

Kit Contents: 1 FFD Electric Cooling Fan (Pre Installed)
1 FFD Aluminum Shroud
4 FFD Silicone Damping Liners (Pre Installed)
1 FFD Thermostatic Control Module w/ Two Types of Temp Sensors
1 FFD Fan Relay Harness
1 FFD Fuse Holder w/ Fuse
2 FFD Shroud Stabilizing Kits
1 FFD Tuning Tool

The fan has been pre mounted to the shroud at our factory and the damping liners are also already installed. The fan for this kit is configured as a puller. It is recommended that you hook up the fan to a 12 volt battery and establish the fan is in working order (all fans are tested prior to shipment to verify working condition, but it is recommended to retest once you receive in case of any shipping damage). You would hook up the red wire to the positive, and the black wire to the negative. Once you have established that the fan is in working order, you can proceed with the installation as shown below.

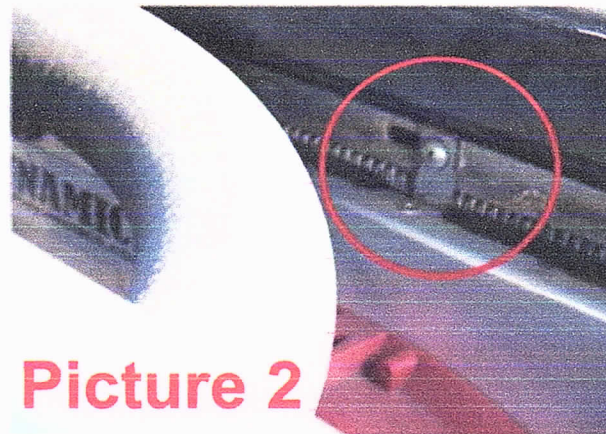
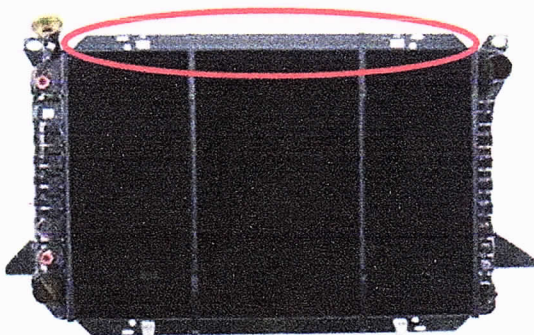
The fan has motor spacers set up so that it receives maximum air flow, however, if you need clearance you can remove one of the spacers by removing the fan blade with a 10mm socket or open end wrench, and then the 4 bolts that hold the motor in place. Then remove the fan motor and remove the spacer so you get the clearance you need. Keep in mind that the further the fan is spaced off of the radiator, the more air it will pull. It is set up for maximum air flow the way it is set up as it came to you, but you can remove if clearance is needed.

The fan shroud and fan will fit right onto the factory radiator. Take the assembly and place it onto your radiator so that the 2 top mounting braces line up against the top radiator channel (see pic 1 for where to look for the top radiator channel, may not represent actual radiator). Take a magic marker and mark a dot inside each of the holes of the shroud mounting braces, so that it leaves the dot onto the top of the radiator channel. Remove the shroud assembly and make sure you see the 2 dots on the top radiator channel. Once you have your dots, proceed to drill the holes at those dots you just created into the top radiator channel, use the correct drill bit so that the included nuts and bolts will fit through. Once the 2 holes are drilled, place the shroud assembly back onto the radiator and line up the brackets so that the holes you just drilled and the holes in the brackets line up together. Using the nuts and bolts supplied, attach the shroud assembly to your radiator, see picture 2. Now that the assembly is hanging in position you can attach the shroud stabilizing straps. You would do this by taking the nylon strap and run it through the one of the 8 predrilled holes on each shroud, then through the fins of the radiator core and out the other side. Next position the shock rings onto the strap, then slide the locking disc and secure it tightly, and then trim off the excess (not too close, leave about 1/4"). Once all 8 of the stabilizing straps are in place and the assembly is fully installed onto your radiator, you can hook up your fans to your vehicle. Follow the instructions for the control module and fan relay harness.

Factory shroud can be reinstalled back into place for a factory look. Make sure the fan is centered towards the opening.

We hope these little tips help in your installation. And always, be safe on the road!!!

Pic. 1



Picture 2



Note: Before starting installation, read instructions completely and disconnect battery.

Fan Control Module Installation For Fan Set Up

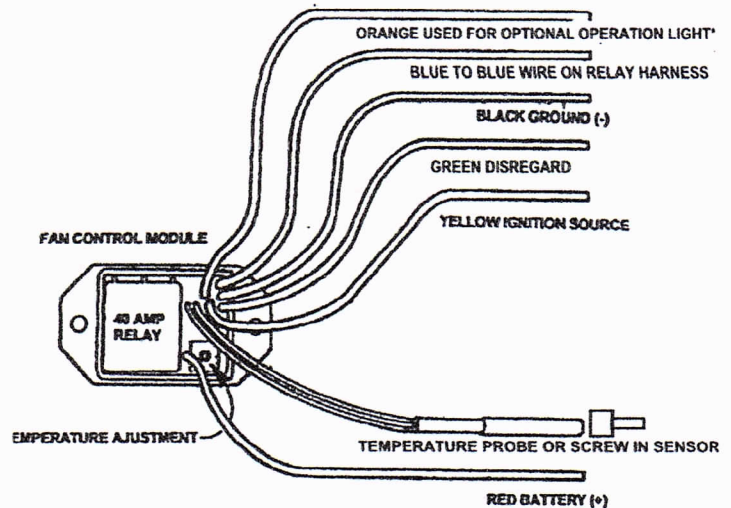
The fan control module must be mounted in a cool, dry location, away from hot components. The module has 2 sensor options - screw in sensor or slide in probe. Chose your desired sensor and plug it into the thin dual black wire with plug.

1. Using mounting feet on fan control module as a guide, mark and drill two 5/32" holes.
2. Use the two #10 metal screws provided to mount the control module.

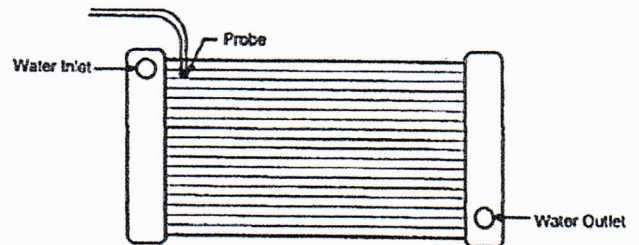
Wiring

- Red:** Attach to positive (+) side of battery.
- Orange:** Can be used as a fan operation warning light hook up for those wanting that option. (see attached sheet)
- Blue:** Attach to Blue Wire on Relay Harness
- Yellow:** Attach to an ignition switched 12-volt source. If this wire is hooked up to a constant source (like the battery) the fan will continue to run after the vehicle is shut off and could run down the battery.
- Green:** Is not used for HD Extreme Systems. Please Disregard green wire
- Black:** Attach to a good chassis ground. Do the same with the ground lead off of the fan motor.

CAUTION: When adjusting the POT, be sure to turn SLOWLY & GENTLY. When you reach the end of the dial in either direction, DO NOT force it, as this will strip the POT. STRIPPED POTs ARE NOT COVERED UNDER WARRANTY. ALL ARE CHECKED PRIOR TO SHIPMENT FOR FULL RANGE FUNCTION.



1. Turn adjustment pot counter clockwise to lower fan turn-on temperature.
2. Turn adjustment pot clockwise to raise fan turn-on temperature.



Temperature Probe Installation

1. The temperature probe must be inserted into the radiator core between the fins. The best location is close to the WATER INLET as close as you can get it.
 2. The probe should fit tightly in the radiator fins & should not extend past the radiator core. This will not affect operation.
- NOTE: Do not use sharp objects to install the probe. Do not install probe in radiator water or radiator hoses. Water will damage the probe.

OR

Temperature Screw In Sensor Installation

1. We use thin tight metric threads so you can drill and tap into plastic radiator end tanks, aluminum radiator end tanks, water necks, etc.
2. Select your location, use a drill bit & tap size 8 x .75 to create threaded hole, then carefully screw the sensor in place

Follow the directions for the fan control module. The blue wire on the fan control module gets hooked up to the blue wire on the fan relay (diagram below). Follow the rest of the wiring setup for the Fan Relay Harness.

Red: Attach to Positive (+) Side of Battery

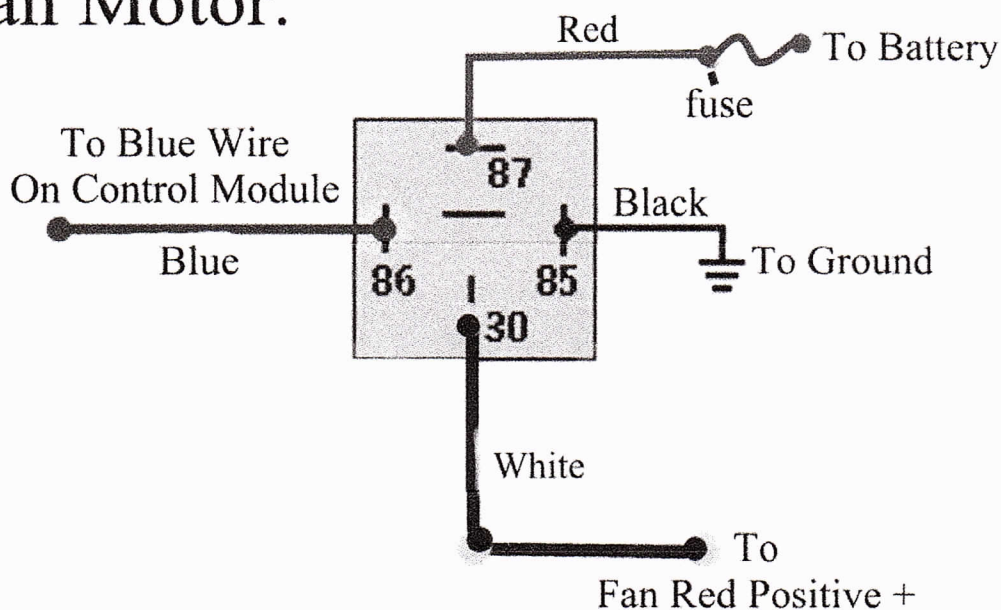
(we have included a fuse holder w/ fuse that is to be attached between the Red wire and the battery)

Blue: Attach To Blue Wire On Controller

White: Attach To Fan Positive (+) Lead

Black: Attach To A Good Chassis Ground.

Do The Same With The Ground Lead Off The Fan Motor.



Fan Relay Wiring Diagram

The Orange Wire on the Control Module is an optional hook up wire for a fan operation light. Hook it up to a 5 watt 12 volt bulb or any L.E.D. 12 volt warning light so that the user will know that the fan is on. When the light is on, the fan is operating. This is just an option, it is not a requirement.