

MSD[™] IGNITION INSTALLATION INSTRUCTIONS

MSD Noise Filter Capacitor PN 8830

Parts Included:

1 – Noise Filter Capacitor	2 – 10-32 x 3/8" Screws
1 – Mounting Bracket	4 – Star Washers
2 - #10 Cup Washers	1 – Cover

1. For best results, it is recommended to mount the Capacitor as close as possible to the MSD Ignition Control. Find a secure mounting point and mark the location of the mounting holes. Use a 3/16" bit to drill the holes and use the supplied screws to mount the Capacitor.
2. Mark the point where the MSD's heavy Red and Black wires will be connected to the Capacitor terminals (note that there is a positive (+) and a negative (-) terminal. Strip about 1 1/4" of insulation from the wire at this point. (Ringlug terminals can also be used.)
3. Form a loop at the stripped wiring point and attach the Red to the positive terminal and the Black wire to the negative terminal with the supplied hardware as shown in Figure below.

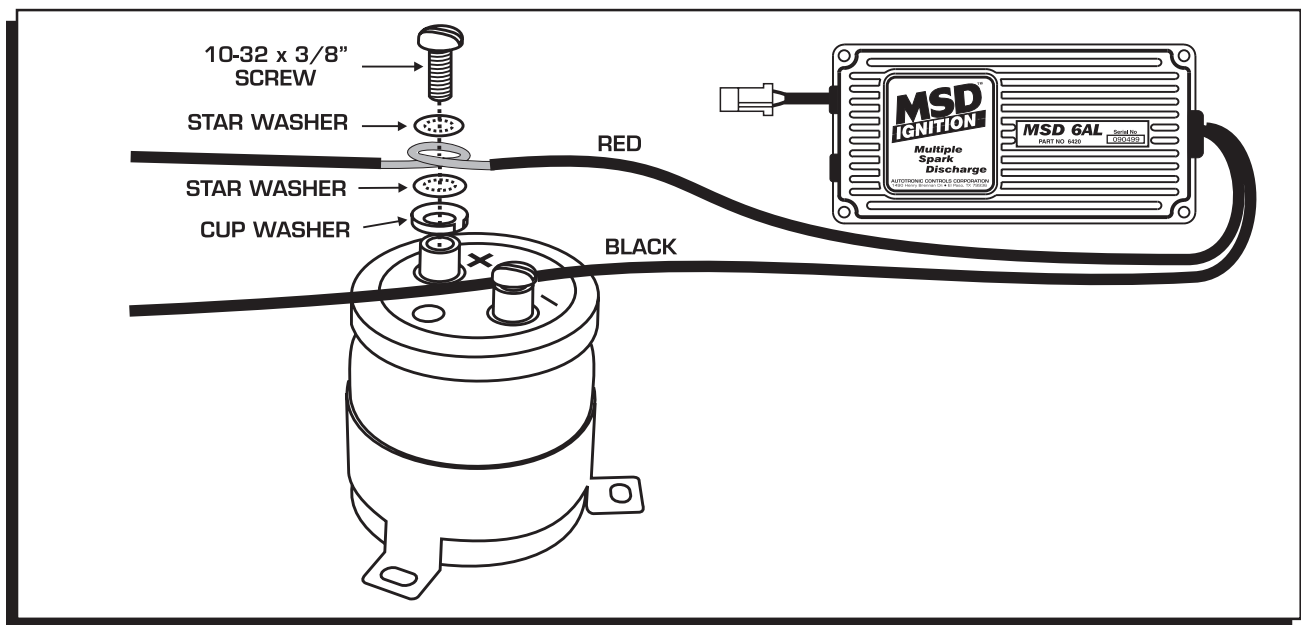


Figure 1 Installing the Noise Filter Capacitor.

IDENTIFYING AND PREVENTING RADIO NOISE

Radio noise can be frustrating but there are steps you can take to isolate the problem. If the noise disappears when the MSD is bypassed, then the ignition has added a factor that directly, or indirectly causes the interference.

Due to the increased output of the MSD, the breakdown of items like the spark plug wires, spark plugs or related components may be brought into the light so the ignition components should be inspected. Also check the following:

- The chassis and engine must have a common ground. A ground strap from the frame to the engine is important. All radio, CD players, CB systems and other accessories must have a common ground connection to the chassis as well.

MSD **IGNITION** **INSTALLATION INSTRUCTIONS**

- The Heavy Black wire of the MSD must be grounded to the battery negative terminal, the chassis or the engine.
- The mounting location of the MSD should be away from the vehicle's antenna.
- The spark plug wires must be spiral or helically wound wires and in good condition. Solid core wires cannot be used due to their inability to suppress electrical noise. Helically wound wires are designed to suppress electrical noise.

Radio noise can be broken down into two distinct categories; Radio Frequency and Supply Line.

Radio Frequency noise is generated by the secondary side of the ignition (coil wires, cap, rotor, spark plug wires). This noise is radiated into the air and picked up by the antenna. This noise will be noticeable on the AM band and will be louder between stations. The FM band may also be affected slightly. If you play a tape or CD, the noise will go away. Maintaining the secondary side of the ignition system is important in eliminating radio frequency noise.

Supply Line noise is caused by varying loads of the vehicle's supply voltage. These variances are amplified through the radio's 12 volt supply wire and are heard through the speakers. Supply line noise will be audible on AM and FM as well as during tapes or CDs. For Supply Line noise, the MSD Noise Capacitor will help.

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 service, Proof of Purchase must be supplied for warranty verification. After the warranty period has expired, repair service is charged based on a minimum and maximum charge.

Send the unit prepaid with proof of purchase to the attention of: **Customer Service Department, Autotronic Controls Corporation, 12120 Esther Lama, Suite 114, El Paso, Texas 79936.**

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 after receipt, COD for any charges. (Ground shipping is covered by warranty). All units are returned regular UPS unless otherwise noted. For more information, call the MSD Customer Service Line (915) 855-7123. MSD technicians are available from 8:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

Limited Warranty

Autotronic Controls Corporation warrants MSD Ignition products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.