



PELLET TROUBLE SHOOTING GUIDE

I. FUEL WILL NOT FEED?

Auger light stays off when auger button is depressed.

NOTE: The air flow switch and the high temp thermodisk cause the auger light to go out when they open.

-CHECK AIR FLOW SWITCH:

- A. By pass air flow switch and push auger button.
- B. If auger light stays off, go to high temp thermodisk.
- C. If auger light stays on:
 - 1. Check air hose for cracks or bad connection.
 - 2. Check 1/4" pipe for blockage.
 - 3. Check exhaust pipe for blockage.
 - 4. Check door for excessive leakage.
 - 5. Check combustion blower:
 - a. Is it running?
 - b. Is it plugged with soot or creosote?
 - c. Is it getting 120 volts?
 - 6. Check wire connections.
 - 7. Air switch may be faulty (replace).

-CHECK HIGH TEMP THERMODISK: (60T21, Normally Closed)

- A. By pass thermodisk and push auger button.
- B. If auger light comes on:
 - 1. Replace thermodisk.
 - 2. Check switch for continuity (normally closed).
 - 3. Check wire connections.

II. FUEL WILL NOT FEED?

Auger light comes on when auger button is depressed.

-CHECK VOLTAGE WHERE YELLOW WIRE ATTACHES TO AUGER THERMODISK:

- A. Should show 120 Volts.
- B. If no voltage:
 - 1. Check male end of Molex connector (Yellow wire push connector may not be all the way in).
 - B. Replace board if necessary.

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IF YOU HAD POWER TO AUGER THERMODISK:

-BY PASS AUGER THERMODISK (60T22, Normally Open)

- A. If auger motor runs, replace thermodisk (60T22).
 - B. If auger motor does not run:
 - 1. Push manual feed or disconnect auger motor leads and connect directly to wall plug. (Replace if faulty)
 - a. Auger motor gears may be slipping or damaged.
 - b. Thermal protection may have tripped out motor. (This would be rare).
 - C. If auger motor operates and pellets still don't feed:
 - 1. Check set screws for tightness in auger coupling.
 - 2. If auger motor "HUMS" but coupling does not turn, the auger shaft is jammed. (Remove auger)
 - D. Auger Shaft:
 - 1. Disconnect auger coupling from auger motor.
 - 2. Empty pellets in hopper.
 - 3. Remove biscuit or bearing sleeve by removing the two screws in bottom of auger housing.
 - 4. Pull auger and inspect.
 - a. The weld should be on the top of the top flight.
 - b. Auger flight pitch is 1 1/8" center to center (2" on P22).
- NOTE: Measure from the tip of the top flight to the top of the next flight down. (1 1/8")**

III. STOVE SHUTS DOWN:

Auger shuts down after it burns fine for a period of time. The auger light goes out when stove shuts down.

- A. Determine if the thermal protection in convection blower is shutting the blower down.
 - 1. Ask if air is coming out of the heat exchanger tubes.

NOTE: If convection blower is shutting itself off the convection chamber is heating up above 300°. This opens the high temperature thermodisk and shuts down the auger. When stove cools the stove can be restarted. (Blower may have to be replaced)
- B. The air switch may be opening because of the negative pressure change from cold stove to hot stove.
 - 1. Tape or plug one or both sides of holes in red air switch hose.

IV. WHEN STOVE IS TURNED ON NOTHING OPERATES:

- A. Is stove plugged in?
- B. Check for 120 Volts at wall plug.
- C. Check for power where black wire is attached to terminal strip from power supply.
- D. Check for power where black wire leaves terminal strip.
 - 1. If no power pull off terminal strip and check for cracks. (Replace)

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- E. Check for 120 volts where black wire is located at male end of Molex connector.
- F. Check male end of molex connector for correct wire placement.
- G. Is black wire pulled out slightly in male end of Molex connector?
- H. If all of these procedures test out positive, replace circuit board.

V. FIRE GOES OUT LOW SETTING, THE AUGER LIGHT STAYS ON.

- A. Are pellets too long or have excessive fines?
- B. Turn low feed rate potentiometer up on circuit board.
- C. Time circuit board.
- D. Pull burnpot off, look into air inlet pipe and view damper blade. Make sure it closes all the way!
- E. Hold manual feed switch on and watch the auger coupling. It should turn 4 times in 1 minute. (1 RPM on P22) If its turning slower, check voltage or replace.
- F. Check auger motor position. It should naturally rest on rubber stop.
- G. Make sure set screws in auger coupling are tight.
- H. Pull auger shaft and check for weld on bottom of top flight and 1 1/8" pitch. (2" pitch on P22)

VI. AUGER IS DUMPING TO MANY PELLETS ON LOW SETTING:

- A. Time circuit board.
 - 1. Cycle time may be short.
 - 2. On times may be long.
- B. Adjust low end potentiometer all the way down.
- C. Push manual feed switch and count 4 RPM (1 RPM on P22) on auger motor. If times are long replace auger motor.
- D. Check wall voltage. If voltage is above 120 volts, auger motor may be running too fast.

VII. CONVECTION BLOWER WILL NOT RUN OR RUNS TOO SLOW ON LOW SETTING:

- A. Pull circuit board.
- B. Adjust the blower potentiometer located on the side of circuit board.
 - 1. Adjust until blower voltage is between 55 and 60 volts.

VIII. BLOWERS COME ON IMMEDIATELY WHEN STOVE IS PLUGGED IN:

- A. Blower thermodisk may be stuck closed. (60T22, Normally open) Replace.
- B. Black wire may be switched with the blue or pink on male end of molex connector.

IX. IRREGULAR FEED RATE:

- A. Time circuit board.
- B. Auger motor gears may be slipping or damaged.

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- C. Tighten set screws in auger coupling.
- D. Pull auger and inspect:
 1. The weld should be on top of the top flight.
 2. Auger pitch is 1 1/8" center to center. Measure from the top of the tip flight to the top of the next flight down. (1 1/8") (2" on P22)

X. GRADUAL BUILD-UP OF PELLETS IN BURNPOT OR LAZY RED FLAME:

Flame pattern does not change as damper is pulled out.

- A. If drawing outside combustion air, check for blockage in outside air pipe.
- B. If drawing inside combustion air:
 1. Make sure flashing vents are clear. May have to pull stove away from fireplace face 1/2 max.
 2. Crack a window. Is their negative pressures in the house from exhaust fans?
 3. Check the check valve. Is ball stuck in lower part of valve?
- C. Check damper rod. Is it unscrewed at coupling?
- D. Check Burnpot. Is it plugged?
- E. Have combustion chambers been cleaned?
- F. Is there a leak in door or glass gaskets?
- G. Check combustion blower. Is impeller or blower clogged with ash or creosote. Blower may be running to slow. (Check voltage)
- H. Check exhaust vent.
 1. Is it plugged with ash or ?
 2. Check equivalent vent length.

X. BUILD-UP OF PELLETS cont.....

- 3. Is it vented and terminated inside chimney?
- 4. Is the pellet vent adapted to a class "A" Chimney? (May have to run pellet vent to chimney top).
- I. Time circuit board.

XI. THE BLOWERS RUN INDEFINITELY AFTER STOVE IS SWITCHED "OFF".

- A. The blower thermodisk is stuck in closed position. (Purple, blue and black wires).

XII. NOISY AUGER MOTOR

- A. Check for faulty auger motor.
- B. Is rubber bumper on post?
- C. Is front portion of auger motor in contact with air inlet tube?
- D. Are the set screws tight in auger coupling.

XIII. NOISY BLOWERS

- A. If clanging or pulsing noise:
 1. Impeller set screw may be loose.

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2. Impeller is bent or touching fan housing.
 3. Impeller is dirty or has build-up of creosote.
- B. Blower is noisy:
1. Adjust mounting screw tension.
 2. Double up on gaskets.
 2. Oil blowers. Blower manufacturer suggests oiling annually with SAE 20 wt oil. Limit to 1 or 2 drops.

XIV. AFTER THE STARTUP PROCEDURE IS FOLLOWED FOR THE AUTOMATIC FIRESTARTER, THE STOVE WILL NOT START.

- A. Did pellets drop into burnpot but did not ignite? If yes perform the following:
1. Shut stove "OFF".
 2. Pull off burnpot and turn stove to "ON" position. (**DO NOT PUSH RESET BUTTON**).
 3. The element in the firestarter housing should glow red for about 10 minutes. If it does restart the stove, make sure fuel feed is on "D" setting.
 4. If the element does not glow red:
 - a. Unplug power supply.

XIV. AFTER START-UP PROCEDURE cont.....

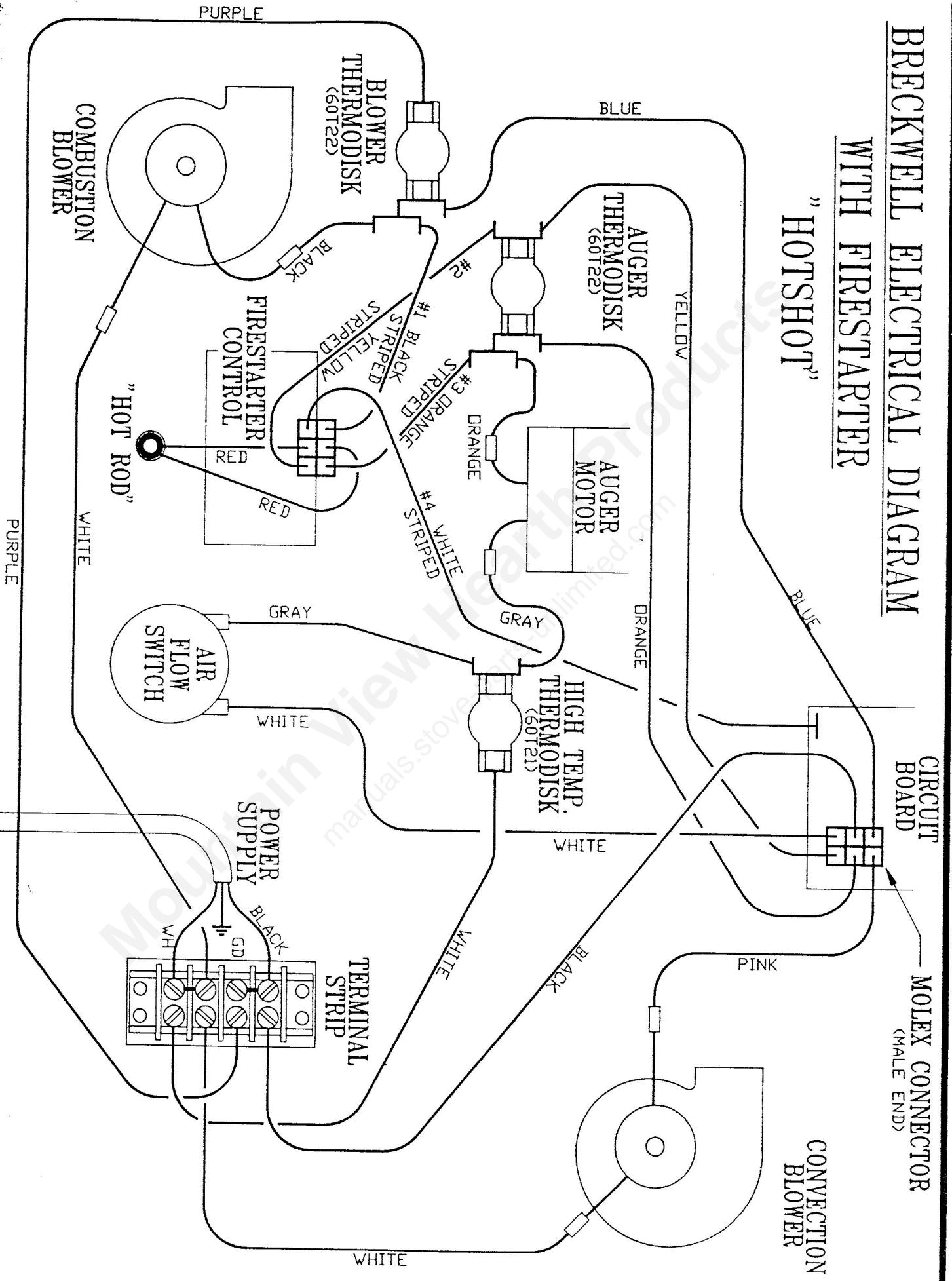
- b. Disconnect the "Hot Rod" element leads and check for continuity in hot rod.
 - c. If no continuity, replace hot rod element.
 - d. If there is continuity, check for continuity in rod wires from male end of molex to hot rod spade connectors.
 - e. Check where red wires insert into male end of molex connector to make sure they are all the way in.
- B. If pellets don't auger into burnpot and "Hot Rod" element does not come on.
1. Unplug stove.
 2. Pull off male end of molex connector on firestarter control board.
 3. Plug power supply in.
- NOTE: PLEASE USE CAUTION!**
4. Turn stove to "ON" position.
 5. Check voltage across black and white terminal on male end of connector. It should read 120 volts.
 6. If it reads 120 volts replace firestarter board.
 7. If there is no power and the blowers are running.
 - a. Check all connections.
 - b. Check continuity in white wire from circuit board to firestarter board.

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BRECKWELL ELECTRICAL DIAGRAM

WITH FIRESTARTER

"HOTSHOT"



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DEALERS PRE-DELIVERY INSPECTION INSTRUCTIONS

G29V & G29I

We recommend that gas stoves be preburned and inspected before they are delivered and installed. Uncrate unit and inspect for any damage or scuffing of paint that may have occurred during shipping. Inspect wire connections and tubing placement. Remove logs from inside fire box. Remove burning embers.

Put about 5' of 4" B vent on stove. Hook stove up to appropriate gas supply. Test for leaks. An electric leak detector is recommended. If no leaks are apparent close door and turn gas selector on Robertshaw gas valve to pilot. Push knob in and push Piezo ignitor button a couple of times or until pilot lights. Hold selector knob in for approximately 30 seconds or until selector knob can be released and pilot stays lit.

Using a multimeter that has a DC millivolt scale set to MV. Place test lead ends to the TP and the THTP terminals on the control head of the Robertshaw gas valve. Millivolt reading should read between 400 and 500 millivolts.

Flip the off/on rocker switch to the on position. Burner should light. Millivolt reading will drop to about 200 MV.

Our gas burners are pre burned before they are installed in the stove and should not require any adjustments. Check flame height on low and high. If it looks good there should not be any problems.

If you experience a flame that is too high or too low you must connect a monometer to the Robertshaw valve to check gas pressure (refer to gas technical guide) in dealer handbook.

Please be aware that stoves are shipped with standard main burner orifice and pilot orifice. If stoves are installed at altitude orifice size must be compensated for. that includes main burner and pilot orifices. See owners manual for sizing.

If these steps are taken there will be far less service calls and a lot more happy customers.

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