http://waterheatertimer.org/How-to-troubleshoot-gas-water-heater.html

MAIN BURNER: Inspection, Adjustment, Cleaning and Replacement (cont.)

Step 3. Fully inspect inner gasket per SERVICE PROCEDURE RG-I, step 4. Replace gasket if required following SERVICE PROCEDURE I, steps 5 & 6.

Step 4. Be certain that thermocouple, pilot tube and piezo wire are routed by inner door flange as shown and Reinstall inner door per SERVICE PROCEDURE RG-I, step 10 and 11.

Step 5. Observe burner operation through sight glass of inner door. Burner should operate as adjusted in step 2, if not, repeat procedure compensating air shutter position for proper burner operation with inner door in place.

Step 6. It may be necessary to clean main burner or main burner orifice to achieve proper burner operation. If cleaning is required proceed to burner cleaning section in this procedure.

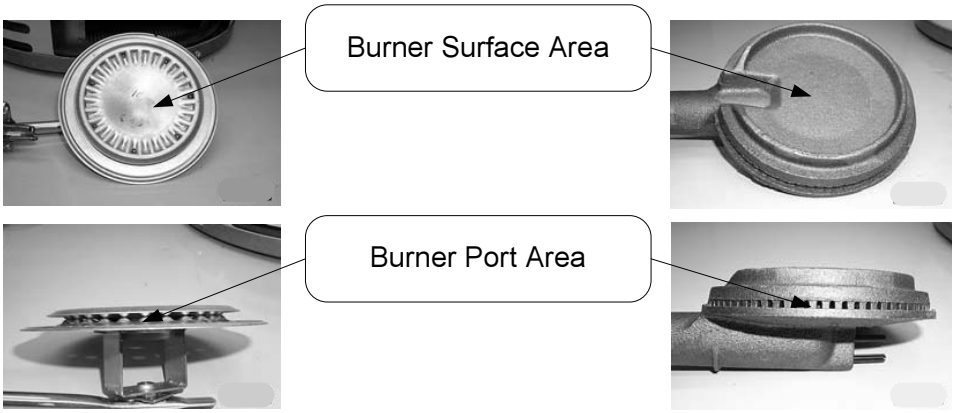
BURNER CLEANING (Steel & Cast Iron)

Step 1. Remove inner door assembly per SERVICE PROCEDURE RG-I, steps 1 through 3c.

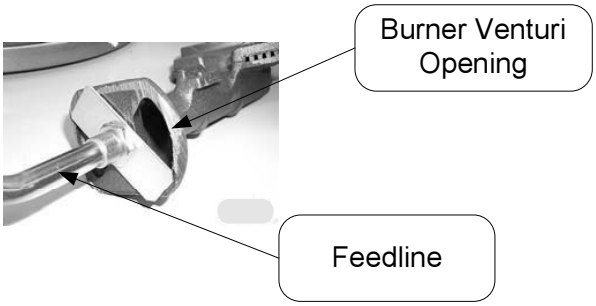
Step 2. Disconnect main burner feed line, pilot tube and thermocouple/thermopile from combination thermostat gas valve and remove burner assembly from combustion chamber.

NOTE: Feedline nut for natural gas control uses right hand threads, LP control uses left hand thread.

Step 3. Thoroughly inspect burner surface area and burner ports and remove any loose debris accumulation.



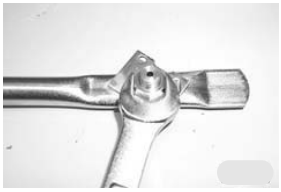
Step 4. On cast iron burners, inspect for any debris build up inside burner venturi. If found, disconnect feedline from burner and remove debris build up.



BURNER CLEANING (Cont.)

Step 5. Disconnect (unscrew) Main burner (steel) from main burner orifice or on cast iron burners ("C" burner), loosen air shutter & disconnect (unscrew) feedline from burner.

Step 6. Remove main burner orifice from feed line. Inspect and clean if necessary.



Step 7. Remove pilot assembly, refer to SERVICE PROCEDURE RG-III for cleaning and inspection.

Step 8. Reassemble burner.

Step 9. Inspect combustion chamber area of heater prior to reinstallation of burner assembly. If cleaning is required, refer to SERVICE PROCEDURE RG-VIII.

Step 10. Reinstall burner assembly into combustion chamber, reconnect feedline, thermocouple and pilot tube to the combination thermostat/gas valve.

Step 11. Reinstall inner door per SERVICE PROCEDURE RG-I, steps 4 through 13.

Step 12. To resume operation, follow the instructions located on the lighting instruction label or the lighting instructions located in the installation and operation manual.