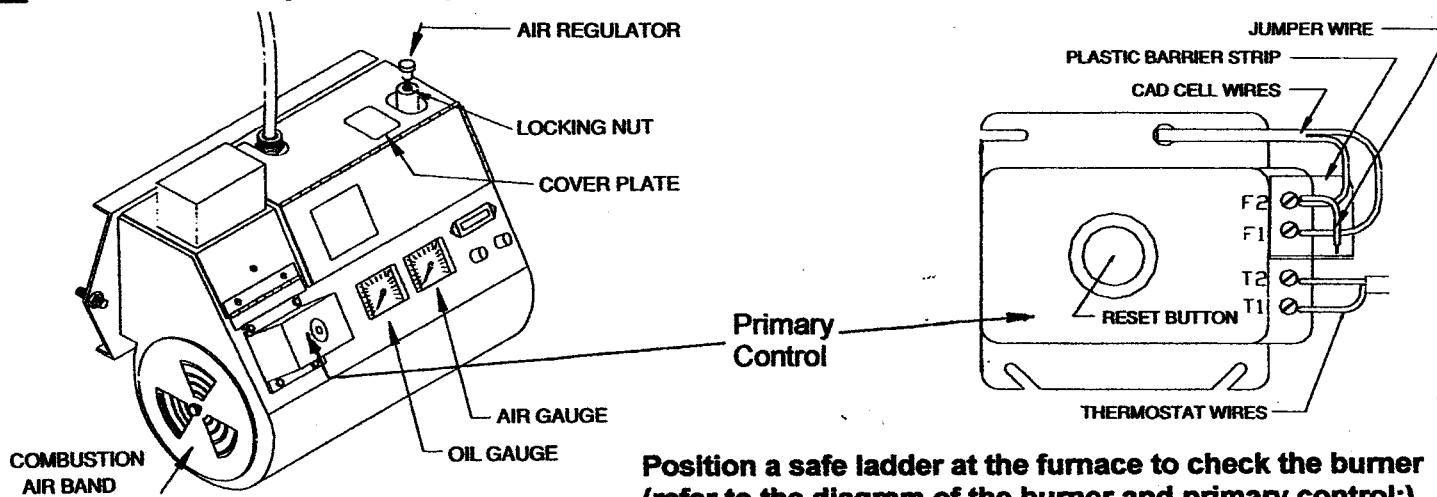


IF YOUR BURNER WILL NOT FIRE (your furnace is not producing heat,) do the following:

1. Check that you have sufficient good quality used oil in the tank - the burner will not fire if there is water or anti-freeze, etc. in the tank.
2. Check that your air compressor is running - the burner will not fire without air pressure.



Position a safe ladder at the furnace to check the burner (refer to the diagram of the burner and primary control:)

3. Is the power light (green light) ON? If not, turn the power ON and wait 15 minutes for the preheater block to warm up.
4. Look at the right hand side of the burner to locate the oil line fitting (this fitting has a 3/8" copper tube hooked to it.) Feel this fitting to determine if it is warm. The burner will not run unless the preheater block is heated up to 140 degrees.
5. Check the primary control. Are the 2 yellow cad cell wires properly connected to the F terminals? Is the yellow jumper wire only connected to one terminal - the burner will not run if the yellow jumper is connected to both F terminals.
6. Check the primary control. Are the 2 thermostat wires connected to the T terminals?
7. Check the oil gauge and air gauge - both gauges should read ZERO with the burner not running.
8. Turn the wall thermostat all the way up to call for heat. Does the burner run? If the burner does not run, do the following:
9. Reset the primary control by pushing down the big red button for 3 seconds and releasing. The burner should now run and try to fire for about 15 seconds. If the burner does not run, use a small screw driver to jump across the T terminals to bypass the wall thermostat. If the burner runs, the wall thermostat requires replacement.

If the burner runs, but there is no flame in the combustion chamber, do the following:

10. With the burner running, quickly check that the air pressure gauge reads between 14 - 16 PSI. If it does not, you have no compressed air to the burner. Check your source of compressed air; reset the primary control; and adjust the air pressure regulator to 14 - 16 PSI.
11. With the burner running with 14-16 PSI at the air gauge, does the yellow pump light come on? If the yellow light does not come on, call Eco Heating for steps to check burner components.
12. With the burner running with the yellow pump light on, quickly check that the oil gauge shows oil pressure (this will vary from 1 - 9 PSI depending on the furnace model.) If the gauge shows zero and the yellow pump light is ON, you have lost prime at the pump. Follow the directions in section 5 of your Operator's Manual to prime the pump. Call Eco Heating Systems if you have questions about pump priming procedures.

If the burner runs with correct air pressure and oil pressure readings but it does NOT fire (there is no flame in the chamber,) do the following:

13. Swing the burner open and check the condition of the electrodes. Clean carbon from the electrodes and follow the directions in the technical section (located at the end of the Operator's Manual) to set the electrodes.
14. Remove the nozzle with a 5/8" deep well socket and follow the directions in the technical section of the Operator's Manual to clean the nozzle.
15. If there is carbon build up on the retention head, use a 1/4" nut driver to remove it, and clean it in a parts washer.

If the burner will not fire correctly after properly following the above steps, call Eco Heating Systems for service.