



POWER VENTILATOR/SWITCH ASSEMBLY PART NO. 3108705.744

For Two Door Absorption Refrigerators

PATENT NO. 5355693

This Assembly Contains:

(Qty)	(Part No.)	(Description)
(1)	3107930.004	Ventilator fan, 12V DC
(1)	3104133.016	Fan Limit Switch, 12V DC
(1)	3107236.006	Ventilator Switch
(2)	3108706.858	Screw, #8x3/8 Drill Point
(1)	3105432.003	Mounting Bracket, RH
(1)	3105432.011	Mounting Bracket, LH
(1)	315503.005	Fuse Holder and Fuse (1 amp)
(2)	3108710.033	Screws, #8 x 2"
(1)	3107649.042	Installation Instructions
(1)	3105433.019	Wiring Diagram Decal
(2)	312096.001	Screws, 10-16 x .38

Parts Supplied by Installer: (Through-the-Floor)

(1)	Varmit Screen
(1)	Fabricated Duct Extension

WARNING

These instructions must be read and understood before installation of this kit. This kit must be installed by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

PURPOSE:

This Power Ventilator Assembly is for Dometic's six (6) cubic foot or larger refrigerators with multiple venting applications. Its purpose is to assist required air movement across the refrigerator condenser to ensure optimum performance.

The ventilator switch will work on any Dometic model refrigerator equipped with the AES & AMES control system. Its purpose is to disable the ventilator fan when the refrigerator has been turned off for storage. This will prevent the fan from accidentally coming on during high ambient conditions and draining the house battery.

Note: Install the ventilator switch after power ventilator assembly installation.

GENERAL INSTRUCTIONS:

These instructions are supplemental to the refrigerator installation instructions.

Important:

- **The Power Ventilator Assembly must be used with certified upper and lower side vents.**
- **Install refrigerator in accordance with the installation instructions supplied with the refrigerator.**
- **Follow the N.E.C., state and local code requirements referenced in the product installation instructions.**
- **Comply with the compartment sealing instructions indicated in the instructions packet.**

Select the option which suits your specific application. Follow Power Ventilator Assembly instructions for that specific application.

OPTION 1: Through-The-Floor Vent Installation with Upper Roof Vent

OPTION 2: Upper and Lower **Plastic** Side Vents

OPTION 3: Side-By-Side Refrigerator with Upper and Lower **Plastic** Side Vents

REVISION

Form No. 3107649.042 2/01

(Replaces 3107649.034)

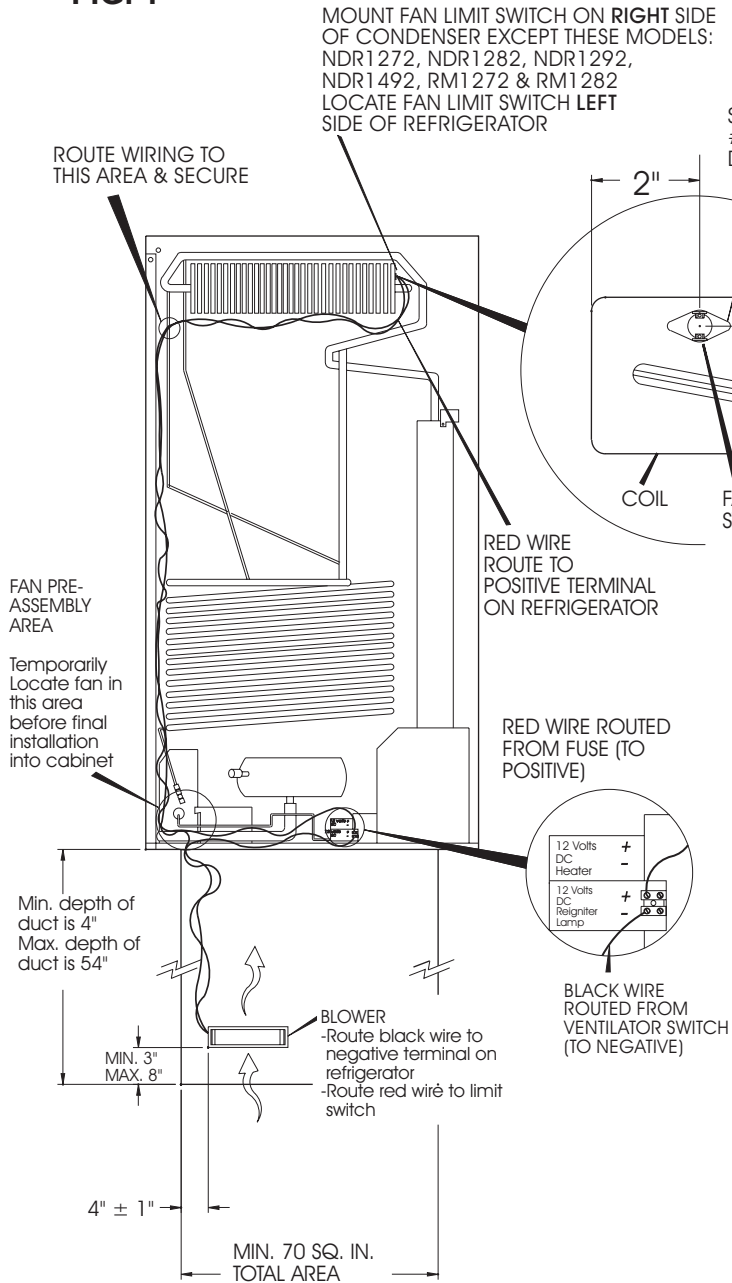
(French 3109734.016)

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LaGrange, IN 46761

OPTION 1: Through-The-Floor Vent Installation with Upper Roof Vent

FIG. 1



Closes 150°F/Opens 130°F ±10°

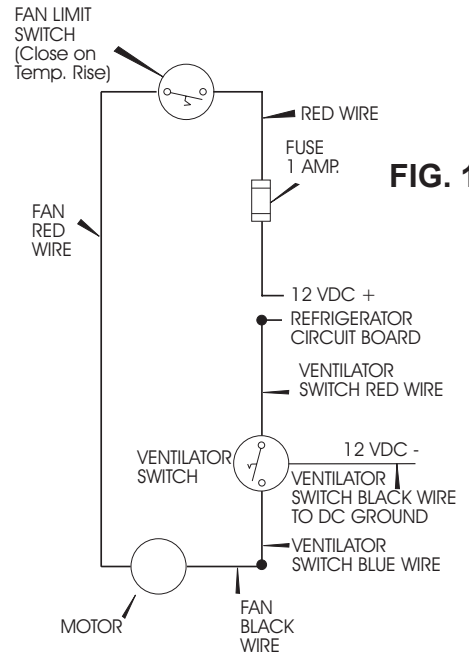
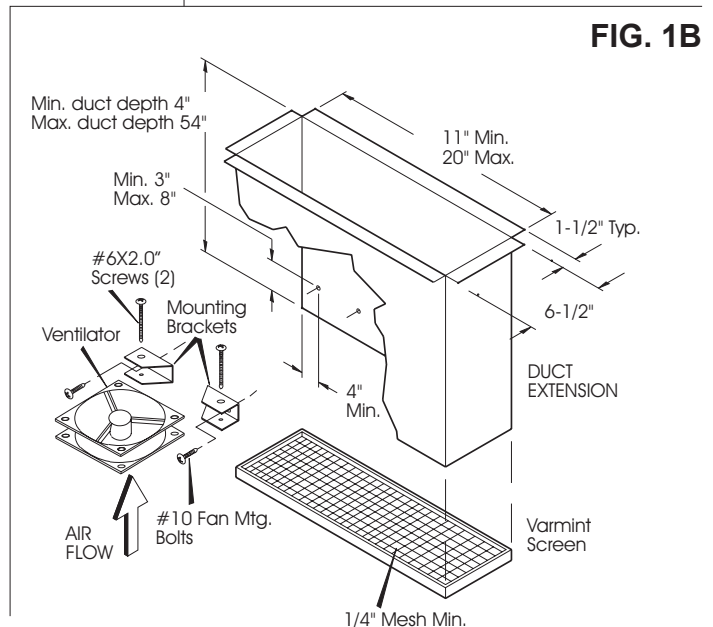


FIG. 1A

FIG. 1B



OPTION 1: REFRIGERATOR ACCESS REQUIREMENT (REAR)

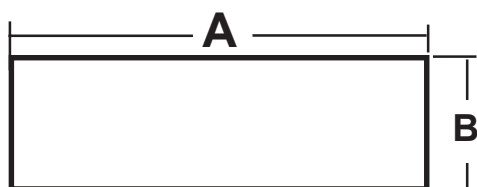
Important: Power Ventilator Assembly must be used with certified upper roof vent and the refrigerator must be installed as directed by the installation instructions supplied with the refrigerator.

REFRIGERATOR ACCESS (REAR)

With the use of this Kit in conjunction with below-floor ventilation, a sealed access panel is required. Access is necessary to complete the installation, to perform gas leak tests, and to perform periodic maintenance. If the access is located within an interior wall, it must be completely sealed from the living space.

If the refrigerator is placed along the sidewall and floor ventilation is provided, rear access is required. This door or panel should prevent water entry. The following are minimum sizes allowed for each series refrigerator.

TABLE 1 MODEL SERIES	ACCESS PANEL DIMENSION	
	A	B
RM3662, RM3663 RM3862, RM3863, NDR1062	22"	14"
NDR1272, NDR1282, NDR1292, NDR1492, RM1272, RM1282,	36"	16"



OPTION 1: POWER VENTILATOR INSTALLATION

! WARNING

Disconnect 115 volt AC and 12 volt DC. Failure to follow these instructions could create a shock hazard causing death or severe personal injury.

Note: Install fan limit switch prior to refrigerator installation.

1. Use the (2) #8X3/8" self drilling screws (supplied) to install fan limit switch to refrigerator. See FIG. 1 for fan limit switch location and dimensions.
2. Attach red wire from fan motor to one terminal of the fan limit switch. Route the wire along the side of the refrigerator as shown in FIG. 1.

Note: Route wire away from sharp edges and hot

surfaces.

3. Attach red wire with fuse holder to the remaining terminal of the fan limit switch. Route the wire along the side of the refrigerator as shown in FIG. 1.

Note: Route wire away from sharp edges and hot surfaces.

4. Remove the fuse from fuse holder and store in safe location for later installation.
5. Install mounting brackets to ventilator fan using the #8 x 2" screws provided. See FIG. 1B.
6. Install refrigerator according to installation instructions supplied with refrigerator.

Note: Completion of the Power Ventilator Assembly installation will be made through the rear access panel. See Table 1.

7. Connect the short red wire (fuse holder base) to the refrigerator terminal block labeled +12V DC. See FIG. 1.

Note: Do Not install fuse at this time.

8. Install fan in through-the-floor vent (use predrilled mounting holes) as shown in FIG. 1 & 1B.

Note: Ensure that air flow arrow on fan is pointing upward.

9. Install Ventilator Switch. Follow installation instruction on page 8.
10. Inspect all wiring. Ensure wiring is secure and will not contact sharp edges and hot surfaces.
11. Attach wiring diagram form kit beside existing wiring diagram on refrigerator.
12. Install varmit screen as shown in FIG 1B.
13. Complete additional installation instructions stated in the instructions supplied with the refrigerator.
14. Install fuse within fuse holder.
15. The power ventilator is now functional. The fan limit switch will energize the fan when ambient temperatures exceed 100° F. This system will operate automatically with the fluctuation of the refrigerator's condenser temperatures.

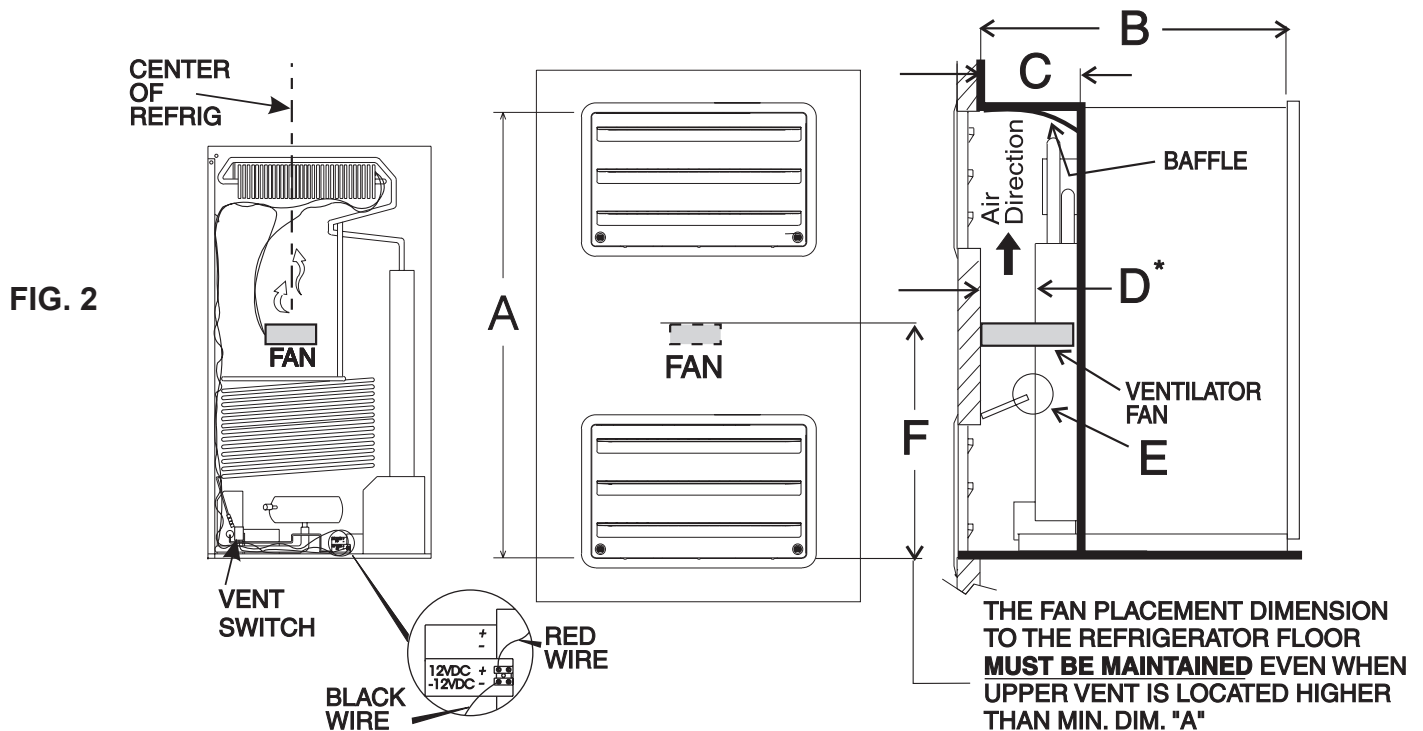
THIS SECTION COVERS DOMETIC'S 6FT., 8FT AND 10 FT. REFRIGERATOR MODELS

OPTION 2: Upper and Lower Plastic Side Vents Use Only on Models in Table 2.

TABLE 2

(Dimensions in Inches)

Model No.	Min. Dim. A	Min. Dim. B	Min. Dim. C	Max. Dim. C	Max. Dim. D*	Max. Dim. E	F
RM3662	53	24-5/8	5-1/8	8	3-1/2	1	38-1/2
RM3663	53	24-5/8	5-1/8	8	3-1/2	1	38-1/2
RM3862	61	24-5/8	5-1/8	8	3-1/2	1	45-1/2
RM3863	61	24-5/8	5-1/8	8	3-1/2	1	45-1/2
NDR1062	61	24-5/8	5-1/8	8	3-1/2	1	45-1/2



* When dimension "D" exceeds 1", it may be necessary to add baffle/s above lower access vent, as shown, for more efficient operation in warm temperatures.

OPTION 2: POWER VENTILATOR INSTALLATION



Disconnect 115 volt AC and 12 volt DC. Failure to follow these instructions could create a shock hazard causing death or severe personal injury.

1. Use the (2) #8X3/8" self drilling screws (supplied) to install fan limit switch to refrigerator. See FIG. 1 for fan limit switch location and dimensions.
2. Attach red wire from fan motor to one terminal of fan to the limit switch. Route the wire along the side of the refrigerator as shown in FIG. 2.
Note: Route wire away from sharp edges and hot surfaces.
3. Attach red wire with fuse holder to the remaining terminal of the fan limit switch. Route the wire along the side of the refrigerator as shown in FIG. 2.
Note: Route wire away from sharp edges and hot surfaces.
4. Remove the fuse from fuse holder and store in safe location for later installation.
5. Install mounting brackets to ventilator fan using the #8 x 2" screws provided. See FIG. 1B.
6. Install refrigerator according to installation instructions supplied with refrigerator.
Note: Completion of the Power Ventilator Assembly installation will be made through the rear access panel. See Table 2.

7. Connect the short red wire (fuse holder base) to the refrigerator terminal block labeled +12V DC.
See FIG. 2.
Note: Do Not install fuse at this time.
8. Install fan as shown in FIG. 2.
Note: Ensure that air flow arrow on fan is pointing upward.
9. Install Ventilator Switch. Follow installation instructions on page 8.
10. Inspect all wiring. Ensure wiring is secure and will not contact sharp edges and hot surfaces.
11. Attach wiring diagram form kit beside wiring diagram on refrigerator.
12. Complete additional installation instructions stated in the installation instructions supplied with the refrigerator.
13. Install fuse within fuse holder.
14. The power ventilator is now functional. The fan limit switch will energize the fan when ambient temperatures exceed 100° F. This system will operate automatically with the fluctuation of the refrigerator's condenser temperatures.

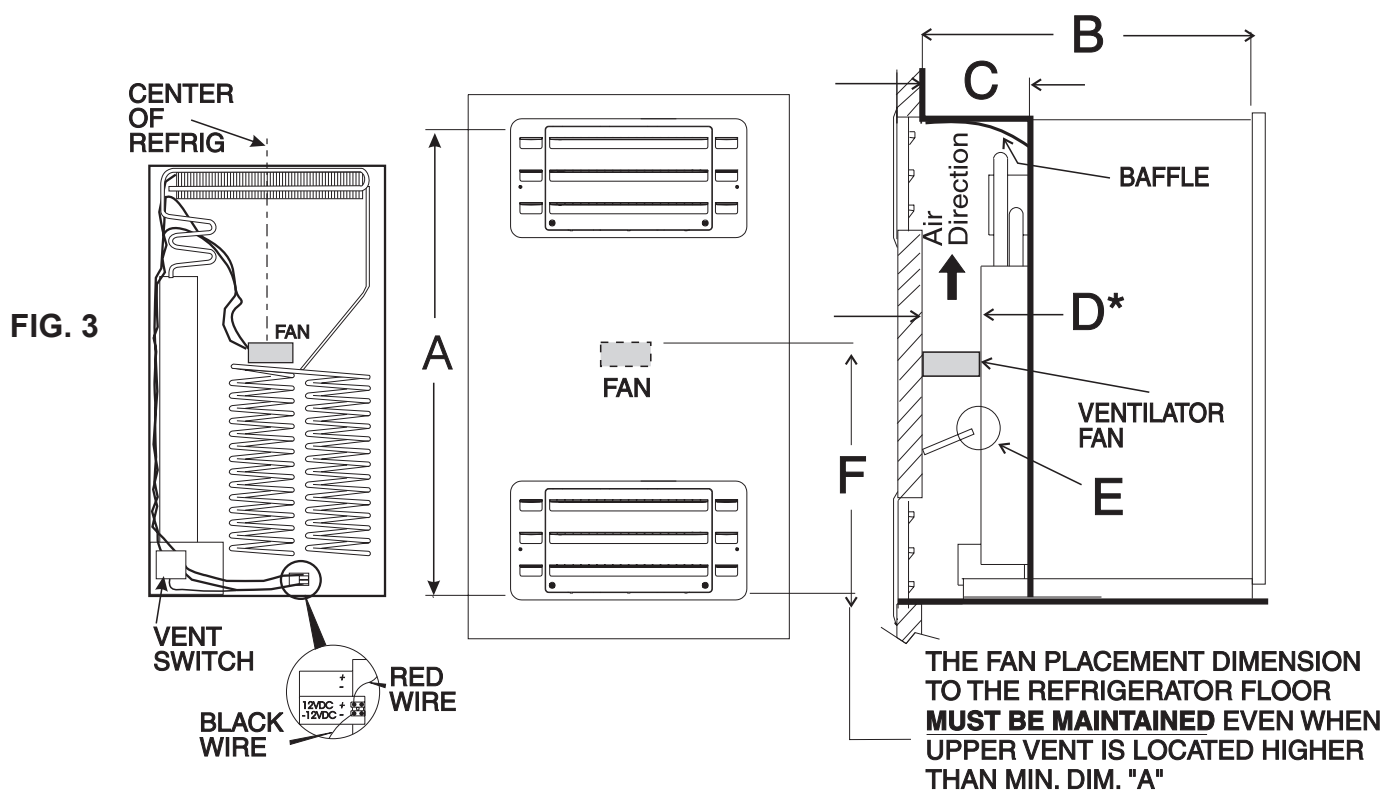
THIS SECTION COVERS DOMETIC'S SIDE-BY-SIDE REFRIGERATOR MODELS

OPTION 3: Side-By-Side Refrigerator with Upper & Lower Plastic Side Vents Use Only on Models in Table 3.

Important: Power Ventilator Assembly must be used with certified upper and lower side vents and the refrigerator installed per dimensions in Table 2 below. For additional installation information, see the Installation Instructions supplied with the refrigerator.

TABLE 3
(Dimensions in Inches)

Model No.	Min. Dim. A	Min. Dim. B	Min. Dim. C	Max. Dim. C	Max. Dim. D*	Max. Dim. E	F
RM1272	63	24-7/8	5-1/8	8	3-5/8	1	44-1/2
RM1282	63	24-7/8	5-1/8	8	3-5/8	1	44-1/2
NDR1272	63	24-7/8	5-1/8	8	3-5/8	1	44-1/2
NDR1282	63	24-7/8	5-1/8	8	3-5/8	1	44-1/2
NDR1292	63	24-7/8	5-1/8	8	3-5/8	1	44-1/2
NDR1492	63	24-7/8	5-1/8	8	3-5/8	1	44-1/2



* When dimension "D" exceeds 1", it may be necessary to add baffle/s above lower access vent, as shown, for more efficient operation in warm temperatures.

OPTION 3: POWER VENTILATOR INSTALLATION

WARNING

Disconnect 115 volt AC and 12 volt DC. Failure to follow these instructions could create a shock hazard causing death or severe personal injury.

Important: Power Ventilator Assembly must be used with certified upper and lower side vents and the refrigerator installed per dimensions in Table 3. For additional installation information, see the Installation Instructions supplied with the refrigerator.

Note: Install fan limit switch prior to refrigerator installation. See FIG. 1 on Page 2.

1. Use the (2) #8X3/8" self drilling screws (supplied) to install fan limit switch to refrigerator. See FIG. 1 for fan limit switch location and dimensions.
3. Install refrigerator according to installation instructions supplied with the refrigerator.
Note: Completion of the Power Ventilator Assembly installation will be made through access panel (lower vent)
4. Install mounting brackets to ventilator fan using the #8 x 2" screws provided. See FIG. 1B.
5. Install fan as shown in FIG. 3.
Note: Ensure that air flow arrow on fan is pointing upward. Screws mount through fan into sidewall (adequate support is required).
6. Attach red wire from fan motor to one terminal of fan limit switch.
Note: Route wire, as shown in FIG. 3, away from sharp edges and hot surfaces.
7. Attach red wire with fuse holder to the remaining terminal of fan limit switch. Route the wire along side of refrigerator as shown in FIG. 3.
Note: Route wire away from sharp edges and hot surfaces.

8. Remove fuse from fuse holder and store in safe location for later installation.
9. Connect the short red wire (fuse holder base) to the refrigerator terminal block labeled +12V DC. See FIG. 3.
Note: Do Not install fuse at this time.
10. Install Ventilator Switch. Follow installation instructions on page 8.
11. Inspect all wiring. Ensure wiring is secure and will not contact sharp edges and hot surfaces.
12. Complete additional installation instructions stated in the installation instructions supplied with the refrigerator.
13. Install fuse within the fuse holder.
14. Attach wiring diagram from kit beside existing wiring diagram on refrigerator.
15. The power ventilator is now functional. The fan limit switch will energize the fan when ambient temperatures exceed 100° F. This system will operate automatically with the fluctuation of refrigerator's condenser temperatures.

VENTILATOR SWITCH INSTALLATION

VENTILATOR SWITCH INSTALLATION INSTRUCTIONS

1. Remove screw from top of power module cover and remove cover.
2. Disconnect **RED** wire from J2 location. Remove plastic insulator with care.
3. Re-use plastic insulator (just removed) on right-angled female terminal of **RED** wire found on ventilator switch. See FIG. 2.
4. Place **RED** wire from ventilator switch (now with insulator) to J2 of power module. See FIG. 1.
5. Insert original **RED** wire from J2 into insulated terminal and protect with electrical tape.
6. Reinstall module cover and screw back into position.
7. Attach **BLACK** wire of ventilator switch to ground terminal block. (See Note, FIG. 1)
8. Attach **BLUE** wire of ventilator switch to ground lead of fan using crimp terminal or wire nut (not supplied). See FIG. 1.
9. Remove protective paper from adhesive strip on back of ventilator switch and press into place in convenient location.

Note: Do not insert additional wires into the main ground connection block with the existing power wire. Connections can be made to the terminal strip if necessary.

FIG. 4

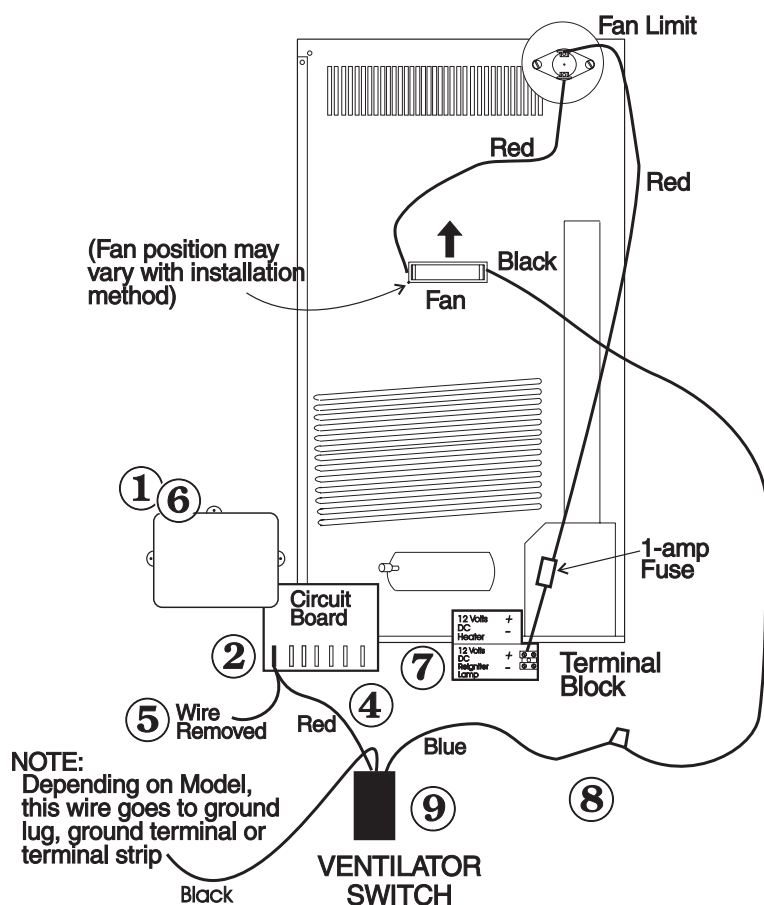


FIG. 5

Ventilator Switch

