



POWER VENTILATOR AND SWITCH ASSEMBLY

PART NO. 3107316.006

FOR SINGLE DOOR ABSORPTION REFRIGERATORS

Patent No. 5355693

This Assembly Contains:

Qty.	Part No.	Description
(1)	3104132.000	Ventilator Fan, 12V DC
(1)	3104133.008	Fan Limit Switch, 12V DC
(2)	312096.002	Screw #6 x 3/8
(2)	3102096.001	Screw #10 x 3.8
(1)	3105432.003	Mounting Bracket, RH
(1)	3105432.011	Mounting Bracket, LH
(1)	3105503.005	Fuse Holder and Fuse (1 amp)
(2)	3102096.025	Screw, #6 x 1-1/2
(1)	3107303.004	Installation Instructions
(1)	303937.856	Wire Assembly, Red
(1)	3107315.008	Switch Assembly
(1)	3107314.001	Quick Dry Epoxy

THIS ASSEMBLY SHOULD BE INSTALLED BY A QUALIFIED SERVICE PERSON WHO IS FAMILIAR WITH ELECTRICAL WIRING.

PURPOSE:

This Power Ventilator and Switch Assembly is for use with Dometic's single-door refrigerators in applications where existing minimum vent heights are restricted. Its purpose is to assist required air movement across the refrigerator condenser to ensure optimum performance.

The switch mechanism allows the customer to turn off power to the ventilator fan when the vehicle is not being used to ensure that the vehicle battery is not depleted due to the automatic operation of the fan.

GENERAL INSTRUCTIONS:

Read and understand these instructions before proceeding.



Disconnect all electrical power before starting your power ventilator installation.

These instructions are only supplemental. If your refrigerator has not yet been installed, do so per the product installation instructions. Make sure that you follow N.E.C., state and local code requirements that are referenced in your original installation instructions. Follow the compartment sealing instructions as indicated in your instruction packet.

SWITCH INSTALLATION:

1. Locate an accessible position for the 12V DC switch in cabinet just above or beside the refrigerator door. A location near the left, upper corner is recommended.
2. Cut a rectangular hole (.550 x 1.125) so that the 12V DC switch can be installed. **Do not cut the hole larger than necessary or the switch will not be retained.**
3. Attach the enclosed red wire assembly and the red wire from the fuse assembly (wire with 1/4 terminal) to switch. Route wires through the opening and install the switch. **Be sure that wires extend to the rear of the refrigerator compartment.**

VENTILATOR FAN INSTALLATION (A or B):

1. Install fan limit switch to the refrigerator per location requirements and dimensions given in FIG. 1.
 - A. Screws: Use care when drilling two (2) .110 (7/64") diameter holes for the #6 x 3/8" screw attachment.
 - B. Epoxy: A quick-drying epoxy has been provided to attach the fan switch to the condenser fin. **Be sure you are ready to install the switch when mixing the epoxy since it will set in 3-5 minutes.** Place the epoxy on the switch around the screw locations. Place the switch on the condenser in the proper location and hold in place until set. Add additional epoxy as necessary. Allow 15-20 minutes dry-time before attachment of 1/4 quick connect terminals.

NOTE

Take caution to ensure epoxy is not placed on the sensing part of the limit switch.

2. Install air baffle the width of the refrigerator cavity. This should extend to the bottom edge of the condenser fins. See FIG. 1A.
3. Install mounting brackets to ventilator fan per FIG. 1A, with #6 x 1-1/2" screws provided.
4. Install fan in upper vent as shown in FIG. 1A (**NOTE: Ensure that air flow is pointing outward.**) Fan should be located facing outside wall structure, centered to vent opening.

INSTALLATION THROUGH LOWER VENT:

5. Remove fuse in fuse holder and store in safe location for later installation.
6. Route fuse holder base red wire (shortest wire) to the 12V DC+ (positive) connection on the incoming side of the refrigerator terminal. **DO NOT REINSTALL FUSE AT THIS TIME).**

7. Route red wire assembly with fuse body from ON/OFF switch near the previously removed fuse connection.
8. Take the other red wire assembly from the ON/OFF switch and attach to the fan limit switch.
9. Take the red wire attached to the ventilator fan and route to the remaining terminal at the fan limit switch.
10. Take the black wire from the ventilator fan and route to the 12V DC- (negative) connection on the incoming side of the refrigerator terminal block.
11. Ensure that all wiring is held securely and will not come in contact with a sharp edge or hot surface.
12. Install fuse within fuse holder.
13. The power ventilator will be energized by the fan limit switch when the temperature elevates above 95° ambient. This system will operate automatically with the fluctuation of the condenser temperature when the 12V DC switch has been turned on.
14. When refrigerator is not in operation, turn switch to "OFF" position to avoid depleting the battery.

FIG. 1

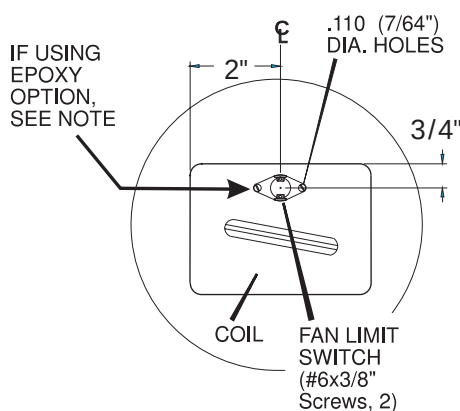


FIG. 1A

