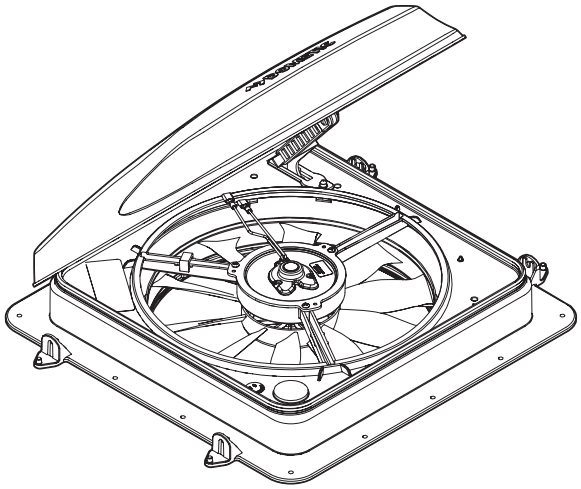
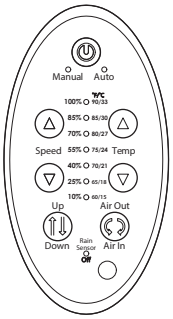
DOMETIC

FAN-TASTIC VENT FAN





3300, 3350, 4100, 4150, 4175, 4200 RJ-11, 4201, 4251, 4301, 4351

5200, 5250, 5300, 5350, 6300, 6350, 7300, 7350

Fan-Tastic Vent Fans and Controls

Installation and Operation Manual

Attention Consumers: This product is intended to replace an existing vent fan in your RV. If you are creating a new installation or planning a more complicated project, please consult a qualified service professional.

The installation location should be:

• 14.5 x 14.5 in. (368 x 368 mm)	To create or adjust the opening, consult a qualified service professional.
• 4 in. (102 mm) depth or greater	Contact Dometic for location depths less than 4 in.
• Non-corrugated	Create a level platform or consult a qualified professional.
• Level	Create a level platform or consult a qualified professional.

⚠ WARNING

Cancer and Reproductive Harm

Read these instructions carefully. These instructions **MUST** stay with this product.

Contents

1 Explanation of Symbols and Safety Instructions

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

1.1 Recognize Safety Information

This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

1.2 Understand Signal Words

A signal word will identify safety messages and property damage messages, and also will indicate the degree or level of hazard seriousness.

DANGER!
Indicates a hazardous situation that, if **not** avoided, will result in death or serious injury.

WARNING
Indicates a hazardous situation that, if **not** avoided, could result in death or serious injury.

CAUTION
Indicates a hazardous situation that, if **not** avoided, could result in minor or moderate injury.

NOTICE: Used to address practices **not** related to physical injury.

Indicates additional information that is **not** related to physical injury.

1.3 Supplemental Directives

To reduce the risk of accidents and injuries, please observe the following directives before proceeding to install or operate this appliance:

- Read and follow all safety information and instructions.
- Read and understand all instructions before installing or operating this product.
- The installation must comply with all applicable local or national codes, including the latest edition of the following standards:

  U.S.A.

  – ANSI/NFPA70, National Electrical Code (NEC)

  – ANSI/NFPA 1192, Recreational Vehicles Code

  – ANSI Z21.57, Recreational Vehicles Code

  Canada

  – CSA C22.1, Parts I & II, Canadian Electrical Code

  – CSA Z240 RV Series, Recreational Vehicles

1.4 Personal and Product Safety

WARNING: FALL HAZARD.

Vent fans are normally located on the roof of a recreational vehicle (RV). It is inherently dangerous to climb onto the roof of an RV to perform installation, maintenance, or repairs on a vent fan. Use care and take appropriate precautions when climbing onto the roof of an RV, when working on the roof of an RV, or when standing on a ladder to work on an RV. Failure to obey this warning could result in death or serious injury.

NOTICE: Failure to adhere to the instructions in the following statements could result in personal, product, and/or property damage.

- If you are **not** familiar with how to perform the installations in this manual, consult a qualified installer.
- Use only Dometic replacement parts and components that are specifically approved for use with the appliance.
- Avoid improper installation, adjustment, alterations, service, or maintenance of the vent fan.
- Do **not** modify this product in any way. Modification can be extremely hazardous.

2 Pre-Installation

This section provides product information, including specifications, to help you prepare to install your new Fan-Tastic Vent Fan.

The images are for reference purposes only. Parts and part locations may vary according to specific product models. Measurements may vary ±0.38 in. (10 mm).

2.1 Intended Use

The Dometic Fan-Tastic Vent Fan ("vent fan") is a roof ventilation system designed for use in RVs to allow maximum airflow and additional protection from the elements while using a vented opening. In addition to speed settings and manual or automatic lid operation, options may include a rain sensor to stop the vent fan and close the lid when it senses moisture.

The manufacturer accepts no liability for damage in the following cases:

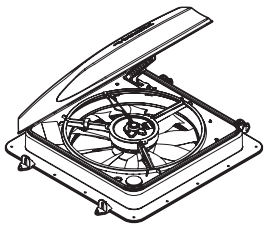
- Faulty assembly or connection
- Damage to the product resulting from mechanical influences and excess voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual

Dometic Corporation reserves the right to modify appearances and specifications without notice.

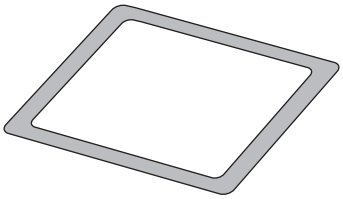
2.2 Package Contents

This section shows the package contents provided with the vent fan models. Actual package contents may vary. Refer to the complete parts list for additional information.

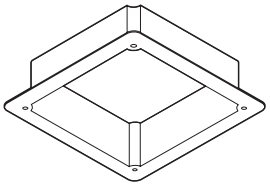
Package Contents



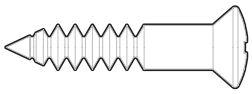
(AA)
Fan-Tastic Vent Fan



(BB)
Gasket or Sealer



(CC)
6 in. (152 mm) Trim Garnish[3]



(DD)
#8 Self-Tapping Flat-Head Screws
(3/4"–1")
[x16]

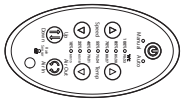
(EE)
#8 Flat-Head Screws (3/8")
[x4]

(FF)
16 Gauge Stranded Copper Wire

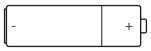
(GG)
Insulated Butt-Splice Wire Connectors
[x2]

(HH)
White Wire = Negative or Ground

(JJ)
Black Wire = Positive or Fused



(KK)
Remote Control with Cradle[1]



(LL)
AA Batteries[1]
[x2]

(NN)
Wall Control[2]

[1]Models: 7350, 7300, 6300, and 6350 only.

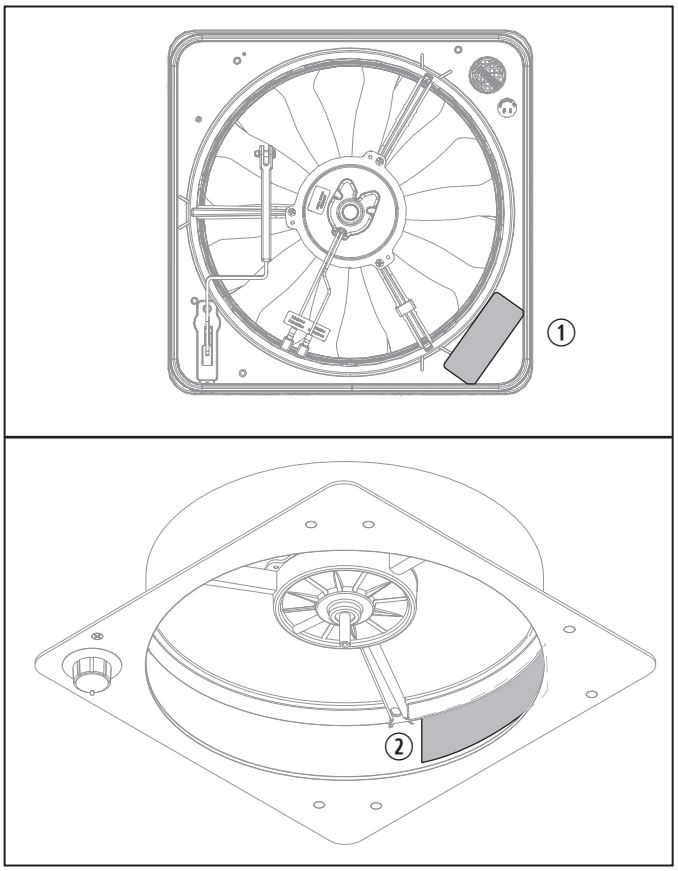
[2]Models: 7350, 7300, 6350, 6300, 5350, 5300, 5250, 5200, and 4200 only.

[3]To install a clamp-style fan using a clamp-mount method for roofs or walls < 4 in. (102 mm) thick, you will need a different trim garnish.

2.3 Model Identification

This section provides the two possible locations to find the vent fan model identification label. Have the information from this label ready, if contacting Dometic for service.

Some models may not be available at all times.

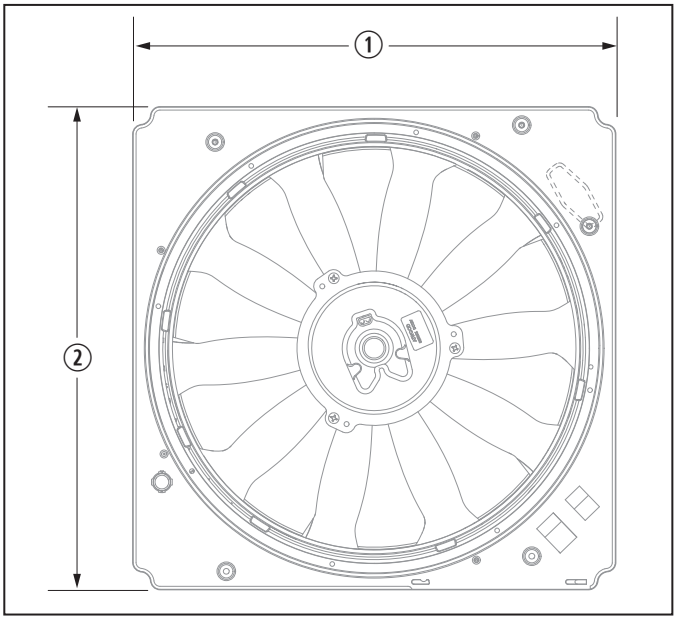


1 Model ID Label Locations

① Model ID location (older models)

② Barcode location (current models)

2.4 Vent Fan Dimensions

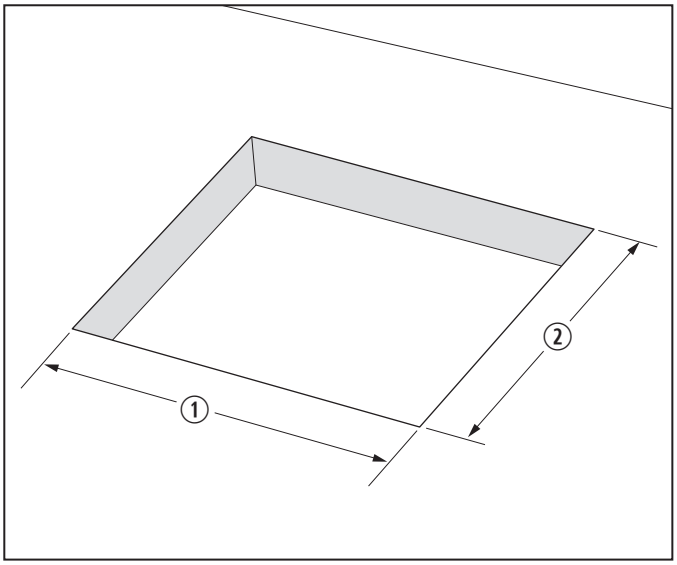


2 Vent Fan Dimensions

① 14 in. (356 mm)

② 14 in. (356 mm)

2.5 Vent Fan Cut-out Dimensions



3 Vent Fan Cut-out Dimensions

① 14.5 in. (368 mm)

② 14.5 in. (368 mm)

2.6 Trim Garnish Dimensions

This section provides the cutting measurements for the interior ceiling trim garnish.

A 6 in. (152 mm) trim garnish (CC) for a standard installation is provided with your vent fan. Thinner roofs or walls require a different trim garnish and a different type of installation.

2.6.1 Opening Depth: 7/8 to 1-7/8 in. (22 to 48 mm)

For a roof or wall thickness from 7/8 in. (22 mm) to 1-7/8 in. (48 mm), use a 1-7/8 in. (48 mm) trim garnish and adjust the size according to the table below.

Roof or Wall Thickness	Recommend Trim Garnish Size	Minimum Trim Garnish Size	Recommend Screw Size*	Maximum Screw Size*
7/8 in. (22 mm)	7/8 in. (22 mm)	1/2 in. (13 mm)	1-1/4 in. (32 mm)	1-7/8 in. (48 mm)
1 in. (25 mm)	1 in. (25 mm)	3/4 in. (19 mm)	1-1/2 in. (38 mm)	2 in. (51 mm)
1-1/4 in. (32 mm)	1-1/4 in. (32 mm)	1 in. (25 mm)	1-3/4 in. (45 mm)	2-1/4 in. (57 mm)
1-1/2 in. (38 mm)	1-1/2 in. (38 mm)	1-1/4 in. (32 mm)	2 in. (51 mm)	2-1/2 in. (64 mm)
1-3/4 in. (45 mm)	1-3/4 in. (45 mm)	1-1/2 in. (38 mm)	2-1/4in. (57 mm)	2-3/4 in. (70 mm)
1-7/8 in. (48 mm)	1-7/8 in. (48 mm)	1-5/8 in. (41 mm)	2-1/4in. (57 mm)	2-3/4 in. (70 mm)

*These recommended screw sizes are for a clamp-fan installation only.

2.6.2 Opening Depth: 2 to 4 in. (51 to 102 mm)

For a roof or wall thickness from 2 in. (51 mm) to 4 in. (102 mm), use a 4-1/4 in. (108 mm) trim garnish and adjust the size according to the table below.

Roof or Wall Thickness	Recommend Trim Garnish Size	Minimum Trim Garnish Size	Recommend Screw Size*	Maximum Screw Size*
2 in. (51 mm)	2 in. (51 mm)	1-3/4 in. (45 mm)	2-1/2 in. (64 mm)	3 in. (76 mm)
2-1/4 in. (57 mm)	2-1/4 in. (57 mm)	2 in. (51 mm)	2-3/4 in. (70 mm)	3-1/4 in. (83 mm)
2-1/2 in. (64 mm)	2-1/2 in. (64 mm)	2-1/4 in. (57 mm)	3 in. (76 mm)	3-1/2 in. (89 mm)
2-3/4 in. (70 mm)	2-3/4 in. (70 mm)	2-1/2 in. (64 mm)	3-1/4 in. (83 mm)	3-3/4 in. (95 mm)
3 in. (76 mm)	3 in. (76 mm)	2-3/4 in. (70 mm)	3-1/2 in. (89 mm)	4 in. (102 mm)
3-1/4 in. (83 mm)	3-1/4 in. (83 mm)	3 in. (76 mm)	3-3/4 in. (95 mm)	4-1/4 in. (108 mm)
3-1/2 in. (89 mm)	3-1/2 in. (89 mm)	3-1/4 in. (83 mm)	4 in. (102 mm)	4-1/2 in. (114 mm)
3-3/4 in. (95 mm)	3-3/4 in. (95 mm)	3-1/2 in. (89 mm)	4-1/4 in. (108 mm)	4-3/4 in. (121 mm)
4 in. (102 mm)	4 in. (102 mm)	3-3/4 in. (95 mm)	4-1/2 in. (114 mm)	5 in. (127 mm)

*These recommended screw sizes are for a clamp-fan installation only.

2.6.3 Opening Depth: 4.25 to 6 in. (108 to 152 mm)

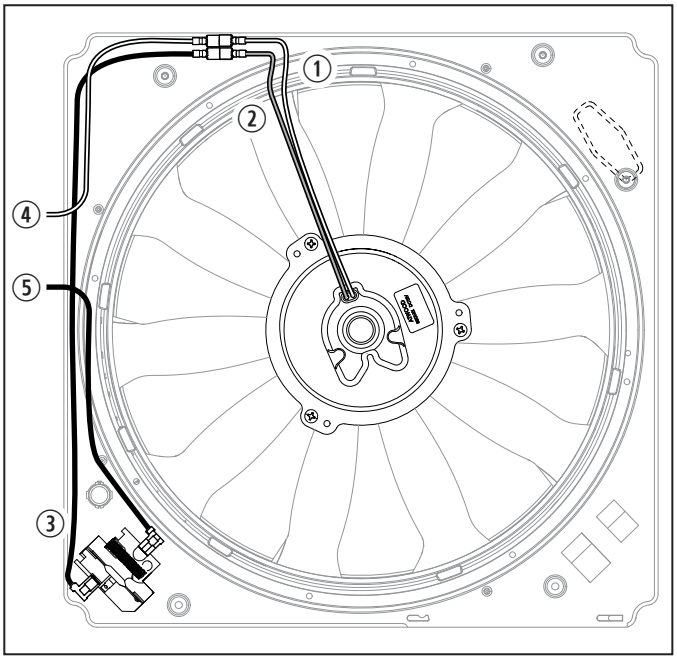
For a roof or wall thickness from 4-1/4 in. (108 mm) to 6 in. (152 mm), use the 6 in. (152 mm) trim garnish included with your Fan-Tastic Vent Fan and adjust the size according to the table below.

Roof or Wall Thickness	Recommend Trim Garnish Size	Minimum Trim Garnish Size
4-1/4 in. (108 mm)	4-1/4 in. (108 mm)	4.0 in. (102 mm)
4-1/2 in. (114 mm)	4-1/2 in. (114 mm)	4-1/4 in. (108 mm)
4-3/4 in. (121 mm)	4-3/4 in. (121 mm)	4-1/2 in. (114 mm)
5 in. (127 mm)	5 in. (127 mm)	4-3/4 in. (121 mm)
5-1/4 in. (140 mm)	5-1/4 in. (140 mm)	5 in. (127 mm)
5-1/2 in. (140 mm)	5-1/2 in. (140 mm)	5-1/4 in. (140 mm)
5-3/4 in. (146 mm)	5-3/4 in. (146 mm)	5-1/2 in. (140 mm)
6 in. (152 mm)	6 in.* (152 mm)	5-3/4 in. (146 mm)

*The 6.0 in. trim garnish is just long enough to provide coverage to the leading edge of the screen assembly, overlapping by 1/16 in. and not the recommended 1/8 in.

2.7 Wiring Diagram

This section provides the 12 VDC wiring connection for the vent fan.



4 Wiring Diagram

① White (Ground)
② Red (+)
③ Black (+)
④ Supply Ground
⑤ Supply Power

2.8 Installation Requirements

This manual will help you replace an existing vent or vent fan. If you encounter one of the following items, please contact a qualified service professional.

- If the existing vent opening is not 14-1/2 x 14-1/2 in. (368 x 368 mm), you may need to resize the opening.
- If there is no existing vent, you will need to create a new 14-1/2 in. x 14-1/2 in. (368 mm x 368 mm) opening.
- If the roof is corrugated or not level, you may need to create and install a frame to provide a level platform for the new vent fan.

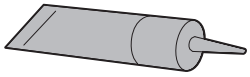
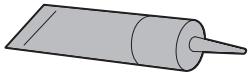
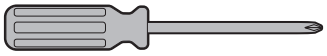
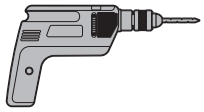
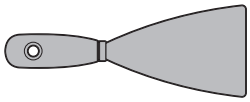
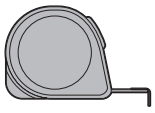
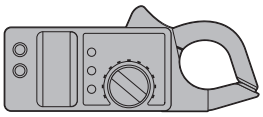
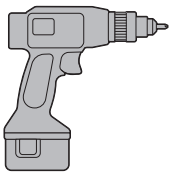
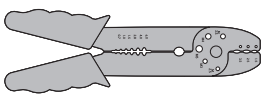
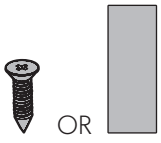
2.9 Required Specifications

This section provides the operational specifications for the vent fan and control.

Weight	12.0 lbs (5.4 kg)
Power Consumption	36 W
Output	<3 A
Fan Height	4 in. (101 mm) standard

2.10 Tools and Materials

Dometic recommends the following tools and materials to install the product:

Recommended Tools and Materials (not included)		
		
Straight Edge	Pencil or Pen	16-Gauge Stranded Copper Wire (Minimum)
		
All-Weather Roof Sealant	EPDM-Compatible Roof Sealant	Utility Knife
		
Level	Standard #2 Phillips Screwdriver	Cordless Drill with 1/8 in. Drill Bit
		
Putty Knife or Scraper	Measuring Tape	Multimeter
		
Screw Gun	Wire Cutter/Stripper/Crimping Tool	#8 x 3/8 in. Screws (x2) or Removable Hanging Strip (for the Remote Control Cradle)

3 Installation

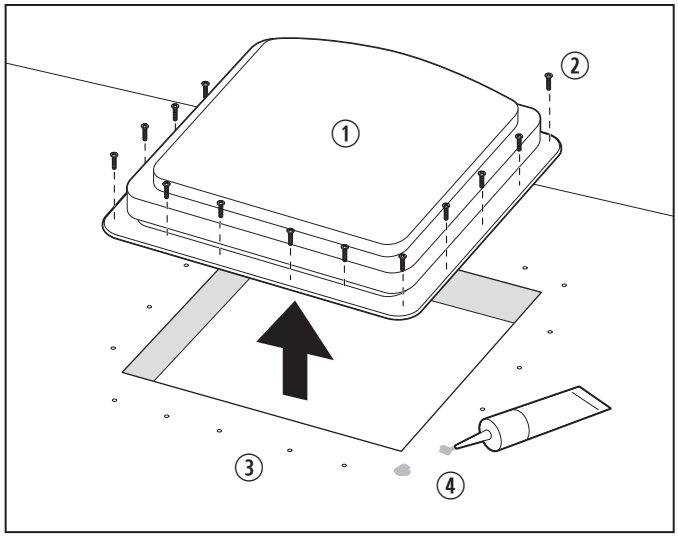
⚠ WARNING: FIRE OR ELECTRICAL SHOCK HAZARD. Failure to obey these warnings could result in death or serious injury.

- This product is designed for 12 VDC use only. Do **not** connect the vent fan to 110 VAC.
- Shut off the gas supply, disconnect the 120 VAC power from the RV, and disconnect the positive (+) 12 VDC terminal from the supply battery before drilling, cutting into, or wiring the RV.

NOTICE: The vent fan is designed to run on filtered DC current. Do **not** connect the vent fan to unfiltered DC current. Doing so could result in circuit board damage or failure.

This section describes how to install a vent fan horizontally on an RV roof, or vertically on an exterior wall with minor modifications.

3.1 Removing the Existing Vent



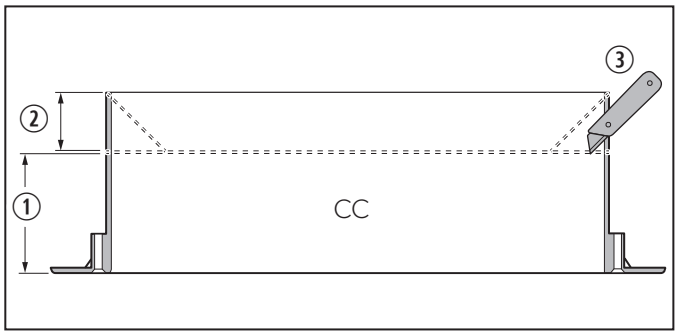
5 Remove the Existing Vent

① Existing Vent
② Existing Screws
③ Screw Holes
④ Sealant

1. Unscrew and remove the existing roof vent.
2. Remove any caulking compound around the roof or wall opening. A clean surface offers a better seal. Consult your RV owner's manual for cleaning recommendations.
3. Seal any screw holes and seams where the roof gasket will be located, using a good grade of all-weather roof sealant.

3.2 Assessing the Trim Garnish

1. Determine the length, width, and thickness or depth of the roof or wall opening where the new fan vent will be installed.
2. Confirm you have the correct trim garnish for the depth of the roof or wall opening. See "Trim Garnish Dimensions" on page 6.



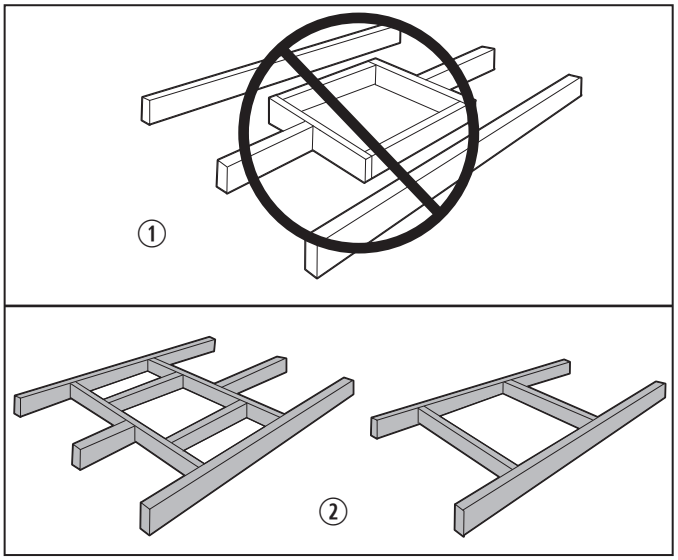
6 Resizing the Trim Garnish

① Required Trim Garnish Height
② Excess Trim Garnish to Remove
③ Utility Knife

3. Use a utility knife to adjust the size of the trim garnish (CC) to the correct height, if necessary.
   a. Use a straight edge and a pen to mark horizontally around all four sides from the top edge. Score the marked lines.
   b. Cut from the top edge of the corners at a 45 degree angle down to the score line, then break the excess plastic away from the trim garnish (CC).

3.3 Assessing the Roof Structure

NOTICE: If you are not using an existing 14.5 in. x 14.5 in. (368 mm x 368 mm) vent opening for your vent fan, see "Installation Requirements" on page 7.



7 Structural Integrity for the Roof

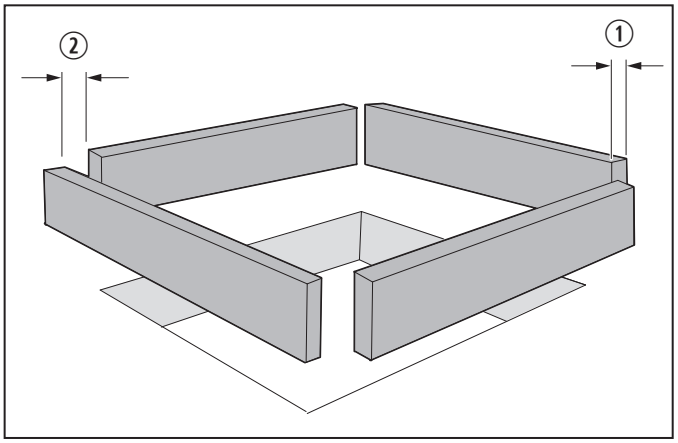
① Incorrect installation ② Correct installation

Make sure the roof opening does not compromise the structural integrity of the roof or wall.

- Do not cut the structure or the rafters.
- The rafters should remain supported by a cross beam.
- The roof opening should be between the rafters.

3.4 Framing the Roof or Wall Opening

If the roof is corrugated or not level, complete this section to create a level platform or contact a qualified service professional.



8 Frame for a Roof Opening

① 0.75 in. (25 mm) ② 0.25 in. (6 mm) Opening for the Power Supply Wiring

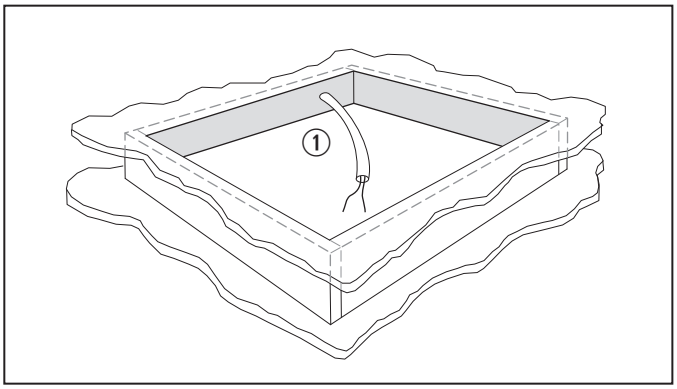
1. Build a frame for the vent opening to provide a level platform for securing the mounting flange to the roof.
2. Leave access for the power supply wiring to pass into the interior through the frame.

3.5 Connecting the Power

If you are replacing an existing vent fan, use the existing wiring only if it meets the Recreation Vehicle Industry Association's 16 AWG wiring and location requirements.

This section describes how to connect the vent fan to a 12 VDC power source.

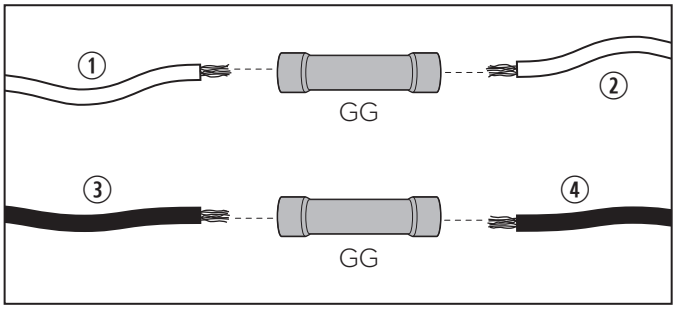
1. Locate the nearest 12 VDC power source wiring.
2. To avoid blowing the fuse, test the power source wiring for polarity.
   a. Turn on the 12 VDC power or battery.
   b. Using a multimeter, touch the red lead to the positive source. At the same time, touch the black lead to the neutral or negative wire. A correct polarity will display +12 or more volts. If incorrect, the multimeter will display -12 volts or more.
   c. Turn off the 12 VDC power or battery.



9 Power Supply at the Roof Opening

① 6 in. (152 mm) minimum

3. Route the power source wiring to the roof or wall opening. Add an additional 15 in. (381 mm) of wire, to ensure an easy connection to the vent fan. If necessary, extend the vent fan's wiring using the additional lengths of black and white wiring provided.



10 Connect the Vent Fan Wiring to the Power Source Wiring

① White Vent Fan Wire (Neutral or Ground)
② Power Source Wiring (Neutral or Ground)
③ Black Vent Fan Wire (Positive or Fused)
④ Power Source Wiring (Positive or Fused)

4. Use the butt-slice connectors (GG) to connect the vent fan's:
   a. black wire to the positive 12 VDC power source wire.
   b. white wire to the neutral or ground.
5. Crimp the butt-slice connector (GG) ends to secure the connection.

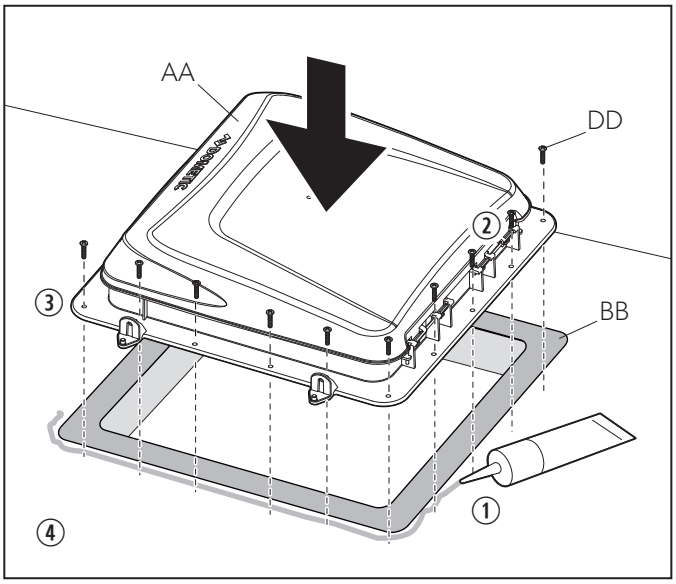
3.6 Mounting the Vent Fan

This section describes the two installation options for your vent fan.

- A vent mount installation is the standard, recommended method for most Fan-Tastic Vent Fans. See "Vent Mount" on page 11.
- A clamp-fan mount is recommended only for a roof or wall that is less than 4 in. (102 mm) thick and without a solid substrate to support a rooftop screw installation. See "Clamp-Fan Mount" on page 12.
- Confirm the height of the trim garnish is correct for the thickness of your roof or wall. See "Trim Garnish Dimensions" on page 6.

3.6.1 Vent Mount

This section describes how to install a vent fan using the vent mount method.



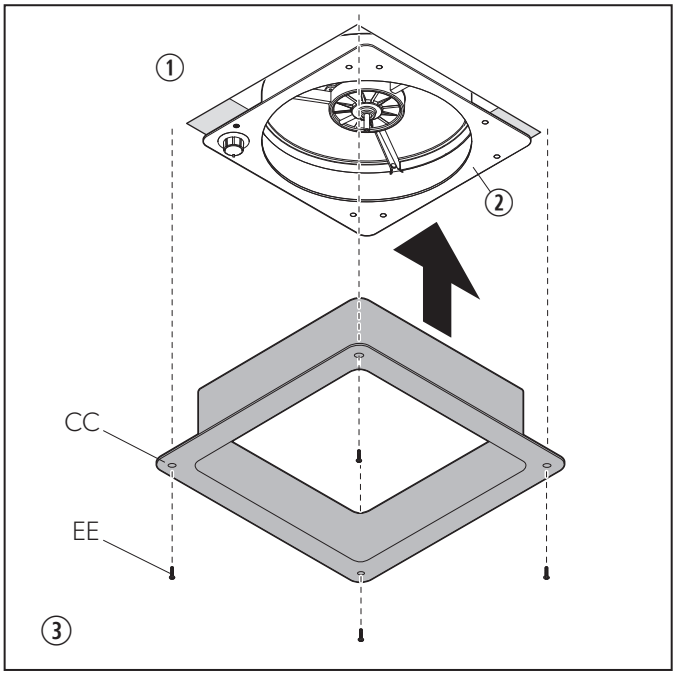
11 Vent Mounting

① All-Weather Sealant
② Vent Fan Hinge
③ Mounting Flange
④ Exterior

1. Move the vent fan (AA) to the exterior roof opening.
2. Line the outside of the roof opening with a compatible sealant, or place the gasket (BB) around the opening.

If using sealant, for rubber roofs, use an EPDM-compatible roof sealant.

3. Position the vent fan (AA) over the exterior roof opening, making sure the sealant or gasket is "sandwiched" between the bottom of the mounting flange and the roof opening.
   – When positioning the vent fan on the roof, the lid hinge should be closest to the front of the RV.
   – If positioning the vent fan on the side of the RV (vertically), the lid hinge should be closest to and parallel with the roof line.
4. Use the #8 self-tapping flat-head screws (3/4"–1") (DD) provided to attach the vent fan to the exterior roof opening.
5. Apply an all-weather sealant over the screw heads and at the mounting flange where it meets the roof or side.



12 Securing the Trim Garnish for a Vent Mount

① Ceiling
② Fan Base
③ Interior

6. From the interior of the RV, use the #8 flat-head screws (3/8") (EE) provided to mount the trim garnish (CC) into the fan base. Do not overtighten the screws.

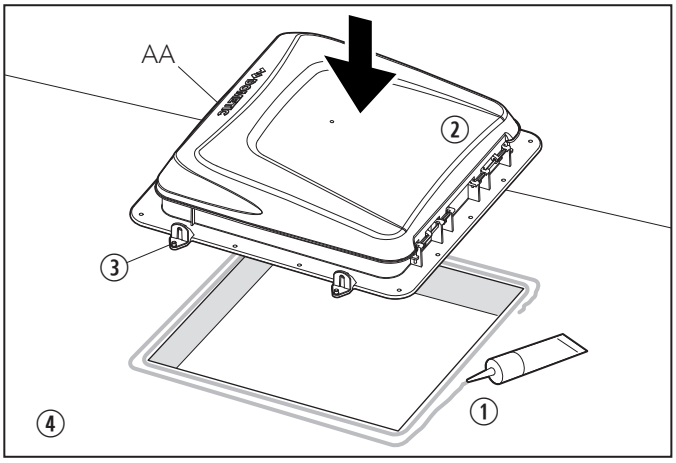
The four screw holes are located on the outside corners on the larger vent mount trim garnish (provided).

7. Using a screw gun, torque the #8 flat-head screws (EE) equally. Do not overtighten.

3.6.2 Clamp-Fan Mount

This section describes how to install a vent fan using the clamp-fan method.

Some Fan-Tastic Vent Fans are available in a "clamp fan" configuration for roof or wall openings with a thickness less than 4 in. (102 mm). The shorter trim garnish for a clamp-fan mount is designed to secure the vent fan with screws into the fan base from inside the RV and to trim the ceiling cut-out.



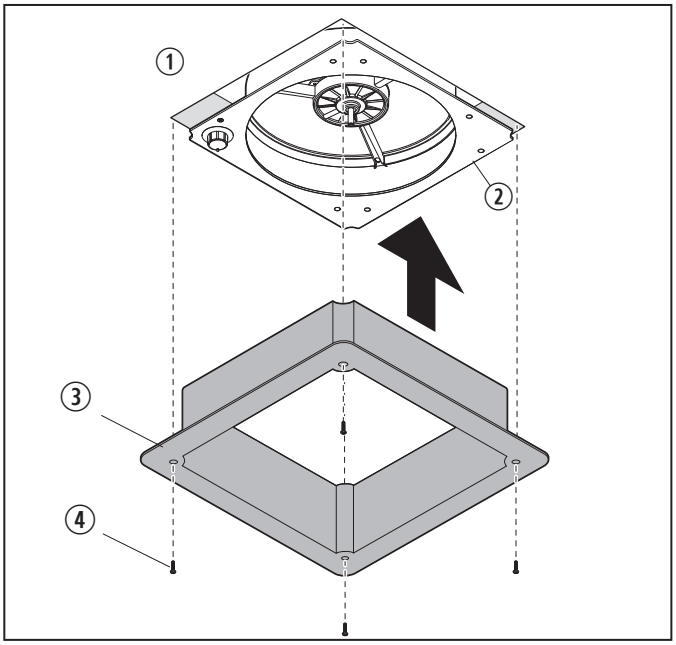
13 Clamp-Fan Mounting

① All-Weather Sealant
② Vent Fan Hinge
③ Mounting Flange
④ Exterior

1. Move the vent fan (AA) to the exterior roof or wall opening.

2. Run a double-bead of compatible sealant between the outside of the roof or wall opening and the base of the mounting flange.

Do not use putty tape, butyl, or gaskets for clamp-fan mounts.



14 Securing the Trim Garnish for a Clamp-Fan Mount

① Ceiling
② Fan Base
③ Shorter Trim Garnish
④ #8 Flat-Head Screws

3. From the interior of the RV, use four #8 flat-head screws (not provided) to mount the trim garnish into the fan base. Do not overtighten the screws. See "Trim Garnish Dimensions" on page 6 for recommended screw length.

The four screw holes are located on the inside corners of the shorter trim garnish (not provided).

4. Using a screw gun, torque the #10 flat-head screws equally. Do not overtighten.

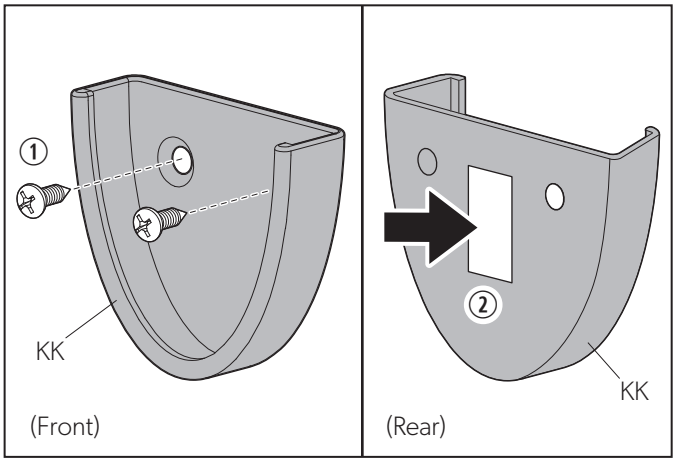
If using sealant, for rubber roofs, use an EPDM-compatible roof sealant.

3.7 Mounting the Controls

This section describes how to install your vent fan controls.

3.7.1 Mounting the Remote Control Cradle

This section describes two options to install a cradle for those models equipped with a remote control. The cradle installation is optional.

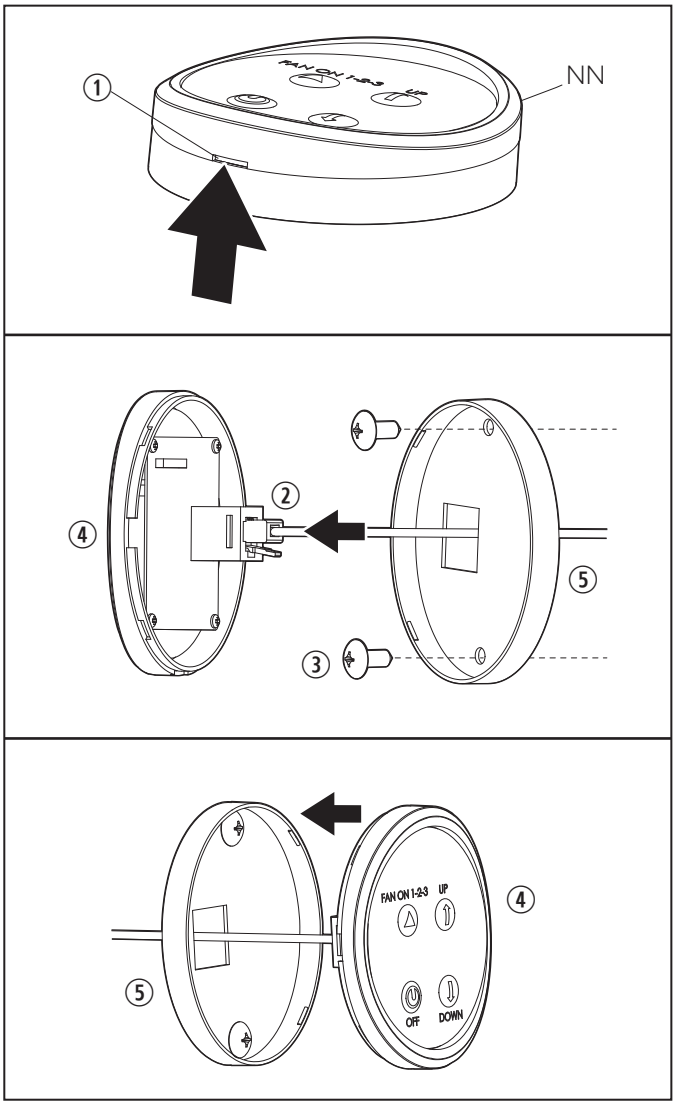


15 Remote Control Cradle

① #8 x 3/8" screws ② Removable Hanging Strip

- **Option 1**: Hold the back of the cradle (KK) to the wall location and secure it with two #8 x 3/8" screws (not included) through the two round holes in the back.
- **Option 2**: Affix the cradle (KK) to the wall location using a removable, hanging strip (not included) that is safe for your RV interior according to your owner's manual.

3.7.2 Mounting the Wall Controls



16 Wall Control

① Notch ④ Front
② RJ-11 control cable ⑤ Back
③ #8 x 3/8" screws

1. Locate the notch on the bottom edge of the wall control (NN) and use a screwdriver or a coin in a twisting motion to separate the back plate.
2. Thread the RJ-11 control cable (in the wall) through the square hole in the back plate (from the backside to the front) and plug it into the front half of the control.
3. Hold the back plate to the wall location and secure it with two #8 x 3/8" screws (not included) through the two round holes in the back plate.

4. Push the front half of the wall control (NN) onto the back plate, being sure to align the connector plug with the square hole, and snap both halves together.

4 Vent Fan Operation

CAUTION: WATER DAMAGE/LEAK HAZARD. Failure to obey the following instructions could result in minor or moderate injury or property damage:

- Do **not** leave the vent lid open and unattended for extended periods of time, or under unusual weather conditions that may result in leakage and serious damage.
- Do **not** use this product in inclement weather.

CAUTION: PINCH HAZARD.
Do **not** pull down on the vent fan knob. Failure to obey this caution could result in minor or moderate injury or property damage.

Slightly open the windows on the shaded side of the RV to provide the most comfortable ambient air, even on hot days.

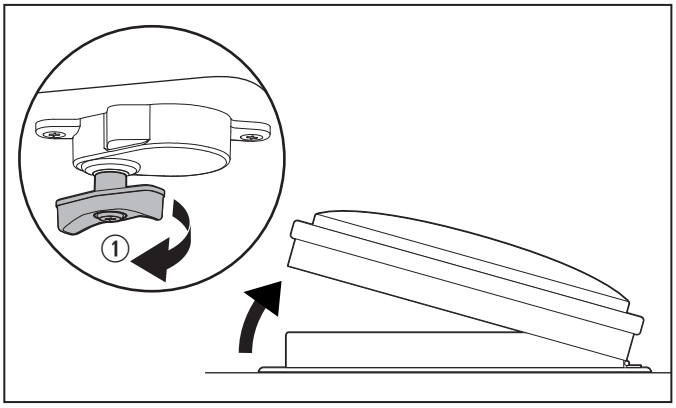
Direct the airflow by opening a window. Try to position yourself between an open window and the fan for greatest airflow comfort.

For optimal performance, close all the outside vents when using your vent fan.

If driving while the vent is open, keep it fully open to avoid fluttering or closing unexpectedly.

This section describes the options available to lift the vent lid and to operate the vent, the fan, and the thermostat.

4.1 Opening the Manual-Lift Vent

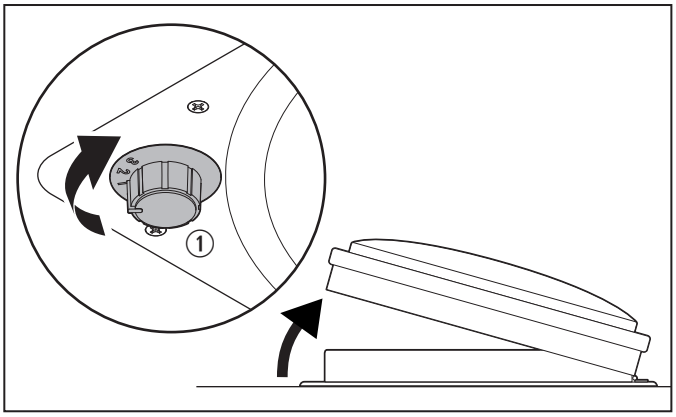


17 Manual Lift

① Hand-Knob

To manually open or close the lid on your vent fan, grasp the black hand-knob and turn it in the direction desired.

4.2 Operating the Automatic-Lift Vent



18 Automatic Lift

① Three-Speed Knob

1. Use the UP/DOWN button(s) on the wall control to open or close the vent lid. Open the vent lid 4 in. (102 mm) or more. Some fan models have a built-in switch that will not allow the fan motor to operate unless the vent lid is partially open. See "Control Operation" on page 15 for your vent fan model.
2. With the vent open, turn the three-speed knob on the fan to the desired performance level: 0-OFF, 1-LOW, 2-MEDIUM, 3-HIGH, or select the speed on the wall controller. See "Using the Premium Remote and Wall Controls" on page 16 through 23.

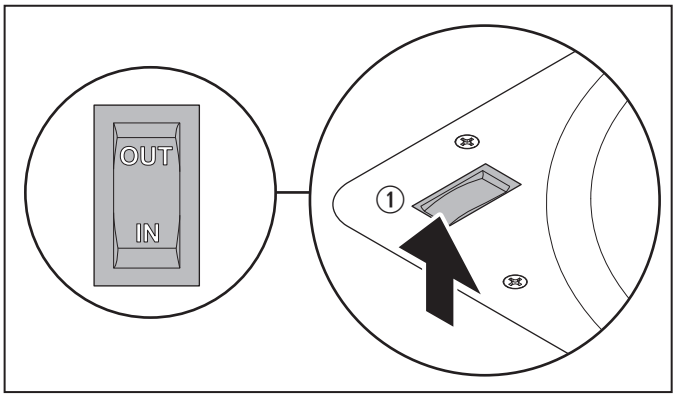
3. For increased airflow, open the window or door farthest from the vent.

4.3 Operating the Thermostat

With the vent lid open, select the desired temperature or comfort level on the thermostat. The fan motor will start and stop automatically as the interior temperature of the coach exceeds or drops below the selected temperature level. See "Using the Premium Remote and Wall Controls" on page 16.

4.4 Operating the Reverse Switch

This section describes how to change the vent fan's air flow direction, either to pull air into or expel air from, the RV interior.



19 Reverse Switch

① Fan Motor Switch

1. With the vent open, move the fan motor switch to the center position to turn the fan OFF. Wait for the fan blades to stop moving.
2. Select the IN position on the switch to bring air from the roof area into your RV (pressurizes inside), or select the OUT position to bring air in through any RV openings, and expel the air out through the roof.

5 Control Operation

⚠ CAUTION: WATER DAMAGE/LEAK HAZARD. Failure to obey the following instructions could result in minor or moderate injury or property damage:

- Do **not** leave the vent lid open and unattended for extended periods of time, or under unusual weather conditions that may result in leakage and serious damage.
- Do **not** use this product in inclement weather.

⚠ CAUTION: PINCH HAZARD.

Do **not** pull down on the vent fan knob. Doing so could damage your fan or cause physical injury. Failure to obey this caution could result in minor or moderate injury or property damage.

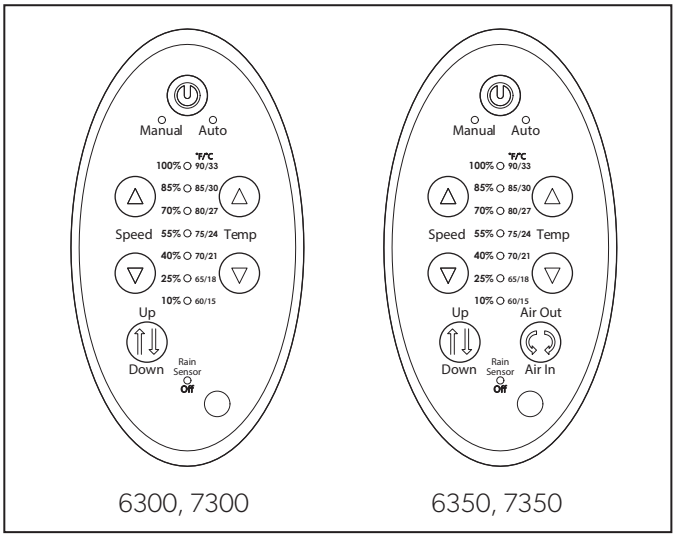
This section describes how operate the vent fan models. In addition, the following suggestions will improve your vent fan's overall operation .

- Close all outside vents when using your vent fan.
- Slightly open the windows on the shaded side of the RV to provide the most comfortable ambient air, even on hot days.
- Direct the airflow by opening a window. Try to position yourself between an open window and the fan for greatest airflow comfort.
- If driving while the vent is open, keep it fully open to avoid fluttering or closing unexpectedly.

5.1 Using the Premium Remote and Wall Controls

For Models 6300, 6350, 7300, and 7350

Remote and wall controls operate identically.



20 Premium Remote Wall Controls

	Name	Function
	Fan Power ON/OFF	Press to turn ON the fan (this will start the fan in Auto mode). Press to turn OFF the fan (this will stop the fan and close the lid).
Speed	Fan Speed	Press UP to increase the fan speed. Press DOWN to decrease the fan speed. • Pressing either button will change fan mode to Manual. • These buttons work in Manual mode only. The fan has 13 speeds. Fan speed is indicated on the remote in % from 10% (low speed) to 100% (high speed). An LED will illuminate next to the % of fan speed. If two LEDs are illuminated, then the speed is halfway between the illuminated %. For example, if both 85% and 100% LEDs are illuminated; the speed is approximately 93%.
Temp	Thermostat Temperature Setting: Fahrenheit/Celsius	Press UP to increase the Set Temperature. Press DOWN to decrease the Set Temperature. • Pressing either button will change fan mode to Auto. • These buttons work in Auto mode only. The fan has 13 temperature settings; the temperature setting is indicated on the remote in degrees (60 °F–90 °F; 15 °C–30 °C). An LED will illuminate next to the degrees setting of the thermostat. If two LEDs are illuminated, the thermostat setting is halfway between the illuminated degrees. For example, if both the 85/30 and 90/33 LEDs are illuminated; the setting is approximately 88 °F (31 °C).
Up Down	Vent Lid OPEN/CLOSE	When the vent lid is closed, press this button once to open the vent lid. When the vent lid is open, press this button once to close the vent lid. • This button will operate independently of the fan motor ON/OFF switch. • Pressing this button will not change the fan mode. The rain sensor can be turned ON or OFF by pressing the button for three seconds.
Air Out Air In	Air OUT/IN (Model 6350 & 7350)	In either Manual or Auto mode (when the vent lid is open), press this button once to reverse the fan blade direction. Press it again for the opposite direction. Pressing the button will not change the fan mode.

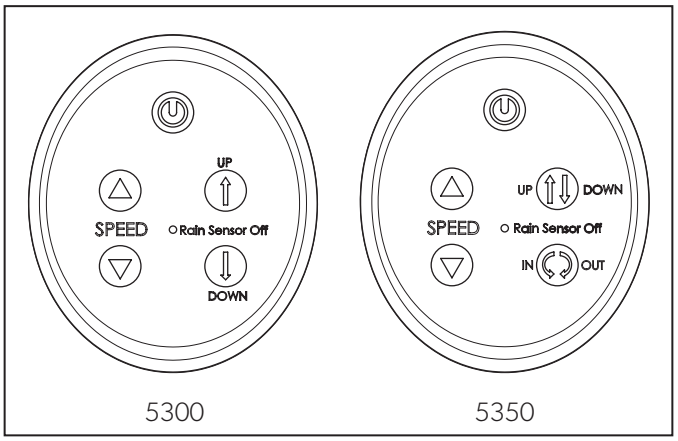
	Name	Function
Rain Sensor ○ Off	Rain Sensor and Rain Sensor LED	Turn the rain sensor ON/OFF by pressing the Rain Sensor UP/DOWN button for three seconds. This LED will illuminate when the rain sensor has been turned OFF.
○ Manual	Manual Mode LED	Press the Speed UP/DOWN to enter Manual mode. This LED will illuminate when the controls are in Manual mode.
○ Auto	Auto Mode LED	Press the Temp UP/DOWN to enter Auto mode. This LED will illuminate when the controls are in Auto mode.

Wireless remote-control models (7300 & 7350) will “sleep” or shut off 30 seconds after the last command, to preserve battery life. To “wake” the control, push any button on the control, and it will show the last temperature and/or speed setting received. If the control is manually shut off using the ON/OFF button, it will reset.

If a command is not allowed, the control will beep twice.

5.2 Using Wall-Mounted Controls

For Models 5300, 5350



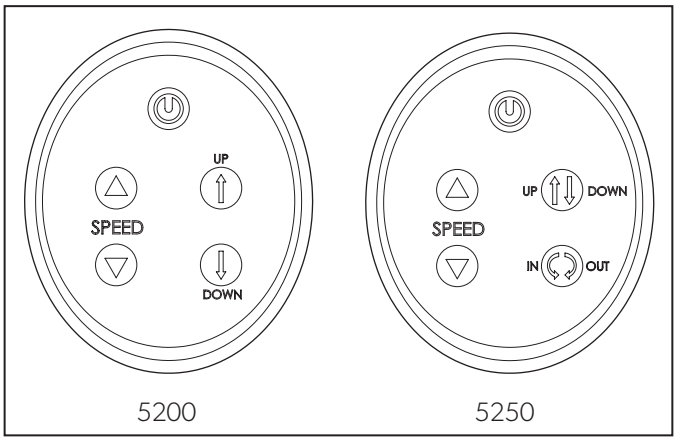
21 Wall-Mounted Controls (5300, 5350)

When the fan is running: Closing the lid by pressing the UP/DOWN button shuts OFF the fan blade. Re-opening the lid using the UP/DOWN button will revert the fan blade movement to its previous set speed. Using the ON/OFF button will not do this; the ON/OFF button resets the fan to normal operation.

	Name	Function
	Fan Power ON/OFF	Press to turn ON the fan. This will start the fan on HIGH. Press to turn OFF the fan. This will stop the fan and close the lid.
SPEED	Fan Speed	Press UP to increase the fan speed. Press DOWN to decrease the fan speed. The fan has 13 speeds, not including OFF.
UP DOWN	Vent Lid OPEN/CLOSE (Model 5350)	When the vent lid is closed, press this button once to open the vent lid. When the vent lid is open, press this button once to close the lid. The rain sensor can be turned ON or OFF by pressing this button for three seconds.
UP DOWN	Vent Lid OPEN/CLOSE (Model 5300)	When the vent lid is closed, press the UP button once to open the vent lid. When the vent lid is open, press the DOWN button once to close the vent lid. The rain sensor can be turned ON or OFF by pressing this button for three seconds.
IN OUT	Air OUT/IN (Model 5300)	When the vent lid is open, press this button once to reverse the fan blade direction; press it again for the opposite direction. • Once pressed, the motor will slow and then reverse direction. If the button is pressed again during the reversing cycle, a double-beep will indicate the cycle is in progress. • The function can only be changed after the reversing cycle is complete.
Rain Sensor Off	Rain Sensor LED	This LED will illuminate when the rain sensor has been turned OFF at the wall control. The rain sensor can be turned ON or OFF by pressing the DOWN button for three seconds.

5.3 Using Wall-Mounted Controls

For Models 5200, 5250 RJ-11



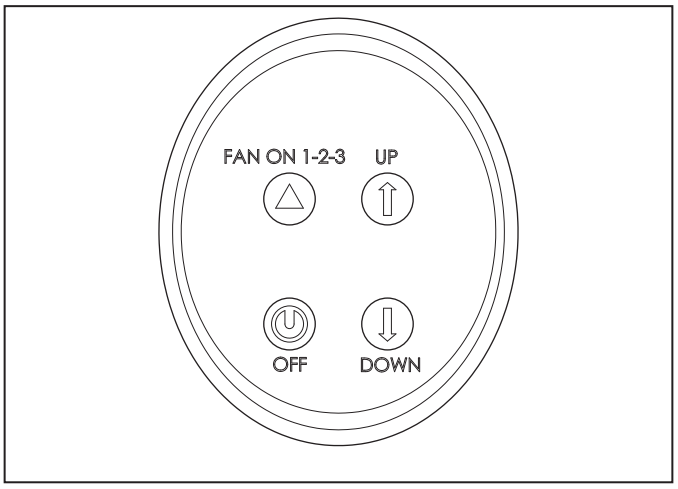
22 Wall-Mounted Controls (5200, 5250)

When the fan is running: Closing the lid by using the UP/DOWN button shuts OFF the fan blades. Re-opening the lid by using the UP/DOWN button will revert the fan blade movement to its previous set speed. Using the ON/OFF button will not do this; the ON/OFF button resets the fan to normal operation.

	Name	Function
	Fan Power ON/OFF	Press to turn ON the fan. This will start the fan on HIGH. Press to turn OFF the fan. This will stop the fan and close the lid.
SPEED	Fan Speed	Press UP to increase the fan speed. Press DOWN to decrease the fan speed. The fan has 13 speeds, not including OFF.
UP DOWN	Vent Lid OPEN/CLOSE (Model 5250)	When the vent lid is closed, press this button once to open the lid. When the vent lid is open, press this button once to close the lid.
UP DOWN	Vent Lid OPEN/CLOSE (Model 5200)	When the vent lid is closed, press the UP button once to open the lid. When the vent lid is open, press the DOWN button once to close the lid.
IN OUT	Air OUT/IN (Model 5250)	When the vent lid is open, press this button once to reverse the fan blade direction; press it again for the opposite direction.

5.4 Using Wall-Mounted Controls

For Model 4200 RJ-11



23 Wall-Mounted Control (4200)

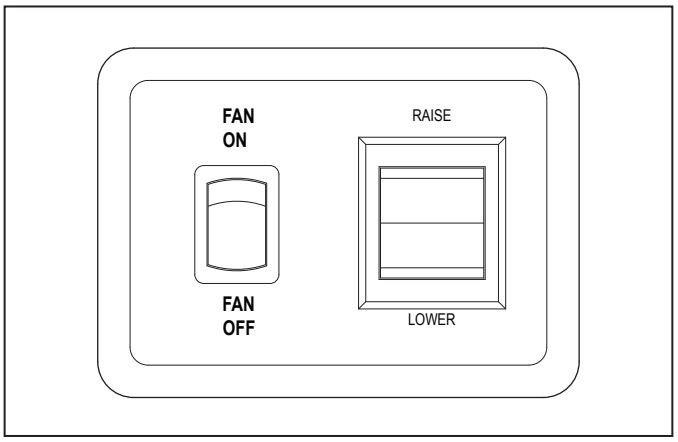
When the fan is running: Closing the lid by using the UP/DOWN button shuts the fan blades OFF. Re-opening the lid using the UP/DOWN button will revert the fan speed to its previous set speed. Using the ON/OFF button will not do this; the ON/OFF button resets the fan to normal operation.

	Name	Function
FAN ON 1-2-3 △	Fan ON 1-2-3	Press to turn ON the fan. Each press will increase the fan speed one level: • One press - turns the fan ON and opens the vent lid at lowest level speed • Two presses - changes fan to level-2 speed • Three presses - changes fan to level-3 speed • Four presses - returns fan to level-1 speed
⏻ OFF	Fan Power OFF	Press to turn OFF the fan. • This will stop the fan and close the lid.
UP ⇧ ⇩ DOWN	Vent Lid OPEN/CLOSE	When the vent lid is closed, press the button once to open the lid. When the vent lid is open, press this button once to close the lid.

5.5 Using Wall-Mounted Controls

For Models 4100, 4150, 4175

NOTICE: Continuing to press the RAISE/LOWER pad after the vent lid is open or closed will cause damage to the lift system.



24 Wall-Mounted Control (4100, 4150, 4175)

1. Activate the fan by preselecting 1-LOW, 2-MEDIUM, or 3-HIGH, on the fan-blade speed switch.
2. On the wall control, press the RAISE/LOWER switch pad. Select and press the RAISE position until the vent lid reaches the desired height, then release the switch pad. At full-open, the vent fan lift motor will stall; release the switch pad immediately.
3. Select and press the LOWER position until the lid lowers to the desired height, then release the switch pad. At fully closed, the vent fan lift motor will stall; release the switch pad immediately.
4. When the fan is equipped with a fan blade motor-reversing switch, preselect either OUT or IN on the reversing switch; the center position is OFF (neutral position). As the vent lid opens and reaches approximately 4 in. (102 mm), the fan blade turns on to the preselected speed and direction. See "Operating the Reverse Switch" on page 15.

OUT (exhaust mode) pulls fresh air in through a slightly open window or door while expelling hot, stale, dusty air out to the roof area. IN (intake mode) draws air into the coach from the roof area and effectively pressurizes the coach if all windows, doors and other vents are closed.

5. When the lid closes, the fan motor automatically turns OFF. Any time you wish to reverse the fan blade motor while the system is in operation, select the center OFF (neutral) position and allow the fan blade to stop completely. Once stopped, you may safely select the opposite direction to restart the motor.
6. When the fan is equipped with a built-in thermostat, preselect a comfort setting from deep blue to deep red on the thermostat dial (22 °F to 123 °F; –6 °C to 51 °C). The fan motor will turn ON or OFF, based on the interior ambient temperature when compared to the thermostat setting. When the thermostat temperature is "satisfied," the fan motor will turn OFF and the lid will stay open. When the thermostat calls for cooling, the fan blade motor will activate automatically. The lid must be open at least 4 in. (102 mm) and OUT or IN must be selected (not the center OFF position). The ON/OFF switch on the wall control next to the RAISE/LOWER switch must be in the ON position before the thermostat can activate the fan blade.

5.6 Using Wall-Mounted Controls

For Models 3300, 3350

1. Turn the three-speed knob to the desired speed (0-OFF, 1-LOW, 2-MEDIUM, or 3-HIGH).
2. Select UP to raise the vent lid or DOWN to close the lid from the mini-rocker switch located near the lift motor.
3. When equipped with a fan blade ON/OFF switch (Model 3300), select ON or OFF.
4. When the fan is equipped with a fan blade motor-reversing switch (Model 3350), preselect either OUT or IN on the reversing switch; the center position is OFF (neutral position). As the vent lid opens and reaches approximately 4 in. (102 mm), the fan blade turns on to the preselected speed and direction. See "Operating the Reverse Switch" on page 15.

OUT (exhaust mode) pulls fresh air in through a slightly open window or door while expelling hot, stale, dusty air out to the roof area. IN (intake mode) draws air into the coach from the roof area and effectively pressurizes the coach if all windows, doors and other vents are closed.

5. When the lid closes, the fan motor automatically turns OFF. Any time you wish to reverse the fan blade motor while the system is in operation, select the center OFF (neutral) position and allow the fan blade to stop completely. Once stopped, you may safely select the opposite direction to restart the motor.

6. These two models are equipped with a built-in thermostat. Preselect a comfort setting from deep blue to deep red on the thermostat dial (22 °F to 123 °F; –6 °C to 51 °C). The fan motor will turn ON or OFF, based on the interior ambient temperature compared to the thermostat setting. When the thermostat temperature is "satisfied," the fan motor will turn OFF and the lid will stay open. When the thermostat calls for cooling, the fan blade motor automatically activates. The lid must be open at least 4 in. (102 mm) and OUT or IN must be selected and not the center OFF position (Model 3350). The ON/OFF switch on the fan must be in the ON position (Model 3300) before the thermostat can activate the fan blade.

7. Both models are equipped with a rain sensor. When the lid is open and moisture contacts the sensor, the lid closes and disengages the fan blade motor. When the rain sensor dries, it will not automatically re-open the lid. Manually opening the lid by using the lift-motor knob will bypass the rain sensor with fan operation, reverting to the setting prior to the sensor's activation. When the rain sensor has been overridden by manually opening the lid, the rain sensor will become active again once it has dried.

5.7 Using the Controls

For Models 4201, 4251, 4301, 4351

1. Turn the three-speed knob to the desired performance level (0-OFF, 1-LOW, 2-MEDIUM or 3-HIGH). This will activate the fan.

2. Select UP to raise the vent lid or DOWN to lower the lid from the remote wall-mounted switch.

3. When equipped with a fan blade ON/OFF Switch (Model 4201/4301), select ON or OFF. When the fan is equipped with a fan blade motor-reversing switch (Model 4251/4351), preselect either OUT or IN on the reversing switch; the center position is OFF (neutral position). As the vent lid opens and reaches approximately 4 in. (102 mm), the fan blade turns on to the preselected speed and direction. See "Operating the Reverse Switch" on page 15.

   OUT (Exhaust mode) pulls fresh air in through a slightly open window or door while expelling hot, stale, stuffy air out to the roof area. IN (Intake mode) draws air into the coach from the roof area and effectively pressurizes the coach if all windows, doors and other vents are closed.

4. When the lid closes, the fan blade motor automatically turns OFF. Anytime you reverse the fan blades while the system is in operation, select the center OFF (neutral) position and allow the fan blades to stop completely. Once stopped, you may safely select the opposite direction to restart the motor.

5. Both models 4301 & 4351 are equipped with a rain sensor. When the lid is open and moisture contacts the sensor, the lid closes and disengages the fan blade motor. When the rain sensor dries, it will not automatically re-open the lid. Manually opening the lid by using the lift-motor knob will bypass the rain sensor with fan operation, reverting to the setting prior to the sensor's activation. When the rain sensor has been overridden by manually opening the lid, the rain sensor will become active again once it has dried.

6 Maintenance

WARNING: ELECTRICAL SHOCK, FIRE, AND/OR EXPLOSION HAZARD.

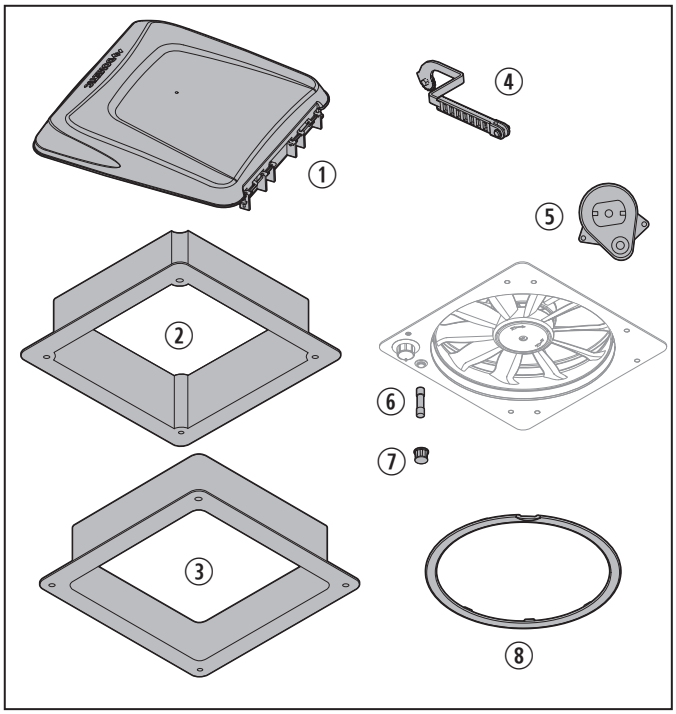
Always disconnect the unit from power before cleaning or servicing. If you are unfamiliar with working with electrical components, contact a qualified service professional. Failure to obey this warning could result in death or serious injury.

NOTICE: Perform the maintenance and cleaning in this section as needed, based on the use of the appliance. Failure to properly maintain the appliance may void the warranty and could result in unsafe operation. Preventive maintenance is not covered under the warranty.

6.1 Serviceable Parts

This section shows the serviceable parts for the vent fan models.

Actual available parts may vary. Refer to the complete parts list for additional information. To order parts, contact your local Dometic service partner or dealer.



25 Serviceable Parts

① Vent Fan Lid
② Trim Garnish - 0.9 in. or 4.25 in.
③ Trim Garnish - 6 in.
④ Lift Arm
⑤ Lift Motor
⑥ 4 A "Slow Blow" Fuse
⑦ Fuse-Holder Cap
⑧ Pop N' Lock™ Screen

6.2 Maintenance Kits and Materials

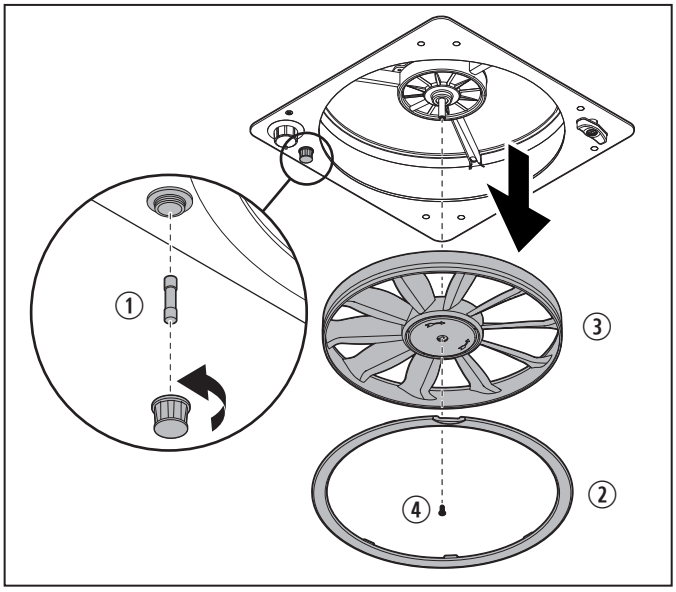
Optional Replacement Kits (Not included)

Description	Applies to
Lift Arm Motor	All Models
Pop N' Lock™ Screen Assembly	All Models
Remote Control	7350, 7300 Models only

Optional Maintenance Materials (Not included)

Description	Purpose	Restriction
Solvent	Sealant Removal	Consult your RV owner's manual for specific recommendations.
Soft Bristle Brush	Cleaning	
Denatured or Rubbing Alcohol	Cleaning	
Shop Cloth	Cleaning	
Silicone Protectant	Maintenance/ Trouble-shooting	
Water-based Protectant (Non-petroleum-based)	Maintenance/ Trouble-shooting	

6.3 Cleaning the Fan



26 Cleaning the Fan

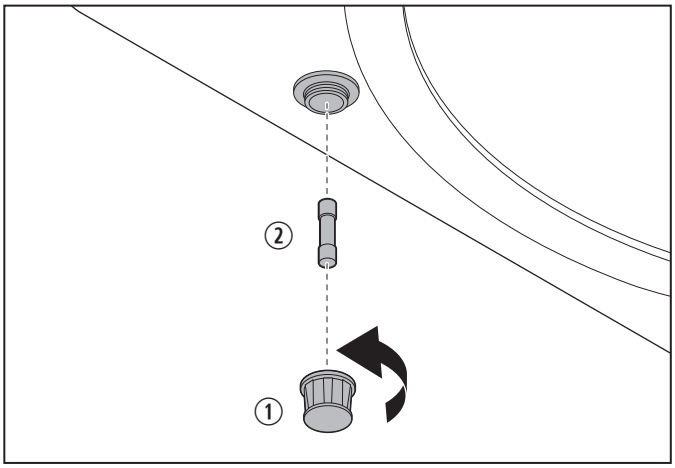
① Fuse and Fuse-Holder Cap
② Pop N' Lock™ Screen Ring
③ Fan Blade
④ Fan Blade Screw

1. Remove and inspect the fuse, and replace if necessary. For fuse removal instructions, see "Cleaning the Fan" on page 24.
2. Remove the Pop N' Lock™ screen ring by grasping the finger tab with one hand and pulling straight down. Use your free hand to brace against the screen assembly (control panel) to prevent breaking the Pop N' Lock™ screen. Removing the Pop N' Lock may be difficult at first, but will get easier with repeated removal.
3. Use one hand to hold the fan blade to prevent it from turning and remove the Phillips-head screw from the center hub face of the fan blade. With the fan-blade screw removed, grasp the fan blade with two hands on opposite sides (for example, the 3:00 and 9:00 positions) and pull down firmly. It may be necessary to wiggle the fan blade up-and-down and side-to-side until it slides off the motor shaft.
4. Clean the Pop N' Lock™ screen insert and fan blade with window cleaner or non-abrasive dish soap and warm water. You may also place the screen insert and fan blade in the top rack of an automatic dishwasher.

Optional: Once the screen and blade are clean and dry, wipe or spray a waterbased (not petroleum-based) protectant on the screen and blade, and buff to a high gloss. This minimizes dust and dirt build-up and eases future cleaning.

5. Re-assemble the fan by reversing the steps above.

6.4 Replacing the Fuse

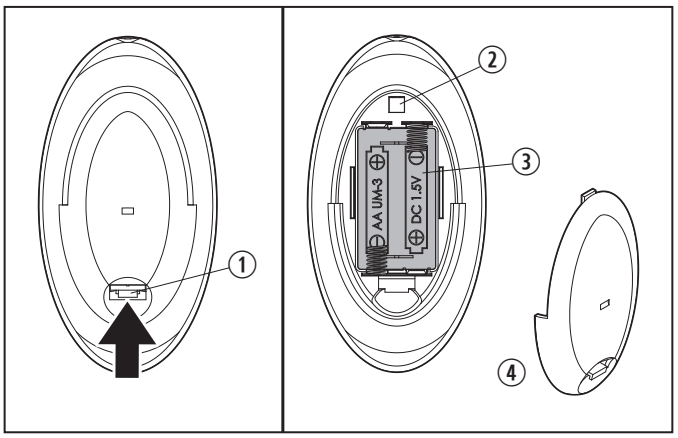


27 Fuse Replacement

① Fuse-holder Cap ② 4 A "Slow Blow" Fuse

1. Locate the black fuse-holder cap on the face of the screen assembly. Twist the fuse-holder cap in a counter-clockwise direction (from right to left) 1/4 to 1/2 turn.
2. Gently pull down on the fuse-holder cap. The fuse-holder cap should come free with the fuse attached to the back side.
3. Inspect the fuse to see if the wire inside the glass is broken and remove from the fuse-holder cap if necessary.
4. Be sure to use only a 4 A "slow blow" fuse. Place one end of the new fuse into the back side of the fuse-holder cap, and gently push the other end of the fuse up and into the fuse holder.
5. Screw the black fuse-holder cap back into place by turning in a clockwise direction (left to right) until snug (1/4 to 1/2 turn), and release.

6.5 Replacing Batteries in the 7300/ 7350 Remote Control



28 Remote Control Battery

① Finger Tab
② Square Hole
③ Battery Compartment
④ Alignment Tab

1. To remove the battery compartment cover on the rear of the remote, pull back on the finger tab and lift.
2. Match the (+) and (–) markings on the batteries to the (+) and (–) markings inside the battery compartment.
3. To close the battery compartment cover, place the alignment tab located opposite the finger tab into the square hole on the back of the remote. Push the cover down until the finger tab clicks into place.

6.6 Fixing a Stuck Lid

NOTICE: DAMAGE HAZARD: If the EPDM rubber vent lid seal is damaged or torn, contact the Dometic Customer Support Center.

1. Open the vent lid all the way.
2. Place a liberal amount of denatured or rubbing alcohol on a clean rag to clean the underside of the vent lid and the EPDM vent lid rubber seal.
3. If available, apply a water-based (not petroleum-based) protectant to the inside of the vent lid where the lid and seal meet. Allow the protectant to dry and buff the lid with a soft cloth to a high sheen.
4. Use a clean rag, paper towel, or foam trim brush to apply an even coating of 100% silicone to the entire top surface of the EPDM rubber vent lid seal to prevent it from sticking to the vent lid.
5. Wash hands thoroughly with soap and water.

7 Troubleshooting

Problem	Possible Cause	Recommended Solution
The remote control does not produce a response.	The fuse in the vent fan has blown.	Replace the 4 A “slow blow” fuse.
	The remote control batteries are weak or expired.	Replace the 2 AA batteries.
	Bright light is blocking the infrared signal to the vent fan.	Hold the remote control closer to the vent fan.
The wall control does not produce a response.	The cable wire is disconnected at the wall control or the vent fan.	Reconnect and test the cable.
	The wall control has exceeded its functional lifespan.	Replace the wall control.
The vent lid sticks when raised.	The EPDM rubber vent lid seal is damaged.	Contact the Dometic Customer Support Center.
The vent lid does not open or close when raised or lowered electronically.	The vent fan motor/lift system may be damaged.	Contact the Dometic Customer Support Center.
	A foreign object is obstructing the vent lid.	Remove the obstruction.
	The fuse in the vent fan has blown.	Replace the 4 A “slow blow” fuse.
The vent lid is slow or noisy when raised or lowered electronically.	The vent fan motor or lift system is under strain.	Release the RAISE/ LOWER switchpad when the vent lid reaches a maximum limit.
	A foreign object is obstructing the vent lid.	Remove the obstruction.
The fan does not ventilate efficiently.	The fan is dirty.	Clean the fan.
The fan is noisy.	The fan is dirty.	Clean the fan.
The vent fan leaks when the vent lid is closed.	The roof seal may be cracked.	Inspect the seal and reseal, if necessary.

Problem	Possible Cause	Recommended Solution
The vent fan leaks when the vent lid is closed (continued).	The vent lid may be cracked.	Inspect the vent lid, and replace if necessary, or contact the Dometic Customer Support Center.
	The fan base may be cracked.	Inspect the fan base, and replace if necessary, or contact the Dometic Customer Support Center.

8 Disposal

Place the packaging material in the appropriate recycling waste bins, whenever possible. Consult a local recycling center or specialist dealer for details about how to dispose of the product in accordance with all applicable national and local regulations.