

For Part Numbers:					
D176600	D176609	D176628	D176629	D177600	D177628
D174118	D174119	D174128	D174129		
Recommended Flame-Thrower & HV Coils:					
Application	Primary resistance	Chrome	Black	Epoxy	
Ignitor Only	3.0 ohm	40501	40511	40611	
Ignitor Only	3.0 ohm	E-Core HV Coil		60130	
NOTE: REMOVE OR BYPASS EXTERNAL BALLAST RESISTOR OR RESISTANCE WIRE WHEN INSTALLING THE RECOMMENDED FLAME-THROWER OR HV E-CORE COIL.					



IGNITOR
ELECTRONIC IGNITION

**DISTRIBUTOR INSTALLATION
INSTRUCTIONS FOR:
BRITISH DISTRIBUTORS**

GENERAL INFORMATION

1. **IMPORTANT:** Read all instructions before starting installation.
2. For **12-volt negative ground** systems only.
3. New spark plug wires may be required.
4. Solid core spark plug wires **MUST NOT** be used.

DISTRIBUTOR REMOVAL

1. Crank the engine until the first cylinder in the firing order is at TDC "Top Dead Center" on its compression stroke. The timing indicator should point to TDC or 0.
2. Remove the distributor cap, and make sure that the rotor is pointing towards the contact on the distributor cap for the first cylinder in the firing order.
3. Disconnect the battery cable.
4. Disconnect all wires and hoses attached to the distributor.
5. Remove the distributor hold down bolt.
6. Remove the distributor from the engine.
7. Check the distributor drive for signs of excess wear, or potential problems.

DISTRIBUTOR INSTALLATION

Note: Original hold down clamp must be used with new *Flame-Thrower* distributor. Hold down bracket must be free of paint and corrosion, this will insure that a proper ground is made to the engine block.

1. Remove the *Flame-Thrower* distributor cap.
2. Turn the shaft so that when the distributor is placed into the engine, the rotor position matches that of the original distributor.
3. Press the distributor down into the engine block. Make sure that the drive dog lines up and is engaged fully. Misalignment can cause permanent damage to the engine as well as the distributor.
4. Place the distributor cap onto the housing.
5. Turn the distributor housing so that the terminal that represents the first cylinder in the firing order, lines up with the rotor contact terminal.
6. Tighten the distributor clamp and hold down bolts to the engine.
7. Clip the cap into place and install the spark plug wires in the proper firing order.

8. For Vacuum advance distributors:

Locate the vacuum hose that was previously attached to the vacuum advance canister. This hose should originate at a ported vacuum source. Some applications have vacuum advance hoses attached to a manifold vacuum source, due to the performance advance curve, we recommend that you relocate this hose

LIMITED WARRANTY

PerTronix, Inc. warrants to the original Purchaser of its Flame-Thrower billet distributor that the product shall be free from defects in material and workmanship (normal wear and tear excluded) for a period of 12 months from the date of purchase.

If within the period of the foregoing warranty PerTronix finds, after inspection, that the product or any component thereof is defective, PerTronix will, at its option, repair such products or component or replace them with identical or similar parts PROVIDED that within such period Purchaser:

1. Promptly notifies PerTronix, in writing, of such defects.
2. Delivers the defective product or component to PerTronix (Attn: Warranty) with proof of purchase date; and
3. Has installed and used the product in a normal and proper manner, consistent with PerTronix printed instructions

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THE FURNISHING OF A REPAIR OR REPLACEMENT COMPONENT OR COMPONENTS SHALL CONSTITUTE THE SOLE REMEDY OF PURCHASER AND THE SOLE LIABILITY OF PerTronix WHETHER ON WARRANTY, CONTRACT OR FOR NEGLIGENCE, AND IN NO EVENT WILL PerTronix BE LIABLE FOR MONEY DAMAGES WHETHER DIRECT OR CONSEQUENTIAL.



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to a ported vacuum source. After setting initial timing the hose will be unplugged and attached to the vacuum advance on the distributor.

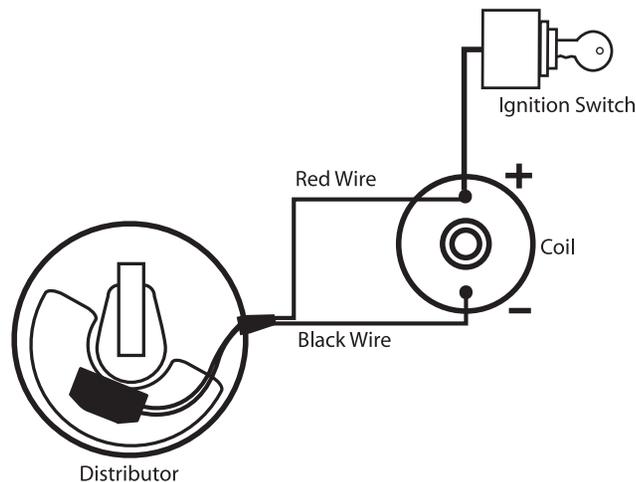
For Non-vacuum advance distributors:

Locate the vacuum hose that was previously attached to the vacuum advance canister. Remove the vacuum hose and plug the vacuum port.

WIRING

The *Flame-Thrower* distributor can be used in conjunction with most Ignition coils rated at 3.0 ohms or greater. For optimum performance purchase and install a 3.0 ohm *Flame-Thrower* or 3.0 ohm HV high performance coil.

1. Many vehicles came equipped with ballast resistors or resistance wires. To achieve optimum performance we recommended removal of these components.
2. Determine the proper wire length, and attach the provided terminals. (Use a designated wire crimping tool to achieve an adequate connection)
3. Attach the **Red** wire to the coil positive terminal or a 12-volt ignition source. **Note:** Original ignition wire must be connected to the (+) positive side of the Ignition coil.
4. Attach the **Black** wire to the coil negative terminal.
5. Check to insure correct polarity and that all connections are tight.
6. Reconnect the battery negative cable.



FINAL ADJUSTMENTS

1. Start the engine and set the initial timing.
2. Tighten the distributor hold down clamp.
3. For vacuum advance distributors, connect the vacuum hose to the vacuum advance canister.

COMMON QUESTIONS AND ANSWERS

- Q. The engine will not start or runs rough. What is the problem?
- A. Check all connections to insure that they are tight, and in the proper location. Make sure that the red wire from the *Flame-Thrower* distributor is supplied with a full 12 volts. The *Flame-Thrower* distributor uses Ignitor II technology and is designed to sense high current levels, and shut off before damage occurs. Check all wires for shorts, correct polarity and that the ignition coil's primary resistance level is acceptable.
- Q. The vehicle will start, but then die. After waiting it will start again. What is wrong?
- A. Check for a "Low Voltage Problem." If the voltage supplied to the *Flame-Thrower* distributor red wire is insufficient, the system may run for a period of time, and then shut down as the voltage drops due to engine heat. The period may vary from minutes to hours depending on available voltage and wiring condition.
- Q. How do I check for a "Low Voltage Problem" or determine if I am getting adequate voltage?
- A. To quickly test for a "Low Voltage Problem" or for adequate voltage, remove the *Flame-Thrower* distributor red wire from the coil positive terminal. Attach a jumper wire from the battery positive terminal to the distributor red wire. Try to start the vehicle. If the vehicle starts, low voltage is the problem.
- Q. How do I check my coil for primary resistance?
- A. Remove all wires from the coil. Set the ohmmeter to the lowest scale. Attach one lead of the meter to the positive coil terminal. Attach the other lead to the negative coil terminal. The *Flame-Thrower* distributor is compatible with coils having a resistance of 3.0 ohms or greater. See chart for compatible *Flame-Thrower* coils.
- Q. May I modify the length of the wires?
- A. Yes, you may cut the wires to any length your application requires. You may also add lengths of wire if needed (20-gauge). Make sure that all wire splices are clean and the connections are tight.
- Q. Will the *Flame-Thrower* distributor work with aftermarket capacitive discharge boxes?
- A. Yes, the *Flame-Thrower* distributor is compatible with most CD boxes in the same respect as points. Use the CD box wiring instructions for point systems and treat the Ignitor II black wire as a point wire. The *Flame-Thrower* red wire should be attached to the 12-volt power source.
- Q. How can I receive additional help?
- A. Check our web site for current trouble shooting tips and up to date technical information. Log on to www.pertronix.com. You may also contact our tech line at (909-547-9058)