



The Sign of Comfort

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**POWER VENTILATOR ASSEMBLY
PART NO. 3108709.119
For Americana & Freedom Series
Absorption Refrigerators
PATENT NO. 5355693**

INSTALLATION INSTRUCTIONS

**Power
Ventilator Asm.
3108709.119**

SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions.

UNDERSTAND SIGNAL WORDS

A signal word, **WARNING OR CAUTION** is used with the safety-alert symbol. They give the level of risk for potential injury.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

CAUTION used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided may result in property damage.

Read and follow all safety information and instructions.

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.

This Assembly Contains:

(Qty)	(Part No.)	(Description)
(1)	3107930.004	Ventilator fan, 12V DC
(1)	3104133.016	Fan Limit Switch, 12V DC
(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)	3309102.006	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
(2)	Wire Connectors

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

A. OPTION 1: THROUGH-THE-FLOOR VENT INSTALLATION WITH UPPER ROOF VENT

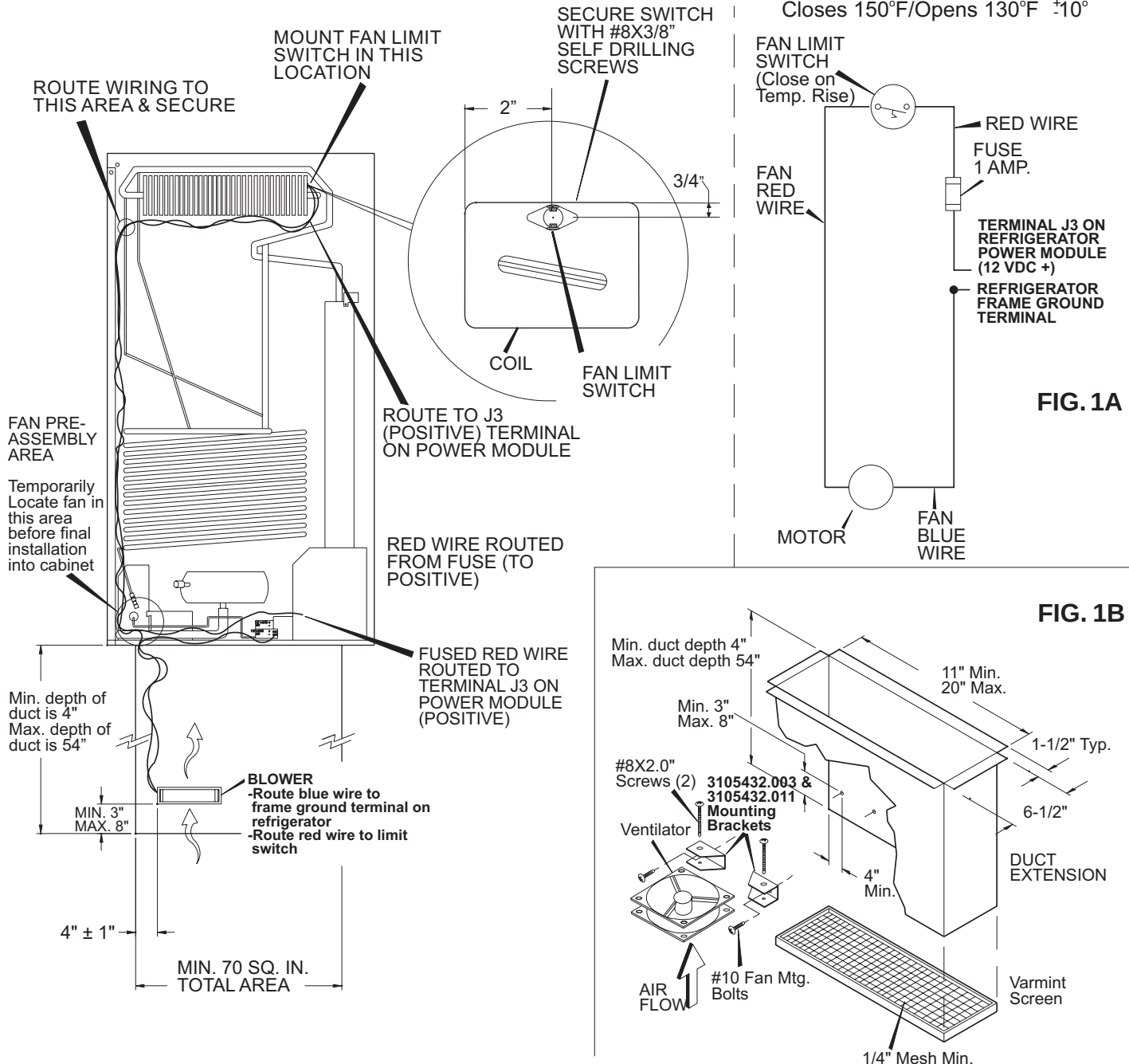
Important: Power Ventilator Assembly must be used with certified upper roof vent and the refrigerator must be installed as directed by the installation instructions supplied with the refrigerator.

1. 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.

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

FIG. 1



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.

2. 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.

- See FIG. 1 for switch location.
- Use the (2) #8X3/8" self drilling screws (supplied) to install fan limit switch to refrigerator.
- 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.

- 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.

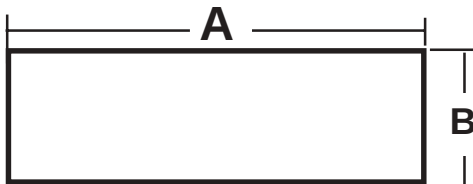
Note: Route wire away from sharp edges and hot surfaces.

- Remove the fuse from fuse holder and store in safe location for later installation.

TABLE 1

MODEL SERIES	ACCESS PANEL DIMENSION	
	A	B
RM2620, RM2652, RM2662 RM2663, RM2852, RM2862	22"	14"

(Dimensions are in inches)



- Connect the blue wire on the fan to the refrigerator negative terminal. See FIG. 1.
- Install mounting brackets to ventilator fan using the two #8 x 2" screws provided. See FIG. 1B.
- 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.

- Connect the short red wire (fuse holder base) to the refrigerator power module J3 terminal (+12V DC). See FIG. 1.

Note: Do Not install fuse at this time.

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

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

- Inspect all wiring. Ensure wiring is secure and will not contact sharp edges and hot surfaces.
- Attach wiring diagram form kit beside existing wiring diagram on refrigerator.
- Install varmit screen as shown in FIG 1B.
- Complete additional installation instructions stated in the instructions supplied with the refrigerator.
- Install fuse within fuse holder.
- 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.

B. OPTION 2: REFRIGERATOR WITH UPPER AND LOWER PLASTIC SIDE VENTS

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.

Note: Use Only on Models in Table 2.

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.

- See FIG. 1 for switch location.
- Use the (2) #8X3/8" self drilling screws (supplied) to install fan limit switch to refrigerator.
- 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.

- 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.

- Remove the fuse from fuse holder and store in safe location for later installation.
- Connect the blue wire on the fan to the refrigerator negative terminal. See FIG. 1.
- Install mounting brackets to ventilator fan using the two #8 x 2" screws provided. See FIG. 1B.
- 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.

- i. Connect the short red wire (fuse holder base) to the refrigerator power module J3 terminal (+12V DC). See FIG. 2.

Note: Do Not install fuse at this time.

- j. Install fan as shown in FIG. 2.

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

- k. Inspect all wiring. Ensure wiring is secure and will not contact sharp edges and hot surfaces.
- l. Attach wiring diagram form kit beside wiring diagram on refrigerator.

- m. Complete additional installation instructions stated in the installation instructions supplied with the refrigerator.
- n. Install fuse within fuse holder.
- o. 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.

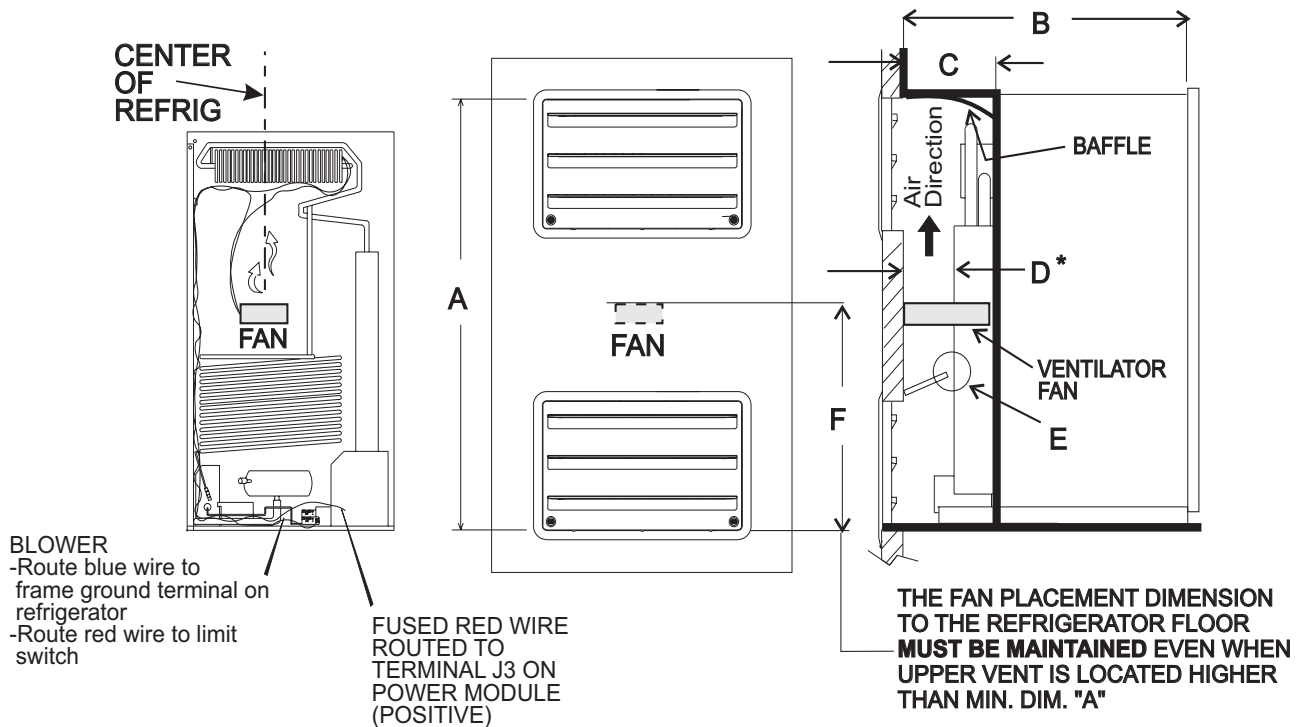
OPTION 2: Upper and Lower Plastic Side Vents Use Only on Models in Table 2.

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
RM2620	49	24-7/8	5-1/8	8	4-1/4	1	34-1/2
RM2652	53	24-5/8	5-1/8	8	3-1/2	1	38-1/2
RM2662	53	24-5/8	5-1/8	8	3-1/2	1	38-1/2
RM2663	53	24-5/8	5-1/8	8	3-1/2	1	38-1/2
RM2852	61	24-5/8	5-1/8	8	3-1/2	1	45-1/2
RM2862	61	24-5/8	5-1/8	8	3-1/2	1	45-1/2

FIG. 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.