

4-Amp Automotive Noise Filter Kit

Your RadioShack 4-Amp Automotive Noise Filter Kit is designed to reduce or eliminate any radio frequency interference noise that you hear through your vehicle's stereo, CB radio, or scanner. This noise is caused by your vehicle's alternator or ignition system.

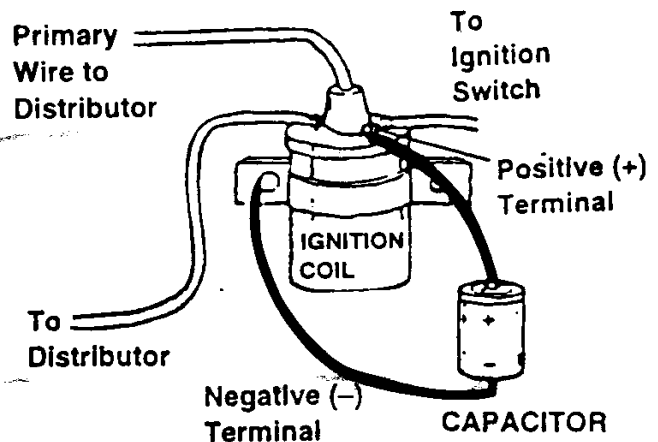
Your kit includes one 220 μ F 25 V electrolytic capacitor, one choke, and two mounting screws. You can use the capacitor to help reduce or eliminate ignition noise. You can use the choke (and the capacitor, if necessary) to help reduce or eliminate alternator noise.

Caution: For added safety and to protect your vehicle's electrical system, disconnect the cable from your vehicle battery's negative (-) terminal before you begin. Then, when you have installed the kit, reconnect the cable to the vehicle battery's negative (-) terminal.

Note about using the capacitor: To use the supplied capacitor to reduce ignition noise, your vehicle must have a separate ignition coil. If the ignition coil is sealed inside the distributor, you cannot connect the capacitor to it. Instead, you can use noise suppressor spark plug wires (available at many automotive supply stores) to reduce or eliminate ignition noise. Contact your vehicle's dealer for more information.

FOR IGNITION NOISE

Ignition noise sounds raspy, varying with the speed of the engine and the distance of the radio from the transmitter. If you hear this type of noise through your stereo, CB radio, or scanner, follow these steps to connect the supplied capacitor to your vehicle's ignition coil and chassis ground.



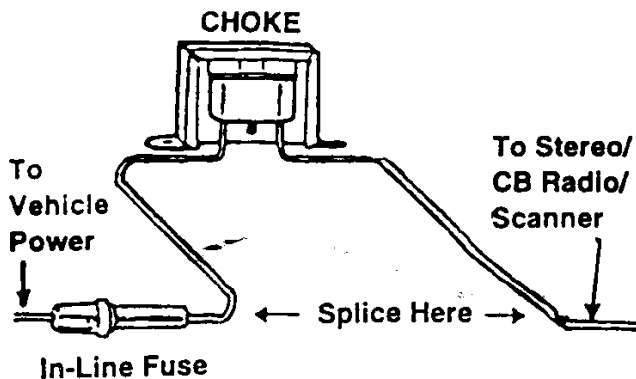
1. Connect the capacitor's positive (+) end to the ignition coil's positive (+) terminal.

Caution: Connecting the capacitor anywhere else could damage the capacitor or your vehicle's ignition system.

2. Connect the capacitor's negative (-) end to a chassis ground, such as one of the screws on the ignition coil's mounting bracket. Be sure the screw is not insulated from the chassis by a plastic part.

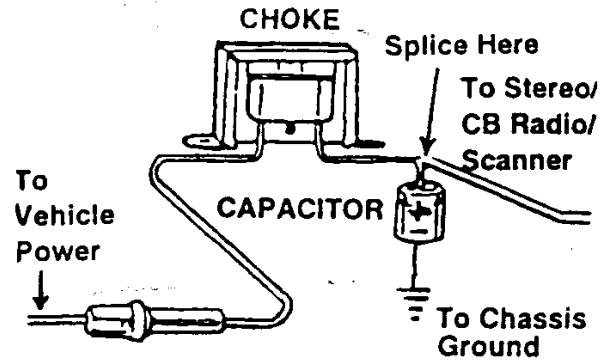
FOR ALTERNATOR NOISE

Alternator noise sounds like a high-frequency whine, varying with the speed of the engine. If you hear this type of noise through your stereo, CB radio, or scanner, follow these steps to connect the supplied choke (and capacitor, if needed) to your stereo's, CB radio's, or scanner's power wire.



1. Cut the stereo's, CB radio's, or scanner's power wire at a point ~~between~~ its in-line fuse and the stereo, CB radio, or scanner, then strip about $\frac{1}{2}$ inch of insulation from both cut ends.
2. Twist one of the choke's wires onto the power wire running from the fuse.
3. Twist the choke's other wire onto the power wire running from the stereo, CB radio, or scanner.
4. If the alternator noise is severe, connect the supplied capacitor's positive (+) end to the choke's wire you connected in Step 3, then connect the capacitor's negative (-) end to a chassis ground such as a metal screw attached to a metal part of the vehicle's frame. Be sure the screw

is not insulated from the chassis by a plastic part.



Note: If you have already installed the supplied capacitor (see "For Ignition Noise"), install another 220 μF 25 V electrolytic capacitor (such as RSU 11296936) in this step instead.

5. Secure all connections using insulated electrical tape (such as RadioShack Cat. No. 64-2348) or wire connectors (such as Cat. No. 64-3055 or 64-3057).
 6. Using the holes in the choke as a template, mark the mounting screw locations on the mounting surface, then drill two holes at the marked locations.
- Caution:** Be sure to avoid obstructions behind the mounting surface.
7. Use a Phillips screwdriver to attach the choke to a solid surface using the supplied mounting screws.