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 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 . 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 or resistance wire, connect the red ignitor wire to the ignition wire prior to the ballast resistor or resistance wire. Second, if you do not have a an external resistor you must connect the ignitor red wire to a 12-volt source that is controlled by the ignition switch.

Q. Should I remove the starter bypass wire?

A. No, the starter bypass wire is needed to provide voltage while starting (cranking).

Q. What type of coil do I need?

A. The ignitor is compatible only with a "points type" coil. Eight cylinder engines require a minimum of 1.5 Ohms of resistance in the primary circuit. Four & six cylinder engines require a minimum of 3.0 Ohms of primary 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 ohmmeter to both the positive and negative terminals. The reading should be 1.5 Ohms or greater for eight cylinder engines and 3.0 Ohms or greater for six cylinder engines. (Your local auto parts store can do this for you if you don't 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 Flamethrower 40,000-volt coil, which provides resistance internally. Note: Many vehicles come with ballast resistor or resistance wire. These applications do not need an additional resistor.

Q. What happens if you leave the ignition switch on when the engine is not running?

A. This can cause your coil to overheat, which may cause permanent damage to the coil and the ignitor.

Q. May I modify the length of the wires?

A. Yes, you can cut the wires to any length your application may require. You may also add length 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 (909-547-9058) for any further instructions or questions.

FLAME-THROWER COIL APPLICATIONS										
Use with:	System Voltage	Cylinders	Primary Resistance	Recommended Flamethrower Coils						
				Black	Chrome	Ероху				
Ignitor	12-Volt	4 & 6	3.0 ohms	40511	40501	40611				
	Agricultural & Industrial									
Ignitor	12-Volt	4 & 6	2.8 ohms	28010 or 40511, 40501, 40611						

NOTE:

 REMOVE OR BYPASS EXTERNAL BALLAST RESISTOR/RESISTANCE WIRE WHEN INSTALLING THE RECOMMENDED FLAME-THROWER COIL.

FOR PART	NUMBERS:			
LU-142A	LU-149	LU-164	LU-243	
LU-143	LU-162A	LU-165	LU-244	
LU-144	LU-163	LU-166A	LU-148	
			-	

LIMITED WARRANTY

Pertronix, Inc. Warrants to the original Purchaser of its solid-state ignition system (product) that the Ignitor, magnet assembly and wiring (components) 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.
- Delivers the defective products product or component to Pertronix (ATTN: Warranty) with proof of purchase date; and
- Has installed and used the product in a normal and Proper manner, consistent with Pertronix printed instructions.

THE FORGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING AND IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PURPOSE

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



440 E. Arrow Highway, San Dimas, CA. 91773 909-599-5955 www.pertronix.com



12-Volt Negative Ground Instructions

LUCAS DISTRIBUTORS

CAUTION!!! Please read the following important information....

- DO NOT USE SOLID CORE SPARK PLUG WIRES. Use suppression or carbon type spark plug wires.
- Warning!!! Leaving the ignition switch "ON" with the engine "OFF" for an extended period could result in permanent damage to the Ignitor.
- Four & Six cylinder engines require a minimum of 3.0 ohms of primary resistance. NOTE: If your Ignition coil has the recommended primary resistance, remove or bypass all external resistors. Do not remove resistors if the coil primary resistance is *lower than* 3.0 ohms.
- **4. Note:** Most GM & Ford applications from 1957 to 1974 use a Resistance Wire. Go to www.pertronix.com for additional information or call Technical Support @ 909-547-9058 for additional assistance.
- 5. See back page for coil recommendations.
- 6. The Ignitor is compatible as a trigger for most electronic boxes.

DISTRIBUTOR DISASSEMBLY

- PRIOR TO INSTALLATION TURN IGNITION SWITCH OFF OR DISCONNECT THE BATTERY
- 2. Remove the distributor cap, and rotor. Do not disconnect spark plug wires. Examine cap and rotor for wear or damage. Replace as needed.
- 3. Disconnect the point wire from the negative (-) terminal of the coil.
- Remove the point wire, point, and condenser from the distributor. The Ignitor does not require any modification to the distributor. Therefore the point, condenser and hardware can be used as backup.
- 5. Clean all dirt and excess oil from the breaker plate and point cam.

IGNITOR INSTALLATION

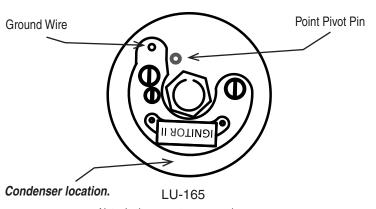
PART NUMBERS: LU-243, LU-244,

- Install Ignitor over point guide pin, line up point screw hole and secure with provided hardware.
- Insert wires through hole in distributor housing, and pull wire grommet into place. Make sure wires do not interfere with any moving part.
- Install magnet sleeve over distributor shaft, onto point cam. Rotate sleeve until a slight locating position is felt before applying pressure. With sleeve lined up on point cam, press down firmly insuring sleeve is fully seated.
- Air gap is **NOT** adjustable.

PART NUMBER: LU-165,

- Place Ignitor over eccentric screw (See Figure 1), rotate if necessary to line up holes on breaker plate. Secure Ignitor with provided hardware.
- Insert wires through hole in distributor housing, and pull wire grommet into place. Make sure wires do not interfere with any moving part.
- Install magnet sleeve over distributor shaft, onto point cam. Rotate sleeve until a slight locating position is felt before applying pressure. With sleeve lined up on point cam, press down firmly insuring sleeve is fully seated.
- Air gap is **NOT** adjustable.

FIGURE 1



Note: Ignitor mounts over condenser original location. Do not use point pivot pin, it's not used for Ignitor installation.

PART NUMBERS: LU-148, LU-163 & LU-164,

- LU-163 & LU-148 are designed for NON-VACUUM ADVANCE distributors.
- LU-164 is designed for VACUUM ADVANCE distributors.
- Install Ignitor over point guide pin, line up point screw hole and secure with provided hardware. NOTE: LU-148 lines up with the condenser screw hole.
- Insert wires through hole in distributor housing, and pull wire grommet into place. Make sure wires do not interfere with any moving part.
- Install magnet sleeve over distributor shaft, onto point cam. Rotate sleeve until a slight locating position is felt before applying pressure. With sleeve lined up on point cam, press down firmly insuring sleeve is fully seated.
- Air gap is NOT adjustable.

PART NUMBERS: LU-143 & LU-144,

- See Figure 2 to insure that you are installing the correct kit.
- Install Ignitor over point guide pin (LU-143), LU-144 uses a guide hole), line up point screw hole. Secure Ignitor with provided hardware.
- Insert wires through hole in distributor housing, and pull wire grommet into place. Make sure wires do not interfere with any moving part.
- Install magnet sleeve over distributor shaft, onto point cam. Rotate sleeve until a slight locating position is felt before applying pressure. With sleeve lined up on point cam, press down firmly insuring sleeve is fully seated.
- Air gap is **NOT** adjustable

FIGURE 2

LU-143

Note: Ignitor LU-143 fits 45D4, 44D4 and 43D4 LUCAS distributors with LUCAS red points.



Note: Ignitor LU-144 fits 45D4, 44D4 and 43D4 LUCAS distributors with LUCAS blue points.



PART NUMBERS:

LU-142A (23D4, 25D4), LU-162A (23D6, 25D6) & LU-149,

- Remove module from the adapter plate.
- Install Ignitor adapter plate onto breaker plate. Secure Ignitor with provided hardware.
- Place the Ignitor module on the adapter plate studs. Secure module to adapter plate with the nuts provided.
- Insert wires through hole in distributor housing, and pull wire grommet into place. Make sure wires do not interfere with any moving part.
- Install magnet sleeve over distributor shaft, onto point cam. Rotate sleeve until a slight locating position is felt before applying pressure. With sleeve lined up on point cam, press down firmly insuring sleeve is fully seated.
- Air gap is NOT adjustable.
- 6. Install distributor rotor and cap. Make sure all spark plug wires are securely attached. *DO NOT USE SOLID CORE SPARK PLUG WIRES*. Use suppression or carbon type spark plug wires.
- 7. See Wiring Instructions.

WIRING INSTRUCTIONS

- A BALLAST RESISTOR OR RESISTANCE WIRE MAY OR MAY NOT BE INCLUDED IN THE ORIGINAL EQUIPMENT.
- Connect the Ignitor black wire to the negative (-) terminal of the ignition coil.
- 2. For installations that do not use a primary ballast resistor or resistance wire, connect the Ignitor red wire to the positive (+) terminal of the ignition coil. (See Figure A)
- For installations that use a primary ballast resistor or resistance wire, connect the Ignitor red wire to the ignition switch side of the ballast resistor or resistance wire. (See Figure B).
- Reconnect battery and make sure all wires are connected.
- 5. The engine can now be started. Let the engine run for a few minutes and then set the timing in the conventional manner.

FIGURE "A"

USE FIGURE "A" ONLY WHEN INSTALLING THE RECOMMENDED COIL.

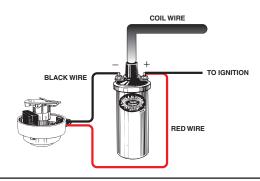


FIGURE "B"

USE FIGURE "B" WHEN USING THE STOCK COIL WITH THE BALLAST RESISTOR OR RESISTANCE WIRE.

