

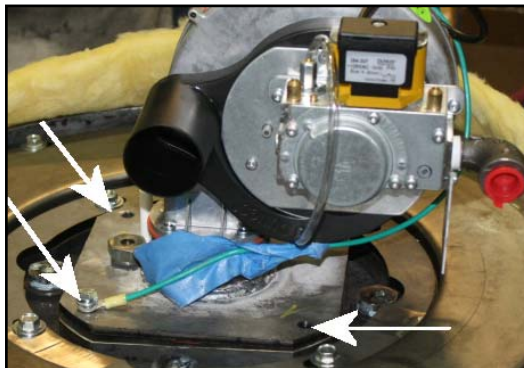


Spiderfire (GHE100) Refractory Adjustment

In some cases when the Spiderfire Commercial Gas Water Heater is presenting error code A01, an adjustment needs to be made to the refractory. The refractory is an insulation piece on the burner assembly and inside the combustion chamber.

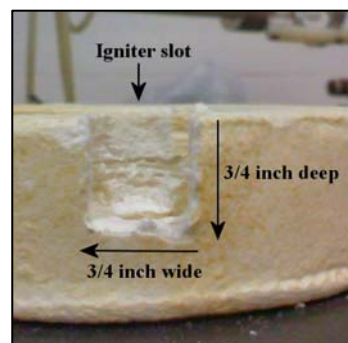
The gas valve, blower motor and mesh burner are all one assembled repair part. You must remove the entire assembly for this procedure. The insulation and top pan have been removed from the picture for clarity.

1. Disconnect or turn off power to the water heater.
2. Remove all wires and Molex connections to the burner assembly.
3. Loosen and remove the four bolts holding the burner assembly onto the water heater with a 7/16 inch wrench.
4. Lift blower straight up and out of the water heater.
5. See Refractory Adjustment steps below.
6. Replace in reverse order. Remember to install any gaskets removed in the process.
7. Make sure the green ground wire is connected under one of the nuts.



Refractory Adjustment:

1. Remove metal cup holding refractory insulation in place.
2. Gently remove refractory from burner assy.
3. Locate the igniter holes and cut a 3/4 inch wide by 3/4 in deep channel in the refractory as show. Any sharp tool or knife will work.
4. Blow out any excess debris.
5. Replace refractory and metal retaining cup.
6. Continue with Step #6 above.



When completed, the assembly should look like this.

