

How To Guide RangerRT



HOW TO: Waste Water Dumping

Waste water storage and dumping

Your house is permanently connected to your septic system or a municipal sewer; you don't have to worry about the wastewater you generate because gravity takes it away. Your Roadtrek doesn't have that connection, and has to hold any wastewater until you have the opportunity to dump it at an approved dump station.



Most municipalities have severe penalties for improper disposal of human waste, especially into a watershed - fines can be several thousand dollars, and it's often a felony. Even if it's "just gray water", it will still flunk a coliform bacteria test because of the common discharge hose, which is difficult to explain to a judge. Never dispose of wastewater unless you're sure you are at an approved dump station.

Tanks

Your vehicle is equipped with a gray holding tank and a black holding tank. The gray tank holds the sink and shower water. The black tank holds the toilet waste. As a result, the black tank is a lot nastier than the gray tank.



Do not throw any paper towels, personal wipes, rags, baby wipes, tampons, hairballs, etc. into the toilet. The wastewater system is not capable of handling these types of solids and may clog up. Only use toilet paper that is intended for RVs or septic systems.



If in doubt, take a tissue, and leave it in a glass of water. Stir with a spoon a couple of times. If it falls apart into a gooey slurry after a few minutes it's safe for your tank. If it stays together, swells up, or clumps into a solid mass, it's not safe and should be disposed of in the trash and not down the toilet.



If possible, you want to dump the tanks after driving as the movement of the vehicle will have sloshed the water in the tanks, loosening any solids.



You should dump the black tank first, then the gray tank. The water in the gray tank is considerably cleaner, and will rinse any remaining solids from the hose. You should dump both tanks in sequence if possible.

Dumping the tanks

- Open the access door just to the rear of the driver's side door. This will expose the black and gray water valves. Support the door in the open position by using the support arm.
- Locate the R-shaped pin (spring type cotter pin) that retains the aluminum flap on the end of the waste water pipe. You can see this pin through the hole below the gray and black handles.
- Pull this pin loose - it won't get lost because it's on a retaining tether. Once the pin is out, swing the bottom of the flap toward you. The waste water pipe will drop a couple of inches as the flap clears the small rod attached to the pipe.
- Once the pipe is low enough to clear the bodywork, pull the end out slightly and undo the small black plastic cap on the end of the waste water hose. This lets air into the hose so you can extend it further. If you do not feel resistance as you pull the hose out, you probably left one of your waste water valves open, and should not remove either the small cap or the big hose end until you are as near the drain as possible. Check to make sure both the gray and black handles are pushed all the way in, and only loosen the small cap a small amount to allow air to bleed into the wastewater hose enough to extend it to the drain.



Gray and black tank valve handles



Waste water hose in stowed position



Pin you need to remove to raise the flap and lower the hose pipe



Waste water hose pipe in lowered position

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- When you have the wastewater hose extended to the drain, twist the end to detach the big cap from the lugs which hold it in place. Place the end of the hose down into the drain, weighting it with a rock or similar heavy object.
- Open the black water tank gate valve by pulling the black handle out.

⚠️ Open the valve slowly. Water is heavy, and if the tank is near full it will come out of the hose with surprising speed and force.

- After the black water tank is empty, close the black water tank valve by pushing in on the handle.
- Open the grey water tank gate valve by pulling the grey handle out.
- After the grey water tank is empty, close the gray tank valve by pushing it back in to the original position.

⚠️ Always dump the black tank first and the gray tank second. The graywater will help flush any remaining solids from the dump hose.



Waste water hose being pulled out of the pipe



Small cap at end of the hose removed to allow for hose extension



Hose extended toward the dump site



Retaining lugs for hose end - the end has already been twisted open

- Use the dumpsite rinse hose to clean the end of the hose.
- Replace the big cap onto the end of the waste water hose, twisting it to lock it into place.
- Push the blue waste hose back into the waste hose pipe.
- Once the hose is back in the pipe, replace and tighten the small black plastic cap on the hose end.
- Push the waste hose pipe upward until you can swing the flap back over so the hole in the flap goes over the small rod sticking out of the pipe. Put the R-shaped pin back through the hole in the end of this rod.
- Add about ½ gallon of fresh water to the black tank. While you're doing this, add a packet of black holding tank chemicals to the tank.



Do not toss the packet into the toilet, even if it claims to be `dissolvable`. It may not be dissolvable enough for the wastewater system. Tear open the packet and pour the contents into the toilet, and dispose of the packet in the trash. The contents of the powder packets can be irritating to your eyes and nose, so hold the packet low to the bowl and try to pour directly into the tank.



Pushing the wastewater pipe back up - the flap is over the end, and the pin can now be put through the hole in the rod.