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Giannoni Heat Exchanger Detailed Cleaning Instructions



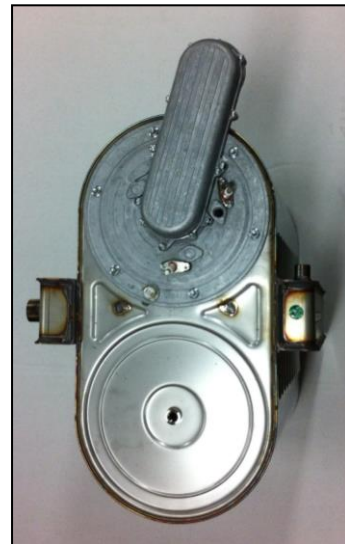
This boiler must be serviced by a qualified heating technician. Failure to properly maintain or service this appliance may result in property damage, serious injury to occupants or, death.

Applicable Boilers:

- Ti100 – 400
- Ti150(C)-200(C)
- Tx51-200
- Tx151(C)-200(C)
- Lx150-800

Tools Required

- Pliers
- Phillips #2 screwdriver
- Flat screwdriver
- 1/4" nut driver or wrench
- 5/16" nut driver or wrench
- 10mm wrench
- 1/2" wrench
- 7/16" wrench
- 9/16" wrench
- Pipe wrench
- Torx T25 screwdriver
- Torx T20 screwdriver
- Adjustable wrench
- Stiff bristle nonmetallic scrub brush



Lx 400-800



Ti 100-200, Lx 150-300



Tx 51-200



Read these instructions thoroughly before beginning your cleaning

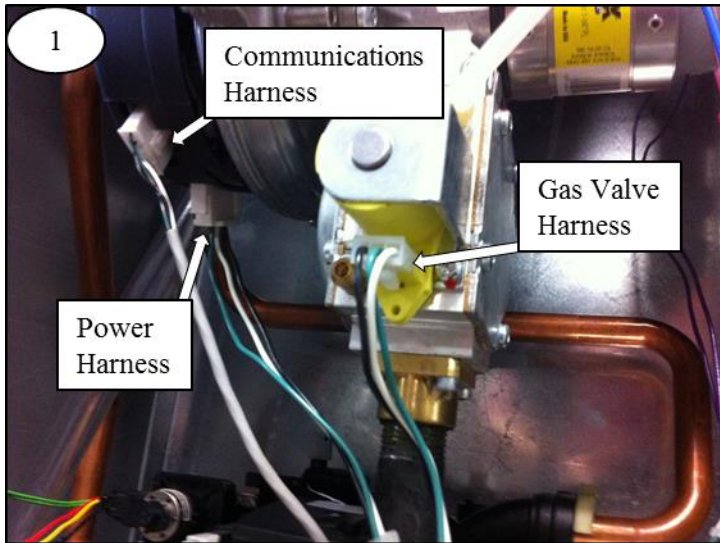
procedure



Allowing any Trinity boiler to operate with a dirty combustion chamber will not only adversely affect the operation

of the boiler but will also void the warranty. Failure to clean the combustion chamber on a frequency that matches the needs of the application may result in fire, property damage, or death.

Cleaning Instructions

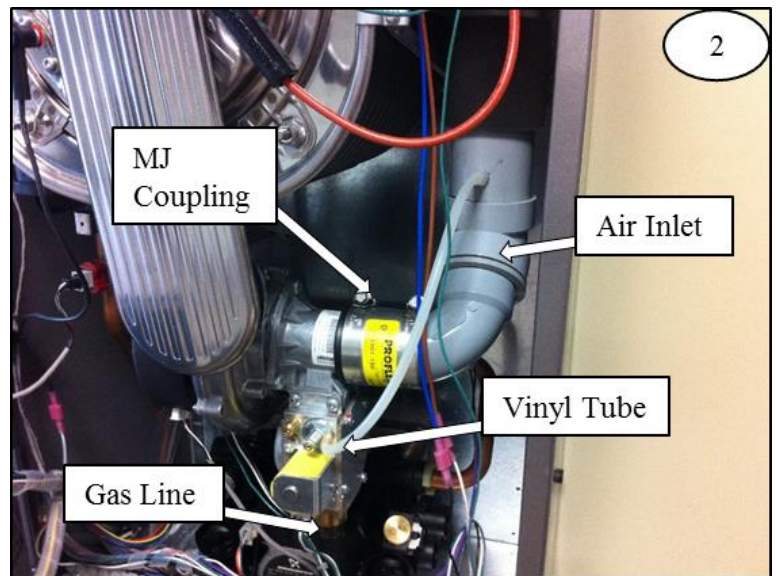


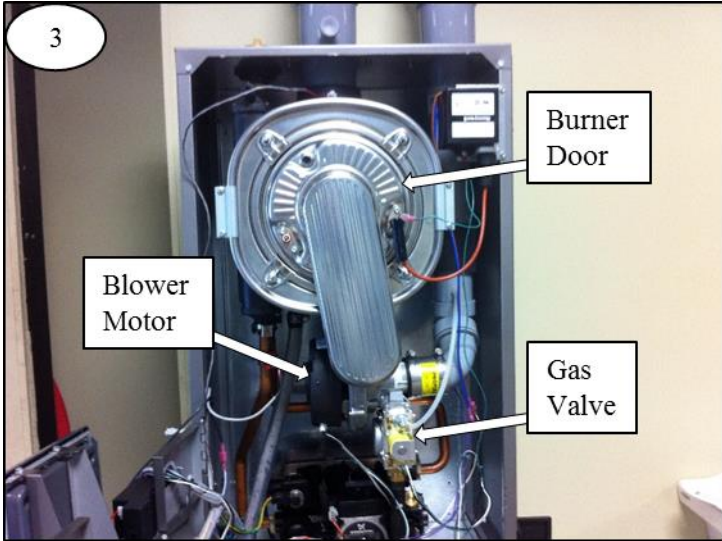
- Turn off power and gas to the boiler.
- Disconnect the condensate drain.
- Disconnect the wiring harnesses on the blower motor, gas valve, flame rod and igniter.

(Tx151C shown)

- Detach the vinyl tube from the gas valve.
- Loosen the MJ coupling and remove the air inlet from the venturi.
- Disconnect the gas line from the gas valve.

(Tx151C shown)



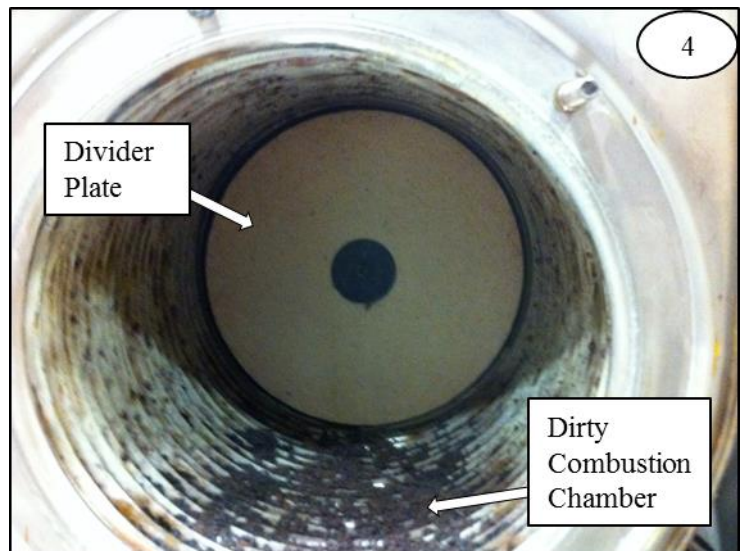


- Remove the nuts securing the burner door to the combustion chamber (4 nuts on Tx boilers, 6 nuts on Ti and Lx boilers).
- Remove burner door, blower motor and gas valve as a unit.

- Photograph or document the condition of the combustion chamber.
- Record the duration from installation to the first cleaning as this will aid in developing a cleaning schedule.
- Use a vacuum with a high efficiency filter to remove any loose debris or dust.

NOTICE Refer to Refractory Ceramic Fibers in the Installation and Operations Manual.

- Place a bucket under the condensate drain.
- Use cardboard or plastic to protect divider plate from getting saturated with water.





- Wet the inside of the combustion chamber with water. Spray pressurized water through the coils.
- If pressurized water is not available a bucket and sponge can be used.
- Water should pass between the coils in the heat exchanger and exit via the condensate drain.
- Allow water to drain through the condensate drain.

- Use a stiff nylon or other non-metallic scrub brush to loosen the incrustations and any other contaminants that remain on the surface and openings of the coils.
- Use the cleaning card to remove incrustations and any other contaminants that remain between the water tubes.
- Continue scrubbing and rinsing with clean water until the water runs clear from the condensate drain.
- Apply a coating of white vinegar to the coils and let it sit for five minutes.
- Scrub the coils with the nylon brush and cleaning card and rinse with fresh water until water runs clear and there is no aroma of the vinegar.





- Clean the condensate trap including the ball inside.

NOTICE

Ensure that the ball in the condensate trap is floating freely prior to leaving the job site. Failure to do so may result in property damage.

- Inspect the boiler including the divider plate ceramic disc, the burner door gasket, rope gasket, and door insulation for wear and/or damage.
- Replace any worn or damaged components.
- Reassemble in reverse order.
- Torque the nuts on the burner plate to 48 in. lb. (4 ft. lb.)

WARNING

Burner Plate Gasket – Do not over-tighten the burner plate nuts. This could result in gasket failure and a gas leak. This may result in fire, property damage, or death.

- After reassembly perform the following check for leaks:
- With gas turned off disconnect the communication harness (5pin connector) from the blower motor and turn the boiler on. This will cause the blower motor to run at high speed.
- Then temporarily block the exhaust vent.
- Use a mixture of soap and water to check for leaks throughout the boiler assembly.
- Confirm there are no leaks, then, remove the blockage from the exhaust vent. And reconnect the 5 pin wire harness to the blower.
- Check for proper operation including smooth ignition.
- Perform a combustion analysis (refer to the Installation and Operation Manual).

Parts for Service: Refer to the parts list in the Installation and Operation Manual