



# Fuel Sump Maintenance

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## WARNING

*Rural Energy Enterprises, Inc. does not accept liability for the improper use of this information. Installation, service, and maintenance of heating equipment should be performed by a qualified technician. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life.*

When servicing a Toyostove, be sure to pay attention to the fuel sump, the piping from the fuel tank, and the fuel filter. Here are a few easy steps to follow:

1. Replace the fuel tank filter annually. Rural Energy strongly recommends a Golden Rod Water-Block Fuel Filter
2. Inspect the fuel line for kinks, leaks and bad flares. Repair as needed.
3. Pull the inlet strainer from the fuel sump.
4. Clean the inlet filter by spraying the filter from the outside in with carburetor cleaner (this should be done in a well-ventilated work area).



5.  With the screen removed, slightly open the service valve on the incoming fuel line. (This valve is not the fusible link valve. The fusible link valve is a fire safety device and should not be used for service). If no service valve is installed, now would be a good time to install one.
6. With the valve open, the fuel should freely come rushing out of the inlet screen hole. If the flow is diminished or the fuel coming out is dirty, the fuel line will need to be flushed out or replaced.
7. Drain the fuel out of the sump. Inspect the fuel for water contamination. If water is present in the sump, the tank and fuel line are contaminated as well. The tank will need to have the bottom pumped out to remove the contaminants, and the fuel line will need to be flushed.



8. Remove the fuel pump and sump top cover. Remove the 2 screws on the mounting bracket for the float assembly, (Pay particular attention to the way the mounting bracket sits in the sump), and carefully lift the float and rubber valve seat out. This is removed by lifting it in the 11 o'clock position. Holding on to the rubber float, lift and rotate out the valve seat assembly. When re-assembling, take care to ensure that the valve assembly fits down neatly onto the plastic studs, as indicated by the arrows below.



9. Rub the rubber end of the valve seat over the smooth part of your fingernail to rejuvenate and clean it.
10. Flush out the sump using carburetor cleaner. Insert the wand all the way down into the bottom of the brass tube to flush it out. The carburetor cleaner will come out of the inlet screen hole. If there is anything in the valve seat, it will be flushed out into the drain can.

