



#274 Ford 03-07 6.0L Super Duty Diesel Fan

#275 Ford 03-07 6.0L Super Duty Diesel Fan W/O VSC

Fits MOST Ford 6.0L Super Duty Diesels, 2003-2007

(Note: Vehicle models may vary; review the instructions and components for compatibility with your vehicle prior to installation.)

1

Remove Front Shroud Assembly and Radiator

1. Make sure engine is cool.
2. Disconnect negative (-) battery cable from battery.
3. Undo 4x5/16" bolts from brackets holding top posts of radiator and remove.
4. Remove 2x5/16" bolts holding top of shroud to top of radiator. Undo outlet hose strap from shroud (**Fig. 1**)
5. Pull top of radiator toward grille and lift front section of shroud. **NOTE: The bottom of this shroud piece has a rubber flap that may need to be lifted out of the way to move front section of shroud up and out.**



Fig. 1

2

Remove Stock Fan and Rear Shroud Assembly

1. Unplug clutch fan connector at the top of the rear shroud section closest to engine.
2. Remove 4x15mm bolts holding rear shroud to the engine.
3. Pull rear shroud forward to access the nut attaching the clutch fan.
4. Secure the clutch fan pulley with a pry bar and loosen nut with a large adjustable wrench.
5. Remove the rear shroud and clutch fan assembly at the same time from the engine compartment.

3

Assemble and Install Flex-a-Lite® Fan Shroud

1. Place fan shroud on flat work surface.
2. Attach top mounting brackets to shroud through upper mounting holes with included washers and bolts.
2. Attach bottom bracket to shroud with remaining hardware. Tighten bracket so the hardware sits roughly in the middle of the obround slot. If the shroud either fits loose or will not go on, this can be adjusted.
3. Slide bottom bracket into loops on bottom of radiator at an angle (**Fig. 2**). Place top brackets over radiator posts and slide down until firmly positioned.

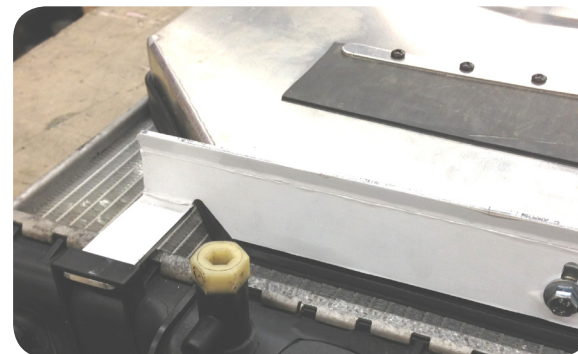


Fig. 2

4

Mount and Install Clutch Fan Emulator

1. Mount emulator facing down on bracket #51313 with supplied screws.
 2. Bolt bracket to factory mounting location near windshield. (**Fig. 3**)
 3. Plug emulator directly into factory fan clutch socket.
- DO NOT CONNECT ANYTHING INTO THE EMULATOR BESIDES THE FACTORY FAN CLUTCH SOCKET**



Fig. 3

Fan Wiring Instructions

FOLLOW THESE INSTRUCTIONS CAREFULLY TO AVOID DAMAGING THE CONTROL UNIT, FAN MOTORS AND YOUR VEHICLE! WHEN CRIMPING WIRES, ALWAYS USE A QUALITY CRIMPING TOOL (DO NOT USE PLIERS OR OTHER DEVICES).

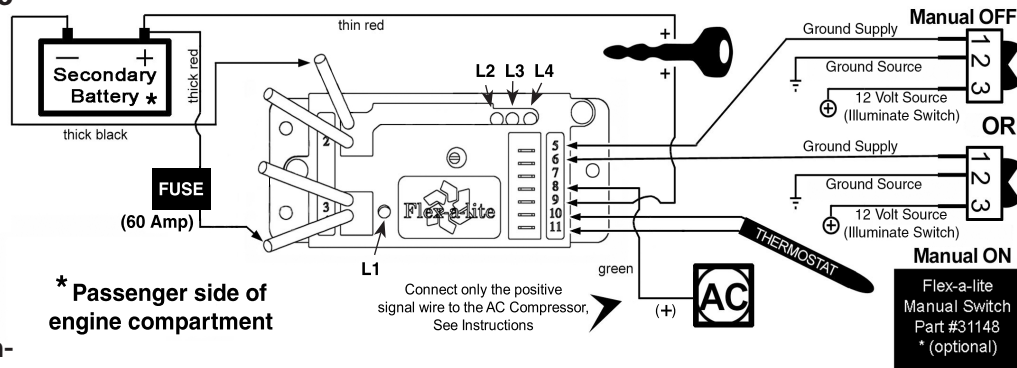
5

Controller Wiring

The fan motors are already wired to the Variable Speed Control unit (VSC) for you.

Find the thick black wire in the kit. Determine the length of black wire needed to reach from the negative (-) battery terminal to the short black wire on the VSC and cut it to length. Attach a ring connector to one end and use a yellow insulated butt connector to connect the other end to the black wire on the VSC.

NOTE: On Fan Kit #274 the VSC is pre-wired to the fans for ease of installation, while Fan Kit #275 does not come with a VSC. Verify that the pre-wired components are mounted securely, then proceed to connect the remaining wires necessary for your install.



6

Connect Fuse Holder

Locate the fuse holder. **DO NOT INSTALL THE FUSE UNTIL ALL THE WIRING IS COMPLETE.** Attach a 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 secondary 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.

7

Ignition-controlled Power Source

Locate the fuse box. Find a circuit that is "hot" when the key is in the "ON" position.

NOTE: DO NOT use the DRL, PCM, Fuel pump, ignition / transmission control or tail-light fuse! Attach the included fuse tap to the fuse. Attach a pink female connector to the thin red wire included and connect to the fuse tap. Trim the wire so that it will reach the VSC. Attach a pink female connector to the end of the wire and connect to terminal "#9" on VSC.

Locate the wires going to the A/C clutch. Connect the signal wire to the supplied thin green wire by use of a piggyback connector. Determine length needed to reach VSC and trim the wire to length. Attach a pink female connector and connect this wire to terminal "#8".

8

Reassemble And Test

1. Insert temp. probe near radiator inlet, leaving 1/4" of the wired end of the probe sticking out from the core. **Be careful not to damage radiator core.**
2. Install fuse into fuse holder and turn Ignition on. If LED "L4" does not turn on after 6 seconds, check 12V power going to terminal "#9".
3. With engine running, turn A/C on. The fan should be running and LEDs "L1", "L3" and "L4" should be lit. If not, verify A/C clutch is engaged and correct signal wire is triggered.

9

What's Next?

Register your product for warranty at <http://automotive.flex-a-lite.com/warranty-registration/>

Enjoy your Flex-a-lite performance cooling product!

If you need further assistance, please contact tech services at 253-922-2700 M-F 8:00am-5:00pm PST.

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.

4. Turn A/C off. Let vehicle warm up to normal operating temperature. Adjust screw terminal clockwise to increase turn-on temperature and counter-clockwise to decrease temperature. **NOTE: THE SCREW TERMINAL ONLY ROTATES 3/4 OF A TURN. IF TURNED BEYOND ITS LIMITS THE TERMINAL WILL BREAK!**

5. Once desired temperature is set, let the engine idle and make sure the fan cycles to maintain desired temperature. Make sure the fan is pulling air through the radiator toward the engine.

6. Reassemble vehicle.