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Pertronix D7130801

Pertronix D7130801 Flame-Thrower Billet Electronic Distributor with Ignitor III Technology User Manual

Model: D7130801

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Pertronix D7130801 Flame-Thrower Billet Electronic Distributor with Ignitor III Technology. This unit is designed for Ford Small Block engines, offering enhanced ignition performance. Please read all instructions carefully before proceeding with installation or operation.

Safety Precautions

- Always disconnect the vehicle's battery before working on the ignition system.
- Ensure the engine is cool before handling components.
- Wear appropriate safety gear, including eye protection and gloves.
- Consult a qualified mechanic if you are unsure about any installation steps.

Setup and Installation

The Pertronix D7130801 distributor is designed for a straightforward "Plug n' Play" installation. It replaces outdated points, electronic distributors, or bulky HEI systems.

Components Included:

- Pertronix Flame-Thrower Billet Distributor with Ignitor III Module
- Installation hardware (if applicable)

Installation Steps:

1. **Preparation:**
    - Disconnect the negative terminal of the vehicle's battery.
    - Mark the position of the rotor and the distributor housing relative to the engine block to ensure correct timing upon reinstallation.
    - Label all spark plug wires to ensure they are reconnected to the correct cylinder.

2. **Removal of Old Distributor:**
    - Remove the spark plug wires and distributor cap.
    - Disconnect any electrical connections to the old distributor.
    - Loosen the distributor hold-down clamp and carefully remove the old distributor from the engine.
3. **Installation of New Distributor:**
    - Ensure the engine is at Top Dead Center (TDC) on the compression stroke for cylinder #1.
    - Align the new Pertronix D7130801 distributor with the marks made during removal. The rotor should point to the #1 cylinder's spark plug wire terminal on the cap.
    - Carefully insert the distributor into the engine block, ensuring the gear meshes correctly with the camshaft gear. It may be necessary to slightly rotate the rotor to engage the gears.
    - Once seated, secure the distributor with the hold-down clamp, but do not fully tighten yet to allow for timing adjustments.
4. **Wiring Connections:**
    - The Ignitor III module requires only two wire connections:
        a. Connect the **red wire** from the Ignitor III module to a switched 12-volt power source. This source must provide a full 12 volts during both cranking and running. Do not use a ballast resistor or resistance wire.
        b. Connect the **black wire** from the Ignitor III module to the negative (-) terminal of the ignition coil.
    - Ensure all connections are secure and free from corrosion.
5. **Final Assembly:**
    - Install the distributor cap and reconnect the spark plug wires according to the firing order.
    - Reconnect the negative battery terminal.



Image: Pertronix D7130801 Flame-Thrower Billet Electronic Distributor. This image shows the complete distributor unit with its red cap, ready for installation.



Image: Pertronix Flame-Thrower Billet Distributor. This image displays the distributor unit removed from its packaging, highlighting its billet aluminum housing and shaft.

Operating Instructions

The Ignitor III module provides multi-spark discharge and a rev-limiting function for optimal engine performance.

Initial Start-up and Timing:

1. After installation, start the engine. It may run rough initially.
2. Using a timing light, adjust the distributor's rotational position until the engine's timing specifications are met. Refer to your vehicle's service manual for the correct timing.
3. Once the timing is set, tighten the distributor hold-down clamp securely.

Adjustable Mechanical Advance:

The D7130801 features an adjustable mechanical advance with a proprietary limiting function. It is factory-set with a performance advance curve and includes additional springs for custom advance settings. Adjustments should only be made by experienced individuals with proper tuning equipment.

Coil Compatibility:

For optimal performance, consider pairing this distributor with a compatible Pertronix Flame-Thrower III coil. These coils are designed to increase spark energy and support higher RPM potential.



Image: Pertronix Flame-Thrower Ignition Coil. This image shows a black canister-style ignition coil, recommended for use with Pertronix distributors for enhanced performance.



Image: Pertronix Flame-Thrower II Ignition Coil. This image displays a chrome canister-style ignition coil, another compatible option for improved spark energy.

Maintenance

The Pertronix D7130801 distributor is designed for minimal maintenance. However, regular checks can ensure its longevity and optimal performance.

- **Distributor Cap and Rotor:** Periodically inspect the distributor cap and rotor for cracks, carbon tracking, or excessive wear. Replace if necessary.
- **Spark Plug Wires:** Check spark plug wires for damage, fraying, or poor connections. Ensure they are properly routed and securely attached.
- **Electrical Connections:** Verify that all electrical connections to the distributor and coil are clean, tight, and free from corrosion.
- **General Cleanliness:** Keep the distributor and surrounding engine area clean to prevent debris from affecting performance.

Troubleshooting

If you encounter issues with your Pertronix D7130801 distributor, refer to the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Engine cranks but does not start	• No 12V power to red wire • Incorrect wiring • Faulty coil • Incorrect timing	• Verify 12V at red wire during cranking and running. • Double-check all wiring connections. • Test ignition coil for proper resistance and function. • Re-check engine timing.
Rough idle or misfire	• Incorrect timing • Worn spark plugs or wires • Distributor cap/rotor wear	• Adjust engine timing. • Inspect and replace spark plugs and wires if needed. • Inspect and replace distributor cap and rotor.
Engine cuts out at high RPM	• Ignitor III rev limiter engaged • Insufficient power supply	• This may be normal operation if exceeding set rev limit. • Ensure consistent 12V power to the red wire.

If problems persist after following these steps, contact Pertronix technical support or consult a professional automotive technician.

Specifications

Feature	Detail
Model Number	D7130801
Application	Ford Small Block Engines
Ignition Technology	Ignitor III Multi-Spark, Rev Limiting Module
Housing Material	Precision CNC machined 6061-T6 billet aluminum
Advance Mechanism	Adjustable mechanical advance with proprietary limiting function
Cap Color	Red
Item Weight	5.8 pounds
Product Dimensions	16.75 x 7 x 5.5 inches

Warranty and Support

Pertronix products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your product or visit the official Pertronix website.

For technical assistance, installation questions, or troubleshooting support, please contact Pertronix customer service:

- **Website:** www.pertronixbrands.com
- **Contact Information:** Refer to the website for current contact methods (phone, email).

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