



TROUBLE SHOOTING MANUAL

ACUTRON 4 STOVES & INSERTS

PP60 AND PP130

PPC90



May 12th, 2017

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PELPRO TROUBLE SHOOTING MANUAL

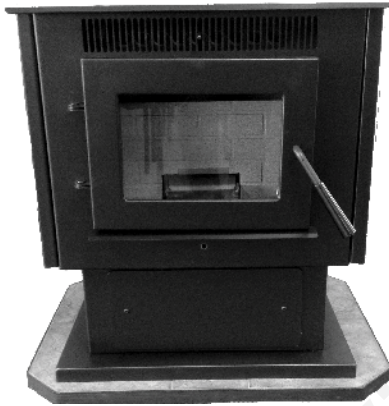
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PELPRO TROUBLE SHOOTING MANUAL

ACUTRON 4 STOVES AND INSERTS

<u>MODEL NAME</u>	<u>MODEL NUMBER</u>	<u>MANUAL NUMBER</u>
STEP TOP	FPPST4BD-M	7081-147
HOME HEATER DELUXE 120	HHP2BDD-M	7081-146
HOME HEATER 300	HHP32BD	7081-146
FREESTANDING	FPP2BD-M	7081-148
BAYVIEW	FPPBW2GD	7081-148
BAYVIEW INSERT	IPPBW2GD	7081-148



FREESTANDING



HH120



HH300



BAYVIEW



STEPTOP



BAYVIEW INSERT

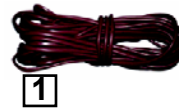
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PARTS LIST FOR ACUTRON 4 STOVES

HOME

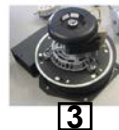
ACCESSORY ITEMS:

THERMOSTAT KIT (1).....KS-5120-1361
 FIREBRICK PANEL(2).....KS-5050-1130



BLOWERS:

EXHAUST BLOWER (3).....KS-5020-1040
 CONVECTION BLOWER (250 CFM) (4).....KS-5020-1052
 CONVECTION BLOWER (PRE SEPT 13) (5).....KS-5020-1050



CONTROL BOARD (ACUTRON 4) (6).....KS-5040-1101



DOOR PARTS:

GLASS (8.25" X 12").....KS-5070-1210
 LATCH HANDLE ASSY (7).....KS-5140-1448
 PHENOLIC HANDLE (BLACK) (8).....KS-5140-1442
 CAM LATCH ONLY.....KS-5140-1446



FEED MOTOR ASSY (9).....KS-5010-1031
 FEED MOTOR ONLY (ROUND) (10).....SRV7000-670
 FEED SHAFT ONLY (11).....KS-5010-1020



FIREPOT PARTS:

SUPER GRATE (12).....KS-5080-1240
 IGNITER (300W) (13).....KS-5030-1061
 HOPPER LID SWITCH (14).....KS-5100-1342



GASKETS:

DOOR GASKET (3/4" X 60").....KS-5060-1160
 CONVECTION BLOWER GASKET (15).....KS-5060-1180
 EXH ADAPTER GASKET (16).....KS-5060-1190
 EXH BLOWER GASKET (17).....KS-5060-1170

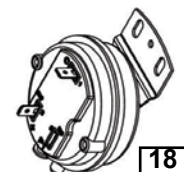


SNAP DISCS:

CONVECTION BLOWER (F125-20).....KS-5100-1320
 HIGH LIMIT (L250-40).....KS-5100-1330
 PROOF OF FIRE (L120-20).....KS-5100-1340

WIRE HARNESS (9 PIN).....KS-5110-1350

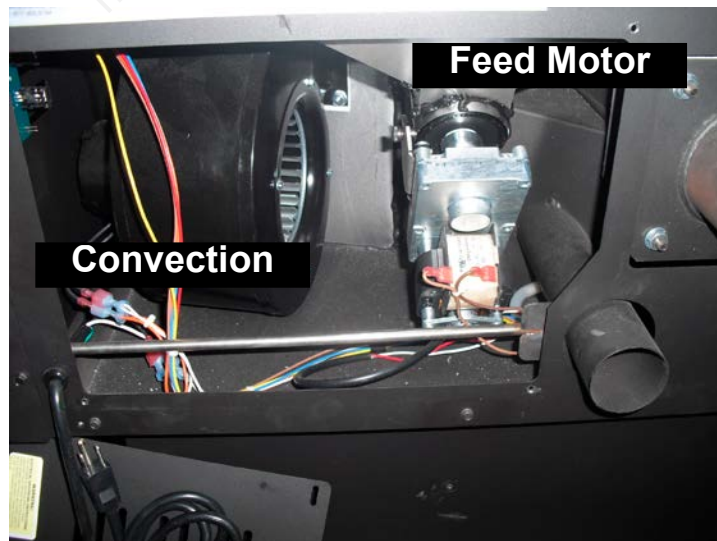
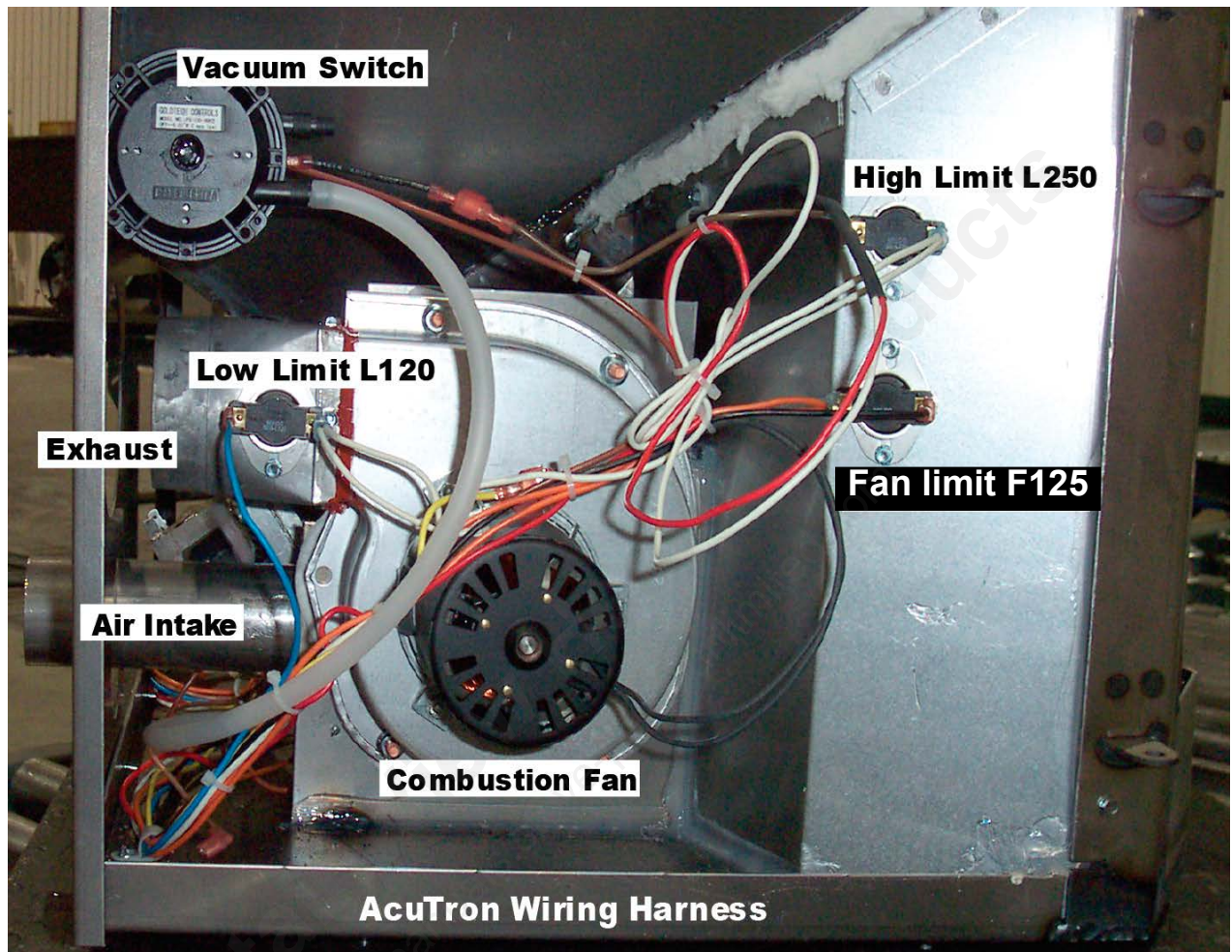
VACUUM SWITCH (18).....KS-5090-1300



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PART LOCATIONS FOR ACUTRON 4 STOVES

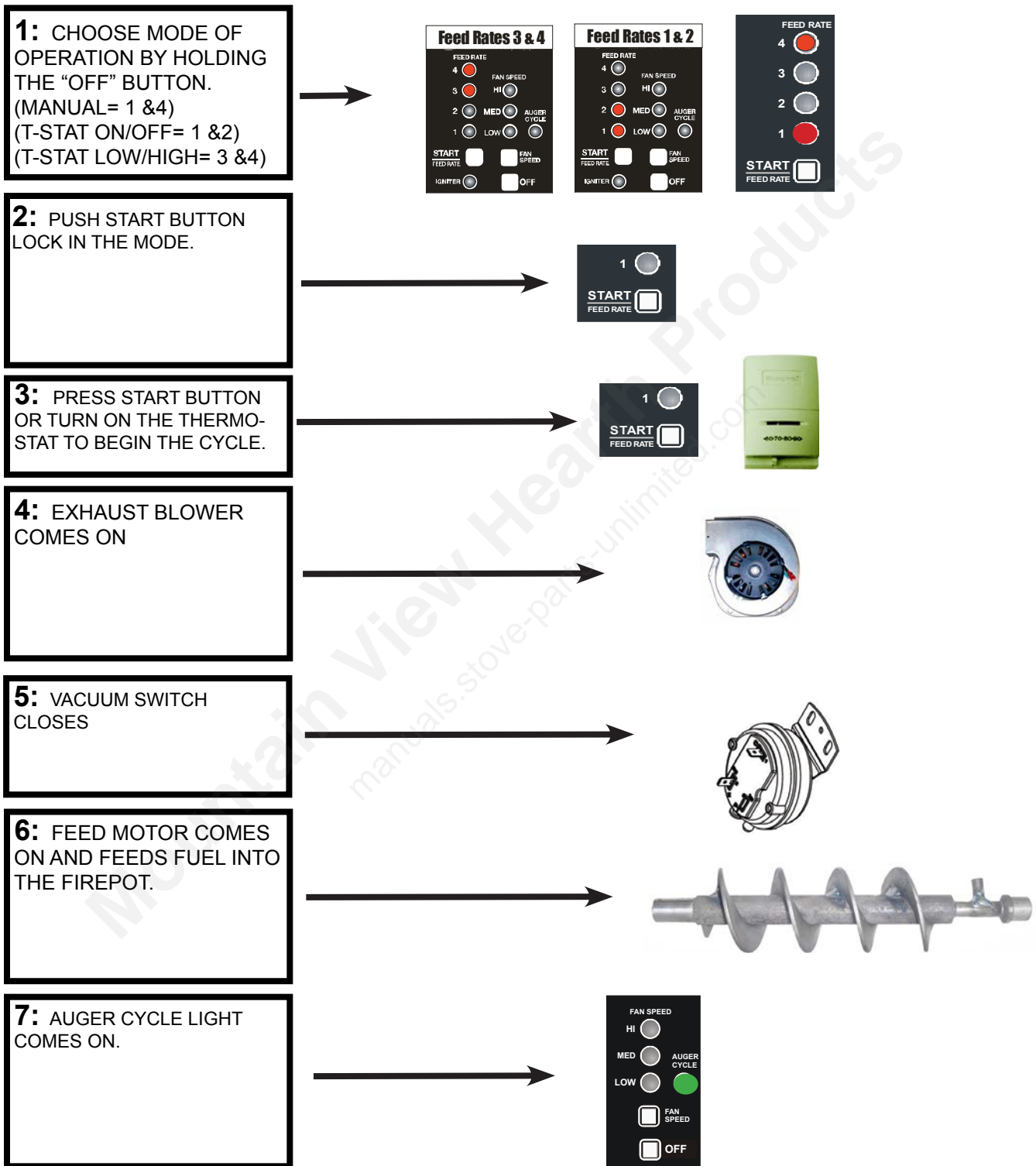
HOME



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ACUTRON 4 OPERATION CHART

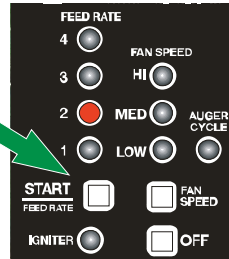
HOME



PELPRO TROUBLE SHOOTING MANUAL

ACUTRON 4 OPERATION CHART

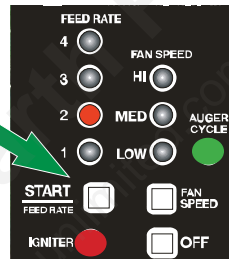
8: RED FEED RATE LIGHT WILL FLASH RAPIDLY



9: IGNITER COMES ON



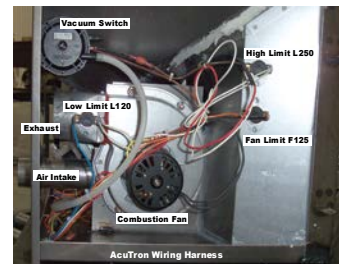
10: RED IGNITER LIGHT WILL COME ON.



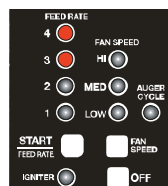
11: FIRE LIGHTS AND HAS 15 MINS TO REACH 120 DEGREES OR IT WILL SHUT DOWN.



12: FIRE REACHES 120 DEGREES AND PROOF OF FIRE SNAP DISC OPENS. (L120)



13: 5 MIN SAFETY DELAY BURN MODE STARTS AND RED LIGHT WILL FLASH SLOWER.

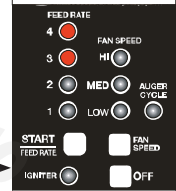


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ACUTRON 4 OPERATION CHART

HOME

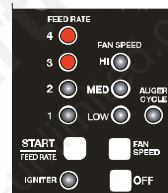
14: IGNITER AND IGNITER LIGHT WILL SHUT OFF.



15: IF THE F125 CONVECTION FAN SNAP DISC SEES 125 DEGREES OR HIGHER, IT WILL KICK THE BLOWER UP TO HIGH TILL IT COOLS DOWN.



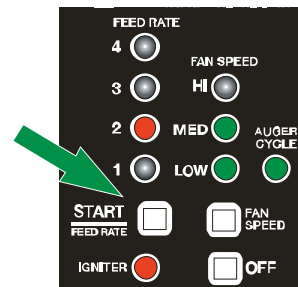
16: RED FEED RATE LIGHT WILL STOP FLASHING AND GO SOLID.



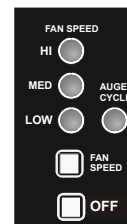
17: ROOM REACHES TEMPERATURE OR HEAT IS NO LONGER NEEDED. THERMOSTAT TURNS OFF OR "OFF" BUTTON IS PUSHED.



18: GREEN FAN SPEED LIGHTS WILL FLASH RAPIDLY AND GO INTO A 30 MIN SHUT-DOWN.



19: AFTER SHUT DOWN IS COMPLETE, ALL BLOWERS WILL BE OFF.



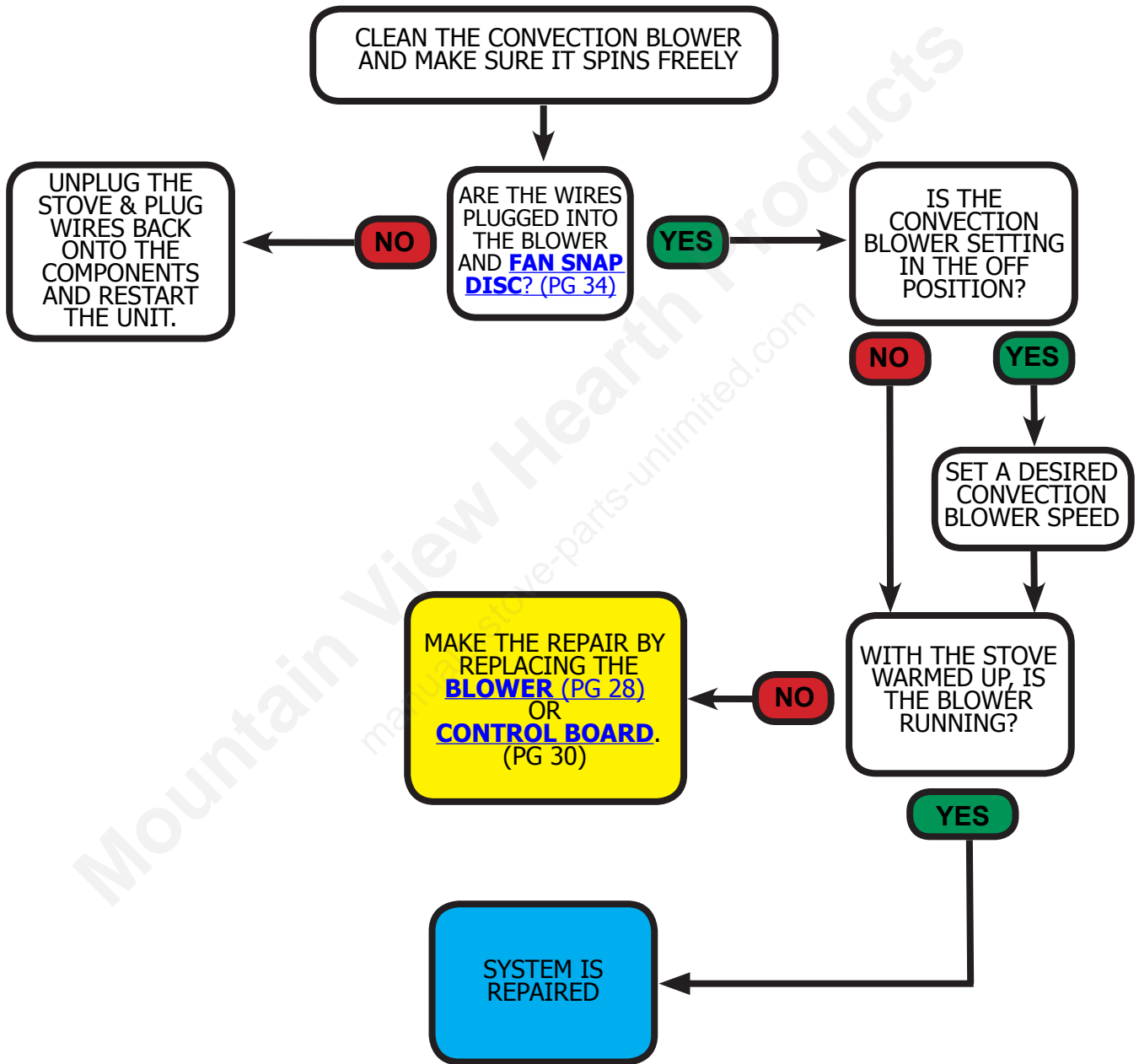
Acutron 4 PELLET STOVES

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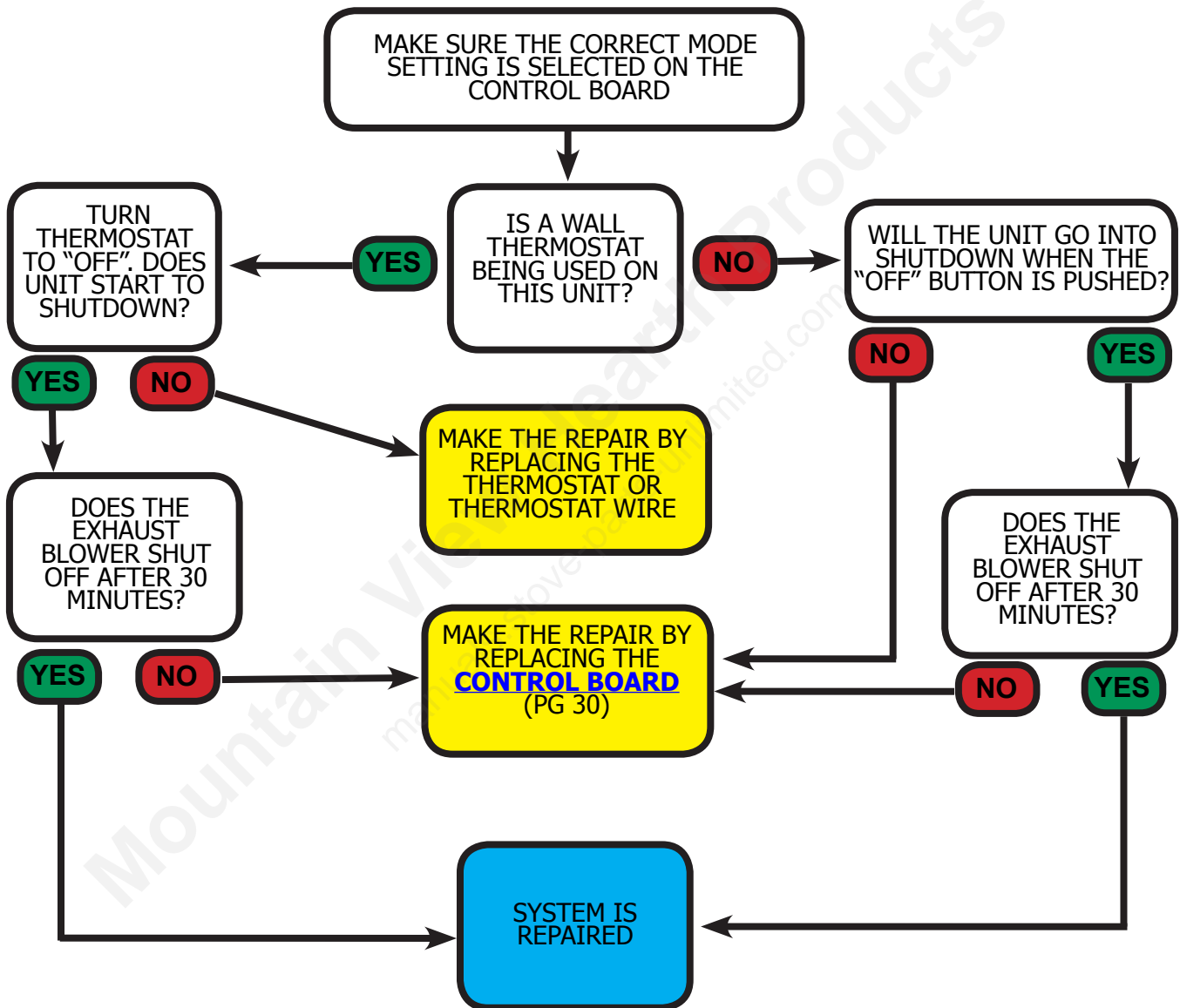
REFER TO THE OWNERS MANUAL FOR INFORMATION ON MAKING ADJUSTMENTS TO THE UNIT OR FOR THE PROCEDURES FOR REPLACING PARTS.

WARNING!
ALWAYS UNPLUG THE STOVE BEFORE CLEANING, REPLACING COMPONENTS AND CHECKING WIRE CONNECTIONS.

CONVECTION BLOWER TROUBLE-SHOOTING



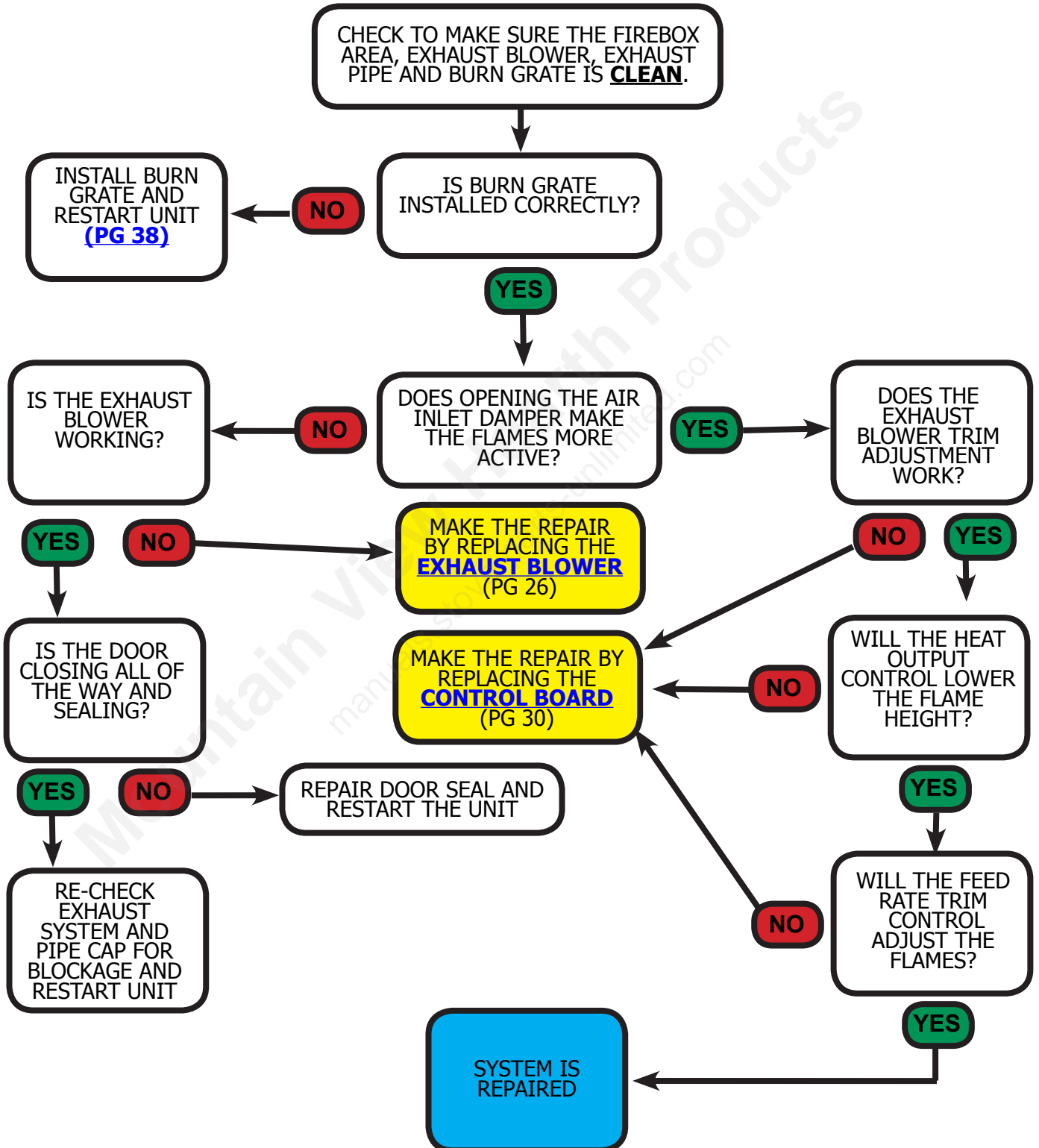
STOVE WILL NOT SHUT OFF



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ACUTRON 4 STOVES & INSERTS

LAZY SOOTY FLAMES OR FUEL BUILDING UP IN
THE BURN GRATE

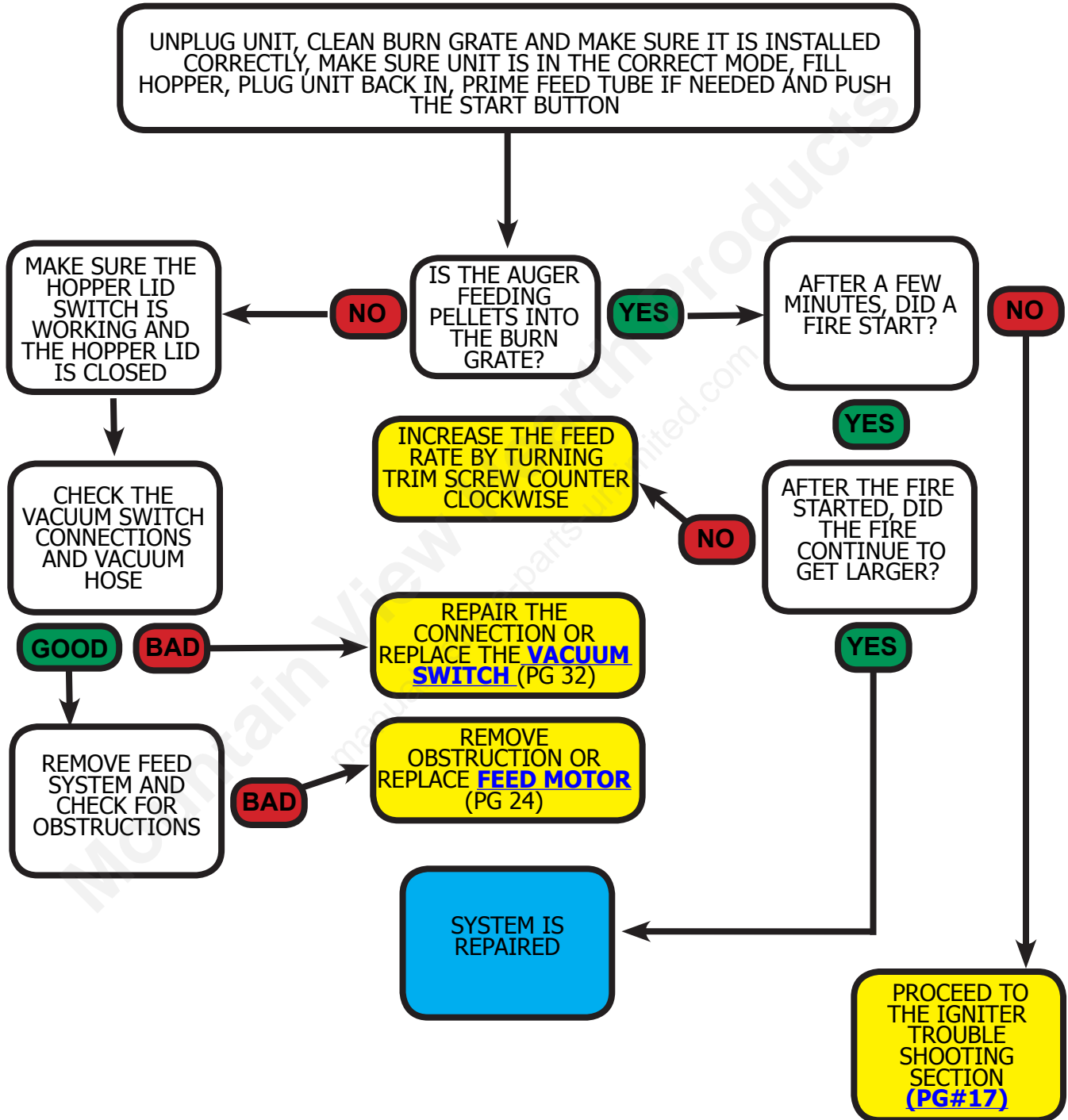
HOME



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ACUTRON 4 STOVES & INSERTS

UNIT WILL NOT START

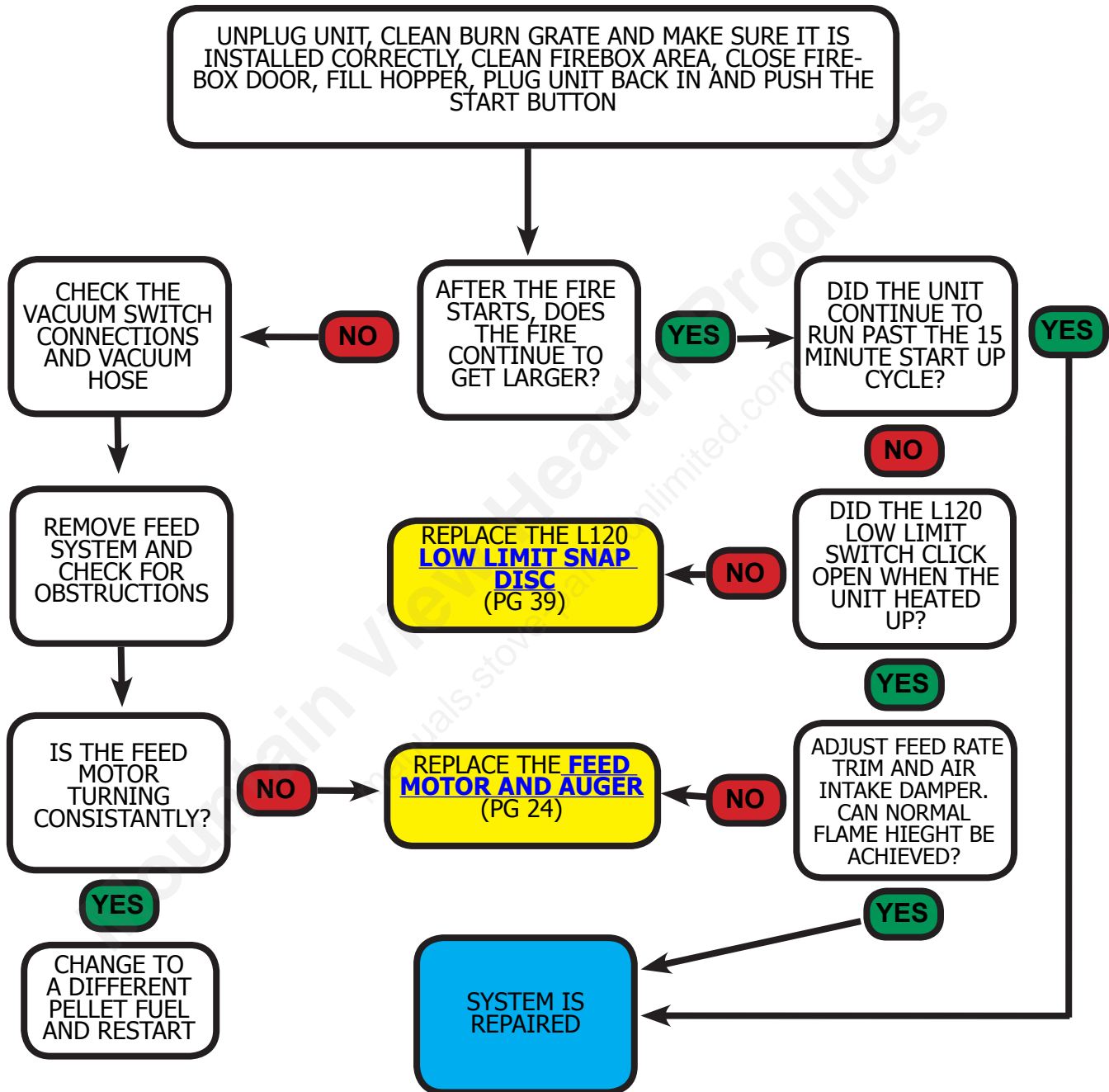
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ACUTRON 4 STOVES & INSERTS

STOVE KEEPS GOING OUT

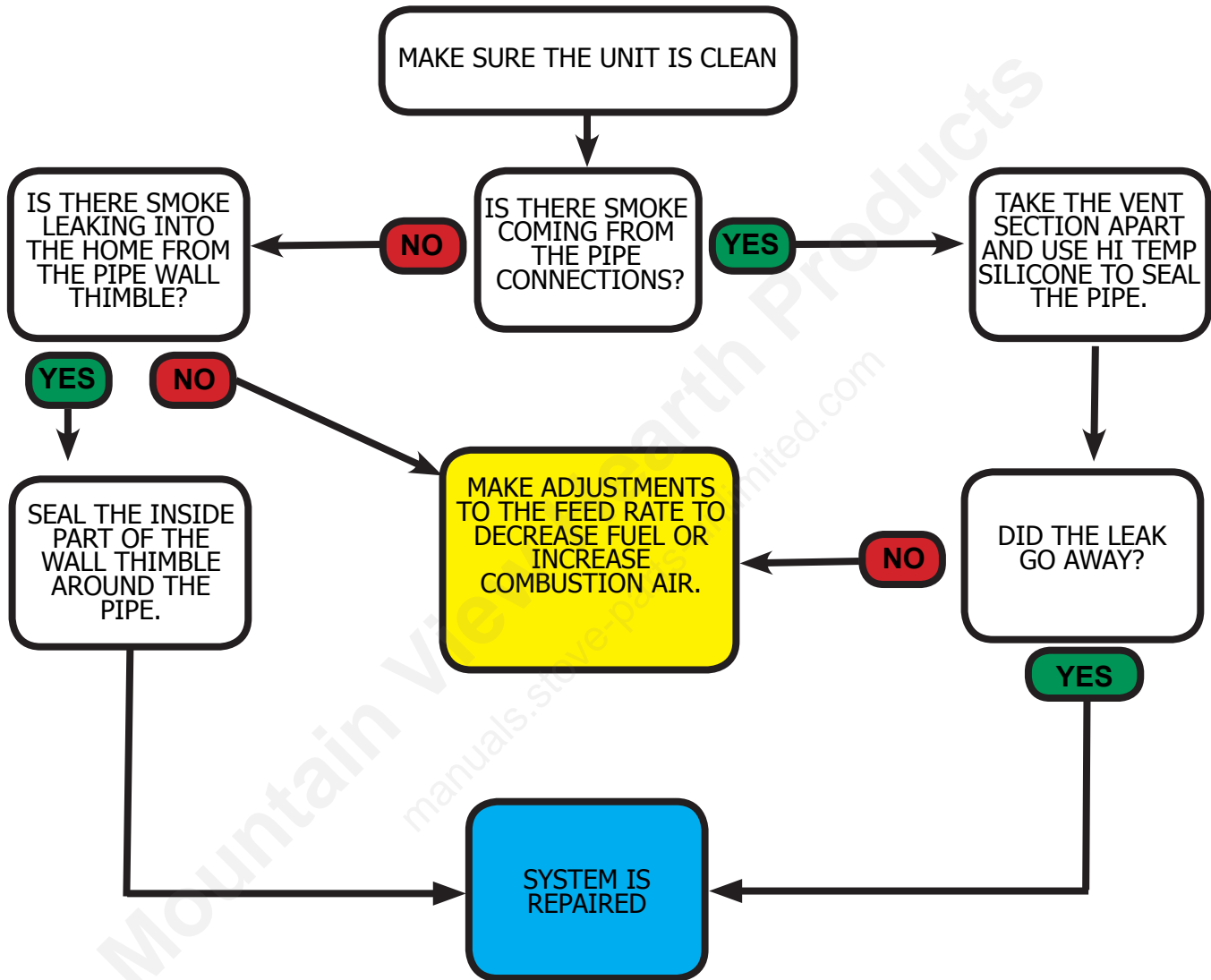
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SMOKE SMELL OR SMOKE SPILLAGE

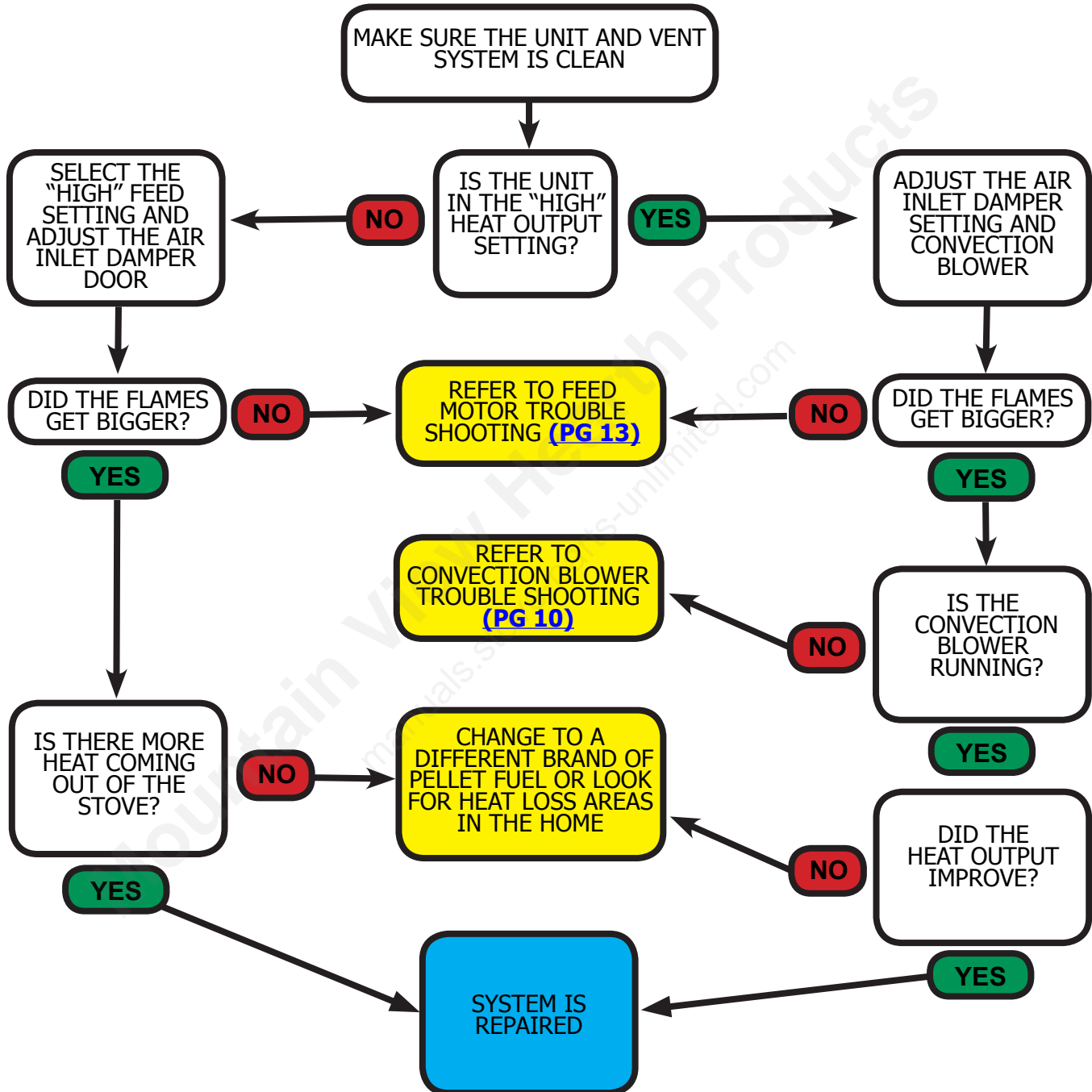
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ACUTRON 4 STOVES & INSERTS

NO HEAT OUTPUT

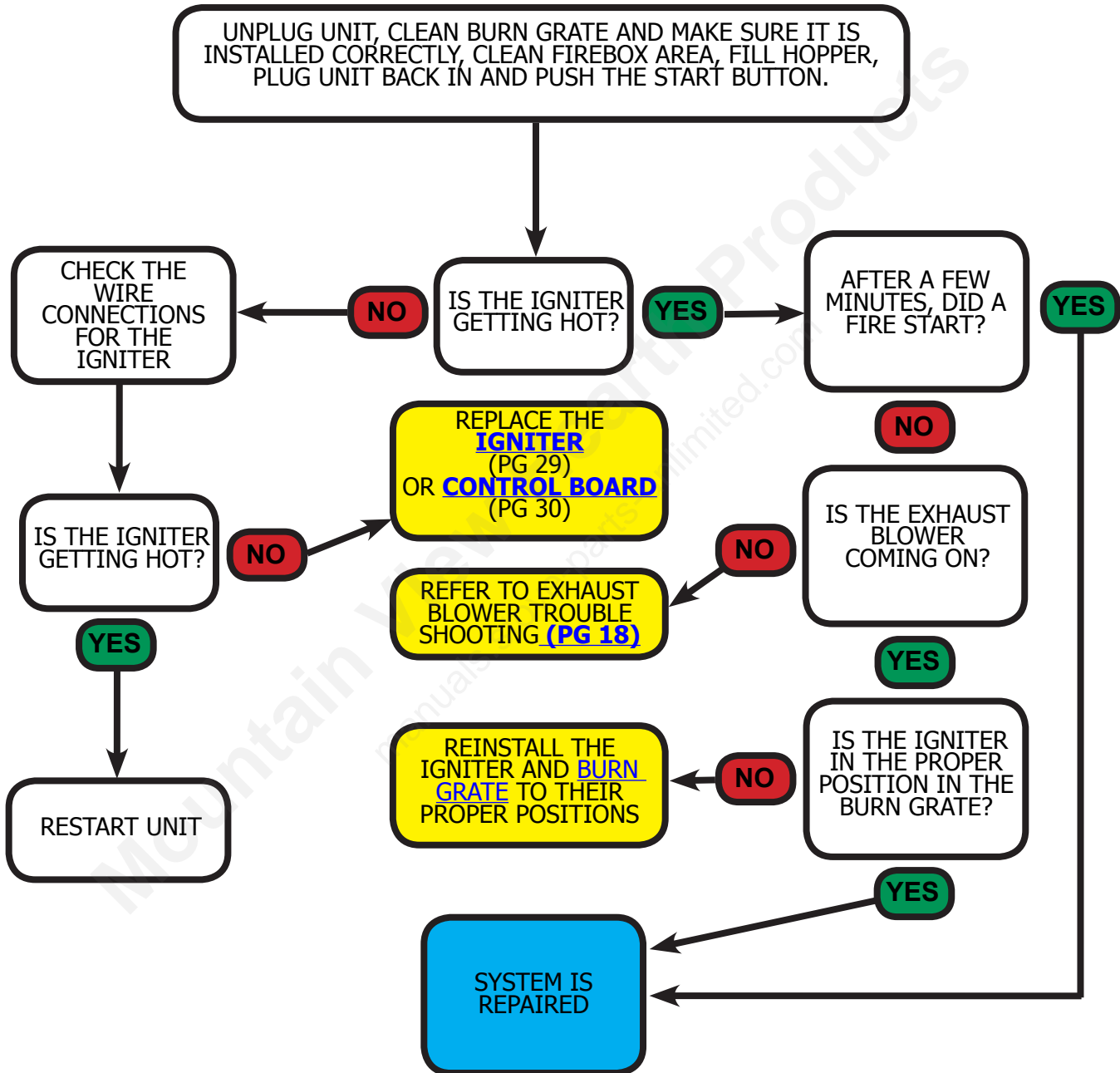
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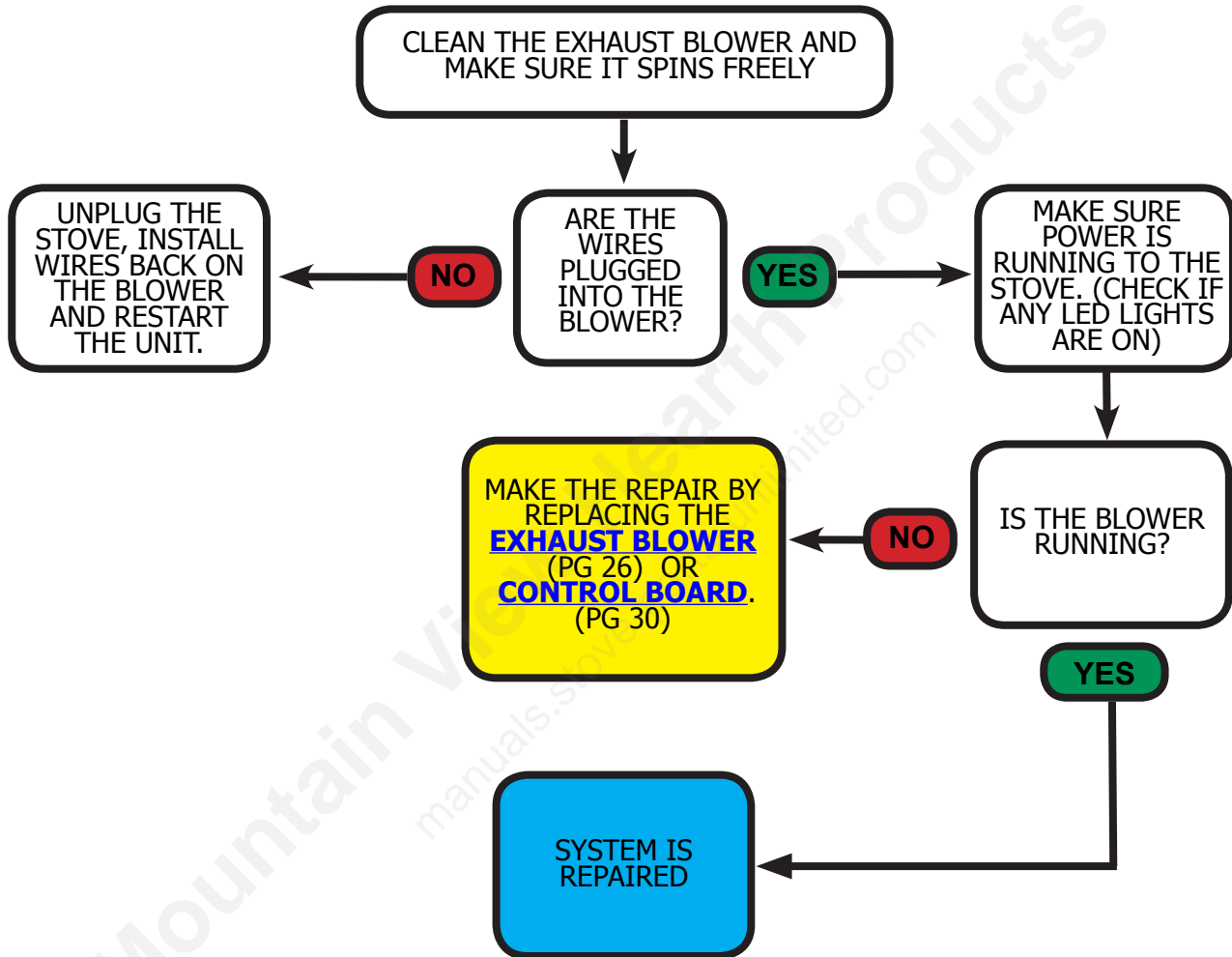
NOT LIGHTING THE FUEL



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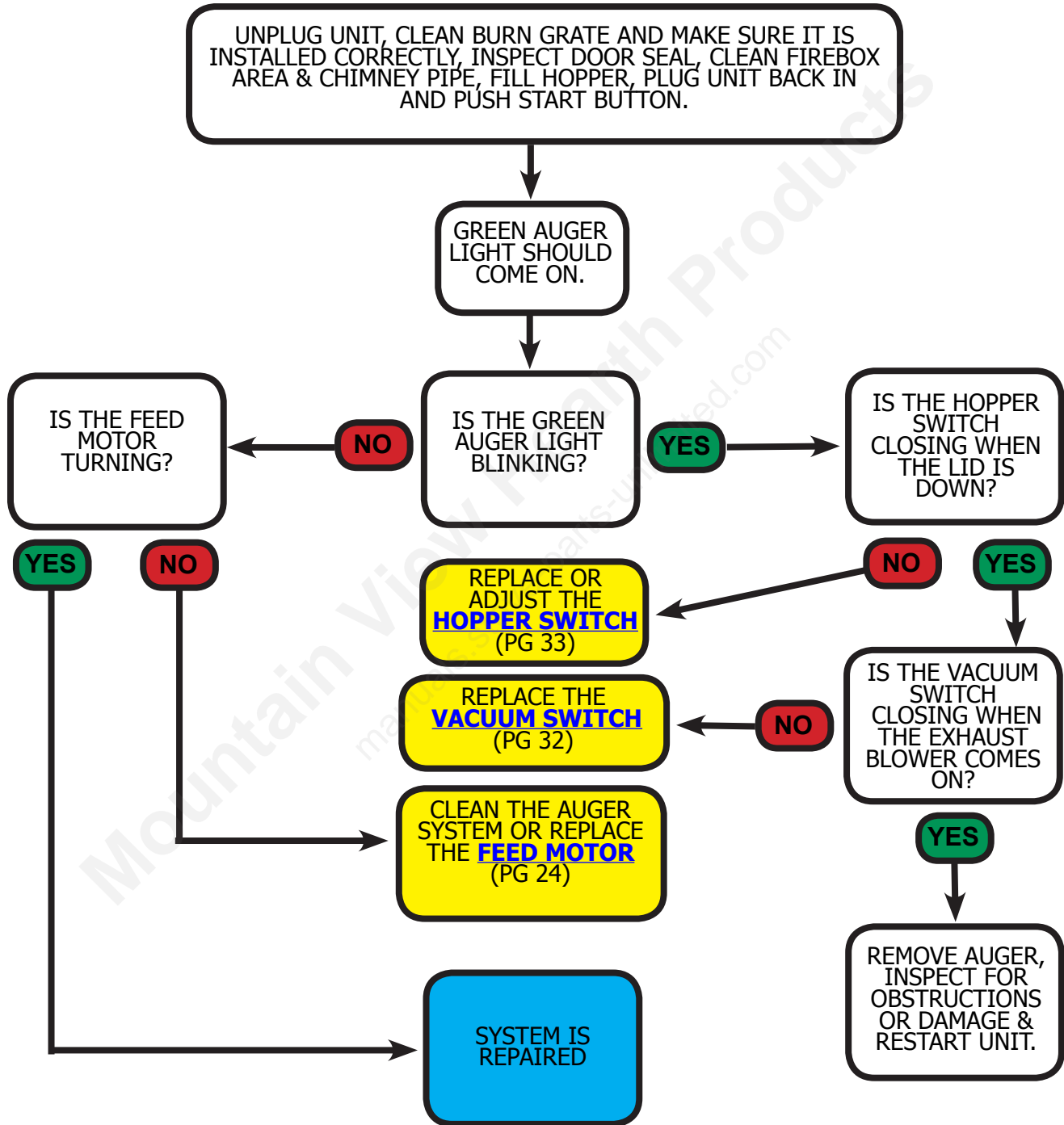
EXHAUST BLOWER NOT COMING ON



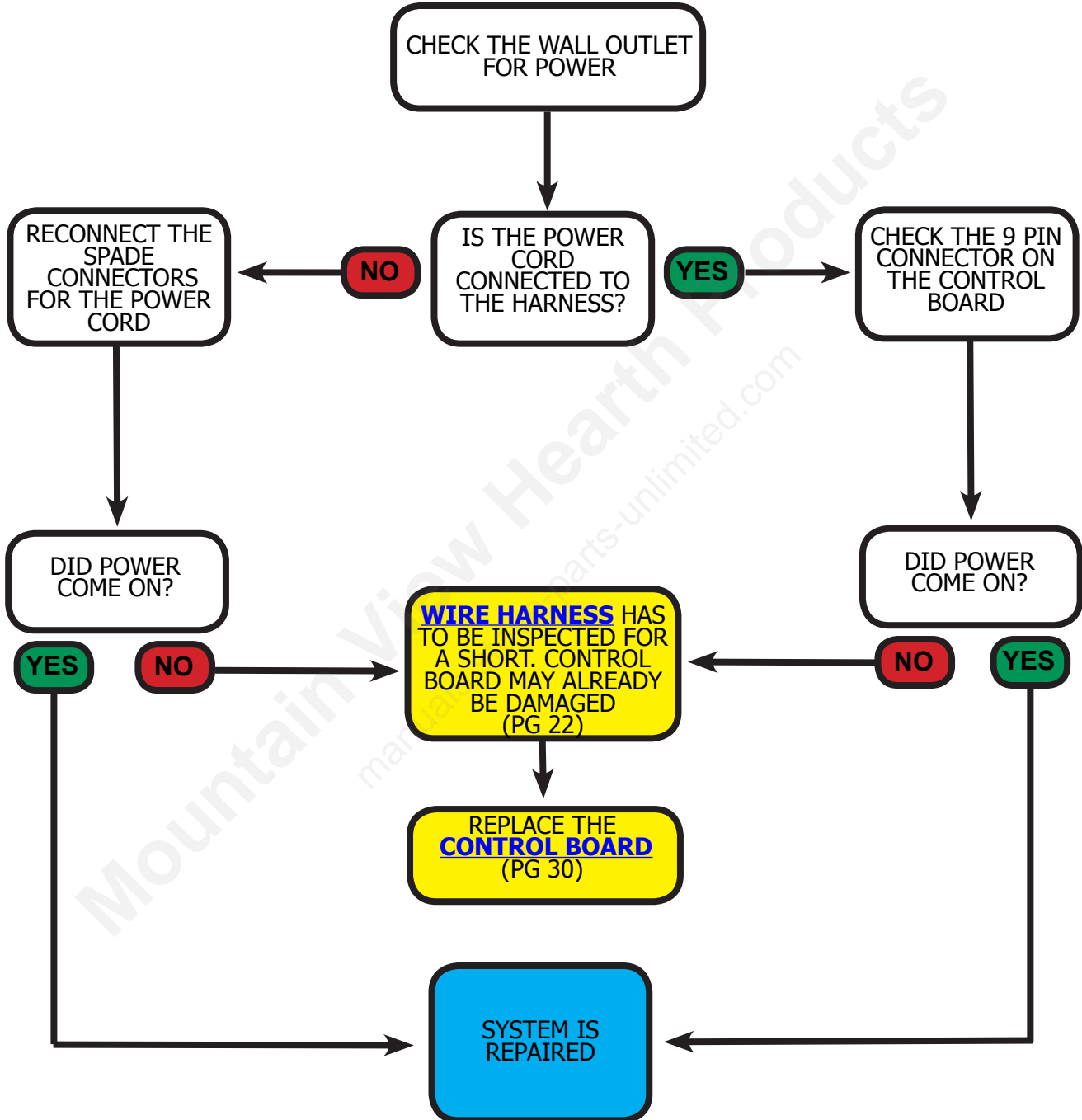
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HOME

NOT FEEDING PELLETS



NO POWER



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ACUTRON 4 STOVES & INSERTS

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Main AcuTron Wire Harness Installation Instructions



PART NUMBER
KS-5110-1350



Recommended Tools:

- 1/4" Hex Nutsetter
- Socket Driver
- Small Sized Flat Head Screwdriver

NOTE: Always Disconnect Power Before Performing Service Work

Step By Step Installation:

1. Unplug the stove power chord from the wall outlet (Fig. A).
2. Remove left, right, and rear access panel (Fig. B) from stove.
3. Unplug all connections from wire harness
4. Unscrew the wire retaining clamps from the floor of the stove and remove the wire harness.
5. Insert the new wire harness into wire retaining clamps and screw back into place.
6. Re-connect wire harness wires (see next page for connections).
7. Attach left, right and rear access panel to stove.

Fig A



Fig B



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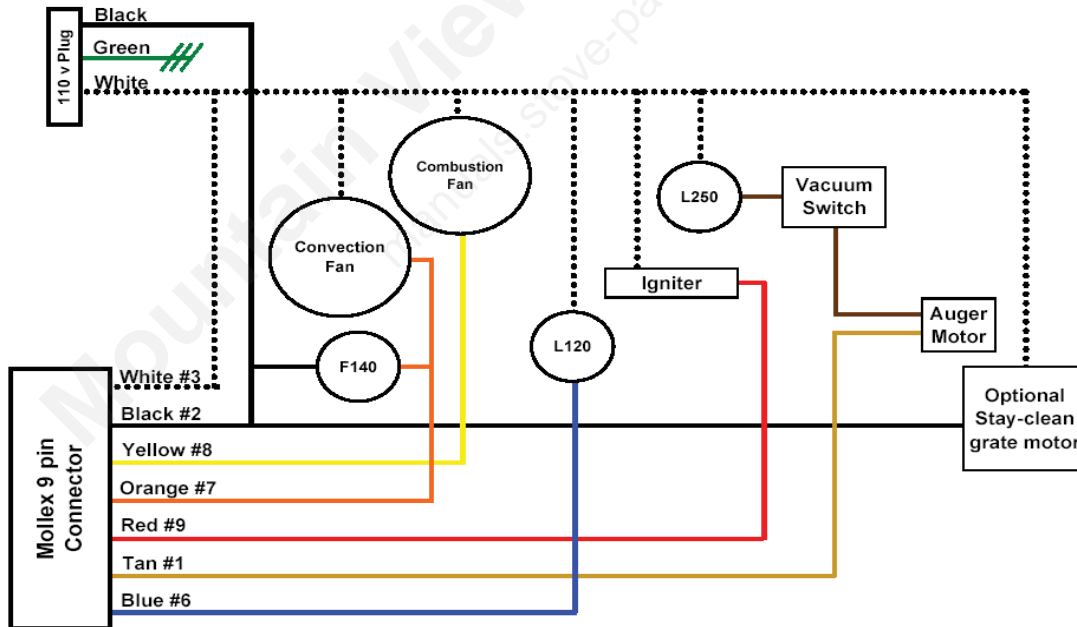
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ACUTRON 4 REPAIR PROCEDURES

Main AcuTron Wire Harness

ACU-TRON WIRING HARNESS

Connection	Wire Color	Connection Type	Termination	Lead From
Igniter	Red	White 2 Prong Male Plug	White Female Igniter Plug	Control Board
	White			Common
L250 Hi Limit Switch	White	Straight Female	Post	Common
	Brown	Straight Female	Post	Vacuum Switch
F140 Low Limit Switch	Black	Straight Female	Post	Sta-Clean Grate, Power cord
	Orange	Straight Female	Post	Convection fan
Vacuum Switch	Brown	Straight Female	Post	Auger Motor
	Brown	Straight Female	Post	Hi Limit Switch
Igniter Limit Switch	Blue	Straight Female	Post	Control Box
	White	Straight Female	Post	Common
Combustion Fan	Yellow	Straight Female	Fan Male Connector	Control Box
	White	Straight Male	Fan Female Connector	Common
Auger Motor	Tan	Straight Female	Post	Control Box
	Brown	Straight Female	Post	Vacuum Switch
Optional Sta-Clean Grate	Black	Straight Female	Male Connector	Power, Control Board, F140
	White	Straight Female	Male Connector	Common
Convection Fan	Orange	Straight Male	Fan Female Connector	F140
	White	Straight Female	Fan Male Connector	Common
Power Cord	White	Straight Male	Female Connector	Common
	Black	Straight Female	Male Connector	Control Board, Sta-clean Grate, F140

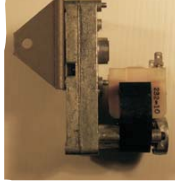


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Auger Motor Assembly Installation Instructions



Parts Included

- Auger Motor Assembly
- Motor and Gear Box
- Mounting Bracket

PART NUMBER

- KS-5010-1010
- KS-5010-1021

Recommended Tools:

- 5/32" Allen Key
- Socket Driver
- Side Cutters or Knife
- 1/4" Hex Nut Setter
- RTV Silicone

NOTE: Always Disconnect Power Before Performing Service Work

Instructions:

1. Unplug the stove power cord from the wall outlet. Fig A
2. To gain access to the back of the appliance, remove the 1/4" hex screws from the four corners of the REAR SLOTTED ACCESS PANEL. This is located on the back lower side of the appliance. Fig B
3. To gain access to the side of the appliance, remove the 1/4" hex screws from the LEFT HAND SIDE PANEL. These are located on the back left hand side corner of the unit. Fig B
4. Locate the position of the SET SCREW (F) located on the LOCK COLLAR (E). You will find it easier to service if the set screw is facing directly toward the combustion fan or left hand side panel. Fig D
5. You may have to plug the unit back in, Press the Start button to activate the auger motor. When the set screw is facing directly toward the left hand side panel, unplug the stove to stop the auger cycle.
6. Disconnect the two wires from the auger motor.
7. Loosen the SET SCREW (F) on the lock collar.
8. Remove the SET SCREW (B) completely from the auger mounting bracket. This is found on the control board side of the auger, and secures the auger motor to the auger feed tube. Fig E
9. Gently slide the motor backwards and away from the auger shaft and tube.



Fig A



Fig B

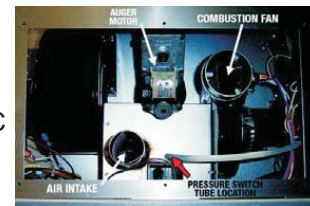


Fig C

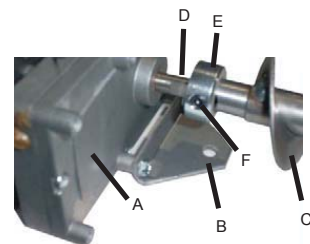


Fig D



Fig E

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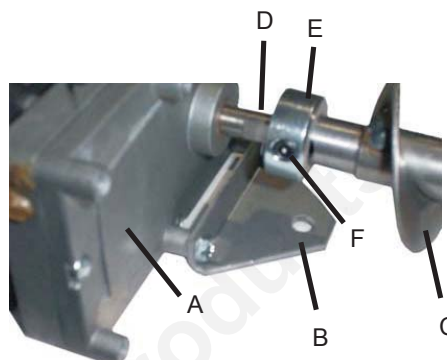
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ACUTRON 4 REPAIR PROCEDURES

Auger Motor Assembly

Step By Step Installation:

1. Before installing the new auger motor, ensure that the flat spot on the auger motor shaft (D) is lined up in the same direction as the auger shaft set screw (F). Both should be facing directly toward the left hand side panel (G).
2. You may have to plug the motor in and start the control board to allow the auger motor shaft to turn in the direction you want.
3. Slide the new auger motor (A) onto the auger shaft (C).
4. Re-install the set screw on the mounting bracket first (B) Hand tighten as much as possible, then use the 5/32 L Key to tighten firmly.
5. Firmly hand tighten the set screw found on the lock collar (F). Use the 5/32 L key to tighten firmly.
6. Reconnect the two wires to the auger motor.
Note: If the connectors do not reach the motor, you may have to snip one or two wire ties located close to the connection ends.
7. Plug stove in and start the control board to confirm that everything is working correctly.
8. Re-install the rear access panel
9. Re-install the left hand side panel.
10. Slide stove back into place.
11. Re-install the Approved PL Venting or Stainless Liner to the exhaust outlet of the combustion fan. Make sure ALL joints and connections are sealed using only HIGH TEMP RTV Silicone.



Final Step

Start -Up the appliance and go through the complete START UP procedure.

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Combustion Fan Installation Instructions



Parts Included

- 1- Combustion Fan
- NO exhaust hook-up
- 1 - Combustion Fan Gasket

PART NUMBER
K- 5020-1040
KS-5060-1170

Recommended Tools:

- 7/16" Narrow Deep Socket
- Socket Driver
- Putty Knife or Scraper
- 1/4" Hex Nut Setter
- RTV Silicone
- Side Cutters or Knife

NOTE: Always Disconnect Power Before Performing Service Work

Step By Step Removal:

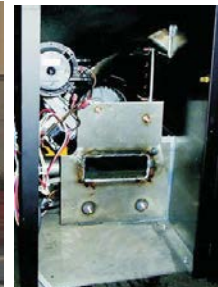
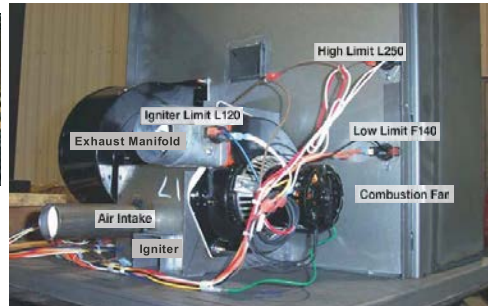
1. Unplug the stove power cord from your surge protected power source. (Fig A)
2. To gain access to the inside of the appliance, remove the 1/4" hex screws from the LEFT HAND SIDE PANEL. These are located on the back left hand side corner of the appliance. (Fig B)
3. Remove the 1/4" hex screw holding the wire harness clamp and the Green GROUND WIRE from the combustion fan. This is located on the base of the appliance and off to the left of the fan.
4. Carefully disconnect the Blue and Double White wires from the IGNITER/LOW Limit switch (L120) located on the combustion fan.. Be sure to hold firmly on both sides of each connection, then wiggle and pull free.
5. For ease of fan removal it may be necessary to disconnect the Brown and Double White wires from the HI Limit Switch (L250) and the Double Orange and Black wires from the FAN Limit Switch (F140). These switches are located on the back of the firewall.
6. For further ease of fan removal, you may find it necessary to disconnect the AIR TUBE from the Vacuum Switch.
7. Disconnect the Yellow and Double White wires from the Black Combustion Fan connections. You may have to use your side cutters to cut any wire clamps.
8. Remove the 4 x 7/16" nuts that attach the combustion fan to the exhaust mounting.
9. Remove the used 1/8" fibre gasket and ensure the mounting manifold is clean of debris.
10. Unscrew the 4 - 1/4" self-tapping hex screws holding the exhaust manifold to the combustion fan housing. You will have to cut the RTV Silicone securing the manifold to the fan housing as well.
11. The Igniter Limit (L120) can remain mounted to the exhaust manifold, but if found on the fan housing this will need to remove. Unscrew the 2 - 1/4" self tapping screws.



Fig A



Fig B



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ACUTRON 4 REPAIR PROCEDURES

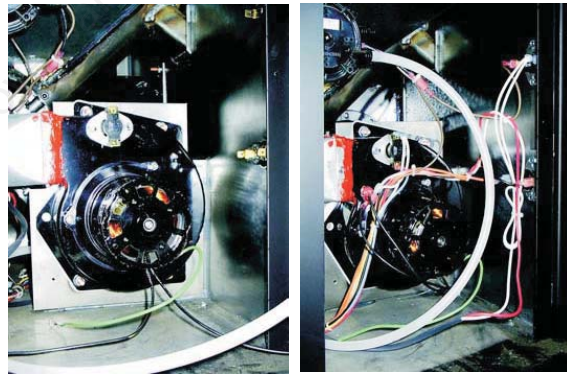
Combustion Fan Assembly

Step By Step Installation:

1. Install the Exhaust Manifold, taken off the old fan housing, using the 4 - 1/4" self tapping screws and your 1/4" hex setter and driver. Use RTV silicone to seal around the manifold and around any screw holes. IT IS IMPORTANT TO ENSURE AN AIR TIGHT SEAL. See diagram below for location.
2. Install the Igniter/Low Limit (L120), if need to, using the 2 - 1/4" self tapping screws and your 1/4" hex setter and driver. Mount it directly on the fan housing. See diagram below. Be sure not to drill into the fan blade.
3. Install the new 1/8" FIBRE Gasket on the exhaust manifold, over the mounting bolts.
4. Install the new Combustion Fan. Hand tighten the 4 7/16" nuts to the mounting bracket. Be sure to mount fan to leave room for your socket to fit. Once tightened, then tighten snugly with your socket.
5. Re-connect the Brown and Double White wires to the HIGH Limit switch (L250). It does not matter to witch post, but to confirm see diagram below.
6. Re-connect the Double Orange and Black wires to the FAN Limit switch (F140). Again it does not matter witch post.
7. Re-connect the Blue and Double White wires to the IGNITER / LOW Limit Switch (L120).
8. Re-connect the Yellow and Double White wires to the Black wires from the combustion fan.
9. Re-connect the Green Ground wire to the base, using the 1/4" hex screw and harness clamp.
10. Re-connect the Vacuum Tube to the Vacuum switch. This should be hooked up to the plastic nibble marked "L". See Diagram to confirm.
11. Re-install the LEFT HAND PANEL.
12. Slide stove back into place.
13. Re-install the Approved PL Venting or Stainless Liner to the exhaust manifold of the combustion fan. Make sure ALL joints and connections are sealed using only HIGH TEMP RTV Silicone.



Style of exhaust manifold may not be exactly as shown



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The Hearth Expert

Convection Fan Installation Instructions



Parts Included

- 1- Convection Fan
- 1 - Convection Fan Gasket

PART NUMBER
KS-5020-1050
KS-5060-1180

Recommended Tools:

- 7/16" Narrow Deep Socket
- Socket Driver
- 1/4" Hex Nut Setter
- Putty Knife or Scraper

NOTE: Always Disconnect Power Before Performing Service Work

Step By Step Removal:

1. Unplug the stove power cord from the surge protected electrical source. Fig A.
Failure to do so could result in shorting out the control board.
2. To gain access to the Right Hand side of the appliance remove the 1/4" or 5/16" hex screws from the rear of the stove. There will be 3 or 4 depending on the model of stove. Slide loose panel straight back slightly, then lift off. Fig. B
3. Disconnect the Main Wire Harness from the Control Board.
4. Disconnect the Orange and double White wires from the convection fan.
5. Using your 7 1/16" nut setter and driver, remove the 4 x 7 1/16" nuts securing the convection fan to the stove. Fig C.
6. Using your putty knife or scraper remove the gasket material. Fig D.

Fig A



Fig B



Fig C

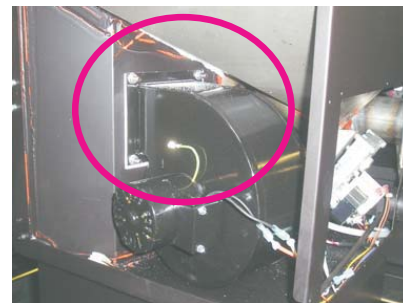


Fig D



Step By Step Re-Install:

1. Install the new gasketing
2. Place new Convection Fan over the threaded studs. Hand install and tighten the 4 x 7 1/16" nuts. Then tighten firmly, be careful not to over tighten, using the nut driver.
3. Re-connect the Fan wires to the Orange and Double White wires of the main harness. It does not matter which fan wire hooks to the main harness.
4. Re-install the Main Harness to the Control Board.
5. Re-install the Side Panel
6. Plug the appliance back into a surge protector, and start the Control Board to confirm that everything is working correctly.

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300 Watt Igniter Cartridge Installation Instructions



Parts Included
1- Igniter Cartridge

PART NUMBER
KS-5030-1061

Recommended Tools:

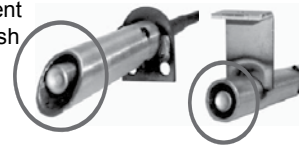
- 1/8" Allen Wrench

NOTE: Always Disconnect Power Before Performing Service Work

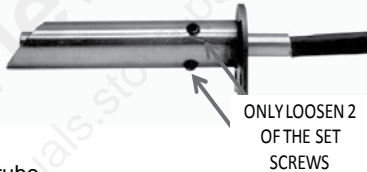
Once you have removed the igniter assembly from the stove, follow these instructions to change the igniter cartridge. When the igniter cartridge has been changed follow the installation instructions to install the igniter assembly back into the stove.

Instructions:

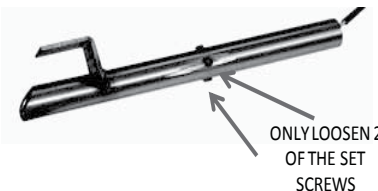
1. Make note of the position of the igniter cartridge. Each igniter assembly has a different position for the igniter cartridge. Some stick out of the tube slightly and some are flush with the end of the tube.



2. Slightly loosen 2 of the set screws that are next to each other with an Alan wrench. Do not loosen more than 1/4 of a turn.



ONLY LOOSEN 2
OF THE SET
SCREWS



ONLY LOOSEN 2
OF THE SET
SCREWS

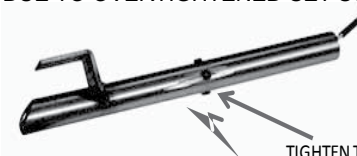
3. Slide the old igniter cartridge out of the tube.



4. Slide new igniter cartridge into the tube as far as the old one was in and then tighten the 2 set screws that you loosened in step 2. **DO NOT** over tighten the screws. Just tighten them enough so the cartridge cannot move. **IF THE SCREWS ARE OVERTIGHTENED, THE CERAMIC CARTRIDGE CAN CRACK. WARRANTY DOES NOT COVER DAMAGE DUE TO OVERTIGHTENED SET SCREWS.**



TIGHTEN THE 2 SET
SCREWS THAT YOU
LOOSENED IN STEP 2
DO NOT OVERTIGHTEN



TIGHTEN THE 2 SET
SCREWS THAT YOU
LOOSENED IN STEP 2
DO NOT OVERTIGHTEN

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Acutron Control Installation Instructions



PART NUMBER
KS-5040-1100
KS-5040-1101

NOTE: Always Disconnect Power Before Performing Service Work

STEP 1: Unplug the stove.

STEP 2: Remove the rear access panel at the rear of the stove. There are four 1/4" hex head screws holding the panel in place.

STEP 3: Gently disconnect the white 9 pin molex connector from the control board.

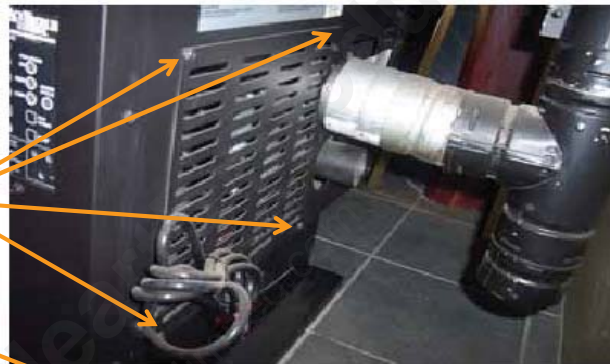
STEP 4: Hold the control board with your hand from the back side while removing the screws via the side of the stove. Remove the two 1/4" hex head screws. Remove the control board thru the rear access panel.

STEP 5: Place the new control board in the opening and replace the two 1/4" hex head screws.

STEP 6: Connect the 9 pin molex connector to the control board making sure the connection is tight.

STEP 7: Install the rear access panel with the four 1/4" hex head screws.

STEP 8: Plug the stove into power outlet and begin start up procedures.



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PELPRO TROUBLE SHOOTING MANUAL

ACUTRON 4 REPAIR PROCEDURES

Acutron Control

IMPORTANT: PLEASE READ BEFORE INSTALLING NEW CONTROL BOARD

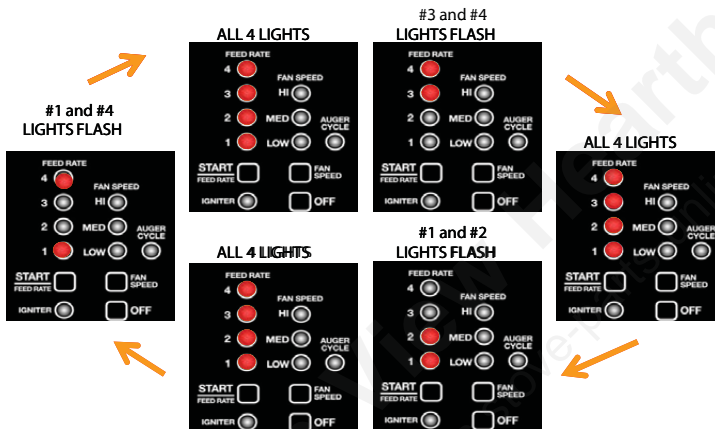
The new controller for your stove has a memory feature. Should you have a power outage or blip, the unit will come back on the setting that it was set to before.

This control is equipped with various functions. As a result, you need to check to make sure you are in the proper burn mode. Once your desired setting is reached, press the START button for operation.

To confirm the mode, press and hold in the OFF button. The feed rate lights will cycle as seen below. When the desired mode flashes release the OFF button and press start.

The 3 modes are as follows:

- HIGH/LOW THERMOSTAT MODE - when off button is released after #3 and 4 lights flash
- ON/OFF THERMOSTAT MODE - when off button is released after #1 and 2 lights flash
- MANUAL MODE - when off button is released after #1 and 4 lights flash



TRIM POTS (Fine tune adjustments)

FUEL FEED rates at the Lowest (#1 feed rate) and highest (#4 feed rate) settings can be set by adjusting the fine tune trim pots located on the control panel. To **raise fuel feed** turn the trim pot **counter** clockwise and to **lower the fuel feed** turn it **clockwise**.

FAN (combustion) TRIM: this trim may be used to raise or lower the amount of air moving through the burn grate for the cleanest burn, **ONLY** when the control is set on the LOW FEED RATE (#1). Only adjust this after the air inlet damper has been set during the high feed rate (#4).

NOTE: When adjusting the trim pots use a small precision screwdriver. The trim pots do not make a full rotation. If using a metal screwdriver be gentle as the plastic trim pot slot can be damaged or stripped.



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Vacuum Switch Installation Instructions



Parts Included

- 1 vacuum switch
- 1 mounting plate

PART NUMBER

KS-5090-1300

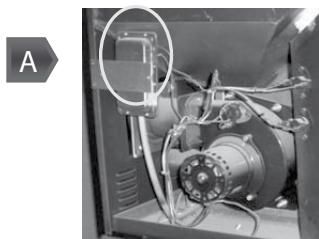
KS-5090-1310

Recommended Tools:

- 1/4" Hex nut setter & driver
- 1/4" Drill Bit & drill

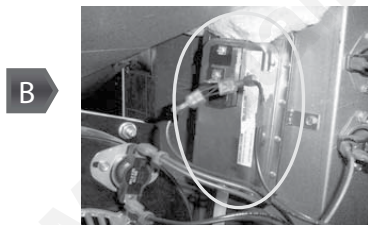
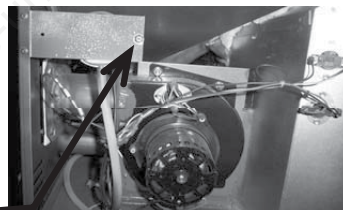
NOTE: Always Disconnect Power Before Performing Service Work

1. Disconnect the power supply to the stove and remove side panel.
2. Find the picture below that shows the vacuum switch that is currently in your stove and follow the instructions that go along with it. A, B, or C



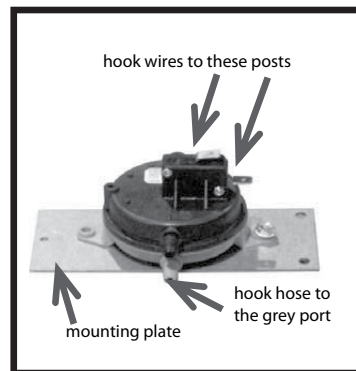
Instructions:

1. Remove hose and wires from old switch.
2. Remove screws from old vacuum switch
3. Separate the new vacuum switch from the mounting plate that comes with it
4. Attach hose to the GREY PORT on the new vacuum switch
5. Attach wires to new vacuum switch
6. Mount new switch onto metal plate as shown in the picture to the right (only one screw is necessary)

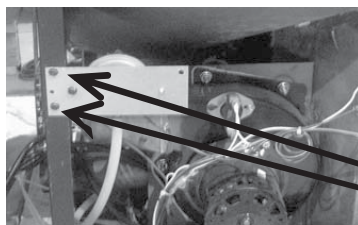
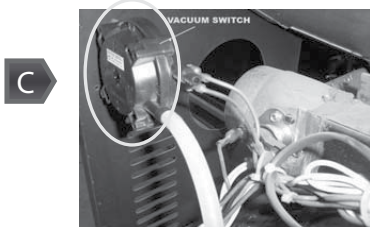


Instructions:

1. Remove hose and wires from old switch.
2. Remove screws
3. Drill 2 holes on back corner of stove to mount new switch and mounting plate.
4. Attach hose to the GREY PORT on the new vacuum switch
5. Attach wires to new vacuum switch
6. Mount new vacuum switch with metal plate onto stove as shown in the picture below



OR



holes need to be drilled here before plate can be mounted

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Hopper Lid Switch Installation Instructions



PART NUMBER
KS-5100-1342



Parts Included
1- Snap Switch

Recommended Tools:

- 7/16" Socket

NOTE: Always Disconnect Power Before Performing Service Work

Installation:

1. Remove left side panel
2. Unplug wire from snap switch
3. Remove two screws. Fig. A
4. Pull out metal box
5. Remove two screws and bolts holding hopper switch in place Fig. B
6. Remove the old hopper switch
7. Before inserting new hopper switch (A) bend the metal tab into a "U" so the "U" hits the clicker. Bend the angle such that the hopper lid forces the wire down (B). Fig. C & D
8. Reassemble the hopper lid switch by reversing steps 5 - 1

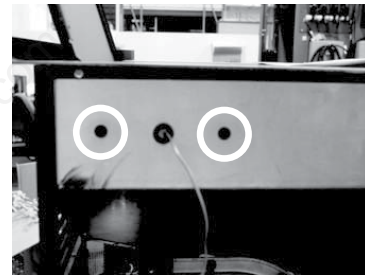
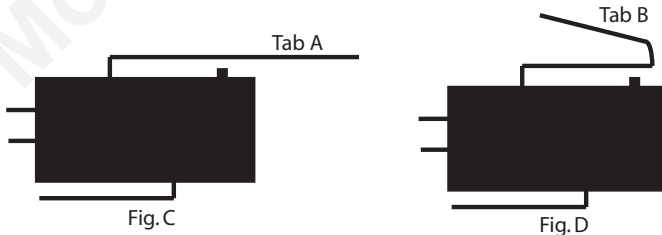


Fig. A



Fig. B



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Automatic Safety Features



L250 HIGH LIMIT SWITCH

Your pellet appliance has a high temperature limit switch installed. If the temperature at the back of the firebox reaches approximately 250°F., the switch will shut off the electricity going to the Vacuum Switch and to the Auger Motor. The auger will automatically stop, and the appliance will shut down when the exhaust temperature cools (120deg F). If this happens call your authorized dealer or Dansons Customer Service.

IT IS IMPORTANT TO FIND THE REASON WHY THE UNIT OVERHEATED

L120 LOW LIMIT SWITCH

This limit switch is mounted on the exhaust blower housing and has 2 main functions.

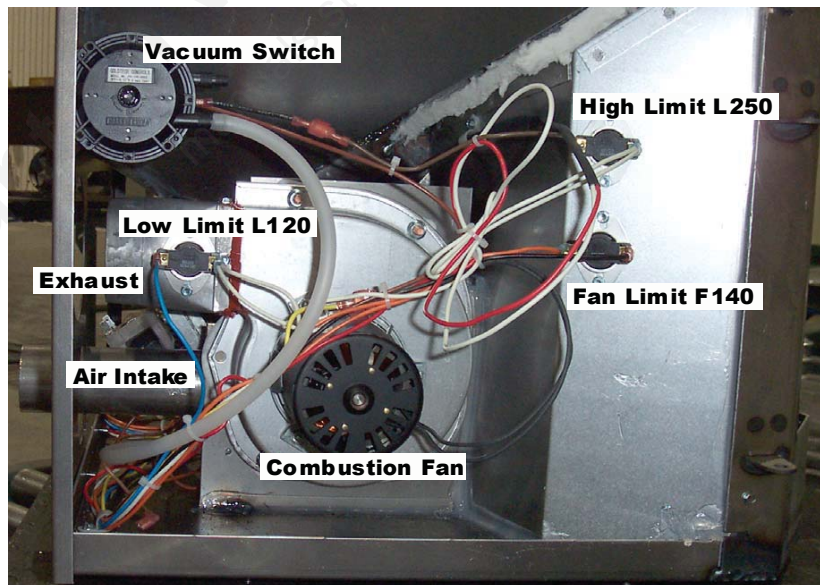
1. Should the fire happen to go out, for any reason, this limit switch will shut the stove off when the exhaust temperature drops below 120°F.
2. Upon starting the appliance, the AcuTron control board has a 15 minute "Lighting Mode", if the stove exhaust does not reach 120°F in that 15 minutes the stove will shut off. As soon as the stove exhaust does reach 120°F, the limit switch opens and the AcuTron enters a 5 minute "Safety Delay" mode.

F140 FAN LIMIT SWITCH

Your pellet appliance has a convection fan control limit switch. The room air fan's (F140) temperature limit snap switch automatically sets the fan on high when your stove is producing heat faster than the fan is carrying it into the room. This may occur when the heat control lever is set at [3 or 4] and the FAN SPEED is set to a very low or off setting. After the fan runs at this automatic high setting a few minutes, it may cycle back to its lower setting and may continue to cycle between [HIGH] and your selected setting. The circulation (room air) fan cycling from high to low is a normal condition as well as a safety feature of your appliance. To compensate for the fan cycling, adjust the FAN SPEED to a higher setting.

VACUUM SWITCH

This safety device (mounted on the back panel pillar) detects vacuum in the exhaust system, firebox, and air intake. If the exhaust blower fails, the vent pipe becomes plugged, the viewing door is open, or if you are out of pellets, this switch will sense that there is no airflow or lack of vacuum and will stop the auger from continuing to feed pellets.



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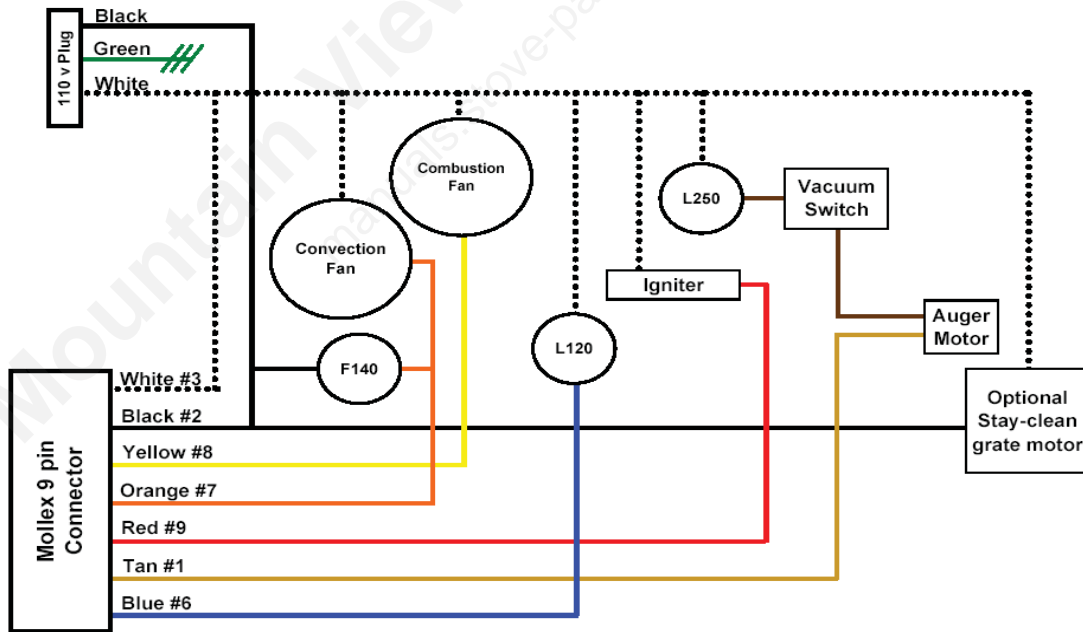
PELPRO TROUBLE SHOOTING MANUAL

ACUTRON 4 REPAIR PROCEDURES

Automatic Safety Features

ACU-TRON WIRING HARNESS

Connection	Wire Color	Connection Type	Termination	Lead From
Igniter	Red	White 2 Prong Male Plug	White Female Igniter Plug	Control Board
	White			Common
L250 Hi Limit Switch	White	Straight Female	Post	Common
	Brown	Straight Female	Post	Vacuum Switch
F140 Low Limit Switch	Black	Straight Female	Post	Sta-Clean Grate, Power cord
	Orange	Straight Female	Post	Convection fan
Vacuum Switch	Brown	Straight Female	Post	Auger Motor
	Brown	Straight Female	Post	Hi Limit Switch
Igniter Limit Switch	Blue	Straight Female	Post	Control Box
	White	Straight Female	Post	Common
Combustion Fan	Yellow	Straight Female	Fan Male Connector	Control Box
	White	Straight Male	Fan Female Connector	Common
Auger Motor	Tan	Straight Female	Post	Control Box
	Brown	Straight Female	Post	Vacuum Switch
Optional Sta-Clean Grate	Black	Straight Female	Male Connector	Power, Control Board, F140
	White	Straight Female	Male Connector	Common
Convection Fan	Orange	Straight Male	Fan Female Connector	F140
	White	Straight Female	Fan Male Connector	Common
Power Cord	White	Straight Male	Female Connector	Common
	Black	Straight Female	Male Connector	Control Board, Sta-clean Grate, F140



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Auger Shaft Assembly Installation Instructions



PART NUMBER
KS-5010-1020
KS-5010-1021
KS-5010-1030

Recommended Tools:

- 5/32" Allen Key
- Socket Driver
- Side Cutters or Knife
- 1/4" Hex Nut Setter
- RTV Silicone

NOTE: Always Disconnect Power Before Performing Service Work

Instructions:

1. Unplug the stove power cord from the wall outlet. Fig A
2. To gain access to the back of the appliance, remove the 1/4" hex screws from the four corners of the REAR SLOTTED ACCESS PANEL. This is located on the back lower side of the appliance. Fig B
3. Locate the position of the SET SCREW (F) located on the LOCK COLLAR (E). You will find it easier to service if the set screw is facing directly toward the combustion fan or left hand side panel. Fig D
4. You may have to plug the unit back in, Press the Start button to activate the auger motor. When the set screw is facing directly toward the left hand side panel, unplug the stove to stop the auger cycle.
5. Disconnect the two wires from the auger motor.
6. Loosen the SET SCREW (F) on the lock collar.
7. Remove the SET SCREW (B) completely from the auger mounting bracket. This is found on the control board side of the auger, and secures the auger motor to the auger feed tube. Fig E
8. Gently slide the motor backwards and away from the auger shaft and tube.



Fig A



Fig B

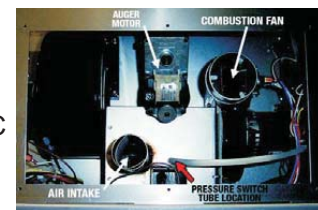


Fig C

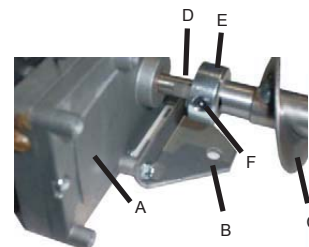


Fig D



Fig E

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PELPRO TROUBLE SHOOTING MANUAL

ACUTRON 4 REPAIR PROCEDURES

Auger Shaft Assembly

Instructions (Continued):

9. Scrap off red RTV silicone around auger shaft. Fig F
10. Open hopper lid & remove any existing pellets.
11. Remove auger cover plate by unscrewing 4 bolts. Fig G
12. Push auger shaft out of auger tube.
13. Remove first auger bushing from auger tube & replace.
14. Remove second auger bushing from auger shaft.
15. Replace auger shaft.
16. Re-assemble auger shaft by reversing steps 12-1.



Fig F



Fig G



Auger Bushing Locations

Super Grate Installation Instructions



Part Number
KS-5080-1240

NOTE: Always Disconnect Power Before Performing Service Work

Diagram A

The SUPER GRATE multi-Fuel Burn Grate comes in one piece: (B) and sits in the Burn Pot (A)

Diagram B

Ensure the Multi-Fuel Burn Grate (A) is properly seated in the burn pot and holes are free from obstructions. The burn grate front lip must sit firmly on the top of the burn pot.

Diagram B and C

You may need adjust the spacer tab (C) if the burn grate fits loosely in the burn pot or if the Igniter hole needs to be closer to the igniter. To do so grasp the burn grate adjustment tab (C) with a pair of pliers and bend it slightly inward or outward, until the burn grate top rest tightly onto the burn pot and grate fits firmly, with slight play, in the burn pot.

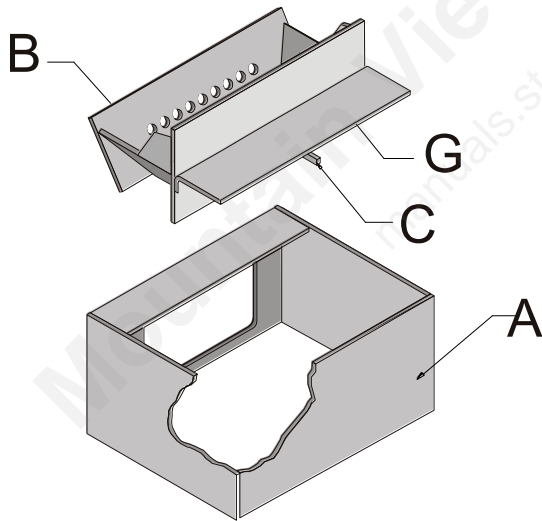


Diagram A

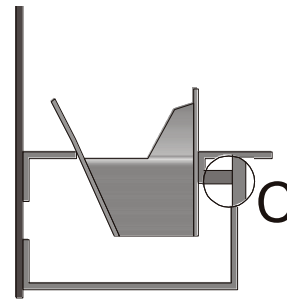


Diagram B

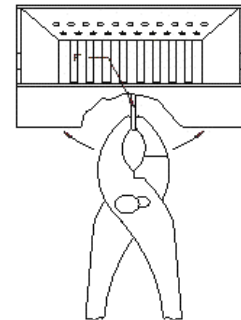


Diagram C

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Snap Disc Installation Instructions



Parts Included

- 1- Snap Switch
- 2- Screws
- 1- Bracket

PART NUMBER

- KS-5100-1320
- KS-5100-1330
- KS-5100-1340
- KS-5100-1321

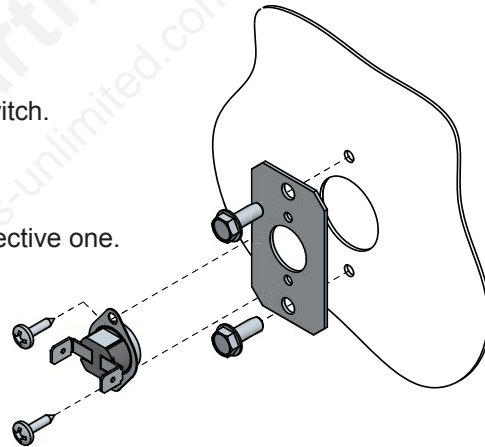
Recommended Tools:

- 7/16" Socket
- Philips Screw Driver

NOTE: Always Disconnect Power Before Performing Service Work

Installation:

1. Unplug stove's power chord from wall outlet.
2. Remove left side panel and locate defective snap switch.
3. Unplug power lead from defective snap switch.
4. Unscrew bolts from snap switch and remove the defective one.
5. Screw in bracket onto the unit.
6. Screw in bolts to hold snap switch in place.
7. Plug in power leads into snap switch.
8. Re-install left side panel and plug stove into wall outlet.



** For KS-5100-1340: When replacing a snap switch mounted to the exhaust blower on a pre-2013 unit an extra hole will need to be drilled and plugged with the original screw. -See photo-



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Feed Assembly Replacement Instructions



**PART NUMBER
KS-5010-1031**

Parts Included

- 1 - Auger shaft
- 1 - Fighting
- 1 - End cap bottom
- 1 - Feed motor and feed motor bracket
- 1 - Collar, set screw & jumper
- 2 - Bushings (upper & lower)

Recommended Tools:

- Phillips Screwdriver
- Pliers or 7/16" Wrench
- Hammer
- 5/16" Hex Nut Driver
- 5/32" Allen Wrench

NOTE: Always Disconnect Power Before Performing Service Work

Instructions:

1. Empty hopper and remove the 4 screws and cover plate. Fig. 1
2. Remove remaining pellets in feed assembly.
3. Unplug feed motor from wire harness. Fig. 2
4. Remove silicone from around bushing end cap. Remove 2 screws retaining the end cap to the feed tube. Fig. 3
5. From inside the hopper, lightly tap on the end cap alternating side to side to remove feed assembly from feed tube. Fig. 4
6. Reinstall new feed assembly in reverse order. Insure that the top feed bushing (Fig. 5) is in place and the bushing end cap is symmetrical in the feed tube prior to final tightening of the retaining screws. Silicone the end cap to the feed tube.

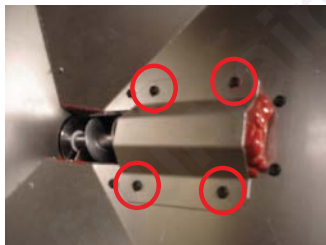


Fig. 1



Fig. 4



Fig. 2

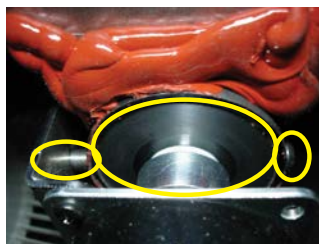


Fig. 3



Fig. 5

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Handle Assembly Installation Instructions



Parts Included

- 1- Stove Door Handle
- 1. Handle Latch
- 1- Nut
- 1- Washer
- 1- Rolled Spacer

PART NUMBER

KS-5140-1448

KS-5140-1140

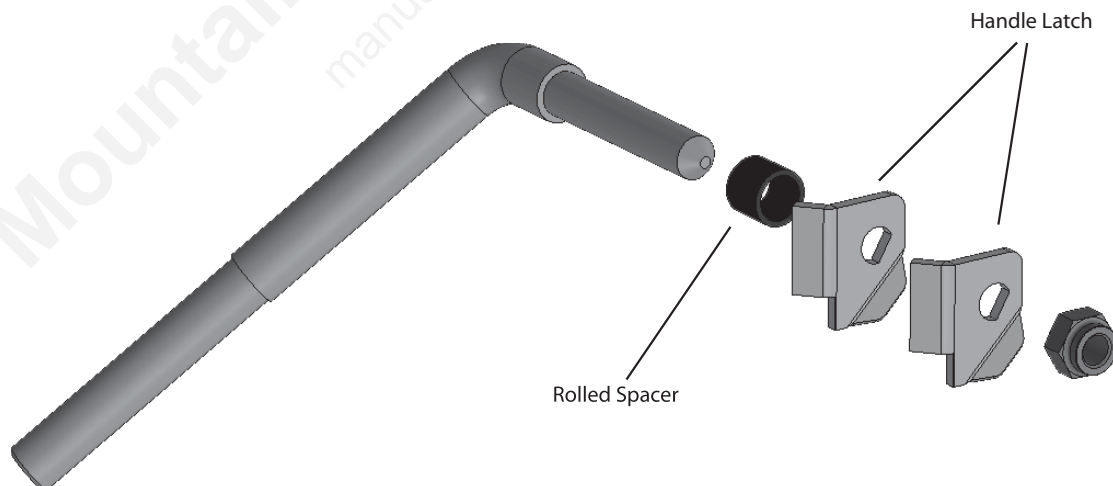
Recommended Tools:

- 3/8" Allen Wrench

NOTE: Always Disconnect Power Before Performing Service Work

Instructions:

1. Open the door.
2. Remove nut.
3. Remove handle latch (2), rolled spacer, and washer.
4. Remove door handle & replace.
5. To reassemble, follow steps 3-1 in reverse order.



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PELPRO TROUBLE SHOOTING MANUAL
ACUTRON 4 STOVES & INSERTS

ACUTRON 4 SPECIFICATIONS

HOME

WATTS: EXHAUST BLOWER CONVECTION BLOWER IGNITER FEED MOTOR	55w 288w 300w 15w
AMPS: EXHAUST BLOWER CONVECTION BLOWER IGNITER FEED MOTOR	1.0A 2.4A 2.5A 125mA
CONVECTION BLOWER VOLTS: LOW TO HIGH (VAC)	70v to 120v
EXHAUST BLOWER VOLTS: LOW MEDIUM MEDIUM HIGH HIGH	80v 90v 100v 120v
FEED MOTOR CYCLE TIMES: (feed motor is always on for 3 seconds) LOW MEDIUM MEDIUM HIGH HIGH	13 to 21 sec 10.5 sec 9 sec 7 to 10 sec
BTU INPUT: LOW MEDIUM MEDIUM HIGH HIGH	10,500 50,000
CONVECTION BLOWER CFM:	250

Note: stove was plugged into a 120V outlet. Voltages can vary depending on volts from the outlet.

PELPRO TROUBLE SHOOTING MANUAL

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PELPRO TROUBLE SHOOTING MANUAL



TROUBLE SHOOTING MANUAL

PP60 & PP130



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 PARTS LIST

HOME

BAFFLE KIT.....SRV7079-006

BLOWERS:

EXHAUST BLOWER (1).....SRV7000-585
 CONVECTION BLOWER (PP60) (2).....SRV7000-659
 CONVECTION BLOWER (PP130) (3).....KS-5020-1052

CONTROL BOARD (PP60) (4).....SRV7079-050
 CONTROL BOARD (PP130) (4).....SRV7077-050

DIAL CONTROL (5).....SRV7083-036

DOOR PARTS:

COMPLETE DOOR ASSY.....SRV7083-021
 GLASS (9" X 12.5").....SRV7081-173
 HINGE PINS.....433-1590/2
 LATCH HANDLE ASSY.....KS-5140-1448
 PHENOLIC HANDLE (BLACK).....KS-5140-1442
 CAM LATCH ONLY.....KS-5140-1446

FEED MOTOR ASSY (6).....SRV7077-014
 FEED MOTOR ONLY (ROUND).....SRV7000-670
 FEED ASSY PULL PIN.....7000-601/10

FIREPOT PARTS:

FIREPOT (7).....SRV7077-003
 IGNITER (300W) (8).....SRV7000-660

GASKETS:

DOOR GASKET (3/4" X 84").....832-1680
 EXH BLOWER GASKET.....812-4710
 GLASS GASKET (3/4" X 10').....240-0290/10

HOPPER LID SWITCH.....SRV7000-612

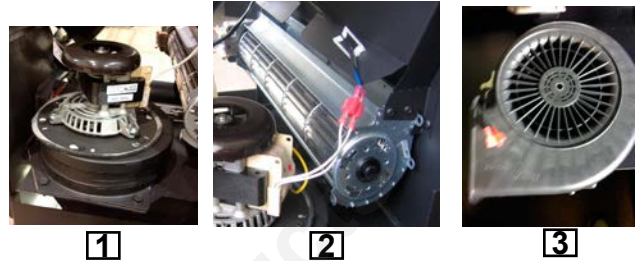
PROBES:

AMBIENT TEMPERATURE (9).....SRV7000-668
 EXHAUST TEMPERATURE.....SRV7000-669

SNAP DISC, HIGH LIMIT (L200).....SRV230-0080

WIRE HARNESS.....SRV7093-184

VACUUM SWITCH (10).....SRV7000-531



1

2

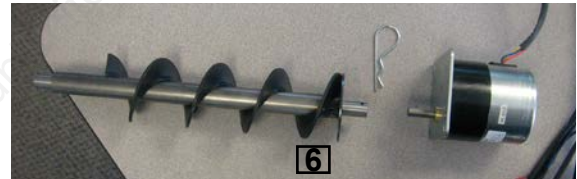
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4



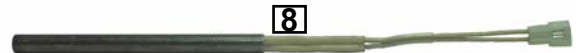
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6



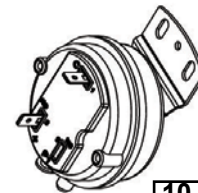
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8



9



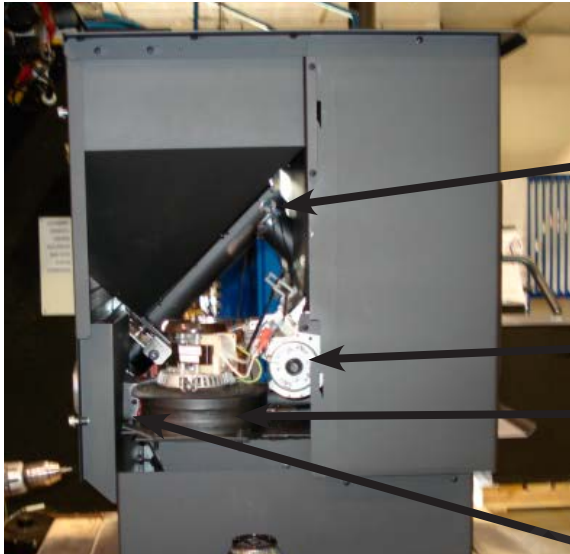
10

PELPRO TROUBLE SHOOTING MANUAL

PP60 PART LOCATIONS

HOME

LEFT SIDE



OVER HEAT SNAP DISC

CONVECTION BLOWER

EXHAUST BLOWER

FEED MOTOR

RIGHT SIDE



DIAL CONTROL

VACUUM SWITCH

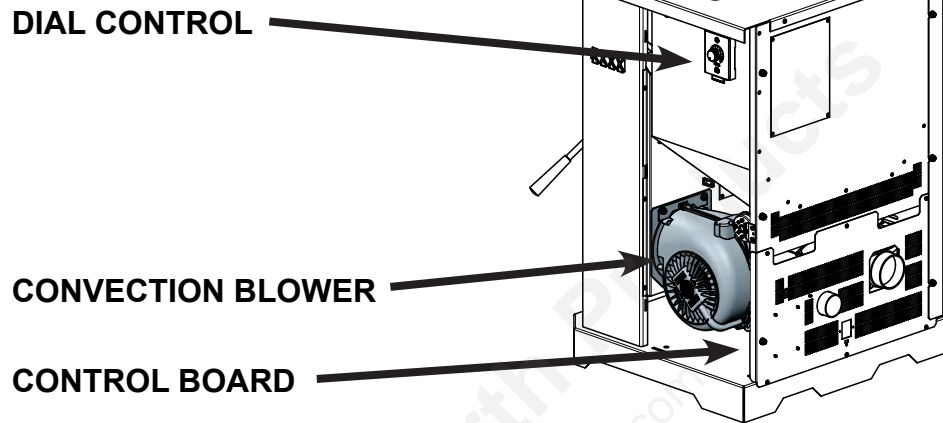
CONTROL BOARD

PELPRO TROUBLE SHOOTING MANUAL

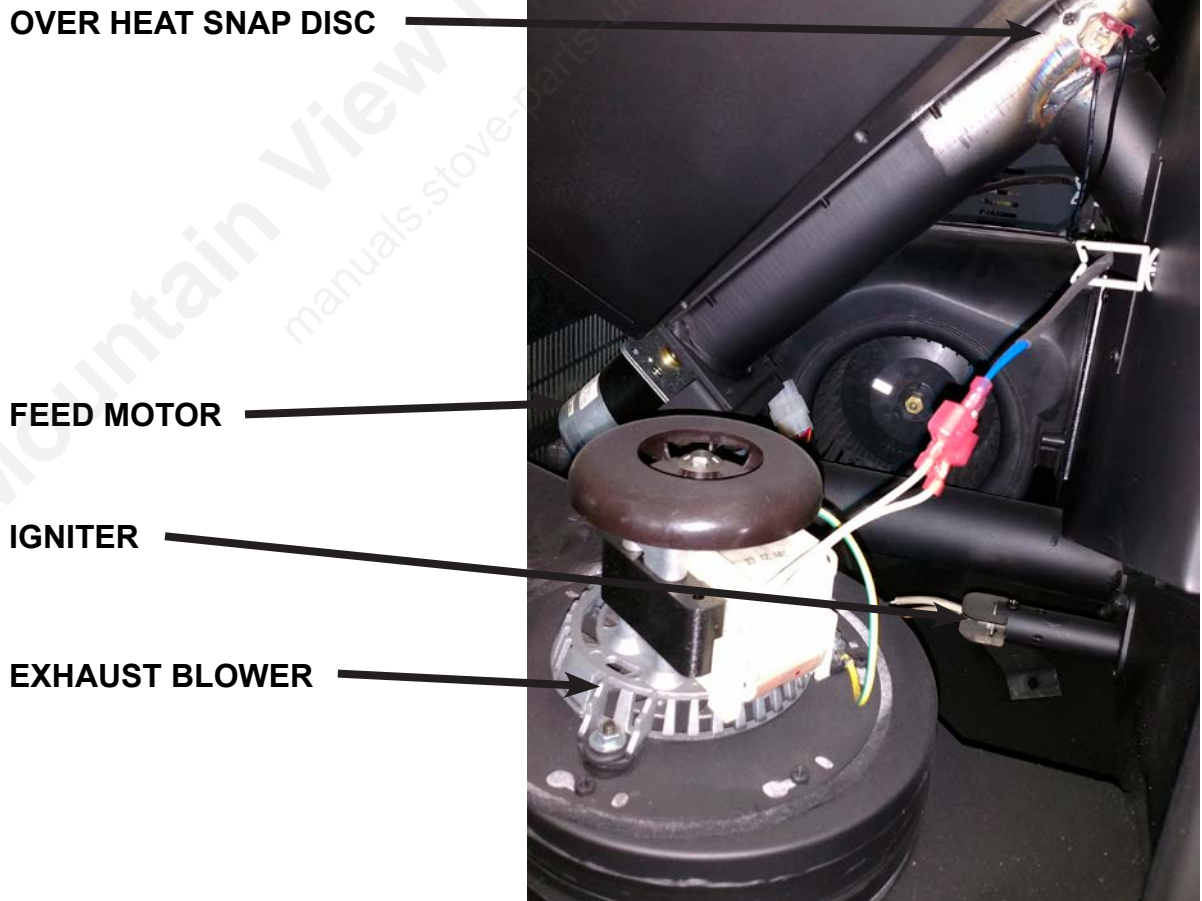
PP130 PART LOCATIONS

HOME

RIGHT SIDE



LEFT SIDE



PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 OPERATION FLOW CHART

HOME

1: Set dial control to desired temperature.
(green light on dial control will change from a slow blink to rapid blink)



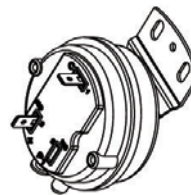
2: Exhaust blower turns on.



3: Igniter turns on.



4: Vacuum switch closes.



5: Feed motor will turn on after the 1 min igniter preheat sequence expires. Initial feed will be for 60 seconds and stop.



6: Pellets ignite in the firepot.



PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 OPERATION FLOW CHART

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

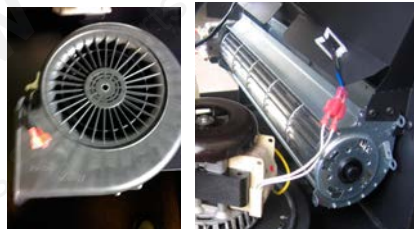


8: Igniter turns off.



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

10: Convection blower turns on and increases speed as the unit 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.

FEED RATES: (7 second cycle)

	<u>PP60</u>	<u>PP130</u>
Power level 1:	0.9 sec "on time"	1.0 sec "on time"
Power level 2:	1.3 sec "on time"	1.6 sec "on time"
Power level 3:	1.6 sec "on time"	2.2 sec "on time"
Power level 4:	2.0 sec "on time"	2.8 sec "on time"
Power level 5:	2.4 sec "on time"	3.5 sec "on time"

12: Set temperature is met.



PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 OPERATION FLOW CHART

HOME

13: Feed motor turns off.



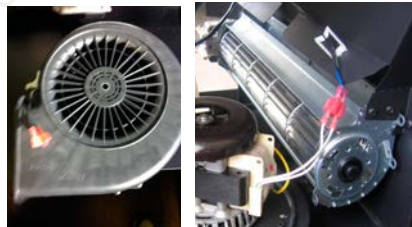
14: Exhaust blower starts the shutdown cycle. Blower will run at maximum rpm. Dial control will show a rapid yellow blink.



15: Fire goes out in the firepot. Unit will continue to cool.



16: Exhaust probe drops below 140 degrees and shuts the convection blower off.



17: 12 minute shutdown timer expires and the exhaust blower shuts off.



18: End of the cycle. Green light on the dial control will go to the slow "ready" blink.





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 unit 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. Unit failed to light the fuel or read a rise in temperature.

8 RED BLINKS

Exhaust temperature over heat alarm. Unit got too hot. Check the heat exchanger and exhaust system for obstructions.

PP60/130 PELLET STOVE TROUBLE-SHOOTING

ALARM CODE

T/S CHART

1 FLASH: EMPTY HOPPER.....	(PAGE 59)
2 FLASHES: EXHAUST PROBE FAIL.....	(PAGE 67)
3 FLASHES: AMBIENT PROBE ALARM.....	(PAGE 65)
4 FLASHES: MISSED IGNITION.....	(PAGE 63)
8 FLASHES: EXHAUST OVER TEMPERATURE.....	(PAGE 55)

SYMPTOM

NOT FEEDING PELLETS.....	(PAGE 73)
NOT LIGHTING THE FUEL.....	(PAGE 69)
LAZY OR SOOTY FLAMES.....	(PAGE 57)
NO POWER.....	(PAGE 75)
CONVECTION BLOWER NOT COMING ON.....	(PAGE 53)
EXHAUST BLOWER NOT COMING ON.....	(PAGE 71)
UNIT IS NOT SENSING TEMP IN THE ROOM.....	(PAGE 65)
FIREBOX VACUUM LOW OR VAC SWITCH NOT WORKING.....	(PAGE 61)
DIAL CONTROL NOT WORKING.....	(PAGE 77)

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

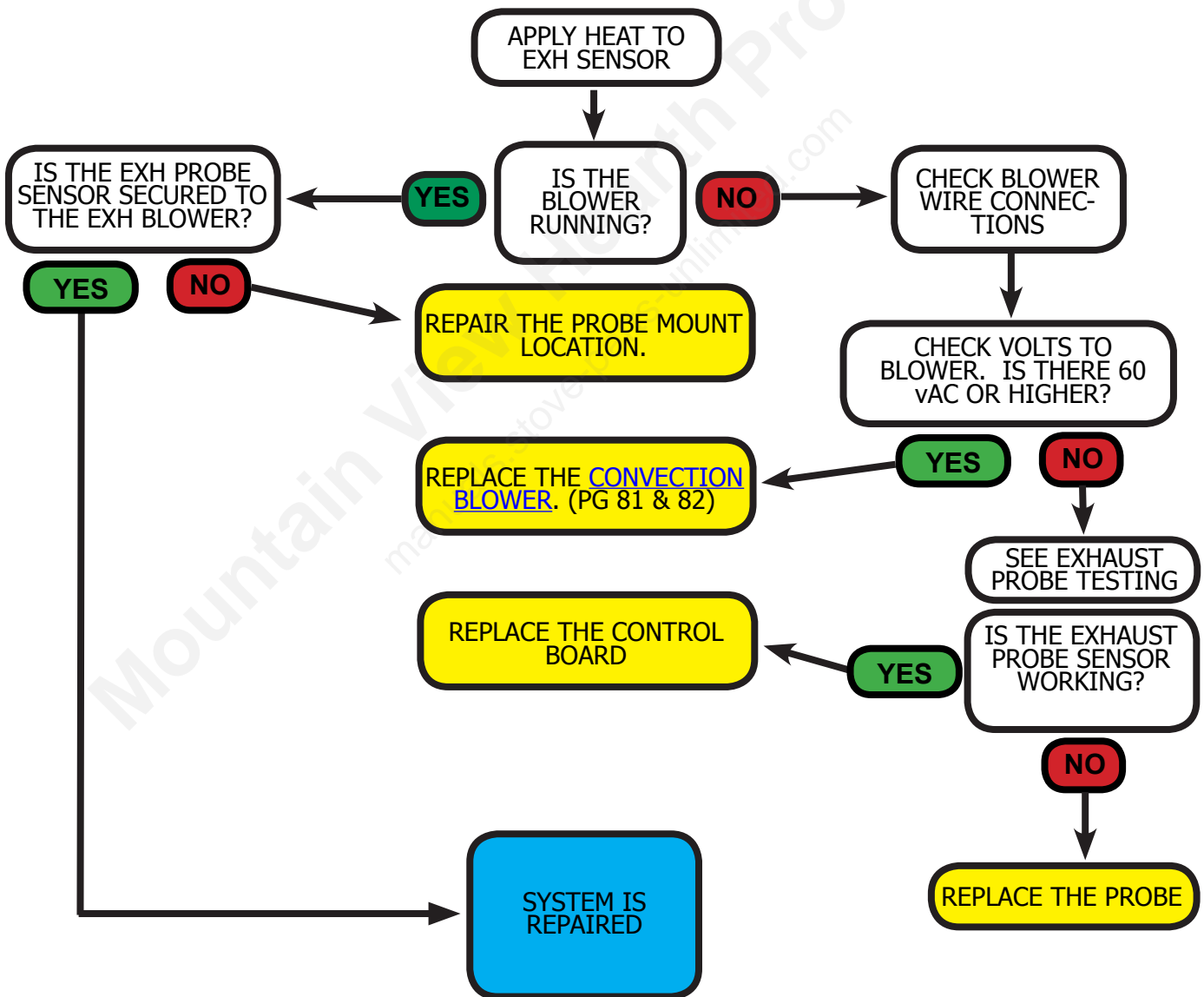
WARNING!
ALWAYS UNPLUG THE STOVE BEFORE CLEANING, REPLACING COMPONENTS, RESETTING SNAP DISCS AND CHECKING WIRE CONNECTIONS.

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

CONVECTION BLOWER TROUBLE-SHOOTING

HOME

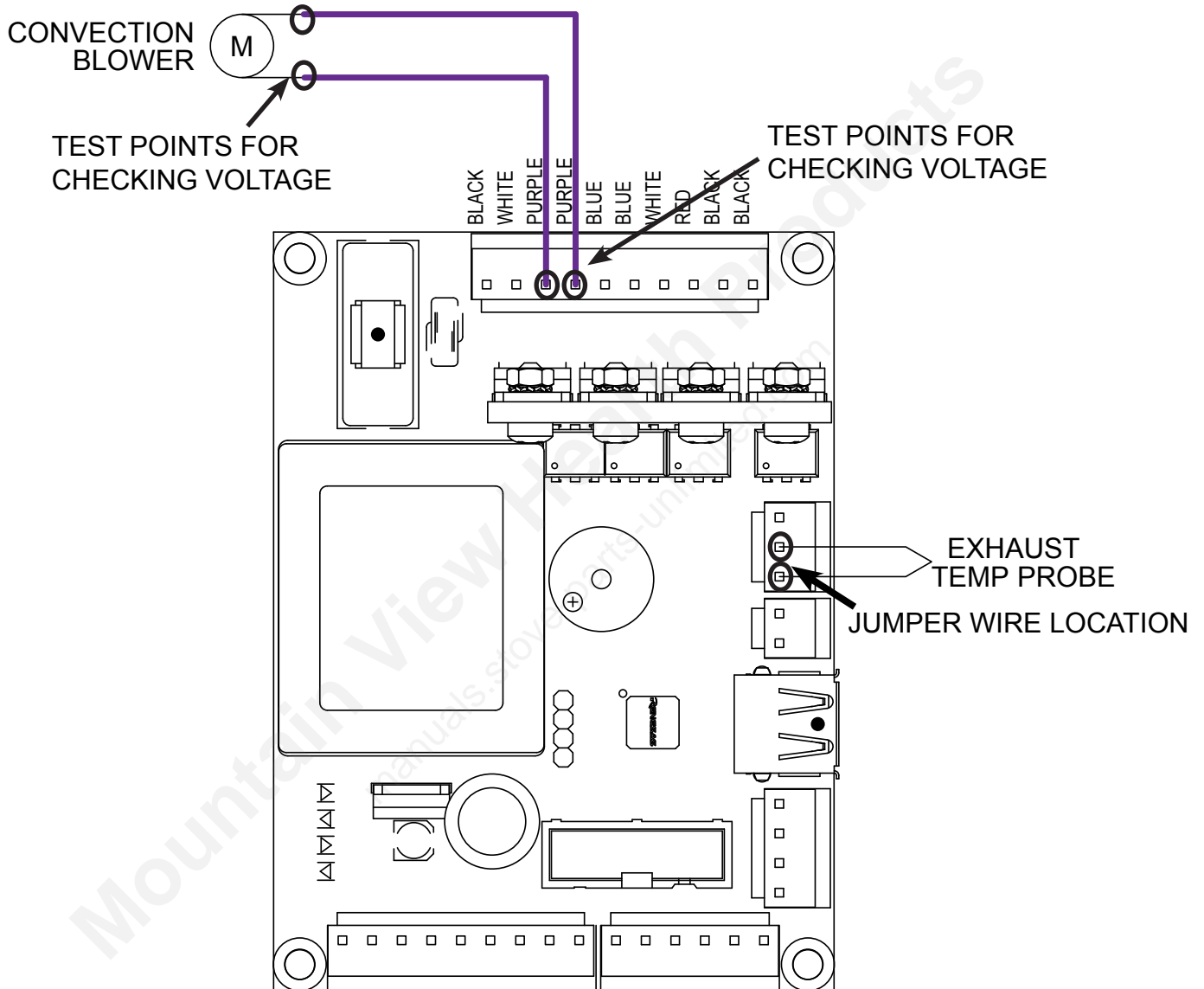
TECH TIP:
INSTALLING A JUMPER WIRE
ON THE EXHAUST PROBE
CONNECTION ON THE
BOARD WILL ALSO TURN
THE CONVECTION BLOWER
ON.



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

CONVECTION BLOWER TROUBLE-SHOOTING

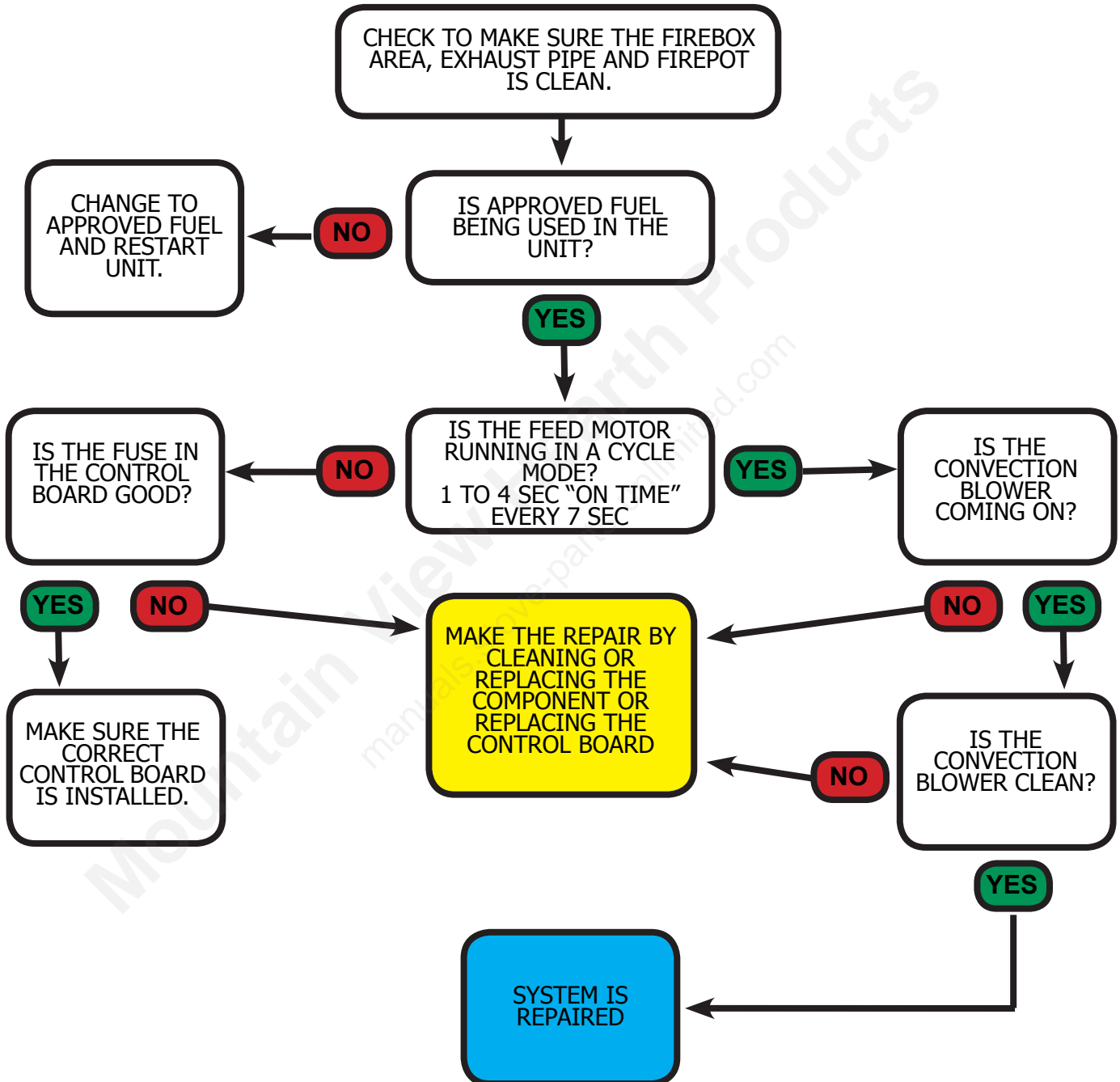


CONVECTION BLOWER VOLTS RANGE: 62VAC TO 115VAC (+/- 5VAC)
(POWER LEVEL 1 TO POWER LEVEL 5)

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

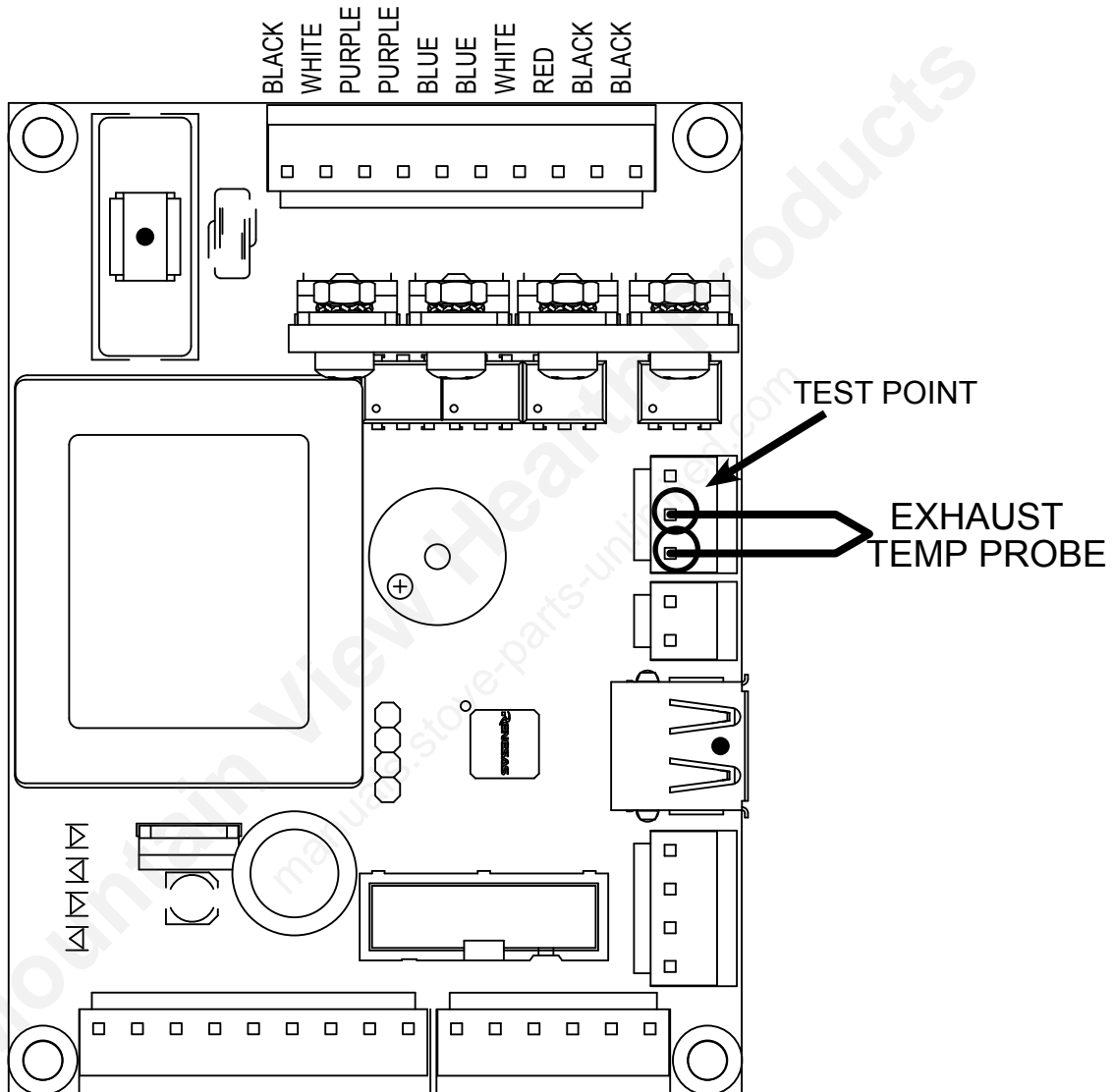
HOME

8 FLASHES: EXHAUST OVER TEMPERATURE



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

8 FLASHES: EXHAUST OVER TEMPERATURE

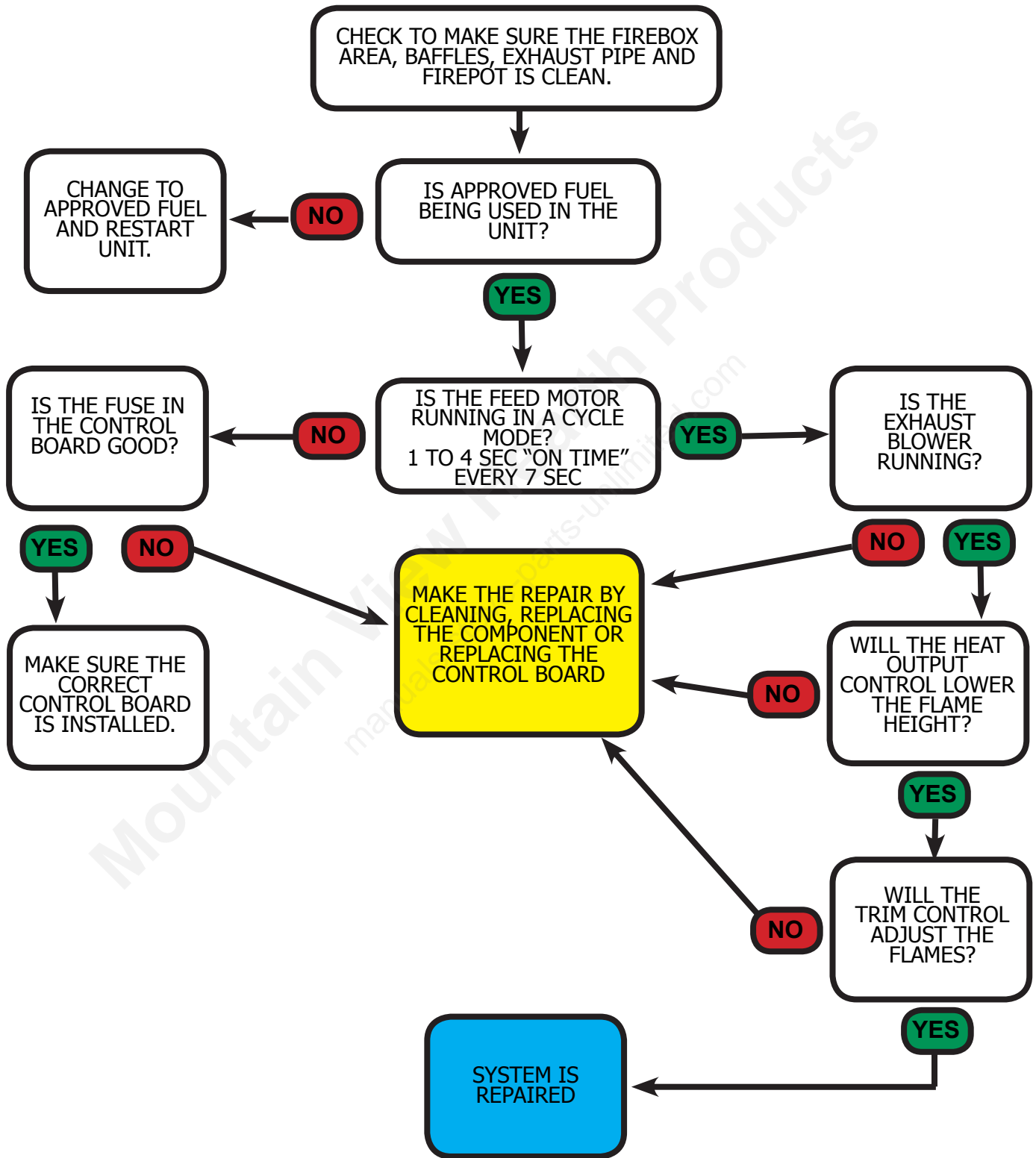


AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

LAZY OR SOOTY FLAMES

HOME

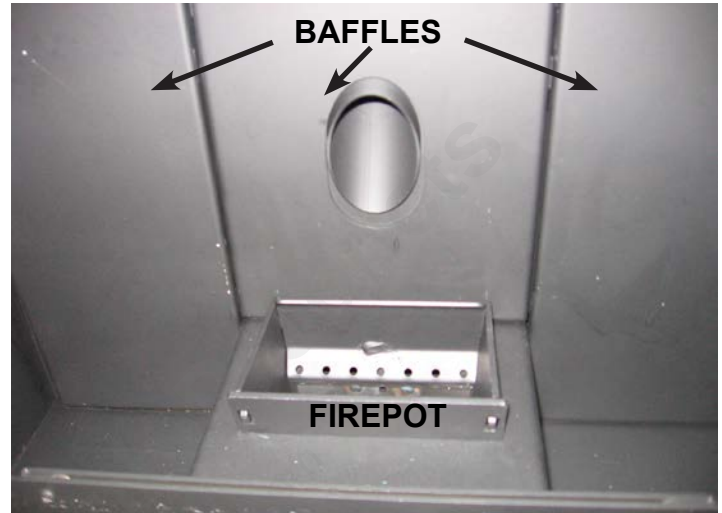


PELPRO TROUBLE SHOOTING MANUAL

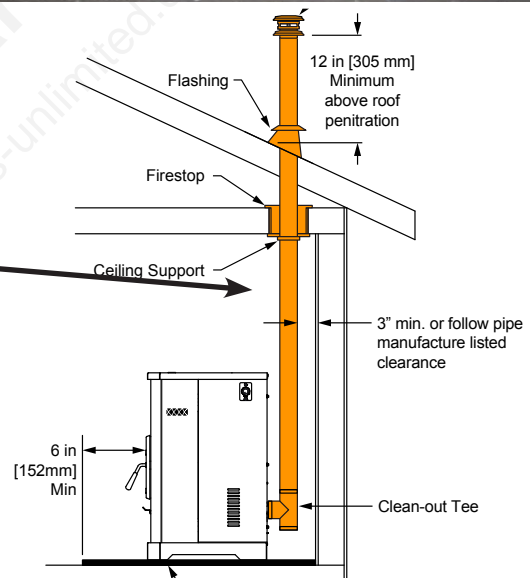
PP60 & PP130 STOVES

LAZY OR SOOTY FLAMES

1) CLEAN FIREPOT AND BAFFLES



2) CLEAN THE VENT SYSTEM



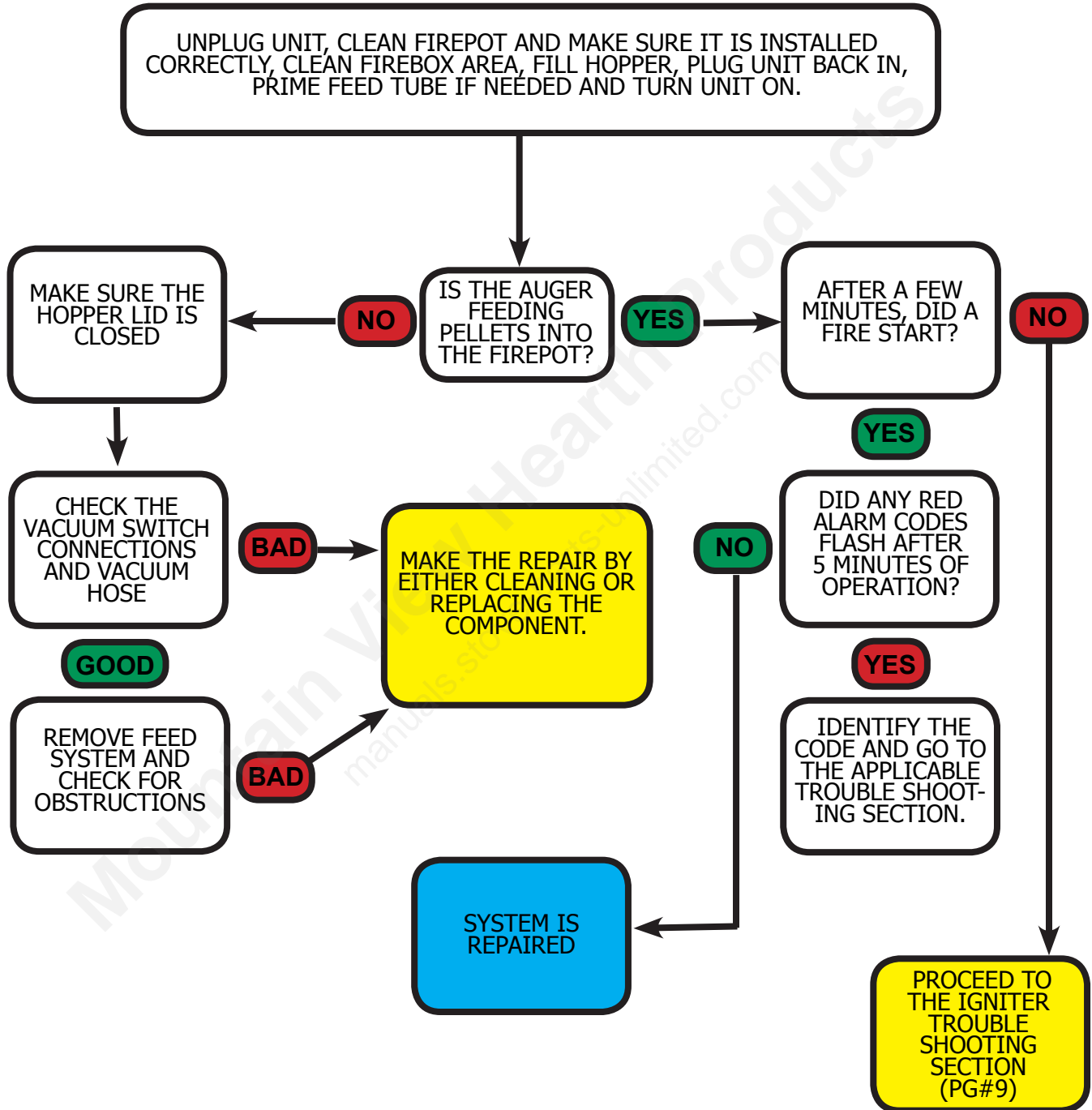
3) CLEAN THE EXHAUST BLOWER



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

1 FLASH: EMPTY HOPPER

HOME

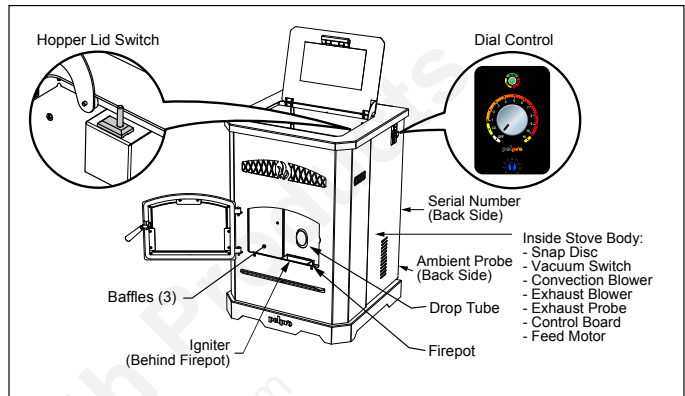


PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

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.



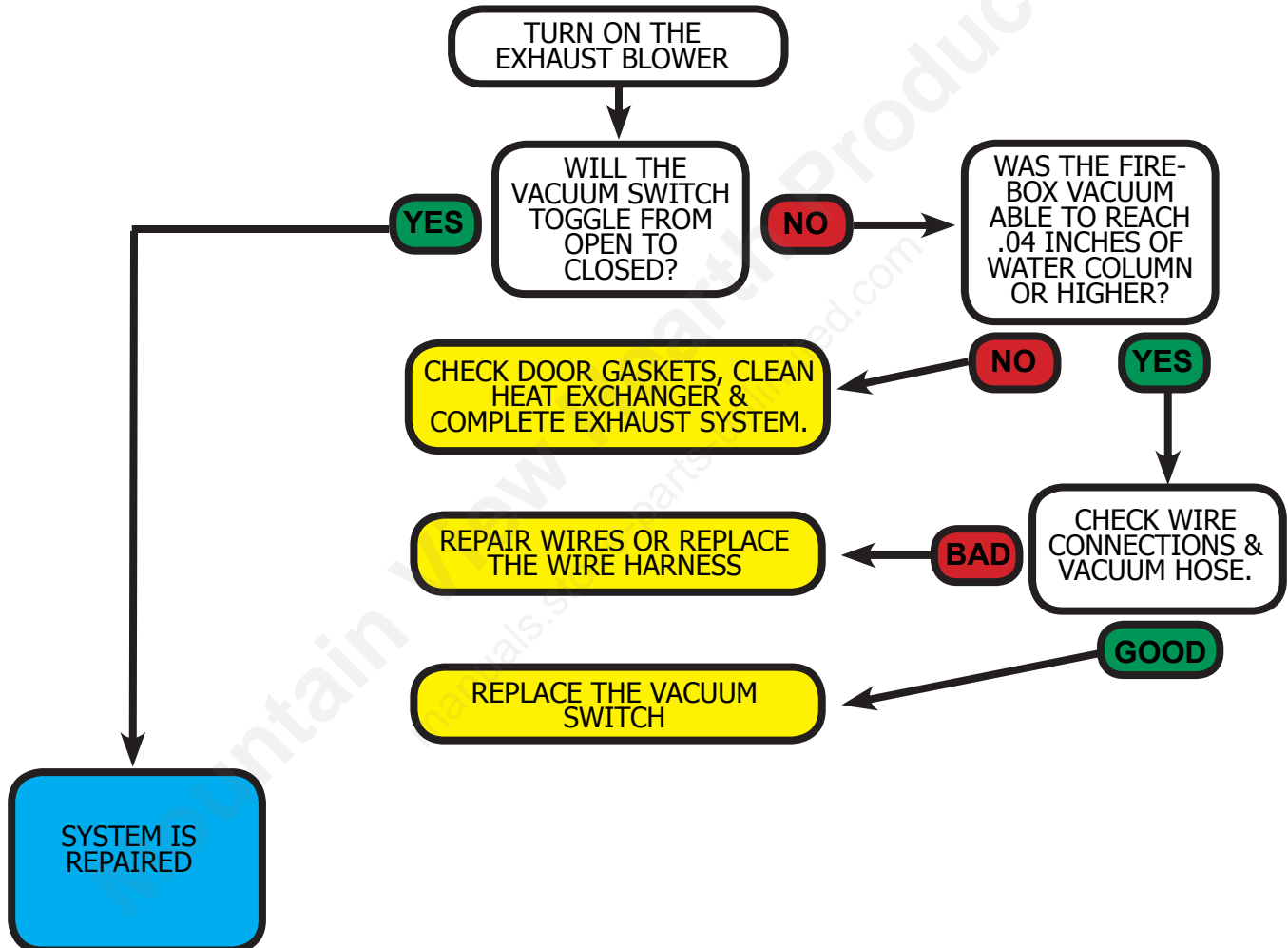
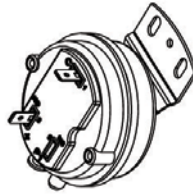
PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

FIREBOX VACUUM & VACUUM SWITCH TROUBLE-SHOOTING

HOME

VACUUM SWITCH PART #
SRV7000-531



VACUUM SPECS WITH DIAL CONTROL ON "0" TRIM:

COLD STOVE, 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

PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

FIREBOX VACUUM & VACUUM SWITCH TROUBLE-SHOOTING

STEP 1) INSTALL A VACUUM "T" BETWEEN THE VACUUM SWITCH AND DROP TUBE.

STEP 2) INSTALL THE VACUUM GAUGE TO THE "TEE".

STEP 3) DISCONNECT THE CONNECTOR FOR THE HALL SENSOR FROM THE CONTROL BOARD.

**note: This will allow the blower to run at MAX speed.

STEP 4) 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.*

STEP 5) 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 STOVE & NO FIRE).

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

TECH TIPS:

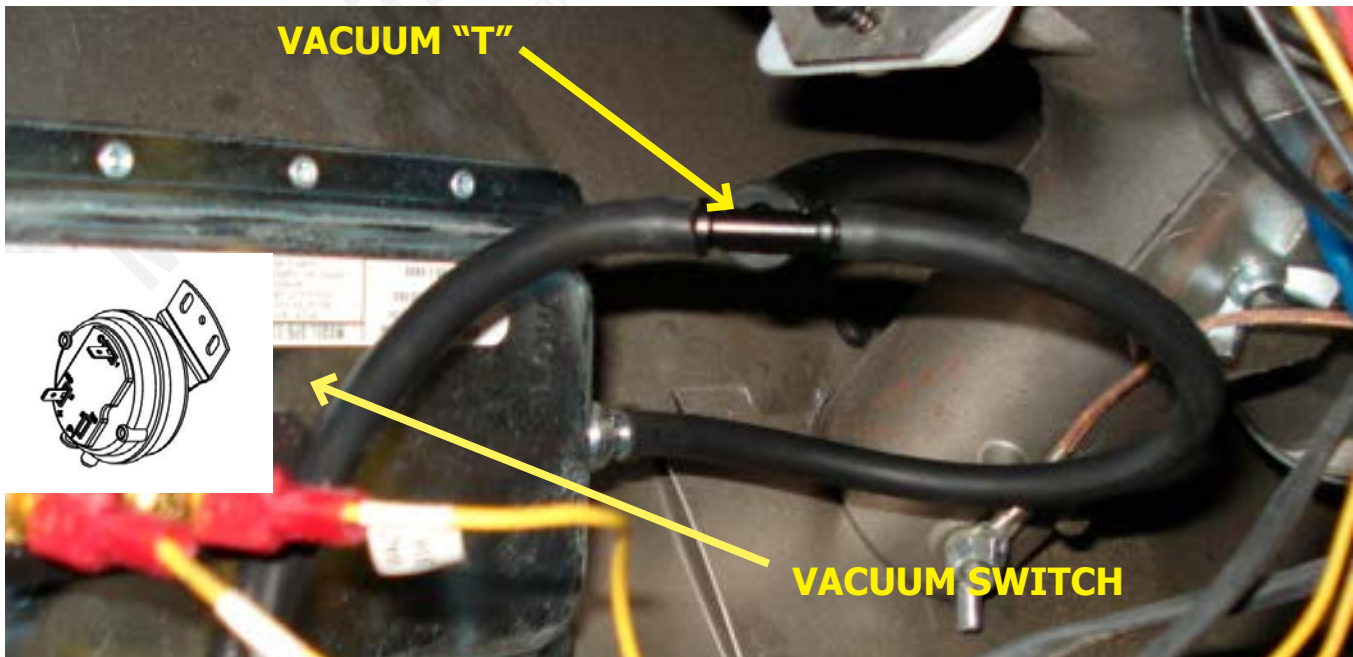
Low vacuum can be the result of a leaking door gasket, firepot not closing all of the way, dirty heat exchanger, or plugged vent system.

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



(VACUUM GAUGE)

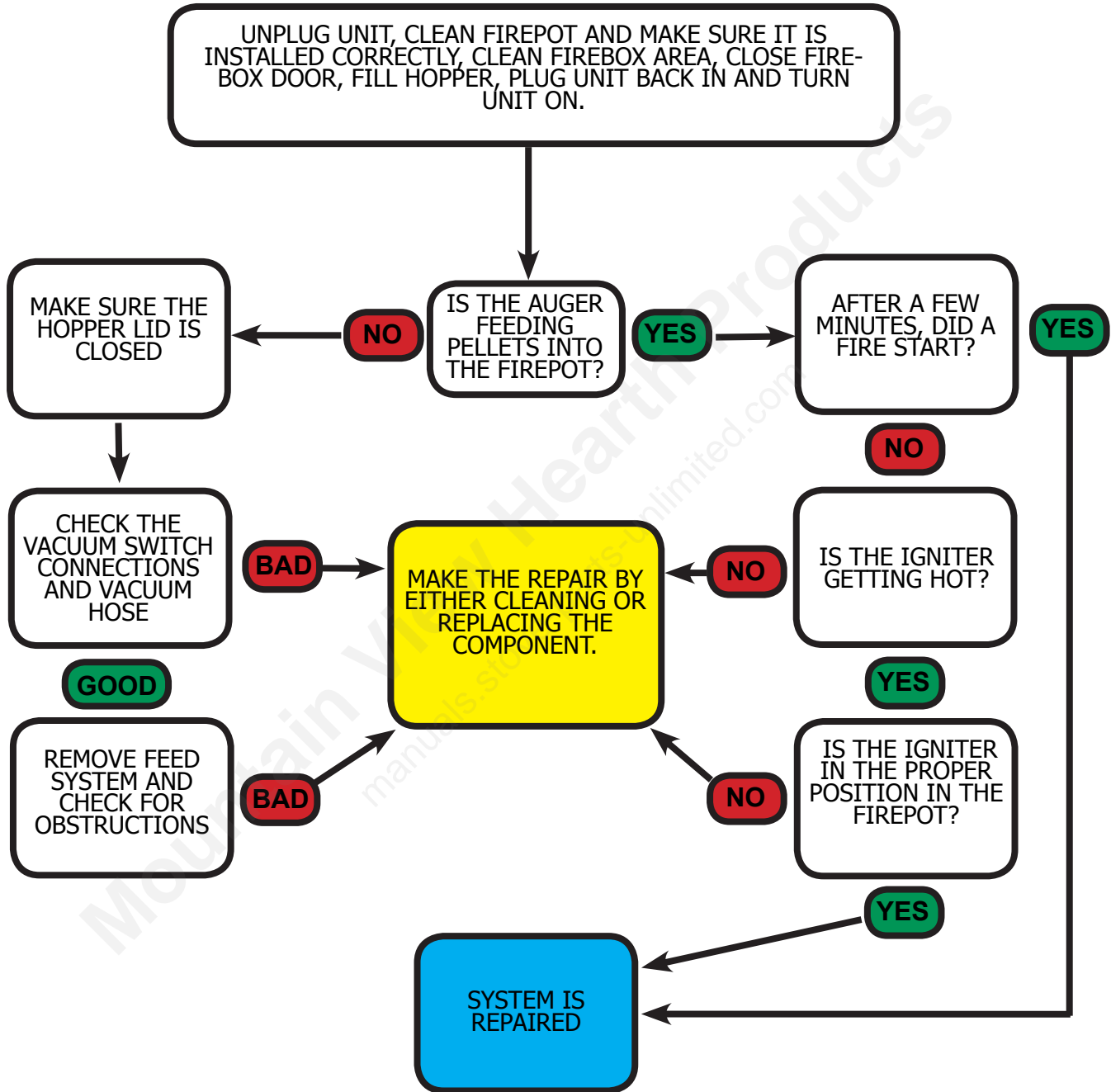
RED= LOW VACUUM
GREEN= OPERATING RANGE
BLUE= SHUTDOWN



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

4 FLASHES: MISSED IGNITION

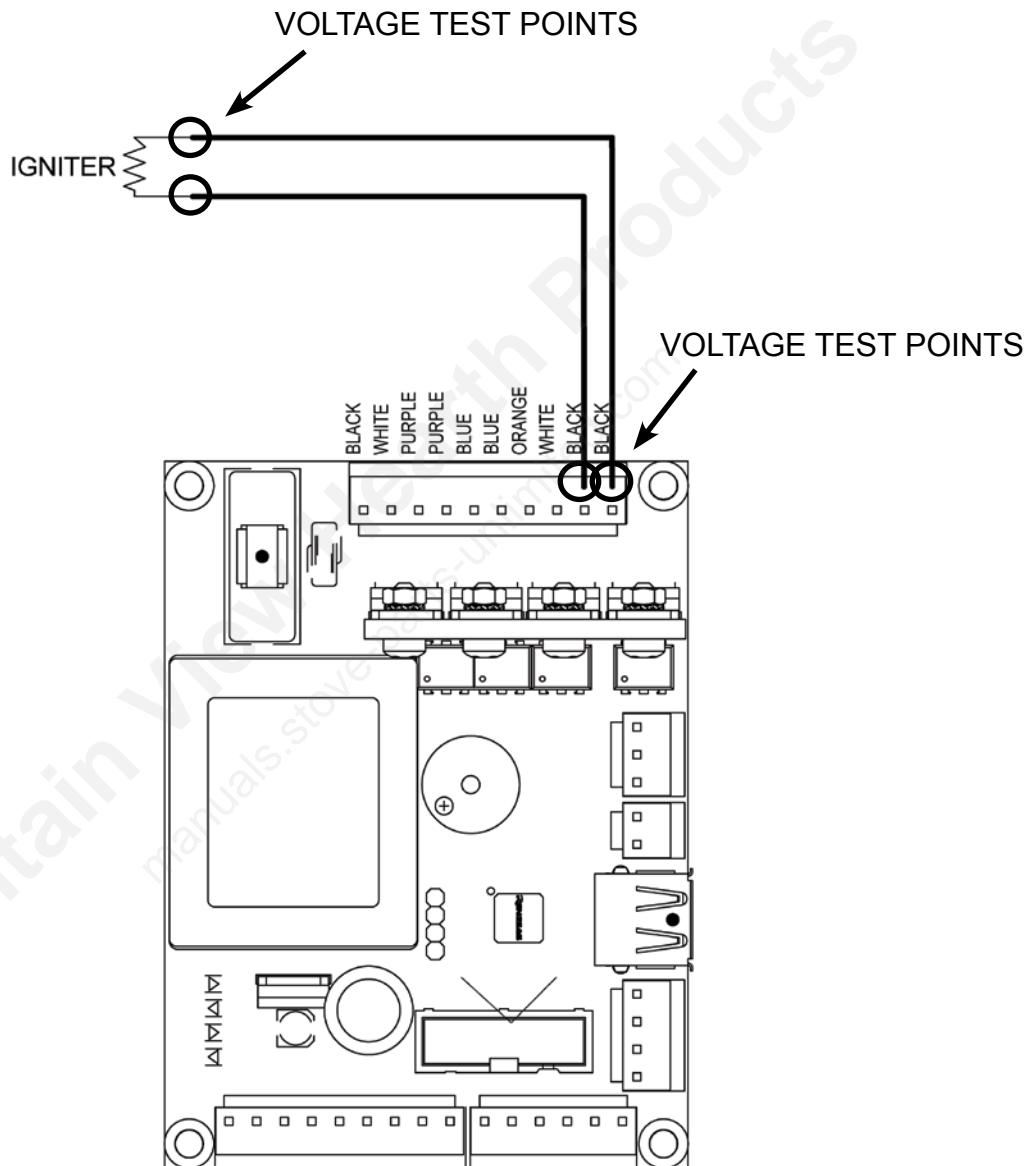
HOME



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

4 FLASHES: MISSED IGNITION

IGNITER TROUBLE-SHOOTING



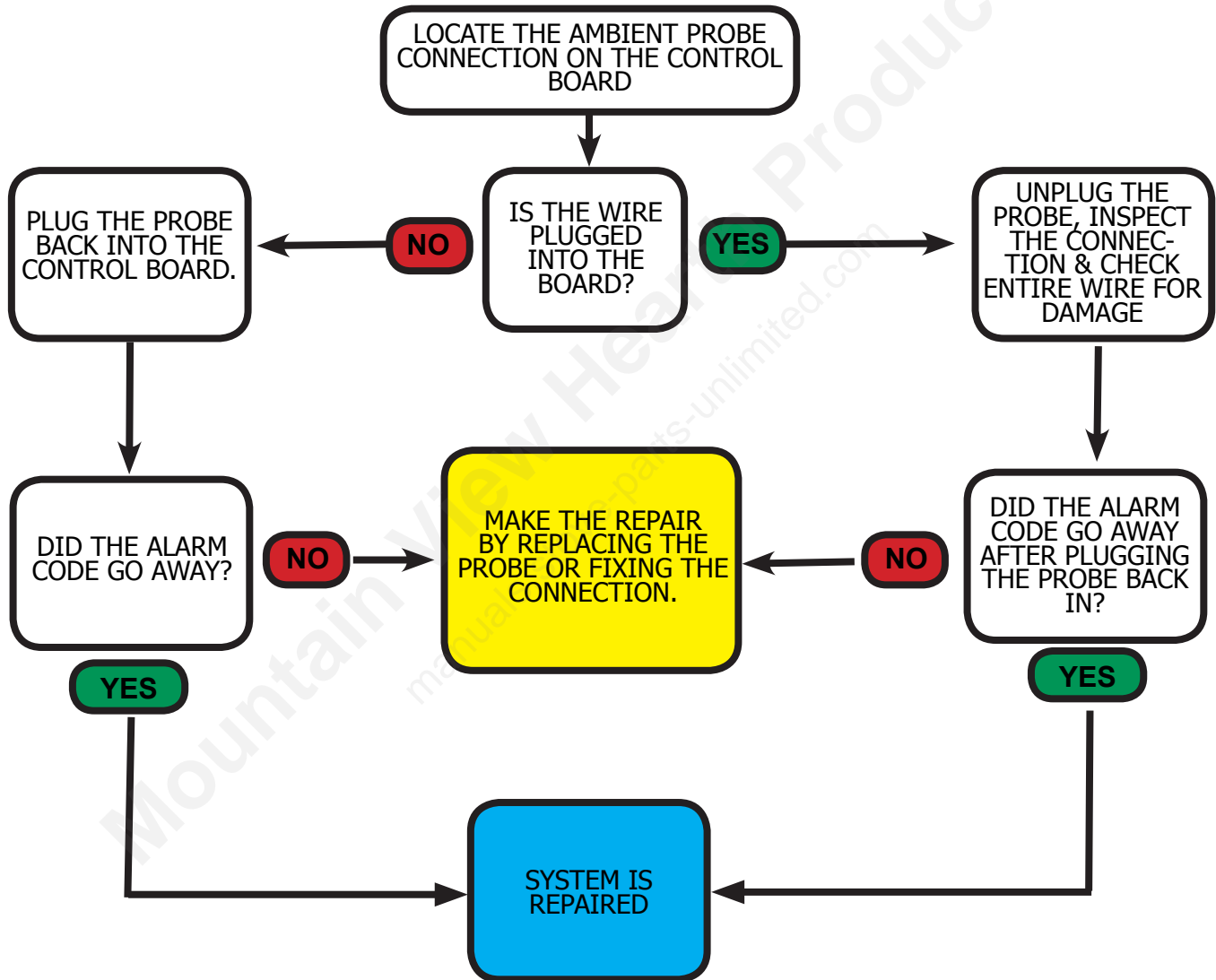
IGNITER SPECS:
300W /// 115 VAC
RESISTANCE: 48 OHMS

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

3 FLASHES: AMBIENT PROBE ALARM

HOME

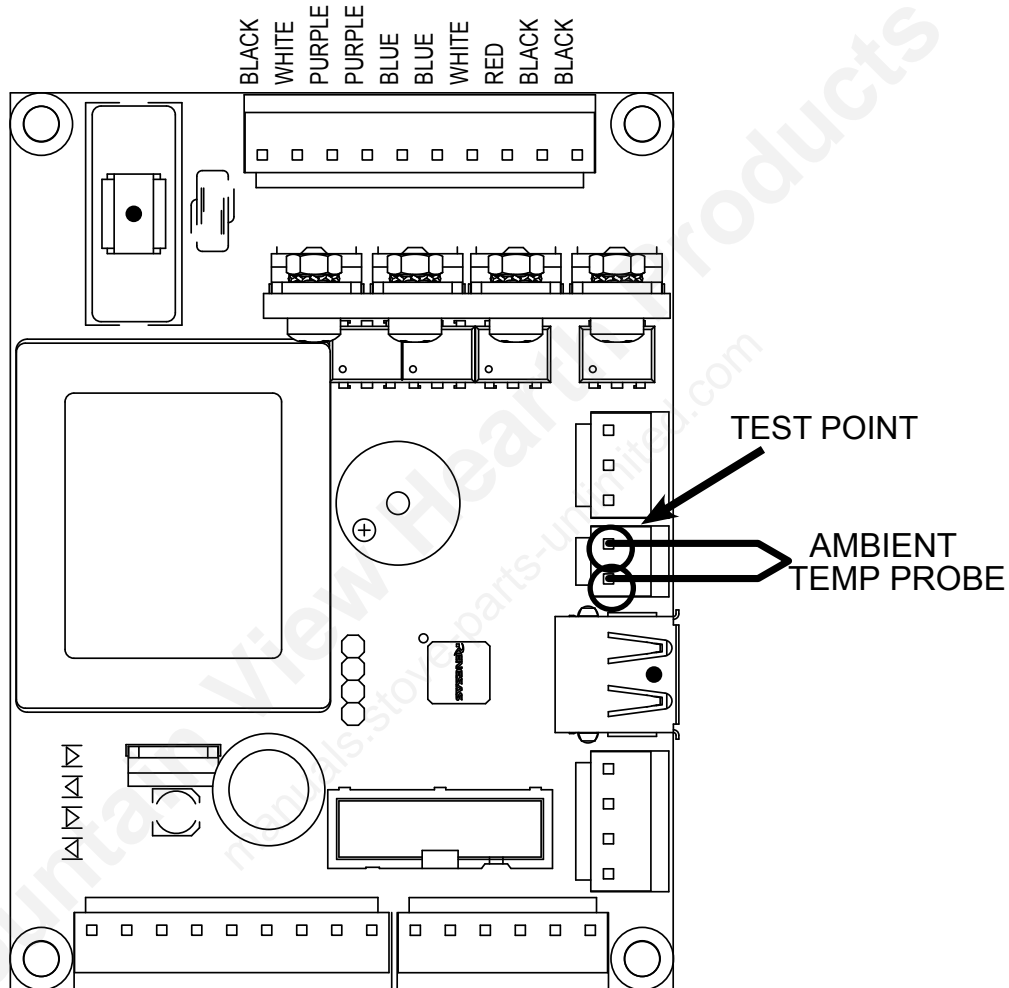
TECH TIP:
THE PROBE WILL SENSE TEMPERATURE IN THE ROOM. IF THE UNIT IS CYCLING TOO MUCH, MOVE THE PROBE FARTHER AWAY FROM THE STOVE.



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

3 FLASHES: AMBIENT PROBE ALARM

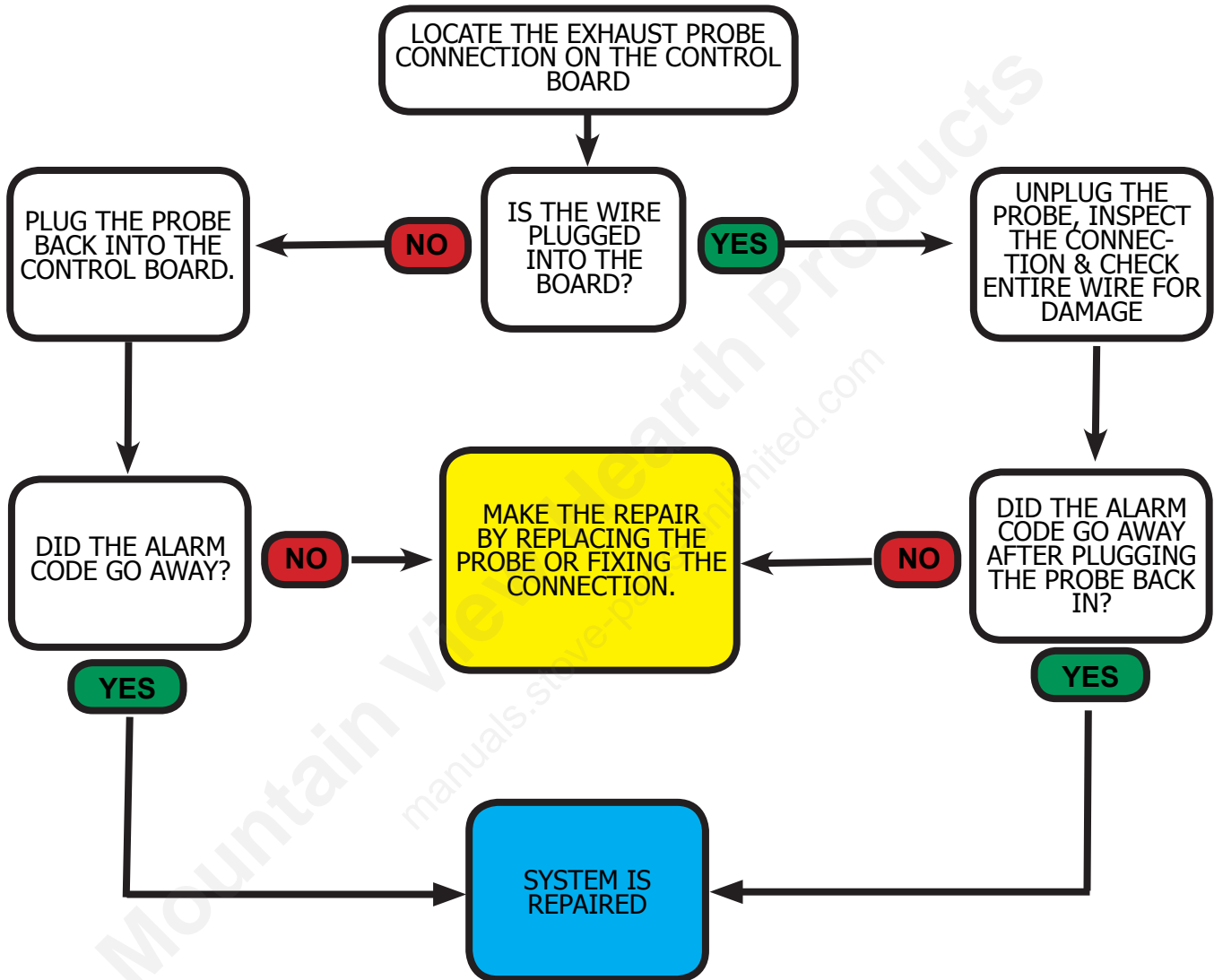


AT ROOM TEMPERATURE, THE AMBIENT PROBE WILL READ AROUND 10.2K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

2 FLASHES: EXHAUST PROBE FAIL

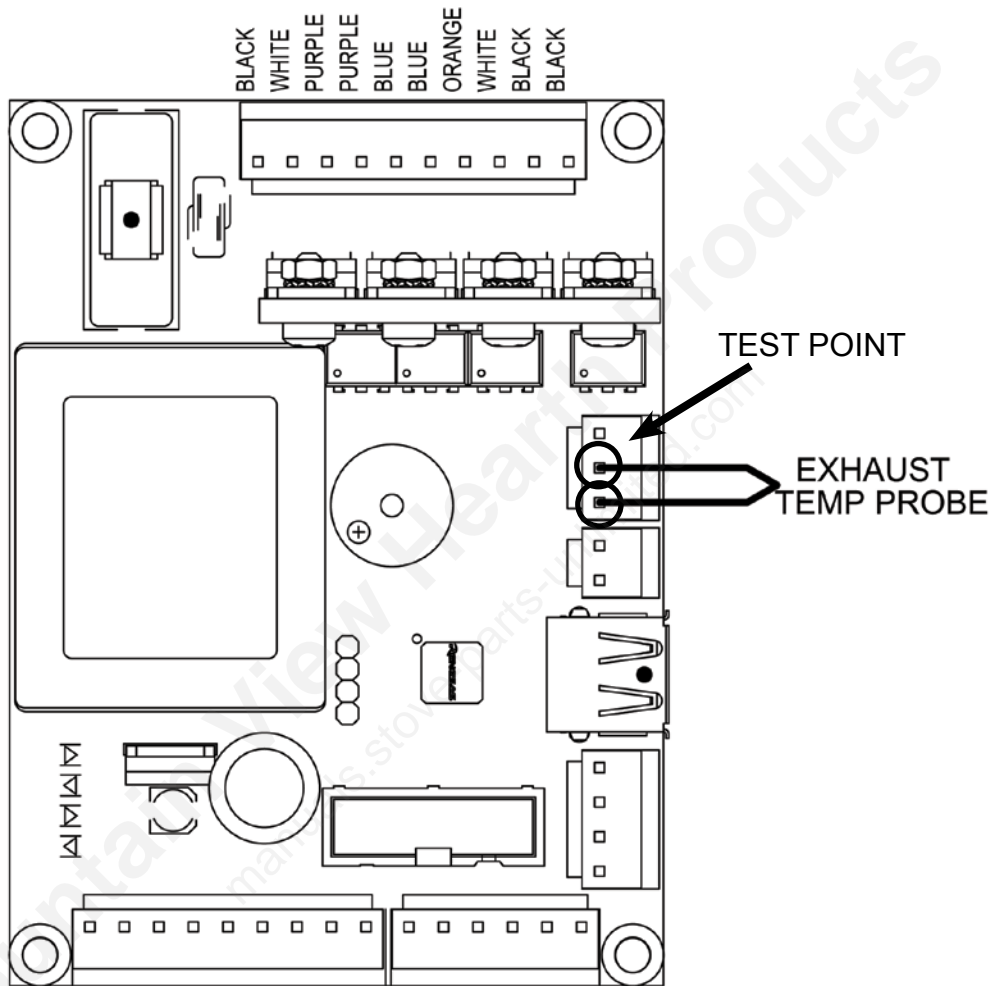
HOME



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

2 FLASHES: EXHAUST PROBE FAIL

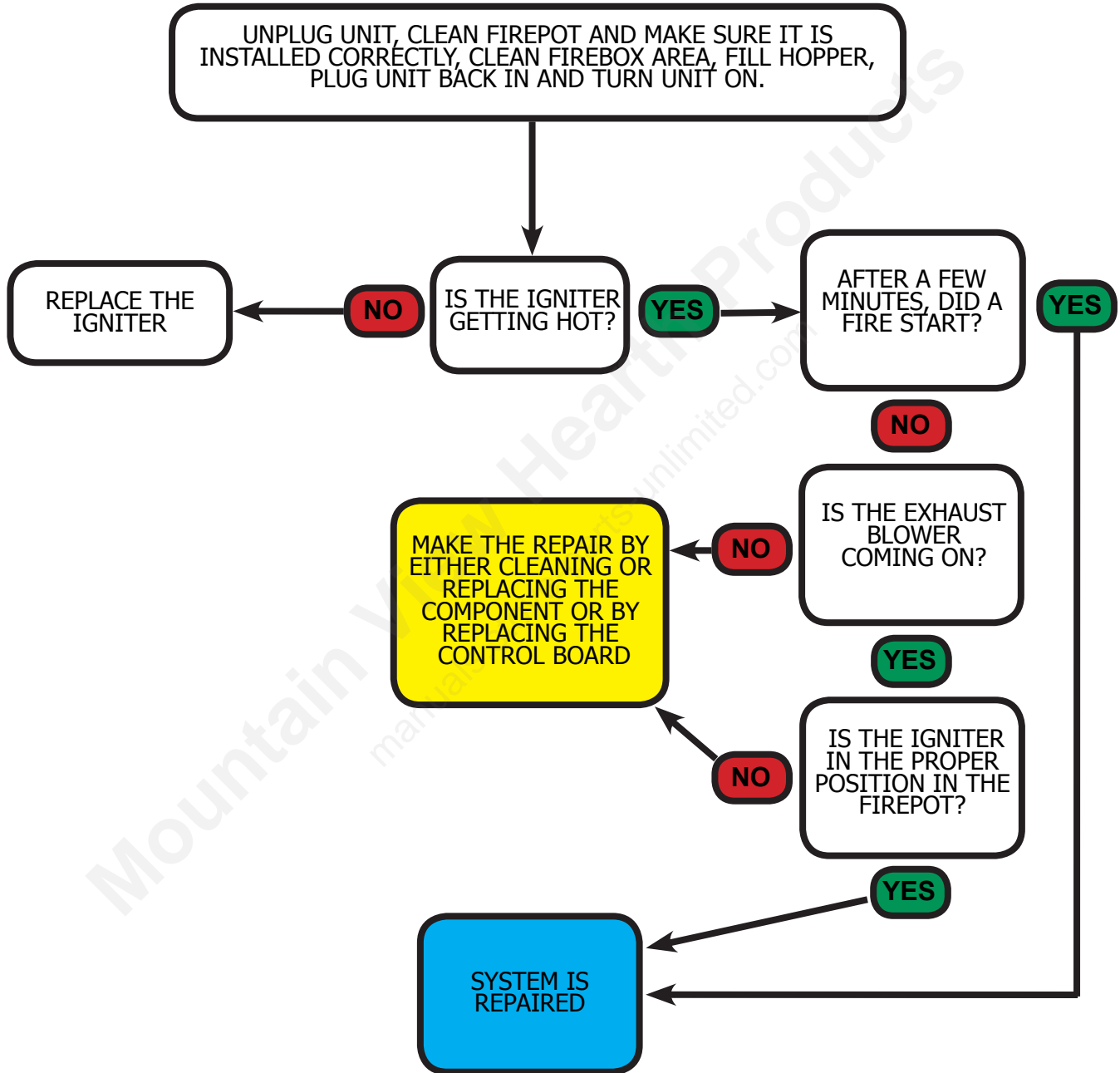


AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

NOT LIGHTING THE FUEL

HOME



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

NOT LIGHTING THE FUEL

1) CHECK IGNITER



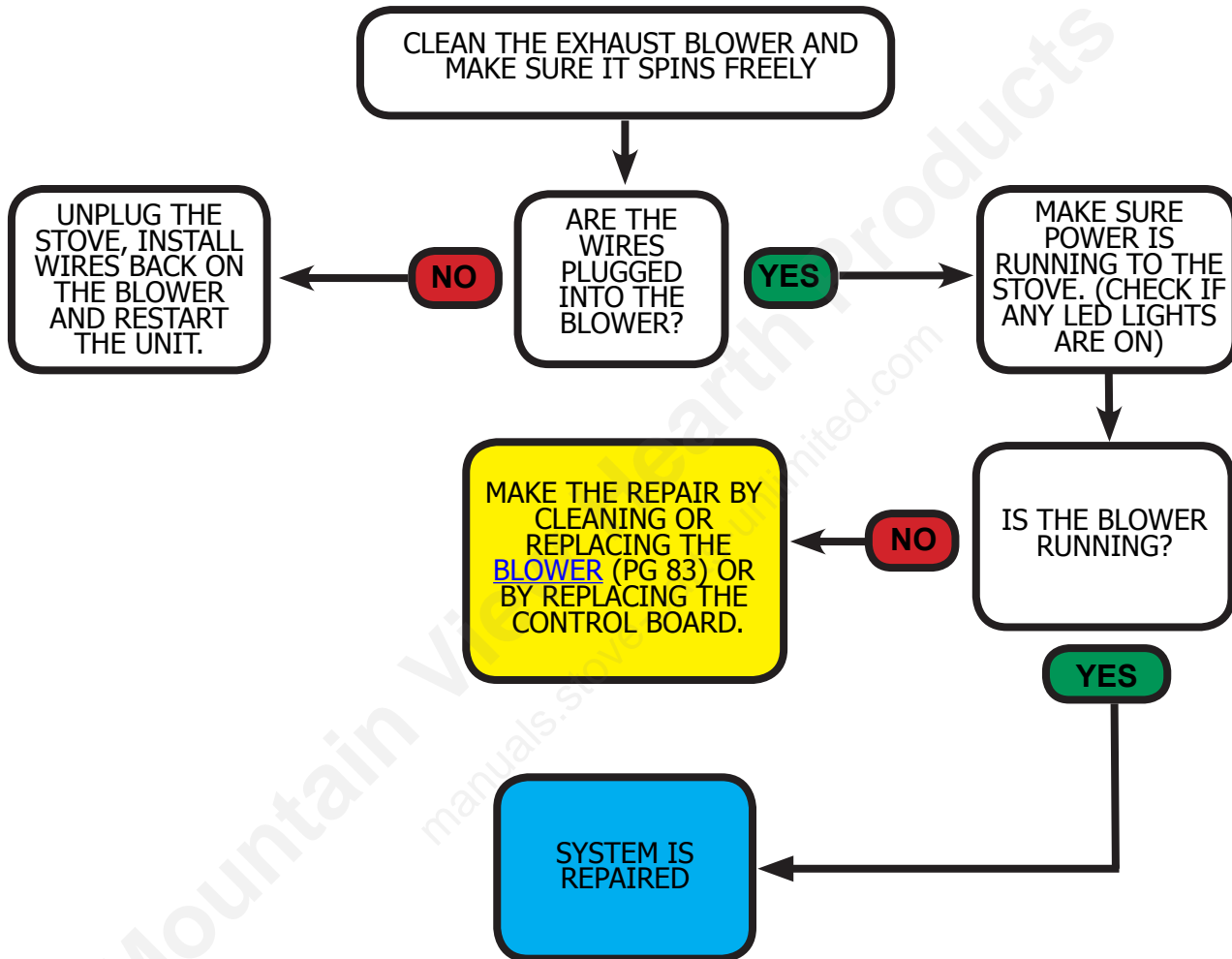
2) CHECK FIREPOT POSITION



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

EXHAUST BLOWER NOT COMING ON

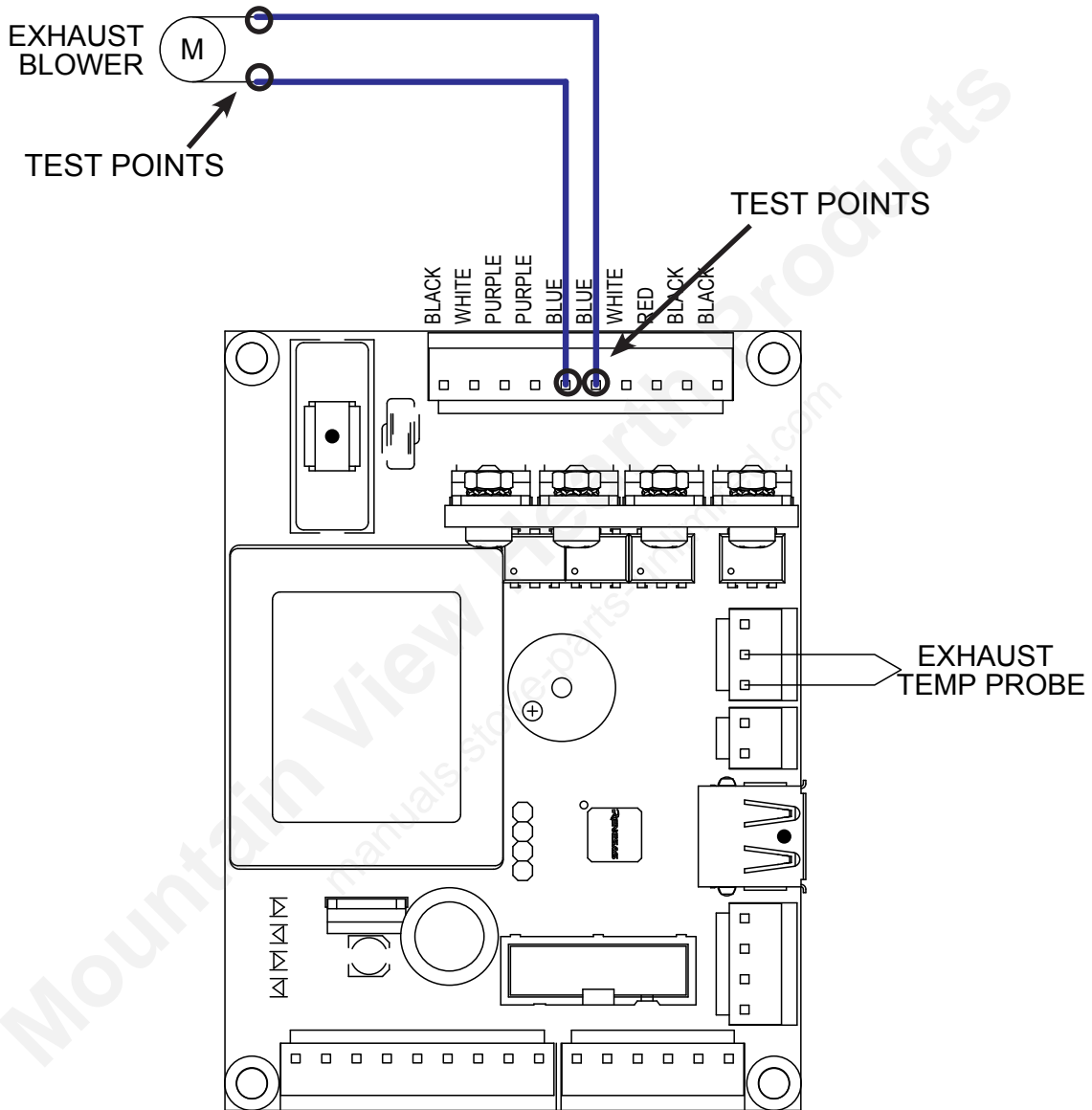
HOME



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

EXHAUST BLOWER NOT COMING ON

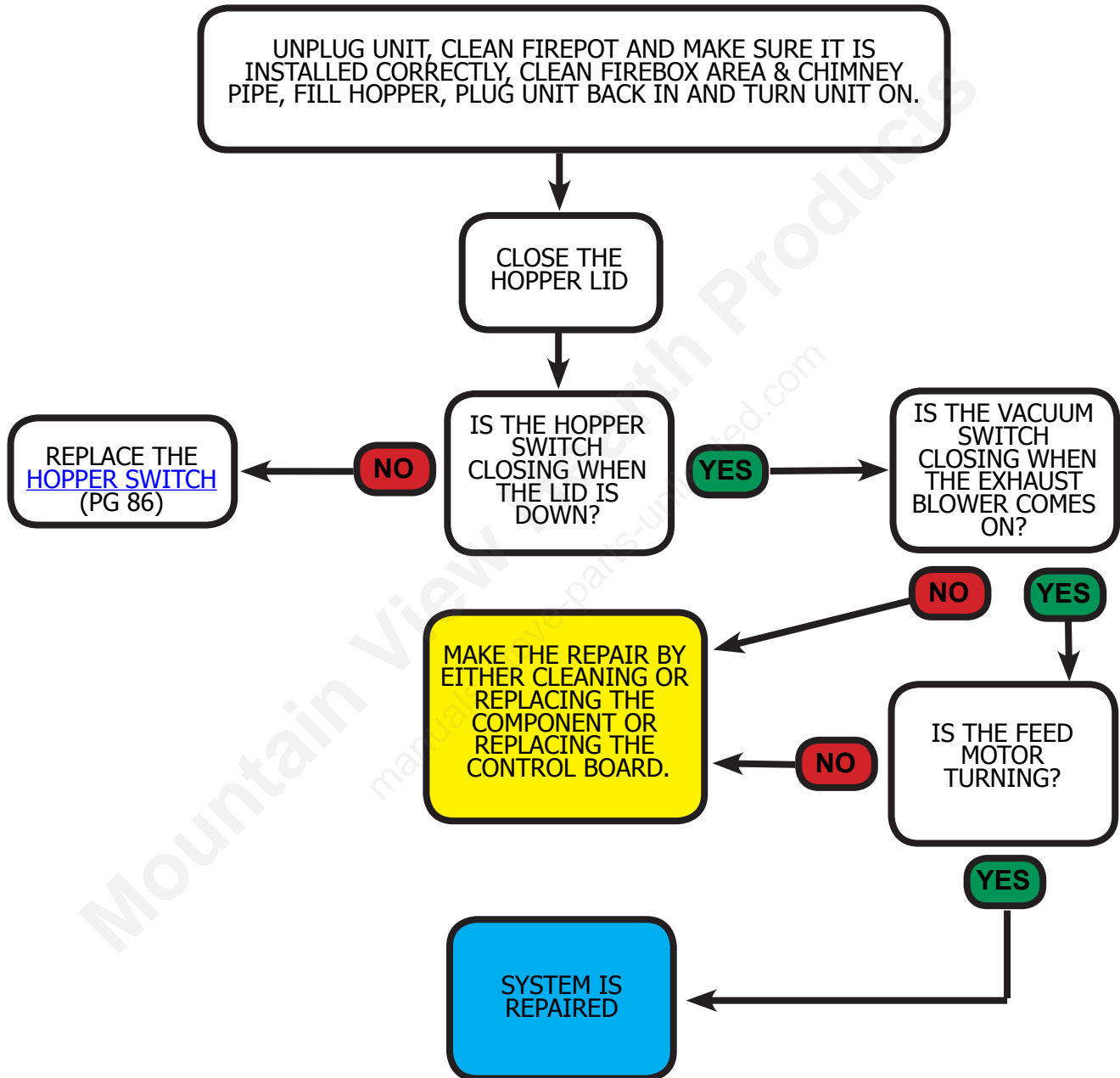


Refer to the specifications sheet for exhaust blower voltages.

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

HOME

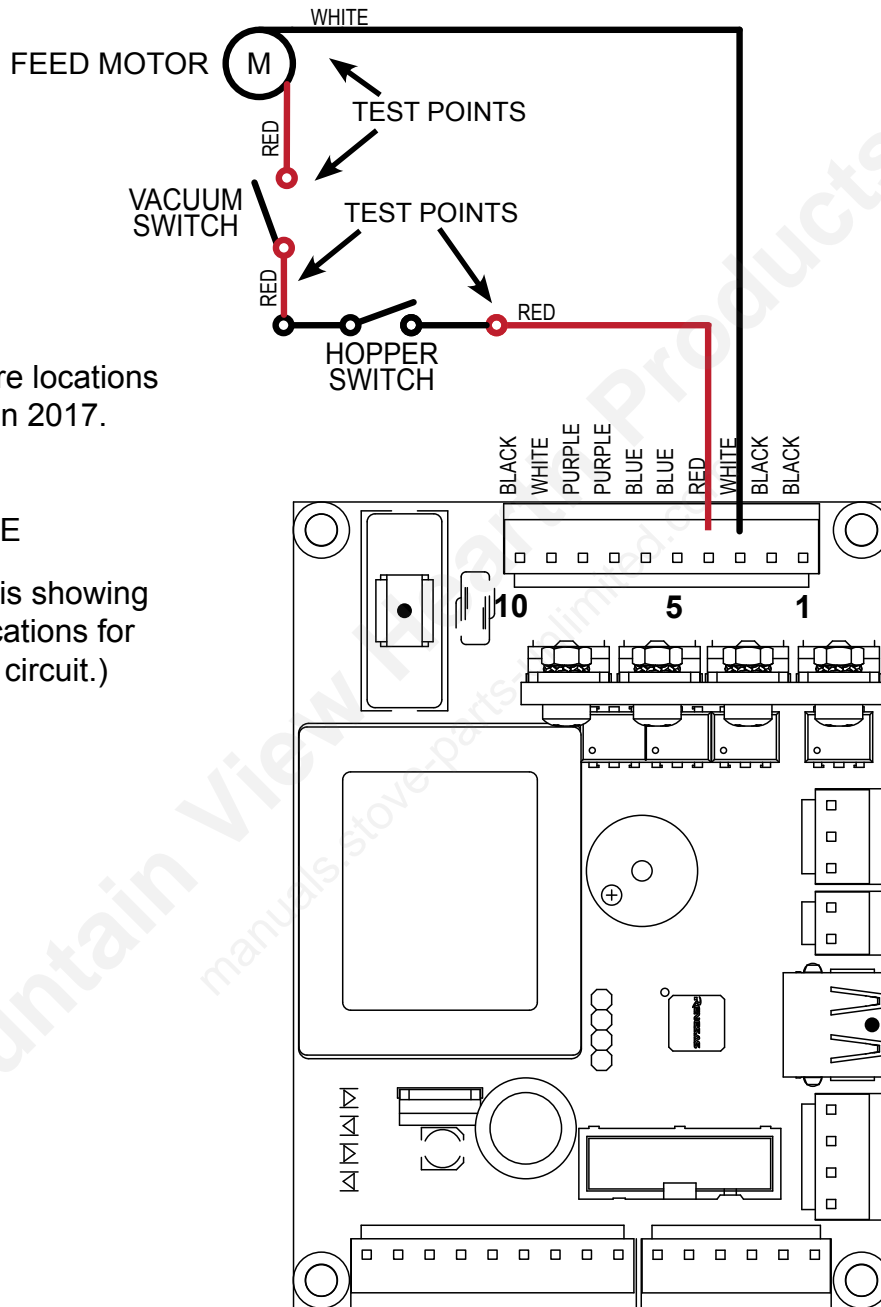
NOT FEEDING PELLETS



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

NOT FEEDING PELLETS



Tech Update:

Feed circuit wire locations were updated in 2017.

ECO# 83592

Pin #3 = RED

Pin #4 = WHITE

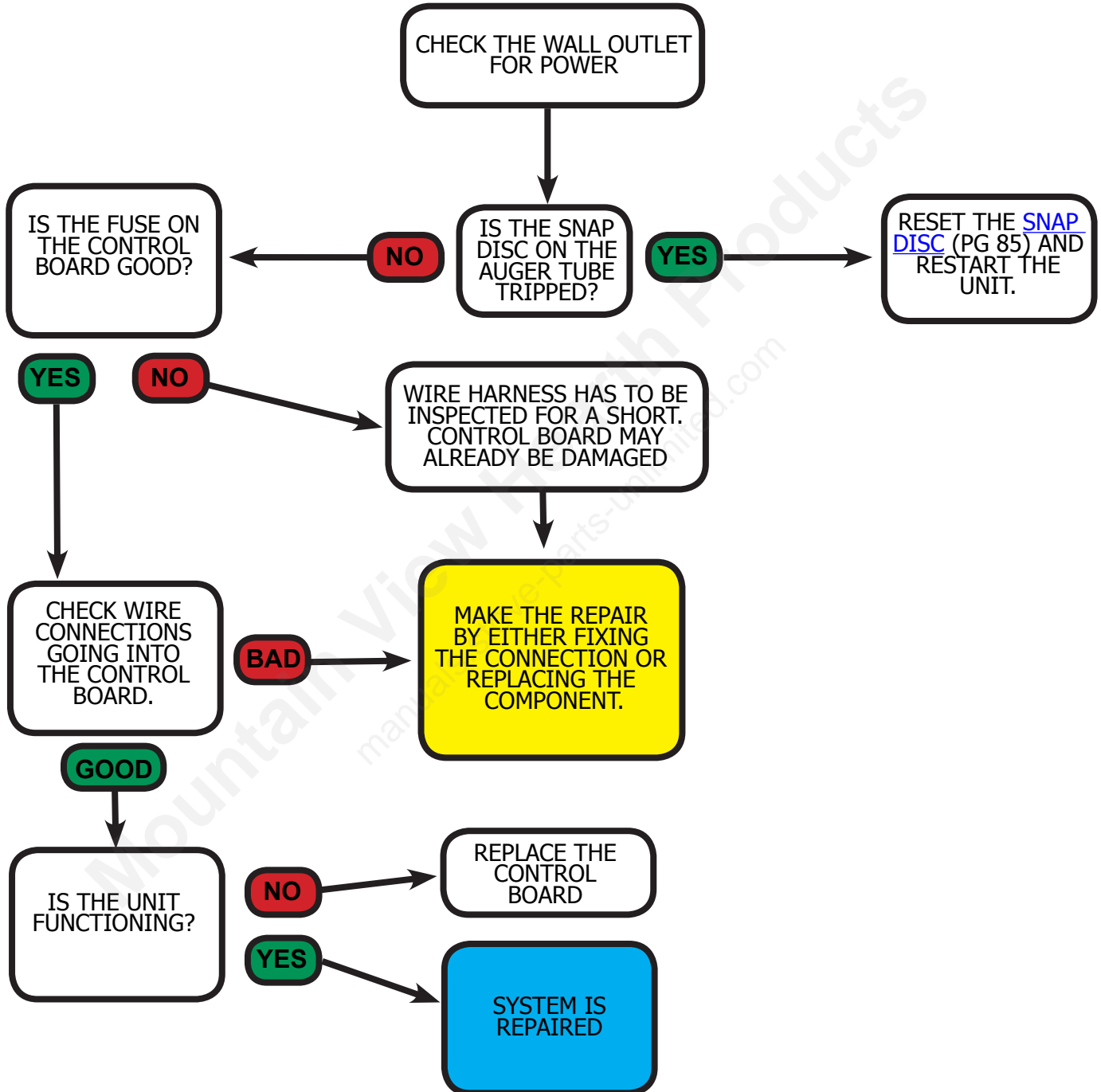
(Wire diagram is showing the old wire locations for the feed motor circuit.)

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.

PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

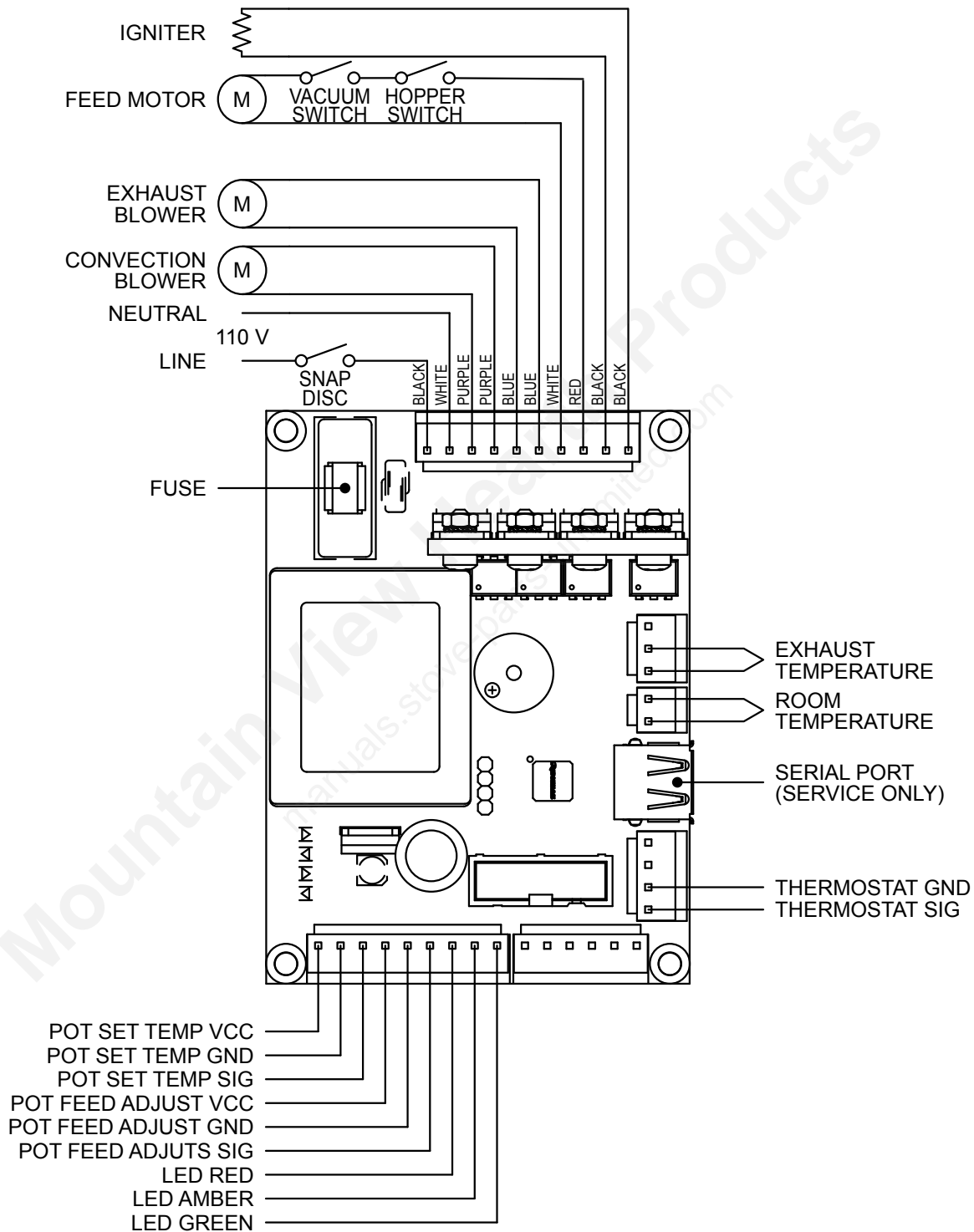
NO POWER

HOME



PELPRO TROUBLE SHOOTING MANUAL
PP60 & PP130 STOVES

NO POWER



THIS IS THE MOST CURRENT WIRE DIAGRAM FOR HARNESS #SRV7093-184

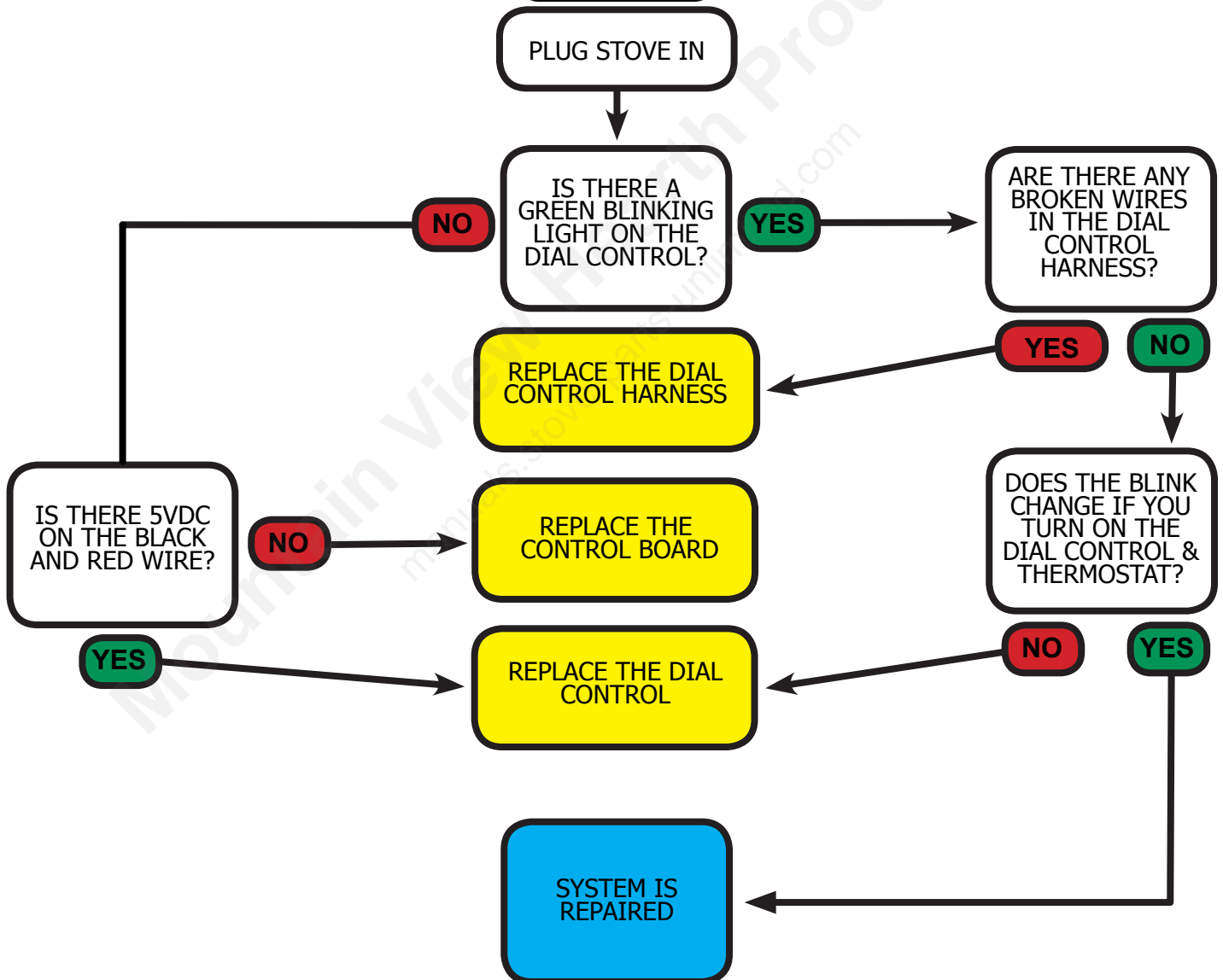
PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

HOME

DIAL CONTROL TROUBLE-SHOOTING

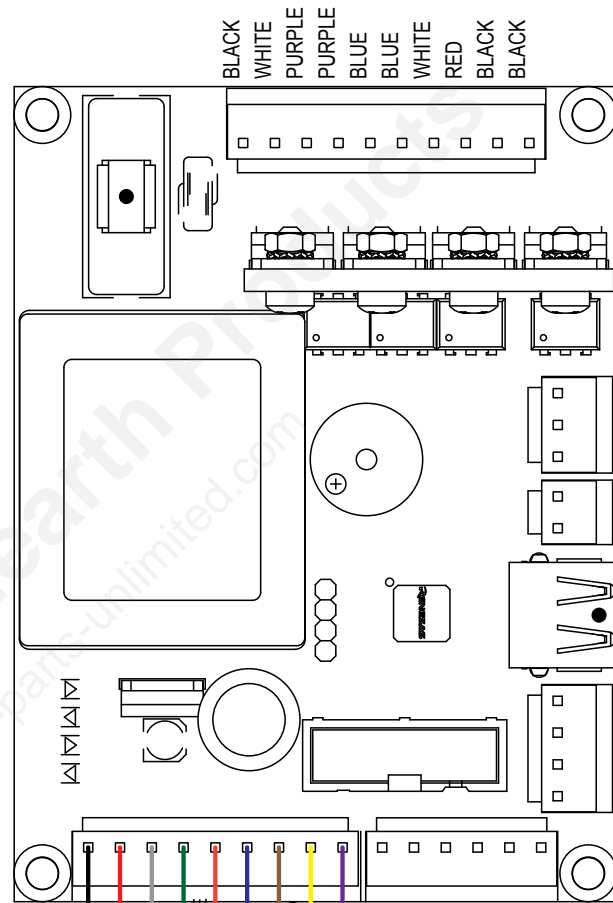
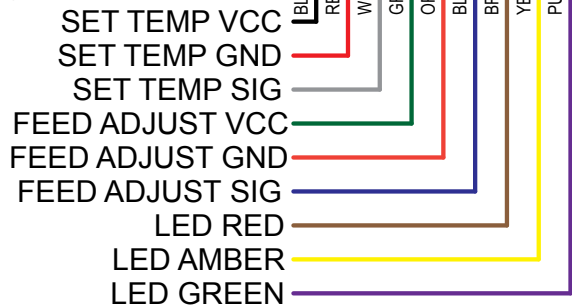
TECH TIP: DOING A "PRIME" FUNCTION IS AN EASY WAY TO SEE IF THE DIAL CONTROL IS WORKING. IF THE UNIT WILL PRIME, THEN THE DIAL CONTROL IS WORKING.



PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 STOVES

DIAL CONTROL TROUBLE-SHOOTING



DIAL CONTROL SPECS:

5VDC POWERS THE CONTROL
 RESISTANCE MEASURED ACROSS BLACK & WHITE WIRE
 FOR DIAL: 10K OHMS TO 0 OHMS (OFF TO HI)

PP60 & PP130 STOVES

REPAIR PROCEDURE TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
IGNITER.....	PAGE 80
CONVECTION BLOWER PP60.....	PAGE 81
CONVECTION BLOWER PP130.....	PAGE 82
EXHAUST BLOWER.....	PAGE 83
FEED MOTOR.....	PAGE 84
SNAP DISC.....	PAGE 85
HOPPER SWITCH.....	PAGE 86
VACUUM SWITCH.....	PAGE 87
FIREPOT AND BAFFLE.....	PAGE 88
DOOR AND GLASS.....	PAGE 89

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

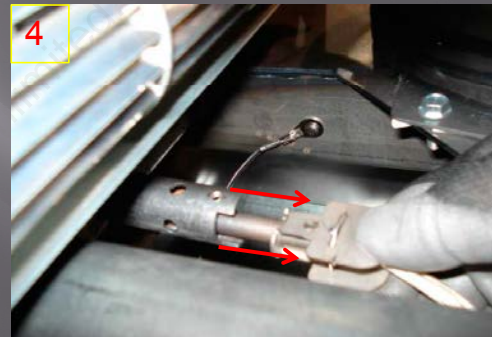
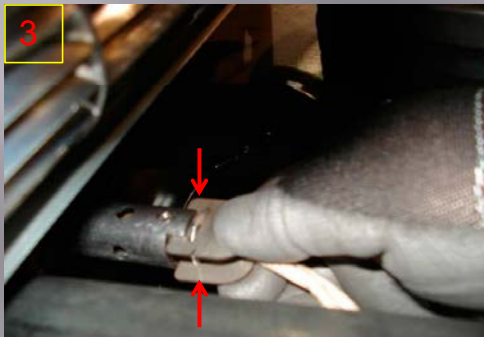
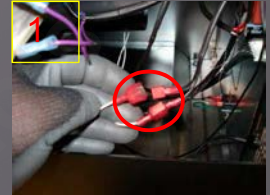
IGNITER REMOVAL

HOME

Igniter Removal

Removal steps:

- 1-with RH side panel removed, disconnect the igniter leads.
- 2-Remove the set screw in the igniter tube.
- 3-Pinch the igniter retainer tabs together.
- 4-Pull the igniter to the rear, and out of the igniter tube.



Overview: **Moderately Easy**

This process could be made less difficult by changing the retainer screw to a wing-nut or hex-head screw, as clearance is tight with the convection blower in place.

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

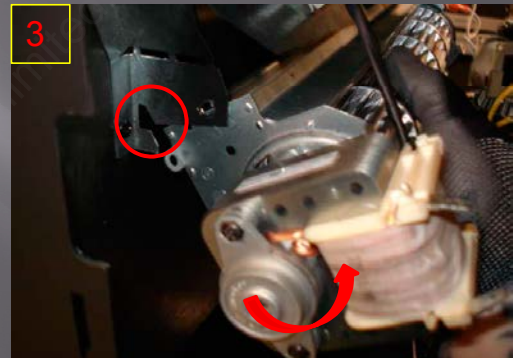
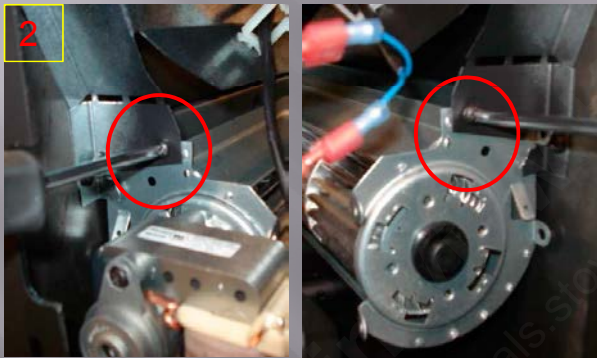
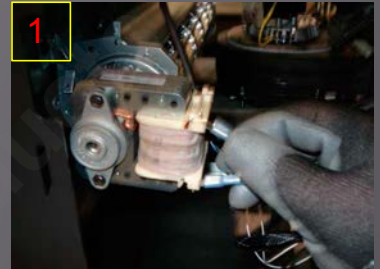
CONVECTION BLOWER REMOVAL (PP60)

HOME

Convection Blower Removal

Removal steps:

- 1-Disconnect the blower leads from the motor.
- 2-Remove the retainer screws on either side of the motor, at the base of the convection plenum.
- 3-Rotate blower up, and slide out of plenum slots.

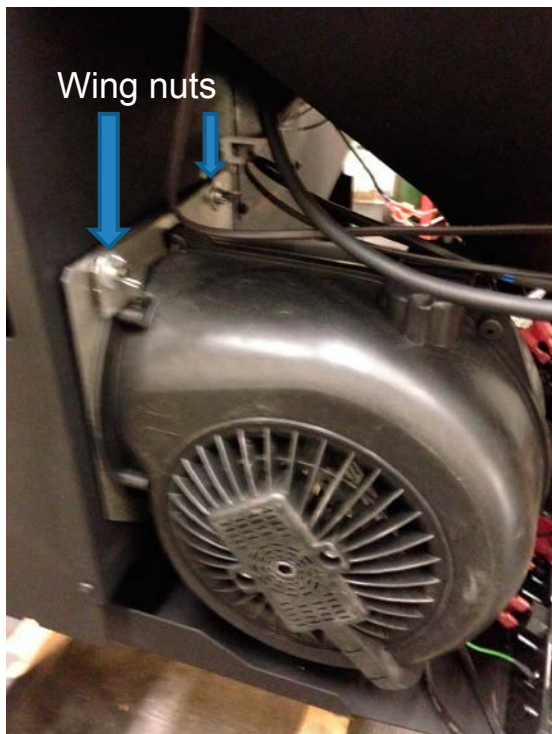


Overview: **Easy**

This convection blower is much more accessible than our traditional system .

CONVECTION BLOWER REMOVAL
(PP130)

CONVECTION BLOWER



Remove the right side panel to access the blower. Two wing nuts hold it in place. Removal is a little tight, so the blower will need to be rotated a little to get it out. Removing the vacuum switch is a good option if you need a little more room taking the blower out.

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

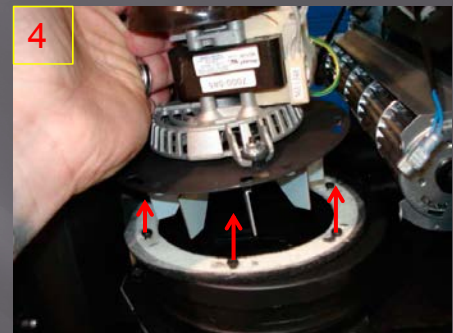
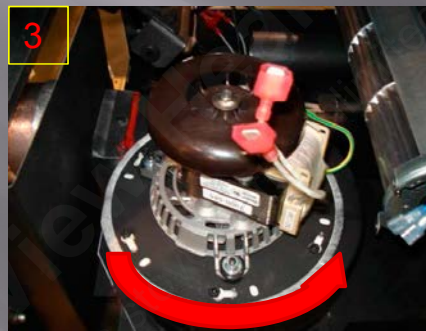
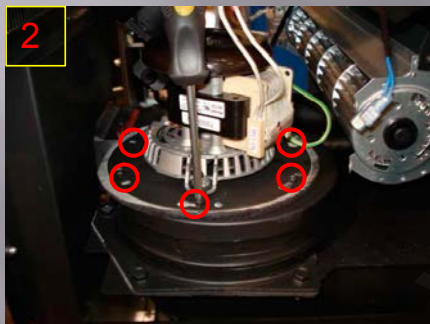
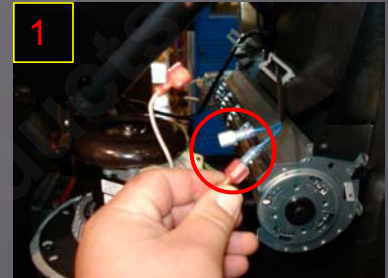
HOME

EXHAUST BLOWER REMOVAL

Combustion Blower Removal

Removal steps:

- 1-Disconnect the blower leads from the harness.
- 2-Loosen the 6 screws on top of the blower housing.
- 3-Rotate motor counter clock-wise.
- 4-Lift motor out of housing.



Overview: **Easy**

This process is much easier than many other units. Access is thru the left side of the unit with the side panel removed. A corner-install may make this process more difficult, but not impossible.

PELPRO TROUBLE SHOOTING MANUAL

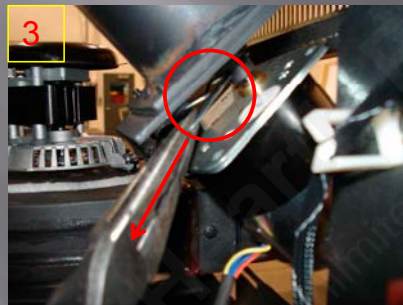
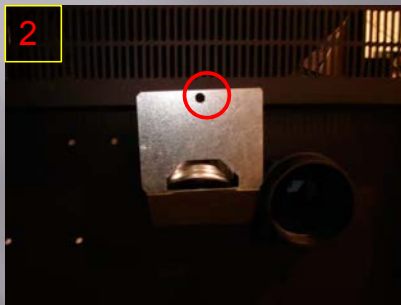
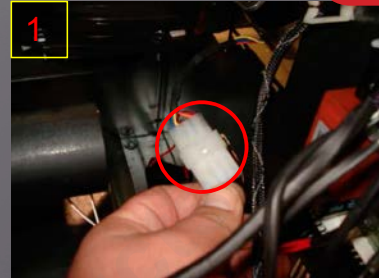
PP60 / PP130 REPAIR PROCEDURES

HOME

Feed Motor Removal

Removal steps:

- 1-Disconnect the Molex connector for the feed motor.
- 2-Remove the screw for the feed motor cover plate.
- 3-Remove the cotter-pin at the base of the feed shaft.
- 4-Pull the feed motor out the rear of the unit.

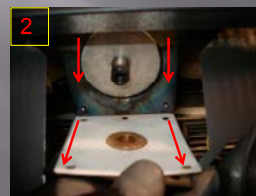
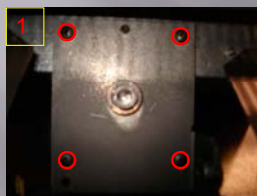


Overview: **Moderately Easy**

Removal is overall very simple. However, access to the cotter-pin is limited, and aligning the hole on the feed motor shaft to the hole on the auger shaft (which spins freely) can be difficult.

Removal steps:

- Remove feed motor as described in the previous slide.
- 1-Remove the 4 screws securing the feed tube plate.
- 2-Drop the feed tube plate down and out the back of the unit.
- 2- Pull the auger shaft out the back of the unit.



Overview: **Easy**

Overall design makes removal easy. However, unit may need to be pulled away from the wall to remove shaft completely.

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

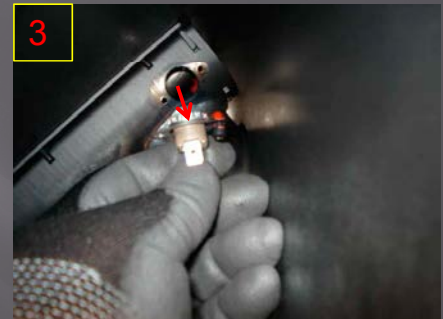
SNAP DISC REMOVAL

HOME

Snap Disc Removal

Removal steps:

- 1-Disconnect snap disc leads.
- 2- Remove the 2 retainer screws.
- 3-Pull snap disc from auger tube



Overview: **Easy**
Access is a little tight.

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

HOME

HOPPER SWITCH REMOVAL

Hopper Switch Removal

Removal steps:

- 1-Remove the 2 retainer screws on the outside of the hopper.
- 2-Pull switch assembly from inside the hopper.
- 3-Disconnect hopper switch leads.



Overview: **Easy**

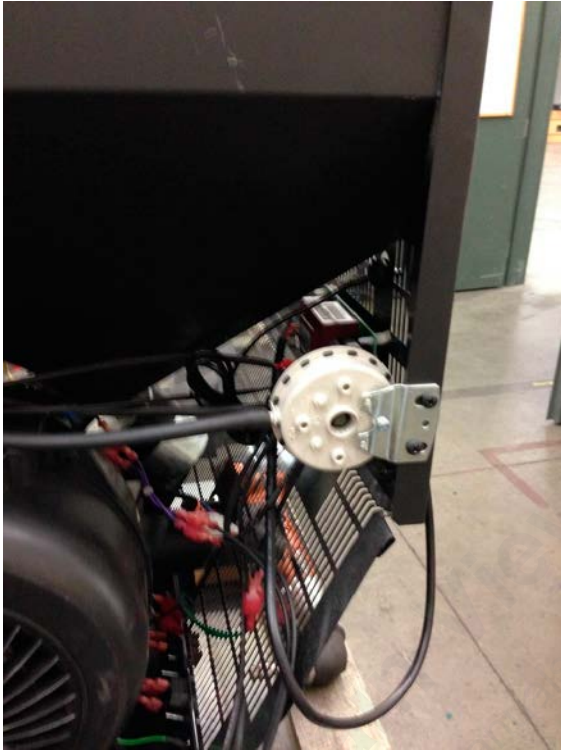
Access is good, harness is left inside unit.

PELPRO TROUBLE SHOOTING MANUAL
PP60 / PP130 REPAIR PROCEDURES

HOME

VACUUM SWITCH REMOVAL

VACUUM SWITCH



Remove the right side panel. Two Phillips screws hold it in place.

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

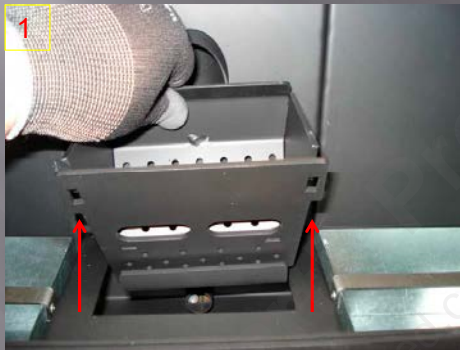
FIREPOT & BAFFLE REMOVAL

HOME

Firepot Removal

Removal steps:

- 1- Grab the rear lip on the firepot and pull up, then out the firebox door.



Overview: **Easy**

No tools needed, no gasket used.

Baffle Removal

Removal steps:

- Remove firepot as described in the previous slide.
- 1-Remove the two ash pans on either side of the firepot.
 - 2-Starting with the center baffle, lift baffle up, and slide out the front of the firebox.



Overview: **Easy**

Removing the firepot in addition to the ash-pans makes this much easier.
Process is similar to ECO units.

PELPRO TROUBLE SHOOTING MANUAL

PP60 / PP130 REPAIR PROCEDURES

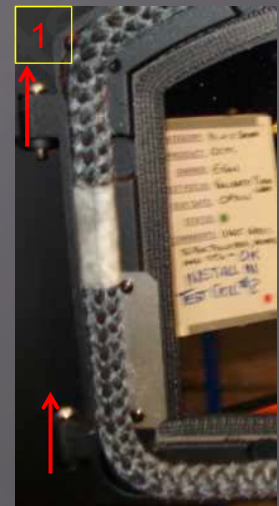
HOME

DOOR AND GLASS REMOVAL

Door and Door Glass removal

Removal steps:

- 1- Open door and lift up until the door hinge bosses clear the hinge posts on the unit face.
- 2- Remove the 8 machine screws securing the glass retainers to the door frame and remove glass from door



Overview: **Easy**

Door handle is non-replaceable.

PELPRO TROUBLE SHOOTING MANUAL

PP60 & PP130 SPECIFICATIONS

[HOME](#)

MODELS:	PP60	PP130
WATTS:		
EXHAUST BLOWER	132w	132w
CONVECTION BLOWER	71w	288w
IGNITER	300w	300w
FEED MOTOR	15w	15w
AMPS:		
EXHAUST BLOWER	.47A	.47A
CONVECTION BLOWER	.62A	2.4A
IGNITER	2.5A	2.5A
FEED MOTOR	125mA	125mA
CONVECTION BLOWER VOLTS:		
LOW TO HIGH (VAC)	62v to 115v	62v to 115v
EXHAUST BLOWER VOLT RANGE (75 TO 91+/- 5v, 0 trim)		
POWER LEVEL 1	86v	87v
POWER LEVEL 2	88v	90v
POWER LEVEL 3	90v	95v
POWER LEVEL 4	93v	101v
POWER LEVEL 5	98v	111v
FEED MOTOR "ON" TIMES:		
POWER LEVEL 1	1.0	1.0
POWER LEVEL 2	1.4	1.6
POWER LEVEL 3	1.8	2.2
POWER LEVEL 4	2.2	2.8
POWER LEVEL 5	2.7	3.5
BTU INPUT:		
POWER LEVEL 1	12,900	14,200
POWER LEVEL 2		
POWER LEVEL 3		
POWER LEVEL 4		
POWER LEVEL 5	34,400	46,900
CONVECTION BLOWER CFM:	150	250
HOPPER CAPACITY:		
FREESTANDING	60 lbs	130 lbs
VACUUM: (COLD STOVE, EXHAUST BLOWER VOLTS 115, FUEL IN HOPPER)	.14 to .21 wc	.14 to .21wc

Note: stove was plugged into a 115V outlet. Voltages can vary depending on volts from the outlet.



TROUBLE SHOOTING MANUAL

PPC90



PELPRO TROUBLE SHOOTING MANUAL

PPC90 PARTS LIST

HOME

BAFFLE KIT.....SRV7079-006

BLOWERS:

EXHAUST BLOWER (1).....SRV7000-585

CONVECTION BLOWER (2).....KS-5020-1052

CONTROL BOARD (PP60) (3).....SRV7093-050

DIGITAL CONTROL (4).....SRV7093-036

DOOR PARTS:

COMPLETE DOOR ASSY.....7093-041-1MBK

GLASS (9.81" X 14.13").....SRV7093-023

HINGE PINS.....433-1590/2

LATCH HANDLE ASSY.....SRV7093-024

PHENOLIC HANDLE (BLACK).....KS-5140-1442

FEED MOTOR ASSY (5).....SRV7077-014

FEED MOTOR ONLY (ROUND).....SRV7000-670

FEED ASSY PULL PIN.....7000-601/10

FIREPOT PARTS:

FIREPOT (6).....SRV7077-003

IGNITER (300W) (7).....SRV7000-660

GASKETS:

DOOR GASKET (3/4" X 84").....832-1680

EXH BLOWER GASKET.....812-4710

GLASS GASKET (3/4" X 10').....240-0290/10

HOPPER LID SWITCH.....SRV7000-612

PROBES:

AMBIENT TEMPERATURE (8).....SRV7000-668

EXHAUST TEMPERATURE.....SRV7000-669

SNAP DISC, HIGH LIMIT (L200).....SRV230-0080

WIRE HARNESS.....SRV7093-184

VACUUM SWITCH (9).....SRV7000-531



1



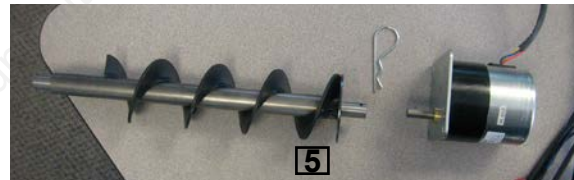
2



3



4



5



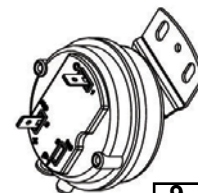
6



7



8



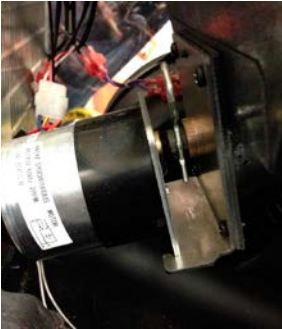
9

PELPRO TROUBLE SHOOTING MANUAL

PPC90 PART LOCATIONS

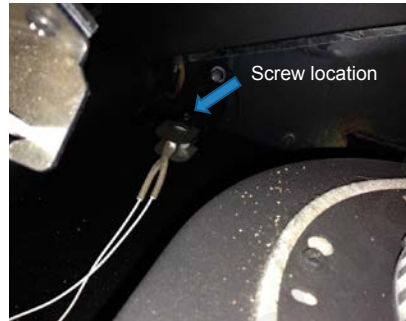
HOME

FEED MOTOR



The feed motor is located on the back of the unit towards the bottom. Removing the rear screen and left side panel is the best way to access the motor. Once access is gained, simply pulling the pin on the auger shaft will release the feed motor.

IGNITER



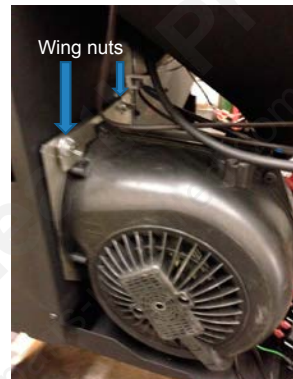
The igniter is located at the back of the firebox in the middle. Removing the left access panel will allow you to see it. There is a Phillips head screw holding the igniter in place.

EXHAUST BLOWER



Remove the left side panel to access the blower. A Phillips head screwdriver will be needed to remove the blower from the housing.

CONVECTION BLOWER



Remove the right side panel to access the blower. Two wing nuts hold it in place. Removal is a little tight, so the blower will need to be rotated a little to get it out. Removing the vacuum switch is a good option if you need a little more room taking the blower out.

VACUUM SWITCH



Remove the right side panel. Two Phillips screws hold it in place.

EXHAUST TEMP PROBE



Remove the left side panel to access the probe. Two Phillips head screws hold it in place.

#3 SNAP DISC



Remove the left side panel to access the snap disc. Two Phillips head screws hold it in place.

HOPPER SWITCH



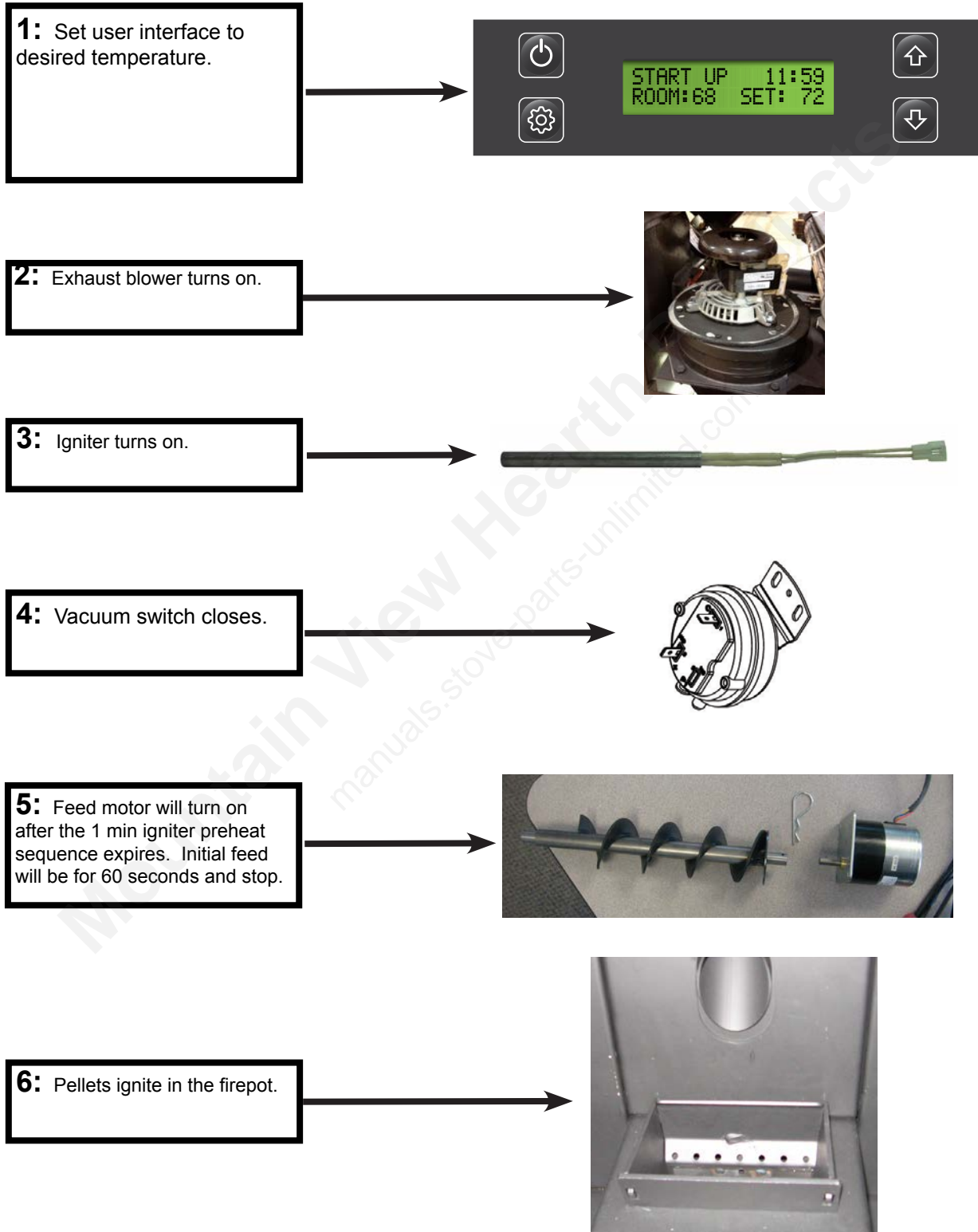
It is located under the hopper lid on the right side of the stove. The right side panel will need to be removed to access the 2 mounting screws for the hopper switch bracket.

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

PPC90 OPERATION FLOW CHART

HOME



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

PPC90 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. Unit will feed at .8 second "on time" for 3 minutes.



10: Convection blower turns on and increases speed as the unit 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.

FEED RATES: (7 second cycle) PPC90

Power level 1: 0.9 sec "on time"
Power level 2: 1.5 sec "on time"
Power level 3: 1.9 sec "on time"
Power level 4: 2.3 sec "on time"
Power level 5: 2.7 sec "on time"

12: Set temperature is met.



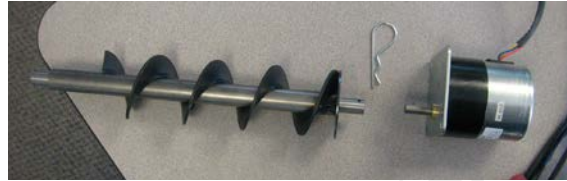
PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

PPC90 OPERATION FLOW CHART

HOME

13: Feed motor turns off.



14: Exhaust blower starts the shutdown cycle. Blower will run at maximum rpm.



15: Fire goes out in the firepot. Unit will continue to cool.



16: Exhaust probe drops below 140 degrees and shuts the convection blower off.



17: 17 minute shutdown timer expires and the exhaust blower shuts off.



18: End of the cycle.

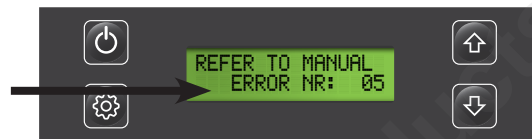




ERROR CODE DEFINITIONS



Error codes will look like this on the display



CODE #1

Fuel Feed Alarm. Most likely the unit ran out of fuel or the flames are adjusted too low.

CODE #2

Exhaust Temperature is above or below the acceptable range. Exhaust probe has failed or the flames need to be adjusted.

CODE #3

Ambient Temperature is above or below the acceptable range. Ambient probe has failed.

CODE #4

Missed Ignition Alarm. Unit has either ran out of fuel or the firepot needs to be cleaned. Also it is possible that the igniter has failed if the unit is clean.

CODE #5

Digital Display Communication Alarm. Unit lost power while the stove was running or there was a bad connection from the display to the control board. Board may need replaced.

CODE #7

Exhaust temperature over heat alarm. Unit got too hot. Check the heat exchanger and exhaust system for obstructions. Make sure the flame height is correct.

PPC90 PELLET STOVE TROUBLE-SHOOTING

ALARM CODE

T/S CHART

CODE #1: FUEL FEED ALARM.....([PAGE 105](#))

CODE #2: EXHAUST PROBE ALARM.....([PAGE 111](#))

CODE #3: AMBIENT PROBE ALARM.....([PAGE 109](#))

CODE #4: MISSED IGNITION.....([PAGE 107](#))

CODE #5: DIGITAL DISPLAY COMM ALARM.....([PAGE 119](#))

CODE #7: EXHAUST OVER TEMPERATURE.....([PAGE 101](#))

SYMPTOM

NOT FEEDING PELLETS:.....([PAGE 117](#))

NOT LIGHTING THE FUEL:.....([PAGE 113](#))

LAZY OR SOOTY FLAMES:.....([PAGE 103](#))

NO POWER:.....([PAGE 121](#))

CONVECTION BLOWER NOT COMING ON:.....([PAGE 99](#))

EXHAUST BLOWER NOT COMING ON:.....([PAGE 115](#))

FIREBOX VACUUM LOW OR VAC SWITCH NOT WORKING.....([PAGE 123](#))

THERMOSTAT NOT WORKING.....([PAGE 125](#))

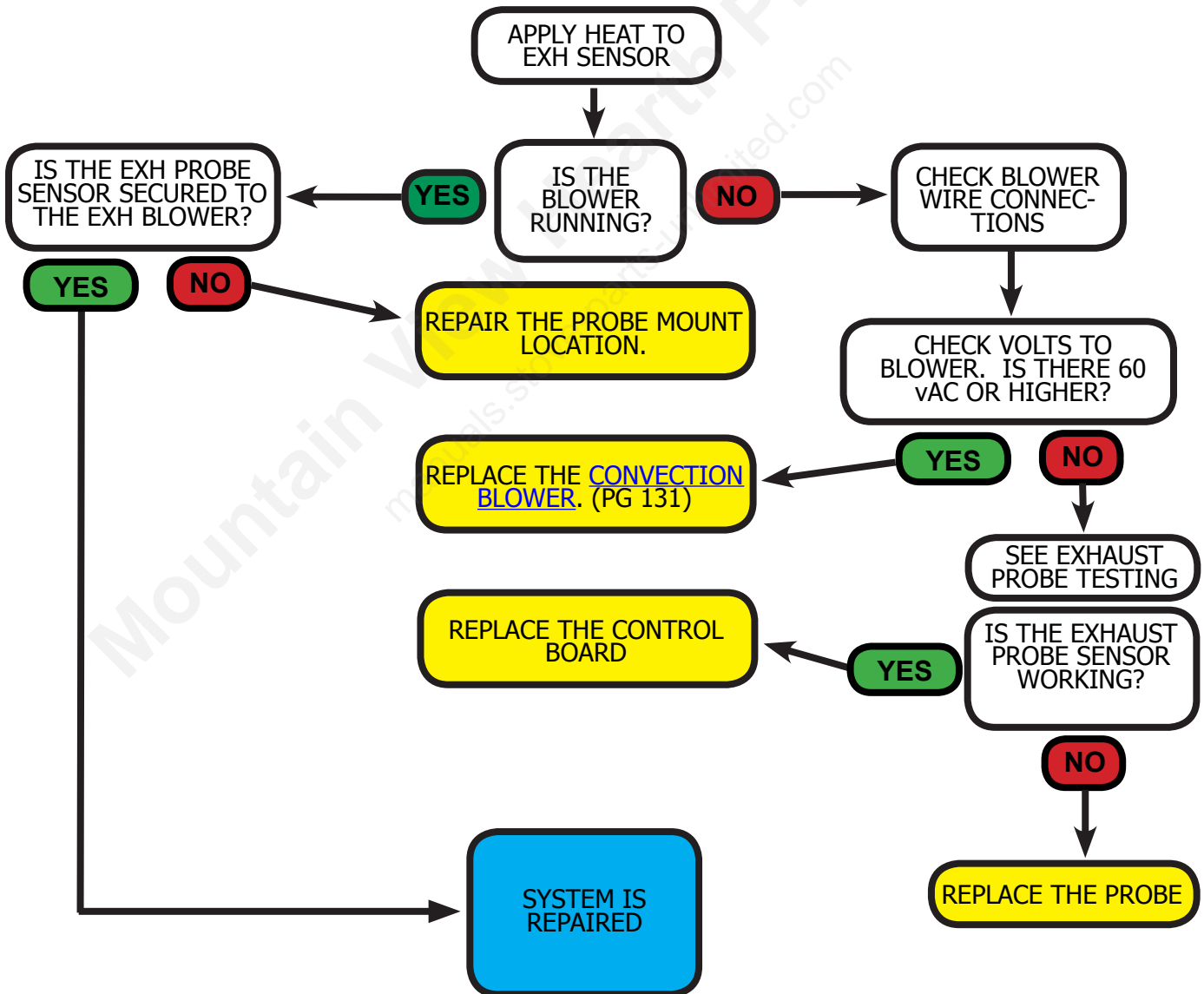
REFER TO THE OWNERS MANUAL FOR INFORMATION ON MAKING ADJUSTMENTS TO THE UNIT OR FOR THE PROCEDURES FOR REPLACING PARTS.

WARNING!
ALWAYS UNPLUG THE STOVE BEFORE CLEANING, REPLACING COMPONENTS, RESETTING SNAP DISCS AND CHECKING WIRE CONNECTIONS.

CONVECTION BLOWER TROUBLE-SHOOTING

HOME

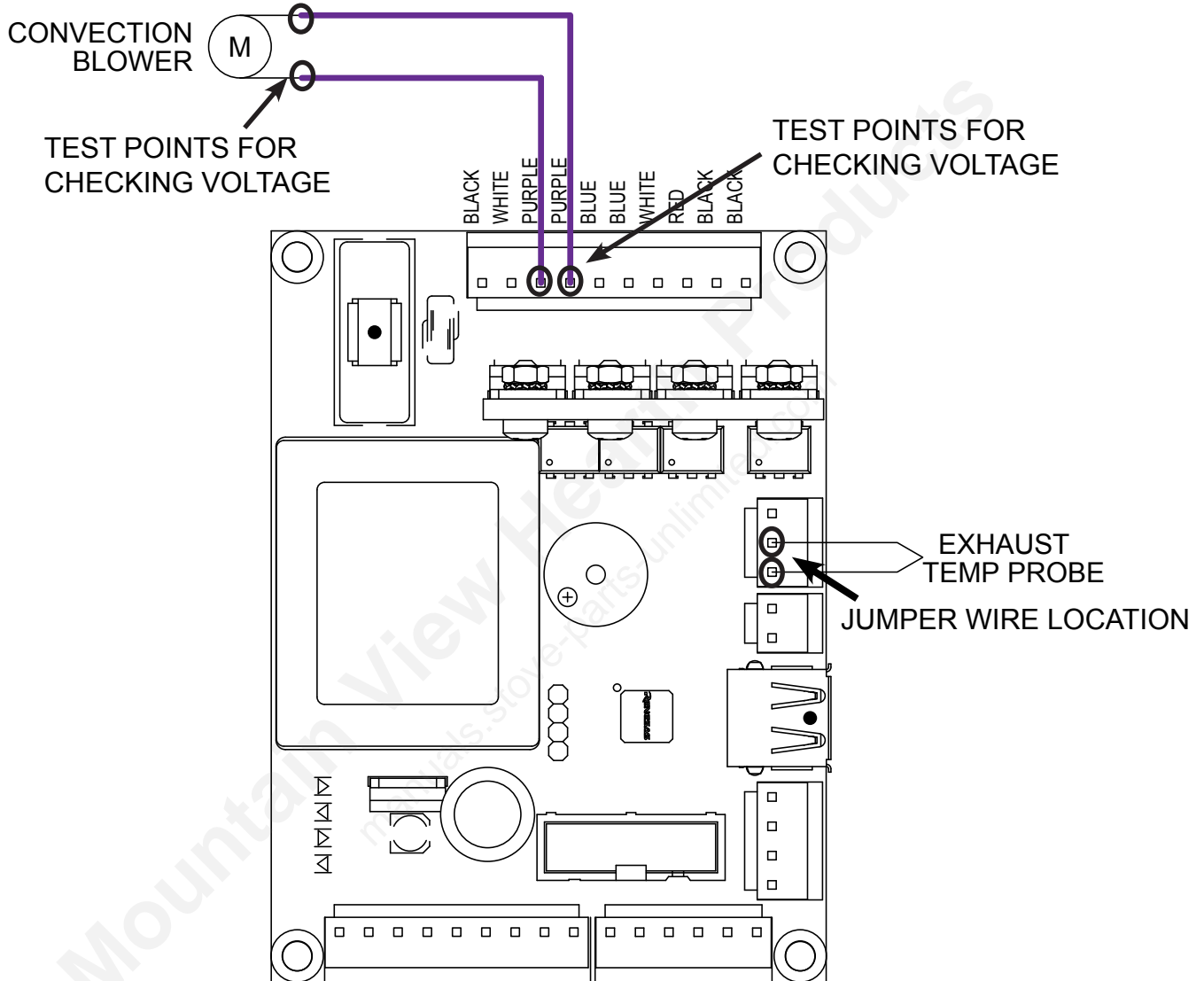
TECH TIP:
 INSTALLING A JUMPER WIRE
 ON THE EXHAUST PROBE
 CONNECTION ON THE
 BOARD WILL ALSO TURN
 THE CONVECTION BLOWER
 ON.



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CONVECTION BLOWER TROUBLE-SHOOTING



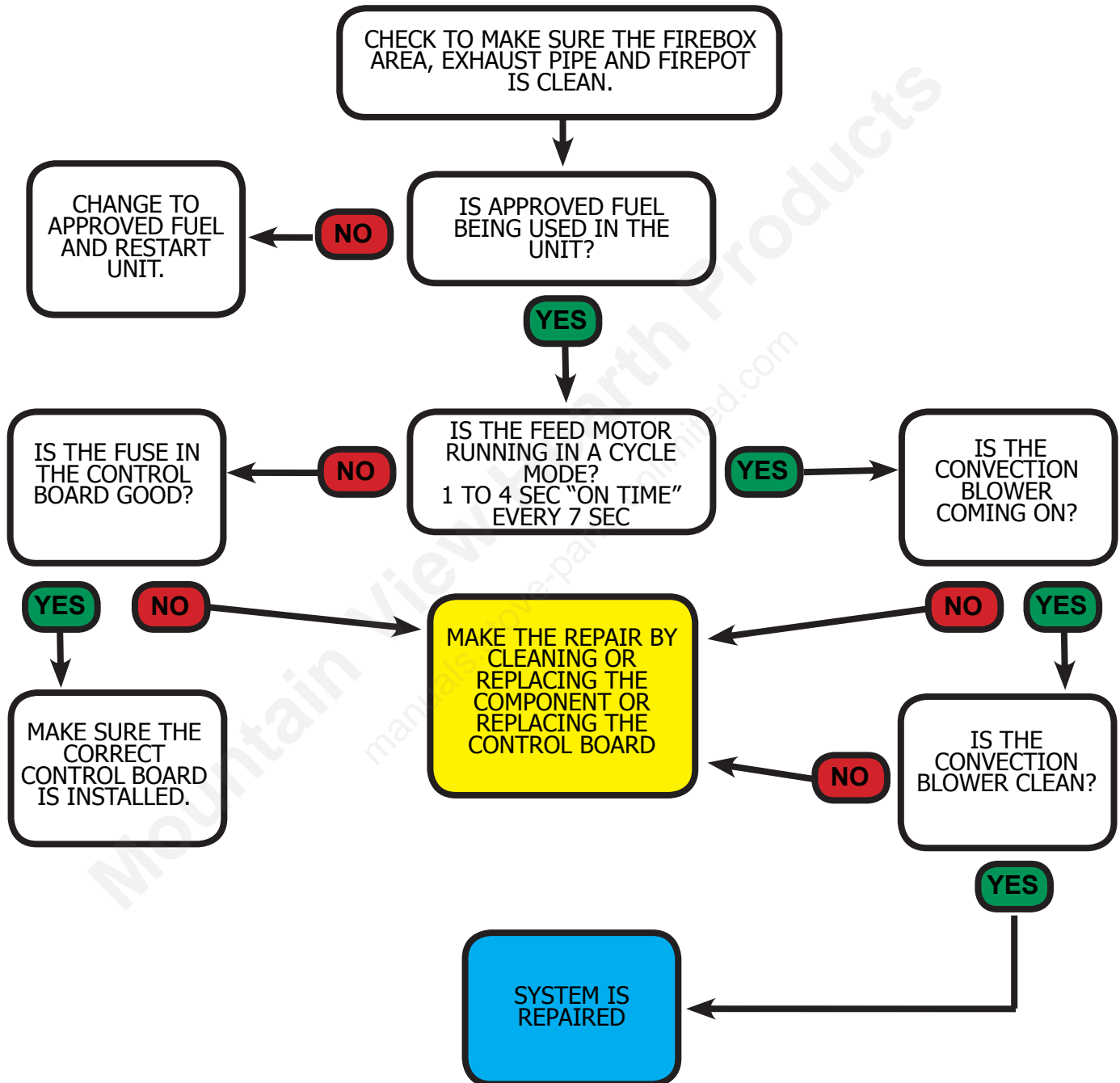
CONVECTION BLOWER VOLTS RANGE: 63VAC TO 114VAC (+/- 5VAC)
(POWER LEVEL 1 TO POWER LEVEL 5)

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #7: EXHAUST OVER TEMPERATURE

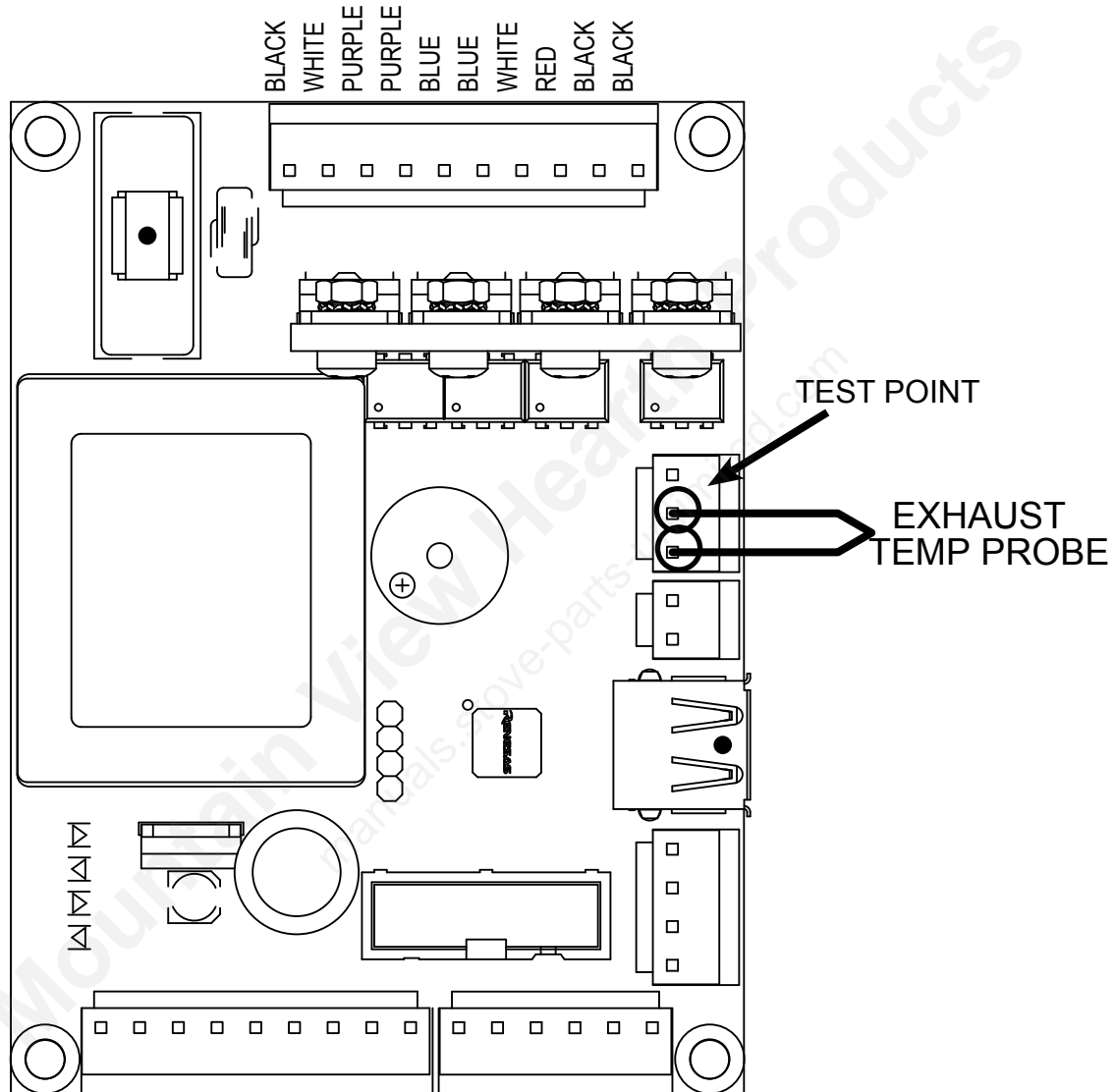
HOME



PELPRO TROUBLE SHOOTING MANUAL

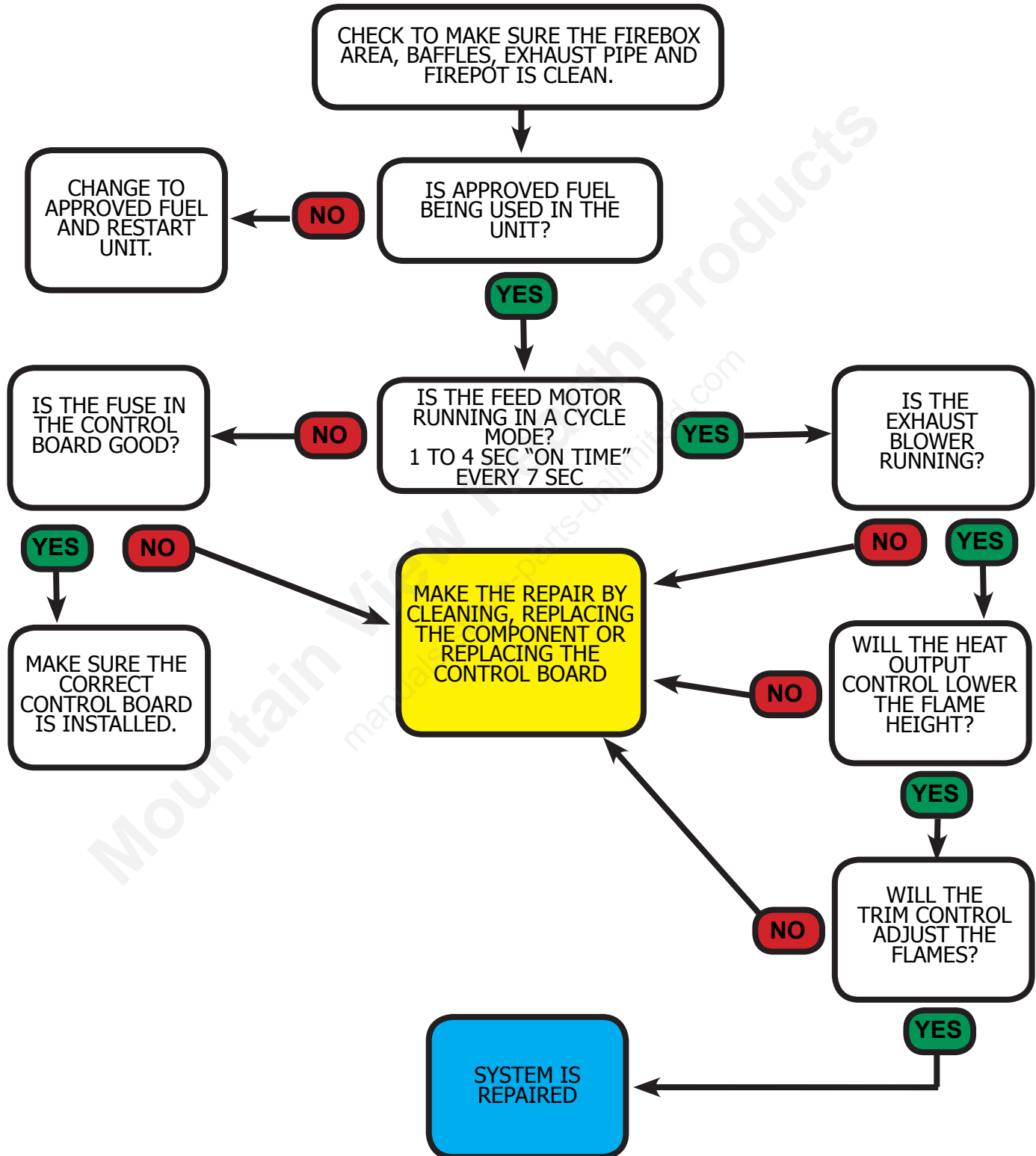
PPC90 STOVE

CODE #7: EXHAUST OVER TEMPERATURE



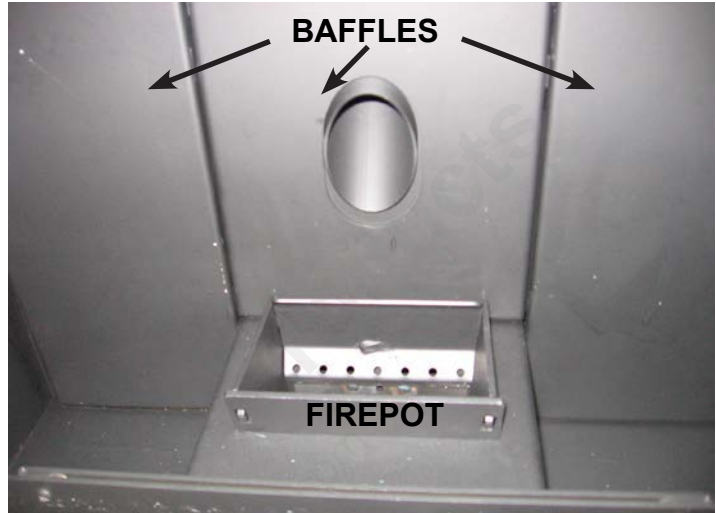
AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

LAZY OR SOOTY FLAMES

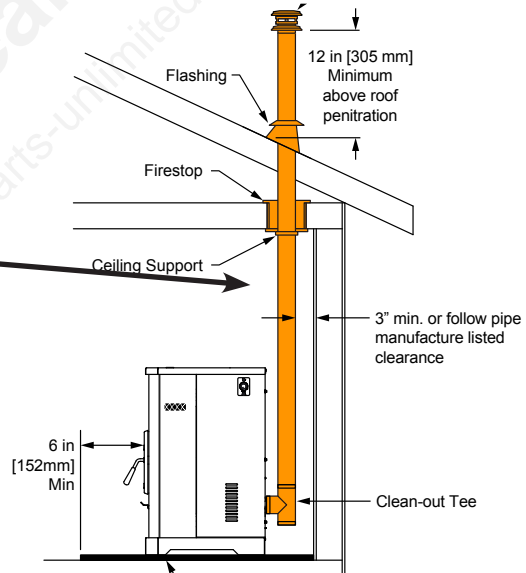


LAZY OR SOOTY FLAMES

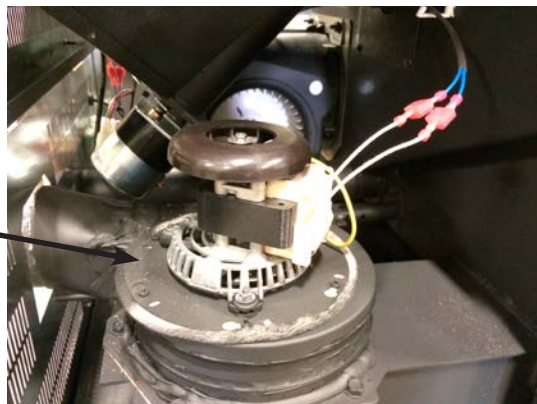
1) CLEAN FIREPOT AND BAFFLES



2) CLEAN THE VENT SYSTEM



3) CLEAN THE EXHAUST BLOWER

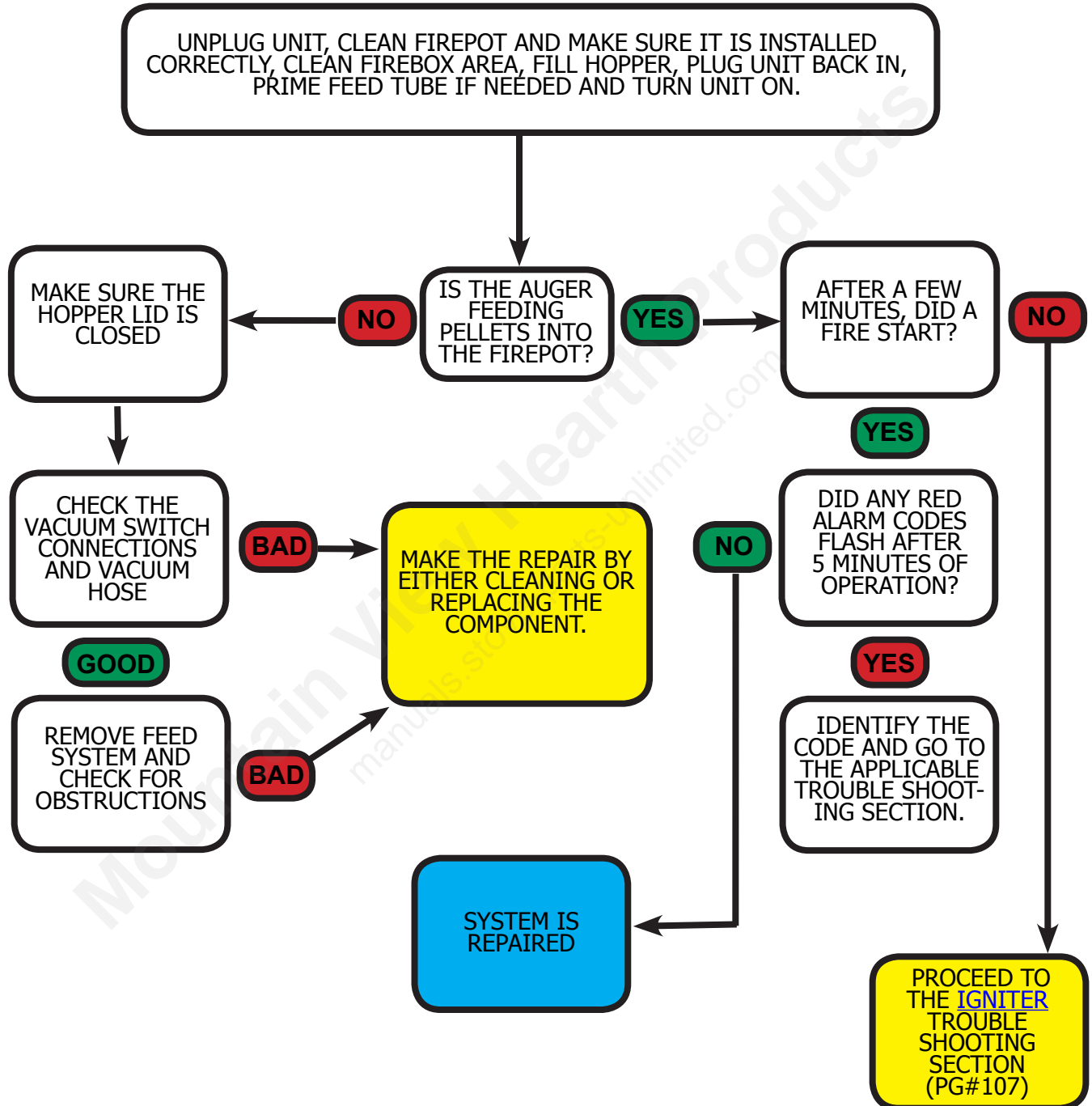


PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #1: FUEL FEED ALARM

HOME

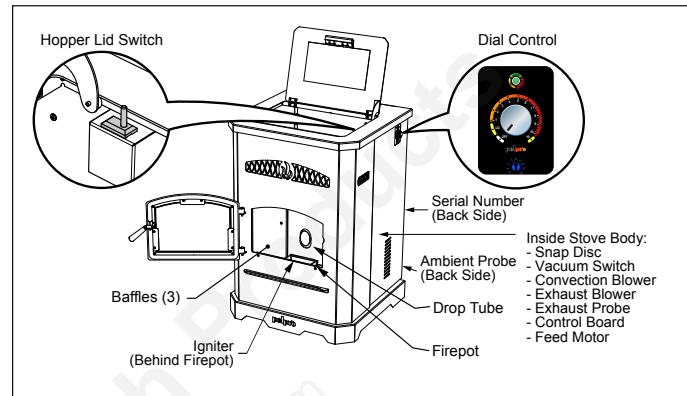


PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #1: FUEL FEED ALARM

1) CHECK TO SEE IF THE HOPPER IS EMPTY



2) CHECK FOR A FEED MOTOR JAM



3) CHECK FLAME HEIGHT ADJUSTMENT.

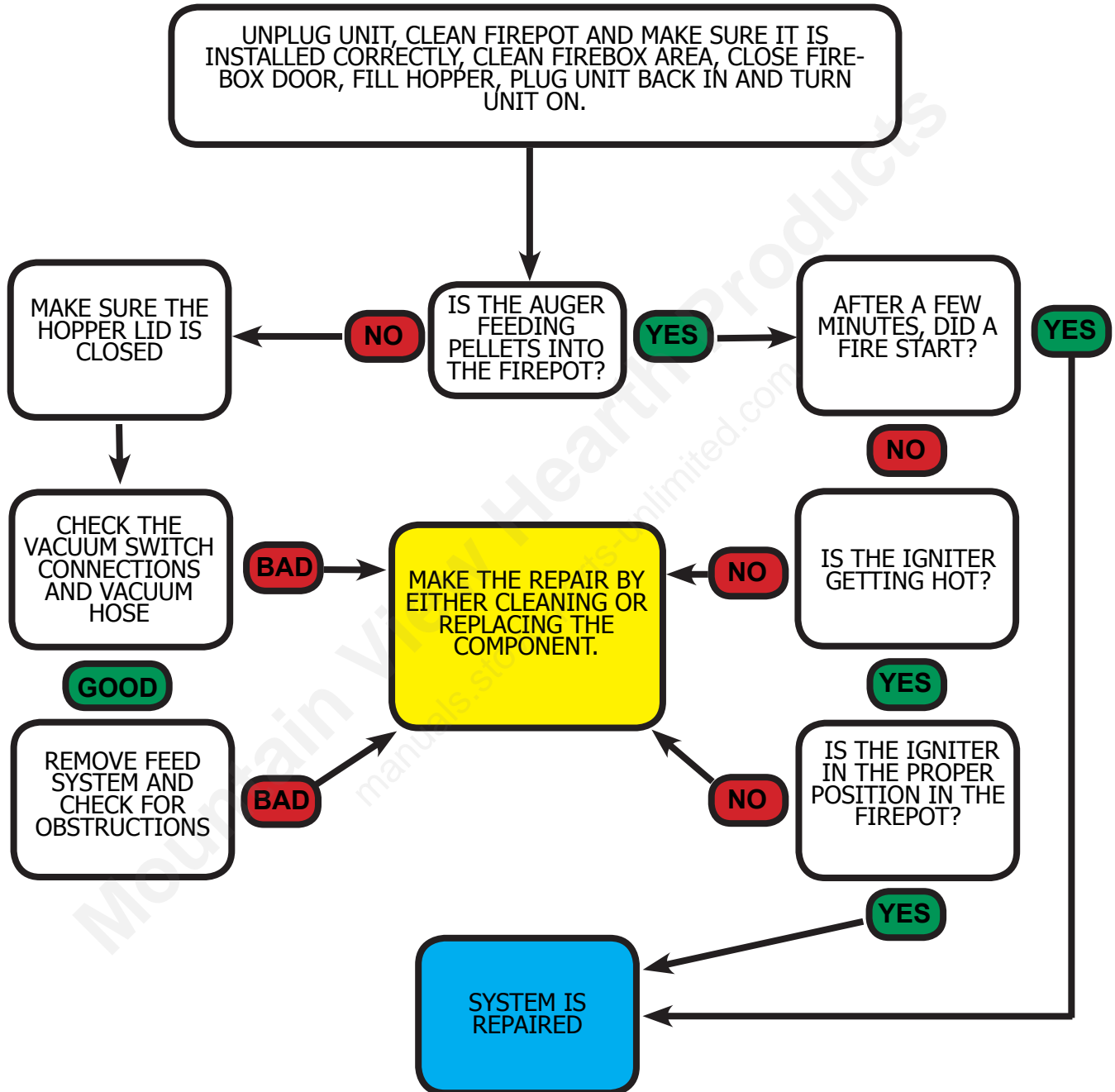


PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #4: MISSED IGNITION

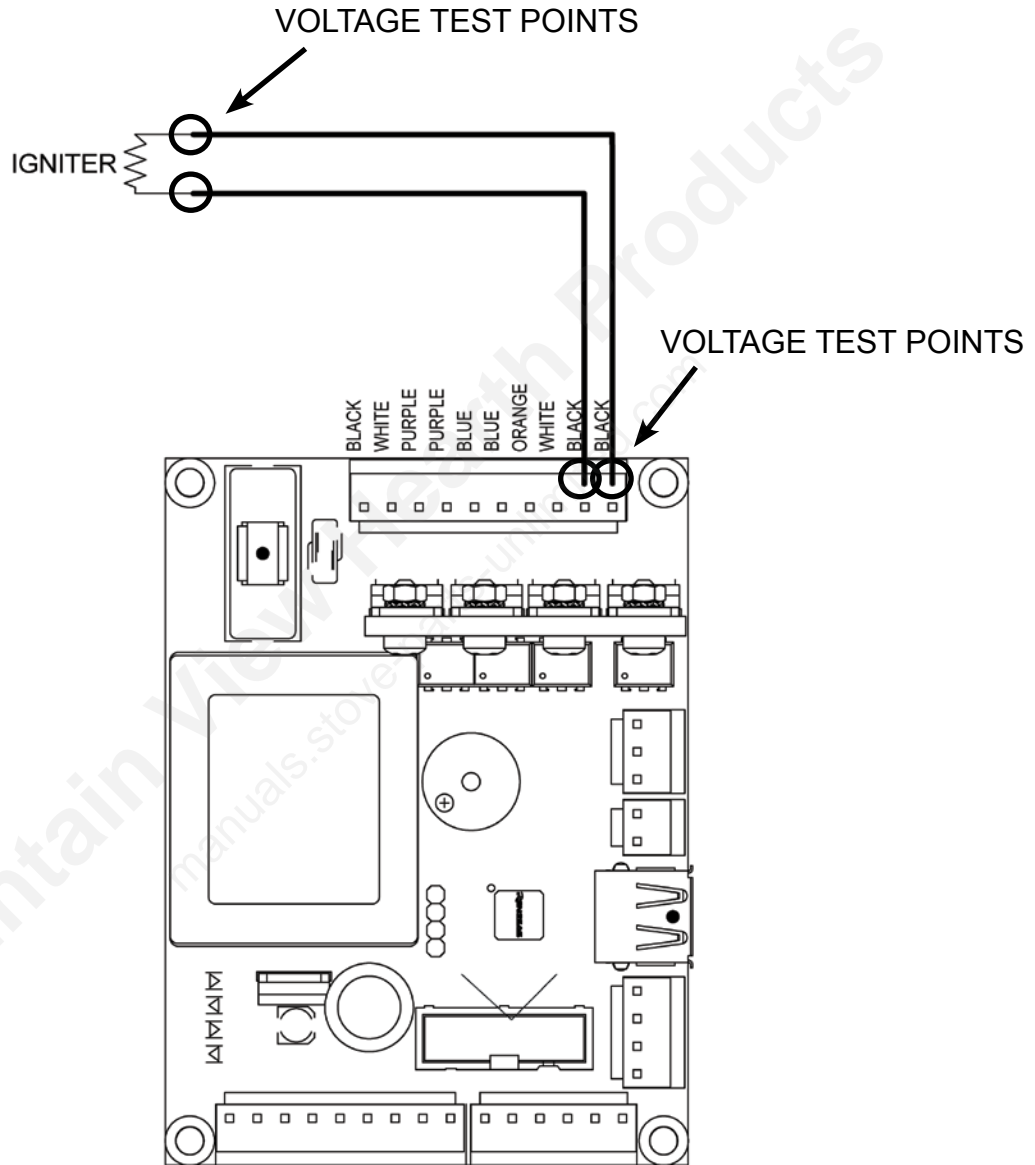
HOME



PELPRO TROUBLE SHOOTING MANUAL
PPC90 STOVE

CODE #4: MISSED IGNITION

IGNITER TROUBLE-SHOOTING



IGNITER SPECS:
300W /// 115 VAC
RESISTANCE: 48 OHMS

PELPRO TROUBLE SHOOTING MANUAL

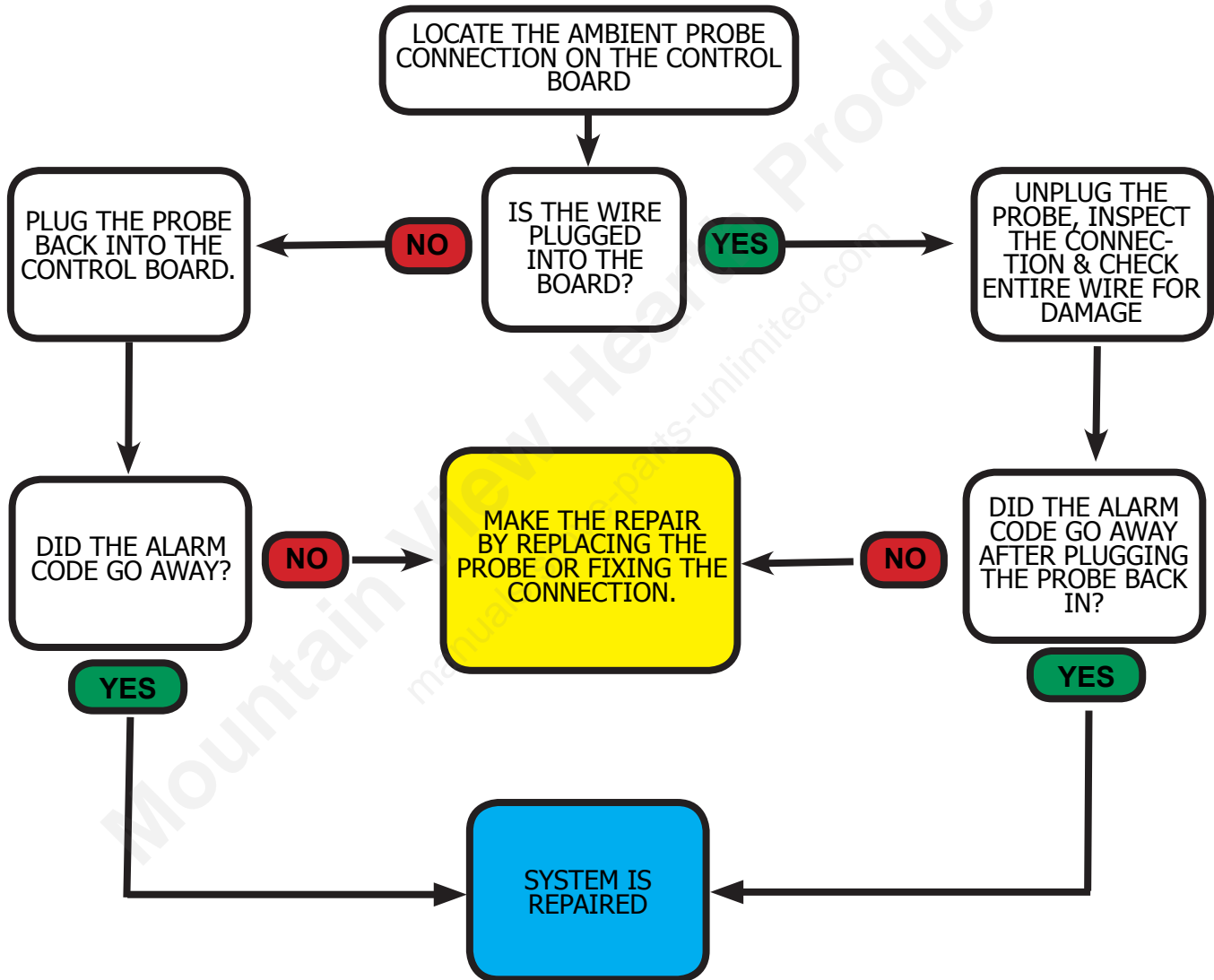
PPC90 STOVE

CODE #3: AMBIENT PROBE ALARM

HOME

TECH TIP:

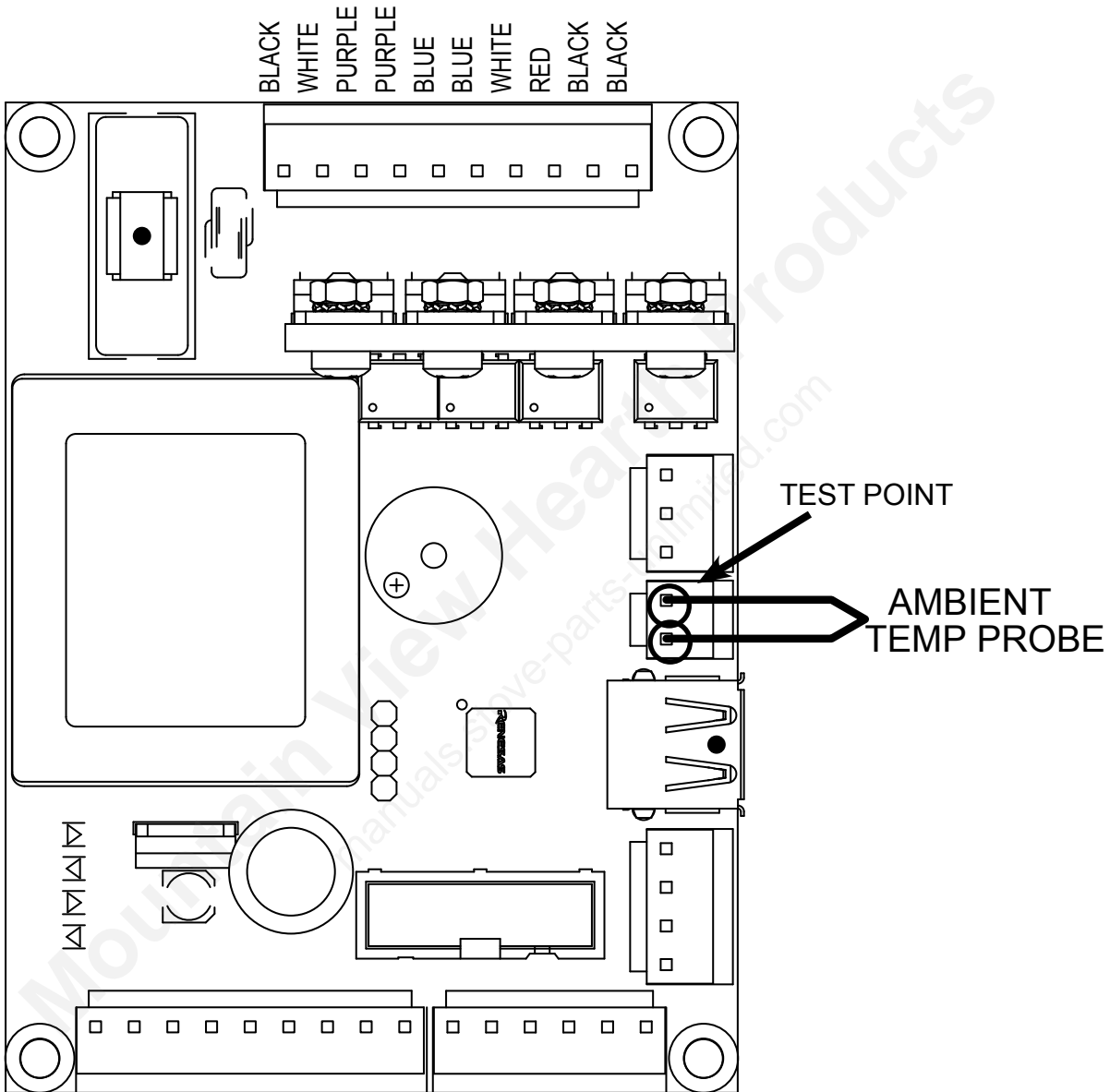
THE PROBE WILL SENSE TEMPERATURE IN THE ROOM. IF THE UNIT IS CYCLING TOO MUCH, MOVE THE PROBE FARTHER AWAY FROM THE STOVE.



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #3: AMBIENT PROBE ALARM



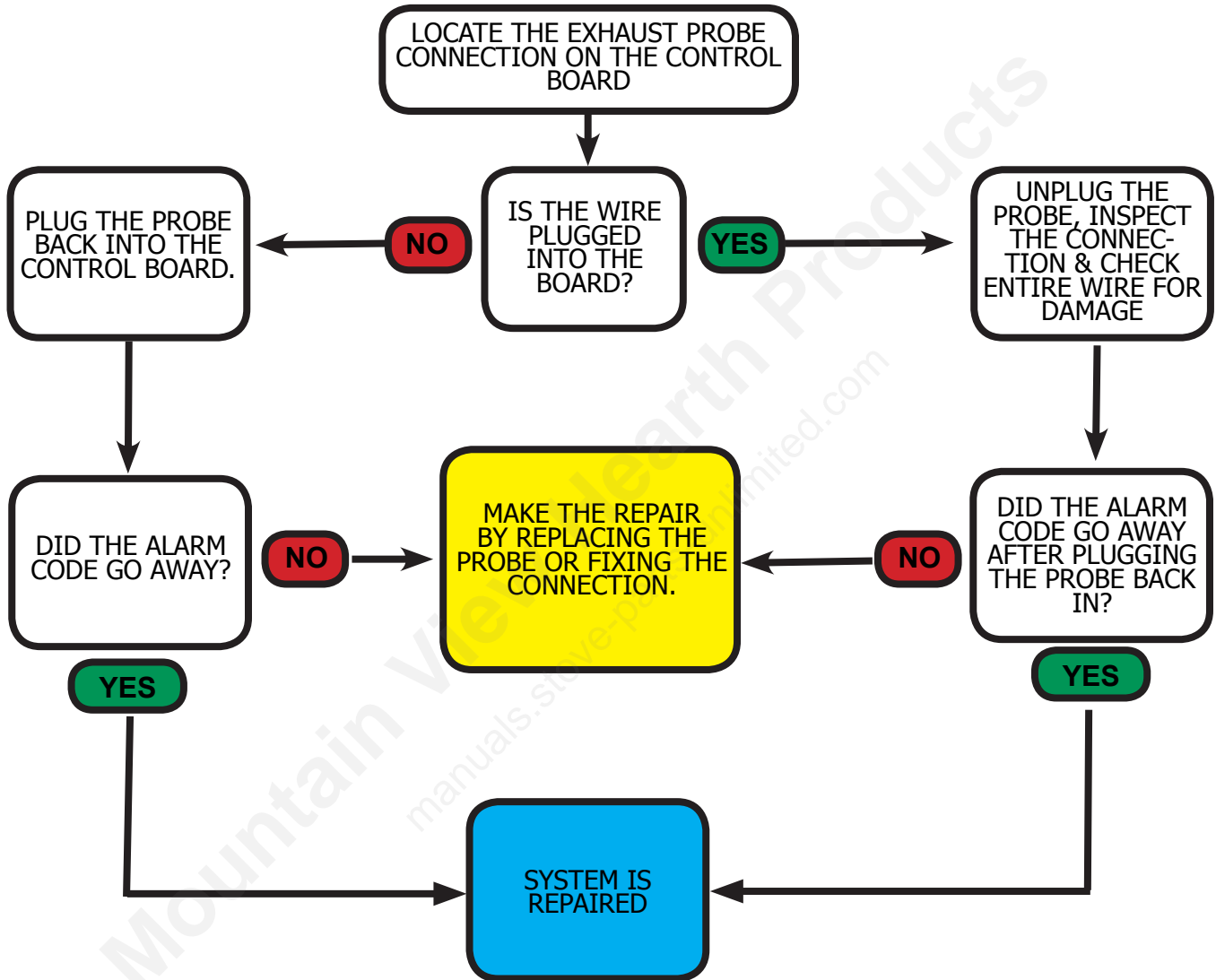
AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #2: EXHAUST PROBE FAIL

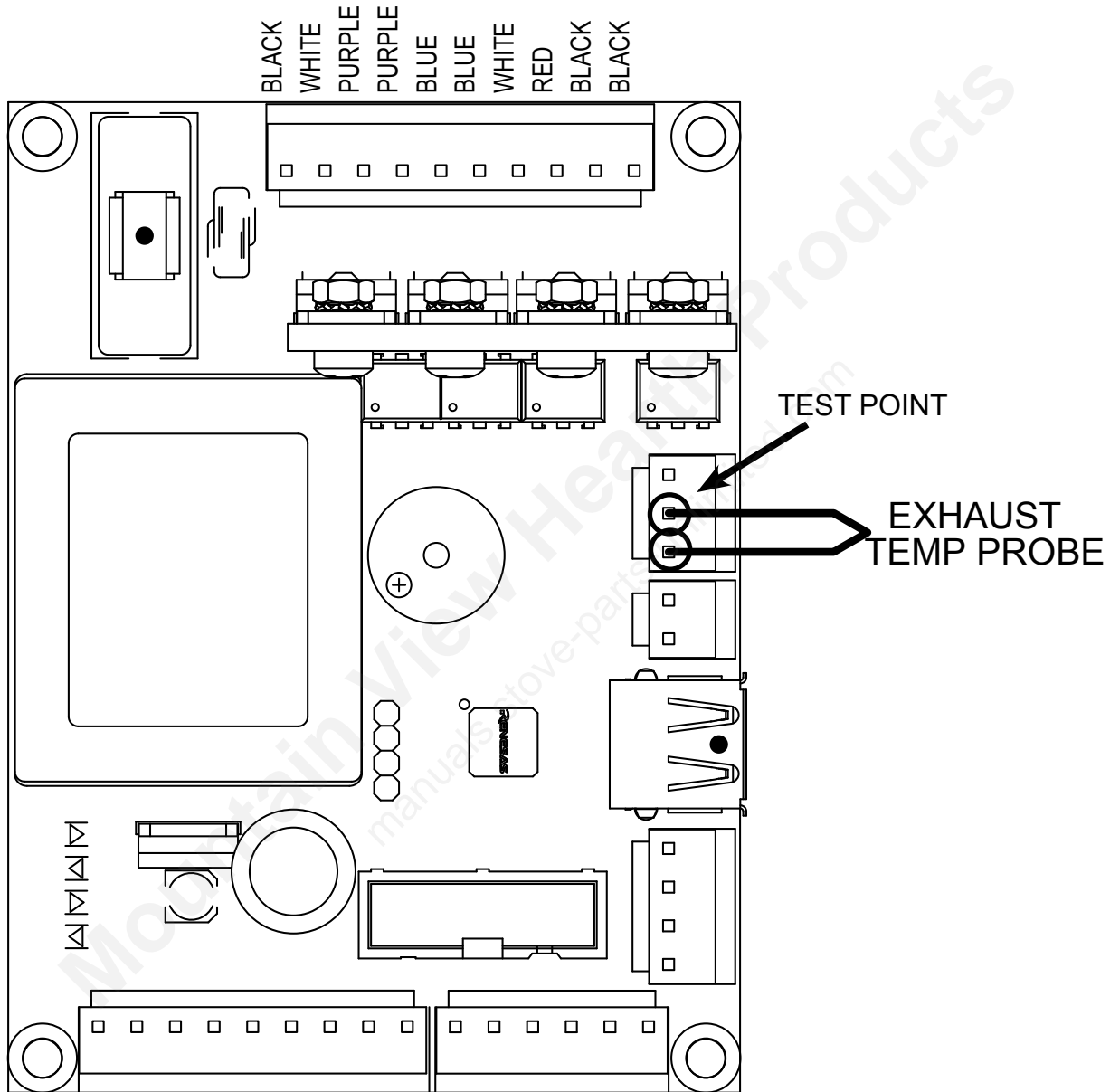
HOME



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

CODE #2: EXHAUST PROBE FAIL



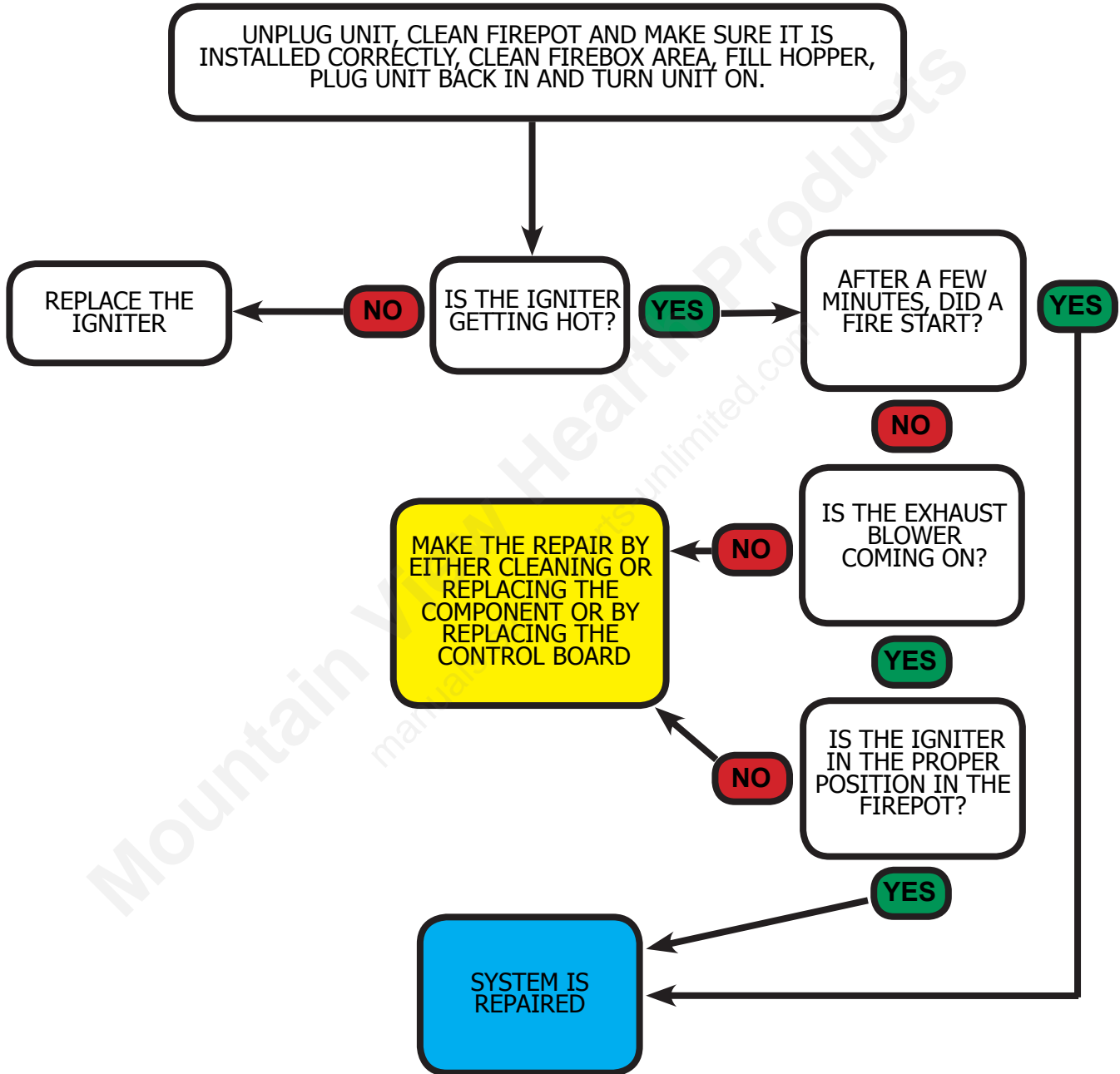
AT ROOM TEMPERATURE, THE EXHAUST PROBE WILL READ AROUND 100K OHMS. AS HEAT IS APPLIED TO THE PROBE, THE OHMS READING WILL CONTINUE TO GET SMALLER.

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

NOT LIGHTING THE FUEL

HOME



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

NOT LIGHTING THE FUEL

1) CHECK IGNITER



2) CHECK FIREPOT POSITION

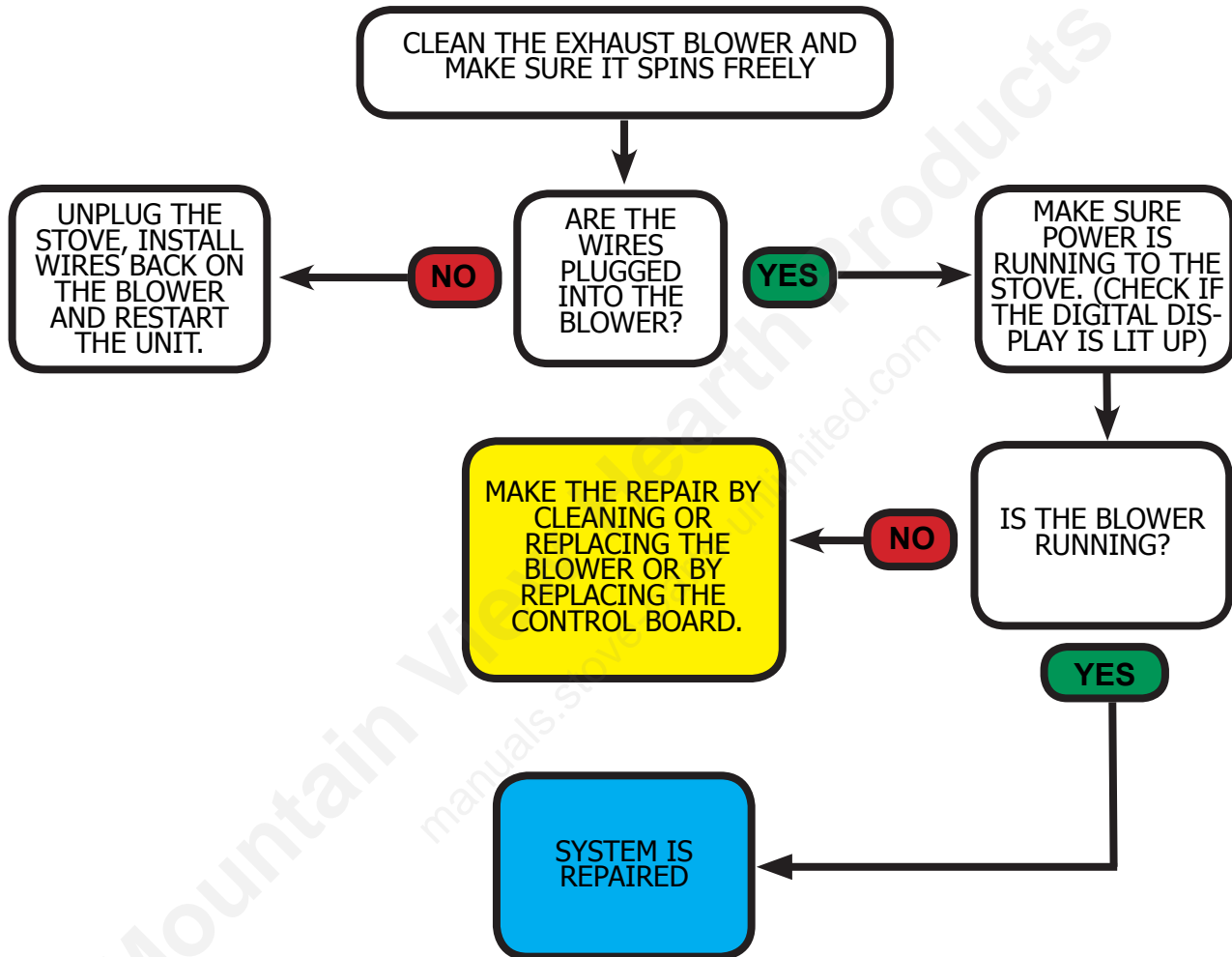


PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

EXHAUST BLOWER NOT COMING ON

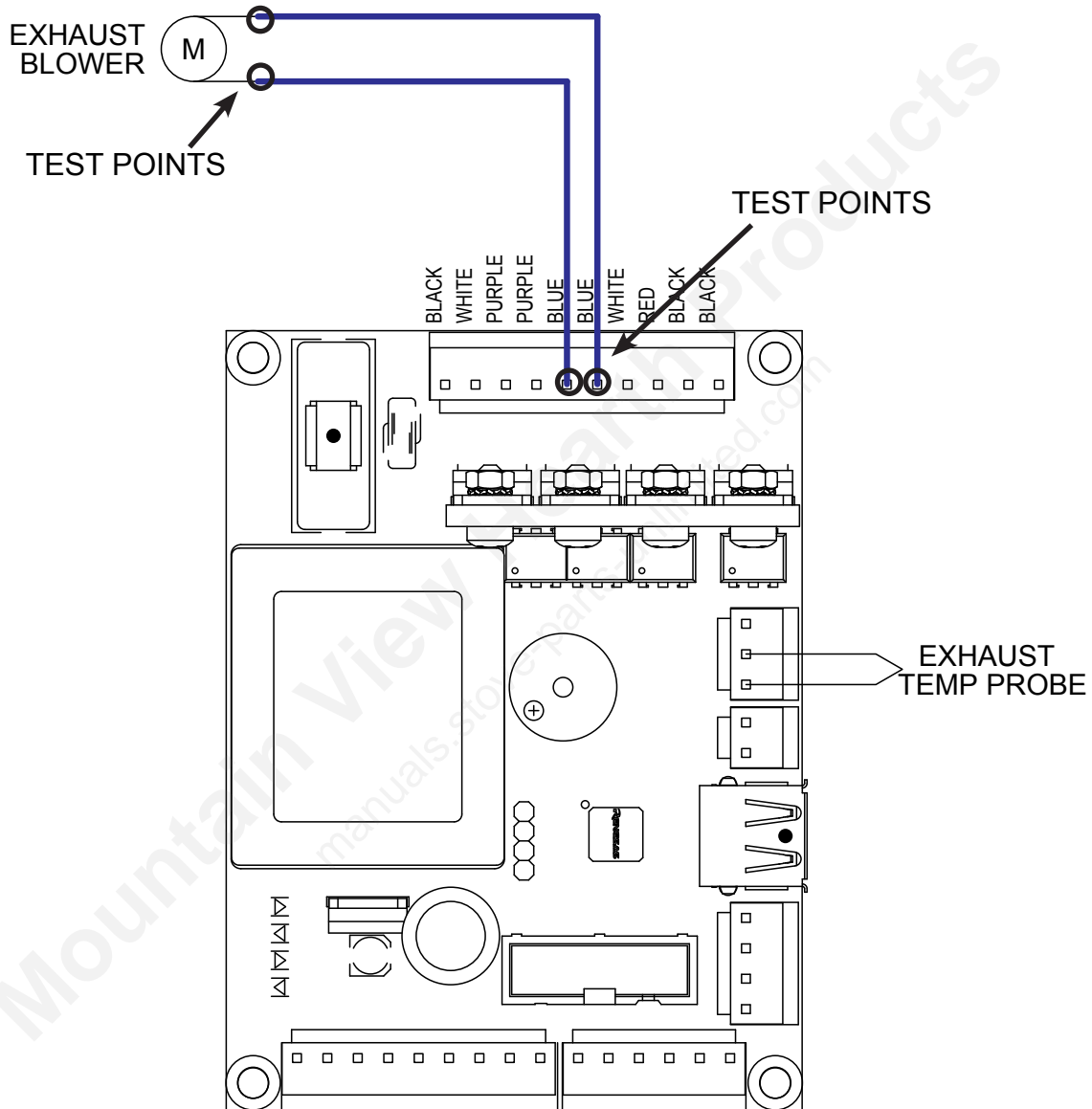
HOME



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

EXHAUST BLOWER NOT COMING ON



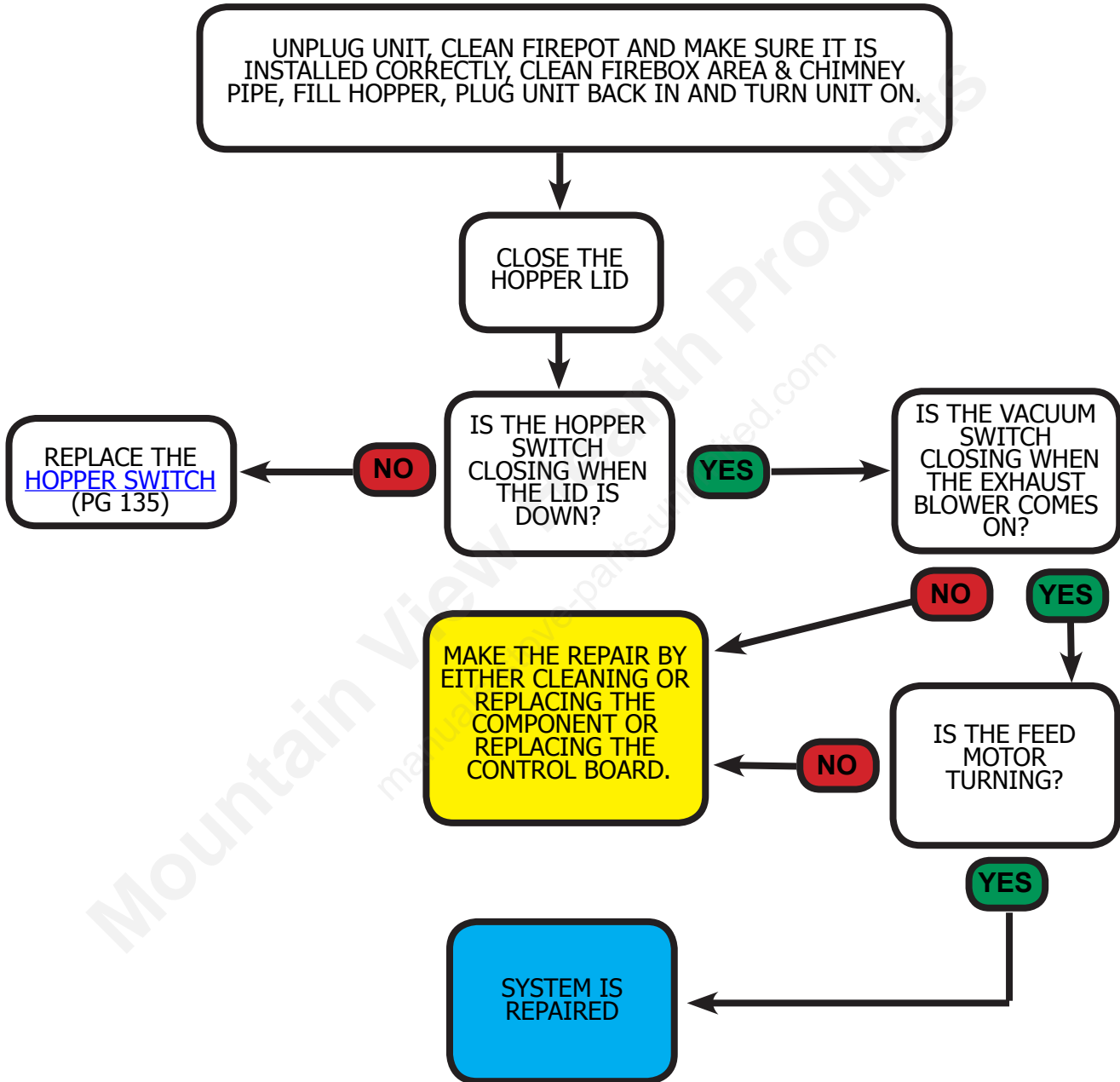
Refer to the specifications sheet for exhaust blower voltages.

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

HOME

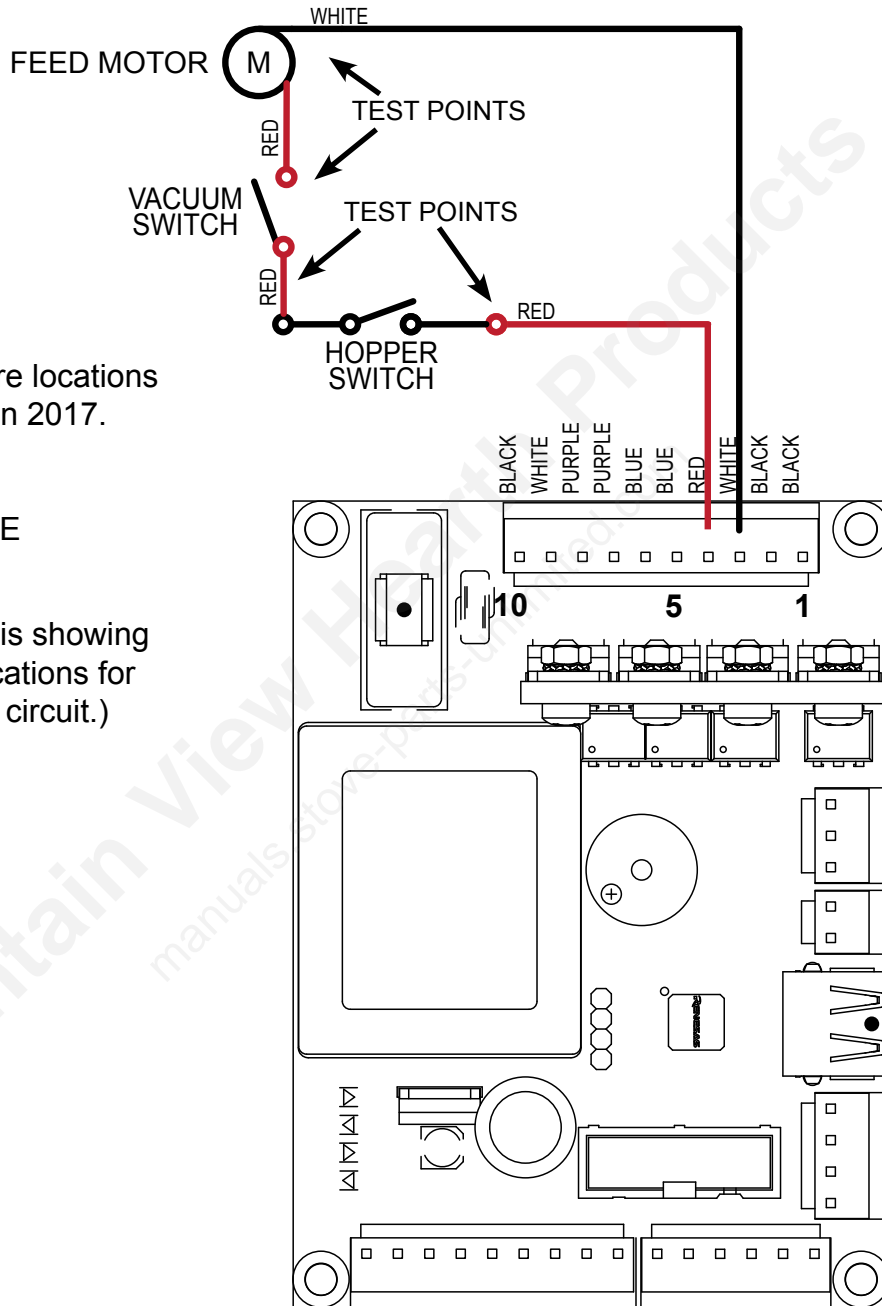
NOT FEEDING PELLETS



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

NOT FEEDING PELLETS



Tech Update:

Feed circuit wire locations were updated in 2017.

ECO# 83592

Pin #3 = RED

Pin #4 = WHITE

(Wire diagram is showing the old wire locations for the feed motor circuit.)

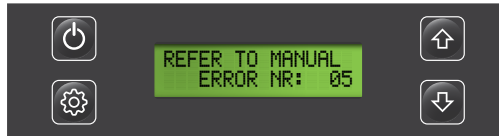
HOPPER SWITCH IS CLOSED WHEN THE HOPPER LID IS CLOSED.
VACUUM SWITCH IS CLOSED WHEN THE EXHAUST BLOWER IS ON.
FEED MOTOR RUNS ON 115 VAC.
ALL CIRCUITS MUST BE CLOSED FOR THE FEED MOTOR TO WORK.

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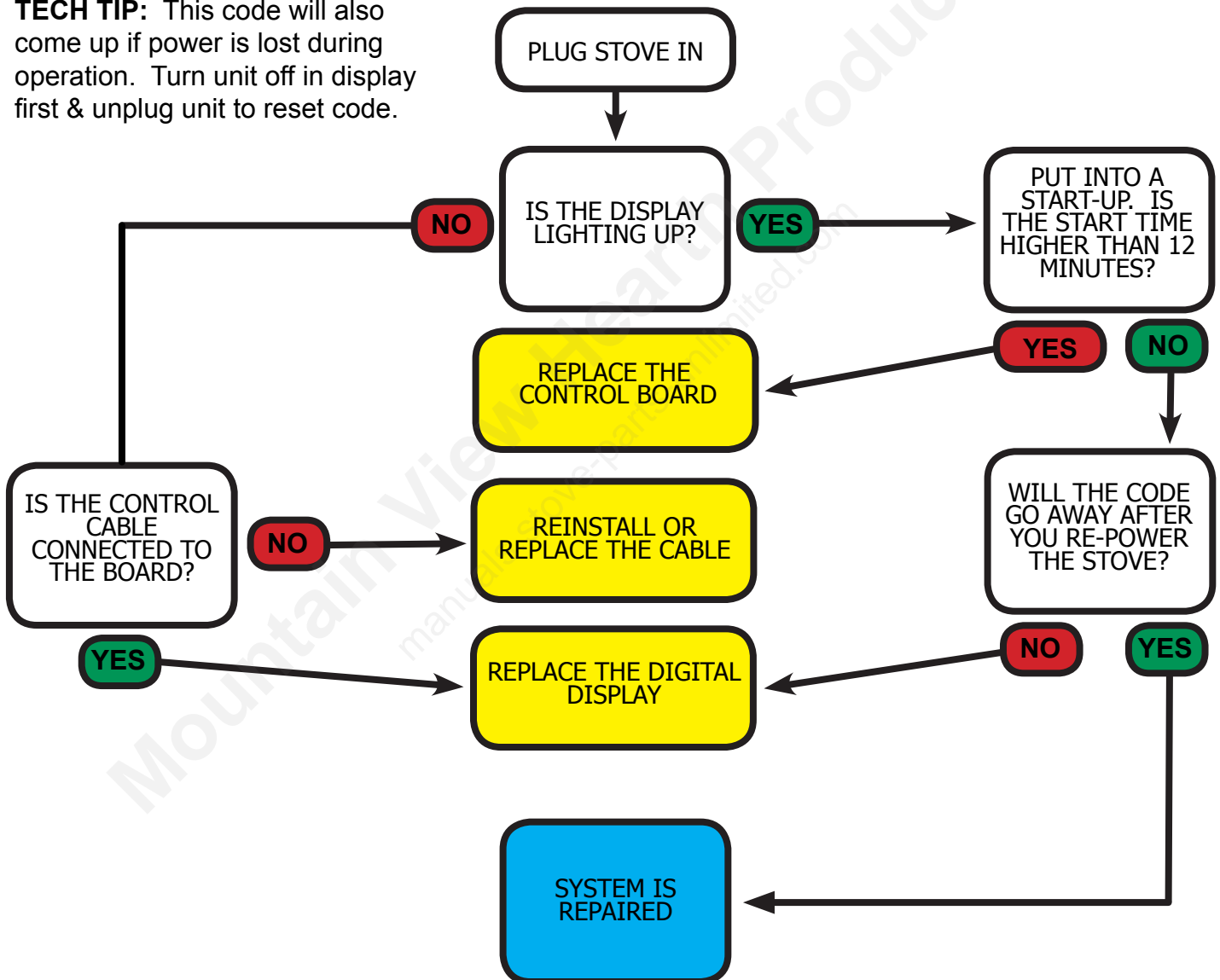
PPC90 STOVE

CODE #5: DIGITAL DISPLAY ALARM

HOME



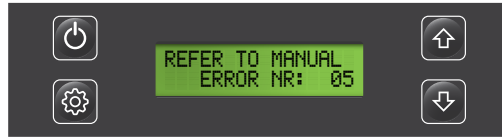
TECH TIP: This code will also come up if power is lost during operation. Turn unit off in display first & unplug unit to reset code.



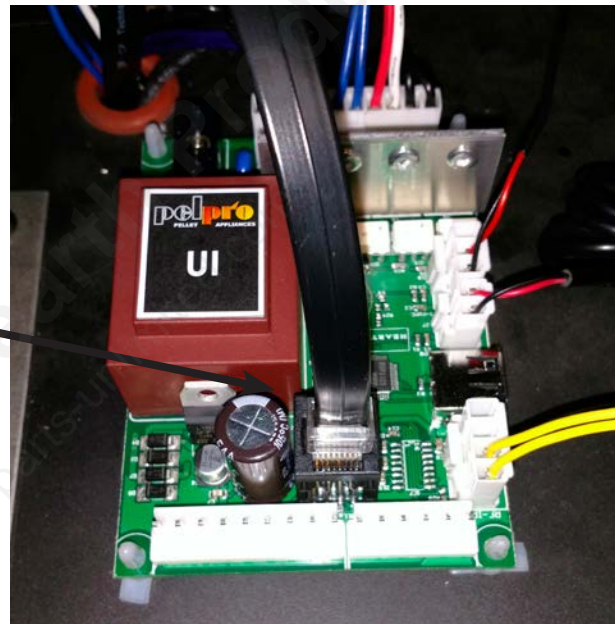
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CODE #5: DIGITAL DISPLAY ALARM



1) CHECK THE CABLE CONNECTION FROM THE CONTROL TO THE BOARD.

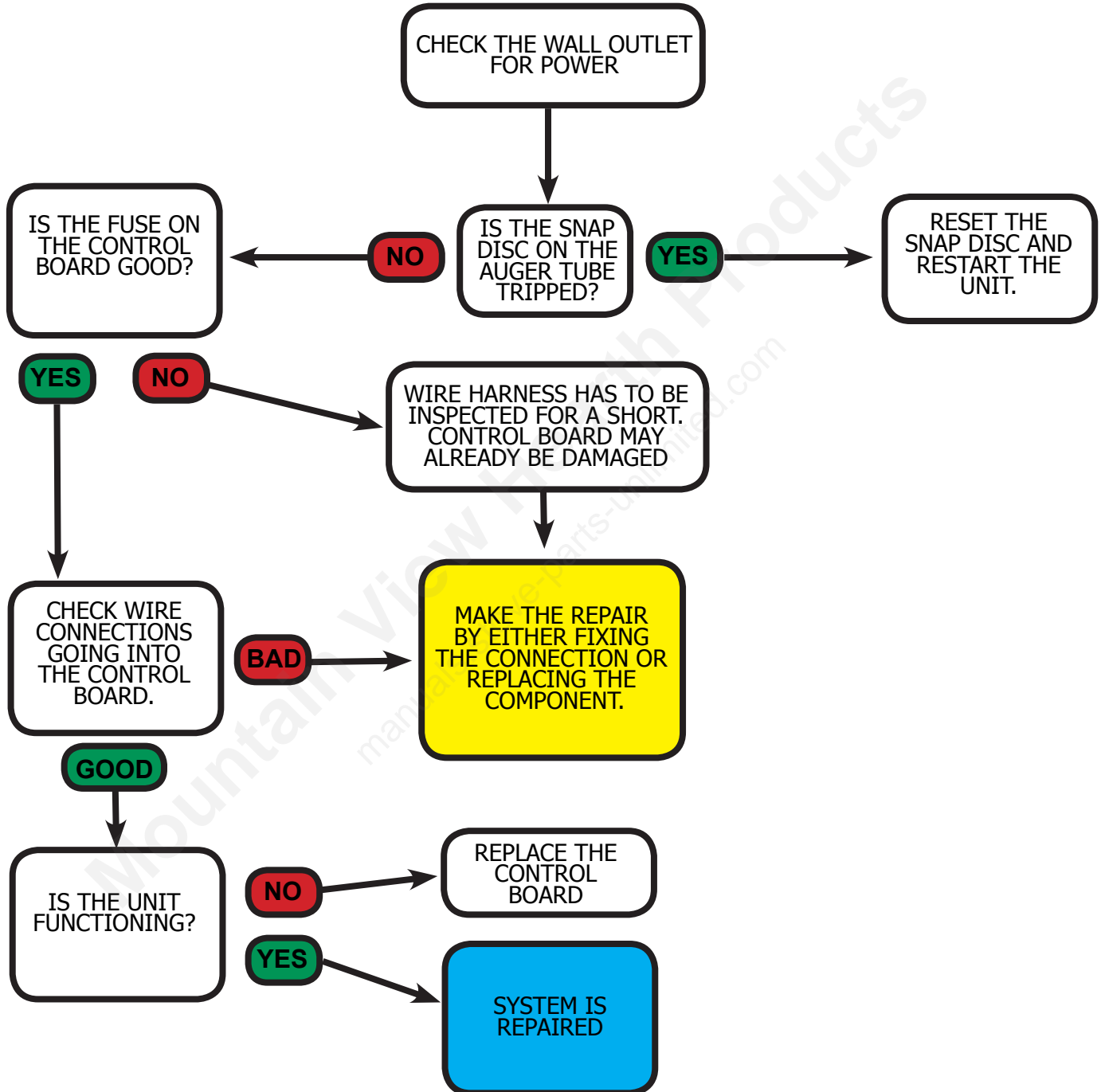


2) IF YOU CAN PUT THE UNIT IN A "START-UP", CHECK THE START UP TIME. IT SHOULD BE 12 MINS OR SHORTER. IF THE TIME SAYS AROUND 21 MINS, THE BOARD WILL NEED TO BE REPLACED.



NO POWER

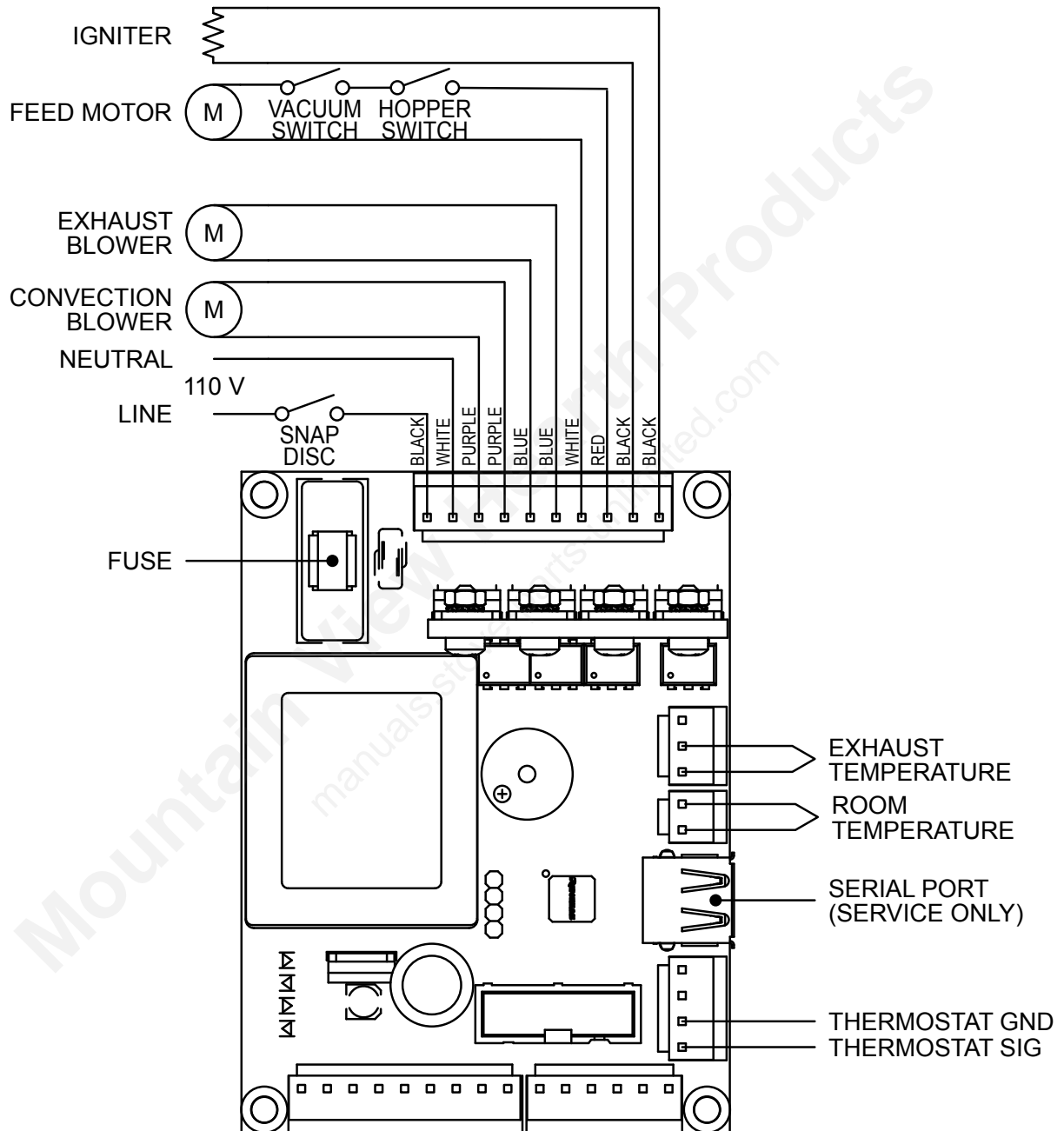
HOME



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PPC90 STOVE

NO POWER



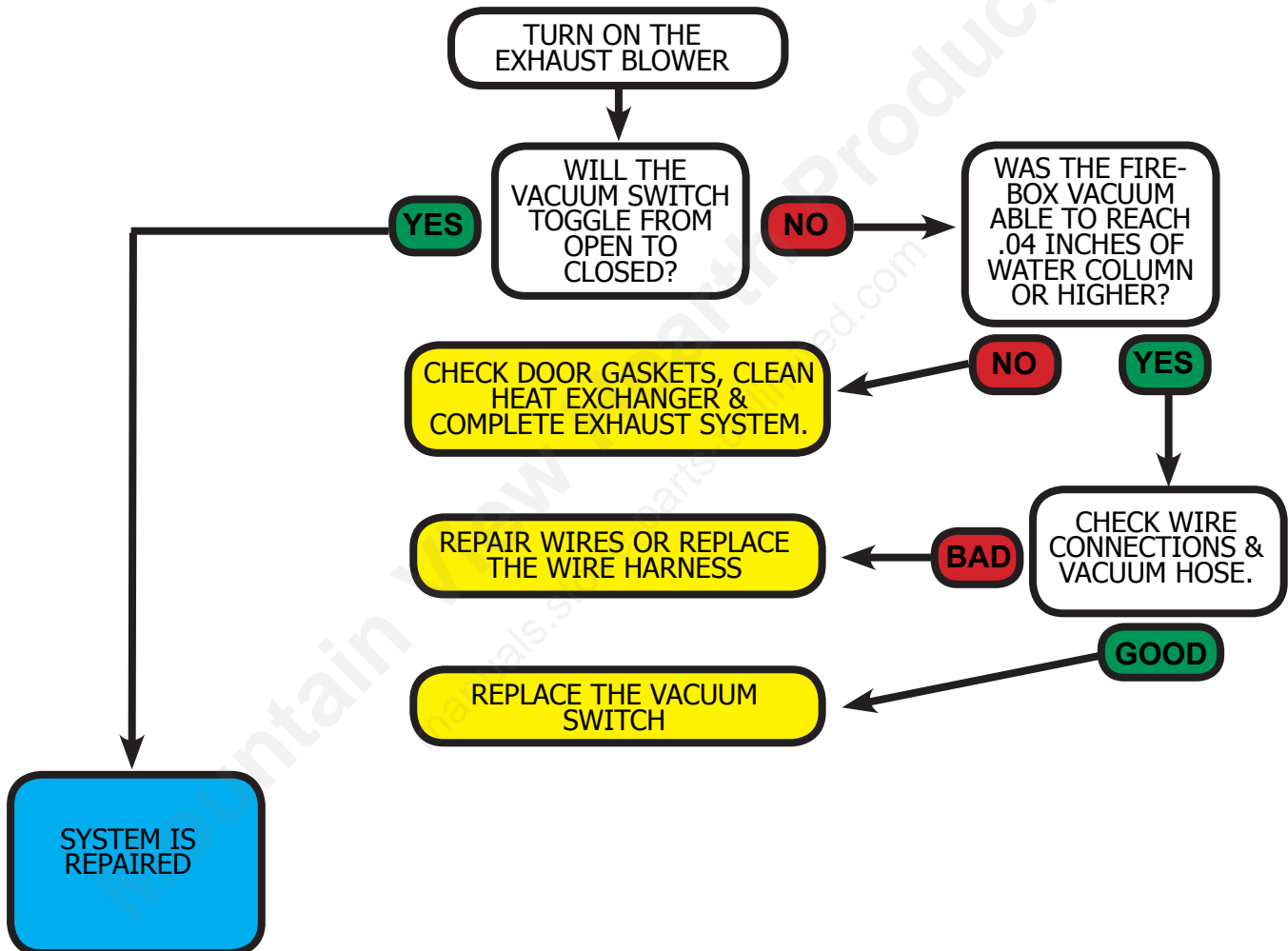
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PPC90 STOVE

FIREBOX VACUUM & VACUUM SWITCH TROUBLE-SHOOTING

HOME

VACUUM SWITCH PART#
SRV7000-531



VACUUM SPECS WITH DIAL CONTROL ON "0" TRIM:

COLD STOVE, 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

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

FIREBOX VACUUM & VACUUM SWITCH TROUBLE-SHOOTING

STEP 1) INSTALL A VACUUM "T" BETWEEN THE VACUUM SWITCH AND DROP TUBE.

STEP 2) INSTALL THE VACUUM GAUGE TO THE "TEE".

STEP 3) DISCONNECT THE CONNECTOR FOR THE HALL SENSOR FROM THE CONTROL BOARD.

**note: This will allow the blower to run at MAX speed.

STEP 4) 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.*

STEP 5) 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 STOVE & NO FIRE).

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

TECH TIPS:

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 unit is clean before making any repairs.

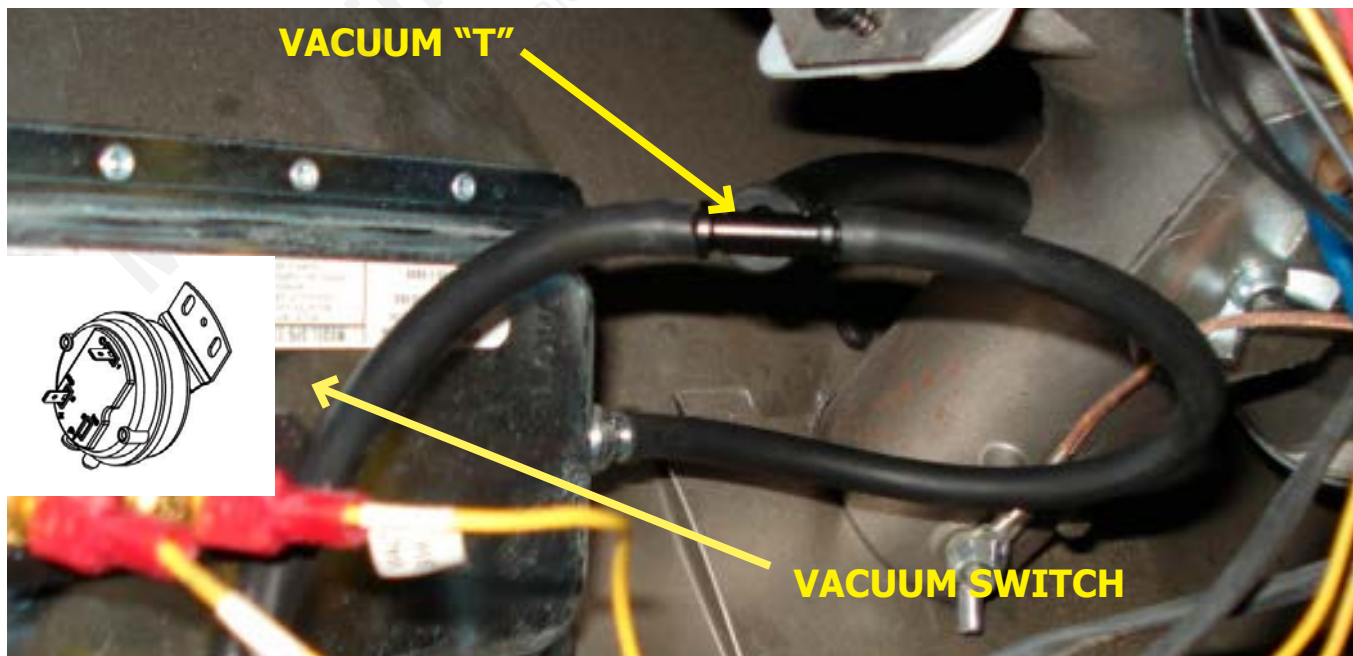


(VACUUM GAUGE)

RED= LOW VACUUM

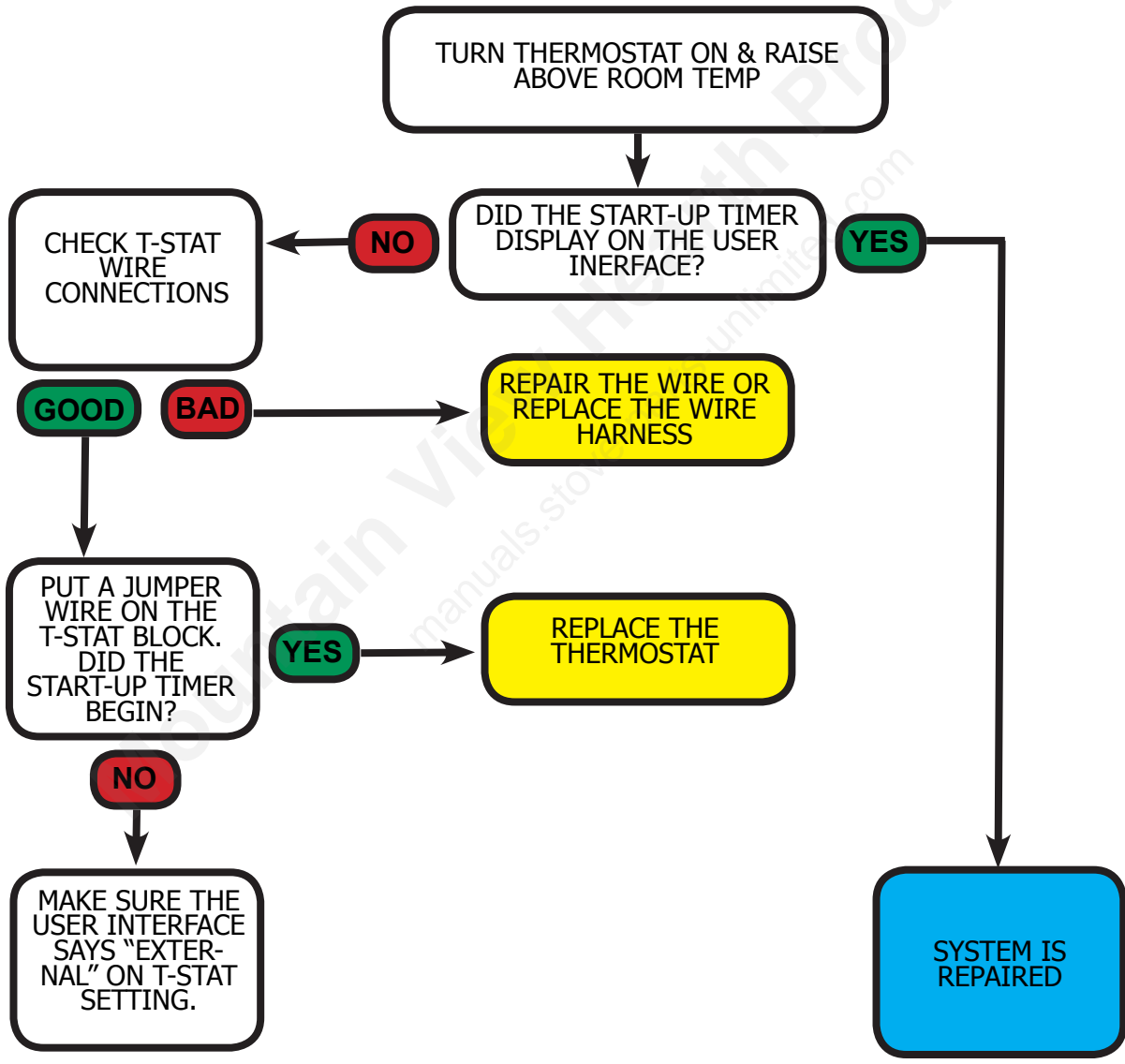
GREEN= OPERATING RANGE

BLUE= SHUTDOWN



THERMOSTAT TROUBLE-SHOOTING

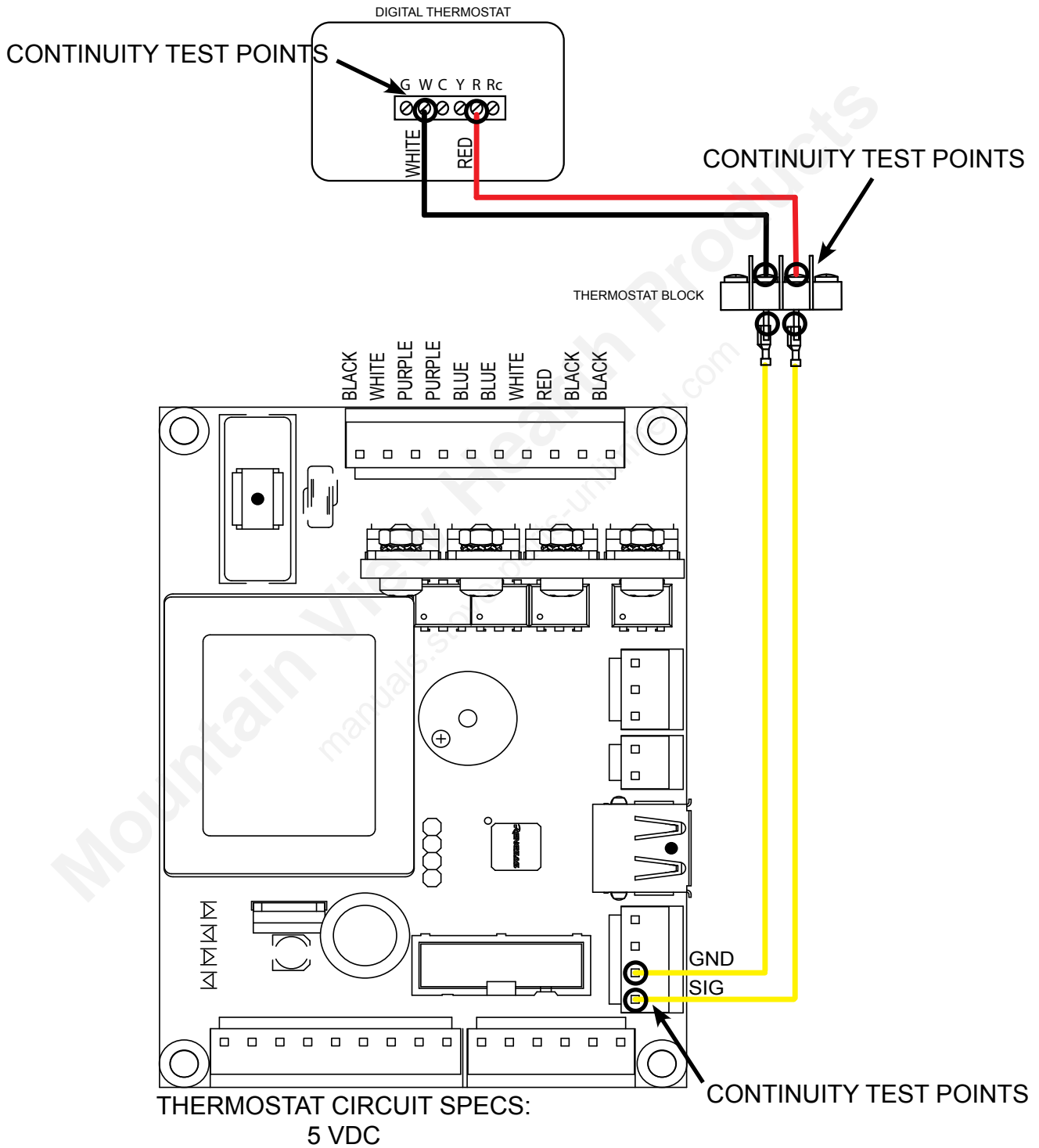
HOME



PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

THERMOSTAT TROUBLE-SHOOTING



PPC90 STOVES

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FEED MOTOR REPLACEMENT

HOME

FEED MOTOR



The feed motor is located on the back of the unit towards the bottom. Removing the rear screen and left side panel is the best way to access the motor. Once access is gained, simply pulling the pin on the auger shaft will release the feed motor.

IGNITER REPLACEMENT

HOME

IGNITER



The igniter is located at the back of the firebox in the middle.

Removing the left access panel will allow you to see it. There is a Phillips head screw holding the igniter in place.

EXHAUST BLOWER REPLACEMENT

HOME

EXHAUST BLOWER



Remove the left side panel to access the blower. A Phillips head screwdriver will be needed to remove the blower from the housing.

CONVECTION BLOWER

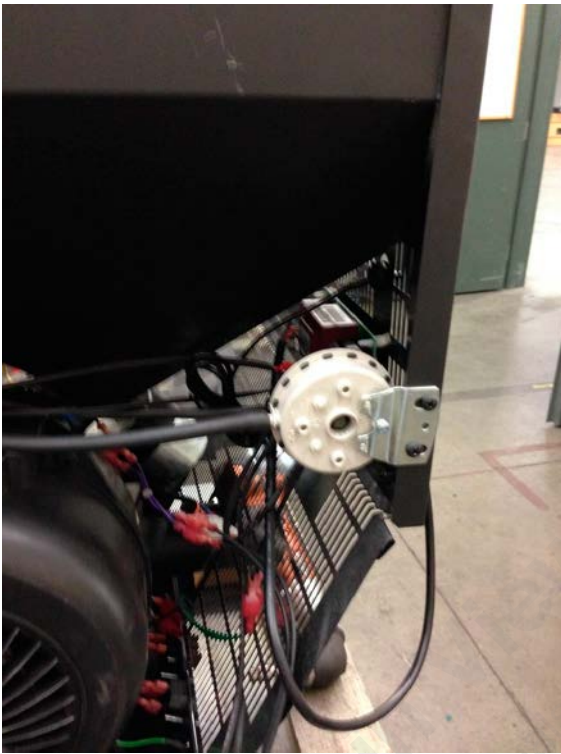


Remove the right side panel to access the blower. Two wing nuts hold it in place. Removal is a little tight, so the blower will need to be rotated a little to get it out. Removing the vacuum switch is a good option if you need a little more room taking the blower out.

VACUUM SWITCH REPLACEMENT

HOME

VACUUM SWITCH



Remove the right side panel. Two Phillips screws hold it in place.

PELPRO TROUBLE SHOOTING MANUAL

PPC90 STOVE

EXHAUST PROBE REPLACEMENT

[HOME](#)

EXHAUST TEMP PROBE



Remove the left side panel to access the probe. Two Phillips head screws hold it in place.

Probe

SNAP DISC REPLACEMENT

HOME

#3 SNAP DISC



Remove the left side panel to access the snap disc. Two Phillips head screws hold it in place.

HOPPER SWITCH REPLACEMENT

HOME

HOPPER SWITCH



It is located under the hopper lid on the right side the stove. The right side panel will need to be removed to access the 2 mounting screws for the hopper switch bracket.

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PELPRO TROUBLE SHOOTING MANUAL
PPC90 STOVE

PPC90 SPECIFICATIONS

HOME

WATTS: EXHAUST BLOWER CONVECTION BLOWER IGNITER FEED MOTOR	56w 288w 300w 15w
AMPS: EXHAUST BLOWER CONVECTION BLOWER IGNITER FEED MOTOR	.47A 2.4A 2.5A 125mA
CONVECTION BLOWER VOLTS: LOW TO HIGH (VAC)	62v to 115v
EXHAUST BLOWER VOLT RANGE (76 TO 109+/- 2v, 0 trim): POWER LEVEL 1 POWER LEVEL 2 POWER LEVEL 3 POWER LEVEL 4 POWER LEVEL 5	76v 80v 87v 95v 109v
FEED MOTOR "ON" TIMES at 0 trim: POWER LEVEL 1 POWER LEVEL 2 POWER LEVEL 3 POWER LEVEL 4 POWER LEVEL 5	0.9 1.5 1.9 2.3 2.7
BTU INPUT: POWER LEVEL 1 POWER LEVEL 2 POWER LEVEL 3 POWER LEVEL 4 POWER LEVEL 5	11,055 47,378
CONVECTION BLOWER CFM:	250
HOPPER CAPACITY: FREESTANDING	90 lbs
VACUUM: (COLD STOVE, EXHAUST BLOWER VOLTS 115, FUEL IN HOPPER)	.14" TO .21"wc

Note: stove was plugged into a 115V outlet. Voltages can vary depending on volts from the outlet.

PELPRO TROUBLE SHOOTING MANUAL

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