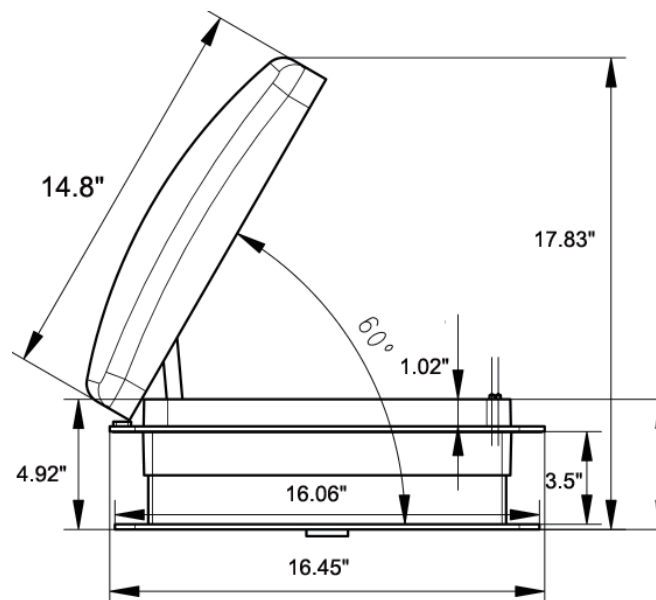
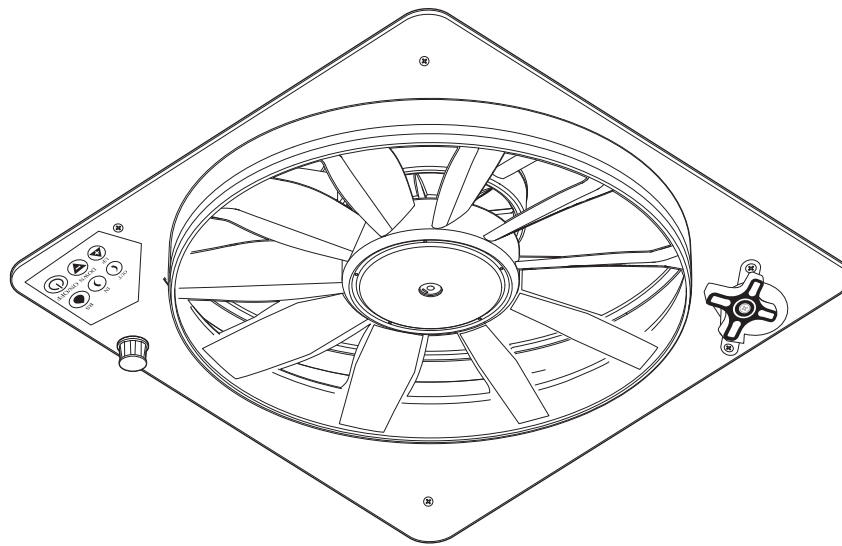


RV Ventilation Fan

Installation Instructions & Operating Guide



Use only 12V power supply! Connecting the fan to the 220V power supply can damage the internal circuit board. If necessary, consult a professional electrician for wiring assistance.

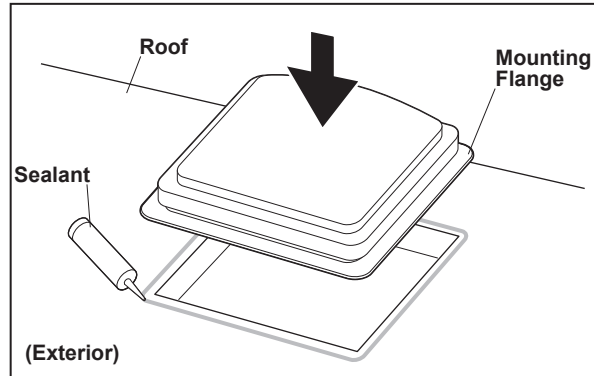
1. INSTALLATION

FALL HAZARD:

Vent fans are normally located on the roof of an RV. It is inherently dangerous to climb onto the roof of an RV to perform installation, maintenance, or repairs on a vent fan.

Take appropriate precautions when climbing onto the roof of an RV or when working on the roof of an RV. Failure to do so could result in a fall, causing serious injury or death.

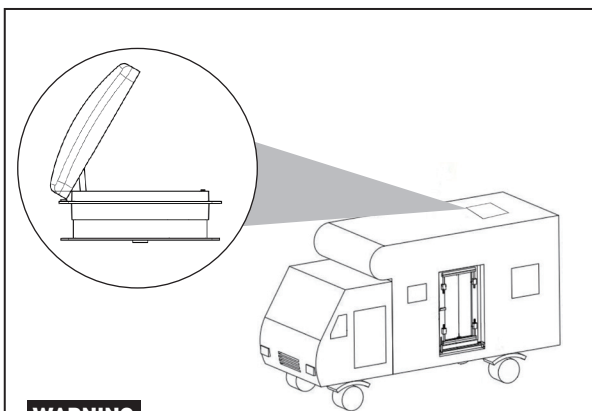
1.1 Vent roof mounting



Position the vent over the opening in the RV roof.

- Use a gasket or compatible sealant between the mounting-flange bottom and the roof.
- Use 16 NO. 16 self-tapping flat-head screws (3/4"-1") to mount the vent to the roof.
- Apply additional sealant over the screws and at the mounting flange where it meets the roof.

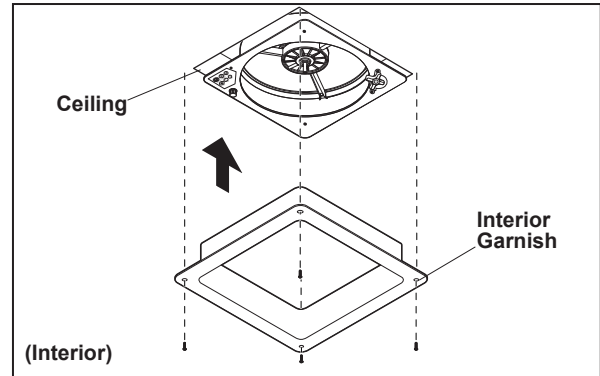
For rubber roofs, use EPDM-compatible roof sealant.



WARNING

INSTALLATION DIRECTION: The opening direction of the fan must be opposite to the front of the car. If it is not installed according to the installation method, in severe cases, the airflow may lift the fan cover when driving at a high speed! Cause product breakage and damage!

1.2 Fan mounting



- After the ceiling fan has been mounted and wired, install the interior garnish with the screws provided. The garnish may be trimmed for thinner roofs.

WARNING

SHOCK HAZARD: This product is designed for 12V DC use only. Do not connect the unit to 110V AC. Failure to follow this instruction could result in death or serious injury.

WARNING

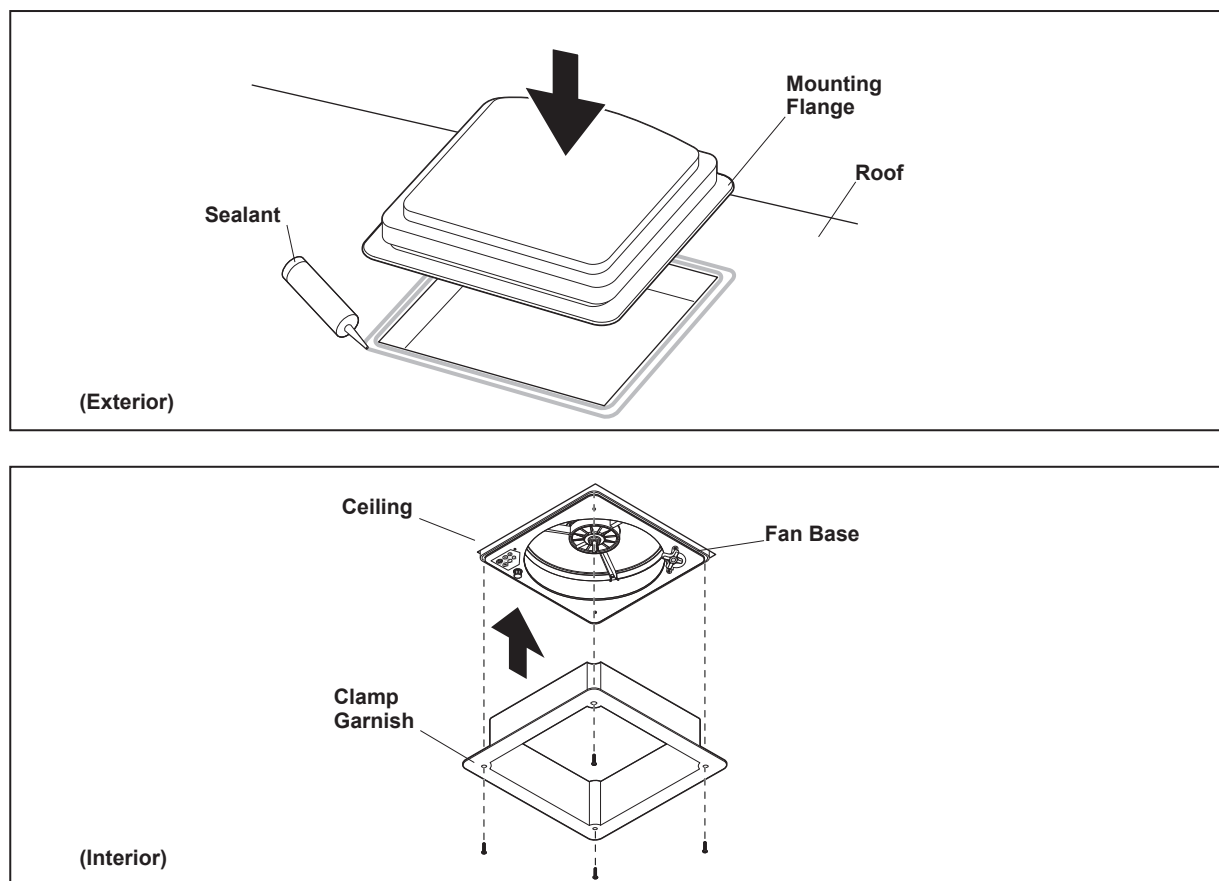
SHOCK HAZARD: Disconnect the 12V DC power supply prior to installation. Failure to do so could result in mild-to-moderate injury.

NOTICE

DAMAGE HAZARD: The Vent fans is designed to run on filtered DC power supply. Do not connect this unit to unfiltered DC power supply. Doing so could result in circuit board failure.

- Make all electrical connections to an appropriate 12V DC power source.

1.3 Clamp-fan mounting



All vents are available in a “clamp fan” configuration. The clamp garnish is screwed into the fan base from inside the RV, against the ceiling cutout.

NOTICE

RV clamp fans require mounting screws and correct-height garnish.

- Vent fits in standard 400mm x400mm RV roof openings.
- Use compatible double-bead sealant between the fan base mounting flange and the roof (no putty tape, butyl or gaskets are to be used with clamp fans).
- Use the four screws provided, mount the clamp garnish to the ceiling of the RV. Do not overtighten the screws.
- Tighten all screws evenly. Do not overtighten.

NOTICE

For rubber roofs, use EPDM-compatible roof sealant.

- This vent is using a 5A slow-melt fuse. For replacement, a new fuse with the same amperage is required.
- Disconnect main vehicle power before connecting 12 volt DC power to the ventilator.

2. INSTRUCTIONS FOR USE AND OPERATION

Failure to obey the following instructions could result in injury or property damage:

- **WATER DAMAGE/LEAK HAZARD:**

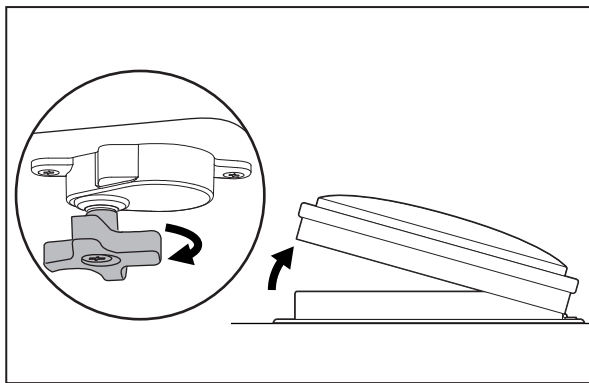
- Do not leave the vent lid open and unattended for extended periods of time, otherwise leakage and serious damage will be caused under unusual weather conditions.
- Do not use this product in inclement weather.

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

NOTICE 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.

2.1 Manual Lift Vents

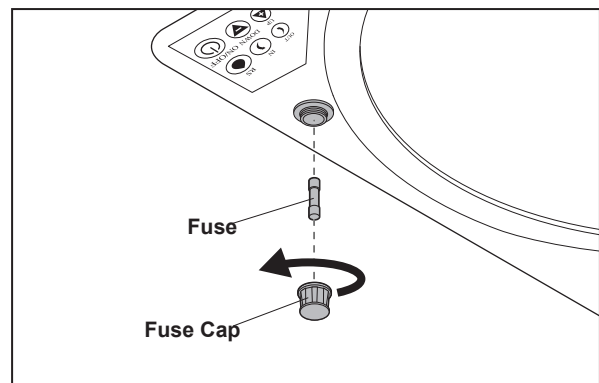


➤ To manually open or close the lid on your RV ventilation fan, grasp the black hand-knob and turn it in the desired direction .

CAUTION

PINCH HAZARD: Do not pull down on the knob. Doing so could damage your fan or cause physical injury.

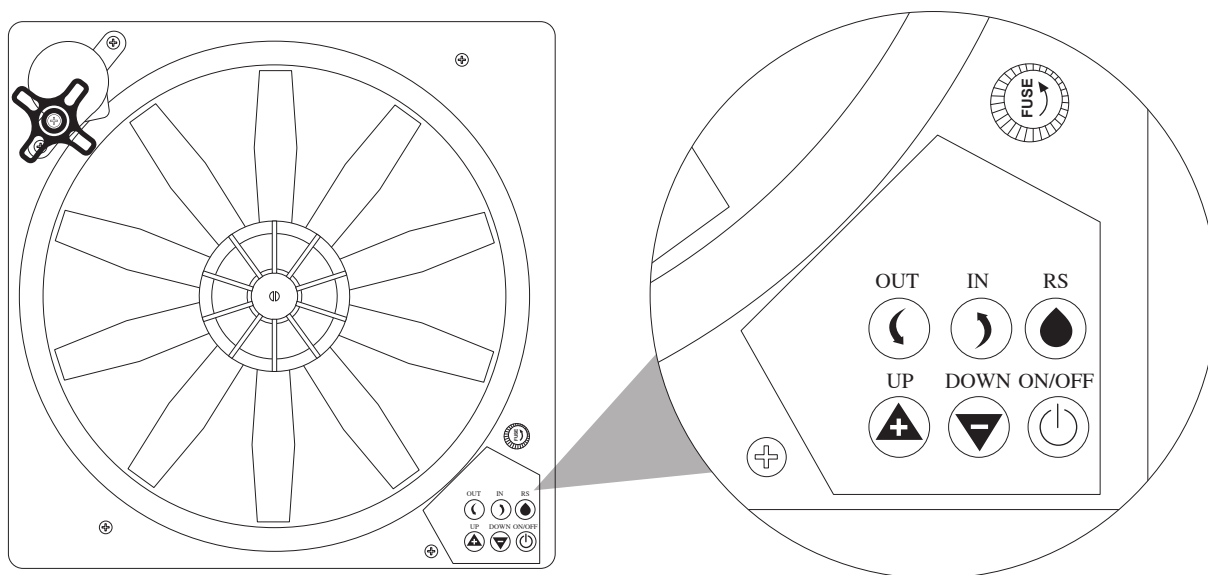
2.2 Replacing the fuse









- Locate the black cap on the face of the screen assembly. Twist the cap in a counter-clockwise direction (from right to left) 1/4 to 1/2 turn, and gently pull down the cap. The cap should come free with the fuse attached to the backside.
- Inspect the fuse to see if the wire inside the glass is broken and replace if necessary. Be sure to use only a 5A slow blow fuse.
- Place one end of the new fuse into the backside of the fuse-holder cap and gently push the other end of the fuse all the way up inside the fuse holder.
- Screw the black fuse cap back into place by turning in a clockwise direction (left to right) until it is tightened (1/4 to 1/2 turn), and release.
- We will give a fuse as a replacement (generally not damaged)

3. INTRODUCING THE CONTROL PANEL

NOTICE When in start mode, the rain sensor is off (Need to press Rain Sensor button to start this function). The RS LED is on to indicate that the Rain Sensor function is working.

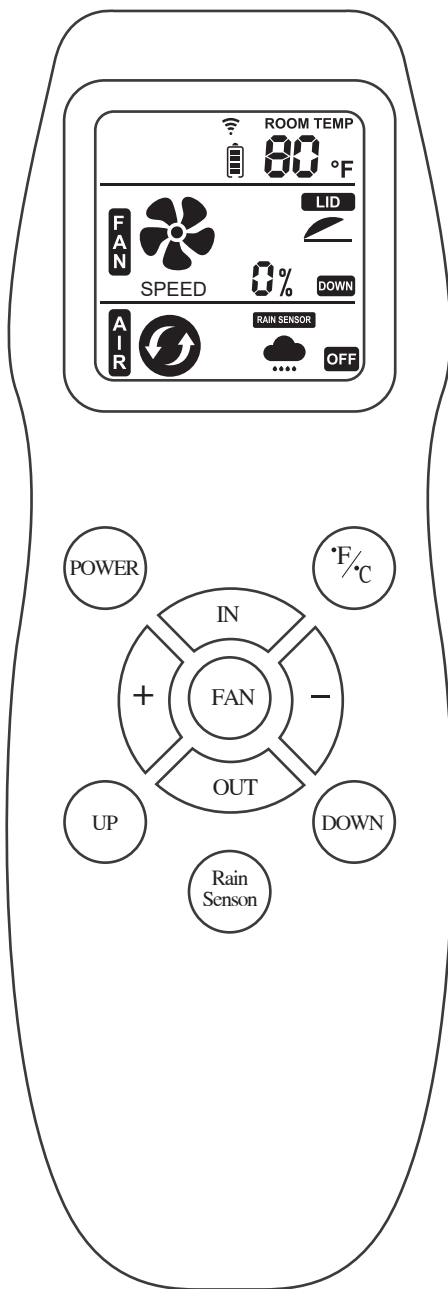


Name	Function
 OUT	Air OUT (Adjusts the fan speed from 10% to 100% (10 speeds))
 IN	Air IN (Adjusts the fan speed from 10% to 100% (10 speeds))
 RS	Press RS button to turn/off the rain sensor. When the rain sensor is on, the LED will light up.
 UP	Press UP button to open the lid.
 DOWN	Press DOWN button to close the lid.
 ON/OFF	Turn on the fan motor , the vent system will be running at the speed selected last time.

4. REMOTE CONTROL OPERATION INTRODUCTION

NOTE: If your remote is not working. First, please disconnect RV roof fan from main vehicle power. Second, reconnect the power and reprogram it by pressing POWER button on the Fan and pressing RS button on the remote at the same time or 4 seconds.

4.1 Introduction of remote control buttons



1. Press **FAN POWER** button to turn on/off the fan power.

2. Press "**+**" button, the fan blades turn clockwise and air out at 10% Speed; Press it again for more Speed options (Adjusts the fan speed from 10% to 100% (10 speeds)) ;

3. Press "**-**" button, the fan blades turn counterclockwise and air in at 10% Speed; Press it again for more Speed options (Adjusts the fan speed from 10% to 100% (10 speeds)) ;

4. Press **UP** button to open the lid.

5. Press **DOWN** button to close the lid.

6. Press the **FAN** button to turn fan motor **OFF/ON** at any selected speed.

7. Press **RAIN SENSOR** button to turn ON/OFF the rain sensor. When in start mode, the rain sensor is off (Need to press Rain Sensor button to start this function)

8. Press and hold the **F/C** button (3~5 seconds) to switch the temperature display mode;

NOTE: The lid can't be opened when the rain sensor senses water on the fan. Please turn the Rain Sensor function off if you want to open the lid.

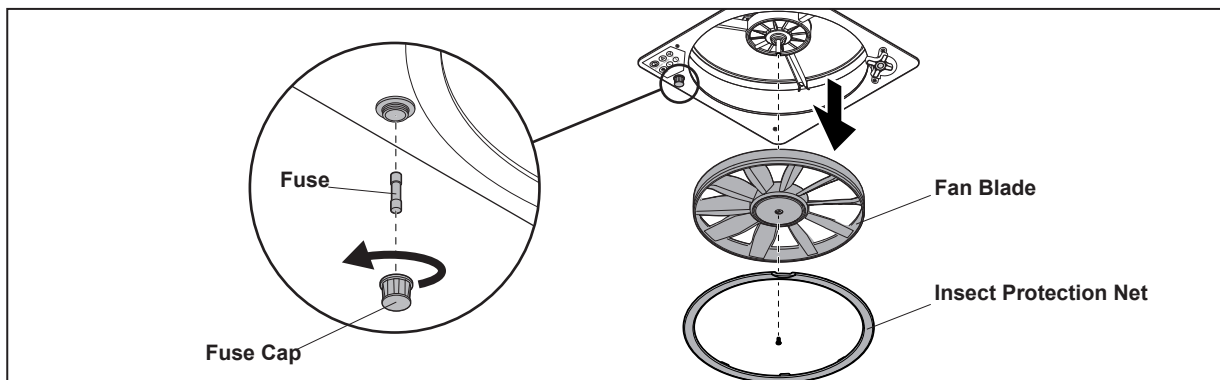
5. MAINTENANCE

5.1 Fixing a stuck lid

NOTE: DAMAGE HAZARD: If the EPDM rubber dome seal is damaged or torn, contact us for a replacement.

- Fully open the dome/lid.
 - Place a great amount of denatured or rubbing alcohol on a clean rag and clean the underside of the lid and the EPDM rubber seal.
 - If available, apply a water-based (not petroleum-based) protectant to the inside of the dome where the dome and seal meet. Allow the protectant to dry and buff the lid with a soft cloth to a high sheen.
 - 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 dome seal to prevent it from sticking to the lid.
- Wipe excess fluid off hands and wash thoroughly with soap and water.

5.2 Cleaning the fan



- Step 1: Remove the Insect Protection Net. Remove the fuse. Then grasp the finger clasp with one hand and pull the Insect Protection Net straight down and remove it. Support the control panel with your other hand to prevent breaking. Removal can be difficult at first, but it becomes easier with repeated removals.
- Step 2: Remove the fan blades. Hold the fan blade with one hand to prevent it from turning, and then remove the screw from the center hub surface of the fan blade. After removing the fan screw, hold each side of the fan blade with both hands and pull it down with force. You may need to swing the fan blade up and down and from side to side until it slips off the motor shaft.
- Step 3: Clean. Use window cleaner or non-abrasive dish soap and warm water to clean the Insect Protection Net and fan blades. You can also place the Insect Protection Net and fan blades in the top rack of the automatic dishwasher. Optional: Once the screen and blade are cleaned and dry, wipe or spray a water-based (not petroleum-based) protectant on the screen and blade, and buff to high gloss. This minimizes dust and dirt build-up and simplifies future cleaning.
- Re-assemble the fan by reversing the appropriate steps above

6. QA SUMMARY

6.1 Common installation problems

1. Installation direction: The opening direction of the fan must be opposite to the front of the car. If it is not installed according to the installation method, in severe cases, the airflow may lift the fan cover when driving at high speed! Cause product breakage and damage!

6.2 Installation Guide

1. Select the ventilation location closest to the 12V power supply. If pre-wired by the manufacturer, check that the voltage and fuse are correct.
2. Route the power cord through the roof for best installation.
3. Remove the 400mm*400mm vent from the roof and drill a 1/16" pilot hole at the location of the 16 selected screw holes.
4. Place tape around the rough opening in the roof, 1/2" (1.27 cm) from the edge of the rough opening. (Make sure the tape covers the entire area that needs to be sealed.) If necessary, use a double layer of putty to seal the ribbed Area
5. Apply a suitable roof coating to your roof surface, screw heads and vent frame edges
6. Connect the ventilation wires to the RV power supply using 2 wire nuts (open the dome and turn on the fan to confirm airflow direction; reverse the wires if necessary).

6.3 Precautions

1. This vent uses a 2A slow-melt fuse. For replacement, a new fuse with the same amperage is required.
2. Use only 12V power supply! Connecting the fan to the 220V power supply can damage the internal circuit board. If necessary, consult a professional electrician for wiring assistance.
3. Do not leave the ventilation cover open and unattended for a long time. Strong winds or other unusual conditions can cause leaks and/or serious damage!
4. Disconnect the main power supply of the vehicle before connecting the 12V DC power supply to the ventilator.

7. FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction