

TRA Australia

RV ROOF VENTILATION HATCH

TRA-RVM-FLEX - Manual Version with Built-In Rain Shield

Model	TRA-RVM-FLEX
Supply	12V DC only
Roof cut-out	360 x 360 mm
Roof thickness	40-200 mm
Fan control	Reversible IN / OUT, variable 10%-100%
Lid	Manual lift with built-in rain shield

IMPORTANT: Use only a 12V power supply. Red cable is positive; white cable is negative.

TRA Australia recommends professional installation by an appropriately licensed installer. Warranty does not cover faults or damage resulting from incorrect installation, including water ingress, electrical damage or damage caused during installation.

Installation Instructions & Operating Guide

1. INSTALLATION

Fall hazard: Roof work is inherently dangerous. Use appropriate precautions and equipment whenever working on the roof of an RV.

1.1 Vent Roof Mounting

- Position the vent over the prepared roof opening.
- Use a gasket or compatible sealant between the mounting flange and the roof.
- Use 16 No. 16 self-tapping flat-head screws, 3/4-1 inch, to mount the vent to the roof.
- Apply additional sealant over the screws and at the mounting flange where it meets the roof.
- **External flange protection:** The external plastic housing/mounting flange should be completely sealed and covered with a suitable compatible sealant. Leaving the plastic exposed to weather and UV over time can cause it to become brittle and may result in cracking or breakage.
- For rubber roofs, use an EPDM-compatible roof sealant.

Sealant Compatibility

Use sealants compatible with the vent plastic and the RV roof material. Do not use products that may chemically attack or damage the plastic.

1.2 Fan / Interior Garnish Mounting

- After the ceiling fan assembly has been mounted and wired, install the interior garnish using the supplied screws.
- The garnish may be trimmed to suit the roof thickness.
- Do not overtighten mounting screws.

Electrical Connection

Disconnect the vehicle's 12V DC power supply before installation or wiring. Connect the ventilator to an appropriate protected 12V DC circuit. Red wire is positive (+); white wire is negative (-).

1.3 Clamp-Fan Mounting

- Where a clamp-fan configuration is used, the clamp garnish is screwed into the fan base from inside the RV against the ceiling cut-out.
- Use the four screws provided to mount the clamp garnish to the ceiling.
- Do not overtighten the screws.
- Tighten all screws evenly.

2. INSTRUCTIONS FOR USE AND OPERATION

Failure to follow operating instructions can result in injury or property damage.

- Do not leave the vent lid open and unattended for extended periods where water entry may occur.
- Do not use this product in inclement weather unless the lid/rain-shield configuration is being used as intended.
- Slightly open windows on the shaded side of the RV to help provide comfortable ambient airflow on hot days.
- Direct airflow by opening a window on the side from which you want the greatest airflow.
- If driving while the vent is open, keep it fully open to reduce fluttering or unexpected closing.

2.1 Manual Lift Vent

To manually open or close the lid, grasp the black hand knob and turn it in the desired direction. Keep fingers clear of moving/pinch points.

3. CONTROL PANEL

Control	Function
OUT	Selects extraction mode - air is exhausted from the RV.
IN	Selects intake mode - air is drawn into the RV.
ON/OFF	Turns the fan motor on or off. The fan resumes at the selected speed setting.
Speed +	Increases fan speed, adjustable up to 100%.
Speed -	Reduces fan speed, adjustable down to 10%.

The fan provides reversible airflow and variable speed adjustment from approximately 10% to 100% in both IN and OUT modes.

4. MAINTENANCE

Cleaning the Fan

Step 1: Disconnect the 12V power supply before cleaning or servicing.

Step 2: Remove the insect protection net. Support the control panel while removing it to avoid damage.

Step 3: Remove the fan blades. Hold the fan blade while removing the retaining fastener, then remove the blade from the motor shaft.

Step 4: Clean the window/vent cover with a non-abrasive cloth, soap and warm water.

Step 5: Clean the insect protection net and fan blades. They may be cleaned carefully by hand; ensure all parts are completely dry before refitting.

Step 6: Reinstall the fan blade, insect protection net and other removed components in the reverse order.

General Care

- Periodically inspect the exterior sealant and mounting area for deterioration, gaps or cracking.
- Keep the external plastic housing/flange fully protected by compatible sealant.
- Do not operate the unit if wiring, fan blades, controls or mounting components appear damaged.
- Keep the insect screen clean to maintain airflow.

Installation & Warranty Reminder

TRA Australia recommends professional installation by an appropriately licensed installer. Warranty does not cover faults or damage resulting from incorrect installation, including water ingress, electrical damage or damage caused during installation.

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This clean-format guide has been prepared from the supplied TRA-RVM-FLEX instruction sheet. Where installation conditions differ, use an appropriately licensed installer and verify suitability for the specific RV construction.