

Flooded Toyostove

Applies to Models:

Toyotomi Laser Heaters: L-301, L-302, L-531, L-532, L-731, L-732

Toyostove Laser Heaters: L-300, L-530, L-730

When servicing a Toyostove that has been flooded with fuel oil, you should first determine what caused the unit to flood. Here are a few things to look for:

1. Igniter – 16-19 Ω , 120VAC
2. Fuel sump – See sump maintenance document.
3. Cracked burner assembly.
4. Leaking fuel line.
5. Unit that has been tipped over in transport.
6. Repeated pressing of the red float-release button on the sump.

After determining what caused the flooding, repair or replace parts as necessary to prevent the unit from flooding again. All spilled fuel oil must be cleaned up. If any oil has touched the base/burner gasket or any other gasket, the gasket(s) must be replaced, or the unit will continue to emit a raw fuel smell. You may need to remove the blower motor assembly, fuel sump, or other components and clean beneath them.

If a Laser 73 has flooded, the burner insulation pad, under the burner assembly, must be replaced. In the event, the stove is put back into service with a saturated burner insulation pad; the unit will appear to burn normally. As the Toyostove begins to heat up, the oil in the pad will evaporate, causing excessive fuel oil vapor and altering the composition of the flame. The continued operation of the Toyostove could cause the burner insulation pad to ignite and burst into flame.

Under no circumstances attempt to reuse a burner insulation pad that has been saturated and allowed to dry. As it dries over time, the pad will shrink and pull away from the bottom of the burner pot. A shrunken burner insulating pad will cause the lower portion of the burner assembly to overheat in operation, leading to warping and cracking.

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.