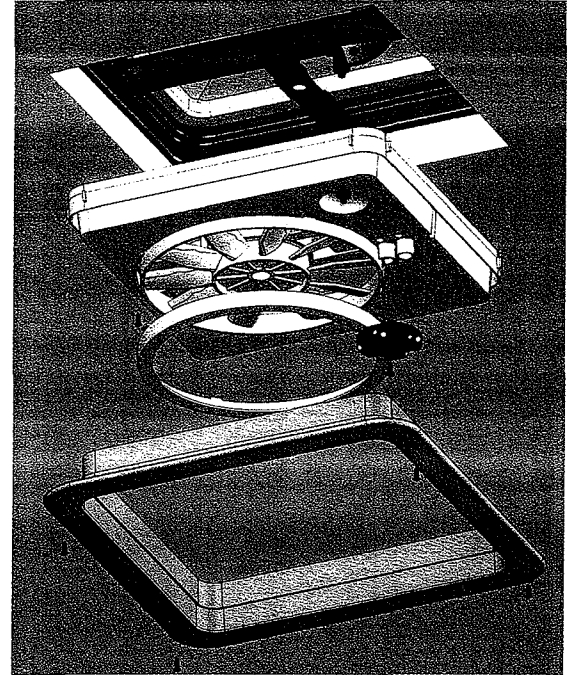
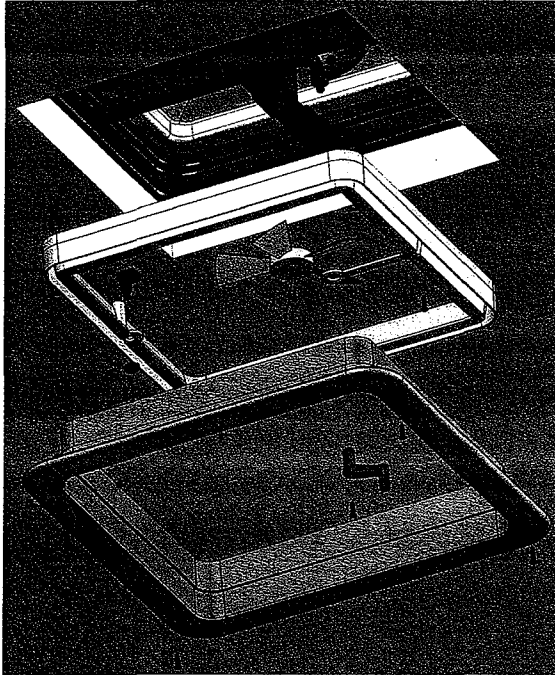


Installing a new vortex fan is a snap! Just follow these easy steps.



Removing the old fan...

1. Read all instructions carefully before starting
2. Remove garnish (4 or more screws)
3. Remove crank handle (1 screw)
4. Remove fan switch retainer (turn counterclockwise)
5. Remove screen frame (2 screws)
6. Remove plastic fan from motor (pull firmly)
7. Remove fan motor (2 screws)
8. Separate fan/switch wires from RV leads (remove wire nuts)

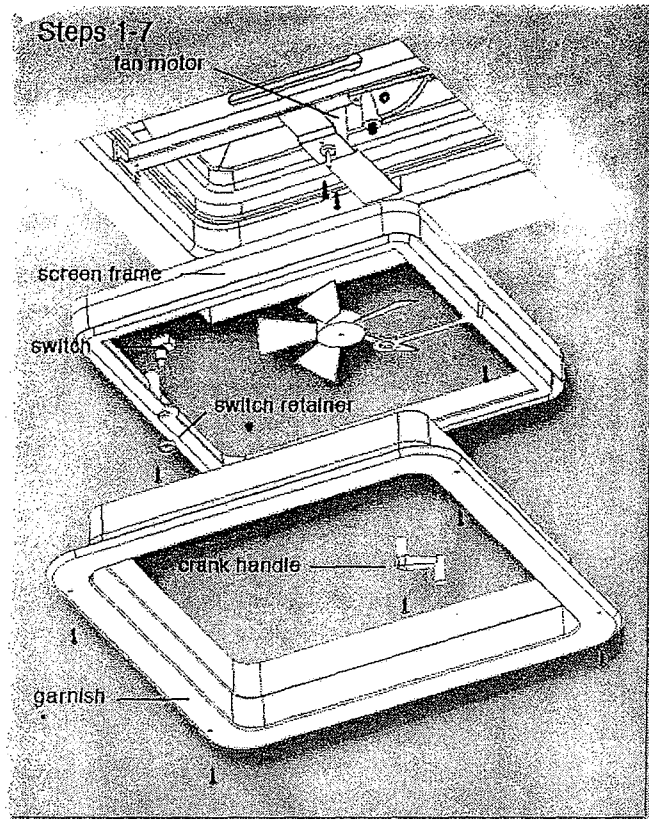
Install the vortex fan!

9. Attach wire leads with wire nuts (*NOTE: if upgrading a non-power vent, provide power source of 12 volts DC, using 18 gauge wire.*)
10. Secure Vortex unit onto vent frame (2 screws), making certain the crank spindle is properly aligned and seated in the mating gear drive. Use knob to rotate gear drive to achieve alignment (*NOTE: Adjustment of the gear drive is necessary for use with a Jensen or Ventline. Read instructions included inside for details*)
11. Secure gear drive to spindle screw
12. Make certain wires are tucked out of the way of fan (fan can be easily removed with included wrench)
13. Attach screen frame, inserting 4 tabs and rotating clockwise until tight
14. Attach knob with screw
15. Replace original garnish

vortex
by HONG'S Industries

Heng's Industries
3500 Lexington Park Dr.
Elkhart, IN 46514

Vortex Roof Vent Conversion Kit



The Vortex conversion kit is intended to be used on existing Elixir, Jensen or Ventline roof vents with factory 12 volt fans. This kit can also be used on non-powered versions of the brands listed above; however, you will need to provide 12 volt, 18 gauge electrical power to the roof vent opening. All modifications are made to the interior portion of the vent; no modifications are required on the roof.

Installation Instructions

NOTE: Read all instructions carefully before starting.

- 1) Remove garnish (four or more screws), save for re-installation later.
- 2) Remove crank handle (one screw).
- 3) Remove fan switch retainer (turn counterclockwise).
- 4) Remove screen frame (two screws) and pull free of fan switch.
- 5) Remove plastic fan from motor (pull firmly).
- 6) Remove fan motor (two screws).
- 7) Separate fan motor and switch wires from RV power by removing two wire nuts; remove fan motor, switch and connected wires. For converting an Elixir vent, skip to step 10.

8) For converting a Ventline only: Unscrew (two screws) and move the Gear Drive to alternate position as shown in Figure 1. Re-install two screws in new position.

9) For converting a Jensen only: Unscrew (two screws) and move the Gear Drive to alternate position and insert provided spacer as shown in Figure 2. Re-install two screws in new position.

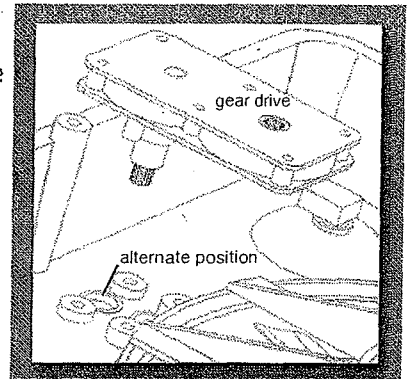


Figure 1 (Ventline only)

- 10) Hold Vortex unit near ceiling and attach Vortex wire leads (two) to RV power using two wire nuts.
- 11) Secure Vortex unit onto vent frame (two screws), making certain the crank spindle is properly aligned and seated in the mating Gear Drive (if necessary, use Knob to rotate gears to achieve alignment).
- 12) Secure Gear Drive to spindle with screw.

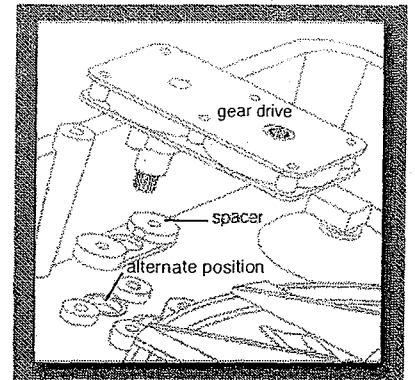
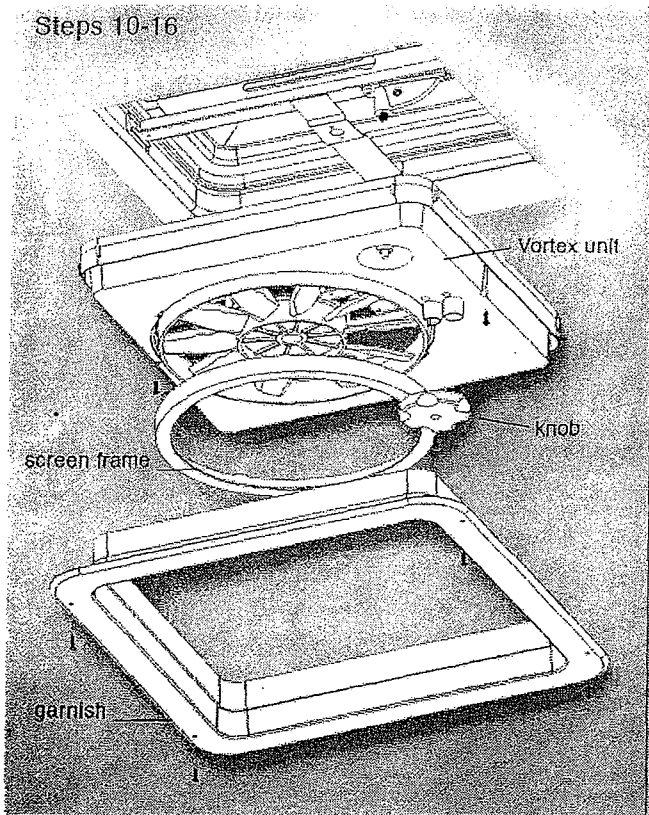


Figure 2 (Jensen only)

- 13) Make certain wires are tucked out of way of Fan (if necessary, Fan can be easily removed with included wrench for easier access).
- 14) Attach Screen Frame, inserting 4 tabs and rotating clockwise until tight.
- 15) Attach Knob with screw.
- 16) Replace original garnish and screws



Heng's Industries
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 Elkhart, IN 46514