
Prestige SOLO 60, 110, 175 and 250 Boiler Propane to Natural Instructions



Kit Part Number: PSRKIT24

Kit Includes

- Rating Label
- (1) Natural Gas Orifice
- T-25 Torx Wrench

Recommended Tools

- Standard Adjustable Wrenches
- Phillips-head Screwdriver
- Flat-blade Screwdriver
- T-40 Torx Wrench

WARNING

Indicates a potentially hazardous situation which, if ignored, can result in serious injury or substantial property damage.

NOTICE

Indicates special instructions on installation, operation or maintenance, which are important to equipment but not related to personal injury hazards.

WARNING

Failure to follow instructions below can result in severe personal injury or damage if ignored:

- Instructions are for a qualified installer / service technician.
- Read all instructions before proceeding.
- Follow instructions in the proper order.

NOTICE

Upon completion of the conversion from Propane to Natural, affix the new rating label included in the kit to the unit adjacent to the existing rating label. DO NOT affix the new label over the existing rating label. Remove all propane labeling from the gas valve and surrounding area.

WARNING

For your safety, turn off electrical power supply at service panel and allow unit to cool before proceeding. Failure to do so can cause severe personal injury or death.

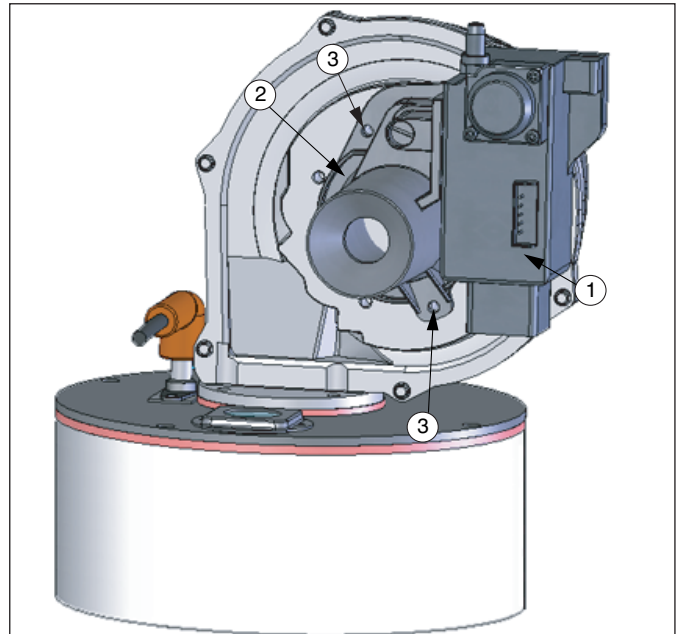
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Conversion of Gas Valve/Venturi Assembly

1. Turn off the electrical power supply to the boiler.
2. Close the manual gas shut off valve to the unit.
3. Remove the front panel of the Prestige by removing the mounting screw(s) along the upper edge of the unit. Lift the panel up and pull forward to remove the front panel from the unit.
4. Remove the retaining screw from the control panel. Open the display panel cover and swing the control panel out.
5. Remove the air inlet elbow from the venturi using a twisting motion.
6. Disconnect the gas supply piping inside the Prestige enclosure at the brass union located just below the gas valve.
7. Unscrew the Phillips screw securing the rectifier cable / plug to the gas valve. Disconnect the rectifier plug from the gas valve.
8. Remove the two T-25 Torx head screws used to mount the venturi / gas valve assembly to the blower. Do not discard the screws. Dismount the venturi / gas valve assembly from the blower. See Fig. 1.

NOTICE

There is a gasket between the venturi and the blower housing. This gasket must be reinstalled when the venturi is mounted back onto the blower housing. Use care not to damage the gasket.



1. Gas Valve
2. Venturi
3. T-25 Torx head Screws. Attaching Gas Valve/Venturi to Blower Housing

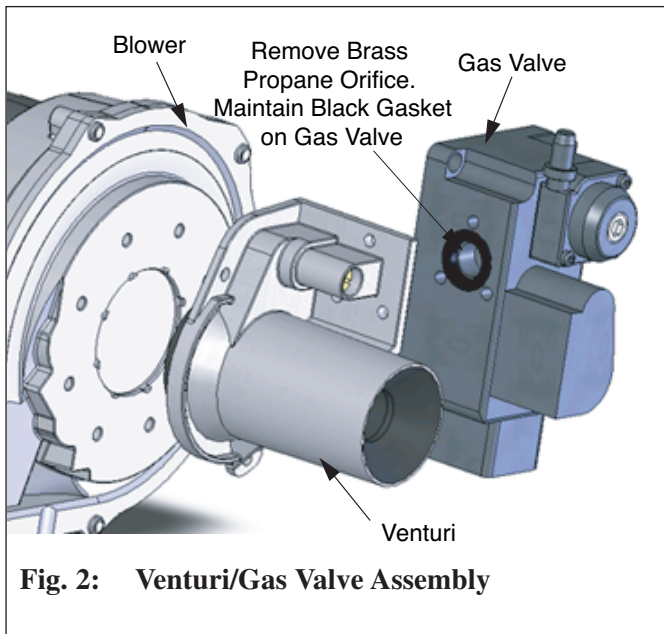
Fig. 1: Prestige Burner Assembly

9. Using a T-25 Torx wrench remove the three mounting screws attaching the gas valve to the venturi. Note the orientation of the gas valve to the venturi for reference later when the gas valve is reassembled to the venturi.
10. Remove the brass orifice from the gas valve. The black rubber orifice gasket must remain attached to the gas valve. See Fig. 2 page 3.
11. For the Solo 60 ONLY: Seat the natural gas orifice into the black rubber gasket on the gas valve.

WARNING

Failure to retain the rubber orifice gasket on the gas valve will cause an improper seal between the gas valve and the venturi resulting in a potential gas leak. Any potential gas leakage may result in death, serious injury or substantial property damage.

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WARNING

The Solo 110, 175 and 250 natural gas does not require a gas valve orifice. The Solo 60 requires a 0.204" (5.2 mm) orifice for natural gas. Failure to comply will affect the input rate of the boiler, resulting in death, serious injury or substantial property damage.

12. Reassemble the gas valve onto the venturi using the three T-25 Torex head screws. Ensure the gas valve is orientated with the venturi correctly.
13. With the venturi / blower gasket in place, reassemble the venturi / gas valve assembly to the blower housing using the two T-25 Torx head screws.

NOTICE

During reassembly do not use adhesive on the venturi / blower gasket.

NOTICE

Use care in the reassembly of the venturi / gas valve to the blower housing not to cross thread the mounting screws. Support the weight of the venturi / gas valve assembly when threading the mounting screws.

14. Reconnect the rectifier plug to the gas valve and secure using the Phillips head screw.
15. Reconnect the brass gas piping union connection and open the manual gas shut off valve. Before placing the Prestige boiler back into operation check and test all gas connections for leaks. Repair leaks if found.

WARNING

Do not check for gas leaks with an open flame. Use a bubble test. Failure to check for gas leaks can cause severe personal injury, death or substantial property damage.

16. Reattach the air inlet elbow to the venturi.
17. Reposition the control panel and reattach the retaining screw.
18. Replace the front jacket panel and secure with the mounting screws along the top edge.
18. Turn on the electrical power supply to the Prestige boiler and return the unit back to service.

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Combustion Test and Adjustments

1. The installer should perform a complete combustion analysis to ensure the following combustion readings are met at high and low input firing rates and the burner is operating at optimum conditions for natural gas.

O2 Min - 2.3% CO2 Min - 8.8%
O2 Max - 5.3% CO2 Max - 10.5%
CO Max - 100 ppm

WARNING

The combustion testing and adjustments must be performed by a qualified installer, service agency or the gas supplier. All combustion measurements must be performed with calibrated equipment to ensure proper readings and accuracy.

WARNING

Failure to perform a complete combustion test at both high and low input rates may result in incomplete combustion and the production of carbon monoxide, which can cause severe personal injury, death or substantial property damage.

2. Manually place the boiler into high fire mode by pressing the “MODE” button with “+” button simultaneously on the control panel while in the Standby (STBY) mode.

NOTICE

The control panel will display a H followed by the current boiler temperature when placed into high fire test mode.

3. If the combustion readings during high fire are outside the recommended combustion param-

eters adjust the THROTTLE SCREW (see Fig. 3) using a flat-blade screwdriver as follows:

Counter-clockwise adjustment of the Throttle Screw at High Fire:

O2 decreases and CO2 increases

Clockwise adjustment of the Throttle Screw at High Fire:

O2 increases and CO2 decreases

4. Once the combustion readings are set at high fire, manually place the boiler into low fire mode by pressing the “MODE” button with “-” button simultaneously on the control display while in the Standby (STBY) mode.

NOTICE

The control panel will display a L followed by the current boiler temperature when placed into low fire test mode.

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5. If the combustion readings during low fire are not within $\pm 0.2\%$ of the combustion level measured at high fire, remove the offset cover screw and adjust the plastic OFFSET SCREW (see Fig 3) using a T-40 Torx wrench as follows:
Counter-clockwise adjustment of the Offset Screw at Low Fire:

O₂ increases and CO₂ decreases

Clockwise adjustment of the Offset Screw at Low Fire:

O₂ decreases and CO₂ increases

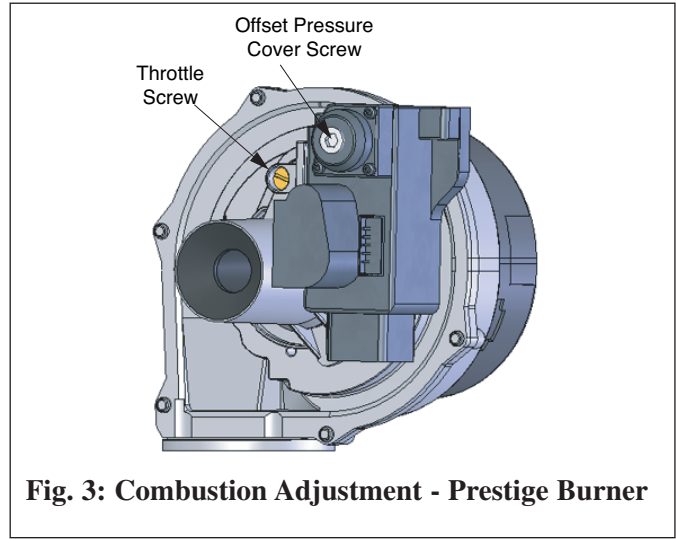


Fig. 3: Combustion Adjustment - Prestige Burner