

How To Guide

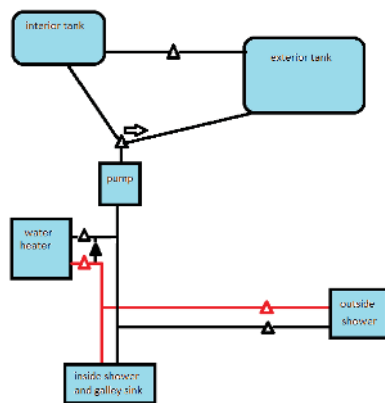
2016 210 Popular



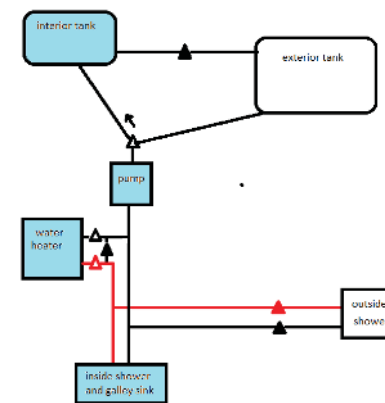
HOW TO: Summer and Winter Mode

Summer and Winter Mode

The 190 and 210 Popular models have the capability to operate in mildly sub-freezing conditions, provided the water system is properly configured. To better understand this it is best to know how the plumbing is configured. The diagrams below show how water is supplied in each mode. Solid triangles are closed valves; hollow triangles are open valves.



Fresh water system in summer mode



Fresh water system in winter mode

In summer mode, both fresh water tanks are in use. The interior tank is inside the vehicle and is filled via the gravity fill in the back door frame, and the exterior tank is below the vehicle, and filled via the gravity fill in the driver's door post. The water line between the two is open, so water flows from the higher interior tank to the lower exterior tank as the water pump draws water from the exterior tank.

In winter mode, the line between the two tanks is closed, and the exterior tank is drained to prevent it from freezing. The outside shower water lines are closed and drained to prevent them from freezing, and the water pump draws water from the interior tank, which is protected from freezing by cabin heat. The hot water heater will also not freeze if left running. In this way, hot and cold running water continues to be supplied to the galley sink, toilet, and shower.

"Winter mode" and "winterized" are two different things. Winter mode protects the water in the system from mildly sub-freezing conditions as long as the Roadtrek is adequately heated and in use. If you plan extended stays in sub-freezing conditions or if you store your vehicle in freezing conditions, you must winterize to avoid damage to the water system. To prepare your vehicle for really cold weather, see HOW TO: Water System Winterizing

- Open the lid on the side bench enclosure by removing the side bench's cushion and table to expose the hinged lid. Undo the Robertson head screw to raise the lid. Once you know where these valves are you can just open the access door on the front, but it's best to unscrew the top to give you a full view if you're not familiar with these controls.



Screw to open water valve enclosure



Lid raised to expose valves and water pump

Switching from Summer to Winter Mode

- Open the enclosure under the driver's side bench just to the left of the refrigerator, and close the tank isolator valve connecting the two fresh water tanks by turning the black plastic handle so that the handle is across (perpendicular to) the water line, pointing toward the rear of the vehicle. This valve is located inside the enclosure, under the driver's side bench.
- Drain the exterior tank by opening the valve under the driver's door step. The valve is open when the black plastic handle is aligned with the water line. It may take several minutes for the water to drain out. This is located under the driver's door step. To open the valve and drain the tank, turn the handle so that it points along the water line.
- Run the water pump briefly to drain water from the water line to the exterior tank, then switch the tank selector valve from the exterior to the interior tank.
- Close the two shutoff valves going to the outside shower faucet. These valves are visible through an access hole in the enclosure floor just to the rear of the other valves. To shut these valves, turn them so that the black plastic handles are across the water line.



Tank isolator valve in closed position (black plastic handle pointed toward the back of the vehicle).



Exterior tank drain



Tank selector valve in exterior tank position (colored plastic handle pointed toward driver's side of Roadtrek). Tank isolator valve is open, allowing water to drain from interior tank to exterior tank.



Tank selector valve in interior tank position, with the colored plastic handle pointed up. Tank isolator valve is closed, preventing water from flowing into the exterior tank.

HOW TO: Summer and Winter Mode

- Open the outside shower faucets to drain the water from the lines. There will be no water pressure; just let the small amount of water remaining in the lines dribble out. Leave these faucets open.

In winter mode, remember that you need to keep the interior temperature at least 60 degrees F (15 C) by running the propane furnace or heat pump, and keep the water heater running. Also remember that the waste water tanks are not protected from freezing. If you use them, mix pink RV antifreeze with whatever you put down the drain 50/50. If you do not use them, drain and winterize the waste water system.

Switching from Winter to Summer Mode

- Check to be sure the exterior tank drain valve under the driver's door step is closed, and fill the exterior tank using the gravity fill on the driver's door post.
- Open the tank isolator valve to connect the two tanks. In winter mode the handle is across the line - turn it so that the handle points along the line.
- Switch the tank selector valve from the interior to the exterior tank by moving it from the vertical position to a horizontal one pointing toward the driver's side of the vehicle.



Outside shower valves, shown closed



Outside shower valves, shown open



Tank isolator valve in open position (black plastic handle pointed along line). This valve is located inside the water control enclosure under the driver's side bench to the left of the refrigerator.



Exterior tank drain, located under the driver's door step. To open the valve and drain the tank, turn the handle so that it points along the water line.

HOW TO: Summer and Winter Mode



Tank selector valve on the left in closed or interior position. Tank selector valve on the right in interior tank position, with the colored plastic handle pointed up.



Tank isolator valve on the left in open or exterior position. Tank selector valve on the right in exterior tank position (colored plastic handle pointed to the driver's side of the Roadtrek).

- Open the two shutoff valves going to the outside shower by placing the handles parallel to the water lines, and close the outside shower faucet after running water through them briefly to flush air and any contaminants.



Outside shower valves, shown closed



Outside shower valves, shown open