



TECHNICAL BULLETIN

Heating Systems	July 8, 2010	Bulletin Identification No.: MTB137-10
Release Type: Public		

Affected Model(s): N/A
Effective Date: N/A
Effective Serial Number: N/A
Description: Diagnosing Flame Faults
Part No. (Old): N/A
Part No. (New): N/A

Short description of procedure:

Flame faults could be due to either a problem with the fuel system, or a problem with the heater. To determine which of these problems you are dealing with, do the following:

1. Clamp off and remove the fuel lines connected to the heater's fuel inlet and fuel return fittings.
2. Use a 1/4" barb coupler or connect a 1/8" NPT coupler with two 1/4" x 1/8" NPT barbs as seen in figure 1. Connect the fuel inlet line from the fuel tank to one end of the coupler and a 1 foot length of 1/4" clear hose to the other end. Make the same coupler and hose assembly for the fuel return line.
3. Connect the ends of the 1/4" clear hoses to the heater's fuel inlet and fuel return fittings as seen in figure 2. Connect 1/4" fuel line to the coupler and place the inlet and return lines into a jerry can. Run the heater and observe the fuel going through the clear lines. Both the inlet and return lines should have fuel going through them with no air bubbles. If either of the inlet or outlet lines have air going through them, or if the heater flames out, see the flame fault section of the Oasis Service Manual for further troubleshooting (this can be used for all versions ITR heaters).
4. If the heater does not flame out while running off of the jerry can, then the problem is most likely with the on-board fuel supply. Remove the jerry can and connect the fuel lines coming from the fuel tank to the clear lines connected to the heater inlet and return fittings.
5. Run the heater and observe the fuel going through the clear lines. Both the inlet and return lines should have fuel going through them with no air bubbles. If either of the inlet or return lines have air going through them, then either there is restriction somewhere in the fuel system, or air is being drawn in at some point in the fuel system. Note that a dirty fuel filter could be a source of restriction.

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Figure 1: Hose adapter assembly



Figure 2: Hose assembly connected to heater