

Pertronix D134600

PerTronix Flame-Thrower Electronic Ignition Distributor User Manual

Model: **D134600** | Brand: **Pertronix**

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your PerTronix Flame-Thrower Electronic Ignition Distributor (Model D134600). This distributor is designed to provide enhanced ignition performance for compatible Ford Small Block engines, featuring integrated Ignitor electronic ignition technology for improved reliability and power.

Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's battery before performing any electrical work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the engine is cool before working on ignition components.
- Keep ignition components away from flammable materials.
- Consult a qualified mechanic if you are unsure about any installation steps.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- PerTronix Flame-Thrower Electronic Ignition Distributor (Model D134600)
- Distributor Cap
- Rotor
- Installation Instructions (this manual)



Image: PerTronix Flame-Thrower Electronic Ignition Distributor with cap, rotor, and wiring visible.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Follow these steps carefully:

1. Preparation:

- Disconnect the negative battery cable.
- Mark the position of the rotor on the old distributor relative to the distributor body, and the position of the distributor body relative to the engine block. This will help with re-timing.
- Label all spark plug wires before removal.

2. Old Distributor Removal:

- Remove the distributor cap and spark plug wires.
- Disconnect any electrical connections to the old distributor.
- Loosen the distributor hold-down clamp and carefully lift the old distributor out of the engine block. Note the rotation of the rotor as it comes out.

3. New Distributor Installation:

- Ensure the engine is at Top Dead Center (TDC) on the compression stroke for cylinder #1.
- Align the new PerTronix distributor's gear with the camshaft gear. The rotor should point to the #1 spark plug terminal on the cap when fully seated. You may need to slightly rotate the rotor or the oil pump drive shaft to engage the gears.
- Once seated, ensure the distributor body is oriented correctly as marked during removal.
- Secure the distributor with the hold-down clamp, but do not fully tighten yet to allow for timing adjustments.

4. Wiring Connections:

- The PerTronix Ignitor module has two wires: a red wire and a black wire.
- Connect the **red wire** to a switched 12-volt power source that is active when the ignition is in the "ON" and "START" positions. This must be a full 12V source, not a resisted wire.
- Connect the **black wire** to the negative (-) terminal of the ignition coil.
- Ensure all connections are clean and secure.

5. Final Assembly and Timing:

- Install the new distributor cap and reattach the spark plug wires in the correct firing order.
- Reconnect the negative battery cable.
- Start the engine and use a timing light to set the ignition timing according to your vehicle's specifications.
- Once timing is set, fully tighten the distributor hold-down clamp.



Image: Examples of Flame-Thrower distributors, illustrating the "Stock Look" and "Billet Plug n' Play" designs. The D134600 is a "Stock Look" model.

5. OPERATING INSTRUCTIONS

The PerTronix Flame-Thrower Electronic Ignition Distributor operates automatically once installed and timed correctly. It replaces traditional points and condenser systems with a maintenance-free electronic module.

- The integrated Ignitor system delivers a consistent, high-energy spark to the spark plugs, improving combustion efficiency.
- The precision timing control ensures stable engine performance across all RPM ranges.
- No adjustments are required for the electronic ignition system itself after initial timing.

6. MAINTENANCE

The PerTronix Flame-Thrower Electronic Ignition Distributor is designed for minimal maintenance. Unlike traditional points systems, there are no points to adjust or replace.

- **Regular Inspection:** Periodically inspect the distributor cap and rotor for cracks, carbon tracking, or excessive wear. Replace if necessary.
- **Wiring:** Check all electrical connections for tightness and corrosion. Ensure wiring is routed away from hot or moving engine components.
- **Cleaning:** Keep the exterior of the distributor clean and free from oil, grease, and dirt. Use a clean, dry cloth.

- **Spark Plugs & Wires:** For optimal performance, ensure your spark plugs and spark plug wires are in good condition and are compatible with electronic ignition systems.

7. TROUBLESHOOTING

If you experience issues with your ignition system, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine cranks but won't start	No 12V power to red wire; faulty coil; incorrect wiring; incorrect timing.	Verify 12V at red wire during crank/run; check coil resistance; re-check wiring per Section 4; verify timing.
Engine misfires or runs rough	Incorrect timing; worn spark plugs/wires; faulty cap/rotor; vacuum leak.	Re-check and adjust timing; inspect and replace spark plugs/wires; inspect and replace cap/rotor; check for vacuum leaks.
Poor acceleration or power	Incorrect timing; advance curve issue (unlikely with new unit); fuel delivery issue.	Verify timing is set to vehicle specifications; ensure proper fuel pressure and delivery.
Distributor gear wear	Incompatible camshaft material; improper installation depth.	Ensure distributor gear material is compatible with camshaft (e.g., steel gear for steel cam, cast iron for cast iron cam); verify correct installation depth (refer to Ford specifications for 4.031"-4.038" measurement).

If problems persist after troubleshooting, contact PerTronix technical support.

8. SPECIFICATIONS

Feature	Detail
Model Number	D134600
Brand	PerTronix
Compatibility	Ford Small Block engines (pre-1974 recommended)
Ignition Type	Electronic (Ignitor Technology)
Housing Material	Lightweight Cast Aluminum
Cap Type	Black, High Dielectric Strength with Brass Terminals
Advance Mechanism	Vacuum Advance (with custom-designed advance curve)
Dimensions (L x W x H)	17 x 6 x 5.5 inches
Item Weight	3.4 pounds
UPC	694342535964

9. WARRANTY AND SUPPORT

PerTronix products are manufactured to high standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official PerTronix website.

For technical support, installation assistance, or warranty claims, please contact PerTronix customer service:

- **Website:** www.pertronix.com
- **Phone:** Refer to the website for current contact numbers.
- When contacting support, please have your product model number (D134600) and purchase information ready.

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