

# **INSTALLATION INSTRUCTIONS**

## **Mallory Unilite® Conversion Kit Chevy V8 - PN 503M**

**Warning:** The Unilite® Electronic Ignition is an extremely reliable unit. Caution must be taken that the wiring is done exactly as shown in the instructions. After the Unilite® Ignition is installed and **before you start the engine**, re-check the wiring according to the instructions. Mis-wiring will cause the Unilite® Ignition to fail immediately.

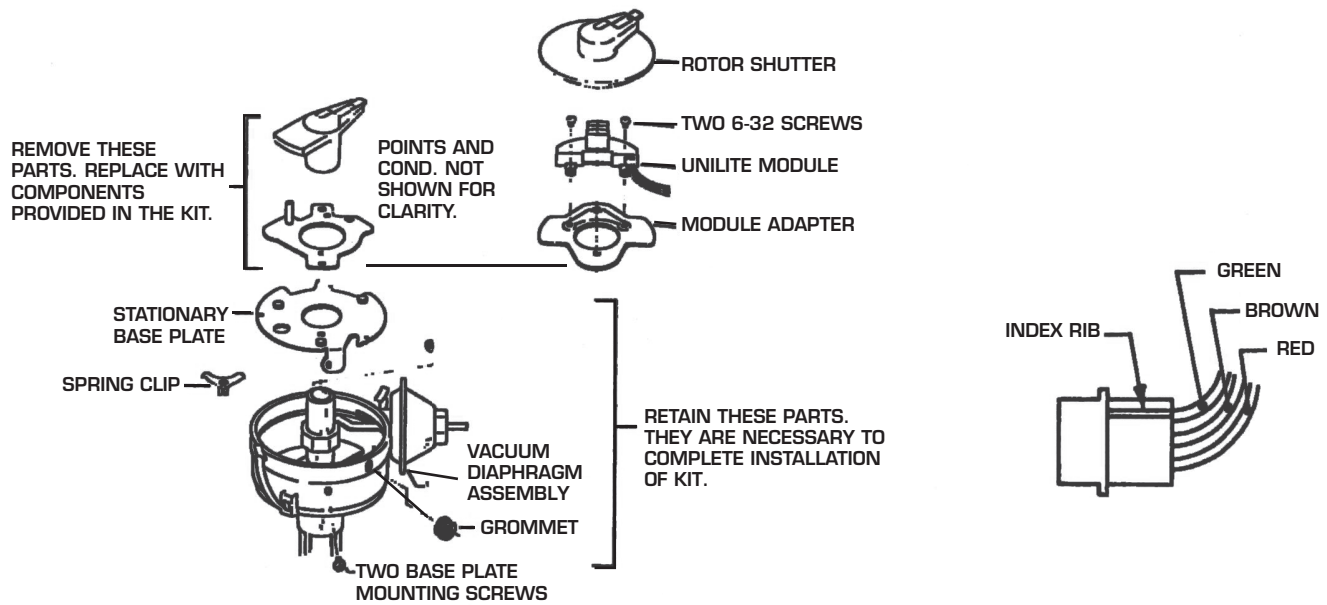
**Note:** The Unilite® Kit can be installed without removing the distributor if there is room to do so. Otherwise, remove the distributor to install the Unilite® Kit.

### **INSTALLATION**

1. Remove and set aside the distributor cap to allow clear access. Do not remove plug wires from the cap if it is not necessary to remove the distributor from the engine to install the Unilite® Kit. Remember the rotor location when removing the distributor so it can be reinstalled on the engine pointing the same direction.
2. Remove points, condenser, primary lead wire, and rotor from the distributor.
3. Remove points plate assembly from the distributor housing. This can be done without removing the vacuum diaphragm.
4. With point plate assembly removed from the distributor, disassemble upper point plate from the lower stationary base plate by removing spring clip located beneath the base plate.

**CAUTION:** Remove spring clip gently to avoid spring clip distortion.

5. To reassemble plate assembly, reverse the process in Step 4, using the new module adapter plate supplied (Figure 1).
6. Reinstall new plate assembly into distributor housing the same as the original point plate. Be sure the vacuum diaphragm arm is properly connected to the movable plate.
7. Install Unilite® module, using the two 6-32 screws supplied.
8. Push supplied rubber grommet into the hole inside distributor housing. Be sure the flat in front of the rubber grommet is on the outside of the distributor housing facing upward. Push wires from the module through the rubber grommet.
9. Mount connector pins into plastic terminal pin housing supplied. Be sure wires are shoved into pin housing as shown in Figure 2. Shove pins into pin housing until a definite click is heard. Install rotor-shutter onto cam sleeve. Be sure it is sealed down onto the cam sleeve.
10. If the distributor was removed from the engine, install back into the engine with the rotor pointing to the same location from which it was originally removed.
11. Install new distributor cap onto distributor housing. Holding original distributor cap near new distributor cap, remove plug wires one at a time, installing them into new distributor cap in the same connector sockets as removed from the original cap. Be sure to do this one at a time to not change the firing order. Remove coil wire from the original cap and install it into the new cap.
12. Engine is now ready to start. Using a timing light, adjust initial timing at idle. The vacuum line should be disconnected for this operation. Set timing as recommended by the engine manufacturer.

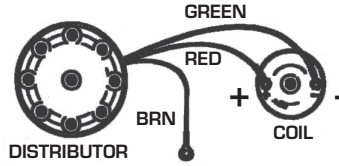
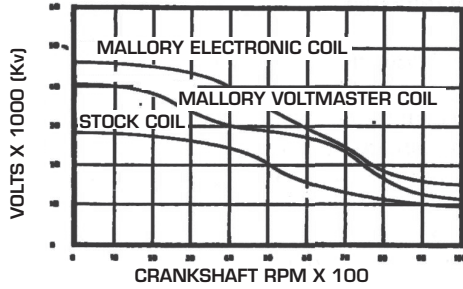


#### WIRING DIAGRAM FOR UNILITE CONVERSION KIT

**RESISTOR NOTE:** TO PREVENT COIL DAMAGE, THERE MUST BE A BALLAST RESISTOR CONNECTED IN SERIES BETWEEN THE IGNITION SWITCH AND COIL. ALL DOMESTIC CARS AND TRUCKS ARE DESIGNED WITH THIS RESISTOR, EITHER MOUNTED ON THE FIRE WALL OR HIDDEN IN THE WIRE LOOM. IF THIS IGNITION SYSTEM IS INSTALLED IN AN ENGINE WHERE THERE IS NO RESISTOR, PART NO. 28127 MUST BE INSTALLED.

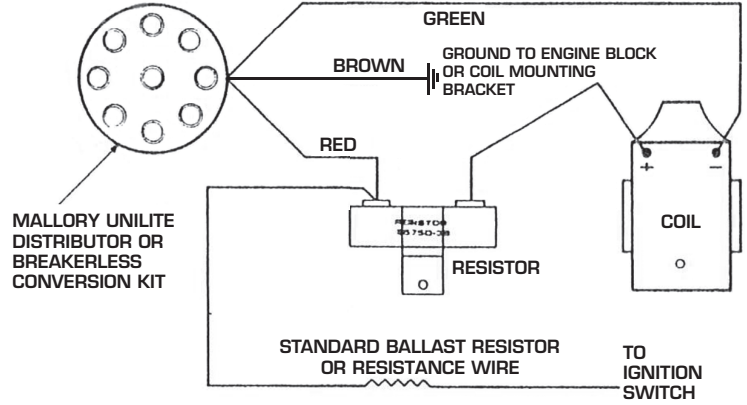
Figure 1

THE PERFORMANCE OF THE UNILITE IGNITION CAN BE GREATLY INCREASED BY THE INSTALLATION OF PART NO. 29150 MALLORY ELECTRONIC COIL. SEE GRAPH BELOW. INSTALL COIL AS PER UNILITE ELECTRONIC IGNITION INSTRUCTIONS.



FOR 29150, 29217 AND EXISTING BREAKER POINT TYPE COILS ONLY

GROUND DIRECTLY TO ENGINE BLOCK OR COIL MOUNTING BRACKET.



VOLTMASTER COIL PN 28675 WIRING DIAGRAM

INSTRUCTIONS FOR TESTING THE UNILITE ELECTRONIC IGNITION ON A SUN DISTRIBUTOR TESTER

USING A 6-VOLT LANTERN BATTERY, CONNECT UNILITE IGNITION TO SUN TESTER AS SHOWN IN DIAGRAM BELOW. WHEN CONNECT AS SHOWN, THE UNILITE IGNITION CAN BE TESTED IN THE CONVENTIONAL MANNER.

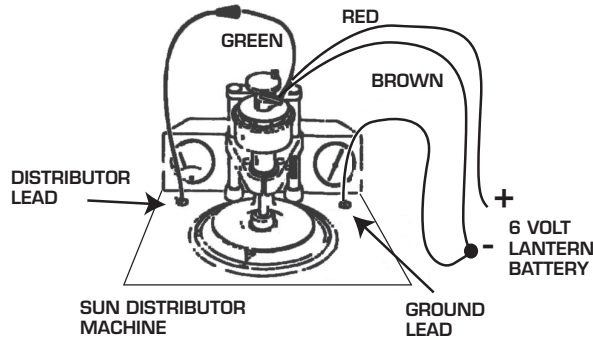


Figure 2

## TECH NOTES

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### Service

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for warranty service, **Proof of Purchase** must be supplied for verification. After the warranty period has expired, repair service is based on a minimum and maximum fee.

**All returns must have a Return Material Authorization (RMA) number** issued to them before being returned. To obtain an RMA number please contact MSD Customer Service at 1 (888) MSD-7859 or visit our website at [www.msdpower.com/rma](http://www.msdpower.com/rma) to automatically obtain a number and shipping information.

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle. The repaired unit will be returned as soon as possible using Ground shipping methods (ground shipping is covered by warranty). For more information, call MSD at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

### Limited Warranty

MSD warrants this product to be free from defects in material and workmanship under its intended normal use\*, when properly installed and purchased from an authorized MSD dealer, for a period of one year from the date of the original purchase. This warranty is void for any products purchased through auction websites. If found to be defective as mentioned above, it will be repaired or replaced at the option of MSD. Any item that is covered under this warranty will be returned free of charge using Ground shipping methods.

This shall constitute the sole remedy of the purchaser and the sole liability of MSD. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representation whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall MSD or its suppliers be liable for special or consequential damages.

\*Intended normal use means that this item is being used as was originally intended and for the original application as sold by MSD. Any modifications to this item or if it is used on an application other than what MSD markets the product, the warranty will be void. It is the sole responsibility of the customer to determine that this item will work for the application they are intending. MSD will accept no liability for custom applications.