



## BS36UFF Not Sensing the Flame

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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.*

### **After going through the tech document entitled “25s Warning Lamp”, if the 25 second warning still exists, try this:**

Verify that you have flame by feeling the exhaust stack. It should be hot. Be careful not to burn yourself. (If you have no heat on that stack, refer to the tech document entitled “25 Second Warning Lamp”.) Unplug the flame sensor from the main circuit board (“D” plug on MCB) and test the resistance (Ohms).

With the flame sensor receiving NO LIGHT, resistance should measure greater than 180K Ohms (If this value is higher than your meter can measure, you will get OL for over limit. Many digital multimeters top out at 200K Ohms or less.)

With light directly on the eye of the flame sensor, resistance should measure less than 30K Ohms.

If you do have heat, and you have tested the flame sensor’s resistance and it is within specs, you likely have a problem with the light of the flame not reaching the flame sensor.

Remove the flame sensor from the burner and ensure that the eye is clean.

Replace the burner top (part# 20476439) if it is darkened from soot, heat, etc. The new one will be nice and shiny, reflecting more light back to the flame sensor.

Get some high temperature silver paint (automotive header paint works well) and paint the INSIDE of the cylinder-shaped part that the burner top mounts to, indicated by the arrow below.

This will also help to reflect more light back to the flame sensor. Allow the paint to dry completely before firing the unit.



If the problem persists, you likely have a faulty main circuit board (Part# 20476412).