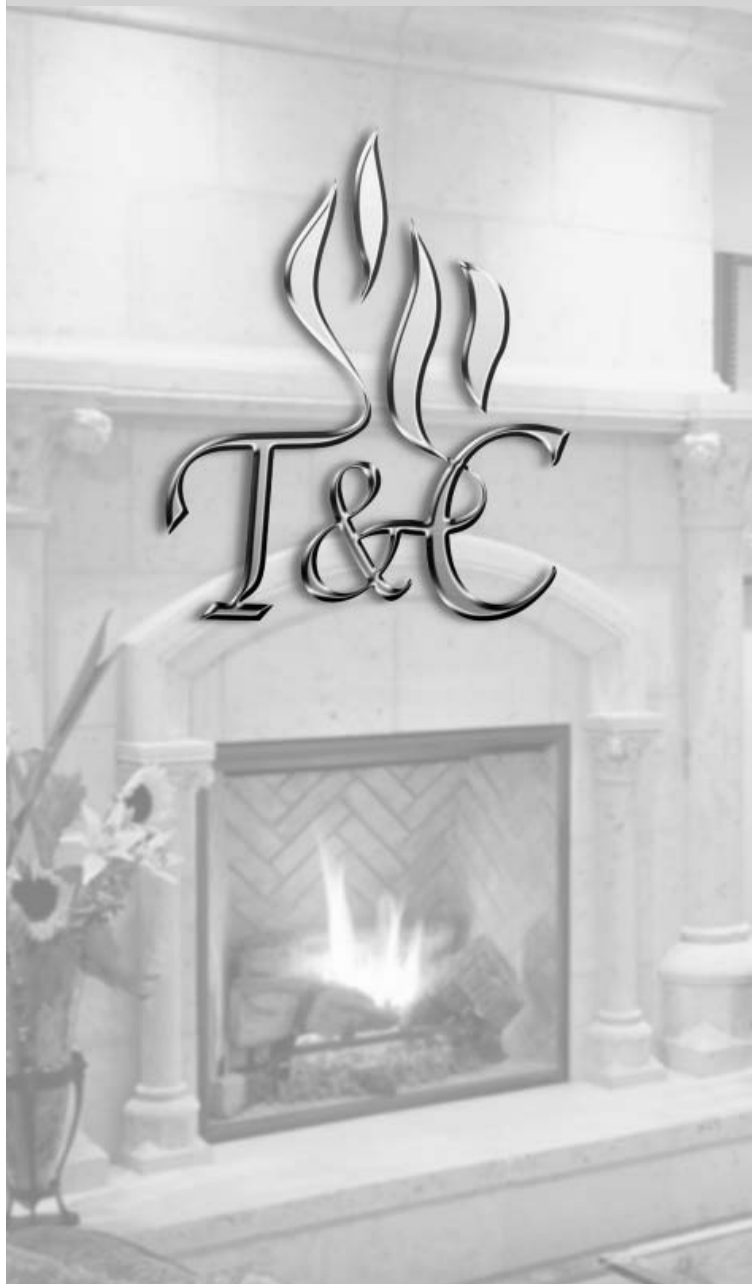


**IMPORTANT:
THESE INSTRUCTIONS ARE TO REMAIN
WITH THE APPLIANCE INSTRUCTIONS**

These instructions are supplementary to the Installation and Operating Instructions supplied with the fireplace and should be kept together. Refer to the Installation and Operating Instructions for proper gas supply, safety requirements and operating instructions



**TOWN & COUNTRY
FIREPLACES™**

HIGH CAPACITY POWER VENT KIT

- **Horizontal Termination Applications Only**
- **For Use on Electronic Ignition Units Only**

TCVT.PVAX2 INSTALLATION AND OPERATING INSTRUCTIONS

**NOTE:
THIS POWER VENT KIT
USES ONLY T&C 11X8
FLUE PIPE**



High Capacity Power Vent Installation

This Kit can only be used in conjunction with the TC54 Town and Country fireplaces.

Locate the fireplace as per the main instructions supplied.

Make the following modifications to add the components used with the Power Vent Kits.

Any of the silicon seals on the outer box that are broken during servicing must be re-sealed using RTV silicon during re-assembly to ensure a weather-proof seal.

This installation must conform with local codes or, in the absence of local codes, with the Natural Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

Contents of High Capacity Power Vent

MINIMUM CLEARANCES TO COMBUSTIBLE

Vertical vent pipe:
1.75 in. (45mm)

Horizontal vent pipe:

Top 1.75 in. (45mm)
Sides 1.75 in. (45mm)
Bottom 1.75 in. (45mm)

All other clearances are as per the fireplace installation instructions.

ITEM	DESCRIPTION	QTY
1	Power Vent Terminal	1
2	Venting Adaptor	1
3	Pressure Switch Wiring	1
4	Pressure Switch Clip	1
5	Pressure Switch	1
6	Tubing, TYSC-516316-100	1
7	Hose Clamp	2
8	Relay Wire Harness	1

Fig. #1

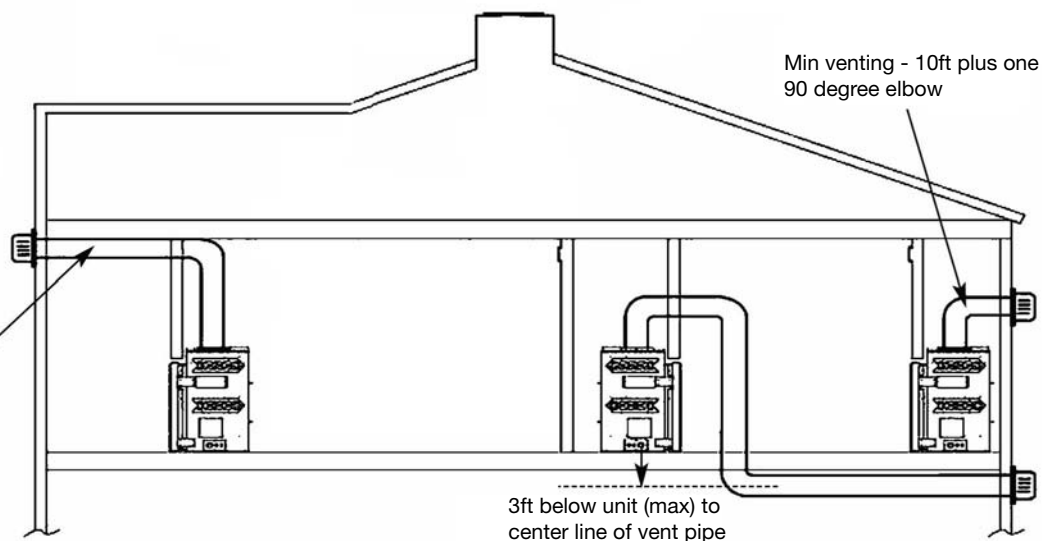
High Capacity Power Vent

Maximum vent length is 66 ft plus six 90 degree elbow or combination of other elbows equaling 90 degrees.

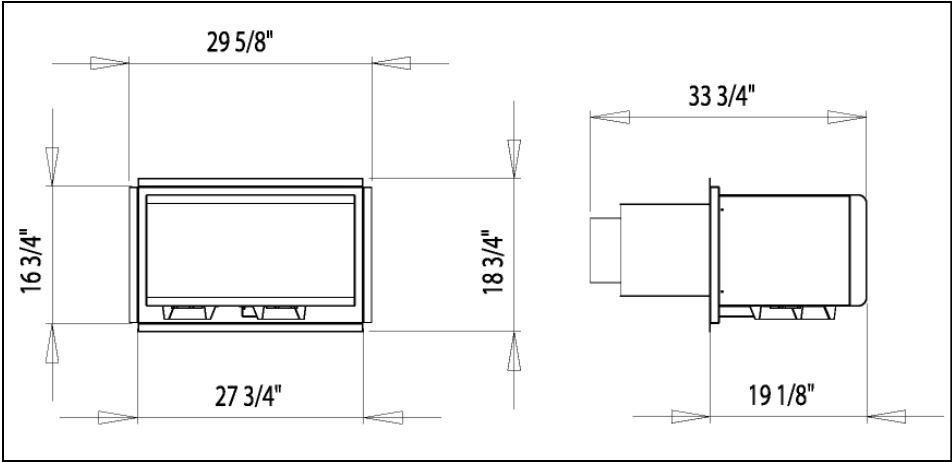
Minimum vent length is 10 ft plus one 90 degree elbow.

The vent can be installed with any combination of rise and run between the above figures including 3ft below the unit. Ensure that the vent pipe is properly supported.

Maximum venting - 66ft plus six 90 degree elbows

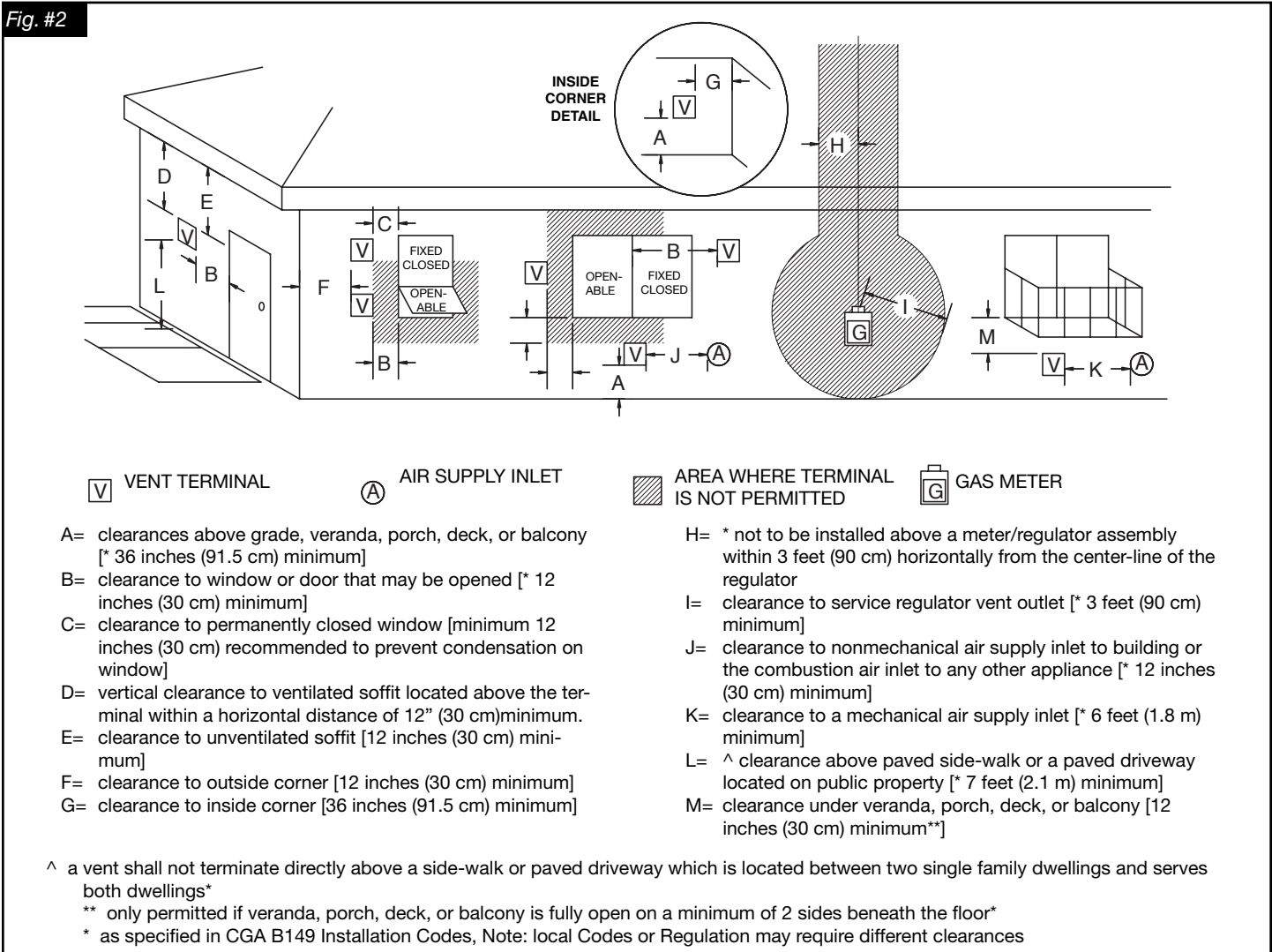


High Capacity Power Vent Terminal Dimensions



Vent Terminal Minimum Clearances

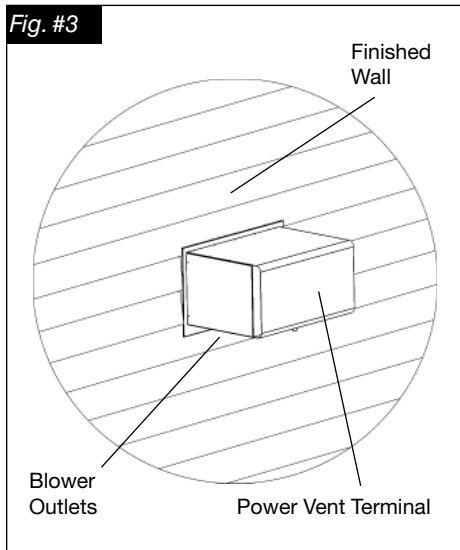
Fig. #2



Horizontal (Side Wall) Venting

This kit uses Town and Country direct vent pipe with a 8" inner pipe and an 11" outer pipe. For part numbers see the table of venting components on page 14 & 15 of this manual.

Fig. #3



1. Locate the power vent termination following the clearance to combustable table, venting configuration diagram (Fig. #1) and terminal location diagram (Fig. #2).
2. Cut and frame a 14" x 14" opening. The centre of the square hole should line up with the centre line of the horizontal pipe.
3. Install the Town and Country firestop in the opening to retain any insulation in the wall and maintain proper clearances. If the wall being penetrated is constructed of non-combustible material only (i.e. Masonry block or concrete) the wall thimble is not required and a hole with zero clearance is acceptable. (11" hole)
4. Attach the terminal to the outside wall. Ensure that the terminal is the right way up and that only the outer flanges that are used to secure the terminal to the building are covered by the exterior wall or siding. (Fig.#3) **Note: No other part of the terminal can be recessed into the exterior wall or siding.**
5. Attach the vent adaptor directly to the appliance with three screws and seal outer pipe with aluminium tape provided. **Note: The inner pipe does not need to be sealed.**

TO PAINT TERMINAL

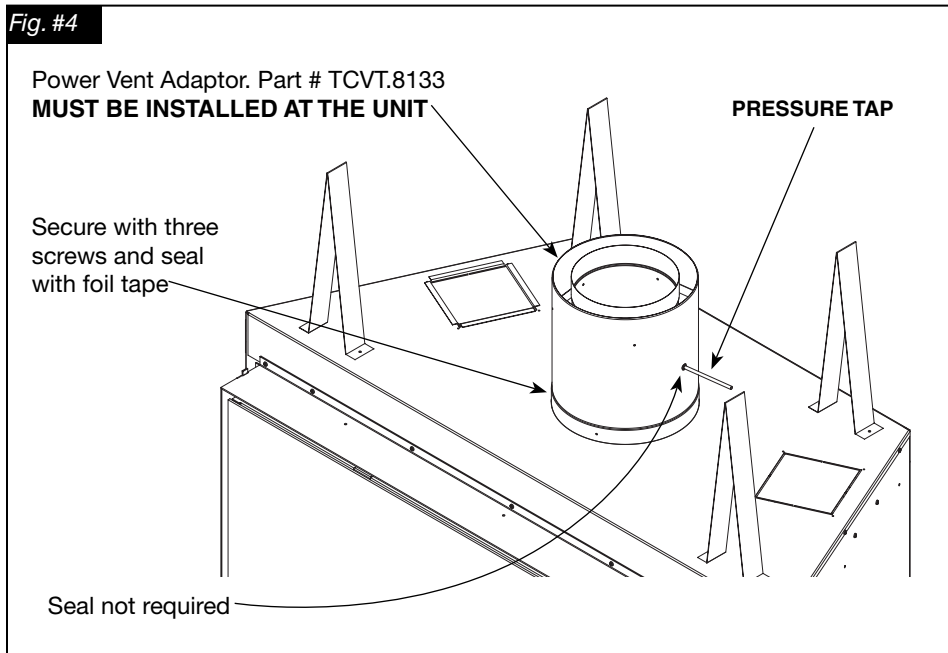
THIS TERMINAL MUST BE PAINTED AT THE TIME OF INSTALLATION.

THE PAINT USED SHOULD BE CERTIFIED TO WITHSTAND TEMPERATURE OF AT LEAST 225 F. (157 C).

WHEN PAINTING IT IS SUGGESTED THAT THE INLET AND OUTLET VENTS BE BLOCKED TO PREVENT PAINT BEING ACCIDENTALLY SPRAYED ON THE INTERNAL COMPONENTS OF THIS TERMINAL.

PLEASE ENSURE THAT INLET AND OUTLETS OF THIS TERMINATION ARE CLEAR PRIOR TO OPERATING THE FIREPLACE. FAILURE TO DO SO MAY CAUSE A FIRE OR EXPLOSION THAT MAY RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

Fig. #4



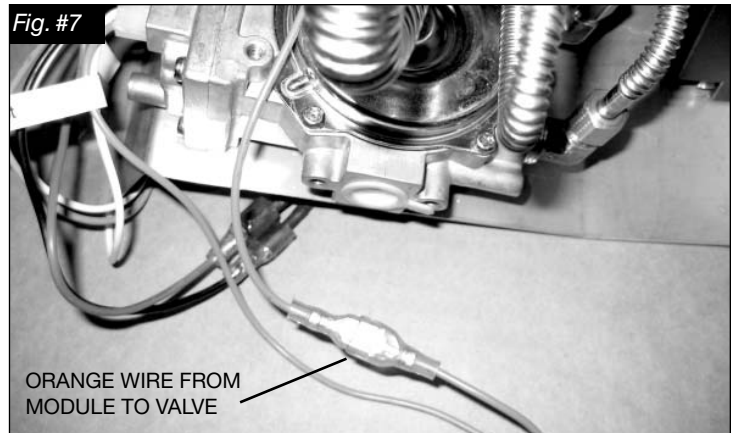
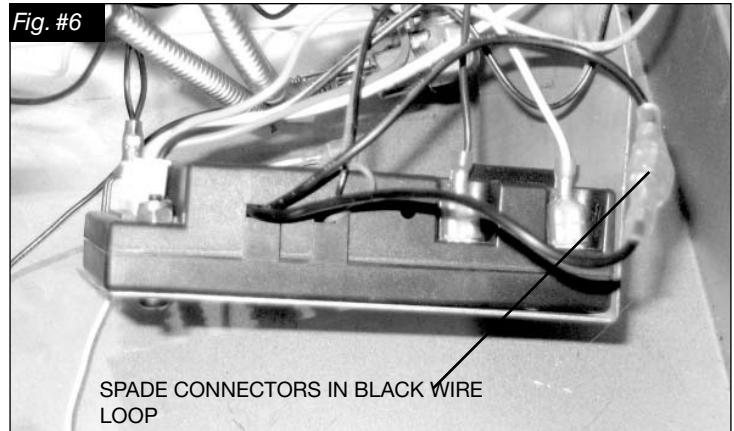
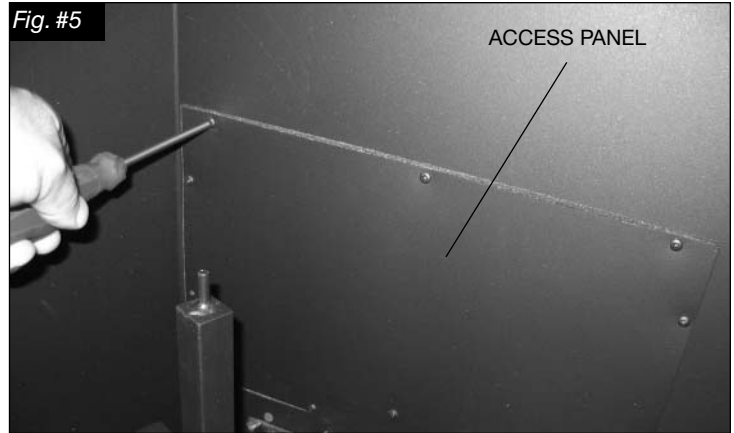
6. Connect the high temperature silicone tube to the vacuum pressure tap on the adaptor, secure with the hose clamp provided and route the tube through any hole back to control box. (Fig. #4) Tube may touch unit and be trimmed if required. **Note: Ensure that there are no blockages in this tube, as this will cause the control to malfunction.**
7. Run the required pipe from the adaptor to the terminal assembly. Assemble as per the vent pipe manufacturer's instructions.

Control System Connections for External Relay

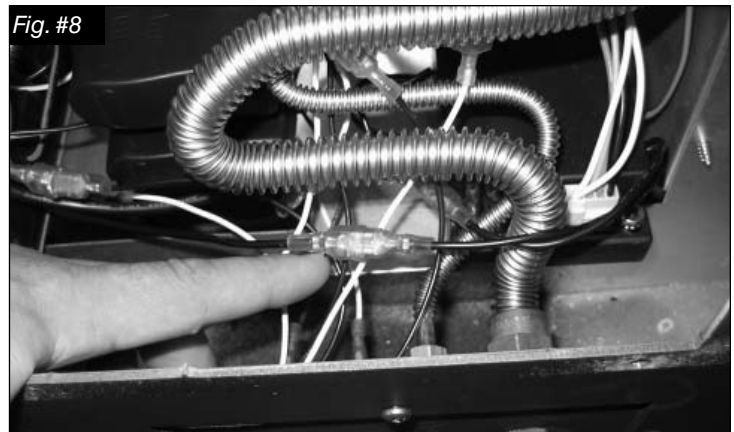
(TC54 SERIAL # 5001 – 5081)

The gas control system is located on the right hand side of the firebox behind an access panel and the decorative brick panel.

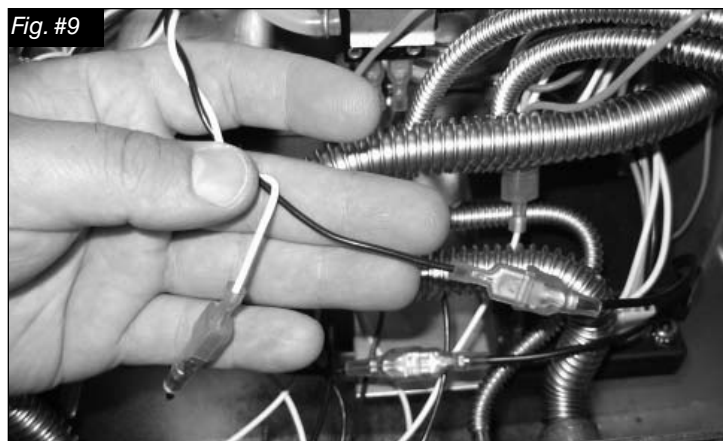
1. Remove burner grate, logs and brick panels if already installed.
2. Remove access panel from right hand side of the firebox. (Fig. #5)
3. Locate and disconnect the spade connectors in the black wire loop on the right side of the module and in the orange wire running from the module to the socket on the valve labelled "pilot". (Fig. # 6 and 7)



4. Connect the two modules in series by connecting a male connector from black wire loop from the one module to the female connector from the black wire loop on the other module.(Fig. # 8)



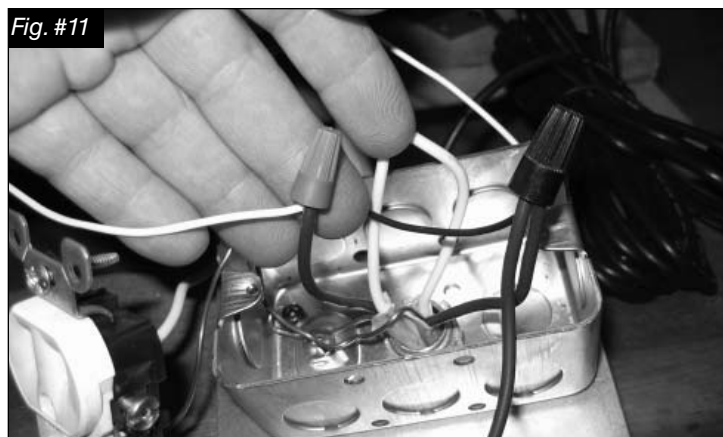
5. Connect the remaining male and female connectors from the black loops on each module to the pig tail connections on terminals 4 and 5 of the delay relay. (Fig. #9)



6. Connect the 120V hot supply wire to the pig tail connected to terminals 2 and 9 of the delay relay.(Fig. #10)



7. Connect the black wire from the blowers to the pig tail attached to terminal 8 of the delay relay. (Fig. #11)



8. Connect the white wire from the blowers to the white (neutral) wire from the 120V power supply and the pigtail from terminal 3 of the delay relay. (Fig #12)

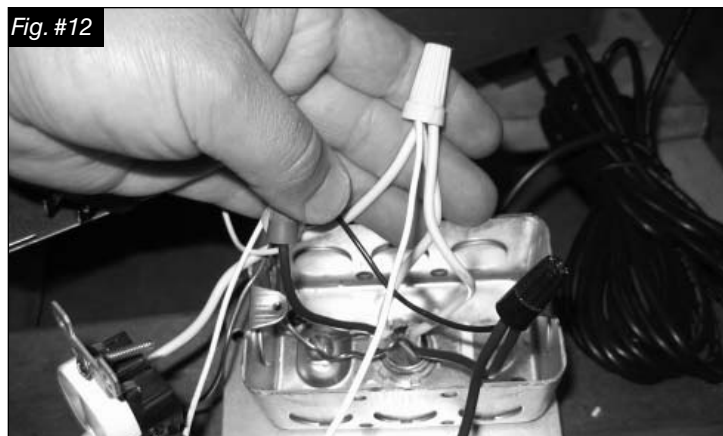
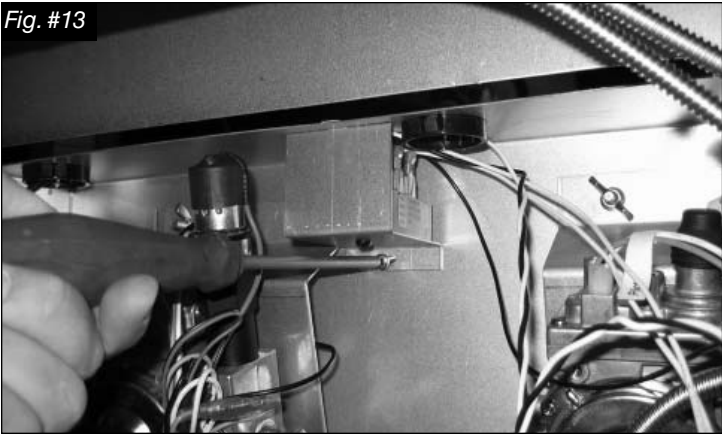


Fig. #13



9. Insert the tab on the relay module bracket into the slot in the top of the control box and secure with the screw provided. (Fig #13)

Fig. #14



10. Connect the pressure switch pig tails to the orange wires on both modules. (Fig. #14)

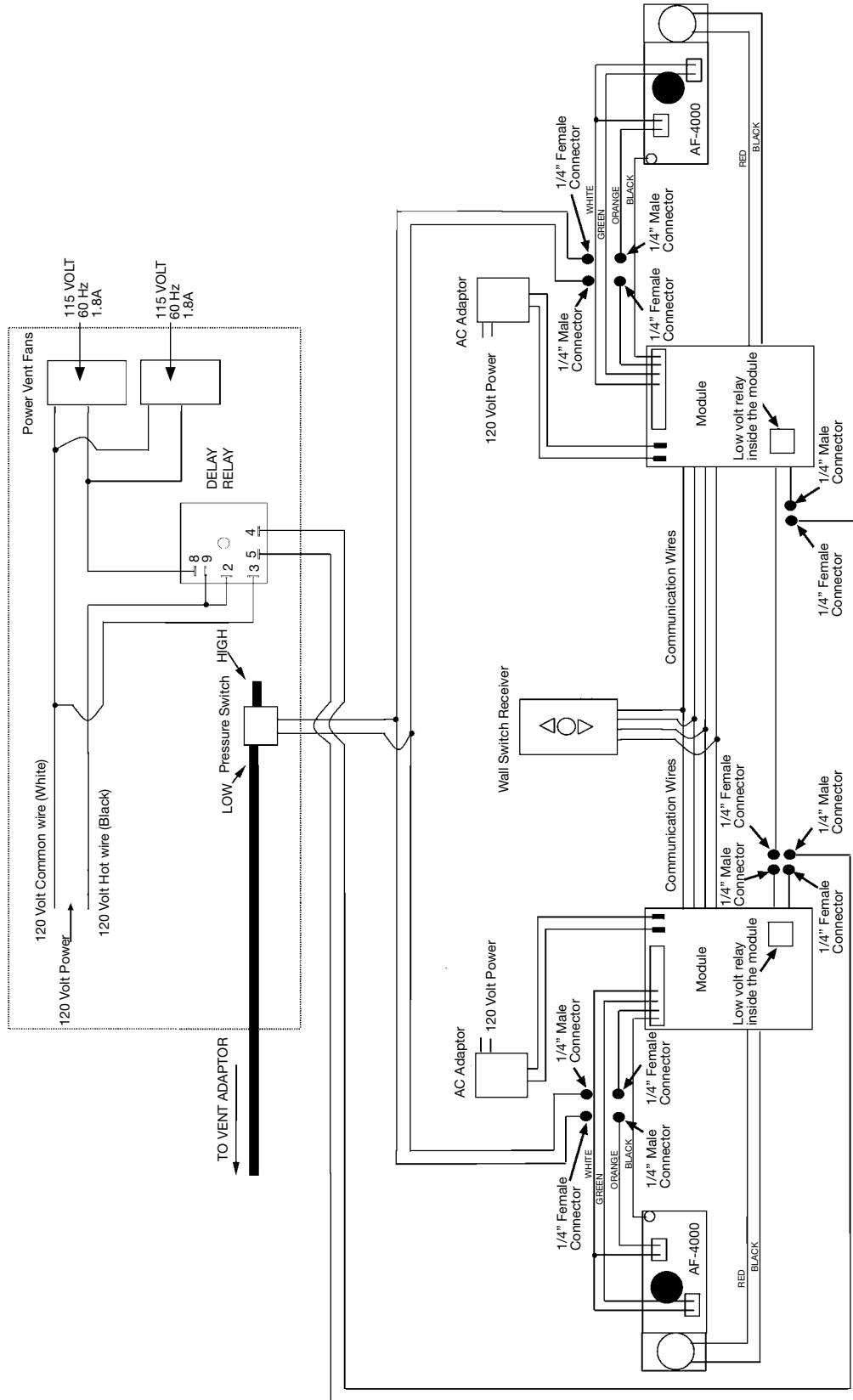
Fig. #15



11. Secure the pressure switch in the control box using the bracket provided with this kit. (Fig. #15)
12. Attach the silicone tube from the pressure tap to the low side of the pressure switch and secure using the hose clamp provided. (Fig. #15)
13. Position all wiring to ensure that there is no contact with the firebox side.
14. Continue with installation and reassemble all of the parts previously removed.

Wiring Diagram (External Relay TC54 Serial # 5001 – 5081)

Fig. #16

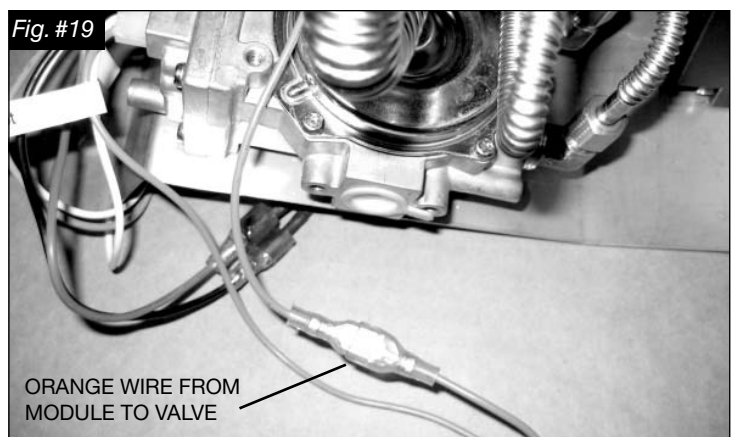
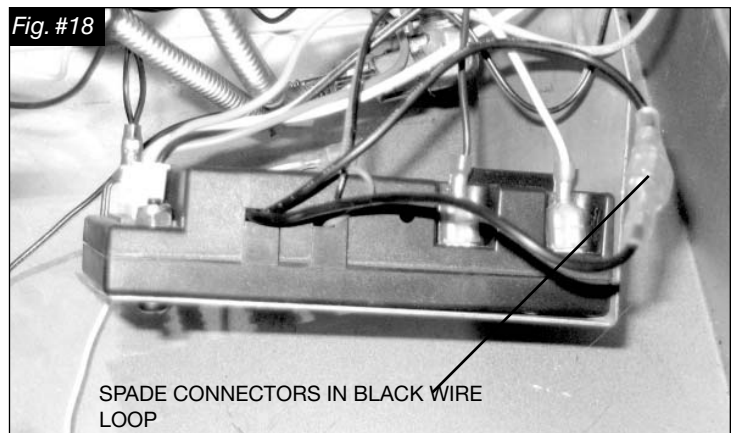
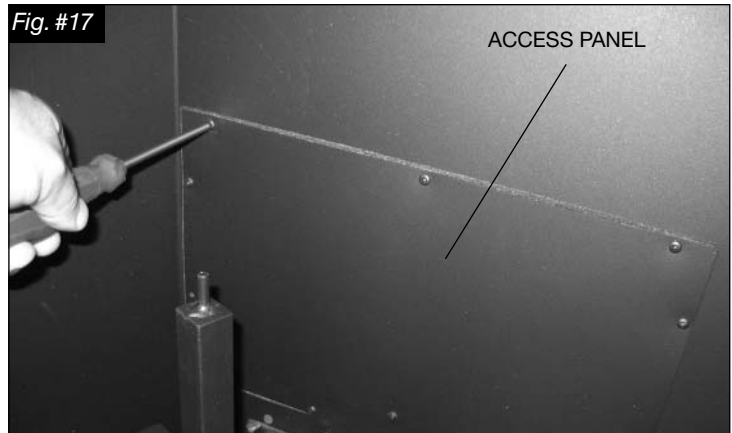


Control System Connections for Built-in Relay

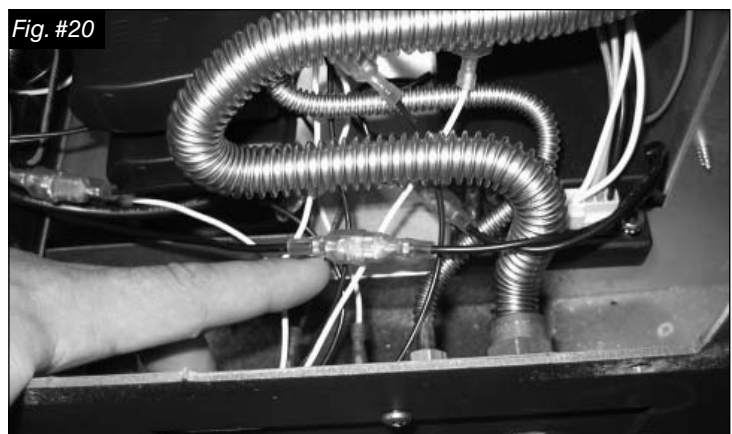
(TC54 Serial # 5082 ON)

The gas control system is located on the right hand side of the firebox behind an access panel and the decorative brick panel.

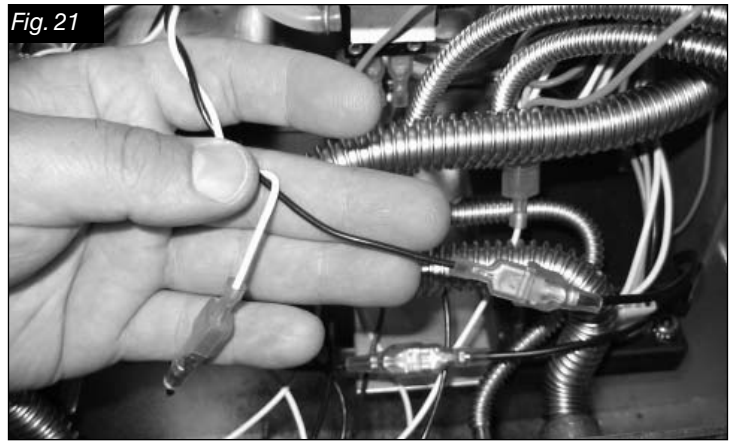
1. Remove burner grate, logs and brick panels if already installed.
2. Remove access panel from right hand side of the firebox. (Fig. #17)
3. Locate and disconnect the spade connectors in the black wire loop on the right side of the module and in the orange wire running from the module to the socket on the valve labelled "pilot". (Fig. # 18 and 19)



4. Connect the two modules in series by connecting a male connector from black wire loop from the one module to the female connector from the black wire loop on the other module.(Fig. # 20)



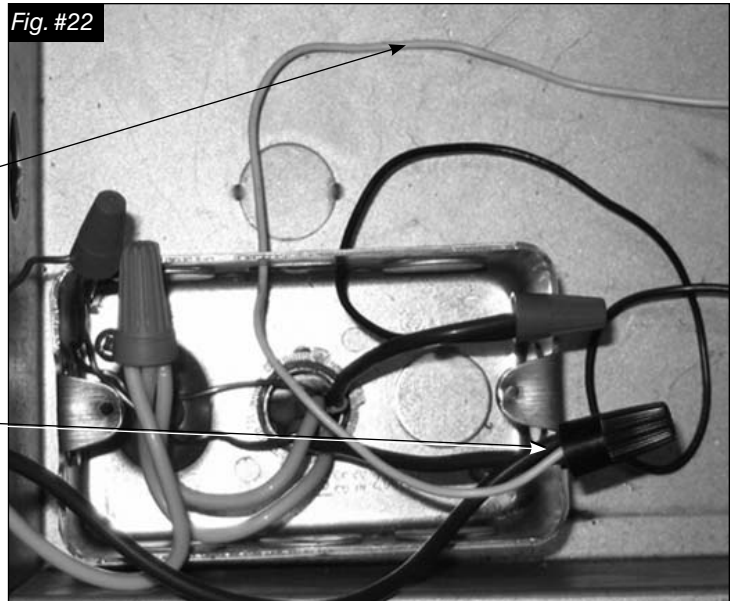
5. Connect the remaining male and female connectors from the black loops on each module to the pig tail connections supplied. (Fig. 21)



6. Connect the 120V hot supply wire to one of the pig tails from the module. (Fig. #22)

PIG TAIL TO MODULE

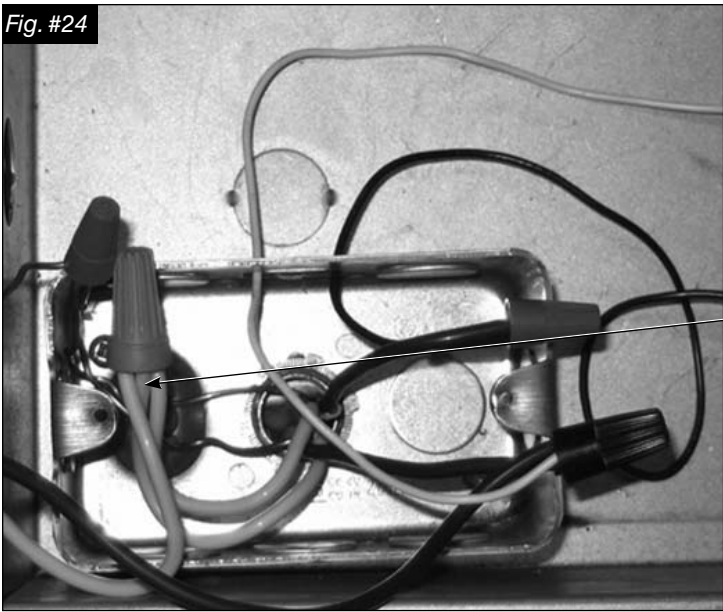
120V HOT SUPPLY WIRE



7. Connect one of the wires from the blowers to the other pig tail from the module. (Fig. #23)



Fig. #24



8. Connect the white (neutral) wire from the 120V power supply to the remaining wire from the blowers. (Fig. #24)

WHITE (NEUTRAL) WIRE FROM 120V POWER SUPPLY CONNECTED TO REMAINING WIRE FROM BLOWER.

Fig. #25



10. Connect the pressure switch pig tails to the orange wires on both modules. (Fig. #25)

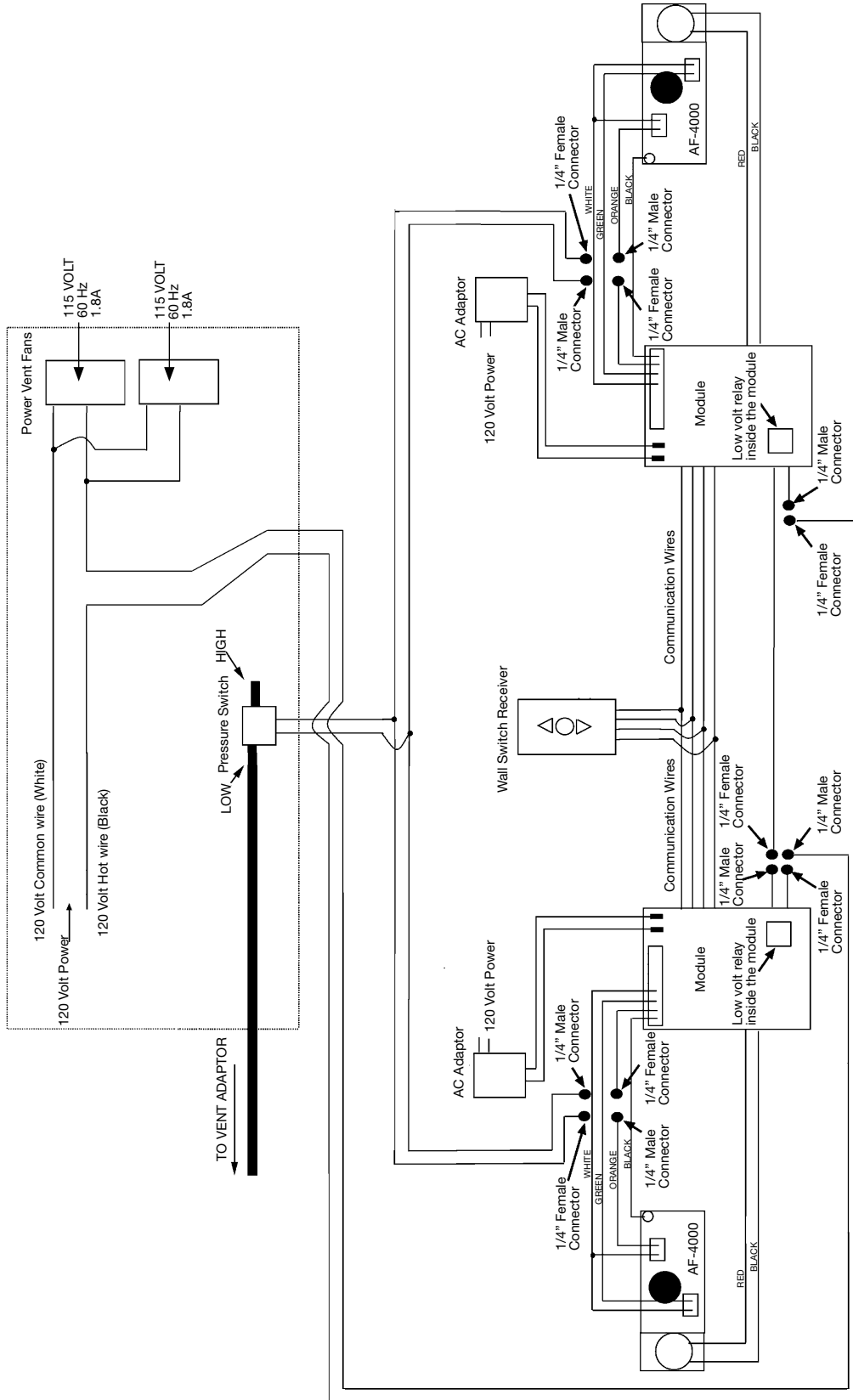
Fig. #26



11. Secure the pressure switch in the control box using the bracket provided with this kit. (Fig. #26)
12. Attach the silicone tube from the pressure tap to the low side of the pressure switch and secure using the hose clamp provided. (Fig. #26)
13. Position all wiring to ensure that there is no contact with the firebox side.
14. Continue with installation and reassemble all of the parts previously removed.

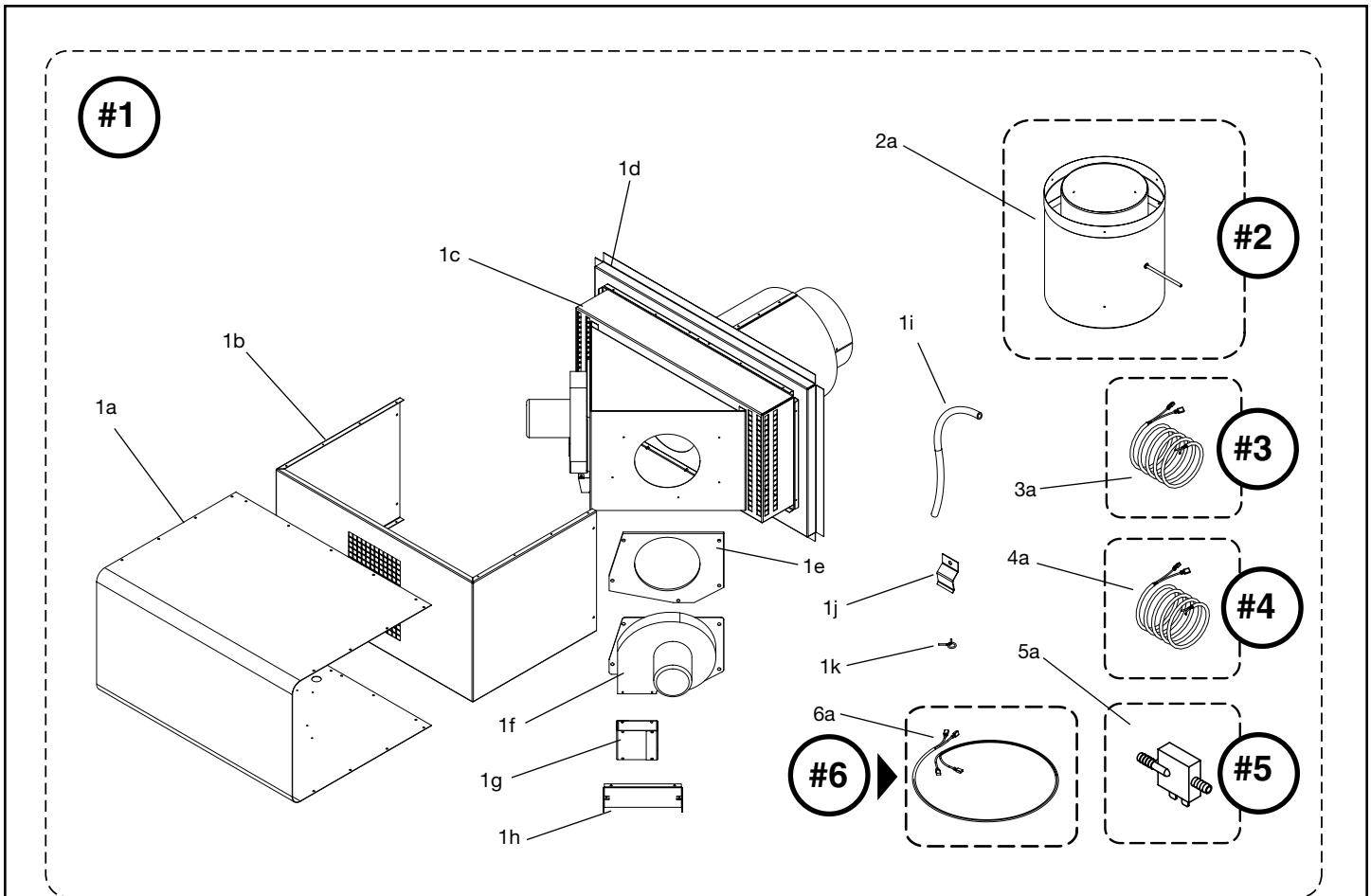
Wiring Diagram (Built-in Relay TC54 Serial # 5082 ON)

Fig. #27



Replacement Parts TCVT.PVAX2

ITEM.....	DESCRIPTION	PART NO.
#1.....	HIGH CAPACITY POWER VENT KIT	TCVT.PVAX2
#2.....	VENTING ADAPTER	TCVT.8133
#3.....	RELAY WIRE HARNESS	TCVT.507156C
#4.....	BLOWER WIRING	TCVT.5062512
#5.....	PRESSURE SWITCH.....	5027.1
#6.....	PRESSURE SWITCH WIRING.....	PVAX.250271



KIT CONTENTS:

#1.....HIGH CAPACITY POWER VENT KIT

- 1a TOP COVER (1)
- 1b SIDE COVER (1)
- 1c EXHAUST CHAMBER WELD (1)
- 1d INLET AIR CHAMBER WELD (1)
- 1e 1/4" LDF PAPER (HI TEMP GASKET) (2)
- 1f BLOWER POWER VENT (2)
- 1g OUTLET AIR ASSEMBLY (2)
- 1h EXHAUST SHIELD (2)
- 1i TUBE, 5/16" OD, 1/16" THICK (1)

- 1j PRESSURE SWITCH CLIP (1)
- 1k HOSE CLAMP (2)
- * DELAY RELAY (INCLUDING WIRING) (1)
(TC54 Serial #'s 5001 - 5081)
- * BUSHING, SHORTY B625 500 (2)
- * JUNCTION BOX (1)
- * 3/8" STRAIN RELIEF (1)
- 2a VENTING ADAPTER (1)
- 3a RELAY WIRE HARNESS (1)
- 4a BLOWER WIRING (2)
- 5a PRESSURE SWITCH (1)
- 6a PRESSURE SWITCH WIRING (1)

#2.....VENTING ADAPTER (1)

#3.....RELAY WIRE HARNESS (1) (TC54 Serial # 5082 ON)

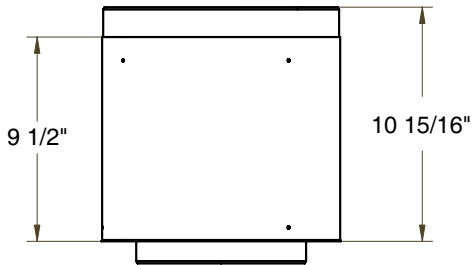
#4.....BLOWER WIRING (2)

#5.....PRESSURE SWITCH (1)

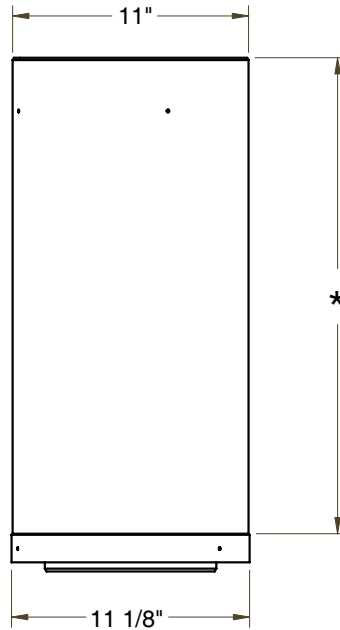
#5.....PRESSURE SWITCH WIRING (1)

* Not shown. See TC54 Installation Manual

Venting Components

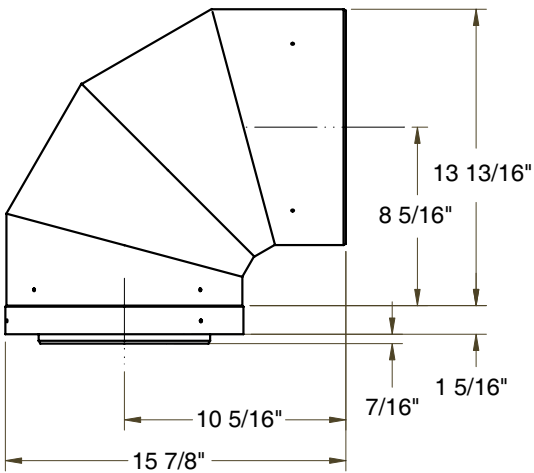


TCVT.811X12ADJ

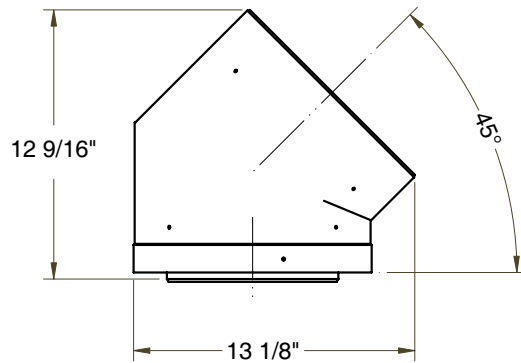


TCVT.811X__

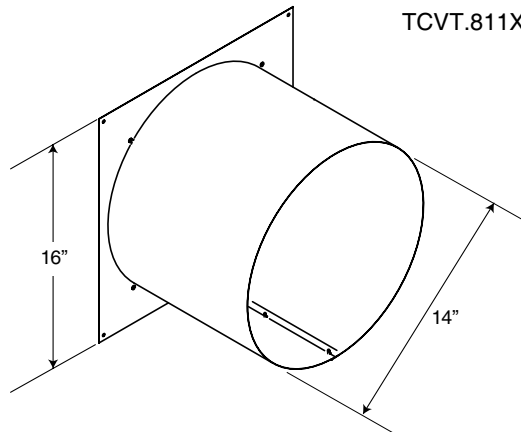
- 12" Pipe 10 1/4"
- 18" Pipe 16 1/4"
- 24" Pipe 22 1/4"
- 48" Pipe 46 1/4"



TCVT.811XLB90

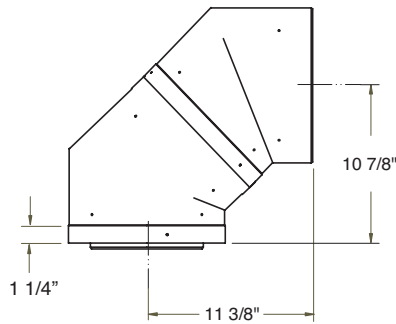


TCVT.811XLB45



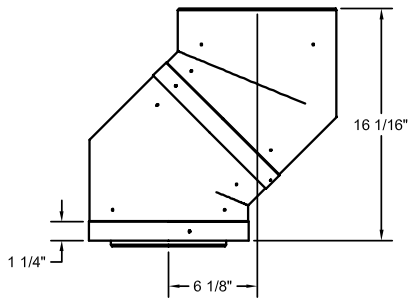
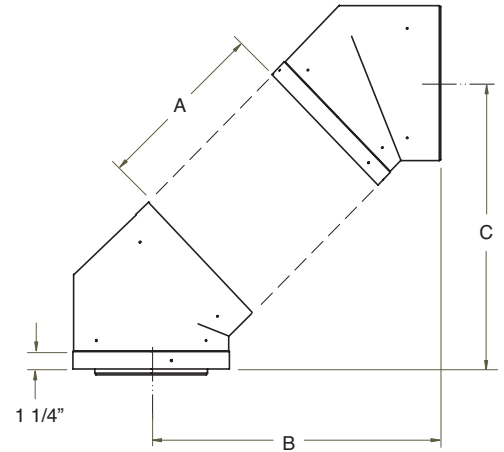
WALL SHIELD/CEILING FIRESTOP THIMBLE TCVT.THIMA

Vent Offset Chart



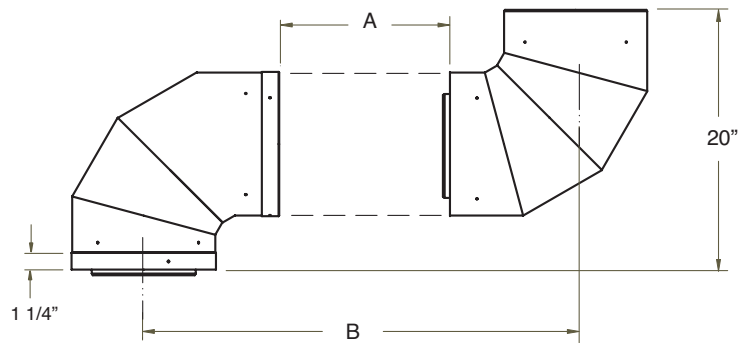
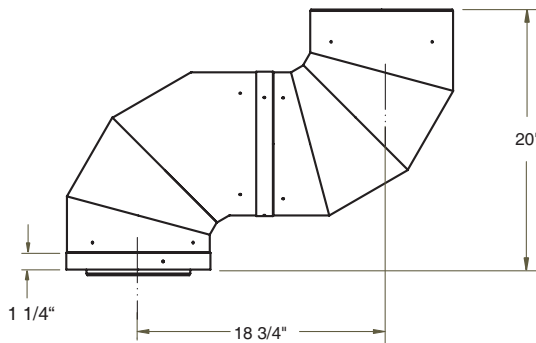
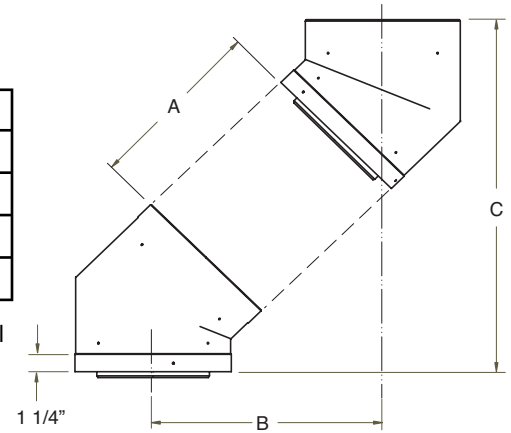
A	B	C
12" Pipe	18 5/8"	18"
18" Pipe	22 7/8"	22 3/8"
24" Pipe	27 1/8"	26 1/2"
48" Pipe	44 1/16"	43 1/2"

Adding an adjustable section to pipe will increase offset by 2 1/8" to 6 3/4"



A	B	C
12" Pipe	13 7/16"	23 1/4"
18" Pipe	17 9/16"	27 5/8"
24" Pipe	21 7/8"	31 3/4"
48" Pipe	38 3/4"	48 7/8"

Adding an adjustable section to pipe will increase offset by 2 1/8" to 6 3/4"



A	B
12" Pipe	29"
18" Pipe	35"
24" Pipe	41"
48" Pipe	65"

Adding an adjustable section to pipe will increase offset by 3" to 9 1/2"



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