

# INSTALLATION INSTRUCTIONS

## # 00-858726 BURNER ASSEMBLY REPLACEMENT

### C24GA BURNER ASSEMBLY REPLACEMENT

**NOTICE** Verify steamer has a K3 relay (1, Fig. 1) installed. If K3 relay is not in steamer, one must be installed during new burner assembly installation for burner assembly to work properly.

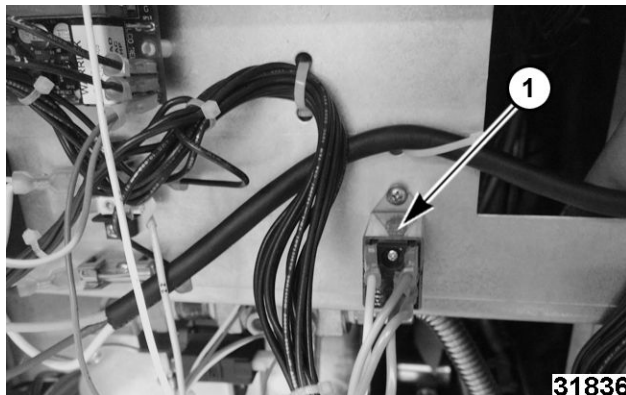


Fig. 1



**WARNING** Shut off the gas before servicing the unit and follow lockout / tagout procedures.



**WARNING** Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Disconnect power supply and shut off gas to steamer.
2. Remove panels.
  - A. Remove front panel from cabinet base.

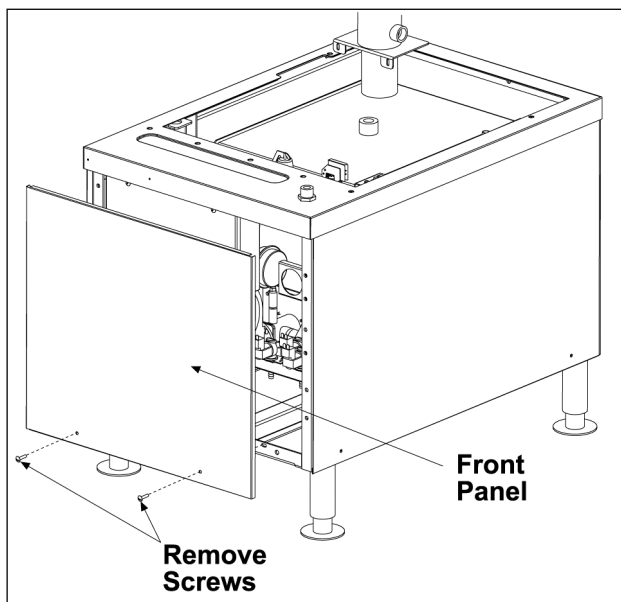
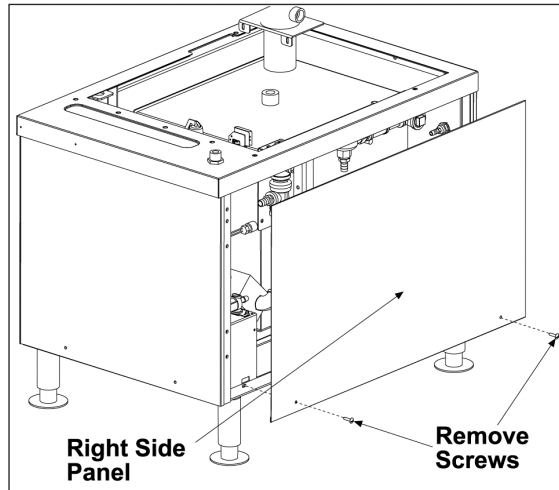


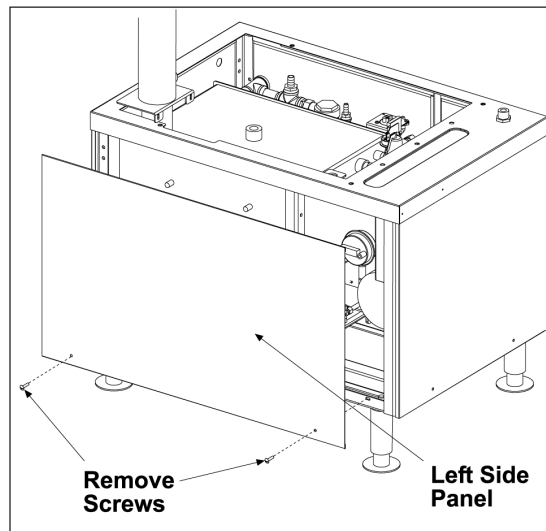
Fig. 2

B. Remove cabinet base right side panel.

**NOTE:** Left side access panel can also be removed for easier access to burner.

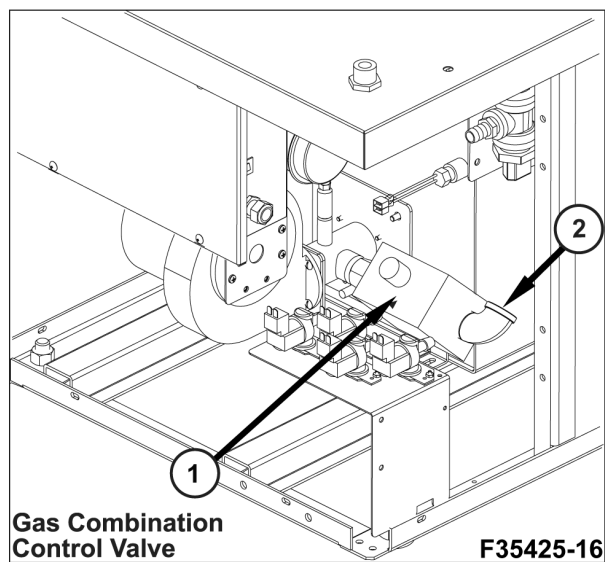


**Fig. 3**



**Fig. 4**

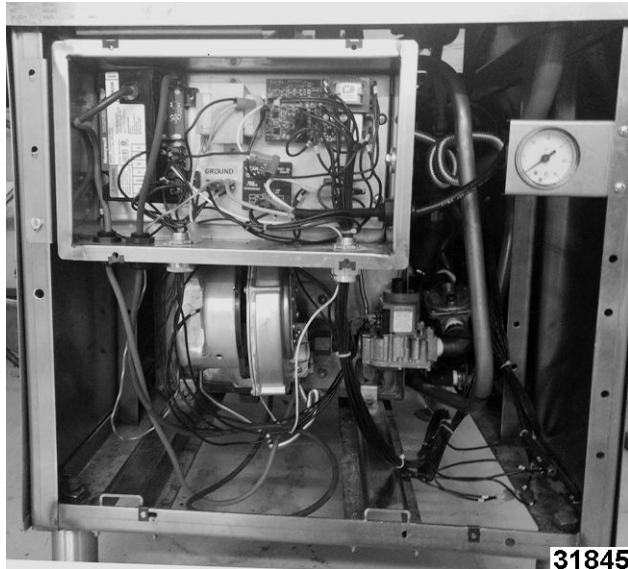
3. Disconnect gas line (2, Fig. 5) at gas combination control valve (1, Fig. 5).



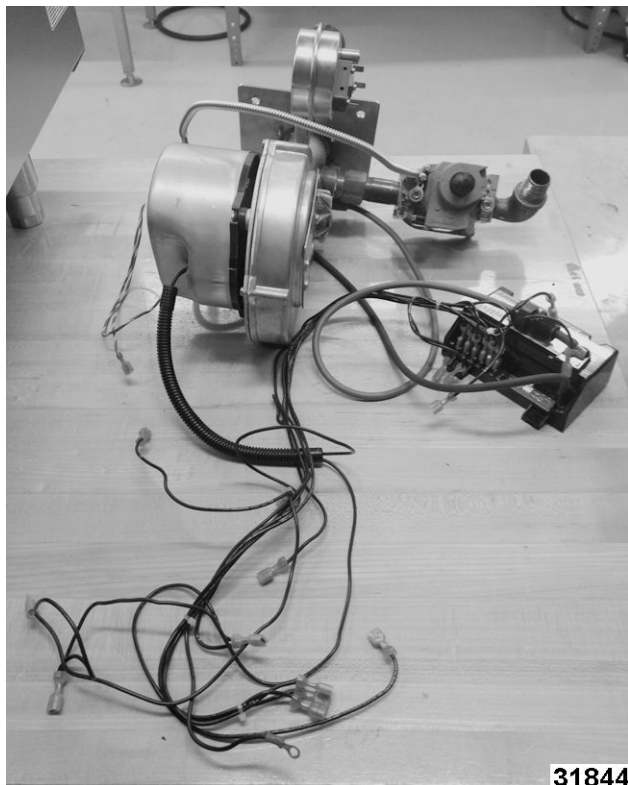
**Fig. 5**

- Note and disconnect wires to burner assembly.

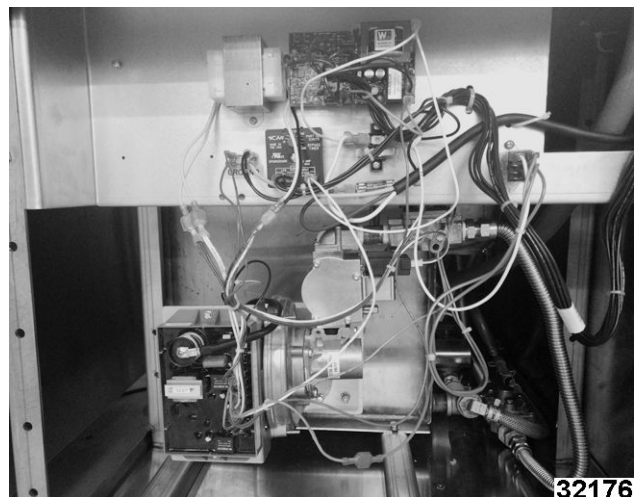
**NOTICE** In the previous production blower assembly components were separate (gas valve, air pressure switch, blower, and ignition module). Current production blower assembly is one unit and the air pressure switch is not required. The ignition module has changed locations and the wire harness is different. **NOTE** and **VERIFY** all wire connections using the wiring diagram provided in this instruction sheet.



**PREVIOUS PRODUCTION INSTALLED**



**PREVIOUS PRODUCTION REMOVED FROM UNIT**



**CURRENT PRODUCTION INSTALLED (INCLUDED WITH KIT)**

5. Remove nuts ( Fig. 9) securing burner to tank.

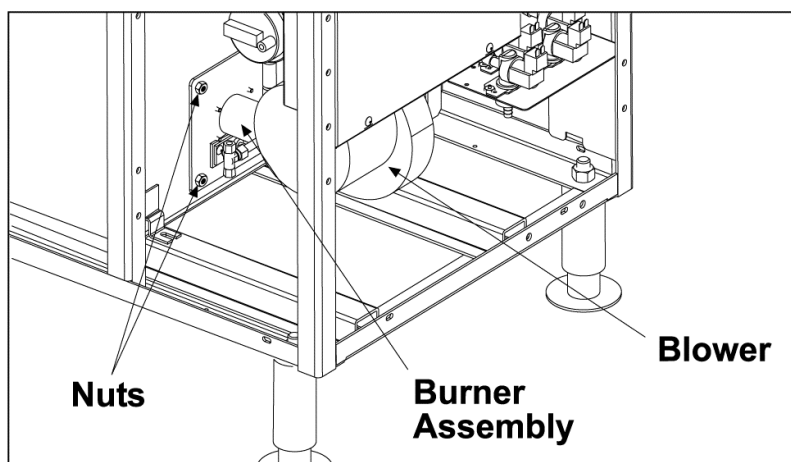


Fig. 9

6. Drop blower end of burner assembly slightly down to clear control box while pushing wires back to pull burner out of tank.
7. Inspect inside combustion chamber and clean out debris if necessary.

**NOTICE** If scaling is present, clean and check for leak in generator or super heater. This must be fixed before installing burner assembly.

8. Clean gasket surface and install new gasket (1, Fig. 10) while mounting new burner assembly.

**NOTE:** Use existing nuts and washers (2, Fig. 10) when mounting new burner assembly.

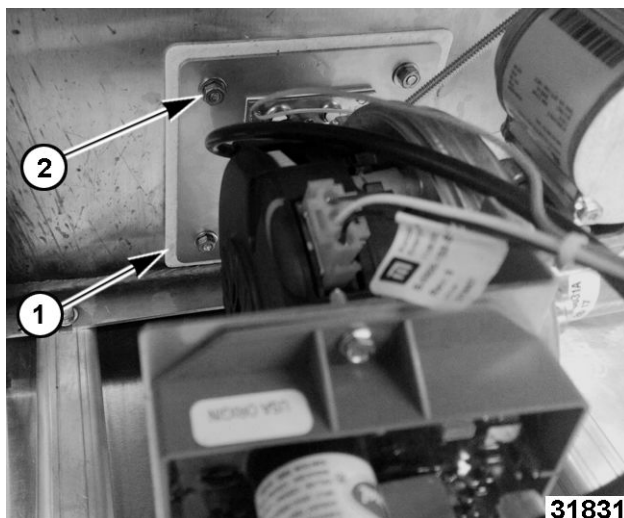


Fig. 10

9. Check solenoid on/off switch to verify it is in the **ON** (1, Fig. 11) position.

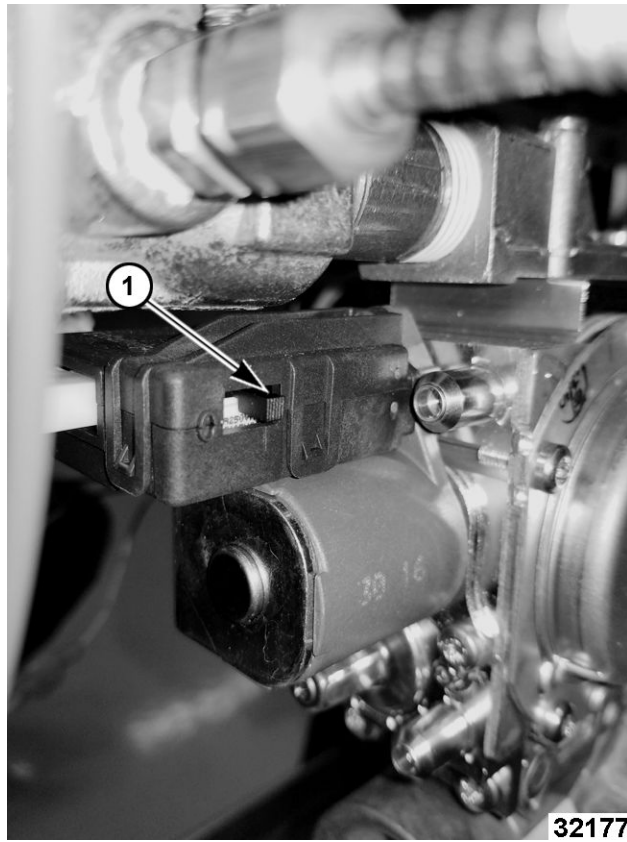


Fig. 11

10. Remove regulator (1, Fig. 12).

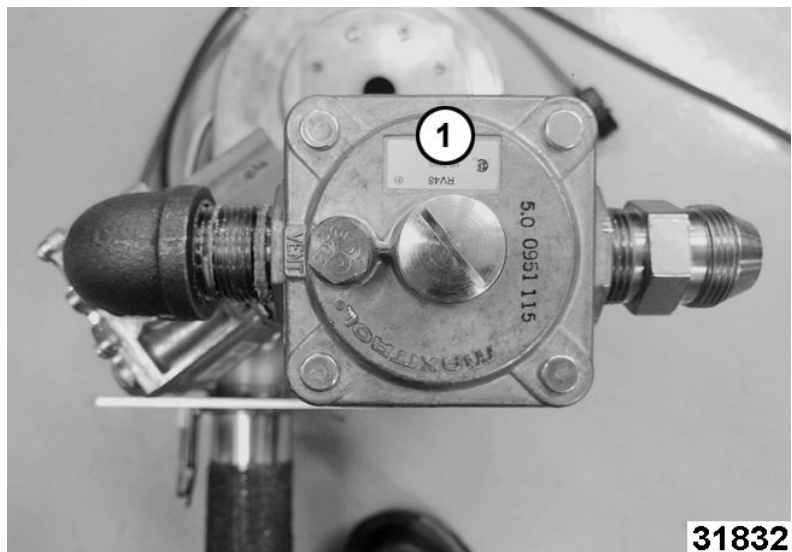


Fig. 12

11. Remove close nipple fitting (1, Fig. 13) if still attached to regulator.



Fig. 13

12. Install bushing reducer (1, Fig. 14) and flare nut fitting (2, Fig. 14) to outlet side of regulator.

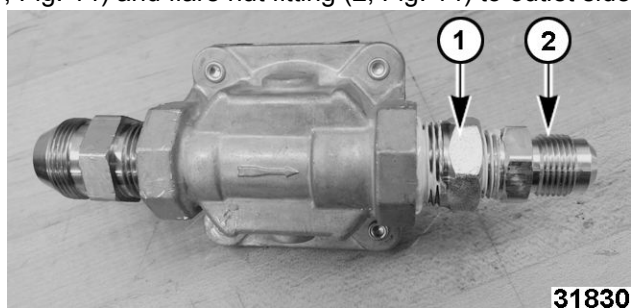


Fig. 14

13. Install 1/2" x 18" flex tube to gas valve.  
14. Install other end of 1/2" flex hose (1, Fig. 15) to flare fitting regulator outlet.

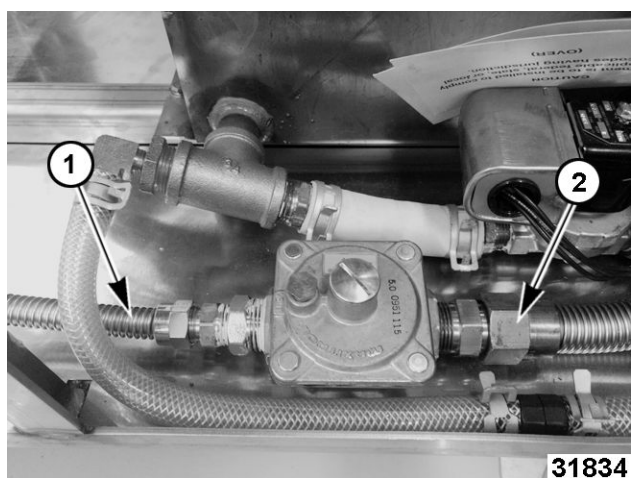


Fig. 15

15. Install 3/4" flex hose (2, Fig. 15) gas supply hose to regulator inlet.

**NOTICE** Verify regulator is level in a horizontal position as shown in Fig. 15.

16. Connect wiring. Refer to diagram.

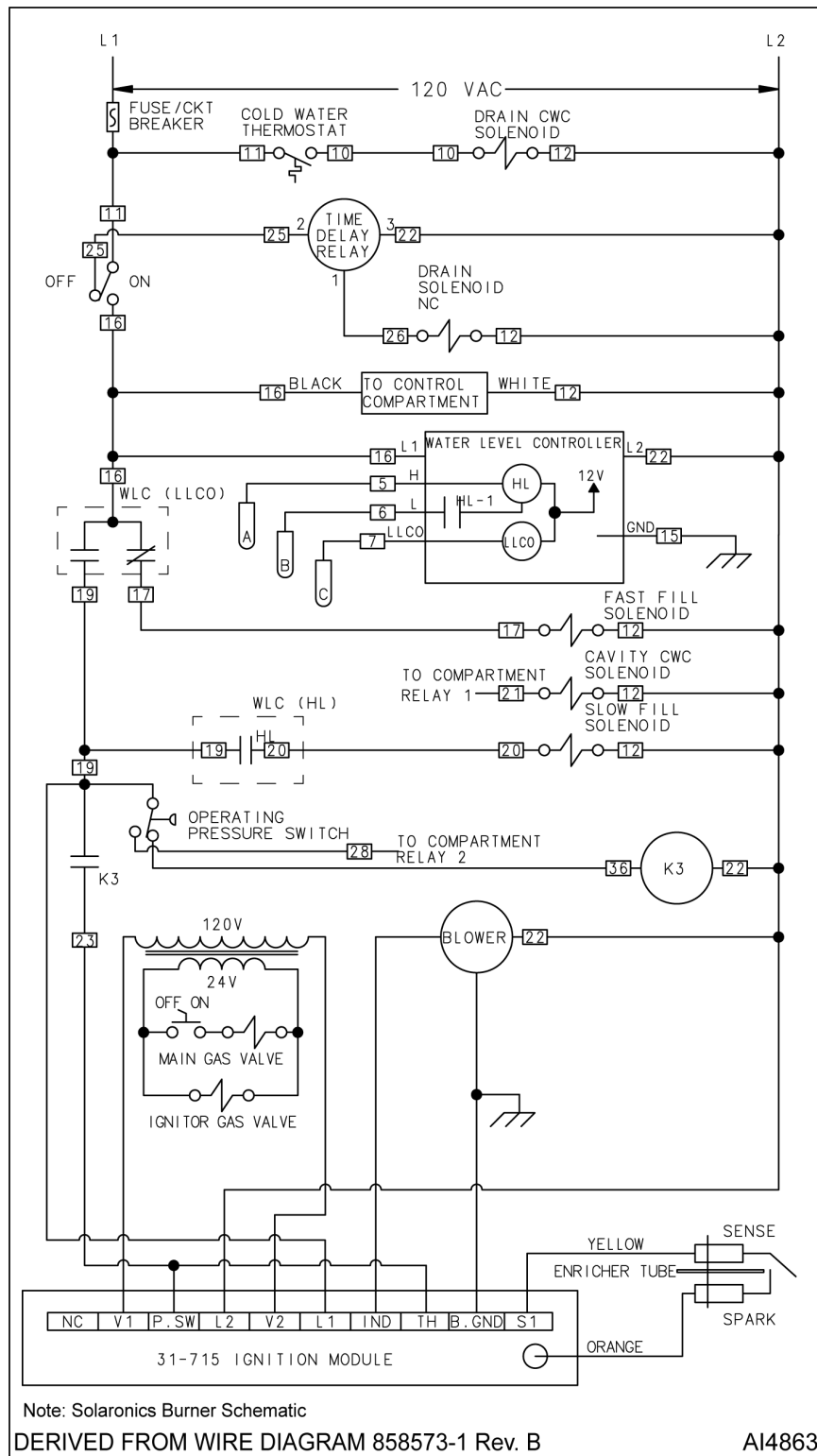


Fig. 16

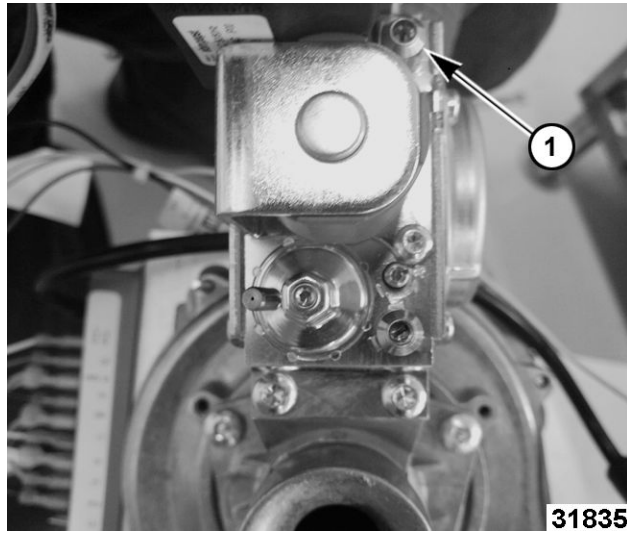
17. Turn power on.

18. Turn gas supply on and check for leaks.

**⚠ WARNING** All gas joints disturbed during servicing must be checked for leaks. Check with a soap and water solution (bubbles). Do not use an open flame.

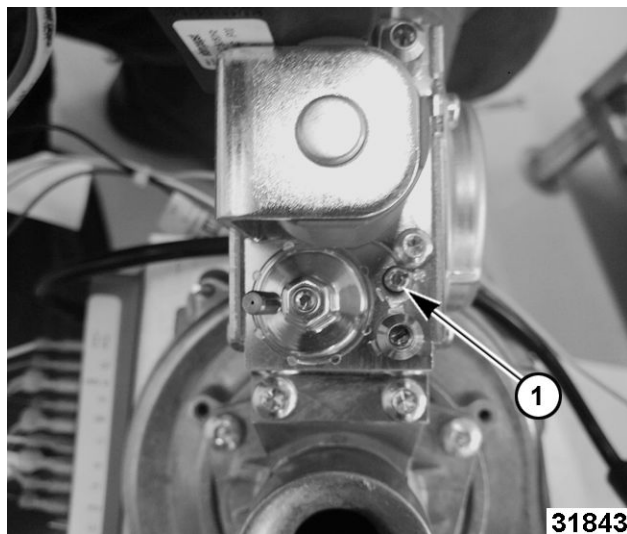
19. Check incoming gas pressure to solenoid valve.

- A. Loosen screw with flat head screwdriver (1, [Fig. 17](#)) to open pressure tap.



**Fig. 17**

- B. Use manometer to measure incoming gas.
- Natural Units - 5" W.C.
  - Propane Units - 10" W.C.
- C. Turn adjustment screw (1, [Fig. 18](#)) all the way in until it bottoms out.



**Fig. 18**

- D. Back adjustment screw out.
- Natural Units - 6 to 6 ½ Turns.
  - Propane Units - 5 to 5 ½ Turns.



## Analyze Combustion

A. Insert analyzer (1, Fig. 19 ) into exhaust flue (2, Fig. 19) as shown.

**NOTICE** Analyzer wand must be in center of exhaust flue and at least 2" down into flue.

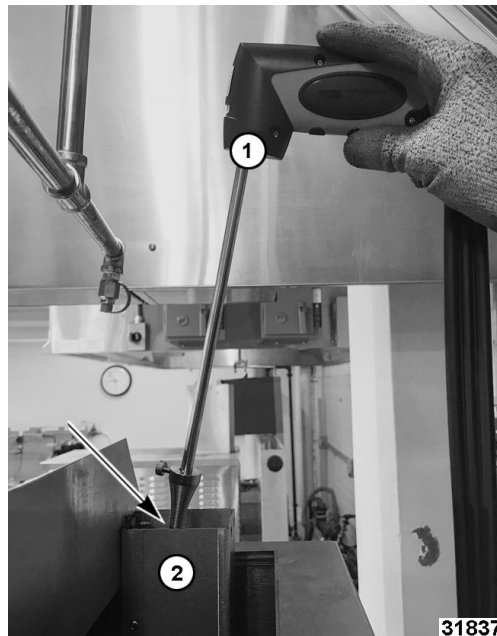


Fig. 19

B. Verify requirements.

Burner Combustion Requirements		
Measure	Natural Gas	Propane Gas
Supply Pressure	7.0" to 10.5" W.C.	11.0" to 13.0" W.C.
CO <sub>2</sub> Percentage	7.0% (+/- 0.5%)	8.0% (+/-0.5%)
CO (ppm, Air Free)	Less than 100 ppm	Less than 100 ppm

C. Turn gas valve adjustment screw clockwise or counterclockwise to achieve burner combustion requirements.

20. Install mylar sheet with mounting nuts in bottom of control panel existing bolt holes over motor.

**NOTICE** Mylar sheet must be installed to protect electrical connections.

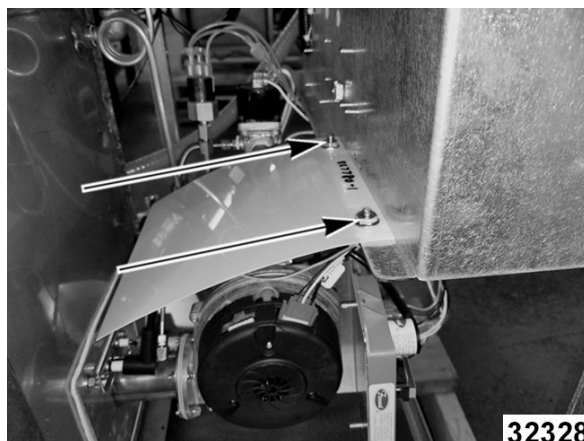


Fig. 20

21. Install side and front panels.

22. Verify operation.