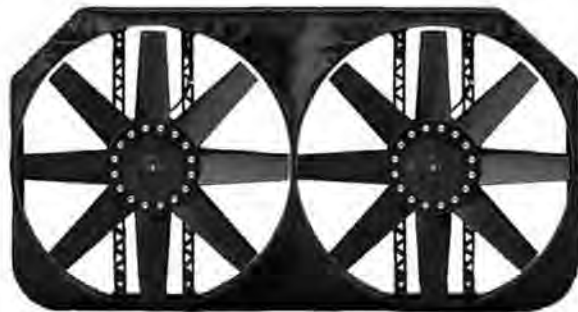




Monster Fan 282

Fits 1999^{1/2} - 2004 GM

Full-Size Trucks/SUV with 34" x 17" radiator



-----INSTALLATION INSTRUCTIONS-----

REMOVE EXISTING FAN & SHROUD ASSEMBLY:

1. Remove plastic radiator cover and top half of fan shroud.
2. Remove fan and clutch assembly. If clutch is mounted to the pulley, replace the nuts or bolts that hold the pulley on after clutch removal. The clutch may be mounted with a large single nut. It may be possible to remove this clutch by fitting a large wrench to the nut. Put a rag over the fan to avoid personal injury. Pull the wrench in the direction of fan rotation. It may help to give the end of the wrench a sharp strike from a soft-blow hammer to break the nut free without the pulley slipping.
3. Remove the lower shroud.
4. Removal of the air intake from the air box to the intake plenum will make installation easier, but is not necessary.

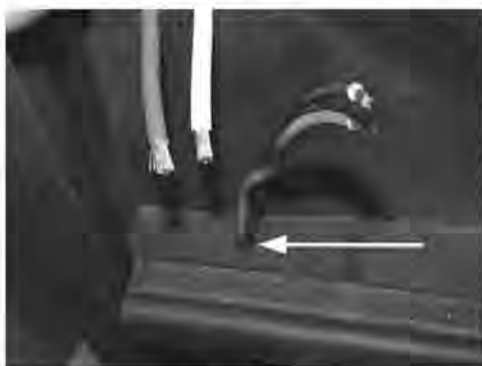
MOUNTING AND WIRING THE VARIABLE SPEED CONTROL (VSC):

1. The VSC can be mounted on the front face of the shroud. Using the VSC as a template, mark locations for two holes, then drill $\frac{5}{32}$ " holes for mounting the control onto the shroud. Use the two screws provided in the VSC kit (*see Detail 1*).
2. Drill two $\frac{1}{4}$ " holes to the left of the VSC to pass the yellow and purple wires through to the back side of the shroud (*see Detail 1*). Drill one $\frac{1}{4}$ " hole in the support rib on the back side of the shroud to pass the motor wires through (*see Detail 2*).
3. Place both red motor wires side by side and smoothly twist together. Completely insert pair of wires into one end of a yellow insulated butt connector. Crimp connector to secure. Repeat with black motor wires to another yellow insulated butt connector.
Red motor wire is (+) positive and the black is (-) negative.
Feed the thick purple and yellow wires from the control unit through the holes you drilled in step 2.
Insert yellow wire into the open end of butt connector containing the two red motor wires and crimp connector securely.
4. ***Insert purple wire into the open end of butt connector containing the two black motor wires and crimp connector securely. (see Detail 3).***
5. Zip tie the wires so that they are clear of the fan blade
6. Wrap the connections with electrical tape to seal them from moisture and dirt.

! FOLLOW INSTRUCTIONS CAREFULLY TO AVOID PERSONAL INJURY AND/OR DAMAGE TO THE FAN CONTROL UNIT! WHEN WIRING THE FAN ASSEMBLY, ALWAYS USE A QUALITY CRIMPING TOOL. DO NOT USE PLIERS OR OTHER DEVICES!



Detail 1



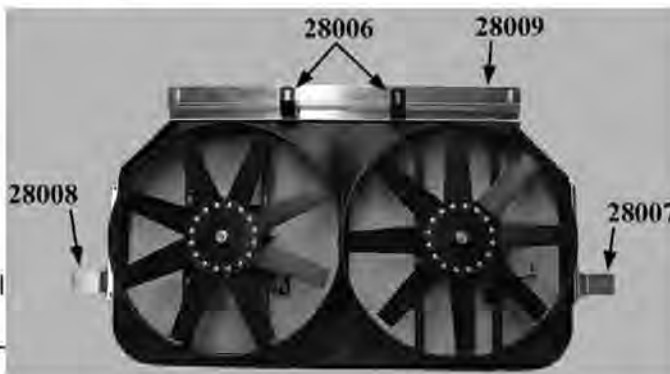
Detail 2



Detail 3

INSTALL THE ELECTRIC FAN ASSEMBLY:

1. Attach bracket **28009** to the top of the shroud using the two outside holes with the 6mm screws provided. Attach both **28006** brackets to the center two holes on **28009** with the tabs pointing up. These brackets will hold the upper radiator hose away from the fan blades.
2. Lower the fan assembly into place and attach bracket **28009** to factory mounting holes using factory screws. Attach part **28008** to driver's side of shroud with the tab towards the bottom. Mount **28007** on passenger's side of shroud also with the tab towards the bottom. The tabs should fit into the factory slots that held the lower half of the factory radiator shroud. Press the fan assembly against the radiator surface so that the rubber seal is compressed about 50%. Also make sure that the bracket **28009** is carrying the weight of the fan, not the side brackets. After this has been done, tighten all screws on the shroud and proceed with wiring the VSC.
3. Re-install factory dress piece that covers the top of radiator and locking mechanism for the hood.

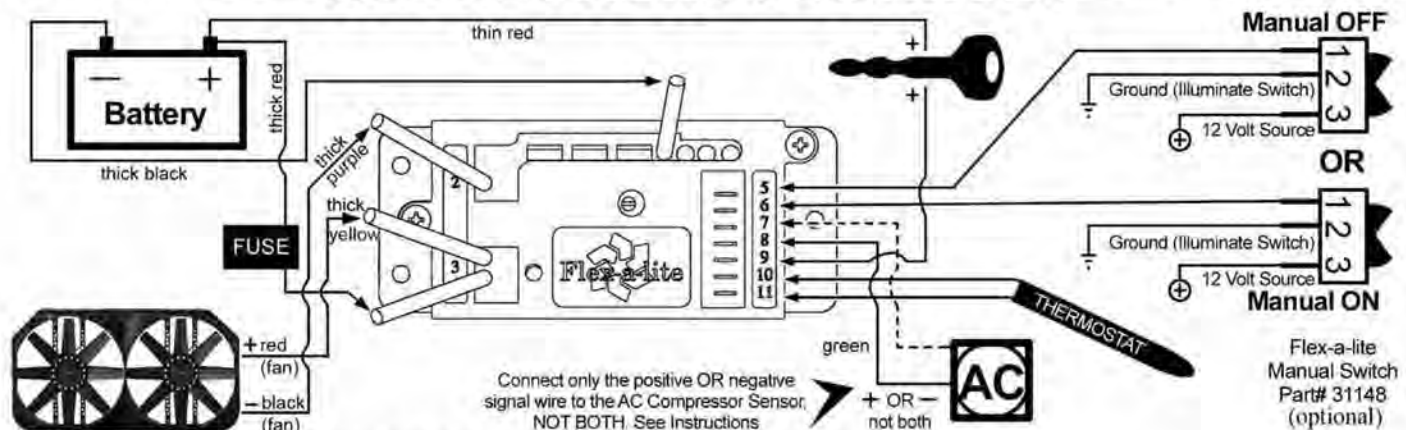


CONTINUE TO BACK SIDE TO COMPLETE THE INSTALLATION

The Flex-a-lite Limited Warranty

Flex-a-lite Consolidated, 7213-45th St. Ct. E., Fife, WA 98424, Telephone No. 253-922-2700, warrants to the original purchasing user, that all Flex-a-lite products to be free of defects in material and workmanship for a period of 365 days (1 year) from date of purchase. Flex-a-lite products failing within 365 days (1 year) from date of purchase may be returned to the factory through the point of purchase, transportation charges prepaid. If, on inspection, cause of failure is determined to be defective material or workmanship and not by misuse, accidental or improper installation, Flex-a-lite will replace the fan free of charge, transportation prepaid. Flex-a-lite will not be liable for incidental, progressive or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state to state. The Flex-a-lite warranty is in compliance with the Magnuson-Moss Warranty Act of 1975.

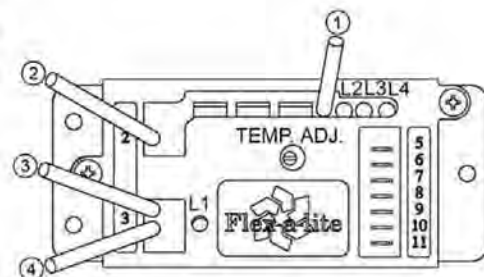
-----INSTRUCTIONS CONTINUED-----



WIRING CONNECTIONS

- | | |
|-----------------------------------|-----------------------------------|
| #1 Battery Negative* (BLACK) | #8 A/C Compressor Positive Signal |
| #2 Negative to Fan* (PURPLE) | #9 Ignition Positive Signal* |
| #3 Positive to Fan* (YELLOW) | #10 Temp Sensor Wire* |
| #4 Battery Positive* (RED) | #11 Temp Sensor Wire* |
| #5 Negative Override Signal OFF | L1 Fan Output Indicator |
| #6 Negative Override Signal ON | L2 Override Condition Indicator |
| #7 A/C Compressor Negative Signal | L3 A/C Signal Indicator |
| | L4 Ignition Signal Indicator |

* mandatory connections

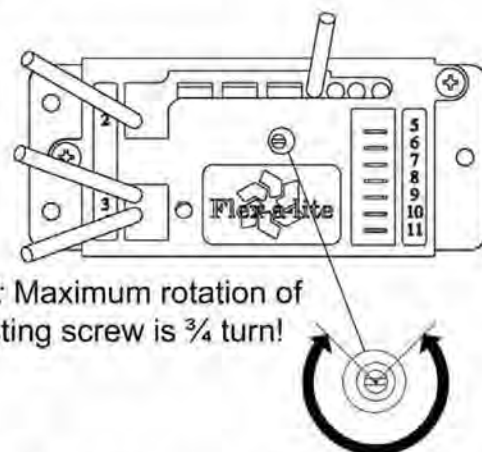


1. Find the thick red and black wire in the kit. Determine the length needed to connect the red and black power leads on the VSC to the battery terminals and trim appropriately. Crimp a large yellow ring connector to the end of the black wire and connect to the negative (-) battery terminal. Connect the other end to the black wire on the VSC with a large butt connector (yellow sleeve).
2. Locate the fuse holder. **DO NOT INSTALL THE FUSE UNTIL ALL THE WIRING IS COMPLETE.** Attach a large ring connector to one end and a yellow insulated butt connector to the other end of the fuse holder. Attach the ring connector to the positive (+) terminal of the battery and connect the other end to the thick red wire found in the kit. Determine the length of wire needed to reach from the fuse holder to the red wire on the VSC and trim appropriately. Use a yellow insulated butt connector to connect this wire to the red wire on the VSC. You may use the 2 small screws to mount the fuse holder if desired.
3. Find a circuit that is "hot," preferably in a fuse box, when the key is in the "ON" position. Attach the included fuse tap to fuse. Attach a pink female connector to one end of the thin red wire (included) and connect to fuse tap. Determine length of wire needed to reach VSC and trim to appropriate length. Attach a pink female connector to the end of the wire and connect to terminal #9 on VSC.
4. Locate wires going to A/C clutch. Determine which wire is ground and which is positive. Then attach supplied thin green wire by way of a piggyback connector to the positive wire that activates clutch. Attach wire to **terminal #8** on the VSC. Terminal #7 will be left open for this application.
5. Locate temperature probe. Gently push the probe through fins in radiator as close to the upper radiator hose as possible with 1/4"-1/2" of the probe protruding out of the front of the core. Install the rubber cap on the front side of the probe (if possible). This will give the VSC the most accurate engine temperature reading. Determine length of wire needed to reach VSC. **IMPORTANT:** Strip the insulation on the temperature probe wires back about 1" and fold the wire on itself to effectively double the thickness of the wire before connecting spade connectors. Then attach these wires to terminals #10 & #11. Both wires need to be connected, but it doesn't matter which wire goes to each terminal.
6. If manual switches (Flex-a-lite #31148) have been purchased, attach them as following. To override engine temperature to turn fans off, connect the switch to terminal #5 on VSC to send a ground signal. To override engine temperature to turn fans on, connect the switch to terminal #6 on the VSC so that a ground signal is sent.



Initial Set-up and Adjustment

1. Turn ignition on. After 5-6 seconds, LED #4 should light up. If not, attempt to make sure that you have 12 Volts at terminal #9 on VSC. The delay is to allow starter to start the vehicle without the fans drawing any power.
2. With your engine running, engage the A/C. Your fans should come on and cycle with the A/C clutch. LED's #1, 3 and 4 should be lit when fans are running. If they do not turn on, verify that the A/C clutch is engaged and make sure that you have the appropriate wire connected to correct terminal on the VSC. Shut off A/C and let engine continue to idle until you reach operating temperature.
3. Verify that operating temperature has been reached by feeling upper radiator hose. Hot water should be flowing through hose into the radiator. Adjust the screw on the VSC counterclockwise for a cooler setting or clockwise for a warmer setting. Once desired temperature is set, let engine continue to idle to make sure the fans will cycle to maintain desired temperature. When fans are running, LED's #1 and 4 should be lit.



The Variable Speed Control has new features!

When you set the on temperature, the fans will come on at 60%; this reduces the load on your charging system. If the temperature rises, the fan speed will increase. If your set temperature is 185° F, then between 185° and 195° the fan speed will increase from 60% to 100%. So after a 10° rise from the set point, the fans will be running at 100%.