

Work Instruction: Ventilation Fan Installation (E13 Trailer)

1. Purpose

This work instruction explains how to install a ventilation fan on Escape 13' trailer. Adding this fan helps the refrigerator cool down better and keeps ventilation through the fridge compartment.

2. Safety and Preparation

- Ensure 120V shore power is unplugged and 12V battery is disconnected
- Ensure the LP gas valve at the tank is closed
- Allow the refrigerator to cool completely before beginning work

3. Equipment and Materials

Tools

- Power Drill
- ½" drill bit
- #2 Robertson bit
- #1 Phillips bit

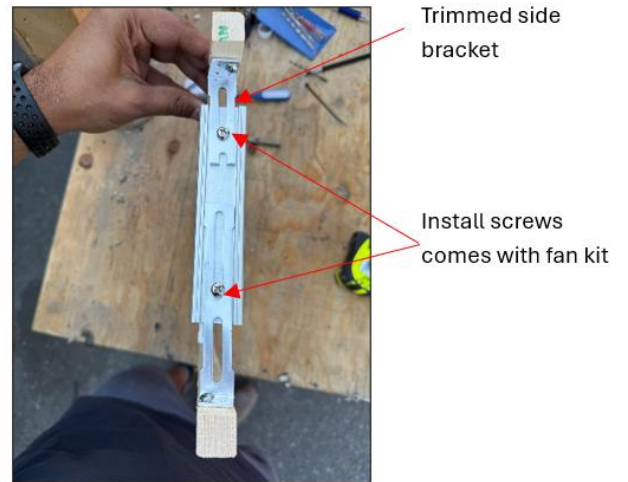
Material Kit:

- Ventilation Fan Kit (ETI-07450, Qty:1)
- Rubber cable clamp (ETI-01699, Qty:4)
- Zip tie (ETI-01788, Qty:3)
- #8 X 5/8" screws (ETI-02115, Qty:10)
- #8 X 1-1/2" construction screws (ETI-01763, Qty:10)
- Cable clamp (ETI-00772, Qty:1)
- Cable clamp (ETI-0770, Qty: 1)

4. Procedure

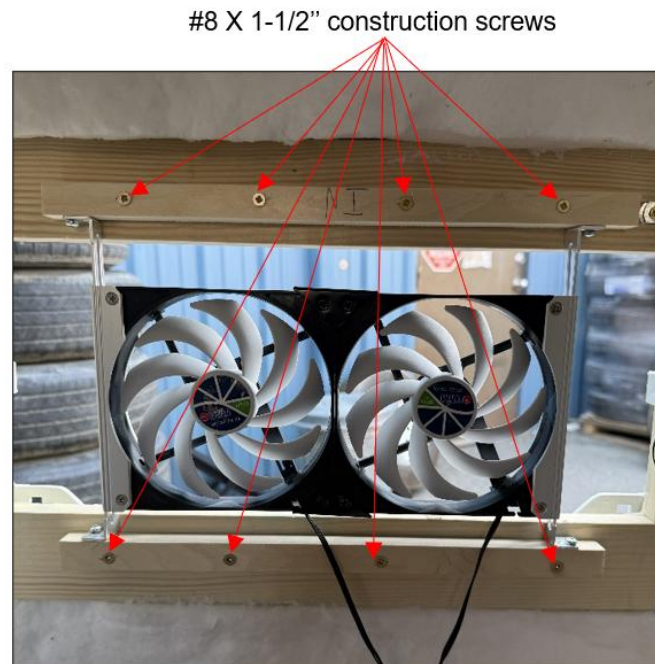
4.1 Install ventilation fan on 1 x 1 wood strip

- Lay the two 14" long 1 x 1 wood strips flat and parallel on the work bench
- Place the fan unit with its trimmed side brackets between the **two** wood strips
- Space the wood strips so there is exactly an **8"** clear opening between them
- Center the fan assembly horizontally along the length of the wood strips
- Drill small pilot holes through the bracket mounting slots into the 1 x 1 wood strips to prevent splitting and secure the brackets to the wood strips using 5/8" pan-head wood screws



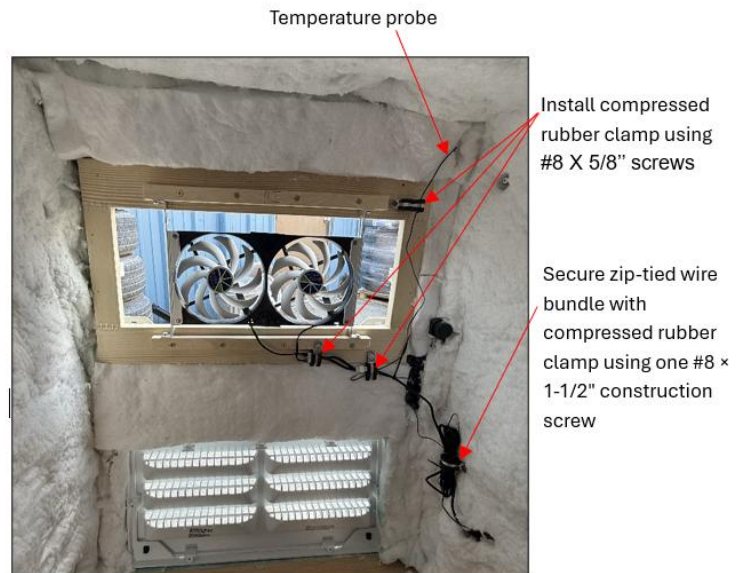
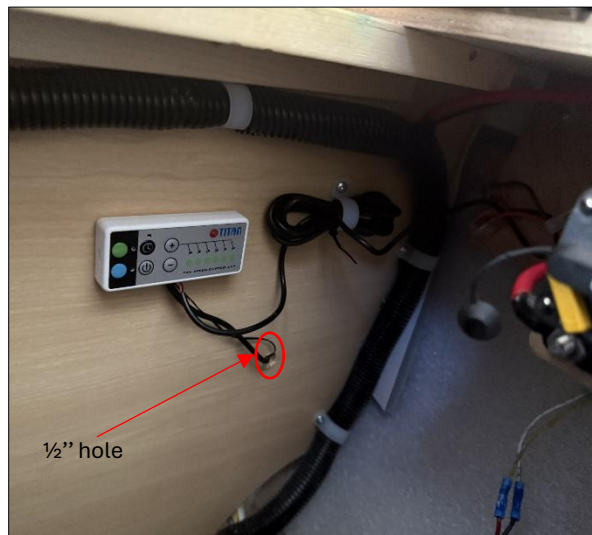
4.2 Mount ventilation fan to the Upper fridge vent

- Remove the fridge and upper fridge vent outside cover
- Lift the entire fan and wood assembly into the vent frame opening as a single unit
- Secure the wood strips directly to the vent frame by using eight 1-1/2" screws



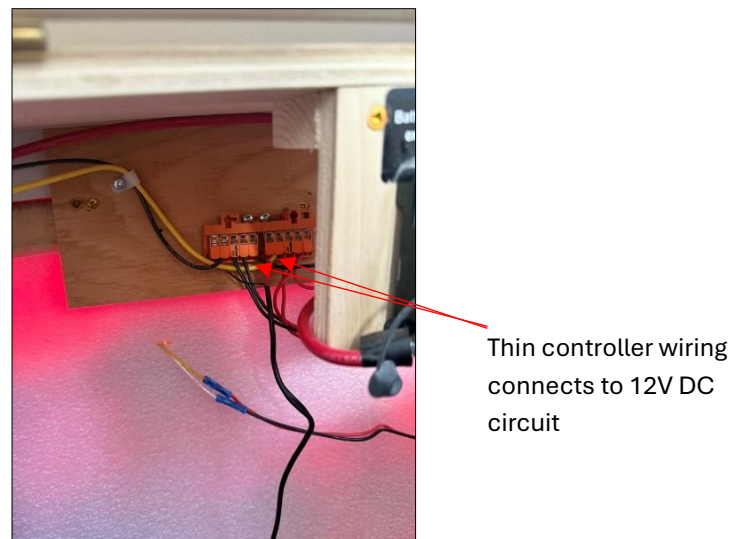
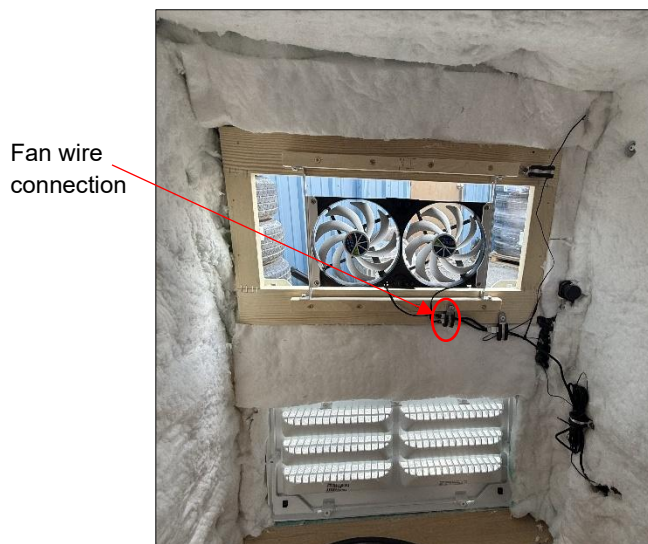
4.3 Route the wires and sensor

- Drill a 1/2-inch hole through the fridge wall, close to the wire routing location, to pass the wires through.
- Feed the fan wire and the temperature sensor probe through this new hole.
- Mount the temperature sensor probe near the very top of the fridge compartment and secure fan wires using provided rubber cable clamps and #8 X 5/8" screws.
- Bundle extra fan wires using zip tie and secure to fridge wall using rubber clamps and #8 X 1-1/2" construction screw in fridge compartment.



4.4 Connect the power and controller

- Plug the fan wires into the controller wires using the built-in locking connector
- Locate the 12V DC power lines located under the bench dinette seat
- Connect the thin controller wires directly into this 12V DC power circuit



4.5 Mount the controller

- Peel and stick the double-sided tape (included in the kit) onto the back of the controller
- Press the controller firmly against the wall under the bench dinette to mount it
- Gather any loose, hanging wire and bundle it neatly with zip tie, plastic cable and #8 X 5/8" screw to keep it safe from pulling or tangling



4.6 Test and set the temperature

- Turn the trailer's power back on
- Switch the fan controller to **Manual** mode to make sure the fan turns on and blows air correctly
- Once you know the fan works, switch the fan controller over to **Auto** mode