

11. For installations that do not use a primary ballast resistor, connect the red Ignitor wire to the positive (+) side of the ignition coil (See Figure 2).
12. For installations that use a primary ballast resistor, connect the red Ignitor wire to the ignition switch side of the resistor (See Figure 3).
13. The engine can now be started. Let the engine run for a few minutes and then set the timing in the conventional manner.

FIGURE 3  
WIRING DIAGRAM  
IGNITOR SYSTEM  
WITH BALLAST RESISTOR

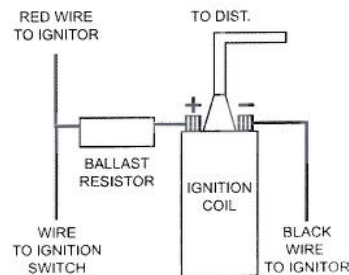


FIGURE 2  
WIRING DIAGRAM  
IGNITOR SYSTEM  
WITHOUT BALLAST RESISTOR

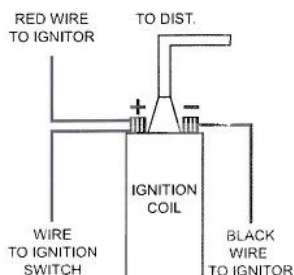
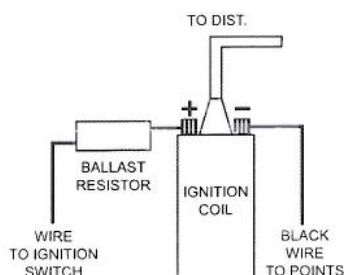


FIGURE 1  
WIRING DIAGRAM  
CONVENTIONAL POINTS SYSTEM  
WITH BALLAST RESISTOR



NOTE: A RESISTOR WIRE OR BALLAST RESISTOR MAY OR MAY NOT BE INCLUDED IN THE ORIGINAL EQUIPMENT.

## Ignitor™ COMMON QUESTIONS AND ANSWERS

- Q What is the first thing I should check if the engine would not start?
- A Make certain all wires are connected securely to the proper terminals.
- Q The engine will not start or runs rough. Are there any tests I can do?
- A Yes, remove the red Ignitor™ wire from the coil. Connect a jumper wire from the positive side of the battery to the red Ignitor™ wire just removed from the coil. If the engine starts, then you have a low voltage problem (This is a very common problem). Remember this is just a test. Not intended for permanent installation.
- Q How can I fix a low voltage problem?
- A First, if you have an external ballast resistor, connect the red Ignitor™ wire to the ignition wire prior to the ballast resistor. Second, if you do not have a ballast resistor you must connect the red Ignitor™ wire to a 12-volt source that is controlled by the ignition switch.
- Q What type of coil do I need?
- A The Ignitor™ is compatible only with a "points style" coil. Six & eight cylinder engines require a minimum of 1.5 ohms of resistance in the primary circuit. Four cylinder engines require a minimum of 3.0 ohms of resistance.
- Q How do I check my coil for resistance?
- A First you need an ohmmeter. Remove all the wires from the coil. Attach the meter to both the positive and negative terminals. The reading should be 1.5 ohms or greater for six and eight cylinder engines, and 3.0 ohms or greater for four cylinder engines. (Your local auto parts store can do this for you if you not have an ohmmeter)
- Q What do I do if my coil does not have enough resistance?
- A You may purchase and install a ballast resistor from your local auto parts store. You may also choose to purchase a Flame-Thrower™ 40,000-volt coil, which provides resistance internally. Note: Many vehicles come with a resistor wire or a ballast resistor. These applications do not need an additional resistor.
- Q What happens if I leave the ignition switch on when the engine is not running?
- A This can cause you coil to overheat, which may cause permanent damage to the coil and the Ignitor™.
- Q May I modify the length of the Ignitor™ wires?
- A Yes, you may cut the wires to any length your application may require. You may also add lengths of wire if needed (20-gauge wire). Please make sure all wire splice are clean and connections are secure.
- Q Will the shift interrupter on an OMC stern drive boat work with the Ignitor™?
- A The Ignitor is compatible with all OMC stern drive applications, when equipped with a "diode fix". If you purchased a kit that does not include the "diode fix" diagram, call our tech line.
- Q How can I get additional help?
- A Call our tech line (800-827-3758) for any further instructions or questions.

## LIMITED WARRANTY

PerTronix, Inc. warrants to the original Purchaser of its solid-state ignition system (product) that the Ignitor shall be free from defects in material and workmanship for a period of (30) 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 products 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 OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THE FURNISHING OF A REPAIR OR REPLACEMENT 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.



## Installation Instructions for Part Number 1185LS & 1187LS

**Before installing, please read the following important information....**

1. The lobe sensor Ignitor is designed specifically for the applications and distributor numbers that are listed in the application guide. Any modification to this component will void the warranty.
2. The Ignitor is compatible only with a "points style" coil. A total primary resistance of 1.5 ohms is necessary.
3. Caution: never use a "HEI" type coil with the Ignitor. This type of coil will damage the module, cause it to fail, and void the warranty.
4. If your ignition system presently is equipped with a ballast resistor, do not remove it. (See Figure 3).
5. The red wire from the Ignitor should be connected to the positive (+) side of the coil, or a 12-volt switching power source. (See Figure 2 & 3). The black wire must be connected to the negative (-) side of the coil.

### PRIOR TO INSTALLATION TURN THE IGNITION SWITCH OFF OR DISCONNECT THE BATTERY

1. Remove distributor cap and rotor from distributor. Do not disconnect the spark plug wires from cap. Examine parts for excessive wear. Replace as needed.
2. Remove the point wire from the negative coil terminal.
3. Remove and retain the point and condenser. Installing the Ignitor does not alter the internal configuration of your distributor. Therefore, the points, condenser and hardware can be used as backup.
4. Clean all dirt and excess oil from the breaker plate and point cam.
5. Set the Ignitor plate onto the breaker plate. Confirm that the Ignitor plate is flat and fits without any modification. Fasten the plate in place using the screw provided.
6. NOTE: 1186LSC kits have an additional spacer plate. Remove the module from the adapter plate, install both the spacer plate and adapter plate into the distributor. Fasten them with the provided screw and then reinstall the module. Make sure to tighten the retaining nut.
7. Insert both wires through the wire access hole in the side of the distributor housing.
8. Pull the rubber grommet into place. Check to insure that the wires do not contact any moving parts.
9. Replace distributor cap and rotor. Make sure all spark plug wires are securely attached
10. Connect the black Ignitor wire to negative (-) side of the ignition coil.