 Tower Coil Pack, highlighting the four coil towers and the MSD logo on the red casing.



Figure 3: Bottom view of the MSD 8241 DIS 4 Tower Coil Pack, showing the underside of the coil and the electrical connector.

## 4. OPERATION

The MSD 8241 Blaster DIS Tower Coil Pack functions as a critical component of your vehicle's ignition system. It receives a low-voltage signal from the engine control unit (ECU) and transforms it into a high-voltage pulse. This high-voltage pulse is then sent through the spark plug wires to the spark plugs, creating a powerful spark that ignites the air-fuel mixture in the engine's cylinders. Once installed, the coil pack operates automatically as part of the engine's normal function. No user intervention is required for its operation. The advanced design ensures a consistent and strong spark, contributing to improved combustion efficiency.

## 5. MAINTENANCE

The MSD 8241 Blaster DIS Tower Coil Pack is designed for durability and requires minimal maintenance. However, periodic inspection can help ensure its optimal performance.

- **Visual Inspection:** Periodically check the coil pack for any signs of physical damage, cracks, or corrosion on the terminals.
- **Wiring Connections:** Ensure all electrical connectors and spark plug wires are securely attached and free from corrosion. Loose connections can lead to intermittent performance issues.
- **Cleanliness:** Keep the coil pack free from excessive dirt, oil, and debris. A clean, dry cloth can be used for wiping the exterior.
- **Spark Plug Wires:** Regularly inspect spark plug wires for wear, fraying, or damage, as faulty wires can impact coil performance.

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

## 6. TROUBLESHOOTING

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If you experience issues with your vehicle's ignition system after installing the MSD 8241 Coil Pack, consider the following troubleshooting steps:

- **Engine Misfire or Rough Idle:**
  - Check all spark plug wire connections to ensure they are fully seated on the coil towers and spark plugs.
  - Inspect spark plug wires for damage or improper routing.
  - Verify the primary electrical connector is securely attached to the coil pack.
  - Ensure spark plugs are in good condition and correctly gapped.
- **No Start Condition:**
  - Confirm the battery is fully charged and connections are clean and tight.
  - Check all wiring to the coil pack for continuity and proper connection.
  - Verify that the coil pack is receiving power from the vehicle's electrical system.
- **Check Engine Light (CEL):**
  - If a CEL illuminates, retrieve diagnostic trouble codes (DTCs) using an OBD-II scanner. These codes can help pinpoint the specific issue.
  - Common codes related to ignition coils include P030x (misfire in cylinder x) or P035x (ignition coil primary/secondary circuit malfunction).

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive technician for diagnosis and repair.

## 7. SPECIFICATIONS

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<b>Model Name</b>	MSD 8241 Blaster DIS Tower Coil Pack
<b>Part Number</b>	MSD-8241
<b>Brand</b>	MSD
<b>Installation Type</b>	Bolt-On
<b>Connector Gender</b>	Male-to-Female
<b>Item Weight</b>	730 Grams (approx. 1.6 lbs)

<b>Package Weight</b>	2.25 Pounds
<b>Item Package Dimensions (L x W x H)</b>	7.5 x 4.6 x 3.9 inches
<b>Material</b>	Plastic
<b>Vehicle Service Type</b>	Car
<b>UPC</b>	085132082414
<b>OEM Part Number</b>	8241

## 8. WARRANTY INFORMATION

The MSD 8241 Blaster DIS Tower Coil Pack comes with a manufacturer's warranty. For specific details regarding the warranty period, coverage, and claims process, please refer to the warranty documentation included with your product or visit the official MSD website. Keep your proof of purchase for warranty purposes.

## 9. SUPPORT & CONTACT

For technical assistance, installation questions, or warranty inquiries, please contact MSD customer support.

- **Manufacturer:** MSD
- **Website:** [www.msdperformance.com](http://www.msdperformance.com)
- **Professional Assistance:** If you are uncomfortable performing any installation or troubleshooting steps, it is recommended to seek assistance from a certified automotive professional.

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