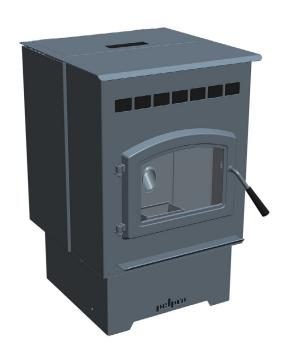


# SERVICE MANUAL PP60 / PP60-B / PP70 / PP130 / PP130-B







#### PELPRO TROUBLESHOOTING MANUAL

#### INTRODUCTION

The purpose of this troubleshooting guide is to provide step by step procedures for diagnosing issues with the PelPRO PP60, PP60-B, PP70, PP130, PP130-B. A digital or analog multimeter will be required for many of the troubleshooting steps in this guide.

When troubleshooting with the multimeter, it's important to disconnect the appliance from wall power while locating the electrical connections that need to be checked. Connect the multimeter to the test locations detailed in this guide and then plug the appliance back into wall power. Take care to avoid letting any exposed wires or connectors from contacting the metal chassis of the appliance or from touching exposed skin. The appliance is energized with 115VAC power from the wall and there is a risk of shock or electrocution. If you are not familiar or comfortable working with energized electrical circuits, please contact a certified NFI Installer or certified electrician to complete that portion of troubleshooting.

When instructed to check a appliance for power from the control board, the multimeter will need to be set to check Voltage, often displayed as "V" on the meter. If the meter is not auto-sensing, AC voltage will need to be chosen when specified in the instructions. AC voltage is also sometimes shown as ~ V on multimeters. If instructed to check VDC, DC voltage will have to be chosen on the multimeter. Voltage checks are typically used when motors and blowers are not running and we are attempting to determine if the component is bad or is the control board is not sending power to the component.

Some components can be verified for functionality by checking the resistance of the part. Igniters and fuses are the most common parts that can be verified by resistance checking with a multimeter. Resistance is measured in ohms  $(\Omega)$  and most multimeters will have that symbol next to the resistance setting. Unlike voltage, resistance is always measured with the appliance completely deenergized from wall power. There is no risk of shock or electrocution when the appliance is unplugged from wall power and components are being verified for resistance. When resistance is being checked, this manual will provide an expected resistance in  $\Omega$ , however a number slightly above or below the specified value does not indicate a bad component. If the multimeter shows MAX or Out of Range, this indicates infinite resistance, meaning an open circuit and a bad component. A resistance of 0 ohms for a component indicates an electric short circuit and again a bad component.

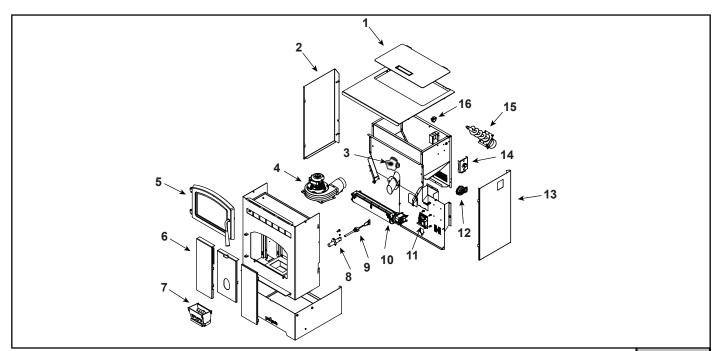


#### **Service Parts**

Pellet Stove

PP60

Beginning Manufacturing Date: July 2013 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

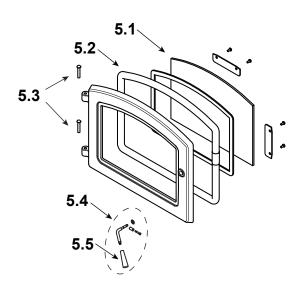
847	
-	Stocked
<b>,</b>	at Depot

your app	your appliance please provide model number and serial number.			at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Hopper Lid Assembly		SRV7083-019	
	Handle, Hopper Lid		SRV200-0110	
2	Side Curtain, Left Hand		SRV7083-154	Y
3	Snap disc, Manual Reset		SRV230-0080	Y
4	Exhaust Combustion Blower		812-4400	Y
	Gasket, Between Blower Housing and Stove		SRV240-0812	Y
	Gasket, Between Blower Housing and Motor		812-4710	Y
5	Door Assembly		SRV7086-021	Y
6	Baffle Kit		SRV7079-006	
7	Firepot		SRV7077-003	Y
8	Igniter Chamber Kit		SRV7077-110	
9	Igniter Kit		SRV7000-660	Y
10	Convection Blower		SRV7000-659	Y
11	Control Board		SRV7079-050	Y
12	Vacuum Switch		SRV7000-531	Y
	Vacuum Hose, 5/32 ID	3 Ft	SRV240-0450	Y
13	Side Curtain, Right Hand		SRV7083-153	Y
14	Dial Control		SRV7083-036	Y
	Wire Harness, Dial Control		SRV7000-667	Y
15	Feed Assembly Kit		SRV7077-014	Υ
16	Hopper Switch		SRV7000-612	Y



**Beginning Manufacturing Date: July 2013 Ending Manufacturing Date: Active** 

# **#5 Door Assembly**



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

**DESCRIPTION** 

	at Depot	
COMMENTS	PART NUMBER	
	SRV7086-021	Υ
	SRV7081-173	Υ
	832-1680	Υ
kg of 2	433-1590/2	Y
	SRV7093-024	Y
	KS-5140-1442	Υ

# **#15 Feeder Assembly**

Hinge Pins

Door Assembly

Glass Assemlby

Rope, Door, 3/4" x 84"

Threaded Handle Assembly Kit

Handle Black Phenolic Kit

**ITEM** 5

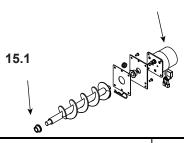
5.1

5.2

5.3

5.4

5.5



Pkg of 2

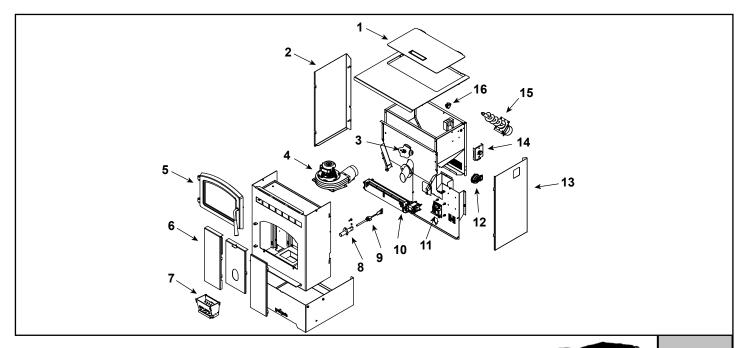
15.2

15	Feed Assembly Kit		SRV7077-014	Y
15.1	Feed Shaft Bushing	Pkg of 2	7000-600/2	Υ
15.2	Feed Motor		SRV7000-670	Υ
	Bearing Assembly		SRV7000-820	
	Ambient Probe		SRV7000-668	Υ
	Exhaust Probe		SRV7000-669	Υ
	Wire Harness		SRV7093-184	Υ
	Wire Clip	Pkg of 10	7000-400/10	Υ
	Power Cord		812-1180	Υ



**Pellet Stove** 

Beginning Manufacturing Date: April 2019 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

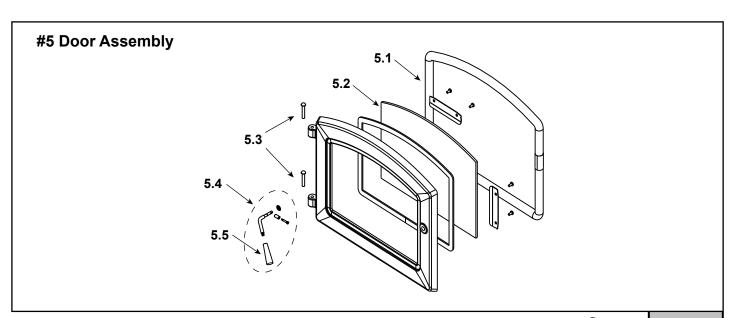
your appliance please provide model number and serial number.			1	at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at 20pot
1	Hopper Lid Assembly		SRV7083-019	
	Handle, Hopper Lid		SRV200-0110	
2	Side Curtain, Left Hand		SRV7083-154	Y
3	Snap disc, Manual Reset		SRV230-0080	Y
4	Exhaust Combustion Blower		812-4400	Υ
	Gasket, Between Blower Housing and Stove		SRV240-0812	Υ
	Gasket, Between Blower Housing and Motor		812-4710	Υ
5	Door Assembly		See Following Page	Υ
6	Baffle Kit		SRV7079-006	
7	Firepot		SRV7077-003	Υ
8	Igniter Chamber Kit		SRV7077-110	
9	Igniter Kit		SRV7000-660	Υ
10	Convection Blower		SRV7000-659	Υ
11	Control Board		SRV7079-050	Υ
12	Vacuum Switch		SRV7000-531	Υ
	Vacuum Hose, 5/32 ID	3 Ft	SRV240-0450	Υ
	Hose, Barb Assembly		SRV229-0920	
13	Side Curtain, Right Hand		SRV7083-153	Y
14	Dial Control		SRV7083-036	Υ
	Wire Harness, Dial Control		SRV7000-667	Y
15	Feed Assembly Kit		See Following Page	Y
16	Hopper Switch		SRV7000-612	Υ

See Following page for additional servcie parts

5



**Beginning Manufacturing Date: April 2019 Ending Manufacturing Date: Active** 

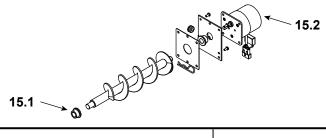


IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

	Stocked at Depot
PART NUMBER	
SRV7086-021	Υ
832-1680	Υ

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at Dopot
5	Door Assembly		SRV7086-021	Υ
5.1	Rope, Door, 3/4" x 84"		832-1680	Υ
5.2	Glass Assemlby		SRV7081-173	Υ
5.3	Hinge Pins	Pkg of 2	433-1590/2	Υ
5.4	Threaded Handle Assembly Kit		SRV7093-024D	Υ
	Shoulder Bolt, 1/4 x 1	No longer available	SRV7000-944	
5.5	Handle Black Phenolic Kit		KS-5140-1442	Y



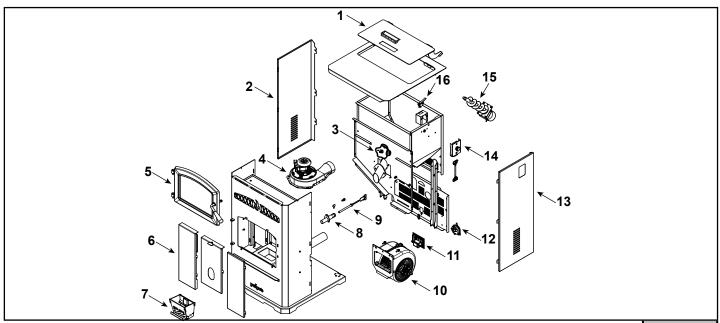


15	Feed Assembly Kit		SRV7077-014	Υ
15.1	Feed Shaft Bushing	Pkg of 2	7000-600/2	Υ
15.2	Feed Motor		SRV7000-670	Υ
	Bearing Assembly		SRV7000-820	
	Ambient Probe		SRV7000-668	Υ
	Exhaust Probe		SRV7000-669	Y
	Wire Harness		SRV7093-184	Υ
	Wire Clip	Pkg of 10	7000-400/10	Υ
	Component Pack		SRV7083-062	
	Power Cord		812-1180	Υ



**Pellet Stove** 

Beginning Manufacturing Date: Sept 2018 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

our app	ur appliance please provide model number and serial number.			_ at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Hopper Lid Assembly		SRV7103-019	
	Handle, Hopper Lid		SRV200-0110	
2	Side Curtain, Left Hand		SRV7103-154	Y
3	Snap disc, Manual Reset		SRV230-0080	Y
4	Exhaust Combustion Blower		812-4400	Y
	Gasket, Between Blower Housing and Stove		SRV240-0812	Y
	Gasket, Between Blower Housing and Motor		812-4710	Y
5	Door Assembly		SRV7086-021	Υ
6	Baffle Kit		SRV7079-006	
7	Firepot		SRV7077-003	Υ
8	Igniter Chamber Kit		SRV7077-110	
9	Igniter Kit		SRV7000-660	Υ
10	Convection Blower		KS-5020-1052	Υ
	Convection Blower Gasket		SRV7081-195	
11	Control Board		SRV7103-050	Υ
12	Vacuum Switch		SRV7000-531	Υ
	Vacuum Hose, 5/32 ID	3 Ft	SRV240-0450	Υ
	Hose, Barb Assembly		SRV229-0920	
13	Side Curtain, Right Hand		SRV7103-153	Y
14	Dial Control		SRV7083-036	Y
	Wire Harness, Dial Control		SRV7000-667	Y
15	Feed Assembly Kit		SRV7077-014	Y
16	Hopper Switch		SRV7000-612	Υ

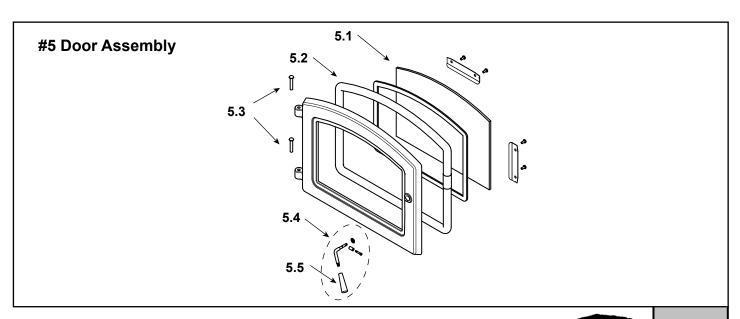
See Following page for additional servcie parts

Stocked

Stocked



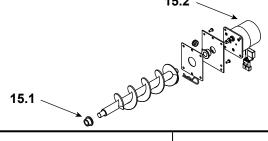
Beginning Manufacturing Date: Sept 2018 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

your appliance please provide model number and serial number.				at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
5	Door Assembly		SRV7086-021	Υ
5.1	Glass Assemlby		SRV7081-173	Υ
5.2	Rope, Door, 3/4" x 84"		832-1680	Υ
5.3	Hinge Pins	Pkg of 2	433-1590/2	Y
5.4	Threaded Handle Assembly Kit		SRV7093-024D	Y
	Shoulder Bolt, 1/4 x 1	No longer available	SRV7000-944	
5.5	Handle Black Phenolic Kit		KS-5140-1442	Υ





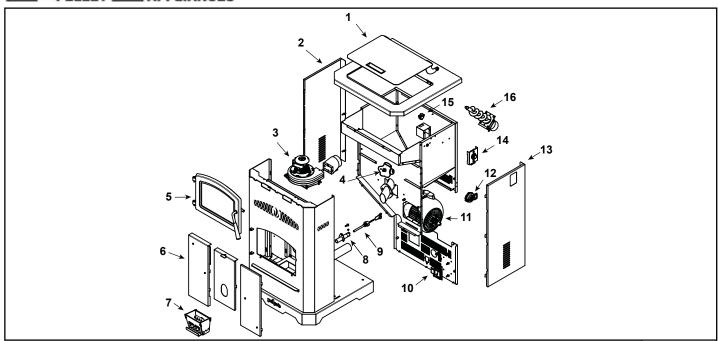
15	Feed Assembly Kit		SRV7077-014	Y
15.1	Feed Shaft Bushing	Pkg of 2	7000-600/2	Υ
15.2	Feed Motor		SRV7000-670	Υ
	Bearing Assembly		SRV7000-820	
	Ambient Probe		SRV7000-668	Υ
	Component Pack		SRV7103-028	
	Exhaust Probe		SRV7000-669	Υ
	Wire Harness		SRV7093-184	Υ
	Wire Clip	Pkg of 10	7000-400/10	Υ
	Power Cord		812-1180	Υ



**Pellet Stove** 

Beginning Manufacturing Date: Apr 2014 **Ending Manufacturing Date: Active** 

**PP130** 



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual must

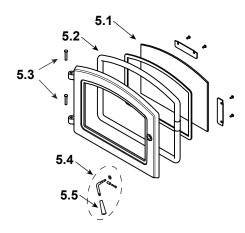
your appliance please provide model number and serial number. All parts listed in this manual must be ordered from a dealer.				Stocked at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Hopper Lid Assembly		SRV7086-019	
	Hopper Extension		PPHE200	
	Handle, Hopper Lid		SRV200-0110	
2	Side Curtain, Left Hand		SRV7086-154	
3	Exhaust Combustion Blower		812-4400	Y
	Gasket, Between Blower Housing and Stove		SRV240-0812	Y
	Gasket, Between Blower Housing and Motor		812-4710	Y
4	Snap disc, Manual Reset		SRV230-0080	Υ
5	Door Assembly		SRV7086-021	Y
6	Baffle Kit		SRV7077-006	
7	Firepot		SRV7077-003	Y
8	Igniter Chamber Kit		SRV7077-110	
9	Igniter Kit		SRV7000-660	Y
10	Control Board		SRV7077-050	Y
11	Convection Blower		KS-5020-1052	Y
	Convection Blower Bracket		SRV7081-210	
12	Vacuum Switch		SRV7000-531	Y
	Vacuum Hose, 5/32 ID	3 Ft	SRV240-0450	Y
13	Side Curtain, Right Hand		SRV7086-153	Y
14	Dial Control		SRV7083-036	Y
	Wire Harness, Dial Control		SRV7000-667	Y
15	Hopper Switch		SRV7000-612	Y

See Following page for additional servcie parts



Beginning Manufacturing Date: Apr 2014 Ending Manufacturing Date: Active

# **#5 Door Assembly**



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual must be ordered from a dealer.

**DESCRIPTION** 

a in tine manaai maet		at Depot
COMMENTS	PART NUMBER	
	SRV7086-021	Y
	SRV7081-173	
	832-1680	
Pkg of 2	433-1590/2	
	SRV7093-024	Y

KS-5140-1442

Υ

**#16 Feed Assembly Kit** 

Hinge Pins

Door Assembly

Glass Assembly

Rope, Door, 3/4" x 84"

Threaded Handle Assembly Kit

Handle Black Phenolic Kit

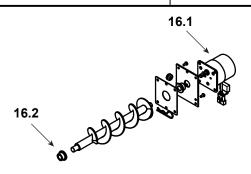
**ITEM** 

5 5.1

5.2 5.3

5.4

5.5

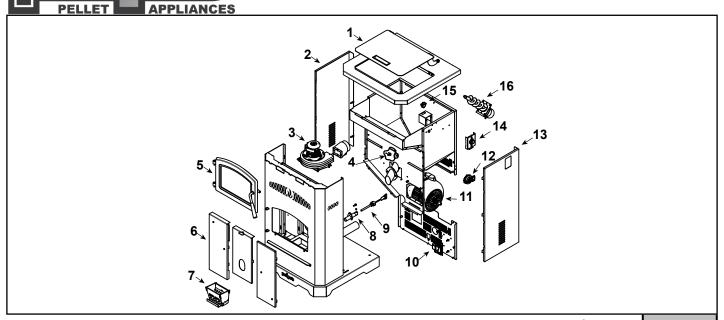


16	Feed Assembly Kit		SRV7077-014	Y
16.1	Feed Motor		SRV7000-670	Y
16.2	Feed Shaft Bushing	Pkg of 2	7000-600/2	Υ
	Power Cord		812-1180	Υ
	Ambient Probe		SRV7000-668	Υ
	Exhaust Probe		SRV7000-669	Υ
	Wire Harness		SRV7093-184	Υ
	Wire Clip	Pkg of 10	7000-400/10	Υ

Stocked



Beginning Manufacturing Date: Sept 2018 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual must be ordered from a dealer.

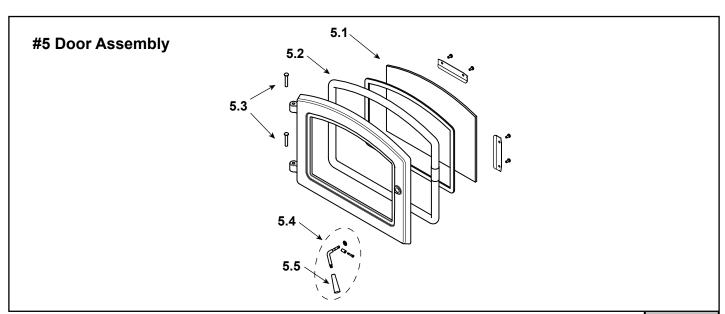
be ordered from a dealer.				
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at Depot
1	Hopper Lid Assembly		SRV7086-019	
	Hopper Extension		PPHE200	
	Handle, Hopper Lid		SRV200-0110	
2	Side Curtain, Left Hand		SRV7086-154	
3	Exhaust Combustion Blower		812-4400	Υ
	Gasket, Between Blower Housing and Stove		SRV240-0812	Υ
	Gasket, Between Blower Housing and Motor		812-4710	Υ
4	Snap disc, Manual Reset		SRV230-0080	Υ
5	Door Assembly		SRV7086-021	Υ
6	Baffle Kit		SRV7077-006	
7	Firepot		SRV7077-003	Υ
8	Igniter Chamber Kit		SRV7077-110	
9	Igniter Kit		SRV7000-660	Υ
10	Control Board		SRV7104-050	Υ
11	Convection Blower		KS-5020-1052	Υ
	Convection Blower Gasket		SRV7081-195	
	Convection Blower Bracket		SRV7081-210	
12	Vacuum Switch		SRV7000-531	Υ
	Vacuum Hose, 5/32 ID	3 Ft	SRV240-0450	Υ
	Hose, Barb Assembly		SRV229-0920	
13	Side Curtain, Right Hand		SRV7086-153	Υ
14	Dial Control		SRV7083-036	Υ
	Wire Harness, Dial Control		SRV7000-667	Υ
15	Hopper Switch		SRV7000-612	Υ

See Following page for additional servcie parts

Stocked



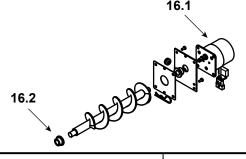
Beginning Manufacturing Date: Sept 2018 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual must be ordered from a dealer

be ordered from a dealer.					
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at Depot	
5	Door Assembly		SRV7086-021	Y	
5.1	Glass Assembly		SRV7081-173		
5.2	Rope, Door, 3/4" x 84"		832-1680		
5.3	Hinge Pins	Pkg of 2	433-1590/2		
5.4	Threaded Handle Assembly Kit		SRV7093-024D	Y	
·	Shoulder Bolt, 1/4 x 1	No longer available	SRV7000-944		
5.5	Handle Black Phenolic Kit		KS-5140-1442	Υ	

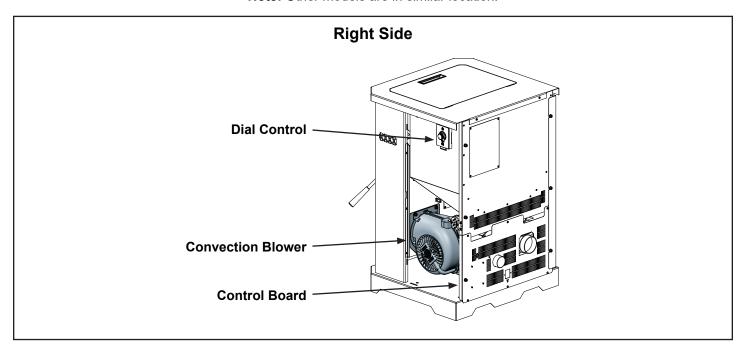
# **#16 Feed Assembly Kit**

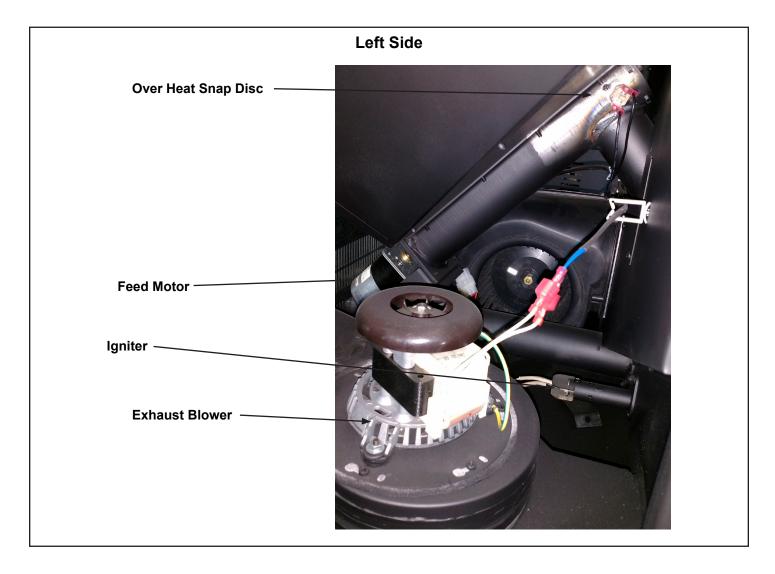


16	Feed Assembly Kit		SRV7077-014	Y
16.1	Feed Motor		SRV7000-670	Y
16.2	Feed Shaft Bushing	Pkg of 2	7000-600/2	Υ
	Power Cord		812-1180	Υ
	Ambient Probe		SRV7000-668	Υ
	Component Pack		SRV7104-028	
	Exhaust Probe		SRV7000-669	Υ
	Wire Harness		SRV7093-184	Υ
	Wire Clip	Pkg of 10	7000-400/10	Υ

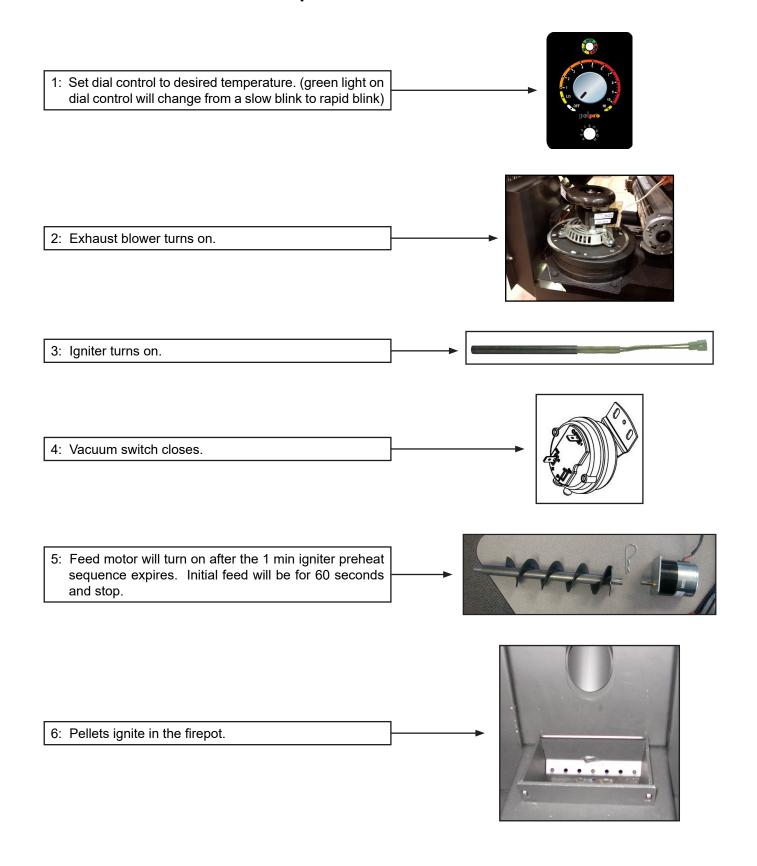
# **PART LOCATIONS**

**Note:** Other models are in similar location.





# **Operation Flow Chart**



# **Operation Flow Chart**

7: Exhaust probe senses a 6 degree increase per minute for 2 consecutive minutes.



8: Igniter turns off.



9: Flame stabilization mode begins. Appliance will feed at .8 second "on time" for 3 minutes.

10: Convection blower turns on and increases speed as the appliance heats up.



The exhaust probe will sense 140 degrees and turn on the convection blower at a low speed.

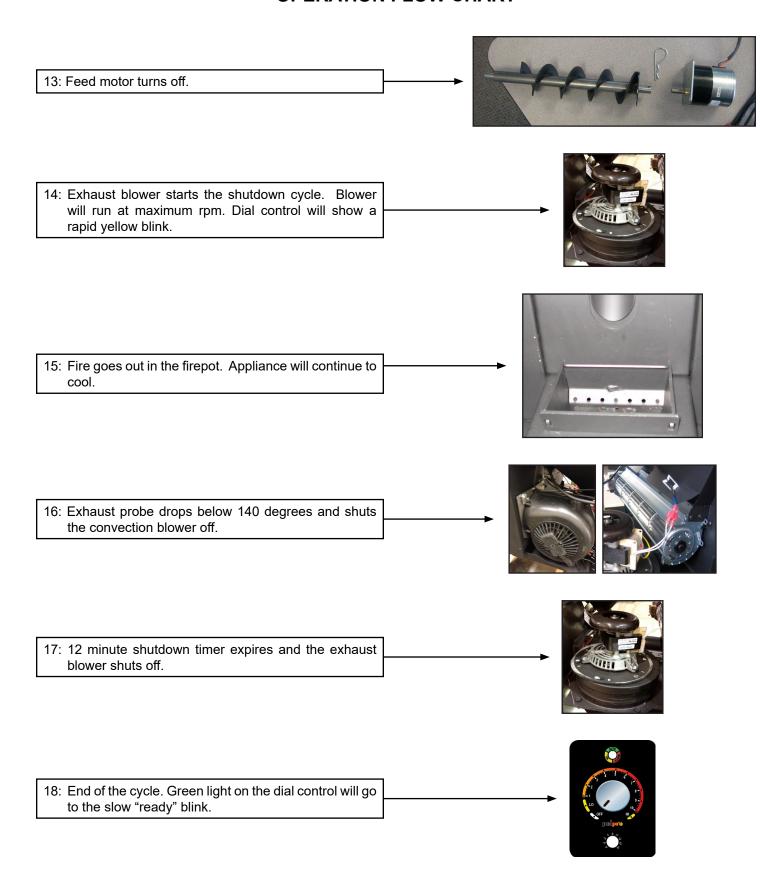
11: Green blink on the dial control will change its blinks to show the current power level. Power level will vary depending on room temp vs set temp on the dial.

	These times are at trim 0: (7 Second Cycle)					
	PP60/PP60-B	PP130	PP70	PP130-B		
Power Level 1:	0.9 sec "on time"	0.9 sec "on time"	0.8 sec "on time"	1.0 sec "on time"		
Power Level 2:	1.3 sec "on time"	1.5 sec "on time"	1.1 sec "on time"	1.2 sec "on time"		
Power Level 3:	1.6 sec "on time"	2.0 sec "on time"	1.4 sec "on time"	1.6 sec "on time"		
Power Level 4:	2.0 sec "on time"	2.5 sec "on time"	1.7 sec "on time"	2.1 sec "on time"		
Power Level 5:	2.4 sec "on time"	3.1 sec "on time"	2.0 sec "on time"	2.6 sec "on time"		

12: Set temperature is met.



# **OPERATION FLOW CHART**





# **ERROR CODE DEFINITIONS**



Alarm code will be displayed on the dial control as a series of red blinks.



1 Red Blink	Empty Hopper Alarm. Most likely the appliance ran out of fuel or the flames are adjusted too low.
2 Red Blinks	Exhaust Probe Failure. A bad connection on the probe or a broken wire.
3 Red Blinks	Ambient Probe Failure. A bad connection on the probe or a broken wire.
4 Red Blinks	Missed ignition. Appliance failed to light the fuel or read a rise in temperature.
8 Red Blinks	Exhaust temperature over heat alarm. Appliance got too hot. Check the heat exchanger and exhaust system for obstructions.

## **Troubleshooting**

# **ALARM CODE** T/S CHART **SYMPTOM**



### **WARNING**



REFER TO THE OWNERS MANUAL FOR INFORMATION ON MAKING ADJUSTMENTS TO THE Appliance OR FOR THE PROCEDURES FOR REPLACING PARTS.

# PP70 & PP130-B APPLIANCES CONVECTION BLOWER TROUBLESHOOTING

CONVECTION BLOWER NOT COMING ON

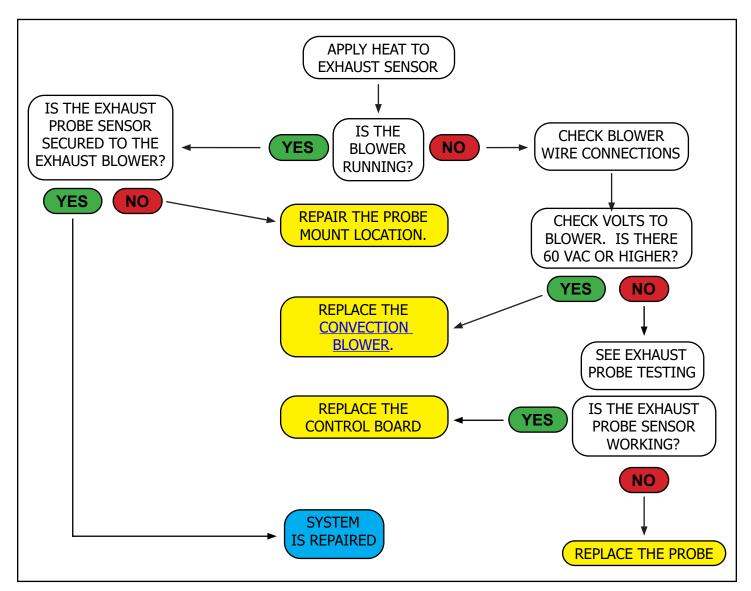


## **WARNING**



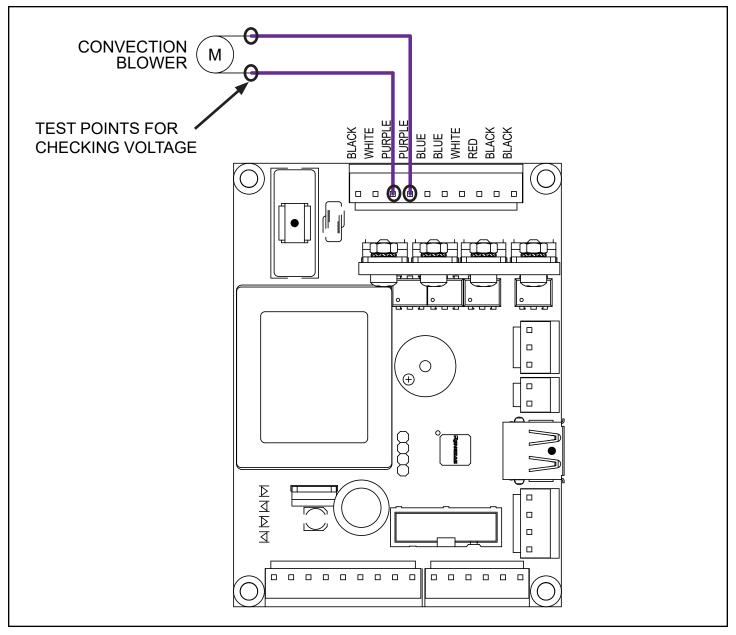
### **Exposed Skin, Electric Shock Hazard**

Unit must be connected to power for some troubleshooting steps. **DO NOT** allow energized connections to touch appliance body.



Testing Locations & Readings on next page.

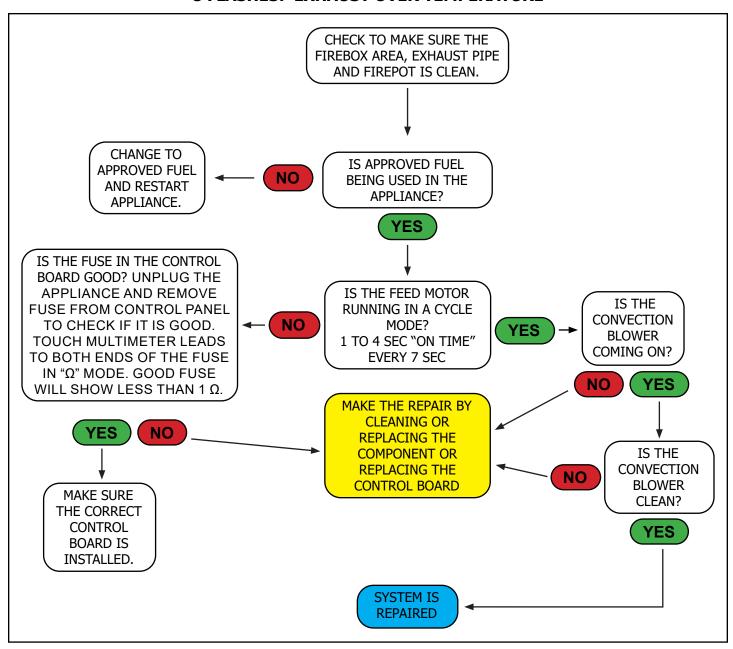
#### **CONVECTION BLOWER TROUBLESHOOTING**



CONVECTION BLOWER VOLTS RANGE: 62VAC TO 115VAC (+/- 5VAC)

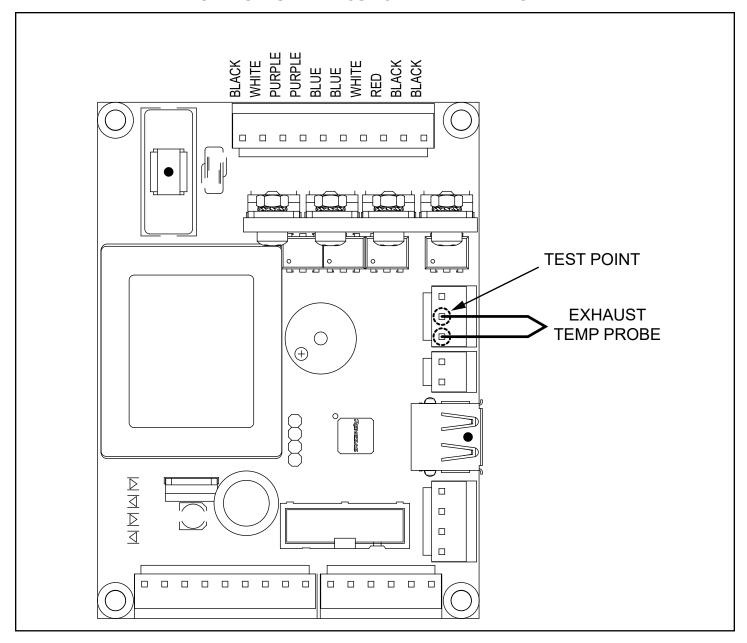
Convection blower range changes depending on power level.

#### **8 FLASHES: EXHAUST OVER TEMPERATURE**



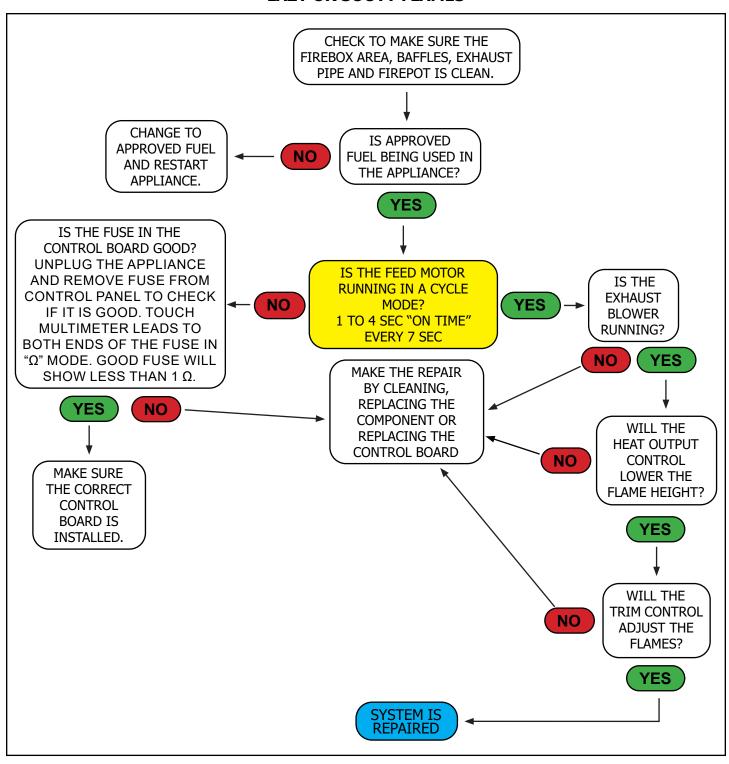
Testing Locations & Readings on next page.

#### **8 FLASHES: EXHAUST OVER TEMPERATURE**



AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

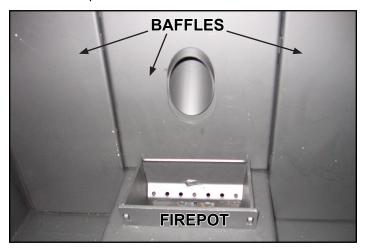
#### **LAZY OR SOOTY FLAMES**



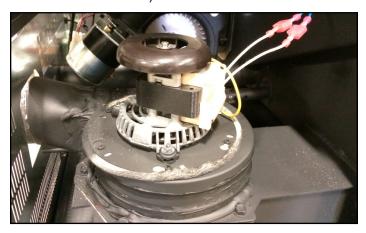
Cleaning locations on next page.

# **LAZY OR SOOTY FLAMES**

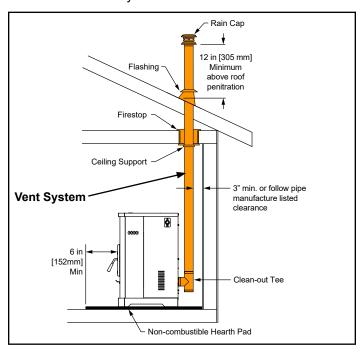
#### 1. Clean Firepot and Baffles



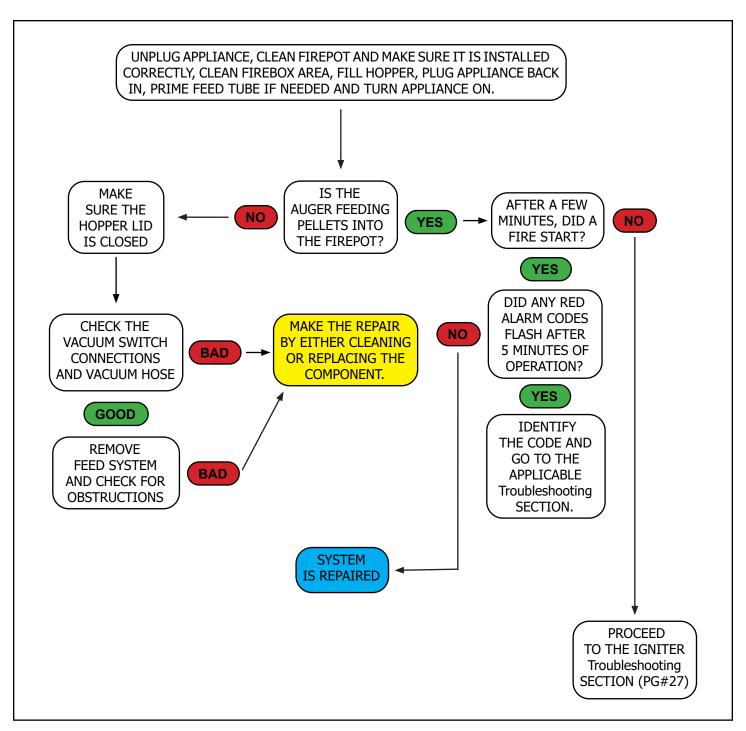
3. Clean the Exhaust Blower. (Refer to Owner's manual for more instructions)



### 2. Clean the Vent System



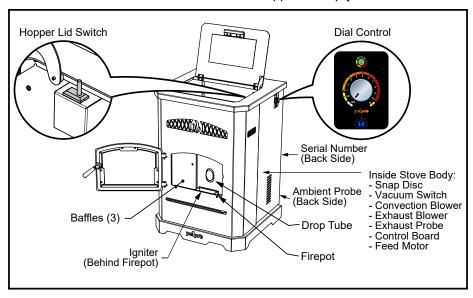
#### 1 FLASH: EMPTY HOPPER



Check Locations on next page.

#### 1 FLASH: EMPTY HOPPER

1. Check to see if the Hopper is empty



2. Check for a Feed Motor jam

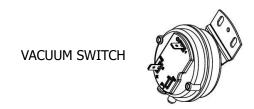


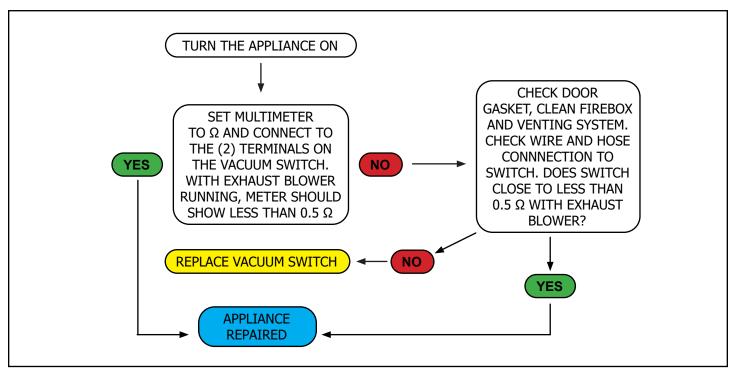
3. Check flame height adjustment.



#### FIREBOX VACUUM & VACUUM SWITCH TROUBLESHOOTING

FIREBOX VACUUM LOW OR VACUUM SWITCH NOT WORKING.





Test Locations and Readings on next page.

VACUUM SPECS WITH DIAL CONTROL ON "0" TRIM			
COLD APPLIANCE, PELLETS IN HOPPER, BLOWER AT MAX:	.19 TO .30 inches of WC		
POWER LEVEL 1:	.11 TO .26 inches of WC		
POWER LEVEL 2:	.11 TO .25 inches of WC		
POWER LEVEL 3:	.12 TO .25 inches of WC		
POWER LEVEL 4:	.13 TO .23 inches of WC		
POWER LEVEL 5:	.15 TO .22 inches of WC		
SHUTDOWN:	.17 TO .25 inches of WC		

#### FIREBOX VACUUM & VACUUM SWITCH TROUBLESHOOTING

- 1. Install a vacuum "TEE" between the vacuum switch and drop tube.
- 2. Install the vacuum gauge to the "TEE".
- 3. Turn thermostat on or dial control. \*\*\*NOTE: make sure fuel is in the hopper as this can effect the vacuum reading. It takes a minimum of .04 inches of water column to close the vacuum switch.\*\*\*\*
- 4. Your vacuum gauge should be reading between .19 to .30 inches of water column while the exhaust blower is running on HIGH. (on a cold appliance & NO Fire).

ALL VACUUM READINGS ARE MEASURED IN INCHES OF WATER COLUMN. LONG VERTICAL VENT RUNS WILL PRODUCE **GREATER VACUUM** COMPARED TO HORIZONTAL RUNS.

#### **NOTE:**

Low vacuum can be the result of a leaking door gasket, firepot not closing all of the way, dirty heat exchanger, or plugged vent system.

Always make sure the appliance is clean before making any repairs.

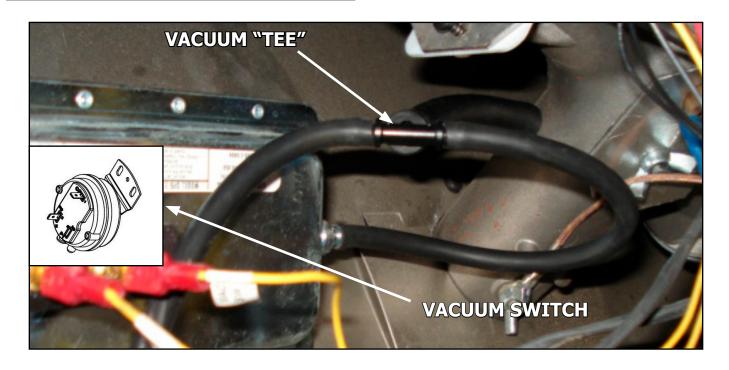


(VACUUM GAUGE)

RED = LOW VACUUM

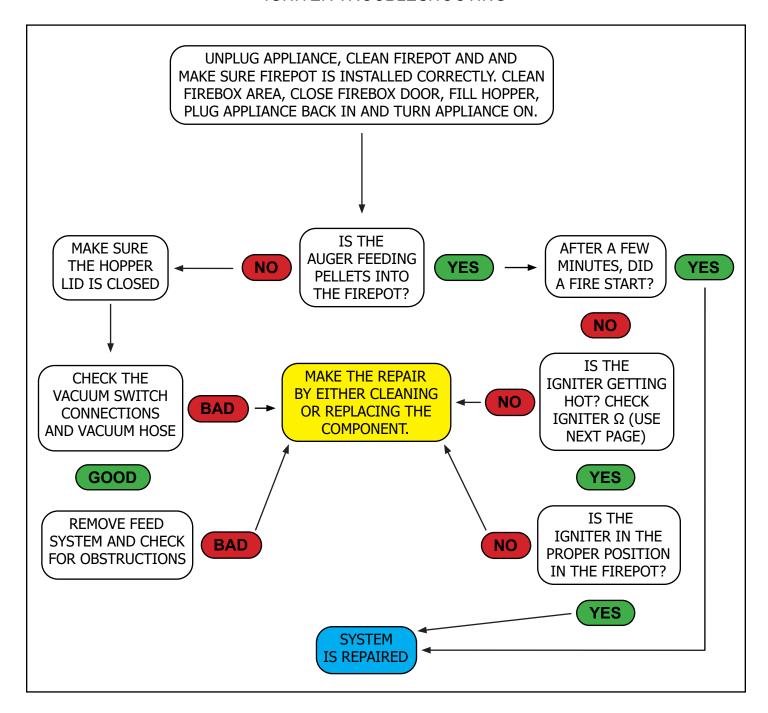
GREEN = OPERATING RANGE

BLUE = SHUTDOWN



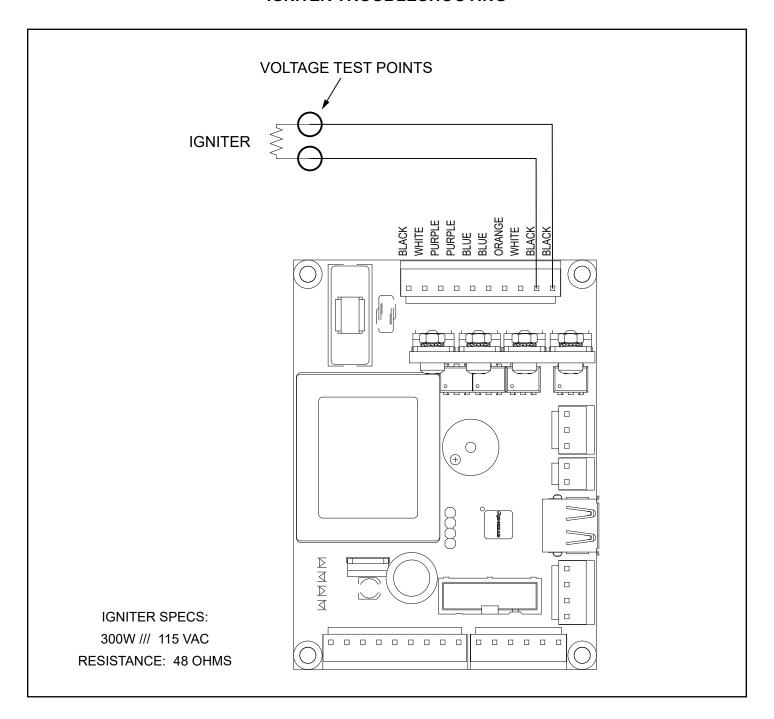
#### **4 FLASHES: MISSED IGNITION**

IGNITER TROUBLESHOOTING

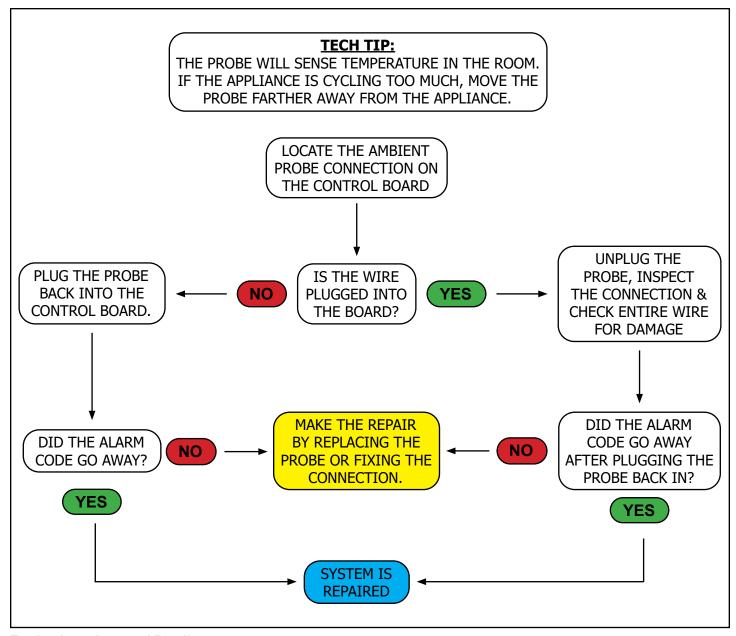


Testing Locations & Readings on next page.

# 4 FLASHES: MISSED IGNITION IGNITER TROUBLESHOOTING



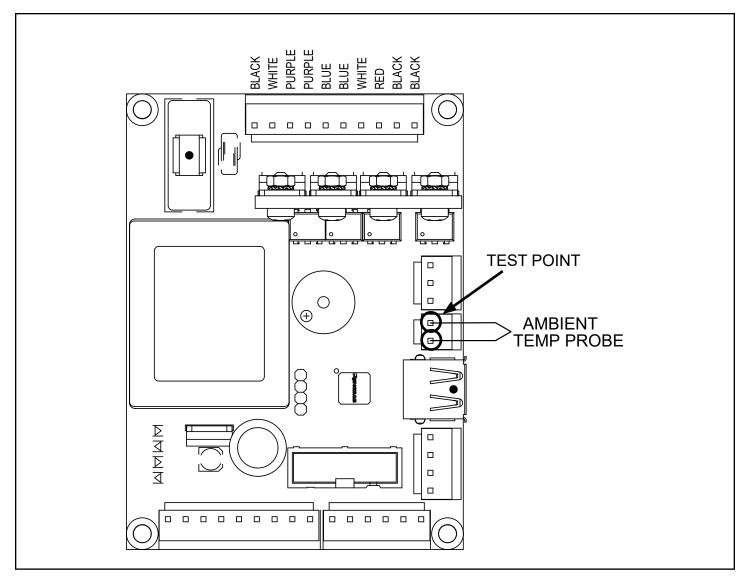
#### 3 FLASHES: AMBIENT PROBE ALARM



Testing Locations and Readings on next page.

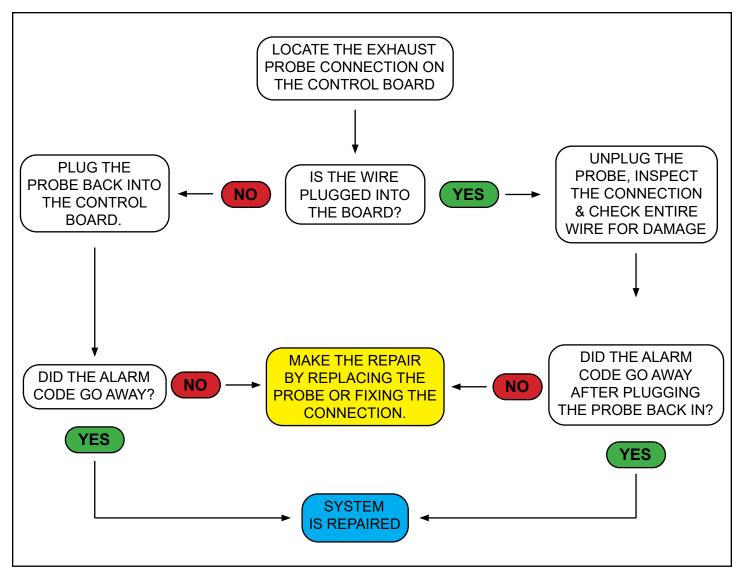
#### 3 FLASHES: AMBIENT PROBE ALARM

#### APPLIANCE IS NOT SENSING TEMP IN THE ROOM



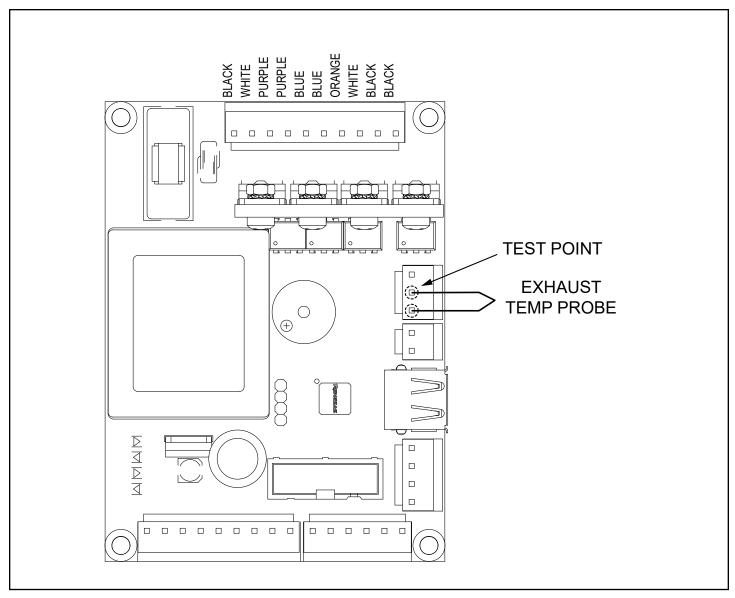
AT ROOM TEMPERATURE, THE AMBIENT PROBE WILL READ AROUND 10.2K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

#### **2 FLASHES: EXHAUST PROBE FAIL**



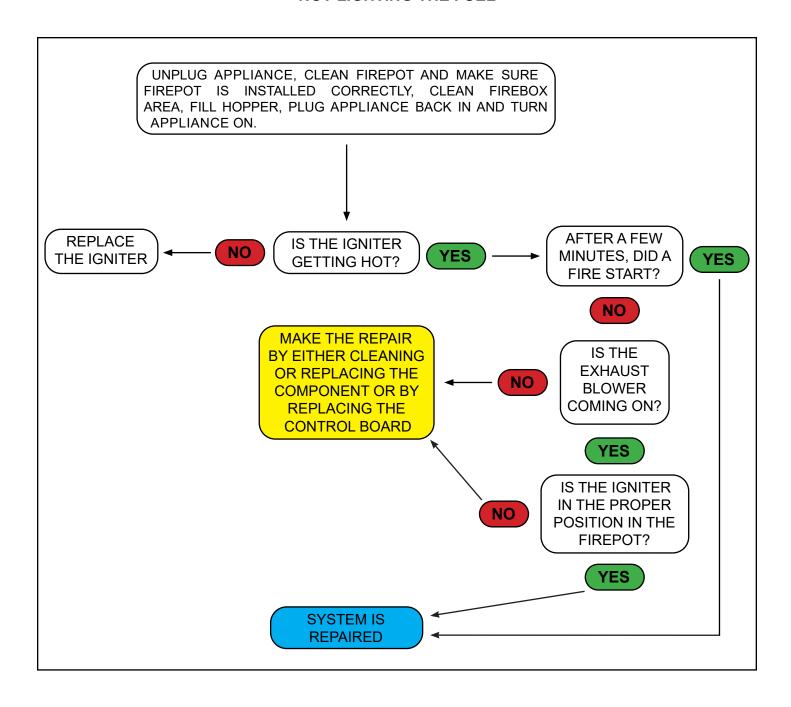
Testing Locations and Readings on next page.

#### **2 FLASHES: EXHAUST PROBE FAIL**



AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

#### NOT LIGHTING THE FUEL



# **NOT LIGHTING THE FUEL**

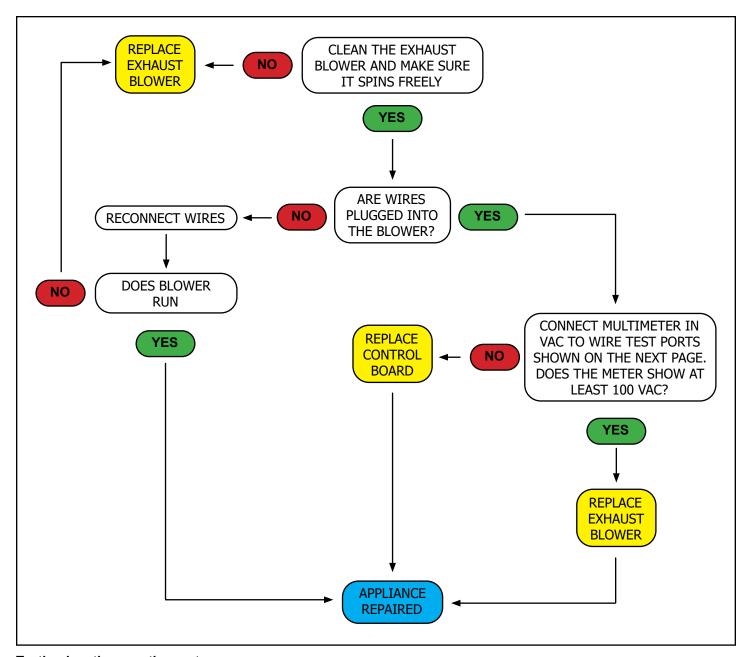
# 1. Check Igniter



# 2. Check Firepot Position

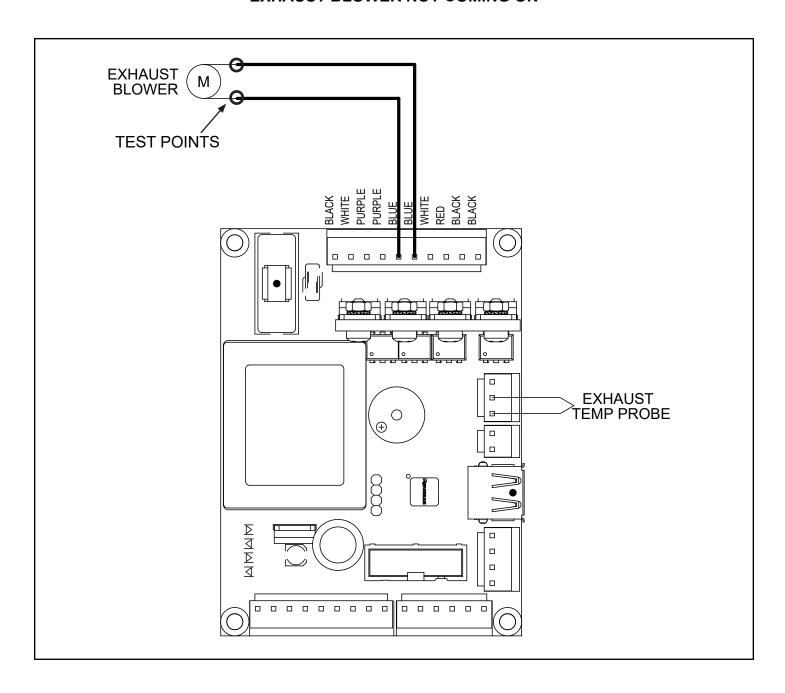


#### **EXHAUST BLOWER NOT COMING ON**



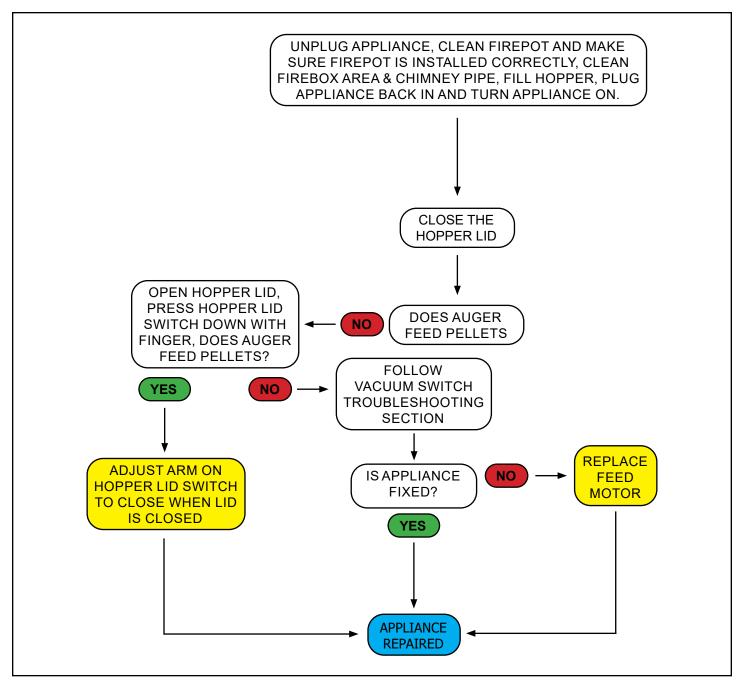
Testing locations on the next page.

# **EXHAUST BLOWER NOT COMING ON**



06/21

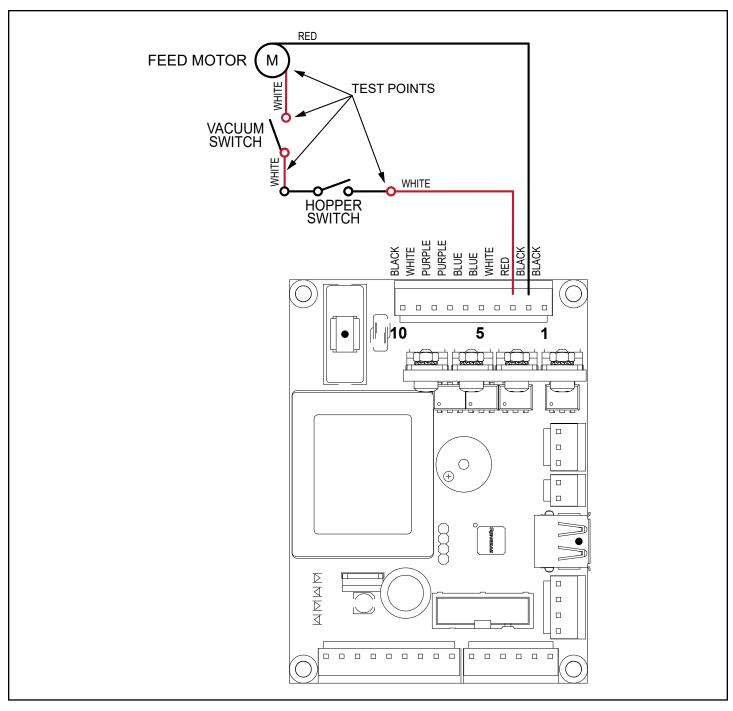
#### **NOT FEEDING PELLETS**



Testing locations and Readings on the next page.

06/21

#### **NOT FEEDING PELLETS**



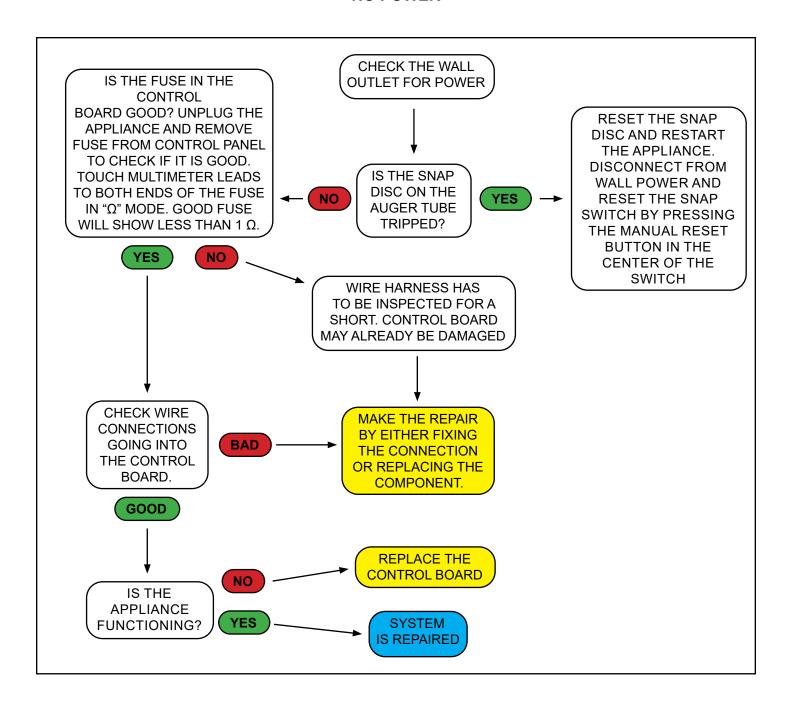
HOPPER SWITCH IS CLOSED WHEN THE HOPPER LID IS CLOSED.

VACUUM SWITCH IS CLOSED WHEN THE EXHAUST BLOWER IS ON.

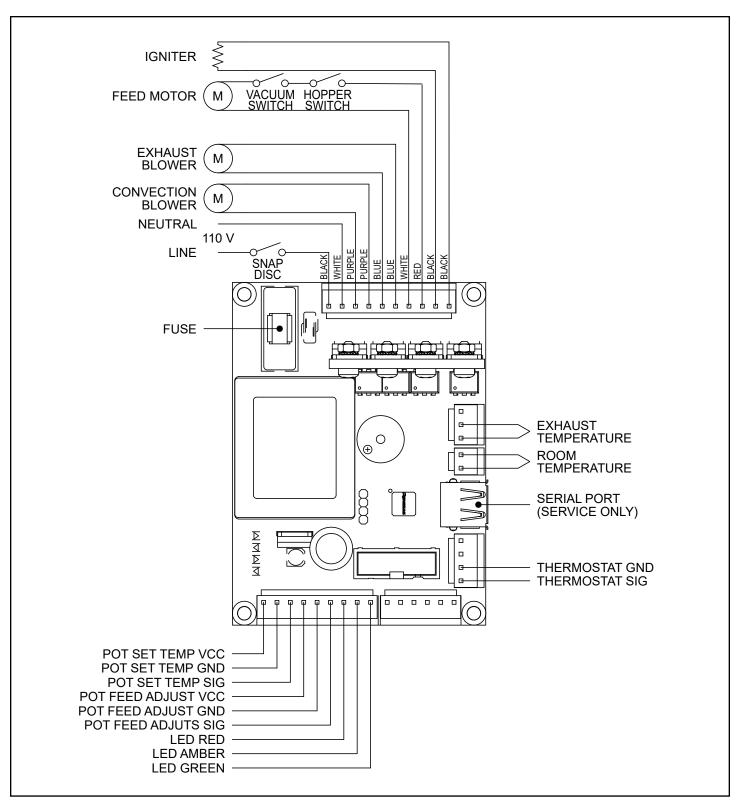
FEED MOTOR RUNS ON 115 VAC.

ALL CIRCUITS MUST BE CLOSED FOR THE FEED MOTOR TO WORK.

#### **NO POWER**



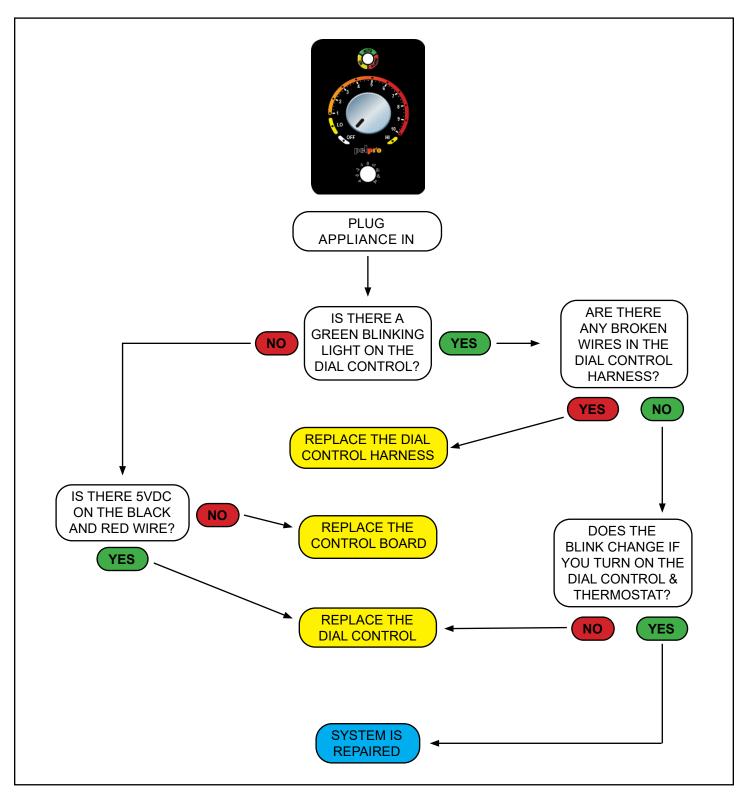
#### **NO POWER**



THIS IS THE MOST CURRENT WIRE DIAGRAM FOR HARNESS

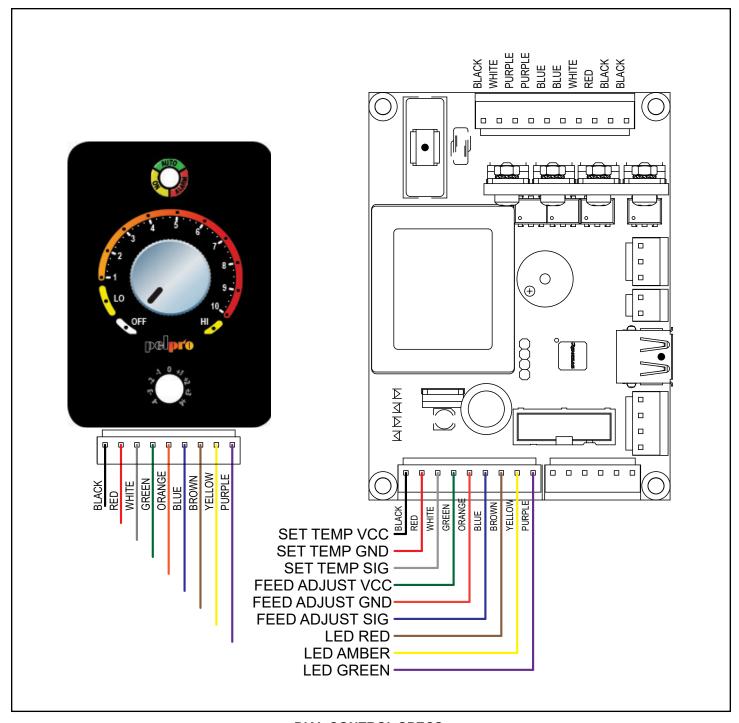
#### **DIAL CONTROL TROUBLESHOOTING**

#### DIAL CONTROL NOT WORKING



Testing locations and readings on next page.

#### **DIAL CONTROL TROUBLESHOOTING**



#### **DIAL CONTROL SPECS:**

**5VDC POWERS THE CONTROL** 

RESISTANCE MEASURED ACROSS BLACK & WHITE WIRE FOR DIAL: 10K OHMS TO 0 OHMS (OFF TO HI)