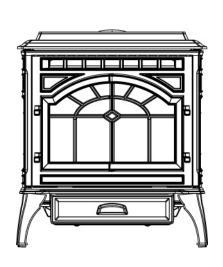
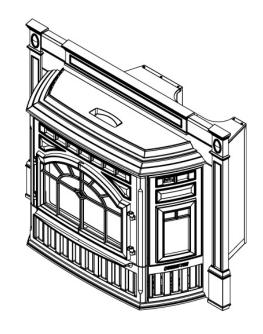


NOTHING BURNS LIKE A QUAD

MT VERNON-AE

TROUBLE SHOOTING MANUAL







(THIS MANUAL IS INTENDED FOR TRAINED & QUALIFIED DEALER USE ONLY)

1445 N. Highway Colville, Wa 99114

#7020-057D January 18, 2010

www.quadrafire.com www.quaddealer.com

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OPERATION CHART 1: SELECT AUTO OR AUTO/MANUAL SETTINGS AUTO/MANUAL SETTINGS Automatic MANUAL OPERATION MODE. Automatic Manual MAKE SURE YOU PUSH THE Manual "DONE" BUTTON AFTER YOU Off Off SELECT THE MODE. DONE SELECT DONE SELECT 2: AFTER YOU SET THE STARTUP 12:30 PM ROOM TEMPERATURE, THE Set at: 73 ٥F WALL CONTROL WILL STATE "STARTUP" IN THE TOP LEFT CORNER. ("set at" temp must be 2 degrees above room temp) HEAT OUTPUT **MENU 3:** IGNITER TURNS ON FOR 90 SECONDS BEFORE FEED CHARGE STARTS. 4: EXHAUST BLOWER SPEEDS UP AND STARTS TO CREATE A VACUUM IN THE FIREBOX. Estimated vacuum is between .04 to .05 inches of water during preheat. 5: VACUUM SWITCH CLOSES AND ALLOWS THE FEED MOTOR TO TURN ON. **6:** FEED MOTOR TURNS ON AND START UP FUEL CHARGE FEEDS INTO THE FIREPOT. 7: A FIRE STARTS IN THE FIREPOT.

OPERATION CHART 8: THE FIREPOT THERMO-SS-Low 12:30 PM COUPLE STARTS READING Set at: 73 THE TEMPERATURE RISE ٥F AND THE UNIT WILL GO INTO "SOFT-START LOW". HEAT OUTPUT MENU SOFT-START LOW TIMES: (REV 3) (REV 4) 9: SOFT-START LOW IS A SOFTWOOD......4 MINUTES......4 MINUTES TIMED MODE AND WILL VARY HARDWOOD......4 MINUTES......4 MINUTES IN LENGTH DEPENDING ON UTILITY......4 MINUTES......4 MINUTES THE FUEL TABLE SELECTED. CORN......12 MINUTES......10 MINUTES WHEAT......9 MINUTES......9 MINUTES SUNFLOWER SEEDS......4 MINUTES......4 MINUTES 10: THE IGNITER WILL SHUT OFF AFTER SS LOW EXPIRES FOR FUEL TABLE REV 2 & 3. REV 4 WILL SHUT OFF AFTER START-UP EXPIRES. (PELLET ONLY) 12:30 PM SS-Med Set at: 73 ٥F 11: SOFT-START MEDIUM WILL DISPLAY AFTER SOFT **MENU** HEAT OUTPUT START LOW HAS EXPIRED. THE LENGTH OF THIS MODE SOFT-START MEDIUM TIMES: (REV 3) (REV 4) WILL VARY DEPENDING ON SOFTWOOD......5 MINUTES......5 MINUTES THE FUEL SELECTED. HARDWOOD......5 MINUTES......5 MINUTES UTILITY......5 MINUTES......5 MINUTES CORN......12 MINUTES......10 MINUTES WHEAT......8 MINUTES......8 MINUTES SUNFLOWER SEEDS......5 MINUTES......5 MINUTES **12:** THE DROP TUBE THERMOCOUPLE WILL **BEGIN READING TEMPERA-**TURE. 105 DEGREES WILL BE NEEDED TO TURN THE CONVECTION BLOWER ON. **NORMAL SETTING: 13:** AS THE TEMPERATURE 135 DEGREES TO REACH MAX SPEED.

QUIET SETTING:

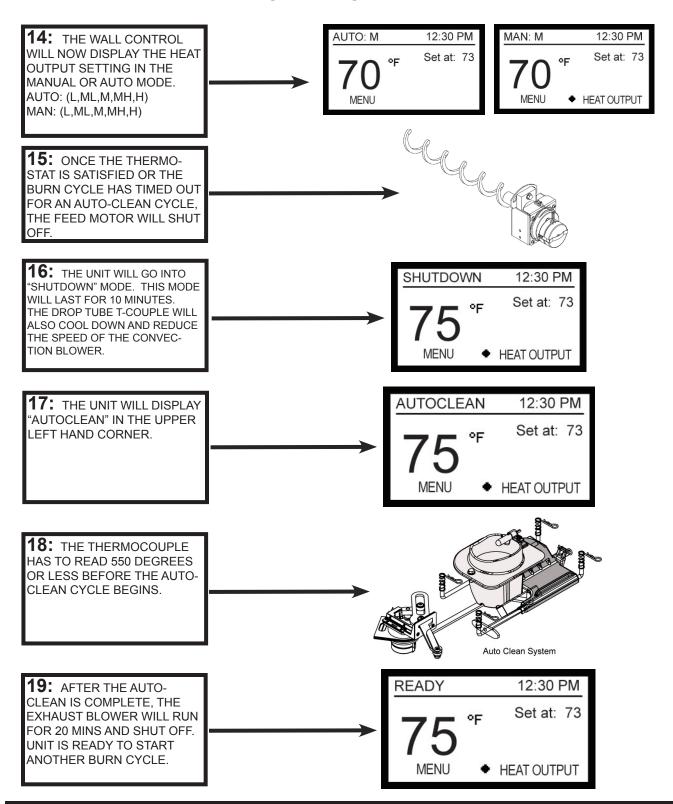
165 DEGREES TO REACH MAX SPEED

RISES, THE CONVECTION

SPEED.

BLOWER WILL INCREASE IN

OPERATION CHART

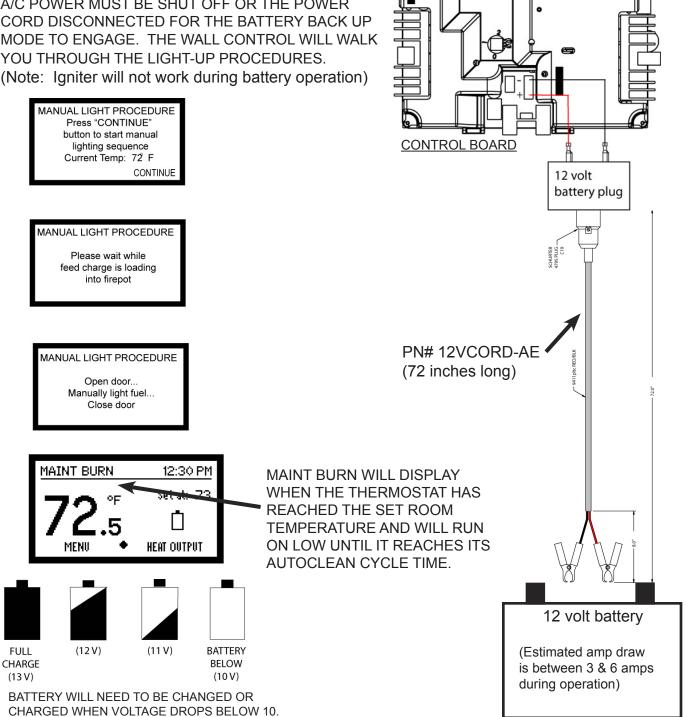


BATTERY BACK-UP SYSTEM

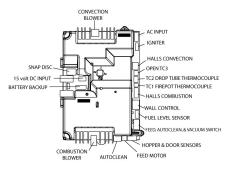
12 VOLT DEEP CYCLE BATTERY AND THE BATTERY CORD (#12VCORD-AE) IS NEEDED TO POWER THE SYSTEM.

A/C POWER MUST BE SHUT OFF OR THE POWER CORD DISCONNECTED FOR THE BATTERY BACK UP MODE TO ENGAGE. THE WALL CONTROL WILL WALK YOU THROUGH THE LIGHT-UP PROCEDURES.

(Note: Igniter will not work during battery operation)



CONTROL BOARD SRV7000-456 Rev C



CONTROL BOARD SPECS 7.6 CODE: (Rev 3 fuel tables)

FUEL	<u>UFTI</u>	SS LOW	SS MED	MAX IGNITER TIME	A/C CYCLE TIME	SHUTDOWN TIME
CORN:	0	12 MIN	12 MIN	START+15 MIN	2.9 HRS*	6 MIN
UTILITY PELLET:	1	4 MIN	5 MIN	START+2 MIN	1.2 HRS*	10 MIN
SOFTWOOD:	2	4 MIN	5 MIN	START+2 MIN	2.7 HRS*	10 MIN
SUNFLOWER SEEDS	S: 3	4 MIN	5 MIN	START+4 MIN	2.4 HRS*	10 MIN
WHEAT:	4	9 MIN	8 MIN	START+13 MIN	2.6 HRS*	10 MIN
HARDWOOD PELLET	Г: 5	4 MIN	5 MIN	START+2 MIN	2.2 HRS*	10 MIN

*NOTE: AUTOCLEAN CYCLES TIMES ARE ESTIMATED WHEN THE UNIT IS RUN AT THE "HIGH" OUTPUT SETTING.

CONTROL BOARD SPECS 8.0 CODE: (Rev 4 fuel tables)

FUEL	UFTI	SS LOW	SS MED	MAX IGNITER TIME	A/C CYCLE TIME	SHUTDOWN TIME
CORN:	0	10 MIN	10 MIN	START+10 MIN	2.9 HRS*	6 MIN
UTILITY PELLET:	1	4 MIN	5 MIN	START-UP ONLY	1.2 HRS*	10 MIN
SOFTWOOD:	2	4 MIN	5 MIN	START-UP ONLY	2.7 HRS*	10 MIN
SUNFLOWER SEEDS	S: 3	4 MIN	5 MIN	START+4 MIN	2.4 HRS*	10 MIN
WHEAT:	4	9 MIN	8 MIN	START+10 MIN	2.6 HRS*	10 MIN
HARDWOOD PELLE	T: 5	4 MIN	5 MIN	START-UP ONLY	2.2 HRS*	10 MIN

^{*}NOTE: AUTOCLEAN CYCLES TIMES ARE ESTIMATED WHEN THE UNIT IS RUN AT THE "HIGH" OUTPUT SETTING.

UPDATES:

SRV7000-323

ECO 56401 --- CHANGED FROM **6.9 TO 6.10A CODE**. INSTALLED POWER STROKE CODE FOR AUTOCLEAN AND CHANGED TO THE "QUIET" CONVECTION BLOWER CURVE. REV 2 FUEL TABLES ALSO INSTALLED. (1-11-07) **SRV7000-330**

ECO 56476 -- RELEASED WITH THE **7.2 CODE**. HIGH ELEVATION FUEL TABLES INSTALLED. 2 CONVECTION BLOWER SPEED OPTIONS INSTALLED, 135 & 165 DEGREES TO GET TO THE HIGH BLOWER SPEED & EXHAUST BLOWER STAYS ON DURING THE AUTO-CLEAN CYCLE AND 20 MINUTES AFTER AUTO-CLEAN IS COMPLETED. (8-2-07 // SN 0072232364 INSERT /// SN 0072279399 FS)

SRV7000-456

ECO 58315 -- RELEASED WITH THE **7.3 CODE**. MADE SOME UPDATES TO THE EURO FUEL TABLES. (They can be accessed by turning the rotary switch to position 1)

REV B --- RELEASED WITH THE 7.4 CODE. ADDRESSED PREVIOUS AUTO-CLEAN PROBLEMS. SN 00700200343

REV C --- RELEASED WITH THE 7.5 CODE. ADDRESSED LOGIC PROBLEM WITH VAC SWITCH & AUGER JAM.

REV C --- RELEASED WITH 7.6 CODE. INSTALLED REV 3 FUEL TABLES. 4-6-09 ECO 60611.

REV (pending) --- RELEASED WITH 8.0 CODE. INSTALLED REV 4 FUEL TABLES. (still testing)



ERROR CODES



AUGER JAMMED: SEE PAGE 13 (FEED MOTOR TROUBLE-SHOOTING)

BAD TC DROP TUBE: SEE PAGE 10 (CONVECTION BLOWER TROUBLE-SHOOTING)

BAD TC FIRE POT: SEE PAGE 16 (FIREPOT, AUTOCLEAN & T-Couple TROUBLE-SHOOTING)

CHECK ASH PAN: SEE PAGE 14 (FIREPOT, AUTOCLEAN & T-Couple TROUBLE-SHOOTING)

COMB BLOWER JAMMED: SEE PAGE 11 (EXHAUST BLOWER TROUBLE-SHOOTING)

CONV BLOWER JAMMED: SEE PAGE 10 (CONVECTION BLOWER TROUBLE-SHOOTING)

MIN FP TEMP: UNIT IS OUT OF FUEL OR CHECK FOR PROPER FUEL SETTINGS. THIS CODE WOULD DISPLAY ANYTIME THE FIRE GOT UNDER 500 DEGREES DURING ITS NORMAL RUN MODE.

<u>MISSED IGNITION:</u> UNIT IS OUT OF FUEL OR CHECK FOR PROPER FUEL SETTINGS. SEE PAGE 19 (IGNITER TROUBLE-SHOOTING) THIS CODE WOULD DISPLAY IF THE FUEL DID NOT LIGHT OR THE FIRE DID NOT GET HOT ENOUGH DURING START-UP AFTER 3 TRIES.

VACUUM SW ERROR: SEE PAGE 12 (FIREBOX VACUUM TESTING)



OPERATIONAL SYMPTOMS



UNIT HAS NO POWER OR LOSES POWER AFTER 15 TO 20 MINUTES: SEE PAGE 20 (POWER SUPPLY TROUBLE-SHOOTING)

UNIT IS MAKING A RUMBLING NOISE DURING START-UP: CHECK THE FUEL SETTINGS AND MAKE SURE THE UNIT IS CLEAN. *SEE PAGE 12* (FIREBOX VACUUM TESTING)

UNIT IS BUILDING UP BLACK SOOT ON THE GLASS: CHECK THE FUEL SETTINGS AND MAKE SURE THE UNIT IS CLEAN. *SEE PAGE 12* (FIREBOX VACUUM TESTING)

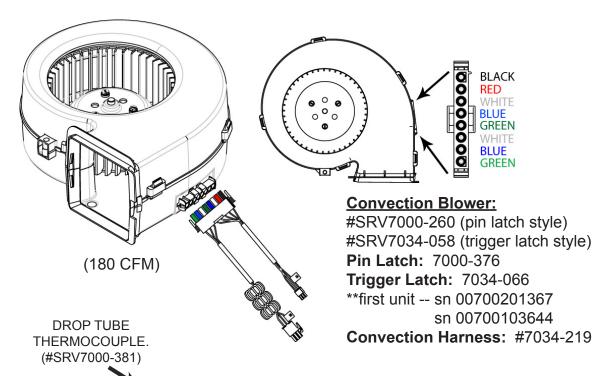
IGNITER IS NOT GETTING HOT: SEE PAGE 19 (IGNITER TROUBLE-SHOOTING). ENSURE THE IGNITER CHAMBER UPDATE HAS BEEN DONE. REFERENCE THE SEPT. 18, 2007 FIELD COMMUNICATION.

UNIT LIGHTS AND GOES OUT DURING START-UP: SEE PAGE 16 (FIREPOT THERMOCOUPLE TROUBLE-SHOOTING)

UNIT WILL NOT LIGHT & BURN CORN CONSISTENTLY: CHECK FUEL SETTINGS. CORN MUST BE SCREENED. *SEE PAGE 14* (FIREPOT & AUTOCLEAN TROUBLE-SHOOTING)

WALL CONTROL SCREEN IS SHUTTING OFF: SEE PAGE 22 (WALL CONTROL TESTING)

CONVECTION BLOWER TROUBLE-SHOOTING



Items to check:

Check blower for obstructions:

*Clean fan blades & check fan bearing.

Check blower wire harness:

*Color of wires, Connector pins, test for broken wires

Check over heat snap disc (#230-1290)

*This is located on the pellet drop chute. Is it tripped?

Check drop tube thermocouple:

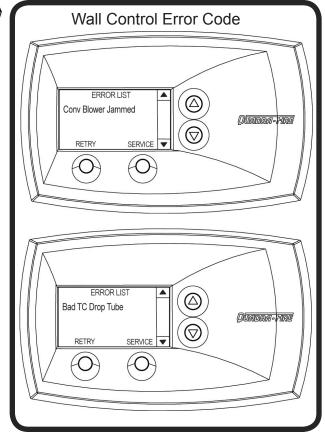
*This has to produce millivolts to turn the blower on.

Replace convection blower:

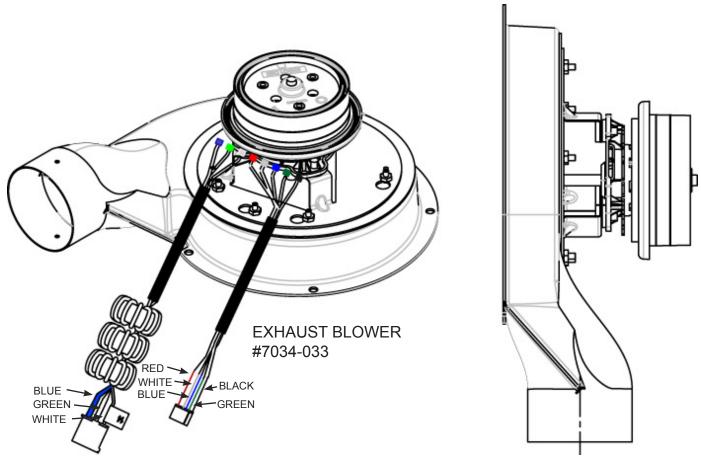
*If all previous checks are good, replace the blower.

Replace the control board (SRV7000-456):

*If replacing the blower did not fix, replace the board.



EXHAUST BLOWER TROUBLE-SHOOTING



Items to check:

Check blower for obstructions:

*Clean fan blades & check fan bearing.

Check blower connections

*Color of wires, Connector pins, test for broken wires

Check over heat snap disc (#230-1290)

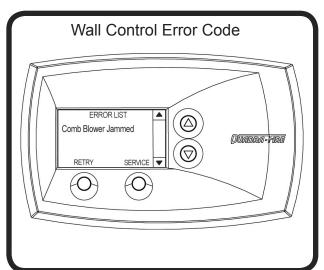
*This is located on the pellet drop chute. Is it tripped?

Replace exhaust blower:

*If all previous checks are good, replace the blower.

Replace the control board (SRV7000-456):

*If replacing the blower did not work, replace the board.



FIREBOX VACUUM TESTING

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

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

STEP 3) START THE STOVE AND SET TO MANUAL "HIGH".

***note: make sure fuel is in the hopper as this can
effect the vacuum reading. It takes .04 inches of water to close
the vacuum switch.****

ALL VACUUM READINGS ARE MEASURED IN INCHES OF WATER COLUMN. LONG VERTICAL VENT RUNS WILL PRODUCE **MORE 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 Stats:

UTILITY SETTING: (vertical vent)

Start-up during pre-heat --- .04

Start-up while dropping pellets --- .19

Soft Start LOW ---- .19

Soft Start MEDIUM ---- .15

HIGH ---- .14

SHUTDOWN --- .12

Vacuum Stats:

HARDWOOD: (vertical vent)

Start-up during pre-heat --- .04

Start-up while dropping pellets --- .15

Soft Start LOW ---- .17

Soft Start MEDIUM ---- .15

HIGH ---- .15

SHUTDOWN --- .10

Vacuum Stats:

SOFTWOOD: (vertical vent)

Start-up during pre-heat --- .05

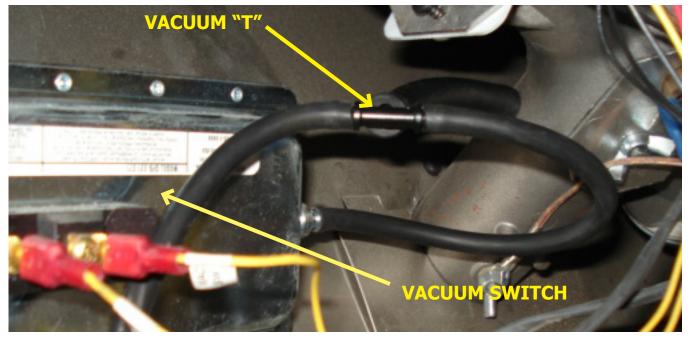
Start-up while dropping pellets --- .16

Soft Start LOW ---- .14

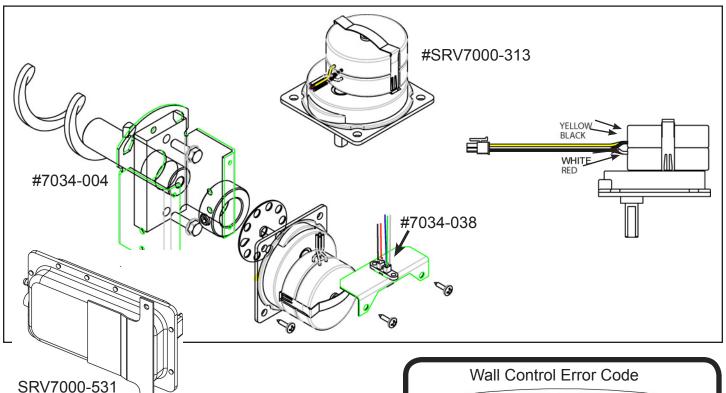
Soft Start MEDIUM ---- .12

HIGH ---- .11

SHUTDOWN --- .09



FEED MOTOR TROUBLE-SHOOTING



Items to check:

Check feed tube for obstructions:

*Remove the pellets from the hopper & then remove the feed assy (#7034-004).

Check the auger spring set screw:

*The set screw must be tight on the feed motor shaft.

Check the Door & Hopper sensors (#7000-375):

*Make sure the door & hopper lid is closed and the icons on the wall control are not displayed.

Check over heat snap disc (#230-1290):

*This is located on the pellet drop chute. Is it tripped?

Check the vacuum switch (#SRV7000-531):

*Check for an error code or test the vacuum switch.

Replace the optical sensor (#7034-038):

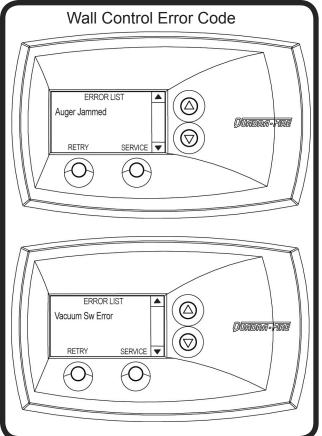
*Replace this part if all previous checks are good.

Replace the feed motor (#SRV7000-313):

*Replace this part if all previous checks are good.

Check the 10-pin harness for a loose pin or broken wire:

*Replace the harness if broken. (SRV7034-191)



FIREPOT, AUTOCLEAN, & THERMOCOUPLE TROUBLE-SHOOTING #7000-334 SRV7034-072 (F/P top) #7000-513/4 (F/P springs) #7034-153 (F/P bottom) #7000-327 **UPDATES:** Started drilling the 2 holes in the igniter chamber 7-9-07. **New firepot released #7034-020 Auto Clean System DEC 2009.

Items to check:

Check the door sensor (#7000-375):

*Make sure the door is closed and the icon on the wall control is not displayed.

Check over heat snap disc (#230-1290):

*This is located on the pellet drop chute. Is it tripped?

Check the ash pan & firepot for obstructions:

*Check for clinker blockage.

Check the version of control board (SRV7000-456):

*Replace this part if it is not at least a Rev C or higher.

Check firepot thermocouple (#SRV7034-247):

*Check for millivolt output or replace (see page 16)

Check the auto-clean microswitch (#7000-327): (SEE PAGE 15)

- *Check the switch for an "open" & "closed" reading.
- *Check for a loose connection on the switch wires.

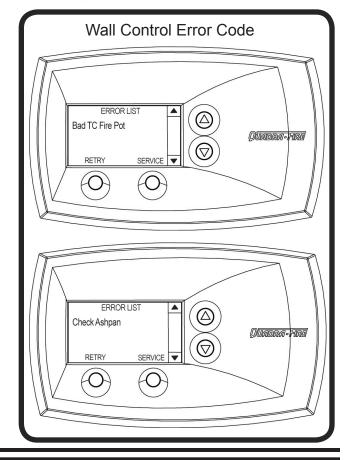
Check for a broken wire on the 10 pin connector:

*Replace harness if broken. (SRV7034-191)

Check the auto-clean motor. (#7034-020):

*If all previous checks are good, replace the motor.

NOTE: The auto-clean system will cycle each time when the unit is unplugged and plugged back in.

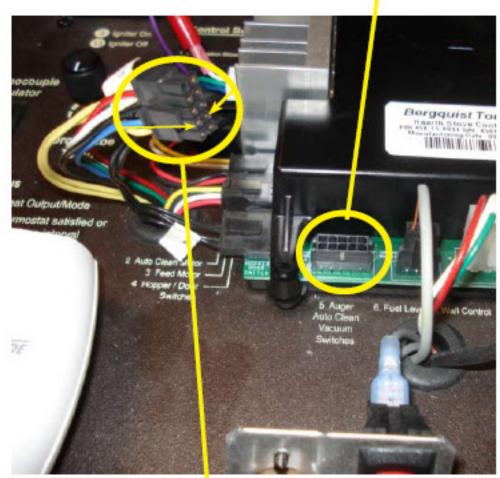


FIREPOT, AUTOCLEAN, & THERMOCOUPLE TROUBLE-SHOOTING



PICTURE OF THE MICRO SWITCH ON THE AUTO-CLEAN MOTOR.

 DISCONNECT THIS CONNECTOR ON THE BOARD.



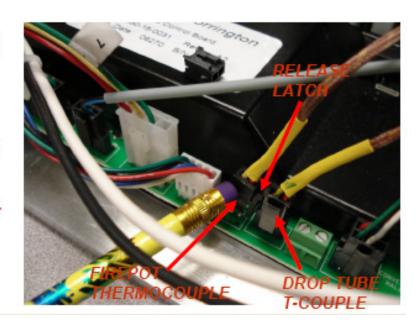
 DO A CONTINUITY TEST ON THESE 2 PINS TO CHECK THE MICRO SWITCH.
 (WIRES GOING INTO THE BACK OF THE PINS WILL BE BLACK) UNPLUG THE STOVE AND PLUG BACK IN TO START AUTOCLEAN MOTOR.

FIREPOT THERMOCOUPLE TROUBLE-SHOOTING

REMOVE THE THERMOCOUPLE FROM THE BOARD.

IT IS EASIER IF YOU REMOVE THE DROP TUBE T-COUPLE FIRST.

THIS WOULD
ALLOW ACCESS TO
THE RELEASE
LATCH FOR THE
FIREPOT T-COUPLE.



TEST FOR MILLIVOLTS OR TEST FOR AN OPEN CIRCUIT.

HEATING THE THERMOCOUPLE WILL PRODUCE MILLIVOLTS.

IF THE T-COUPLE PRODUCES MILLIVOLTS, IT IS GOOD.

IF THE T-COUPLE HAS CONTINUITY, IT IS GOOD.

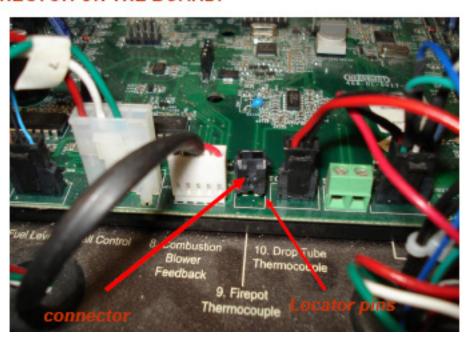


FIREPOT THERMOCOUPLE TROUBLE-SHOOTING

CHECK THE CONNECTOR ON THE BOARD.

This is an example of the connector not properly seated to the board.

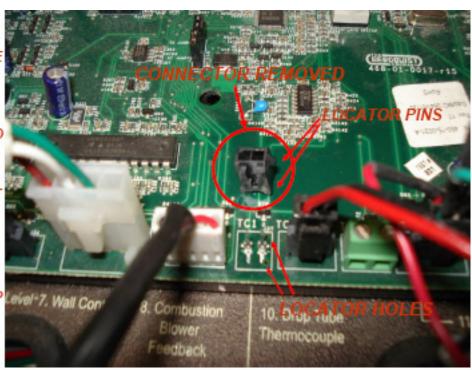
This connector is a friction fit with 2 locator pins.



VIEW OF THE CONNECTOR REMOVED FROM THE BOARD.

MAKE SURE THE CONNECTOR IS SECURLY INSTALLED AFTER CHECKING THE CONNECTIONS.

ALSO, MAKE SURE IT
IS ON CORRECTLY
OR THE T-COUPLE
WILL BE OUT OF
POLARITY. (LATCH
SIDE MUST BE
TOWARDS THE DROP
TUBE T-COUPLE
CONNECTOR.



FIREPOT THERMOCOUPLE TROUBLE-SHOOTING

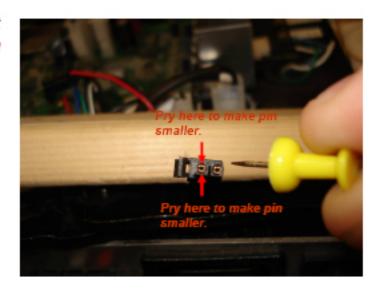
CHECK THE FEMALE PINS ON THE FIREPOT T-COUPLE

Make sure the pins are not bent out to where they can not make a good connection to the board.

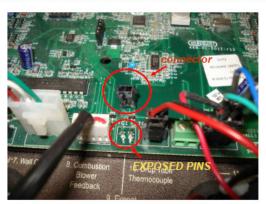
The female pins can be adjusted using a thumb tack to bend the pins inward.

The idea is to make them smaller.

IF ADJUSTING THE PINS WAS NOT SUCCESSFUL, TRY A NEW T-COUPLE.



PULL THE FIREPOT T-COUPLE CONNECTOR OFF OF THE BOARD.



INSTALL A JUMPER WIRE ON THE EXPOSED PINS.

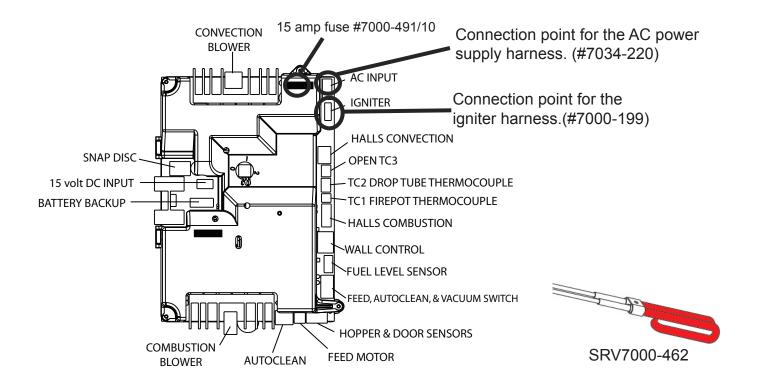
After installing the jumper wire, plug the stove in and check the wall control.

If the error code for the firepot t-couple goes away, the control board is good.

If the code pops up again, the board is bad.



IGNITER TROUBLE-SHOOTING



Items to check:

Check the igniter(SRV7000-462):

*Check for continuity in the igniter (should get around 36 ohms) or apply direct power to it. (This is an AC component)

Check the AC power supply harness (#7034-220):

*Check for power or a broken connection.

Check for power at the igniter harness (SRV7034-199):

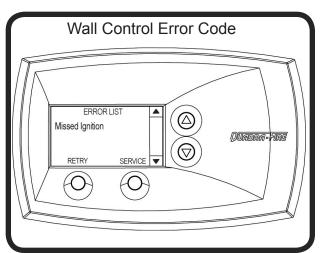
- *Make sure all connections are good.
- *Check for continuity in the wire harness.

Check for power at the control board (SRV7000-456):

- *Unplug the unit and restart. Make sure the wall control says "Startup".
- *If power is not present, check the fuse or replace the control board.

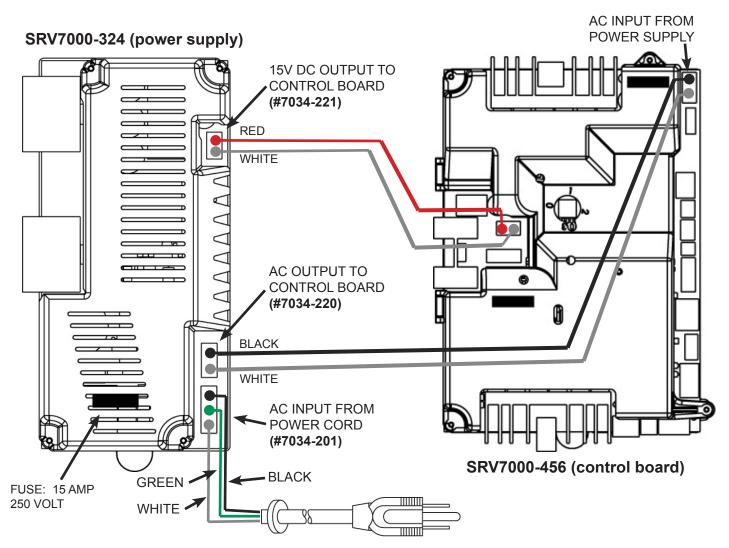
UPDATE:

*Igniter chamber update communication was sent out on Sept. 18, 2007. This update will increase the service life of the igniter.



7020-057D

POWER SUPPLY TROUBLE-SHOOTING



Items to check:

Check the AC power supply harness (#7034-201):

*Check for power or a broken connection.

Check the DC power supply harness (#7034-221):

- *Check for a broken connection or for DC volts. (14 to 15 volts)
- *Check polarity. Make sure the wires are not backwards on the harness.
- *Replace the 15 amp fuse or power supply if there are not any volts.

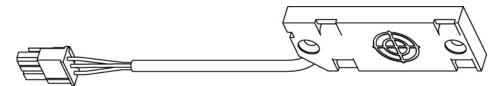
If unit is making a "chirping" noise & wall control is blank:

- *Check the harness for a "short" in one of the wires.
- *Unplug wires from the control board until the noise goes away. Start with the door/hopper sensor harness first.

DOOR/HOPPER/FUEL LEVEL SENSOR TROUBLE-SHOOTING



DOOR / HOPPER SENSOR (#7000-375)



FUEL LEVEL SENSOR (#7000-380)

Items to check:

IF YOU GET THE "DOOR OPEN" ICON:

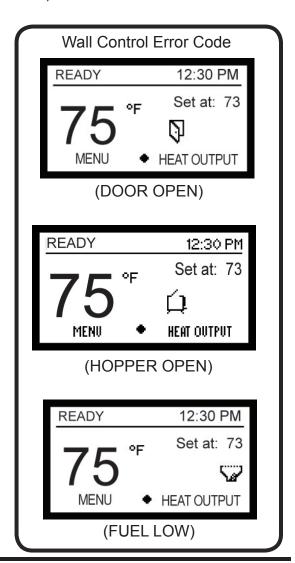
- *Check the front door. Make sure the latch is closed.
- *Check the sensor mount & magnet.
- *Check the connection to the control board.
- *Replace the sensor if previous checks are good.

IF YOU GET THE "HOPPER OPEN" ICON:

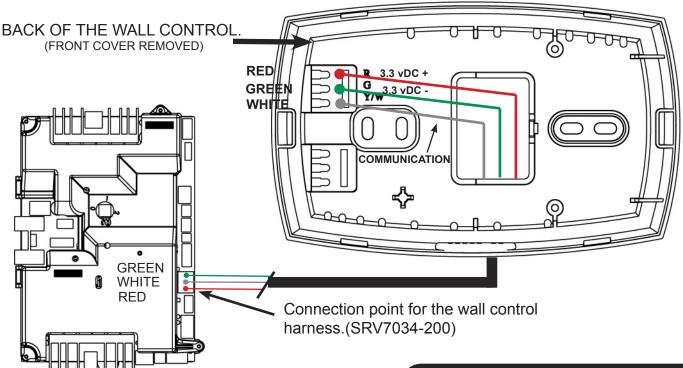
- *Check the hopper door. Make sure it is closed.
- *Check the sensor mount & magnet.
- *Check the connection to the control board.
- *Replace the sensor if previous checks are good.

IF YOU GET THE "FUEL LOW" ICON:

- *Check the fuel level in the hopper. Add fuel if low.
- *Check the sensor mount. Reposition sensor if needed.
- *Touch the sensor with your finger, if the yellow light doesn't come on, replace the sensor.



WALL CONTROL TESTING



Items to check:

Check main power for the unit:

- *Check for power or a broken connection.
- *Check the power supply for 15 volts.

Check power going to the wall control (SRV7000-451):

- *Make sure thermostat wires are connected properly and match their appropriate color connection point.
- *Check for a broken wire or a staple in the t-stat wires.
- *The voltage on the green & red wire should be 3.3vDC
- *If voltage is present, replace the wall control.

Check the white wire if you get a "no communication" screen.

- *Check for a broken wire or bad connection.
- *If the wire & connections are good, replace the control board. (SRV7000-456)

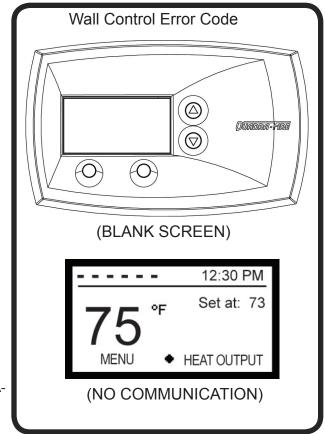
UPDATES:

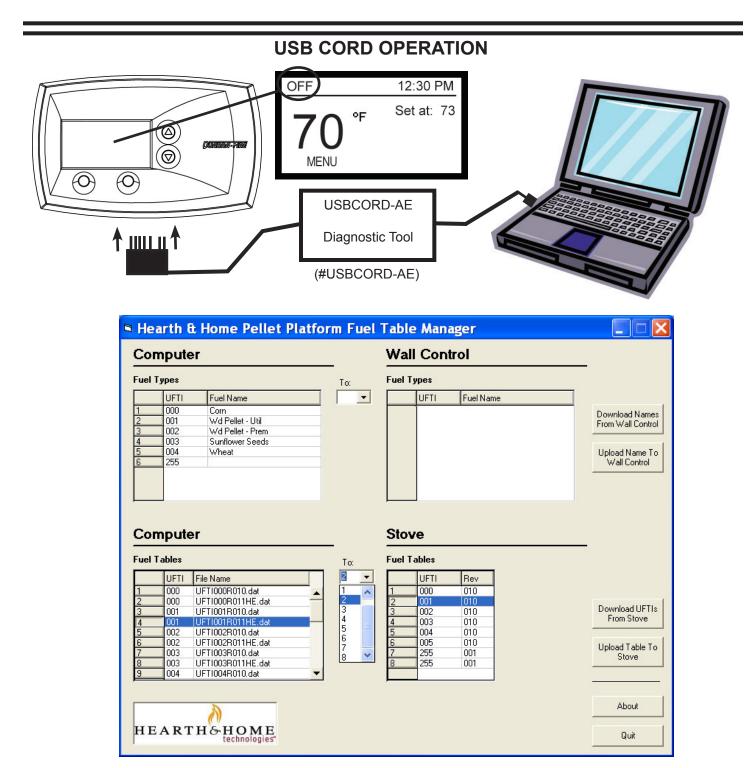
7000-308

ECO 56774-- ADDED ABILITY TO UPLOAD FUEL TABLES. (CODE 3.0) 3-21-07

7000-449

ECO 57823 -- RELEASED WITH 4.3 CODE. ADDED HIGH ELEVATION, CONV BLWR, PROPERTIES SCREENS. (7-11-07) 7000-451 -- RELEASED WITH 4.7 CODE. WILL WORK ON ALL CONTROL BOARDS. (8-8-07)





- 1) Make sure the wall control says "off" and all blowers are off.
- 2) Plug in USB cord to wall control and the computer.
- 3) Download the UFTI's from the stove.
- 4) Check for version of software and update as needed.
- 5) Visit www.quaddealer.com to access the latest fuel tables.

CAUTION

The appliance must be in complete shutdown, completely 1. Set the wall control thermostat to "OFF" on AUTOMATIC/ cool and the exhaust blower off before performing any cleaning or maintenance. There is a risk of shock if the appliance is not unplugged before servicing the appliance.

PROPER SHUTDOWN PROCEDURE

- MANUAL SETTING screen and let the appliance completely cool. The exhaust blower must be off before you can unplug the appliance before servicing.
- 2. Smoke spillage into the room can occur if the appliance is not cool before unplugging.

NOTE: Performing this routine service will require approximately 20 minutes a month depending on type and quality of fuel you burn.

CLEANING OR INSPECTION	FREQUENCY		DAILY	WEEKLY	In 2 Weeks	YEARLY
FIREPOT Softwood Pellets	Every 5 bags	-OR-		Х		
FIREPOT Hardwood Pellets	Every 3 bags	-OR-		Х		
FIREPOT Corn, Wheat, or Sunflower Seeds	Every 1 bag	-OR-	Х			
ASHPAN Wood Pellets	Every 5 bags	-OR-		Х		
ASHPAN Alternate Fuel	Daily	-OR-	Х			
HEAT EXCHANGER	Every 1 ton of fuel	-OR-			Х	
EXHAUST BLOWER	Every 3 tons of fuel	-OR-				Х

Baffle Latches Locating ears - 1 on each side. Fit behind Insert flat head screw driver into "V" bottom edge.

section and push down and the bottom

of the latch will fall forward off of post



The firepot floor and firepot air holes will need to be scraped occasionally depending on the quality of fuel being used. Use a putty knife, a flat head screwdriver or the firepot clean-out tool provided to remove excess carbon from the firepot.

CLEANING & MAINTENANCE

and Phillips screwdriver; 11/32 Nut-driver or wrench.





* Shop Vac and Micro Cleaning Kit can be purchased at your local hardware store.

- 1. It is necessary to remove the baffle to gain access to the heat exchanger. Complete instructions for removing the baffle can be found in your Owner's Manual.
- 2. Vacuum the ash from the heat exchanger with an upholstery brush to remove the majority of the ash. Be sure to vacuum the back of the baffle also. Inspect the drop tube and remove any residue buildup in the drop tube. Figure 2.

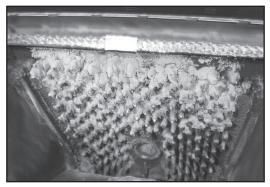


Figure 1 - Example of a dirty heat exchanger

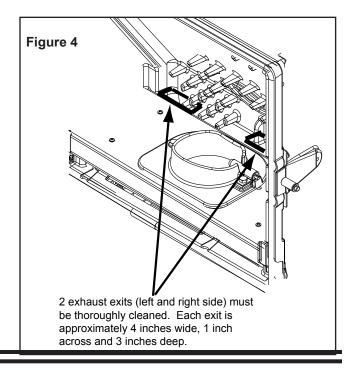


Tools Needed: Shop Vac* and Micro Cleaning Kit*; flat head 3. Assemble the crevice tool from the Micro Cleaning Kit to attach to a Shop Vac. Figure 3.



Figure 3

- 4. Use the crevice tool to finish cleaning the heat exchanger fins. It is critical that the 2 exhaust exits the back of the firebox floor (left and right) be thoroughly cleaned. Figure 4. There are several ways this can done.
 - a. Use the crevice tool.
 - b. Attach a hose 1/2 inch (12.7mm) in diameter and approximately 2 feet (607mm) in length to your vacuum hose.
 - c. Use a bottle brush and push the ash down to the bottom. Remove the combustion (exhaust) blower and then vacuum out the ash. Figures 5-8 on page 4.



- 5. Removing the Combustion (Exhaust) Blower
- a. The combustion blower is mounted in the bottom right rear of the appliance. **Figure 5.**
- b. Use an 11/32 nut driver to loosen all six nuts, but do not remove. Rotate the blower and remove from the housing. **Figure 6.**
- c. Set the blower on the top of the housing for the stove and place on the firebox floor for the insert. You do not need to disconnect the wires. **Figure 7.**
- d. Vacuum out the exhaust area. Figure 8.
- e. A view of the inside of the exhaust area. Figure 9.

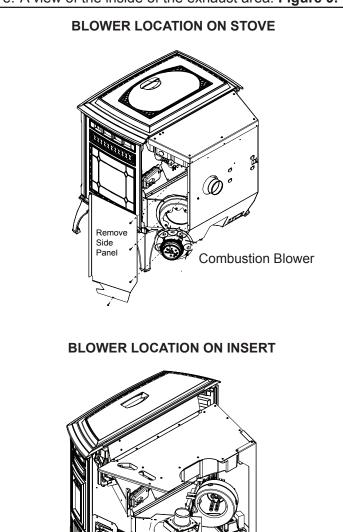


Figure 5



Figure 6

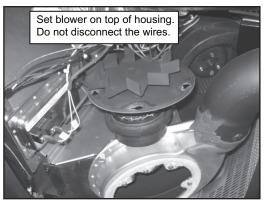
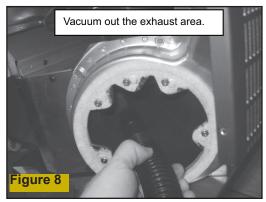


Figure 7 - Stove is shown in this example

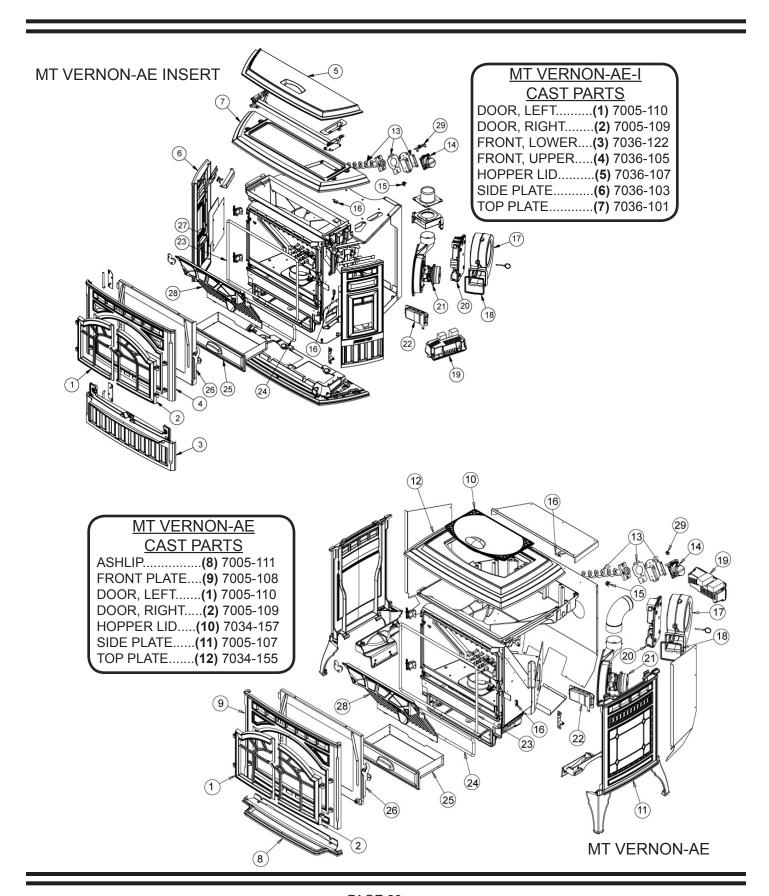




Combustion Blower

PARTS LIST (REFER TO EXPLODED VIEW FOR PART LOCATION)

REPLACEMENT PARTS:	GASKETS:	
AIR INTAKE SHIELD 7034-224	CONVECTION(18) 7000-32	9
BAFFLE: (28) SRV7034-261	EXHAUST BLOWER TRANSITION7000-33:	
	EXHAUST (ROUND ORANGE)SRV7000-42	
BLOWERS:	FEED MOTOR GASKET7034-14	
CONVECTION (180cfm)(17) SRV7000-260	FIREPOT GASKET	
EXHAUST(21) 7034-033	THE OT GROWE I	0
22221001(21) / 001 000	LOG SETLOGS-60-Al	F
CAST PARTS: (add mbk,pmh,csb,cwl to part # for color)	EOG SET	
See exploded view	OUTSIDE AIR KIT. OAK-	3
COMPONENT PACKS (FS & I):	<u>POWER CORD (120V)</u> 812-1180	
MATTE BLACK (FS)7034-034(insert)7036-018	POWER CORD (12V BATTERY)12VCORD-A	
MAHOGANY (FS)7034-037(insert)7036-021	POWER SUPPLY. (19) SRV7000-324	1
SIENNA BRONZE (FS)7034-035(insert).7036-019		
WILLOW (FS)7034-036(insert)7036-020		
	THERMOCOUPLE (FIREPOT)SRV7034-24	
<u>CONTROL BOARD</u> (20) SRV7000-456	THERMOCOUPLE (DROP TUBE)SRV7000-38	
	<u>T-STAT BLOCK</u> SRV7034-20	0
DOOR / ASHPAN PARTS:		
ASHPAN ASSY(25) SRV7034-069	<u>VACUUM SWITCH.</u> (22) SRV7000-53	
Latch (roller)SRV7000-494	<u>VACUUM HOSE.</u> 7000-37	3
(older units)		
Latch (new style roller)SRV7000-532	WALL CONTROL SRV7000-45	1
(SN 00700109156 OR HIGHER)		
(SN 00700204651 OR HIGHER)	WIRE HARNESS & SENSOR PARTS:	
GASKET FOR ASHPAN (3/4")(24) 7034-178	AUTOCLEAN MICRO-SWITCH	
GASKET FOR DOOR (3/4")(23) 7034-177	FEED MOTOR OPTICAL SENSOR	
GASKET, GLASS7000-377/10	FUEL LEVEL SENSOR	
GLASS ASSY w/Gasket(26) 7034-007	OVERHEAT SENSOR (SNAP DISC)(15) 230-129	
GLASS SIDE ASSY (1pc, insert only)(27) 414-5380	THERMOSTAT WIRE 3 COND	
	TIBRINGS III WINE 3 COND	
FEED MOTOR, DC(14) SRV7000-313	HARNESS (AUTOCLEAN, AUGER, VAC SWTCH, 10-PIN	
<u>FEED ASSEMBLY</u> (13) 7034-004	CONNECTOR)SRV7034-19) 1
FIREPOT PARTS:	HARNESS (BATTERY BACK-UP)7034-20	12
AUTOCLEAN MOTOR7034-020	HARNESS (CONVECTION BLOWER)7034-21	
FIREPOT RISER CLAMP7034-012	HARNESS (DOOR/HOPPER SENSORS)SRV7034-19.	
FIREPOT (BOTTOM SLIDE PART)7034-012	HARNESS (IGNITER)SRV7034-19	
FIREPOT (TOP PART)SRV7034-072	HARNESS (OVERHEAT SENSOR)7034-19	
IGNITER, HEATING ELEMENTSRV7000-226	HARNESS (POWER OUT A/C)7034-220	
T-COUPLE COVERSRV7000-220	HARNESS (POWER OUT D/C)7034-22	
1-COULLE COVERSKV /034-100	HARNESS (PWR CORD TO PWR SUPPLY)7034-201	
FUSE (15 AMP)7000-491/10	HARNESS (T-STAT/WALL CONTROL)SRV7034-200)
<u>ruse (13 AMr)</u> /000-471/10		



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