



# Setting Fuel Pump Pressure

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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.*

### **Applies to models Oil Miser 148, 180 and Toyotomi BS36UFF:**

When installing or servicing a Toyotomi water heater, it is very important to always check the fuel pump pressure and adjust it, if necessary. Fuel pump pressure should be set to the following values:

<b>BS36UFF</b>	<b>Type A – Lot# N07 – 95.3 PSI</b>
	Lot# N08 – 99.6 PSI
	Type B – Lot# O02 ~ P01 – 114 PSI
	Lot# P04 ~ - 107 PSI
<b>OM-148/OM-180</b>	192 PSI

REE sells the “T” fitting with a glycerin-filled pressure gauge (part# 10005089). We also sell the “T” separately (part# 20476489).

Remove the coupler from the fuel line between the top of the pump and where the fuel line enters the burner body. Be sure to use open end 12 MM wrench with a backup wrench so that you do not damage the connection. Install the fuel pump pressure gauge and fire the Oil Miser water heater.

With the unit running, adjust the pressure by slowly turning the adjustment screw that is in the lower left hand front corner of the pump. There should be a black cap covering

this adjuster. Set the pump pressure to the value specified above, then recycle the power button to make the unit re-fire and recheck its pressure.

Turn the unit off, remove the tester, reconnect the coupler, and reinstall the black cap. Re-fire the unit again and test the connection for leaks.

If you see a lean or sooted unit, be sure to test the pump pressure. We here at REE have had several units returned for repair without having the fuel pump pressure tested. The pump pressures were way out of parameter. These pumps may have been damaged by being run dry, or there may have been an ice plug in the fuel line or filter, causing the gravity fed pump to work under a vacuum. It is very important to maintain a constant downward slope in the fuel line from the tank to the unit. This will eliminate low points in the line where water can settle and freeze. Also, whenever possible, install the fuel filter indoors. This will prevent the filter from becoming clogged by fuel gelling in extremely cold environments.

