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Model: 3003

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Daytona Twin Tec Spark Plug Wires, Model 3003. These universal spark plug wires are designed for various applications, featuring an 8.5mm outer sleeve and a spiral core for optimal performance. Proper installation is crucial for reliable engine operation.

COMPONENTS

The Daytona Twin Tec Spark Plug Wire set, Model 3003, includes the following components:

- **8.5mm Outer Sleeve Wire:** High-quality wire with an 8.5mm diameter outer insulation for durability and protection.
- **Spiral Core:** Designed for excellent RFI suppression and maximum spark energy delivery.
- **90° Spark Plug Boots:** Angled boots for spark plug connections, suitable for various engine configurations.
- **115° Spark Plug Boots:** Alternative angled boots for spark plug connections, offering flexibility in routing.
- **Assorted Coil Boots and Terminals:** Various boots and terminals to connect the wires to different ignition coils.



Image: Overview of Daytona Twin Tec Spark Plug Wires 3003 components. This image displays the various parts included in the kit, such as the bulk wire, different angled spark plug boots, and coil terminals, ready for custom assembly.

SETUP AND INSTALLATION

The Daytona Twin Tec Spark Plug Wires are universal and require custom assembly. Follow these steps carefully for proper installation.

1. Preparation:

- Ensure the engine is cool and the ignition is off.
- Gather necessary tools: wire cutters, wire strippers, crimping tool, dielectric grease (optional).
- Identify the firing order and cylinder numbering for your specific vehicle.

2. Measure and Cut Wires:

- Remove one old spark plug wire at a time to use as a template for length.
- Measure the new wire against the old one, ensuring a slight allowance for the terminals and boots.
- Cut the new wire to the appropriate length using sharp wire cutters to ensure a clean cut.

3. Prepare Wire Ends:

- Strip approximately 1/2 inch (12-15mm) of the outer insulation from both ends of the cut wire, exposing the spiral core. Be careful not to damage the core.

4. Attach Spark Plug Boots and Terminals:

- Slide the chosen spark plug boot (90° or 115°) onto one end of the wire, ensuring the narrow end faces the stripped wire.
- Insert the spark plug terminal onto the stripped wire end.
- Crimp the terminal securely onto the wire using a crimping tool. Ensure a tight electrical and mechanical connection.
- Pull the boot over the terminal until it seats firmly. A small amount of dielectric grease can be applied inside the boot for easier installation and moisture protection.

5. Attach Coil Boots and Terminals:

- Repeat the process for the coil end of the wire, selecting the appropriate coil boot and terminal from the assorted kit.
- Ensure the coil boot and terminal are compatible with your vehicle's ignition coil.
- Crimp the terminal and seat the boot as described for the spark plug end.

6. Install Wires:

- Connect the assembled spark plug wires to the corresponding spark plugs and ignition coil terminals, following the correct firing order.
- Ensure all connections are firm and fully seated.

7. Secure Wires:

- Route the wires away from hot engine components, moving parts, and sharp edges.
- Use wire separators or ties (not included) to keep the wires organized and prevent contact with other components, which can cause damage or cross-firing.

After installation, double-check all connections and ensure no wires are pinched or routed improperly before starting the engine.

OPERATION

Once properly installed, the Daytona Twin Tec Spark Plug Wires operate passively as part of your vehicle's ignition system. Their primary function is to reliably transfer high voltage from the ignition coil to the spark plugs. No specific user operation is required beyond ensuring correct installation and routing.

Important Considerations:

- **Proper Routing:** Always ensure wires are routed away from extreme heat sources (exhaust manifolds), sharp edges, and moving engine components (belts, fans). Improper routing can lead to premature wear, short circuits, or misfires.
- **Secure Connections:** Verify that all boots are fully seated on both the spark plugs and the coil to prevent moisture ingress and ensure optimal electrical contact.

MAINTENANCE

Regular inspection and basic maintenance can extend the life and ensure the performance of your spark plug wires.

- **Visual Inspection:** Periodically inspect the wires for signs of wear, cracks, abrasions, or discoloration. Pay close attention to areas where wires might rub against other components.
- **Boot Condition:** Check the spark plug and coil boots for cracks, tears, or signs of arcing (burn marks). Ensure they are securely seated.
- **Cleanliness:** Keep the wires and boots clean and free from oil, grease, and dirt, which can degrade insulation and

lead to electrical issues. Use a clean cloth to wipe them down.

- **Connection Integrity:** Ensure all terminals are firmly seated and not corroded. If removing wires for other maintenance, always grasp the boot, not the wire, to prevent damage.

TROUBLESHOOTING

If you experience engine performance issues after installing new spark plug wires, consider the following troubleshooting steps:

- **Misfires or Rough Idling:**
 - Verify correct firing order. An incorrect firing order is a common cause of misfires.
 - Check for loose connections at both the spark plug and coil ends.
 - Inspect wires for cuts, abrasions, or signs of arcing (spark jumping from the wire to ground).
 - Ensure the terminals are properly crimped and making good contact with the wire core.
- **Engine Hesitation or Loss of Power:**
 - Check for proper routing to prevent wires from being pinched or damaged.
 - Ensure wires are not routed too close to each other, which can cause inductive cross-firing.
- **Radio Frequency Interference (RFI):**
 - While these wires feature a spiral core for RFI suppression, excessive interference might indicate a damaged wire or improper grounding elsewhere in the ignition system.

If troubleshooting does not resolve the issue, it is recommended to consult a qualified mechanic or contact Daytona Twin Tec customer support.

SPECIFICATIONS

Brand:	Daytona Twin Tec
Model Number:	3003 (Manufacturer Part Number)
Wire Diameter:	8.5mm Outer Sleeve
Core Type:	Spiral Core
Spark Plug Boot Angles:	90° and 115° (included)
Application:	Universal (except Twin-Cam)
Item Weight:	0.74 Pounds (approx.)

WARRANTY INFORMATION

Warranty coverage for Daytona Twin Tec products, including Model 3003 Spark Plug Wires, is typically provided by the manufacturer. Please refer to the original product packaging or the official Daytona Twin Tec website for specific warranty terms, conditions, and registration procedures. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, installation questions, or any other inquiries regarding your Daytona Twin Tec Spark Plug Wires, Model 3003, please contact Daytona Twin Tec directly. Contact information can usually be found on their official website

or product packaging.

Note: Always consult a qualified professional for complex installations or if you are unsure about any steps.

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