

# 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 1¼" 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.

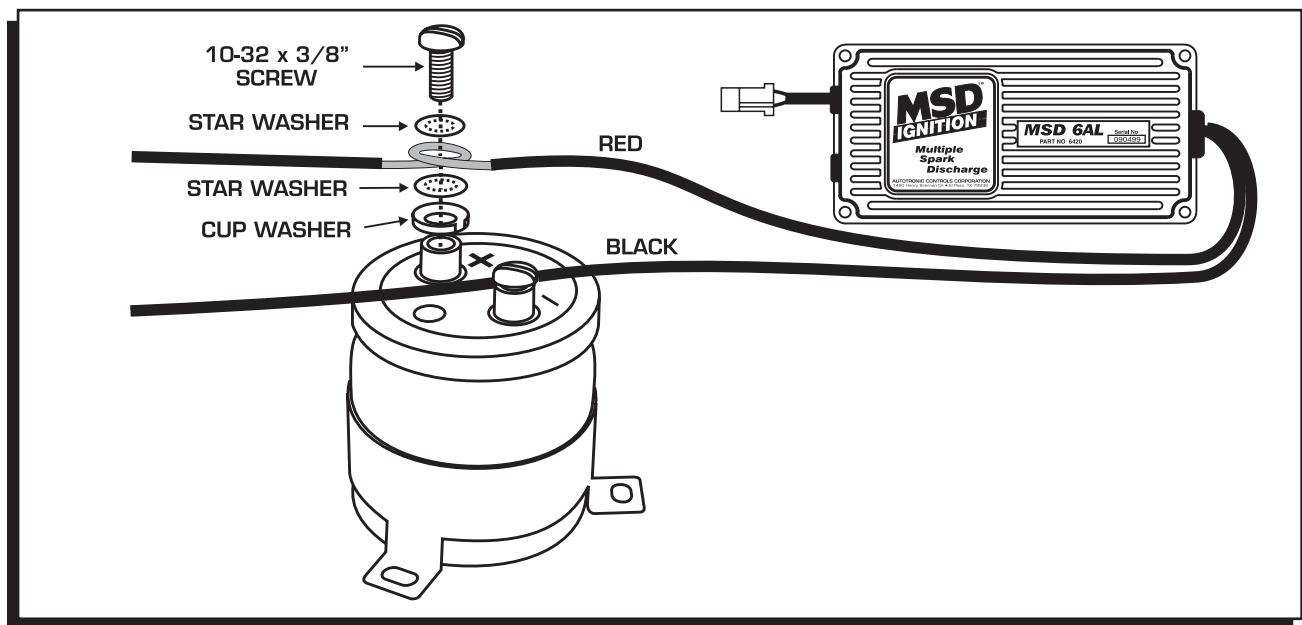


Figure 1 Installing the Noise Filter Capacitor.

### 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.



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- 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 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.msdisignition.com/rma](http://www.msdisignition.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 Ignition at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 6:00 p.m. Monday - Friday (mountain time).

## Limited Warranty

MSD IGNITION 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 Ignition. 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 Ignition. 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 Ignition 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 Ignition. Any modifications to this item or if it is used on an application other than what MSD Ignition 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 Ignition will accept no liability for custom applications.