

SYMPTOM	CAUSE	CORRECTION
<p>Power light not on</p>	<p>Power at outlet</p> <p>Fuse blown on circuit board</p> <p>Faulty wiring</p> <p>Faulty circuit board</p>	<p>Verify proper voltage and polarity at the outlet. Verify power cord is plugged into the outlet.</p> <p>Replace fuse / Check for short</p> <p>Inspect / Repair stove wiring</p> <p>Replace circuit board</p>
<p>One or both blowers do not run in test mode</p>	<p>Power at outlet</p> <p>Feed rate / Test mode knob out of alignment</p> <p>Blower fan blade obstructed</p> <p>Faulty blower motor</p> <p>Faulty wiring</p> <p>Faulty circuit board</p>	<p>Verify proper voltage and polarity at the outlet</p> <p>Verify when knob is turned fully clockwise the knob arrow points to "6"</p> <p>Remove / Clean obstruction from blower fan blade</p> <p>Verify that when corresponding light on the control is lit there is voltage to the blower motor. If voltage is present and the blower will not run, replace the blower motor.</p> <p>Inspect / Repair wiring</p> <p>Both combustion and distribution blowers should run on high for approx. 1 minute after turning the feed rate knob to test mode. After 1 minute the blowers will alternate between high and low every minute. When one blower is on high the other blower will be on low. The blower lights on the control board will burn bright when that blower is on high and dim when that blower is on low. Verify proper control operation.</p>
<p>Feed motor will not run in test mode.</p> <p>*Feed motor will only run for the first minute after turning the unit to test mode*</p>	<p>Low draft</p> <p>Faulty differential switch</p> <p>Faulty feed motor</p> <p>Faulty wiring</p> <p>Faulty circuit board</p>	<p>Install draft meter and verify draft settings. The draft differential switch must have at least -.17" W.C. to close and allow power to the feed motor.</p> <p>After verifying draft readings are correct, jump differential switch. Turn unit to test mode. If the feed motor runs check for obstruction in differential switch tube. If no obstruction and the draft readings are correct, replace the differential switch.</p> <p>Verify when the feed motor light on the control is on voltage is present at the feed motor. If voltage is present and the feed motor will not run, replace the feed motor.</p> <p>Inspect / Repair stove wiring</p> <p>Verify when the stove is turned to test mode the feed motor light is lit for 1 minute. Verify voltage to the motor when the feed motor light is lit..</p>
<p>Stove will not light in Auto. All motors run in test mode.</p> <p style="text-align: right;">continued</p>	<p>Fuel problem</p> <p>Draft problem</p> <p>Dirty stove and venting</p> <p>Back draft damper sticking</p> <p>Temp dial setting</p> <p>Low voltage</p>	<p>Verify there are pellets in the burn pot. Turn the stove to test to purge pellets into the burn pot if necessary. Check that pellets are dry and in good condition.</p> <p>Connect draft meter and verify draft readings.</p> <p>Clean stove and venting. Check for clogged holes in the burn pot. Clean area under the burn pot where the igniter is located. Clean igniter.</p> <p>Verify that back draft damper located in the air inlet moves freely.</p> <p>Set temp dial above room temperature. The stove will not light unless the temp dial is at least 2 degrees above the room sensing probe temperature.</p> <p>Verify voltage and polarity at the outlet. Low voltage will cause the igniter temperature to be low.</p>

SYMPTOM	CAUSE	CORRECTION
<p>Stove will not light in Auto. All motors run in test mode. continued</p>	<p>Faulty room sensing probe</p> <p>Faulty ESP probe</p> <p>Faulty igniter</p> <p>Faulty draft differential switch</p> <p>Obstruction in feeding system</p> <p>Faulty wiring</p> <p>Faulty circuit board</p>	<p>Verify room sensing probe is installed correctly. Check for a four blink status. The stove will not light in auto and room temp with a four blink status error. Check for loose room sensing probe connections. Install or replace room sensing probe.</p> <p>Replace ESP probe</p> <p>Check if igniter is getting hot when igniter light on the control is lit. The igniter is wired through the draft differential switch. Check if voltage is present to the igniter when the igniter light on the control is lit. Check the resistance of the igniter. Resistance should be 50 - 54 ohms. Replace igniter if needed.</p> <p>The draft differential switch will not close allowing voltage to the igniter if the draft is less than -.17"W.C. If the draft readings are correct and jumping the differential switch allows the stove to light, check for obstruction in the differential switch tube. Replace differential switch if needed.</p> <p>Check for obstruction in hopper, feeder and auger tube.</p> <p>Inspect / Repair wiring from the control to the igniter.</p> <p>If everything above checks out correctly and no voltage to the igniter, replace the circuit board.</p>
<p>Erratic operation.</p>	<p>Power at the outlet</p> <p>Faulty ESP probe</p> <p>Faulty wiring</p> <p>Faulty room sensing probe</p> <p>Faulty circuit board</p>	<p>Verify proper voltage and polarity at the outlet</p> <p>Replace ESP probe</p> <p>Inspect / Repair stove wiring</p> <p>Check connections and location of room sensing probe. Replace room sensing probe if needed.</p> <p>Verify proper control operation. Replace circuit board if not controlling properly.</p>
<p>Stove burns properly. Distribution blower will not run. *NOTE: Distribution blower will not come on until ESP probe senses approx. 155 degrees.*</p>	<p>Power at the outlet</p> <p>Stove in manual and stove temp mode</p> <p>Dirty stove and venting</p> <p>Faulty distribution blower</p> <p>Faulty ESP probe</p> <p>Faulty wiring</p> <p>Faulty circuit board</p>	<p>Verify proper voltage and polarity at the outlet.</p> <p>With the control set to manual and stove temp mode and the temp dial set to 5 or less, the distribution blower will not operate. This allows you to view a fire without blowing heat into the room.</p> <p>Clean the stove and venting</p> <p>Verify distribution blower spins freely. If voltage is present at the distribution blower and the blower will not run, replace blower motor.</p> <p>Verify probe is clean. Replace probe if needed.</p> <p>Inspect / Repair stove wiring.</p> <p>Verify when the distribution blower light on the control board is lit, voltage is present to the distribution blower.</p>
<p>Stove burns properly. Stove will not shut down when turned to off. *NOTE: The stove will continue to feed until the ESP probe senses approx. 250 degrees. The combustion blower will run until the ESP probe senses 90 degrees.*</p>	<p>Power at the outlet</p> <p>Mode selector knob out of alignment</p> <p>Stove in two blink status</p> <p>Faulty ESP probe</p> <p>Faulty wiring</p> <p>Faulty circuit board</p>	<p>Verify voltage and polarity at the outlet.</p> <p>Turn the mode selector knob fully clockwise. Verify the pointer is at the "H" on room temp. Re-set knob if needed. Verify the status light goes out when the knob is turned to off.</p> <p>Stoves with a feeder position micro switch, check for proper operation of the micro-switch. Stoves without a feeder position micro-switch check for missing or loose jumper at J2 on the control board. The stove will not shut down while in a two blink status error.</p> <p>If the stove is cold and continues to run clean / replace ESP probe</p> <p>Inspect / Repair stove wiring</p> <p>Replace circuit board</p>

SYMPTOM	CAUSE	CORRECTION
Feed motor does not run after ignition. (Feed motor runs in test mode)	<p>Power problem</p> <p>Draft problem</p> <p>Obstruction in feed system</p> <p>Faulty Esp probe.</p> <p>Faulty circuit board</p>	<p>Verify proper voltage and polarity at the outlet.</p> <p>Install draft meter and verify draft readings. At least -.17" W.C. needed to close the differential switch and allow power to the feed motor.</p> <p>Check for obstruction in feeder and auger tube.</p> <p>Clean / Replace ESP probe</p> <p>Replace circuit board</p>
Stove does not burn correctly	<p>Dirty stove / venting</p> <p>Fuel problem</p> <p>Feed rate setting</p> <p>Back draft damper sticking</p> <p>Obstruction in feed system</p> <p>Faulty ESP probe</p> <p>Faulty circuit board</p>	<p>Clean stove and venting. Install draft meter and verify draft readings.</p> <p>Verify pellets are dry and are in good condition.</p> <p>Verify feed rate setting. A setting of 3 to 4 works best for most pellets.</p> <p>Verify the back draft damper located in the air inlet is moving freely. If outside air is installed verify pipe is not obstructed.</p> <p>Check for obstruction in the hopper, feeder and auger tube</p> <p>Clean / Replace ESP probe</p> <p>Verify proper control operation. Replace circuit board if needed.</p>
Stove noisy when feed motor is running	<p>Slide plate</p> <p>Faulty feed motor</p> <p>Cam bearing</p> <p>Pillow block bearings</p> <p>Auger</p>	<p>Check for obstruction in slide plate area. Check for burrs on slide plate and in the feeder housing. Check for evidence of wear on slide plate. Verify the slide plate is not warped or damaged.</p> <p>Remove feed motor and connect directly to 120 volts to check for noisy gears.</p> <p>Verify cam bearing is traveling on pusher arm properly. Adjust or replace the cam bearing.</p> <p>Verify the pillow block bearings are seated in the housing. Check for fines or dirt in the bearings. Adjust or replace pillow block bearings.</p> <p>Check for obstruction in the auger. Verify auger is not rubbing inside the feeder tube. Verify auger bearing retaining bolts are tight and the auger is not at angle in the auger tube. If the auger bearing is causing the noise, replace the auger.</p>
Draft readings are not normal	<p>Dirty stove / Venting</p> <p>Air inlet damper sticking</p> <p>Venting configuration</p> <p>Faulty combustion blower</p> <p>Faulty circuit board</p>	<p>Clean stove and venting. Re-check draft readings.</p> <p>Verify air inlet damper is moving freely. If outside air is installed check for obstruction in pipe.</p> <p>Verify proper venting configuration. Change venting if needed.</p> <p>Check that fan blade is tight on combustion blower motor shaft. Check operation of combustion blower. Replace combustion blower if needed.</p> <p>Check for proper control operation. Replace circuit board if needed.</p>