

# SV Series Insert Manual



For complete installation instructions, see the Tube Heater General Manual that accompanies this Series Insert Manual.

**RE-VERBER-RAY**  
by Detroit Radiant Products Company

The SV Series Infrared Tube Heater is a negative pressure, single stage radiant heater system. This insert manual is a supplement to the Tube Heater General Manual and provides specific information related to the SV series model. All persons involved with the installation, operation, and maintenance of the heater system must read and understand the information in this insert manual and the accompanying Tube Heater General Manual.

## ⚠ WARNING



Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

This heater must be installed and serviced by trained gas installation and service personnel only. Failure to comply could result in personal injury, asphyxiation, death, fire, or property damage.



In locations used for the storage of combustible materials, signs must be posted to specify the maximum permissible stacking height to maintain the required clearances from the heater to the combustibles. Signs must either be posted adjacent to the heater thermostats or, in the absence of such thermostats, in a conspicuous location.



**Not for residential use!** Do not use this heater in the home, sleeping quarters, attached garages, etc. Installation of a commercial tube heater system in residential indoor spaces may result in property damage, serious injury, asphyxiation, or death.

## For Your Safety

### If you smell gas:

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

### INSTALLER: Present this manual to the end user.

Keep these instructions in a clean and dry place for future reference.

Model#: \_\_\_\_\_ Serial #: \_\_\_\_\_  
(located on rating label)

LIO SVa-Rev. 18111  
Print: 1M-07/20\_r2-12/20 (CDS)  
Replaces: LIO SVa-1M-03/19 (CDS)

# Contents

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**NOTE:** See page 10 for a list of available models and specifications.

## WARNING

### California Proposition 65

This product can expose you to chemicals including lead and carbon monoxide, which are known to the State of California to cause birth defects or other reproductive harm.

For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 1.0 Safety

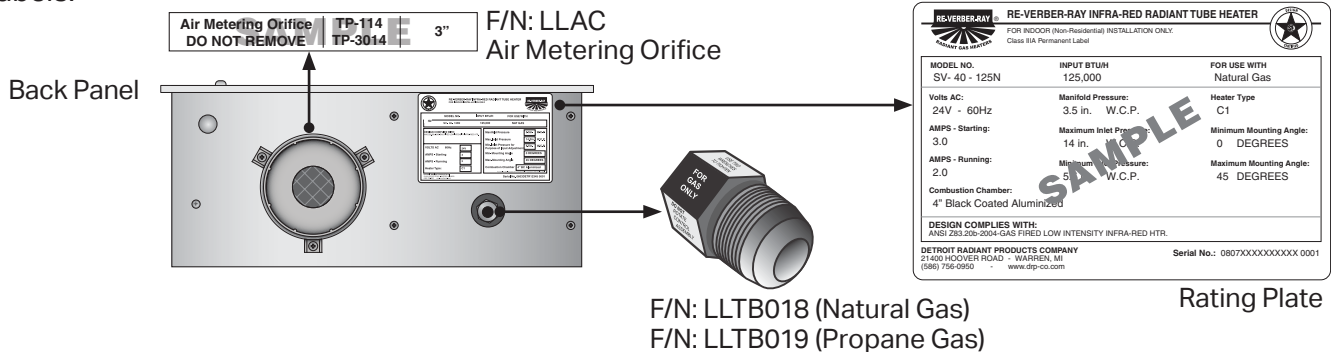
## ⚠ WARNING



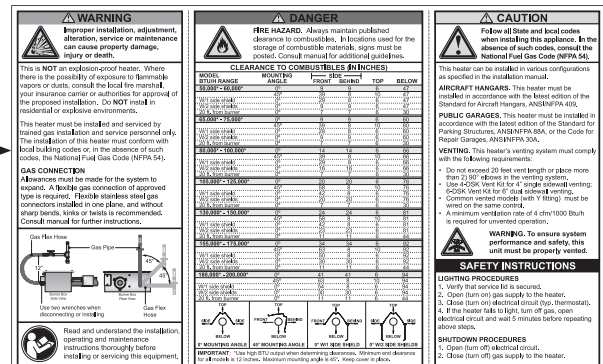
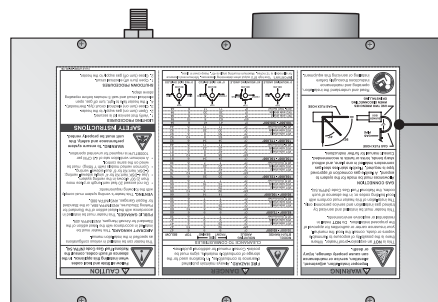
Read and understand all safety information and warnings in this manual before installation, operation, and maintenance of the radiant tube heater system.

## Safety Labels and Their Locations

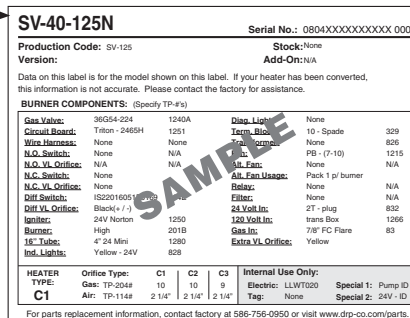
Product safety signs or labels should be replaced by the product user when they no longer are legible. Contact either your local distributor or the product manufacturer for obtaining replacement signs or labels.



Top Panel



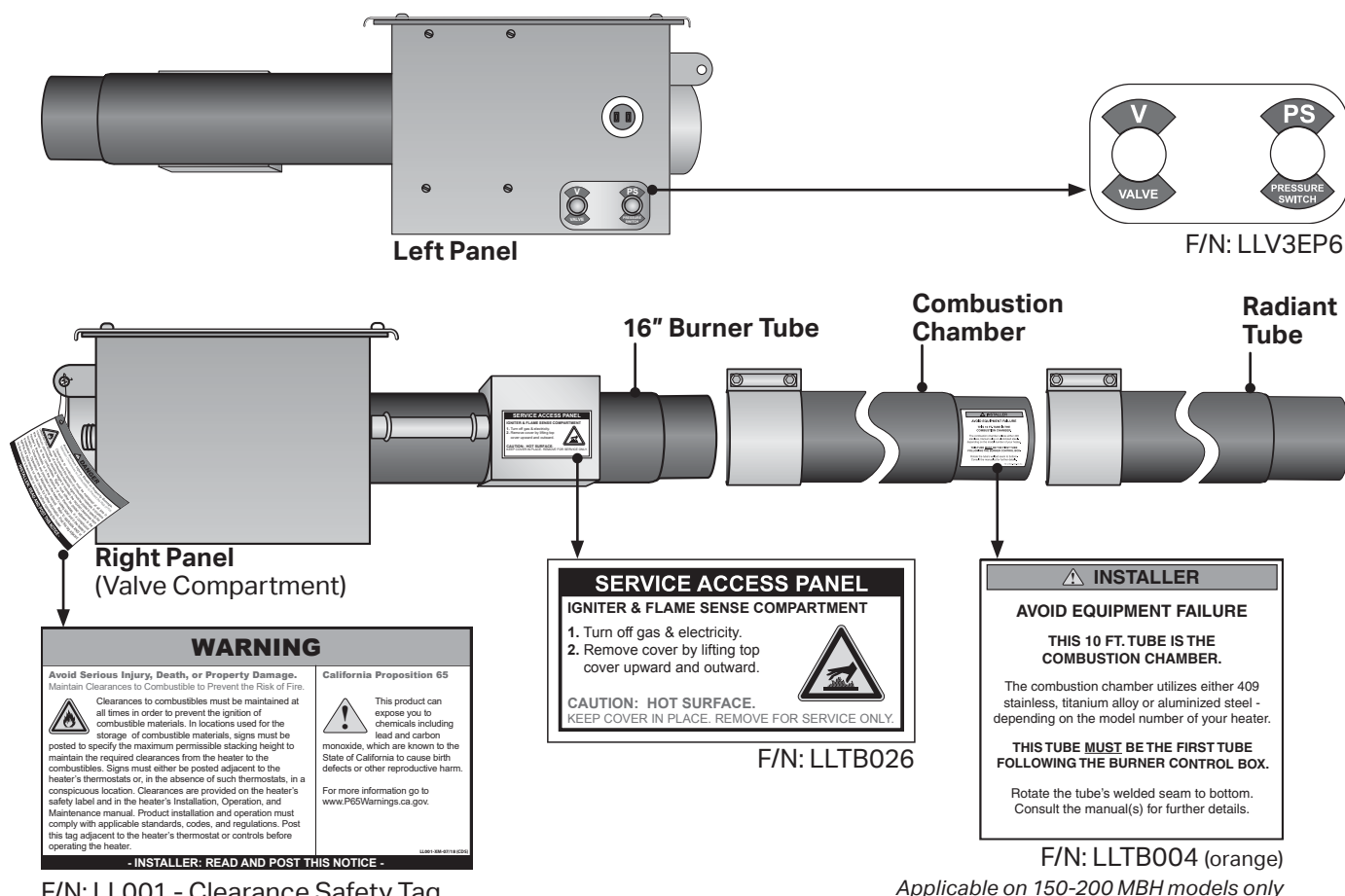
F/N: LLTCL001  
Clearances to Combustibles Label



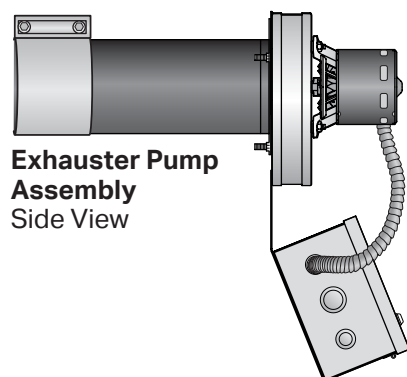
Burner Control Box  
Component Label  
(located under the top panel)



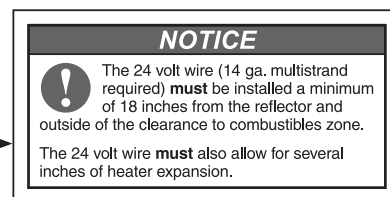
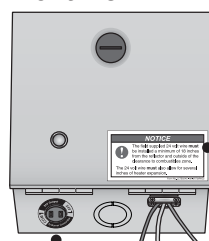
F/N: LLLOGO32



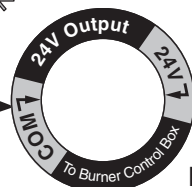
F/N: LL001 - Clearance Safety Tag  
(Affix adjacent to heater's thermostat).



**Power Box Front View**



F/N: LLTB032



F/N: LLTB033

## Clearances to Combustibles

### ⚠ WARNING



Placement of explosive objects, flammable objects, liquids, and vapors close to the heater may result in explosion, fire, property damage, serious injury, or death. Do not store or use explosive objects, liquids, or vapors in the vicinity of the heater.

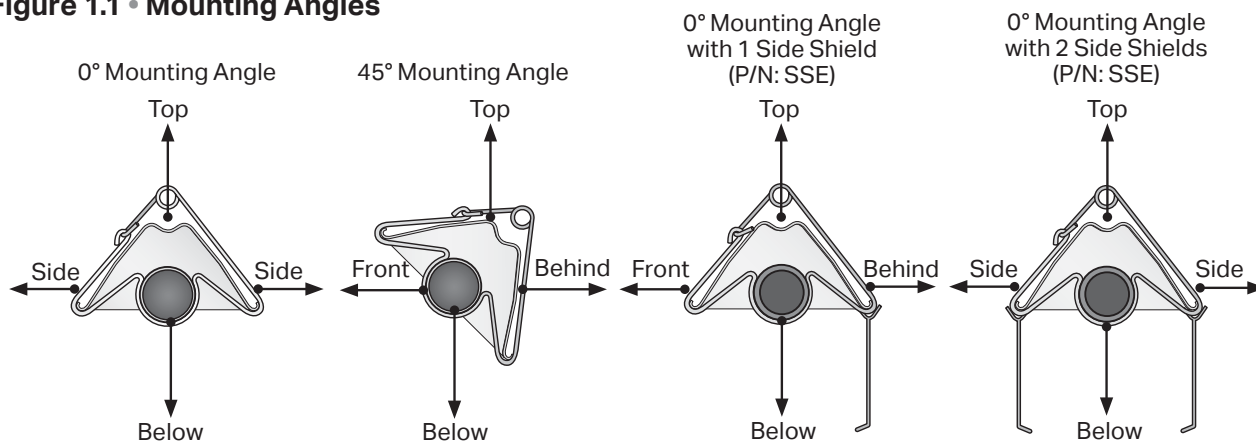
**Clearance to combustibles** is defined as *the minimum distance that must be maintained between the tube surface, or reflector, and any combustible items* (see Figure 1.1). It also pertains to the distance that must be maintained from moving objects around the tube heater. Refer to Chart 1.1 to determine the required distances for your model.

**Chart 1.1 • Clearances to Combustibles in Inches** (see Figure 1.1 for Mounting Angles)

Model Number	Mounting Angle*	Side		Top	Below
		Front	Behind		
<b>SV (20, 30, 40) - 50, 60 [N, P]</b>	0°	9	9	6	47
	45°	39	8	10	47
	with 1 side shield	0°	8	6	47
	with 2 side shields	0°	9	6	47
	20 ft. from burner	0°	7	6	30
<b>SV (20, 30, 40) - 75 [N, P]</b>	0°	9	9	6	60
	45°	39	8	10	60
	with 1 side shield	0°	8	6	60
	with 2 side shields	0°	9	6	60
	20 ft. from burner	0°	7	6	30
<b>SV (30, 40, 50) - 100 [N, P]</b>	0°	14	14	6	66
	45°	39	8	10	66
	with 1 side shield	0°	8	6	66
	with 2 side shields	0°	16	6	66
	20 ft. from burner	0°	7	6	30
<b>SV (30, 40, 50, 60) - 125 [N, P]</b>	0°	20	20	6	76
	45°	58	8	10	76
	with 1 side shield	0°	8	6	76
	with 2 side shields	0°	20	6	76
	20 ft. from burner	0°	7	6	30
<b>SV (40, 50, 60) - 150 [N, P]</b>	0°	24	24	6	81
	45°	58	8	10	81
	with 1 side shield	0°	8	6	81
	with 2 side shields	0°	23	6	81
	20 ft. from burner	0°	11	6	44
<b>SV (40, 50, 60, 70) - 175 [N, P]</b>	0°	34	34	6	92
	45°	63	8	10	92
	with 1 side shield	0°	8	6	92
	with 2 side shields	0°	30	6	92
	20 ft. from burner	0°	11	6	44
<b>SV (50, 60, 70, 80) - 200 [N, P]</b>	0°	41	41	6	94
	45°	63	8	10	94
	with 1 side shield	0°	8	6	94
	with 2 side shields	0°	30	6	94
	20 ft. from burner	0°	11	6	44

\*Heaters mounted on an angle between 0° and 45° must maintain clearances posted for 0° or 45°, whichever is greater.

The stated clearance to combustibles represents a surface temperature of 90°F (50°C) above room temperature. Building materials with a low heat tolerance (such as plastics, vinyl siding, canvas, tri-ply, etc.) may be subject to degradation at lower temperatures. It is the installer's responsibility to assure that adjacent materials are protected from degradation.

**Figure 1.1 • Mounting Angles**

## 2.0 Installation

### WARNING



**Not for residential use!** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, serious injury, or death.

Read and understand the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment. Only trained, qualified gas installation and service personnel may install or service this equipment.

Instructions for the following are detailed in the Tube Heater General Manual:

- Design considerations
- Hanger suspension and placement
- Tube layout and assembly
- Burner control box suspension
- Reflectors (and accessories)
- Venting and combustion air intake
- Gas requirements
- Baffle assembly

**Note:** Electronic versions of all manuals are available at [www.detroitradiant.com](http://www.detroitradiant.com)

### Gas Requirements

Type of Gas	Required Manifold Pressure	Minimum Inlet Pressure	Maximum Inlet Pressure
Natural	3.5 Inches W.C.	5.0 Inches W.C.	14.0 Inches W.C.
Propane	10.0 Inches W.C.	11.0 inches W.C.	14.0 Inches W.C.

**NOTE:** Check manifold pressure at the tap on the gas valve. Small variations in manifold pressure (actual vs. published) may exist due to changing atmospheric conditions. Readings will be above atmospheric pressure.



**IMPORTANT:** Consult the Tube Heater General Manual for gas connection requirements.

### Electrical Requirements

### WARNING



#### Electric Shock

Field wiring to the tube heater must be connected and grounded in accordance with national, state, provincial, and local codes, and to the guidelines in the Tube Heater General Manual and Series Insert Manual. In the United States refer to the most current revisions to the ANSI/NFPA 70 Standard and in Canada refer to the most current revisions to the CSA C22.1 Part I Standard.

Power to the exhauster assembly is supplied via a 120 VAC-60 Hz. connection and controlled via a thermostat or switch. The burner control box is powered by 24 VAC via the terminal plug connection from the exhauster power box assembly. See Figures 2.1-2.2.

- 120 VAC - 60 Hz GRD, 3-wire
- Starting current 3.0 Amps
- Running current 2.0 Amps

The use of 14 ga. minimum multi strand wire (field supplied) is required to connect the exhauster assembly to the burner control box. A round terminal plug accepts two (2) 1/4" insulated female spade terminals (field supplied).

**IMPORTANT:** The wire (field supplied) connecting the exhauster power box assembly to the burner control box **must** be mounted a minimum of 18 inches from the top of the reflector and outside of any other clearance requirements. The span of wire **must** allow for several inches of heater expansion.

## Thermostat

SV series heaters require a 120 VAC thermostat to operate. **NOTE:** Different thermostats operate according to their particular features. Refer to thermostat specifications for details.

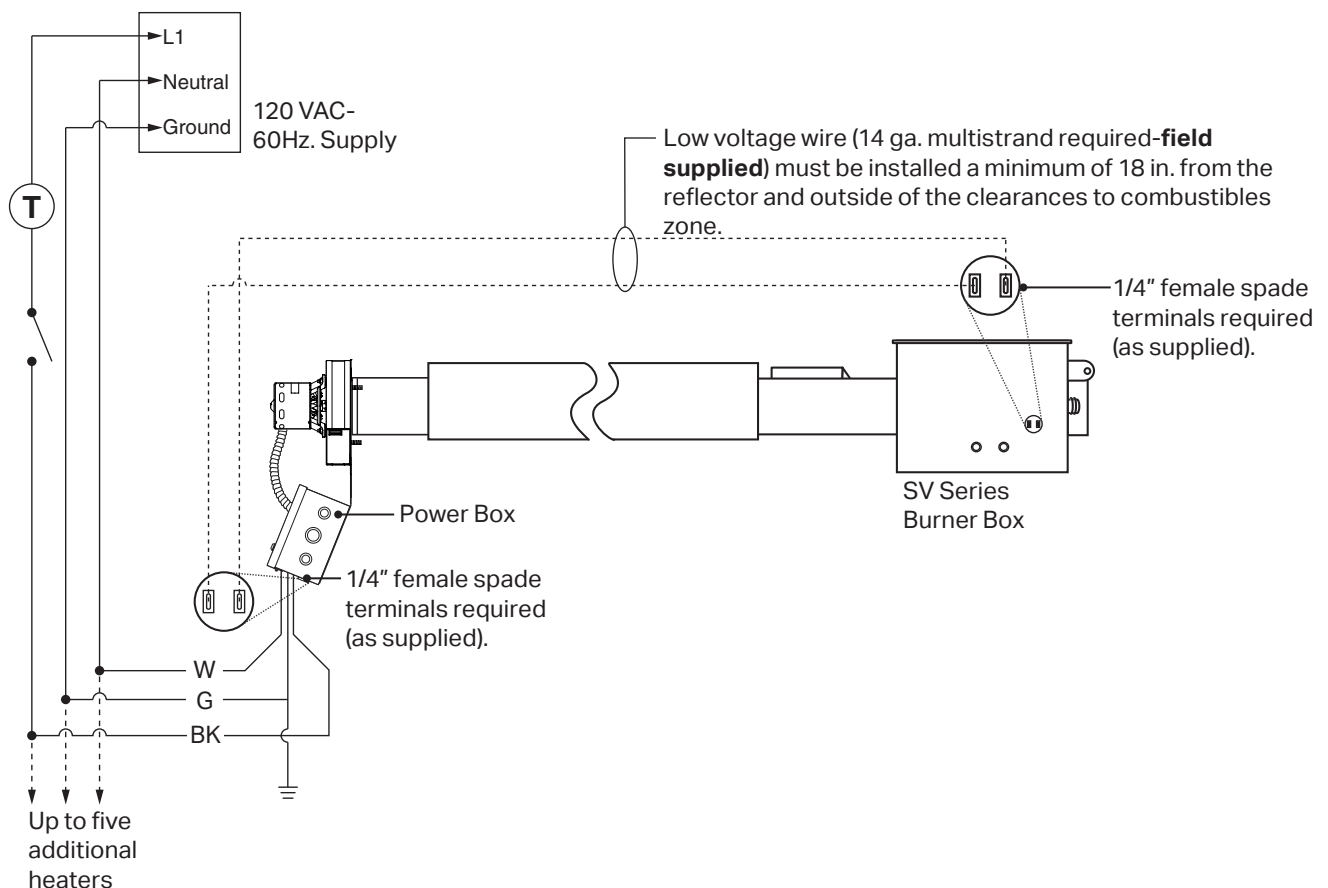
**NOTE:** The wire (field supplied) is **not** where the thermostat is tied into. The thermostat switches the 120 VAC supply voltage. Refer to field wiring diagrams (Figures 2.1A & 2.1B).

## Wiring

**NOTE:** If any of the original wire as supplied with the appliance must be replaced, it must be replaced with wiring material having a rating of at least 600 V, 105° C.

**Figure 2.1 • Field Wiring Diagrams**

**A. Line Voltage Thermostat Wiring - Single thermostat (20 A), up to six heaters.**



## Figure 2.1 • Field Wiring Diagrams

**B. Low Voltage Thermostat Wiring (with optional R8285B transformer relay) - Up to Five Heaters per branch.**

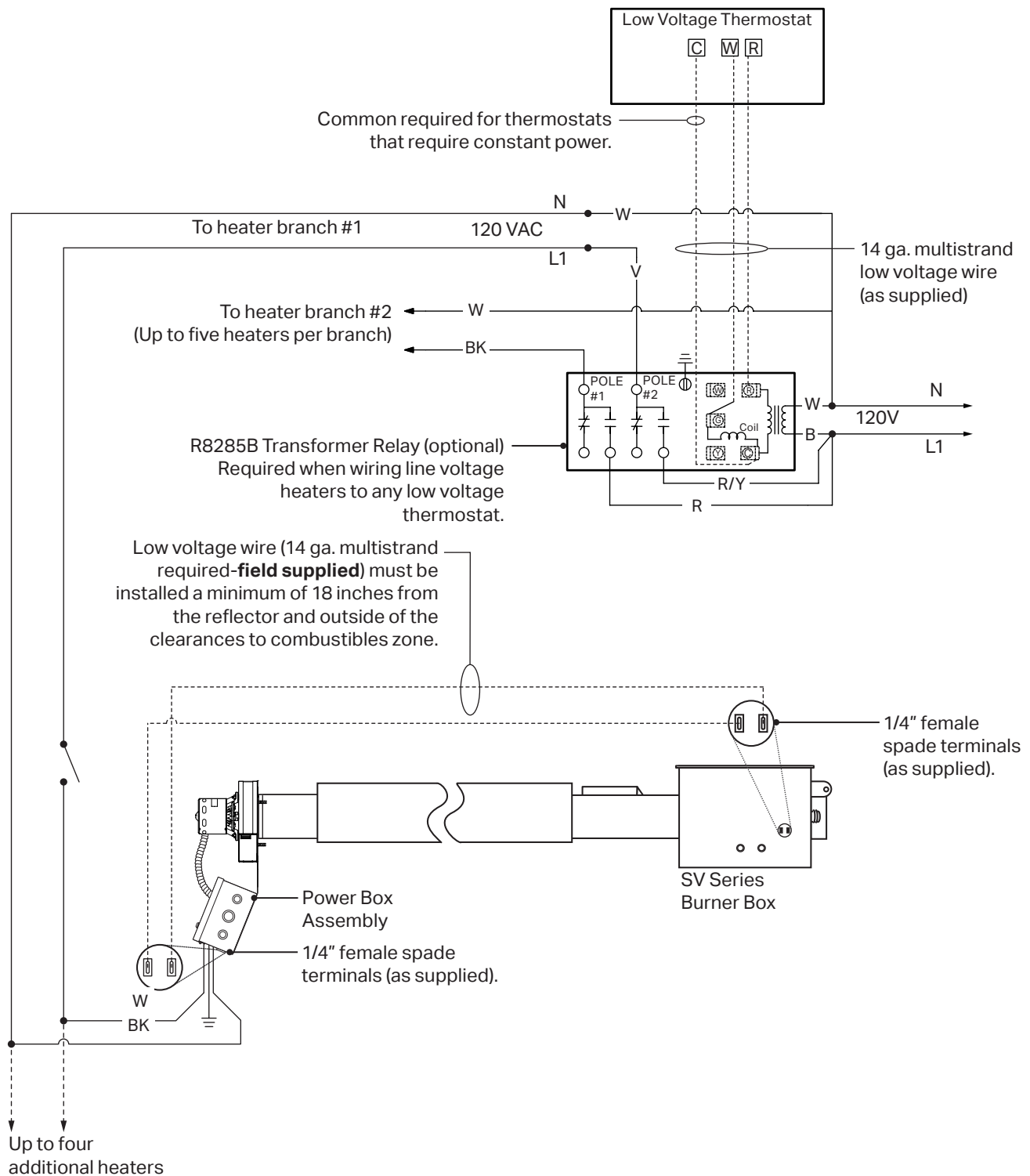
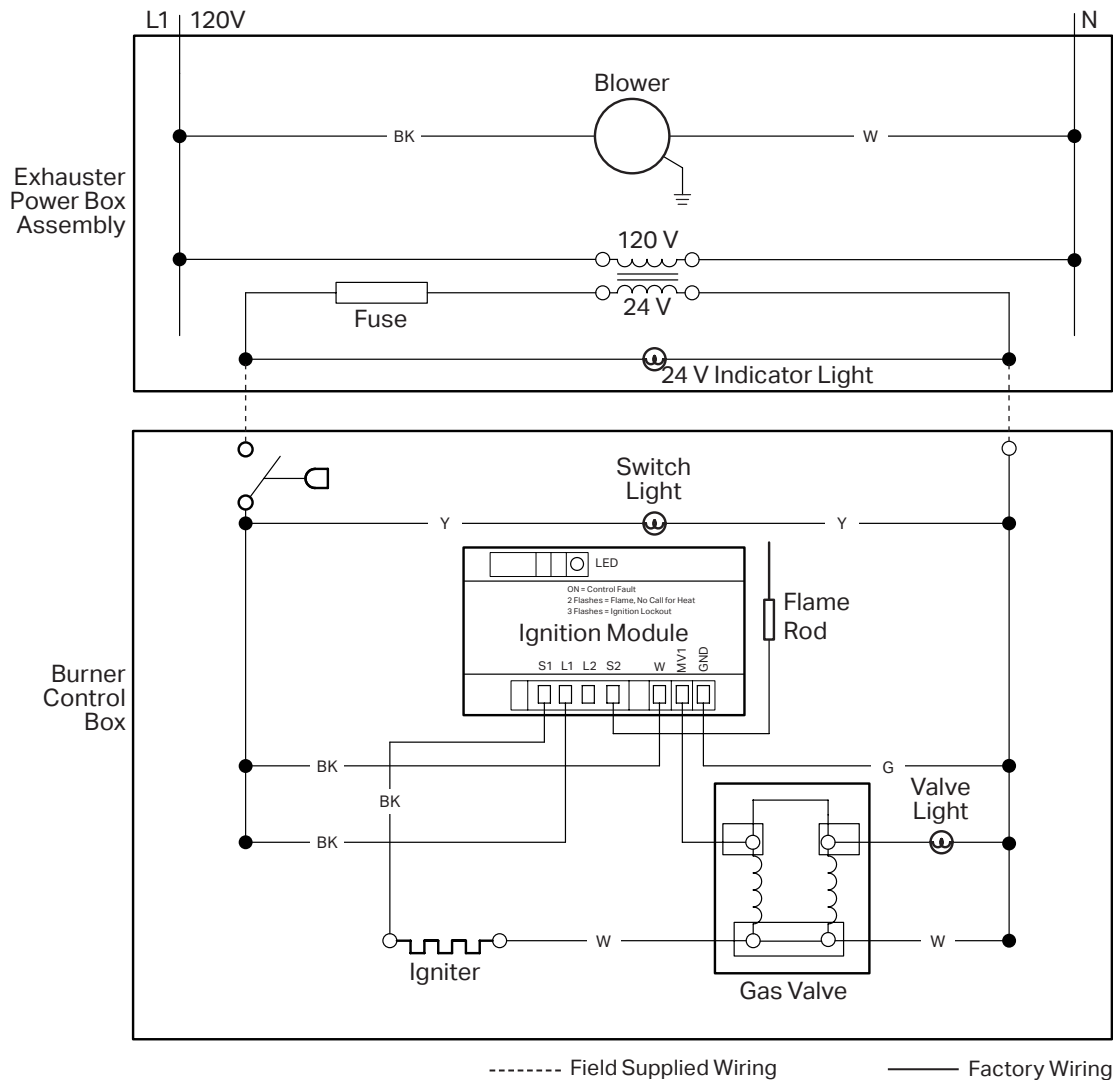
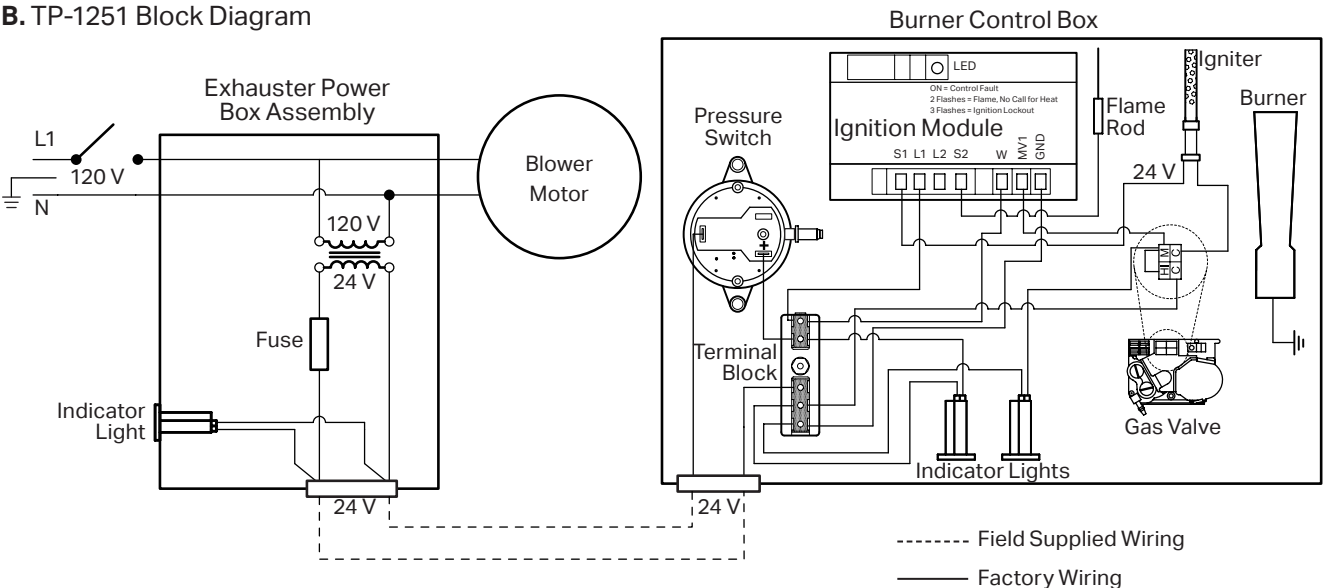


Figure 2.2 • Internal Wiring Diagrams

A. TP-1251 Ladder Diagram



B. TP-1251 Block Diagram



## Specifications

Chart 2.1 • Specifications

Model Number	Gas Type (select one)	BTU/h	Straight Length	U-Tube Length	Standard Weight (lbs.)	Recommended Mounting Height	Combustion Chamber	Radiant Emitter Tube(s) (Black Coated)	Radiant Surface Area (sq. ft.)	36" Baffle Sections	Maximum Vent Length (ft.)
<b>SV-20-50</b>	Nat. or Prop.	50,000	22'-7"	13'-0"	140	9' to 14'	Alum	Alum	20.2	5	25
<b>SV-20-60</b>	Nat. or Prop.	60,000	22'-7"	13'-0"	140	10' to 15'	Alum	Alum	20.2	5	25
<b>SV-20-75</b>	Nat. or Prop.	75,000	22'-7"	13'-0"	140	10' to 15'	Alum	Alum	20.2	5	30
<b>SV-30-50</b>	Nat. or Prop.	50,000	32'-3"	**17'-8"	180	10' to 15'	Alum	Alum	30.4	4	20
<b>SV-30-60</b>	Nat. or Prop.	60,000	32'-3"	**17'-8"	180	11' to 18'	Alum	Alum	30.4	4	20
<b>SV-30-75</b>	Nat. or Prop.	75,000	32'-3"	**17'-8"	180	12' to 20'	Alum	Alum	30.4	4	25
<b>SV-30-100</b>	Nat. or Prop.	100,000	32'-3"	**17'-8"	180	13' to 23'	Alum	Alum	30.4	3	30
<b>SV-30-125</b>	Nat. or Prop.	125,000	32'-3"	**17'-8"	180	14' to 25'	Alum	Alum	30.4	5	35
<b>SV-40-50</b>	Nat. or Prop.	50,000	41'-11"	22'-8"	210	11' to 18'	Alum	Alum	40.5	3	20
<b>SV-40-60</b>	Nat. or Prop.	60,000	41'-11"	22'-8"	210	11' to 18'	Alum	Alum	40.5	3	20
<b>SV-40-75</b>	Nat. or Prop.	75,000	41'-11"	22'-8"	210	12' to 20'	Alum	Alum	40.5	3	25
<b>SV-40-100</b>	Nat. or Prop.	100,000	41'-11"	22'-8"	210	13' to 23'	Alum	Alum	40.5	2	25
<b>SV-40-125</b>	Nat. or Prop.	125,000	41'-11"	22'-8"	210	14' to 25'	Alum	Alum	40.5	4	30
<b>SV-40-150</b>	Nat. or Prop.	150,000	41'-11"	22'-8"	210	15' to 27'	Titan	Alum	40.5	4	35
<b>SV-40-175</b>	Nat. or Prop.	175,000	41'-11"	22'-8"	210	16' to 30'	Titan	Alum	40.5	4	35
<b>SV-50-100</b>	Nat. or Prop.	100,000	51'-7"	**27'-4"	255	15' to 27'	Alum	Alum	50.6	1	25
<b>SV-50-125</b>	Nat. or Prop.	125,000	51'-7"	**27'-4"	255	15' to 27'	Alum	Alum	50.6	3	30
<b>SV-50-150</b>	Nat. or Prop.	150,000	51'-7"	**27'-4"	255	16' to 30'	Titan	Alum	50.6	3	30
<b>SV-50-175</b>	Nat. or Prop.	* 175,000	51'-7"	**27'-4"	255	17' to 35'	Titan	Alum	50.6	3	35
<b>SV-50-200</b>	Nat. or Prop.	* 200,000	51'-7"	**27'-4"	255	18' to 40'	Titan	Alum	50.6	4	35
<b>SV-60-125</b>	Nat. or Prop.	125,000	61'-3"	32'-4"	285	16' to 32'	Titan	Alum	60.7	2	25
<b>SV-60-150</b>	Nat. or Prop.	150,000	61'-3"	32'-4"	285	17' to 35'	Titan	Alum	60.7	2	25
<b>SV-60-175</b>	Nat. or Prop.	* 175,000	61'-3"	32'-4"	285	17' to 35'	Titan	Alum	60.7	2	30
<b>SV-60-200</b>	Nat. or Prop.	* 200,000	61'-3"	32'-4"	285	18' to 40'	Titan	Alum	60.7	3	30
<b>SV-70-175</b>	Nat. or Prop.	* 175,000	70'-11"	**37'-0"	320	19' to 42'	Titan	Alum	70.9	1	25
<b>SV-70-200</b>	Nat. or Prop.	* 200,000	70'-11"	**37'-0"	320	19' to 42'	Titan	Alum	70.9	2	30
<b>SV-80-200</b>	Nat. or Prop.	* 200,000	80'-7"	42'-0"	350	20' to 45'	Titan	Alum	80.1	1	25

See Figure 2.6 for exhaust assembly dimensions.

\* Model requires stainless steel tube clamp (P/N: TP-220) to be located at the seam between the first and second 10 ft. tube sections downstream of the burner control box.

\*\* Model requires 5EA-SUB accessory package when installing in a 'U' configuration (P/N: TF1B).

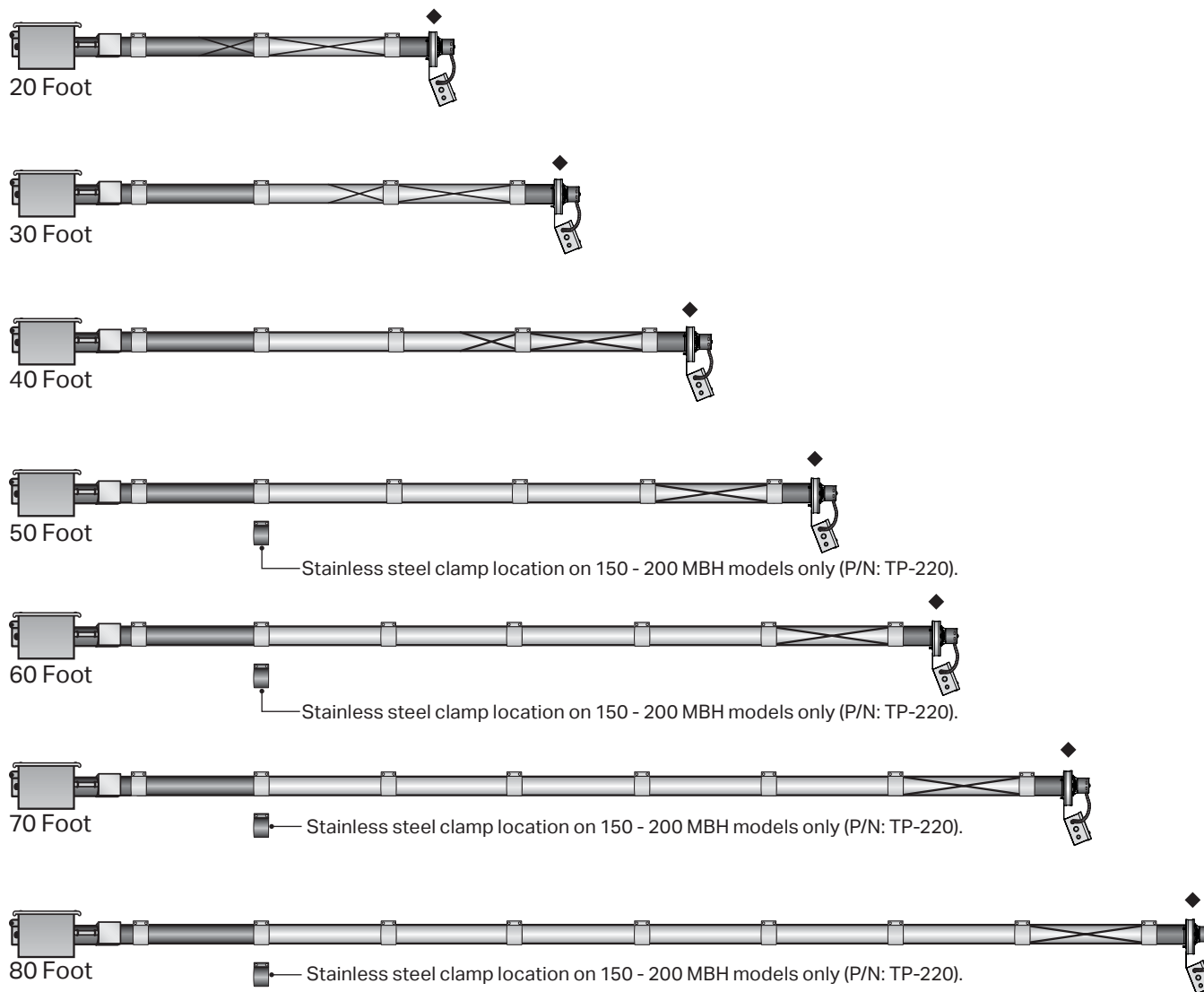
Titan = Black coated titanium stabilized aluminized steel.

Alum = Black coated aluminized treated steel.

## Tube Installation Sequence

**Figure 2.4 • Tube Installation Sequence**

**Important!** The combustion chamber and radiant tube sections must be installed in the following order.



### Key



Burner Control Box  
with 16" Burner Tube



Combustion Chamber



Coated Aluminized  
Radiant Emitter Tube



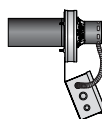
Baffle Location



Standard Tube Clamp



Stainless Steel Tube  
Clamp (P/N: TP-220)  
*150-200 MBH models only - Located  
between 1st and 2nd 10 ft. tube sections.*



Exhauster Pump Assembly



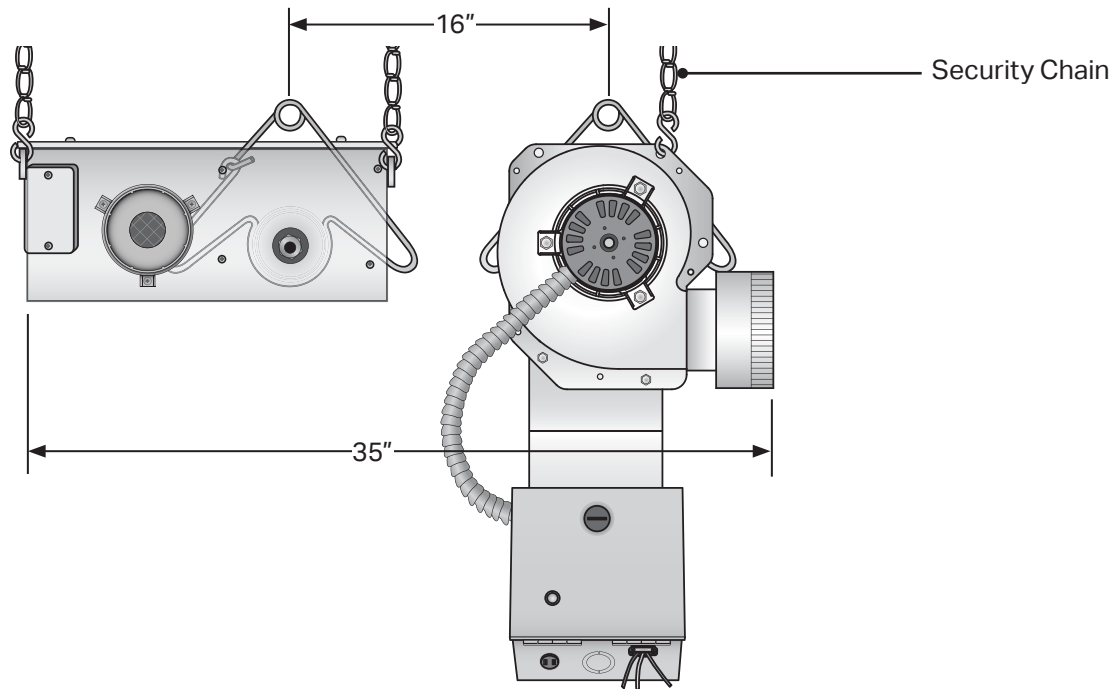
Security Chain Location (P/N: THCS)

**Note:** Refer to the Tube Heater General Manual, Chart 3.6 (page 23) for secured reflector joints.

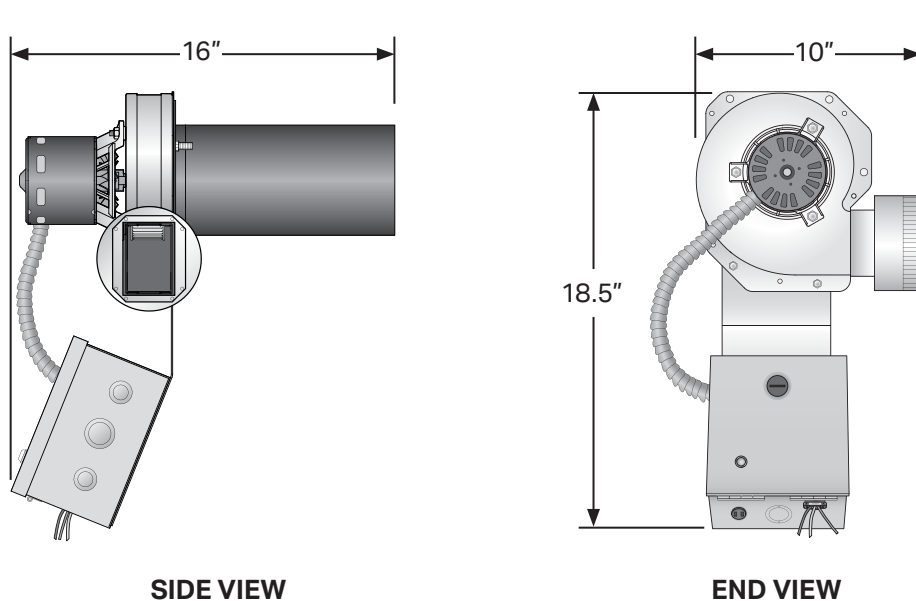
## Exhauster Mounting Details

When installing this heater in a U-shaped configuration, the exhauster assembly and the burner control box must not interfere with each other. When looking at the U-shaped configuration from behind, the burner control box is on the left and the exhauster assembly is on the right. See Figure 2.5.

**Figure 2.5 • Exhauster Assembly Mounting Details - U-Shaped Configuration**



**Figure 2.6 • Exhauster Assembly Dimensions**



## 3.0 Operation

### ⚠ WARNING



This heater must be installed and serviced by trained gas installation and service personnel only.

Do not bypass any safety features or the heater's built in safety mechanisms will be compromised.

**NOTE:** Reference the Tube Heater General Manual (F/N: LIOGTa) for installation requirements.

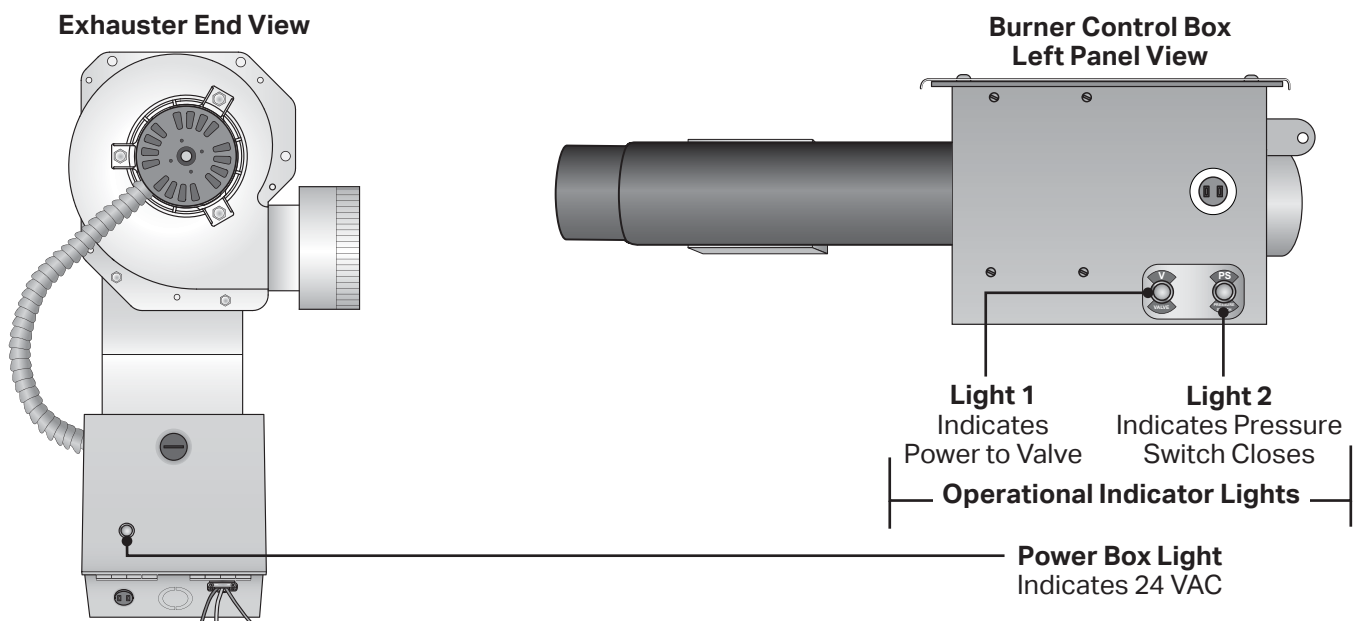
### Sequence of Operation

**Starting Circuit:** Upon a call for heat, the exhauster fan energizes creating a negative air pressure allowing the differential pressure switch to close. A low voltage circuit is completed from the secondary side of the transformer to the ignition module. After a five (5) second delay, the igniter is powered. After seven (7) seconds, gas valve opens initiating the ignition trial. If flame is not sensed after 15 seconds, the heater will attempt to re-ignite for a total of three (3) trials for ignition before entering lockout mode.

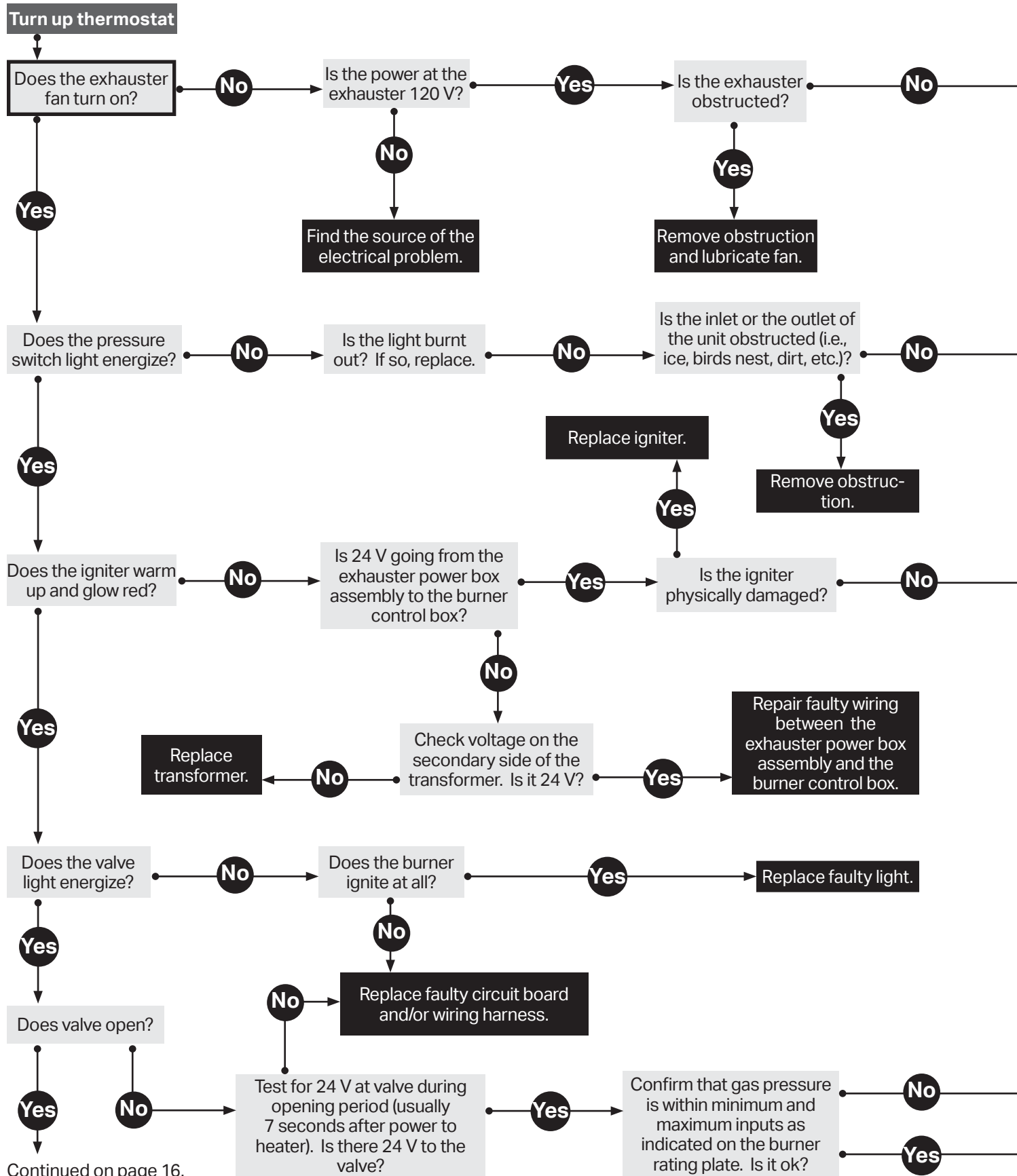
**Running Circuit:** After ignition, the flame rod monitors burner flame. If sense of flame is lost, the control closes the gas valve within one second and a new trial sequence (identical to the starting sequence) is initiated. If flame sense is not established within 15 seconds, the heater will attempt two (2) additional ignition sequences before entering lockout mode. The control can be reset by briefly interrupting the power source.

### Operational Indicator Lights

Figure 3.1 • Operational Indicator Lights

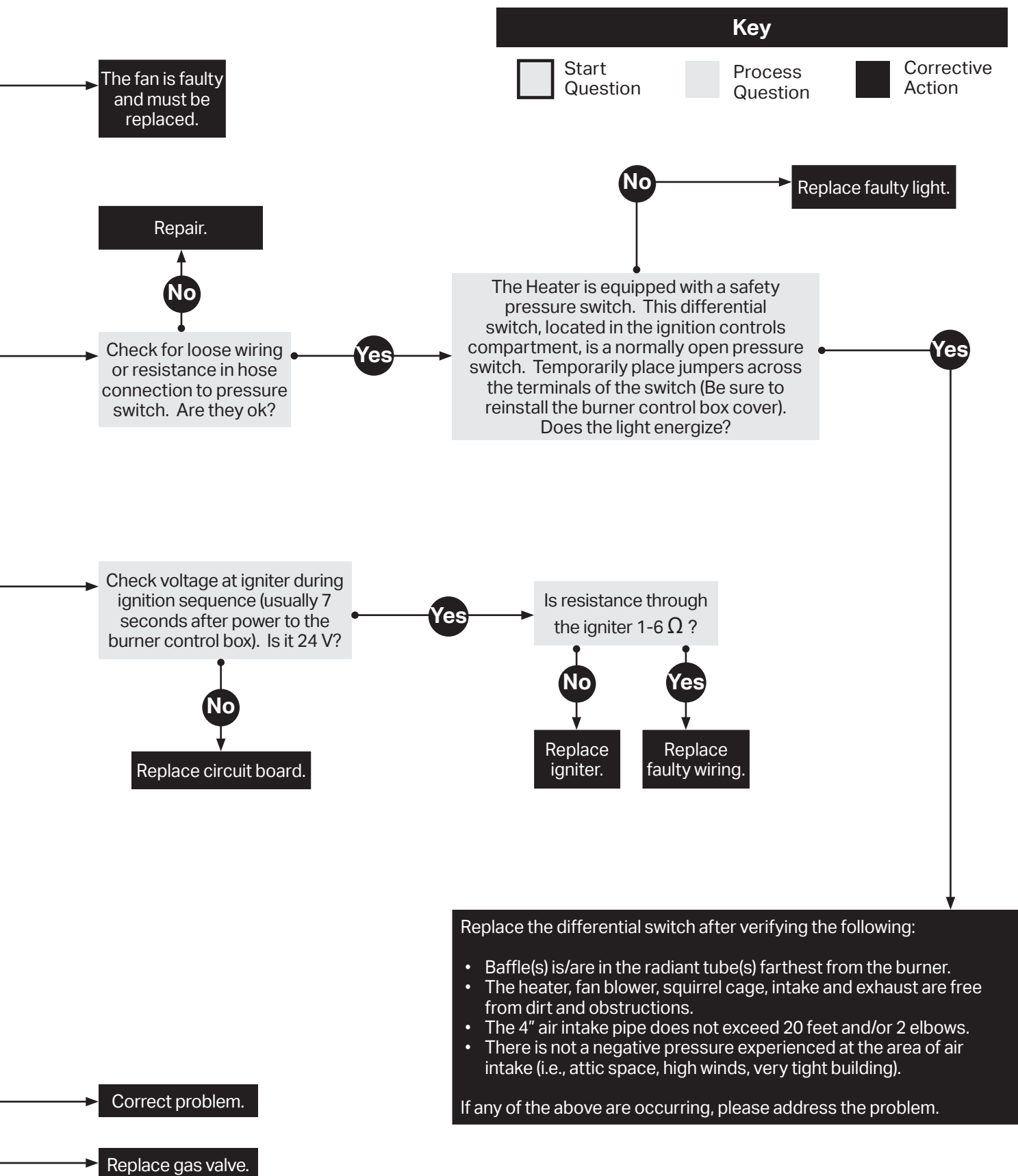


# 4.0 Troubleshooting Guide

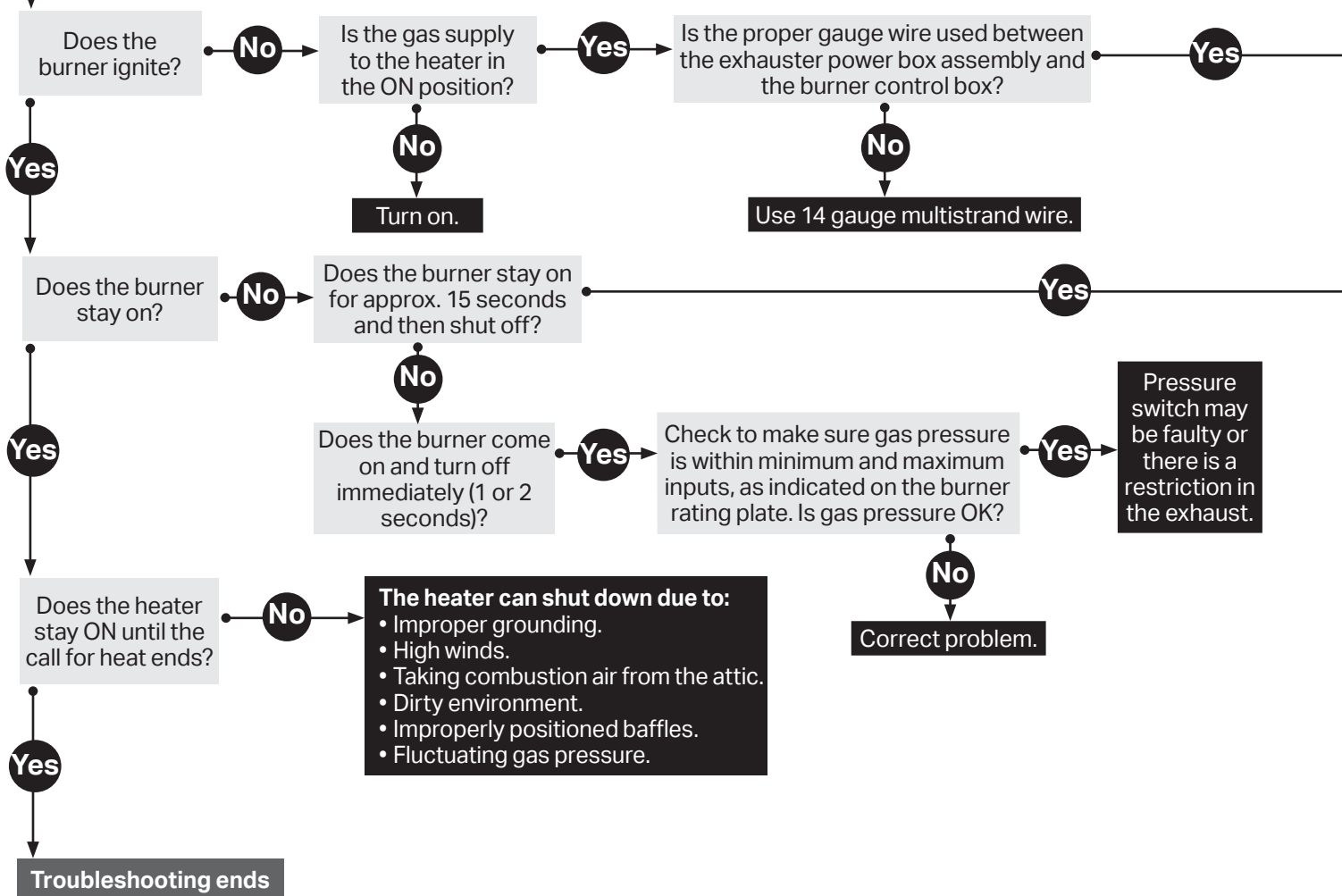


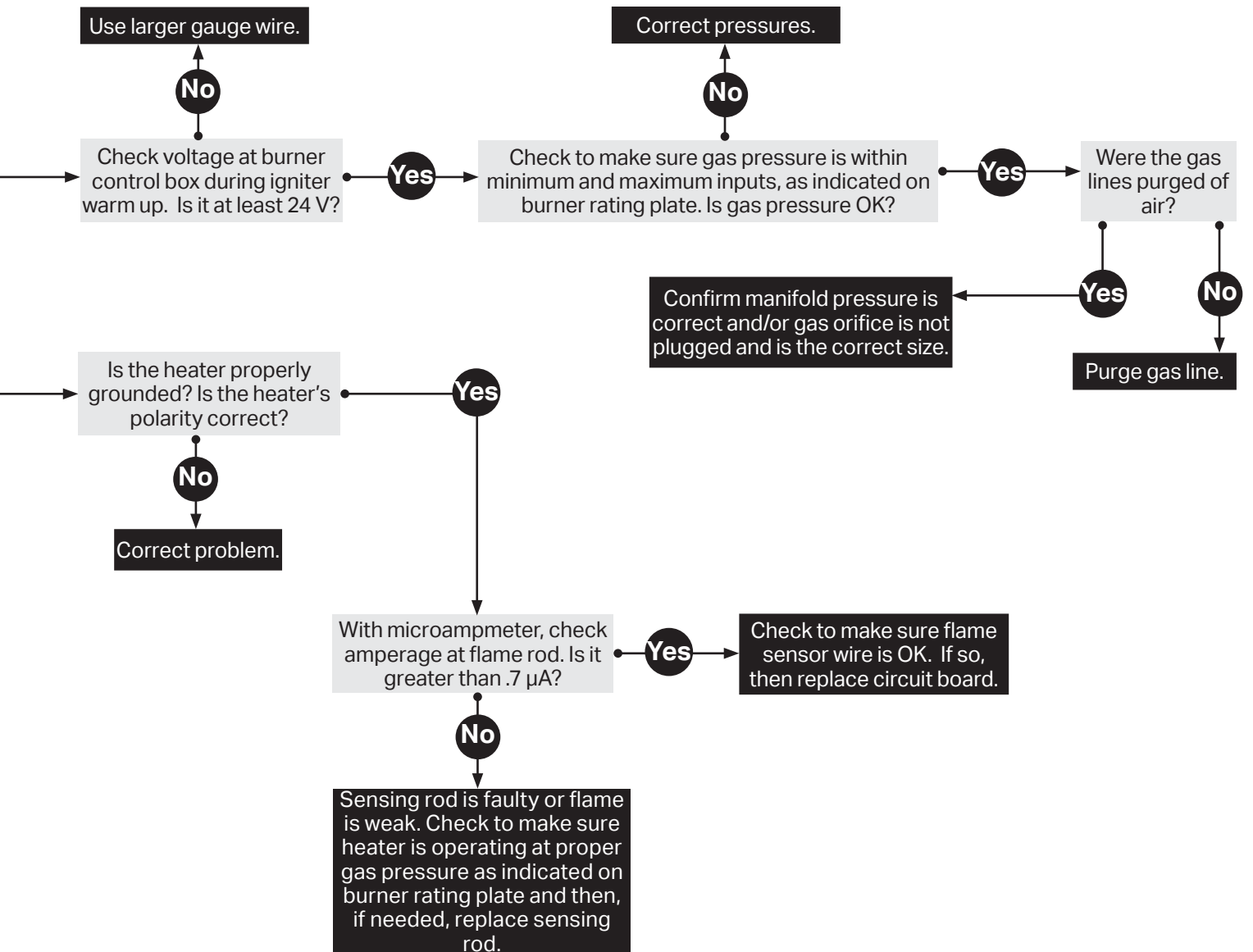
**NOTICE**

Bypassing any switch is intended for testing purposes only. Do not leave switch bypassed during normal operation or the heater's built-in safety mechanisms will be compromised.



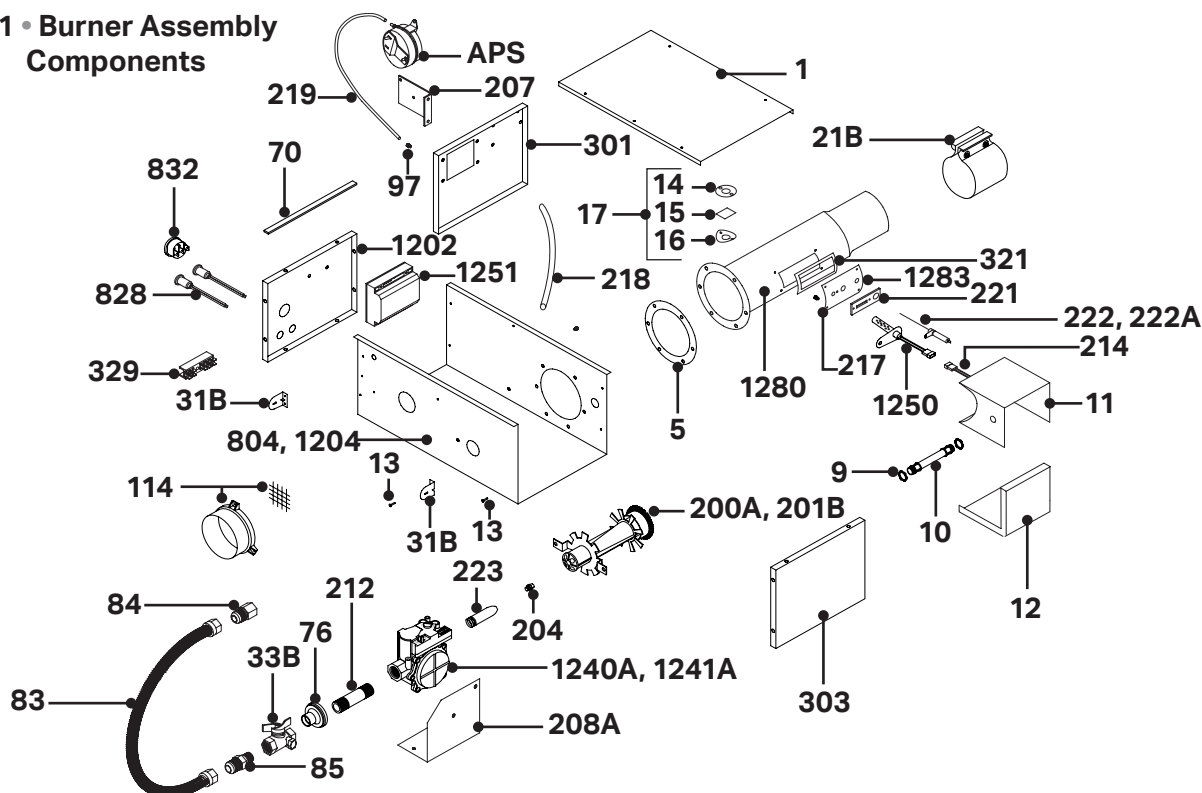
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# 5.0 Parts

**Figure 5.1 • Burner Assembly Components**



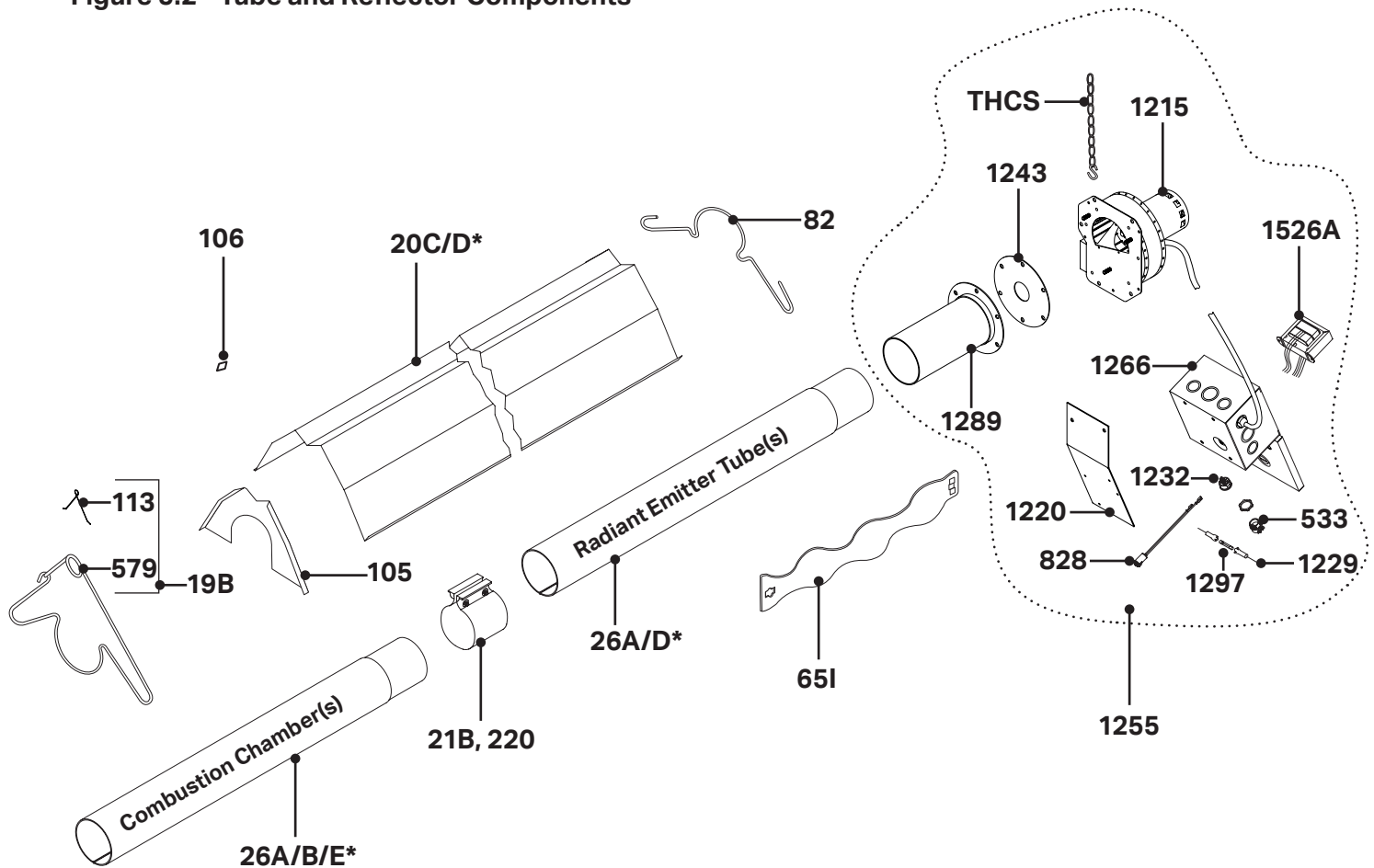
**Chart 5.1 • Parts List**

Part No.	Description	Part No.	Description
TP-1	Control Box Cover	TP-65I	36 in. Interlocking Turbulator Baffle
TP-5	Flange Gasket	TP-70	Control Box Cover Gasket (per foot**)
TP-9	Conduit Coupling	TP-76	Rubber Grommet
TP-10	Conduit 4 in. x 1/2 in.	TP-82	Reflector Center Support (RCS)
TP-11	Hot Surface Igniter Box	TP-83	24 in. Stainless Steel Flexible Gas Connector
TP-12	Hot Surface Igniter Box Cover	TP-84	1/2 in. Female / Male Flare Fitting
TP-13	8 x 1/2" Self-Drilling Screw (Qty. 2)	TP-85	1/2 in. Male / Male Flare Fitting
TP-14	Sight Glass Gasket	TP-97	1/4 in. x 1/4 in. Brass Barb Fitting (Qty. 2)
TP-15	Sight Glass	TP-105	Aluminum Reflector End Cap
TP-16	Sight Glass Washer	TP-106	Reflector End Cap Clips (Qty. 8)
TP-17	Sight Glass Kit	TP-113	Reflector Tension Spring
TP-19B	4 in. Wire Hanger with Tension Spring	TP-114	Plastic Air Orifice w/ Screen (Consult factory)
TP-20C	120 in. Aluminum Reflector	TP-200A	Low BTU Burner (Blue) - consult factory
TP-20D*	120 in. Stainless Steel Reflector	TP-201B	Mid BTU Burner (Tan) - consult factory
TP-21B	4 in. Standard Tube Clamp	TP-204	Gas Orifice (consult factory)
TP-26A	10 ft. Aluminized Radiant / Combustion Tube	TP-207	Pressure Switch Mounting Bracket
TP-26B	10 ft. Titanium Coated Combustion Tube	TP-208A	Gas Valve Mounting Bracket
TP-26D*	10 ft. 304 Stainless Steel Radiant Tube	TP-212	1/2 in. x 3 in. Pipe Nipple
TP-26E*	10 ft. 409 Stainless Steel Combustion Tube	TP-214	Glo-Bar Wiring Harness
TP-31B	Control Box Mounting Bracket (Qty. 2)	TP-217	Pressure Switch Barb Fitting
TP-33B	1/2 in. Shut-Off Ball Valve / Inlet Tap	TP-218	Differential Switch Vinyl Sensing Tube (exhaust)

\* Optional upgrade or add-on item.

\*\*6 feet total required to cover outer edges of the burner control box.

Figure 5.2 • Tube and Reflector Components

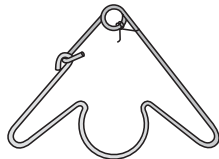

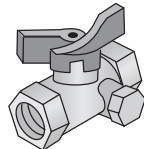


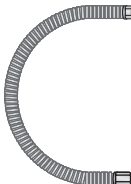
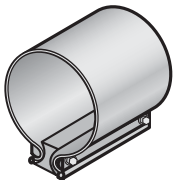

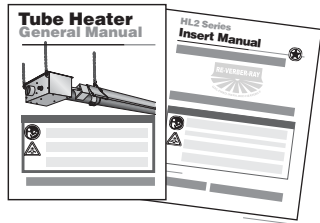



Part No.	Description	Part No.	Description
TP-219	Differential Vinyl Sensing Tube (burner)	TP-1250	24 V Mini Igniter
TP-220	Stainless Steel Tube Clamp (175 & 200 MBH)	TP-1251	Self Diagnostic Ignition Module
TP-221	Mini Igniter Gasket	TP-1255	Full Exhauster Assembly (TP-1215, TP-1266, TP-1243)
TP-222	Flame Rod	TP-1266	Power Box Assembly (individual parts below)
TP-222A	Flame Rod Wire	TP-533	120 V Conduit Connector
TP-223	Gas Manifold	TP-828	Power Box 24 V Yellow Indicator Light
TP-301	Center Panel	TP-1220	Power Box Mounting Bracket
TP-303	End Panel, Right	TP-1229	Fuse Holder
TP-321	Ignition Plate Gasket	TP-1232	Terminal Plug
TP-329	Terminal Block	TP-1289	Exhauster Mounting Tube
TP-579	4 in. Wire Hanger w/o Tension Spring	TP-1297	Fuse
TP-804	Burner Control Box Outer Shell (50-175 MBH)	TP-1526A	75 VA Transformer with Foot Mounts
TP-828	Yellow Operational Ind. Light (Qty. 2)	TP-1280	16" Burner Tube with Flange
TP-832	Thermostat Terminal Strip	TP-1283	Mini Igniter Plate
TP-1202	End Panel, Left	TP-APS	Atmospheric Pressure Switch (see below)
TP-1204	Burner Control Box Outer Shell (200 MBH)	TP-264B	Differential Pressure Switch, 50 to 75 MBH
TP-1215	Exhauster Pump	TP-264E	Differential Pressure Switch, 100 to 125 MBH
TP-1240A	24 V Gas Valve - Natural Gas Assembly	TP-1264A	Differential Pressure Switch, 150 to 175 MBH
TP-1241A	24 V Gas Valve - Propane Gas Assembly	TP-264F	Differential Pressure Switch, 200 MBH
TP-1243	Blower Restrictor Plate - Specify Model	THCS	Exhauster Assembly Security Chain

\* Optional upgrade or add-on item.

## Kit Contents Check List

**Chart 5.2 • Kit Contents for SV Series** - Reference the length column for your model.

SV Series Kit Contents								
<b>TP-19B</b> 4" Hanger with Reflector Tension Spring 	<b>TP-82</b> 4" Reflector Center Support (RCS) 	<b>TP-33B</b> 1/2" Shut-Off Ball Valve / Inlet Tap 				<b>TP-106</b> Reflector End Cap Clips 	<b>TP-25</b> 1/4" Female Spade Terminal 	
<b>TP-83</b> 24" Stainless Steel Flexible Gas Connector 	<b>TP-21B</b> 4" Tube Clamp 	<b>THCS</b> 60 in. Security Chain 				<b>F/N: LIOGTa &amp; LIOSVa</b> Tube Heater General Manual and SV Series Insert Manual 		
		<b>TP-105</b> Reflector End Cap 						
Part No.	Description	20 ft.	30 ft.	40 ft.	50 ft.	60 ft.	70 ft.	80 ft.
TP-19B	4" Hanger w/ Tension Spring	3	4	5	6	7	8	9
TP-21B	4" Tube Clamp	3	4	5	6*	7*	8*	9*
TP-25	1/4" Female Spade Terminal	4	4	4	4	4	4	4
TP-33B	1/2" Shut-Off Valve & Inlet Tap	1	1	1	1	1	1	1
TP-82	4" Reflector Center Support	2	3	4	5	6	7	8
TP-83	24" S.S. Flexible Gas Connector	1	1	1	1	1	1	1
TP-105	Reflector End Cap	2	2	2	2	2	2	2
TP-106	Reflector End Cap Clips	8	8	8	8	8	8	8
THCS	60 in. Security Chain	1	1	1	1	1	1	1
LIOGTa	General Tube Heater Manual	1	1	1	1	1	1	1
LIOSVa	SV Series Insert Manual	1	1	1	1	1	1	1
Filled By:								

\* One 4" stainless steel tube clamp (P/N: TP-220) is provided for each 175,000 - 200,000 BTU model. Place as shown on page 11.

## Approvals

- CSA
- Indoor approval
- Commercial approval

## Limited Warranty

- 3 years - Burner box components
- 5 years - Combustion and radiant tubes
- 10 years - Stainless steel burner
- See page 40 of the General Tube Heater Manual for terms and conditions.



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