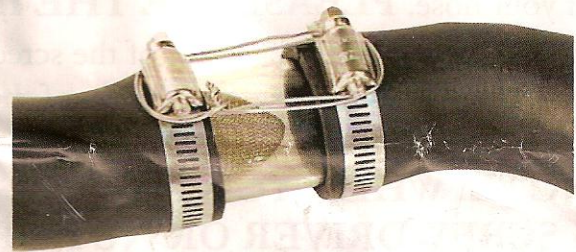
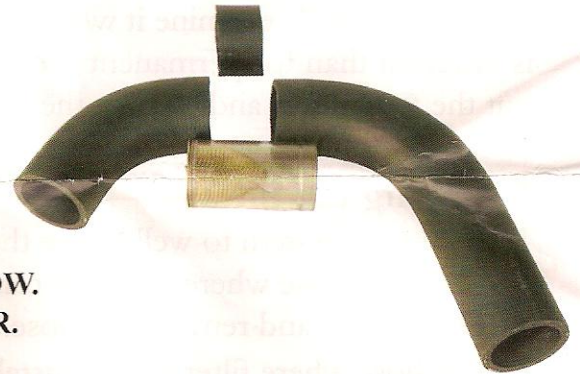




1) Establish area where filter will be installed in hose. Be sure that it is in a straight section to ensure proper seal. Mark area to be cut out of hose.

2) Cut and remove a section from the hose where filter will be. Remember that  $\frac{1}{4}$ " is the minimum amount to remove for a flush (end to end) installation. The amount of hose you remove in excess of  $\frac{1}{4}$ " is the size of the window into your cooling system. **NOTICE THE FILTER CONE. THE CONE IS THE DIRECTION OF FLOW. THE POINT OF THE CONE IS THE DEBRIS RESERVOIR.**



3) Insert the filter into the hose at least  $\frac{3}{4}$ " on each end. The 2 clamp and wire installation is for diagnostic use with a lower pressure (less than 10 PSI) radiator cap. For continuous use or higher-pressure systems, a 4 clamp and wire installation is recommended. The second set of clamps hold the safety lashing wire in place. **ALWAYS USE THE WIRE TO SECURELY TIE THE HOSE TO THE FILTER.**

#### These are important things to know and understand:

- 1) Use a proper mix of glycol based coolant/antifreeze and distilled water in the cooling system.
- 2) Check filter and coolant condition regularly. Clean filter or add coolant as needed.
- 3) Regularly test the coolant for protection and pH levels to keep system operating properly.
- 4) Do not use any stop leak or radiator flush additive in conjunction with this filter.
- 5) This filter is designed to keep a good radiator from getting clogged by chunks of circulating debris. It will not unclog an already plugged radiator. Clean or replace the radiator before installing the filter.



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Please read and understand these instructions before you install the filter.

This strainer type filter has been designed for installation in the outlet (upper) hose of the cooling system. It has been installed and tested in 1½" to 1¾" inside diameter hoses without any adapter sleeve needed. The purpose of this unit is to catch scale and foreign matter to prevent them from clogging the tubes of the radiator, heat exchanger or heater core(s). It can be useful as a diagnostic tool by giving the technician a window into the system to visually examine it while in operation. Installation for temporary diagnostic use is different than for permanent use. If you do not understand any of these instructions, put the tools away and contact the dealer you purchased this kit from for help right now.

### **Installing the filter:**

1. Drain the system to well below the level where the filter will be.
2. Mark the hose where the filter can be installed (3-4" straight section)
3. Disconnect and remove the hose.
4. Cut hose where filter will be installed. You will need to cut ¼" to 1½" from the middle of your hose. **PLEASE SEE THE INSTALLATION PHOTOS.**
5. Insert the filter with the point of the screen trap in the direction of flow. Pay close attention to this instruction. The tip of the screen points away from the engine and toward heat exchanger (radiator or heater core). **SEE PHOTOS.**
6. **NOTE: WHEN YOU INSTALL THE HOSE CLAMPS, USE ONLY A SCREWDRIVER OR NUT DRIVER AND TIGHTEN BY HAND. WRENCHES AND RACHETS CAN OVERTORQUE WORMGEAR DRIVE CLAMPS AND DAMAGE CLAMPS, HOSES OR FILTER.**
7. Install the first two clamps to secure the filter in place. Place the safety lashing wire across the filter, hoses and clamps. Install the second pair of clamps to the outside of the first set over the wire but still holding onto the filter. Secure the clamps, bend the wire back toward the center of the filter and twist the ends together. This will prevent the hose from blowing off of the filter under pressure. **THIS IS IMPORTANT. LOOK AT THE PHOTOS NOW.**
8. Reinstall the hose and refill the system with appropriate coolant mixture. Pressure test or operate system and check for leakage. Re-tighten clamps as needed.
9. Check and clean the filter regularly. A filter's job is to catch and hold debris. This can slow coolant flow. If the filter clogs up, it has done its job. Your job is to keep an eye on it and clean it regularly to prevent it from clogging up.

### **Cleaning the Filter:**

1. Drain system to well below the level of the filter and hose assembly.
2. Remove supply side hose clamps and filter from the hose assembly.
3. Remove, disassemble and clean filter screens with a soft brush and clean water.
4. Reassemble filter, reinstall in hose and refill cooling system. Test for leaks and tighten clamps as needed.