

How To Guide

2016 E-trek



HOW TO: Water System Winterizing

Do you really need to winterize?



If your Roadtrek is going to remain heated to comfortable temperatures, and the temperatures during the day are well above freezing (above 40 deg. F or above 4 deg. C) and the forecast is for temperatures just below freezing for a few hours at night with calm winds, then you don't need to winterize. The heat in your Roadtrek is enough to keep the lines from freezing.



If the forecast is for extended cold periods, with daytime temperatures at or below freezing, if you're not heating your Roadtrek, or if you expect sustained winds and the roads and ground is already frozen, you need to winterize.



As always, you are final judge and you need to do what is comfortable and makes you feel good. If you are not comfortable with leaving water in your lines when it gets cold, and you will sleep better, go ahead and winterize.

Winterizing the E-Trek



Typical non-toxic RV
antifreeze



Fresh water tank drain valve

You will need:

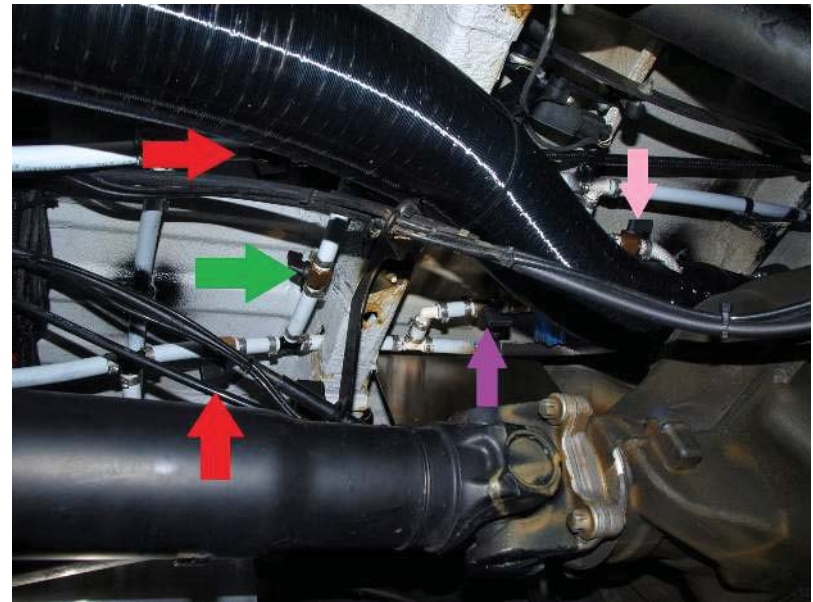
1. four gallons of pink RV antifreeze
 2. Replacement filter for the hot water dispenser
 3. A place to dump a small amount of water and non-toxic antifreeze
- Take your vehicle to a wastewater dump location, and dump and rinse your black and gray water tanks completely.
 - Turn off the water pump.
 - Empty the fresh water tanks by opening the locating the valve under the passenger side front door running board, just behind the front wheel. This valve is not visible from the side of the E-Trek, and will require you to get down and look underneath the front passenger door step. The valve has a black plastic handle which points across the water line when closed, and along the line when open. Open this valve and allow the fresh water in the tank to drain out onto the ground.

- Open the sliding side door, remove the wood panel, and open the city water valve. Turn this valve so that the black plastic handle is pointed in the same direction as the water line.
- Allow air to enter the system by opening the galley faucet and the hot and cold bathroom sink faucets. This will drain the lines from these faucets to the water pump.
- Press and hold the hot and cold handles on the instant hot water dispenser until no more water comes out.
- Close the city water valve by turning it 90 degrees so that the black plastic handle is across the water line.
- Close the galley sink and bathroom sink faucets.
- Close the fresh water tanks drain under the passenger side front door running board (black handle should be perpendicular to water line).



City water valve (shown closed)

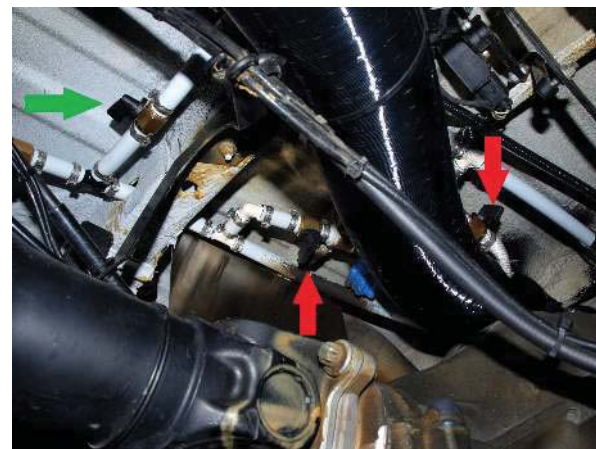
- Locate the Webasto diesel-fueled hot water unit underneath the vehicle. It is immediately behind the center of the rear axle (the differential). There are two air ducts on the front side of the unit, near the top. There are also two white water lines coming rearward from the front of the Roadtrek, one on each side of the centerline. Just before these lines get to the Webasto unit, there is a transverse white hose connecting them, with a valve on it. This is the shunt valve. To winterize, you open the shunt valve, and close the two valves on the hot and cold lines going into the Webasto **BETWEEN THE SHUNT (TRANSVERSE) LINE AND THE WEBASTO UNIT**. There may be other valves on the hot and cold lines forward of the transverse white hose connecting the two water lines - **DO NOT TURN THESE VALVES**. (see photos right and below). The valve on the line between the transverse line and the Webasto unit leading to the blue overpressure relief valve is the cold side bypass valve. Turn all three valves 90 degrees so the shunt valve handle is pointed along the water line (open) and the cold and hot line valve handles are across the line (closed).



Wide view of the valves on the water lines forward of the Webasto unit in normal, non-winterized mode. The two valves (red arrows) forward (left) of the shunt valve (green arrow) are to be left open whether the system is winterized or not. The hot (pink arrow) and cold (purple arrow) valves between the transverse shunt line and the Webasto unit are open normally, closed when winterized. The shunt valve is closed normally, open when winterized.



Webasto line valves in normal operating position. Green arrow means valve is open, red closed.

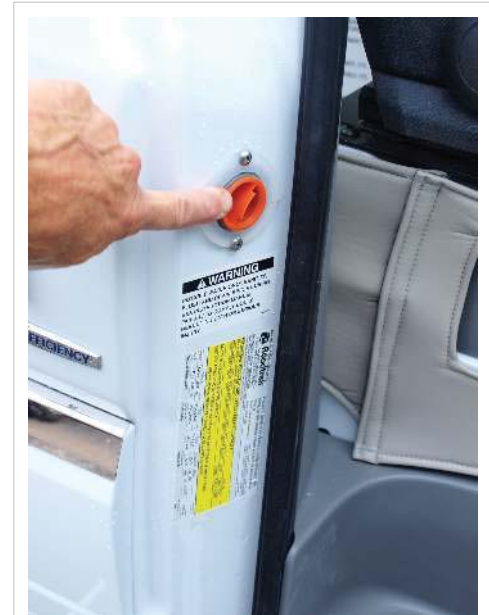


Webasto line valves in bypass position. Green arrow means valve is open, red closed. Front of vehicle is to the upper left.

- Open the passenger side front door, remove the orange plug from the fresh water fill in the doorsill, and pour two and a half gallons of RV water system antifreeze into the fill port, using a funnel. You will need a the remaining antifreeze for the drains and wastewater system, so purchase four to complete the winterization process.

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- Turn off the breaker in the 120 volt circuit breaker box which powers the instant hot water heater.
- Turn on the water pump.
- Turn on the cold water in the galley sink until pink RV antifreeze emerges from the faucet. Close the faucet.
- Press the toilet flush pedal until pink antifreeze comes out.
- Turn on the bathroom sink cold water faucet until pink RV antifreeze emerges from the faucet. Close the faucet.
- Press and hold the cold handle on the instant hot water dispenser until undiluted pink RV antifreeze emerges from the faucet. Then do the same thing with the hot handle. You will be filling the hot water reservoir with antifreeze, which takes approximately a gallon, so this may take some time.
- Open the city water valve for about 60 seconds to flush the water fill line with antifreeze.
- Turn the water pump off. Open a faucet to relieve pressure.
- In the cabinet under the convection oven there is a water filter for the instant hot water dispenser. After running antifreeze through the system, twist and remove this filter. Empty the contents of this filter into the sink, then reinstall the old filter. Buy a new filter to have on hand for dewinterizing in the spring, but do NOT install it until you have purged all the antifreeze from the system. This filter should be replaced annually, so it's most convenient to replace it at the time of dewinterizing.



Water tank fill location



Webasto control



Instant hot water filter

- Locate the Webasto unit control on the cabinet face behind the television. Turn the left knob to the dump position (all the way counterclockwise). Open the galley sink hot water faucet to allow air into the hot water system. It will take approximately 10 to 15 minutes for the unit to drain completely. The Webasto unit will reset after 90 minutes to close the dump valve.
- Turn on the water pump. Open the galley sink hot water faucet until antifreeze emerges. Do the same for the bathroom sink.
- Pour a half gallon of antifreeze down the sink into the gray water tank. This will be used to winterize the waste water disposal pump.
- Empty the black water tank by flipping up the front and middle flaps along the bottom of the driver's side, extending and weighting down the waste water discharge hose, opening the valve at the end of the waste water discharge hose, opening the black water tank valve by pulling the black handle, pressing the red button on the side of the driver's seat pedestal until no more water is discharged from the waste water discharge hose, and closing the black water tank valve. Either do this at a dump station or catch the discharge and dispose of it properly - it may contain debris from the black water tank.
- Open the gray water tank valve, press the red button again until no more water is discharged from the waste water discharge hose, close the gray water tank valve, and replace the waste water discharge hose. If you have emptied your gray and black water tanks before starting the winterization process, you should only get a small amount of water and antifreeze out of the hose.
- Divide the remaining antifreeze equally between the shower drain, the bathroom sink drain, and the galley sink drain.
- Open the fresh water tank drain line briefly until antifreeze flows out.
- Turn the water pump off.