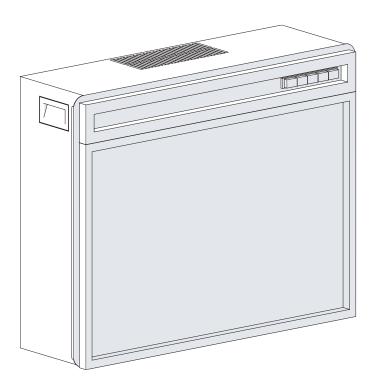
# **Service Manual**



**IMPORTANT SAFETY INFORMATION**: Always read this manual first before attempting to service this fireplace. For your safety, always comply with all warnings and safety instructions contained in this manual to prevent personal injury or property damage.

# **TABLE OF CONTENTS**

Operation
Exploded Parts Diagram
Replacement Parts
Exploded Parts Diagram
Replacement Parts
Wiring Diagram
Wiring Diagram
Flicker Motor Replacement
Flame LED Replacement
Cord Set Replacement
Display Board Replacement8
IR Sensor Replacement
Thermistor Replacement9
Heater Assembly Replacement
Switchboard Replacement
Control Board Replacement9
EF2570 COMPONENT PICTURES10
EF2870 COMPONENT PICTURES11
Troubleshooting Guide

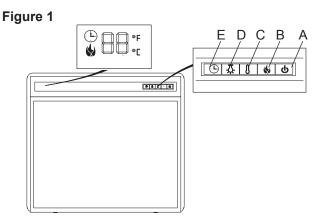
Always use a qualified technician or service agency to repair this fireplace.

<sup>!</sup> NOTE: Procedures and techniques that are considered important enough to emphasize.

**A** CAUTION: Procedures and techniques which, if not carefully followed, will result in damage to the equipment.

**WARNING:** Procedures and techniques which, if not carefully followed, will expose the user to the risk of fire, serious injury, or death.

# OPERATION



**WARNING:** This electric firebox must be properly installed before it is used.

The manual controls for the unit are located in the top right hand corner. (Figure 1)

! NOTE: Press any button to activate the On-Screen display before making any changes.

# A - ტ Standby

Turns the unit On and Off. When the unit is turned back On, the system will recall its last heat setting used.

- ! NOTE: When the unit is turned OFF the embers of the log set will not immediately go out. This is a designed feature to represent the embers of the fire slowly fading out
- ! NOTE: Although the heater has been turned off the fan may still run to prevent over heating.

# B - W Light Control

Adjusts the brightness of the flames and logs. Repeatedly pressing the light control button will cycle through the five different levels of flame brightness.

When adjusting the brightness of the flames this icon will light up with a blue light. The setting will be displayed on the main display with L1 being the lowest setting and L5 being the highest.

! NOTE: When the unit is in L4 the logs will slowly fade On and Off.

### C - 1 Thermostat

By pressing the  $\emptyset$ , on the firebox, or the  $\wedge$  and  $\vee$ , on the remote, the 7 different temperature settings that the firebox can be operated at will be cycled through.

60°C (99°F) 
$$\to$$
 30°C (86°F)  $\to$  28°C (82°F)  $\to$  26°C (78°F)  $\to$  24°C (75°F)  $\to$  22°C (71°F)  $\to$  "OF" (for use without the heater)

Press and hold the down arrow for 5 seconds to switch temperature readout from °C and °F.

#### **Disable Heat**

If desired, depending on the season, the heater on the unit can be disabled. The unit will operate in the same fashion, with remainder of the controls.

#### To disable:

Press and holding the **b** button on the unit for 5 seconds will disable the heater, indicated by the temperature display flashing.

#### To enable:

With the temperature displayed (it will be flashing), press and hold the **b** button on the unit for 5 seconds to reactivate the heating controls.

# D - - Down Lighting On/Off Turns the down lighting On and Off.

# E - Sleep Timer

This icon will light up with a blue light when using the Timed Shut-OFF function. A time will be displayed on the main display ranging from 10(minutes) to 6 (hours).

### Resetting the Temperature Cutoff Switch

Should the heater overheat, an automatic cut out will turn the heater off and it will not come back on without being reset. It can be reset by unplugging the unit and waiting 5 minutes before plugging the unit back in.

**A** CAUTION: If you need to continuously reset the heater, unplug the unit and call technical support at 1-888-346-7539.

## Remote Control (Figure 2)

The fireplace is supplied with an IR multifunction remote. Before the remote will operate the plastic insulating sheet needs to be removed.

#### **Battery Replacement**

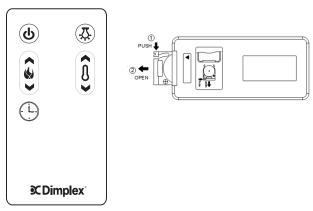
Battery Requirements: CR2025 button battery

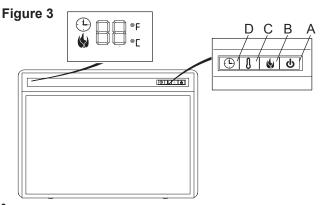
- 1 Locate and remove the battery bracket (Figure 2).
- (2) The battery has two sides, one with a button feature, and the other is flat.
- (3) Insert the battery with the button side down into the battery bracket, making sure the battery is firmly seated.



Battery must be recycled or disposed of properly. Check with your Local Authority or Retailer for recycling advice in your area.

### Figure 2





**WARNING:** This electric firebox must be properly installed before it is used.

The manual controls for the unit are located in the top right hand corner. (Figure 3)

! NOTE: Press any button to activate the On-Screen display before making any changes.

### А - U Standby

Turns the unit On and Off. When the unit is turned back On, the system will recall its last heat setting used.

- ! NOTE: When the unit is turned OFF the media lighting will not immediately go out. This is a designed feature to represent the embers of the fire slowly fading out.
- ! NOTE: Although the heater has been turned off the fan may still run to prevent over heating.

# B - W Light Control

Adjusts the lighting of the media. Repeatedly pressing the light control button will cycle through the five different colors of flame.

When adjusting the color of the media lighting this icon will light up with a blue light. The setting will be displayed on the main display with the flames in the corresponding color: L1 - Blue, L2 - Pink, L3 - White, L4 - Autocycle, and L5 -Orange.

# C - 0 Thermostat

By pressing the  $\emptyset$ , on the firebox, or the  $\wedge$  and  $\forall$ , on the remote, the 7 different temperature settings that the firebox can be operated at will be cycled through.

60°C (99°F) 
$$\to$$
 30°C (86°F)  $\to$  28°C (82°F)  $\to$  26°C (78°F)  $\to$  24°C (75°F)  $\to$  22°C (71°F)  $\to$  "OF" (for use without the heater)

Press and hold the down arrow for 5 seconds to switch temperature readout from °C and °F.

#### **Disable Heat**

If desired, depending on the season, the heater on the unit can be disabled. The unit will operate in the same fashion, with remainder of the controls.

#### To disable:

Press and holding the **b** button on the unit for 5 seconds will disable the heater, indicated by the temperature display flashing.

#### To enable:

With the temperature displayed (it will be flashing), press and hold the **b** button on the unit for 5 seconds to reactivate the heating controls.

# D - Sleep Timer

This icon will light up with a blue light when using the Timed Shut-OFF function. A time will be displayed on the main display ranging from 10 (minutes) to 6 (hours).

### **Resetting the Temperature Cutoff Switch**

Should the heater overheat, an automatic cut out will turn the heater off and it will not come back on without being reset. It can be reset by unplugging the unit and waiting 5 minutes before plugging the unit back in.

**A** CAUTION: If you need to continuously reset the heater, unplug the unit and call technical support at 1-888-346-7539.

### Remote Control (Figure 4)

The fireplace is supplied with an IR multifunction remote. Before the remote will operate the plastic insulating sheet needs to be removed.

#### **Battery Replacement**

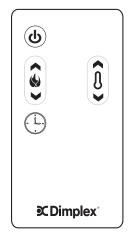
Battery Requirements: CR2025 button battery

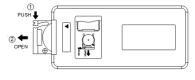
- 1 Locate and remove the battery bracket (Figure 4).
- 2 The battery has two sides, one with a button feature, and the other is flat.
- (3) Insert the battery with the button side down into the battery bracket, making sure the battery is firmly seated.



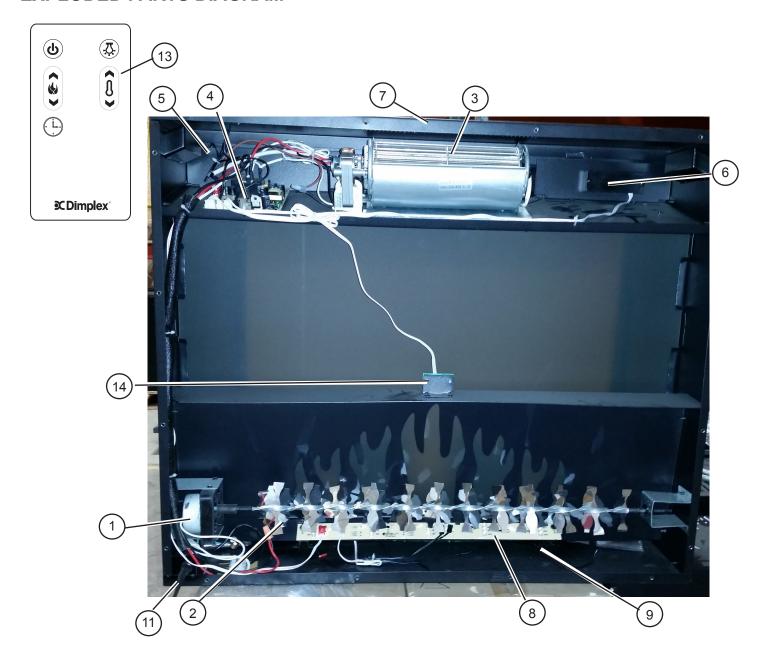
Battery must be recycled or disposed of properly. Check with your Local Authority or Retailer for recycling advice in your area.

### Figure 4





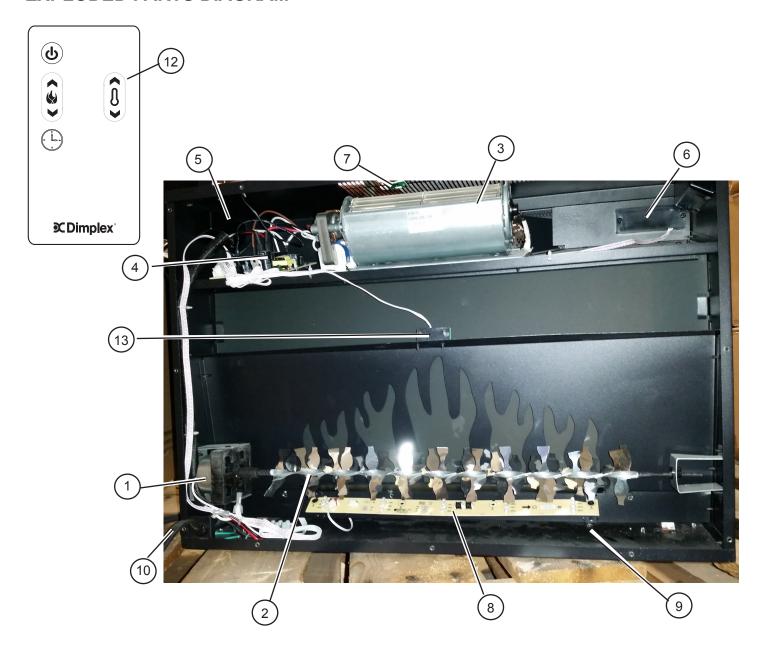
# **EXPLODED PARTS DIAGRAM**



# **REPLACEMENT PARTS**

1.	Flicker Motor	9601130100RP	9.	Ember LED's	9601130900RP
2.	Flicker Rod	9601130200RP	10.	Down Lights	9601131000RP
3.	Heater Assembly (with cutout)	9601130300RP	11.	Cord Set	.9601131100RP
4.	Control Board	9601130400RP	12.	Front Glass Assembly	9601131200RP
5.	Switchboard	9601130500RP		(comes with screws to attach to un	,
6.	Display Board	9601130600RP	13.	Remote Control	9601131300RP
7.	Thermistor	9601130700RP	14.	IR Sensor	9601131400RP
8.	Flame LED's	9601130800RP	15.	Logset Assembly	9601131500RP

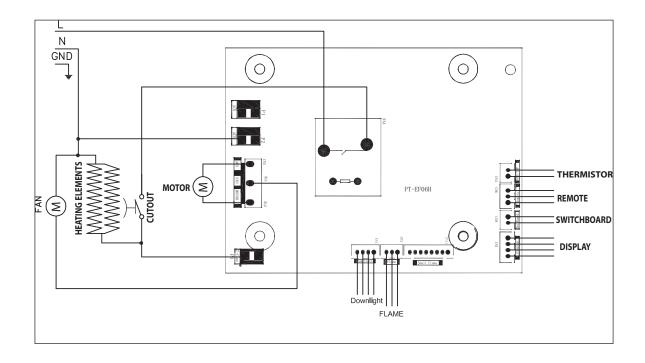
# **EXPLODED PARTS DIAGRAM**



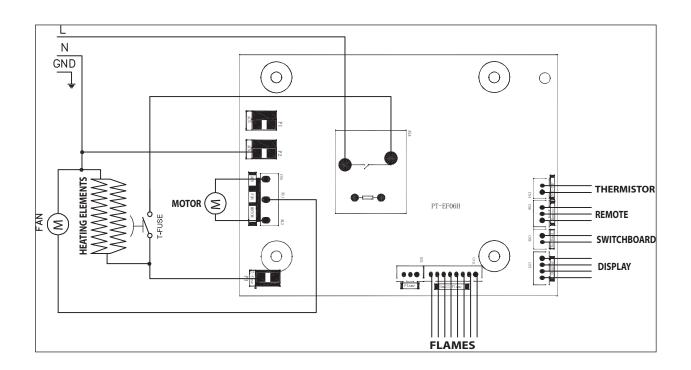
# **REPLACEMENT PARTS**

1.	Flicker Motor	9601130100RP	10. Cord Set	9601131100RP
	Flicker Rod		11. Front Glass	
3.	Heater Assembly (with cutout)	9601130300RP	(comes with screws to attach to un	iit)
4.	Control Board	9601130400RP	12. Remote Control	9601140600RP
5.	Switchboard	9601140200RP	13. IR Sensor	9601131400RP
6.	Display Board	9601130600RP	14. Crystals	9601140700RP
7.	Thermistor	9601130700RP	15. River Stones	9601140800RP
8.	Flame LED's	9601140300RP		
9	Ember LED's	9601140400RP		

# **WIRING DIAGRAM**



# **WIRING DIAGRAM**



7

### FLICKER MOTOR REPLACEMENT

Tools required: Phillips head screwdriver

**WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.

**WARNING:** Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.

- 1. Remove the firebox out of the cabinet.
- From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- Locate the flicker rod and gently move it horizontally to the right, to disengage the end from the rubber grommet on the flicker motor.
- 4. Locate the flicker motor retaining bracket
- Disconnect the two screws, from the outside of the unit, that secure the mounting bracket to the side, to remove the flicker motor.
- Remove the flicker motor from the bracket and trace the wires to the wire connectors or terminal block (mounted on the bottom of the unit).
- Disconnect the wiring connections noting their original locations, from the terminal block, and replace with the wires from the new motor.
- 8. Reassemble in the reverse order as above.

### FLAME LED REPLACEMENT

Tools required: Phillips head screwdriver

♠ WARNING: If the fireplace was operating prior to servicing allow at least 10 minutes for light bulbs and heating elements to cool off to avoid accidental burning of skin.

▲ WARNING: Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.

- 1. Remove the firebox out of the cabinet.
- From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- Locate the flicker rod and gently move it horizontally to the right, to disengage the end from the rubber grommet on the flicker motor.
- Locate the flame LED strip.
- 5. Remove the 2 retaining screws.
- Disconnect the wiring connection and install the new LED board.
- 7. Reassemble in the reverse order as above.

### CORD SET REPLACEMENT

Tools required: Phillips head screwdriver

**WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements

to cool off to avoid accidental burning of skin.

- **WARNING:** Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- 2. From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- Locate and disconnect the power cord wiring connections, on the terminal block, noting their original locations.
- 4. With needle nose pliers grasp the power cord strain relief grommet from inside the right rear of the panel and push while twisting to remove.
- Pull the power cord out through the hole in side of the unit.
- Insert the new power cord through the hole and connect all of the wiring connections in their original locations.
- Install the power cord strain relief grommet on the replacement cord.
- 8. Reassemble in the reverse order as above.

## **DISPLAY BOARD REPLACEMENT**

Tools required: Phillips head screwdriver

**★ WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.

- WARNING: Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- 2. From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- 3. Locate and remove the display board cover, secured with two screws.
- 4. Remove the two screws securing the display board to the unit.
- Trace the wire back to the control board and disconnect.
- 6. Connect the new control board and reassemble.
- **WARNING:** Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

#### IR SENSOR REPLACEMENT

**Tools required:** Phillips head screwdriver Needle Nose Pliers

**WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.

■ WARNING: Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of

- electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- 2. From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- Locate and disconnect the two tabs, by squeezing the tabs securing the IR sensor to the unit, with needle nose pliers.
- Trace the wire back to the control board and disconnect.
- 5. Connect the new IR sensor and reassemble.
- **WARNING:** Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

### THERMISTOR REPLACEMENT

Tools required: Phillips head screwdriver

- **WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- **WARNING:** Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- 2. From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- 3. Remove the top panel by removing the two screws on either end.
- 4. Locate and remove the thermistor from the unit, secured by one screw.
- 5. Trace the wire back to the control board and disconnect.
- 6. Connect the new thermistor and reassemble.
- **WARNING:** Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

### HEATER ASSEMBLY REPLACEMENT

Tools required: Phillips head screwdriver

- **WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- **WARNING:** Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- 3. Remove the top panel by removing the two screws on either end.
- 4. The heater assembly is attached to the unit with two brackets (one at the front of the unit and the other at the back) with two screws on each. Remove the heater

- assembly from the unit.
- 5. Disconnect the wiring connections, at the control board, and install the new heater assembly.
- 6. Reattach the wiring and reassemble.
- **WARNING:** Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

### SWITCHBOARD REPLACEMENT

Tools required: Phillips head screwdriver

- **WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- ★ WARNING: Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- 2. From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- Remove the top panel by removing the two screws on either end.
- 4. Locate and remove the switch board from the unit, secured by two screws.
- 5. Disconnect the wiring connection and install the new switchboard.
- 6. Connect the new switchboard and reassemble.
- **WARNING:** Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

### CONTROL BOARD REPLACEMENT

Tools required: Phillips head screwdriver

- **WARNING:** If the fireplace was operating prior to servicing allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- **WARNING:** Disconnect circuit power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.
- 1. Remove the firebox out of the cabinet.
- 2. From the back of the unit remove the screws (16 on the EF2870 and 12 on the EF2570) that secure the back panel to the firebox.
- 3. Remove the top panel by removing the two screws on either end.
- 4. Locate and remove the control board from the unit, secured by four screws.
- 5. Disconnect the wiring connection, noting their original locations, and install the new switchboard.
- Connect the new switchboard and reassemble.
- **WARNING:** Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

# **COMPONENT PICTURES**

Front view of unit

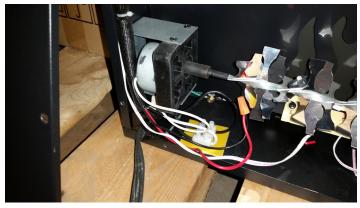


Flicker Motor, Terminal Block, Flicker Rod and Cord Set Connection



Heater Assembly, Control board & IR Sensor

Flame LED Assembly



**Display Board (with cover and without)** 





**Control Board** 





# **COMPONENT PICTURES**

Front view of unit



Flicker Motor, Terminal Block and Flicker Rod



Flame LED Assembly



**Display Board (with cover and without)** 



**Control Board and Switch Board** 





Control Board and Switch Board



**Thermistor** 



# TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION	PART NUMBER
General			
Circuit breaker trips or fuse	Short in unit wiring.	Trace wiring in unit.	
blows when unit is turned on	Improper circuit current rating	Additional appliances may exceed the current rating of the circuit breaker or fuse. Plug unit into another outlet or install unit on a dedicated 15 amp circuit.	
Lights dim in room while the unit is on	Unit is drawing close to circuit current rating	Move the unit to another outlet or install unit on a dedicated 15 amp circuit	
Power cord gets warm	Normal Operation	The power cord may get slightly warm to the touch when the heater is on	
	Defective power cord	Replace power cord if cord gets hot to the touch.	9601131100RP
Appearance			
Fireplace does not turn on	Improper operation	Refer to Operation Section	
with manual controls	No incoming voltage from the electrical wall socket	Check Fuse/Breaker Panel	
	Loose wiring	Check wiring connections	
	Defective switchboard	Replace the switchboard	25" - 9601140200RP 28" - 9601130500RP
	Defective control board	Replace the control board	9601130400RP
Fireplace does not turn on	Improper operation	Refer to Operation Section	
with the Remote Control	The batteries in the remote control are dead.	Install new battery into the remote control.	
	Defective remote control	Replace the remote control	25" - 9601140600RP 28" - 9601131300RP
	Defective IR sensor	Replace IR sensor	9601131400RP
	Defective control board	Replace the control board	9601130400RP
Display is not working	Loose wiring	Check wiring connections	
	Defective display board	Replace the display board	9601130600RP
	Defective control board	Replace the control board	9601130400RP
Display is showing "88"	Unit requires resetting	Turn all of the controls to Off and unplug the unit from the wall for 5-10 minutes, then plug back in	
Display has a "EEE" showing	Loose connection of the thermistor	Check wiring connection	
	Defective thermistor	Replace the thermistor	9601130700RP
Flame Frozen	Loose wiring	Check wiring connections	
	Defective Flicker Motor	Replace Flicker Motor	9601130100RP
Flame is not visible	Loose wiring	Check wiring connections	
	LED flame assembly is not working	Replace LED flame assembly	25" - 9601140300RP 28" - 9601130800RP
	Defective control board	Replace the control board	9601130400RP
Flame Shudder	Defective Flicker Motor	Replace Flicker Motor	9601130100RP
Media is not lighting up	Loose wiring	Check wiring connections	
	Ember LED light assembly is not working	Replace ember LED light assembly	25" - 9601140400RP 28" - 9601130900RP
Light leaking around the log set (if applicable)	Log set not positioned properly	Check log set for proper fit	

Heater is not turning off   Improper operation   Defective switchboard   Refer to Operation Section   Defective switchboard   Replace switchboard   25'-9601140200RP   28'-9601130500RP   Defective thermistor   Replace thermistor   9601130700RP   Defective control board   Replace the control board   9601130700RP   Morpholy operation   Defective control board   Refer to Operation Section   Improper operation   Turn all of the controls to Off and unplug the unit from the wall for 5-10 minutes, then plug back in   Defective switchboard   Replace switchboard   25'-9601140200RP   28'-9601130300RP   Defective switchboard   Replace switchboard   25'-9601140200RP   28'-9601130300RP   Defective heater assembly   Replace heater assembly   9601130300RP   Defective control board   Replace the the tenter of intide to the tenter assembly   Replace the atter assembly   Replace the tenter assembly   Replace the tenter assembly   Replace the tenter assembly   Replace the tenter is the tenter is intitlely turned on. The heater is burning of any dust accumulated during manufacturing or operation.    Defective heater assembly   Replace	PROBLEM	CAUSE	SOLUTION				
Defective switchboard   Replace switchboard   25"-9601140200RP 28"-9601130500RP	Heater	Heater					
Defective thermistor   Replace thermistor   9601130500RP	Heater is not turning off	Improper operation	Refer to Operation Section				
Defective control board   Replace the control board   9601130400RP		Defective switchboard	Replace switchboard				
Improper operation   Refer to Operation Section		Defective thermistor	Replace thermistor	9601130700RP			
flame effect is still function ing    Unit requires resetting		Defective control board	Replace the control board	9601130400RP			
ing back in the vall for 5-10 minutes, then plug back in trace wirring in unit  Loose wiring Trace wirring in unit  Defective switchboard Replace switchboard 25" - 9601140200RP 28" - 9601130500RP 28" - 9		Improper operation	Refer to Operation Section				
Defective switchboard Replace switchboard 25"-9601140200RP 28"-9601130500RP  Defective heater assembly Replace heater assembly 9601130300RP  Defective control board Replace the control board 9601130400RP  Heater is turning off after a couple of minutes of operation Defective heater assembly Pefective heater assembly Pefective heater assembly Replace heater assembly Pefective heater assembly Pefective heater assembly Replace heater assembly Pefective heater assembly Replace heater assembly Pefective heater is initially turned on. The heater is burning off any dust accumulated during manufacturing or operation.  Defective heater assembly Replace heater assembly Pefective heater assembly		Unit requires resetting	unit from the wall for 5-10 minutes, then plug				
Defective heater assembly   Replace heater assembly   9601130300RP		Loose wiring	Trace wiring in unit				
Defective control board   Replace the control board   9601130400RP		Defective switchboard	Replace switchboard				
Heater is turning off after a couple of minutes of operation    Defective heater assembly   Defective heater assem		Defective heater assembly	Replace heater assembly	9601130300RP			
couple of minutes of operation         Assembly         cavity are free of dirt/dust.           Heater emits an odor         Defective heater assembly         Replace heater assembly         9601130300RP           Heater emits an odor         Normal Operation         Normal operation is when the heater emits an odor for a brief period after the heater is initially turned on. The heater is burning off any dust accumulated during manufacturing or operation.         9601130300RP           Heating element is glowing red         Normal Operation         Small glowing sections of the element are considered normal.         9601130300RP           Defective heater assembly         If larger glowing sections are causing the heater to trip the thermal cutout, unplug unit, discontinue use and replace heater assembly.         9601130300RP           Noise         Excessive noise with the heater on         Dirty Heater Assembly         Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.         9601130300RP           Grinding or excessive noise with the heater off         Plicker rod hitting or rubbing against internal components         Ensure rod is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.		Defective control board	Replace the control board	9601130400RP			
Heater emits an odor  Normal Operation  Normal Operation is when the heater emits an odor for a brief period after the heater is initially turned on. The heater is burning off any dust accumulated during manufacturing or operation.  Defective heater assembly Replace heater assembly 9601130300RP  Heating element is glowing red  Normal Operation  Small glowing sections of the element are considered normal.  Defective heater assembly If larger glowing sections are causing the heater to trip the thermal cutout, unplug unit, discontinue use and replace heater assembly.  Noise  Excessive noise with the heater on  Dirty Heater Assembly Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Defective heater assembly Replace heater assembly 9601130300RP  Grinding or excessive noise with the heater off  Flicker rod hitting or rubbing against internal components  Finance red is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.	couple of minutes of opera-						
an odor for a brief period after the heater is initially turned on. The heater is burning off any dust accumulated during manufacturing or operation.  Defective heater assembly Replace heater assembly 9601130300RP  Heating element is glowing red  Normal Operation Small glowing sections of the element are considered normal.  Defective heater assembly If larger glowing sections are causing the heater to trip the thermal cutout, unplug unit, discontinue use and replace heater assembly.  Noise  Excessive noise with the heater on  Dirty Heater Assembly Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Defective heater assembly Replace heater assembly 9601130300RP  Grinding or excessive noise with the heater off  Elicker rod hitting or rubbing against internal components  Ensure rod is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.	tion	Defective heater assembly	Replace heater assembly	9601130300RP			
Heating element is glowing red  Normal Operation  Small glowing sections of the element are considered normal.  Defective heater assembly  If larger glowing sections are causing the heater to trip the thermal cutout, unplug unit, discontinue use and replace heater assembly.  Noise  Excessive noise with the heater on  Dirty Heater Assembly  Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Defective heater assembly  Replace heater assembly  9601130300RP  Flicker rod hitting or rubbing against internal components  Finsure rod is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.	Heater emits an odor	Normal Operation	an odor for a brief period after the heater is initially turned on. The heater is burning off any dust accumulated during manufacturing				
red considered normal.  Defective heater assembly If larger glowing sections are causing the heater to trip the thermal cutout, unplug unit, discontinue use and replace heater assembly.  Noise  Excessive noise with the heater on Dirty Heater Assembly Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Defective heater assembly Replace heater assembly 9601130300RP  Grinding or excessive noise with the heater off Flicker rod hitting or rubbing against internal components in the bracket, spinning freely away from other components. Replace if necessary.		Defective heater assembly	Replace heater assembly	9601130300RP			
heater to trip the thermal cutout, unplug unit, discontinue use and replace heater assembly.  Noise  Excessive noise with the heater on  Dirty Heater Assembly  Dirty Heater Assembly  Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Defective heater assembly  Replace heater assembly  9601130300RP  Grinding or excessive noise with the heater off  Flicker rod hitting or rubbing against internal components  Ensure rod is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.		Normal Operation					
Excessive noise with the heater on  Dirty Heater Assembly  Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Defective heater assembly  Replace heater assembly  Grinding or excessive noise with the heater off  Flicker rod hitting or rubbing against internal components  Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.  Persure rod is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.		Defective heater assembly	heater to trip the thermal cutout, unplug unit,	9601130300RP			
heater on cavity are free of dirt/dust.  Defective heater assembly Replace heater assembly 9601130300RP  Grinding or excessive noise with the heater off Flicker rod hitting or rubbing against internal components in the bracket, spinning freely away from other components. Replace if necessary.	Noise	Noise					
Grinding or excessive noise with the heater off  Flicker rod hitting or rubbing against internal components  Ensure rod is straight and mounted properly in the bracket, spinning freely away from other components. Replace if necessary.		Dirty Heater Assembly					
with the heater off  against internal components  in the bracket, spinning freely away from other components. Replace if necessary.		Defective heater assembly	Replace heater assembly	9601130300RP			
Defective Flicker Motor Replace Flicker Motor 9601130100RP	_		in the bracket, spinning freely away from other				
		Defective Flicker Motor	Replace Flicker Motor	9601130100RP			