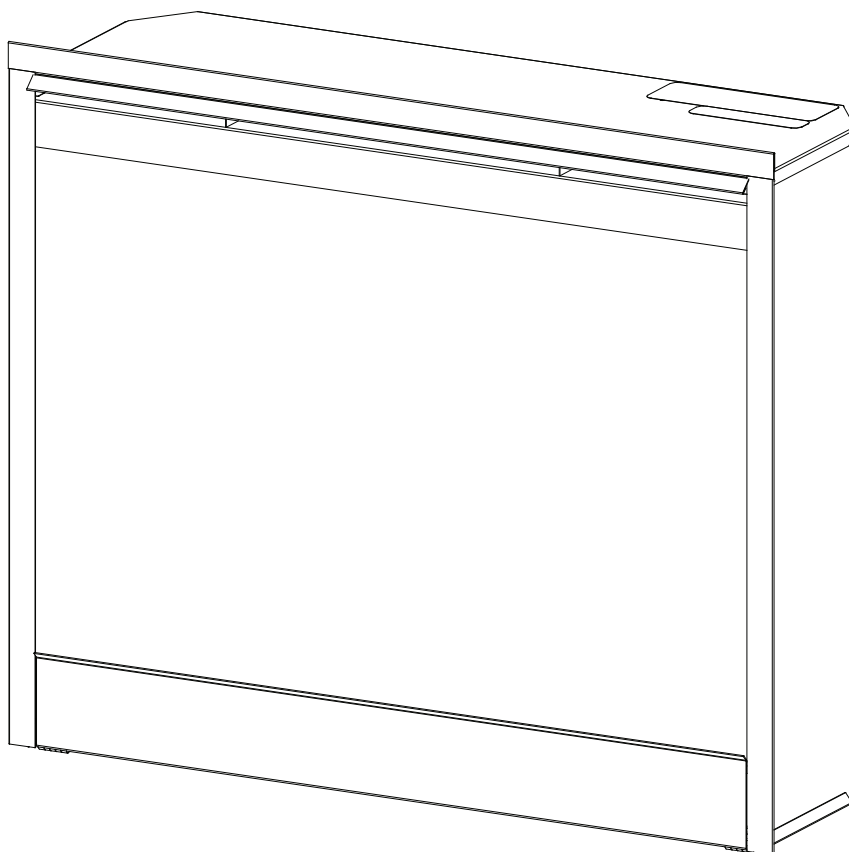


# Service Manual

## 26" Self Trimming Fireplace with 3 Stage Remote

Model Number:  
**DF2690**

**MOD: 0**



**Dimplex North America Limited**  
1367 Industrial Road • Cambridge ON Canada N1R 7G8  
1-800-668-6663 • [www.dimplex.com](http://www.dimplex.com)

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## Operation

This section will explain the function of each convenient control. (FIGURE 2)

To access the controls, flip open the control panel cover towards the bottom of the fireplace. (FIGURE 1)

FIGURE 1

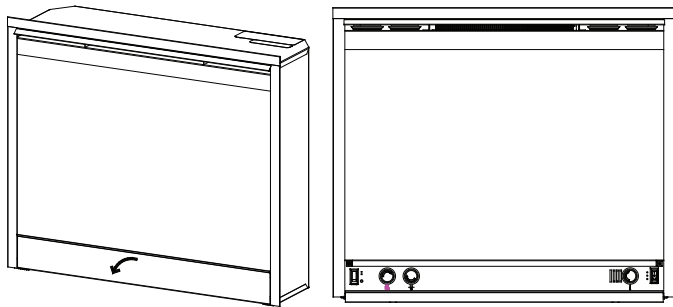
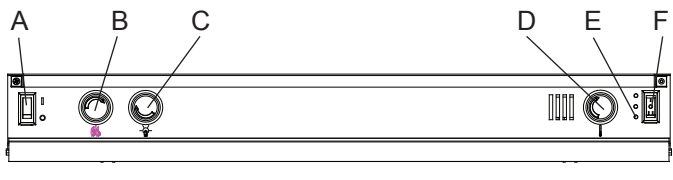


FIGURE 2



### A. Main Power On/Off Switch

The Main Power On/Off Switch supplies power to all fireplace functions (Heater/Flame).

### B. Flame Action Control

Turn the Flame Action Control knob to adjust the flame speed to the desired level.

### C. Flame Brightness Control

Turn the Flame Brightness Control knob to increase or decrease the brightness of the flame and embers.

### D. Thermostat Control

To adjust the temperature to your individual requirements, turn the thermostat control clockwise all the way to turn on the heater. When the room reaches the desired temperature, turn the thermostat knob counter clockwise until you hear a click. Leave thermostat in this position to maintain the room temperature at this setting. For additional heat, turn clockwise until you hear the click again and the heater will turn on.

### E. LED Indicators

Indicates the current function of the fireplace: Flame only; Flame and Low Heat; and Flame with High Heat.

### F. Manual Selection Switch

Toggles sequentially through the 3 levels of the fireplace's functions.

**NOTE:** The heater may emit a slight, harmless odor when first used. This odor is a normal condition caused by initial heating of internal heater parts and will not occur again.

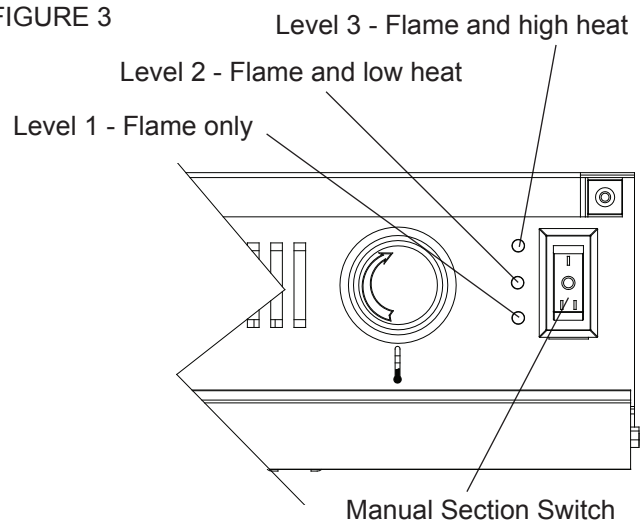
### Resetting The Temperature Cutoff Switch

This unit is equipped with a thermostat which controls the temperature of the room. It does this by turning the heater on and off. The heater is protected with a safety device to prevent overheating. Should the heater overheat, an automatic cut out will turn the heater off and it will come back on when temperature reaches its safety setting.

### Manual Selection Switch (FIGURE 3)

The Manual Selection Switch operates the fireplace levels sequentially, flame only to flame and low heat, to flame and high heat. The level is increased every time the "I" side of the switch is pressed. The fireplace can be turned off at any point by pressing the "II" side of the switch.

FIGURE 3



Level 1: The flame effect is turned on and the first red indicator light flashes momentarily.

Level 2: The flame effect remains on, the heater is activated to the low heat setting, and the first and second red indicator lights flash momentarily.

Level 3: The flame effect remains on, the heater is set to the high heat setting, and all three red indicators flash momentarily.

### Remote Control

The fireplace is supplied with a radio frequency remote control. This remote control has a range of approximately 50 feet (15.25 m). It does not have to be pointed at the fireplace and can pass through most obstacles (including walls).

### Remote Control Initialization

This procedure is required every time there is a loss of power to the remote control in the fireplace. (i.e. power failure, breaker tripped, main power switch is turned off)

1. Ensure that power is supplied through main service panel.
2. Locate manual controls. (FIGURE 1)
3. Activate main power switch.
4. Press and hold the Manual Selection Switch in the "I" position for 5-10 seconds. (The second red indicator light will flash). (FIGURE 3)
5. Press the ON button located on the remote control transmitter.

This will synchronize the remote control transmitter and receiver.

### Remote Control Usage

The remote control operates the fireplace levels sequentially. The level is increased every time the "ON" button on the transmitter is pressed. The fireplace can be turned off at any point by pressing the "OFF" button on the remote control transmitter.

Level 1: The flame effect is turned on and the first red indicator light is activated.

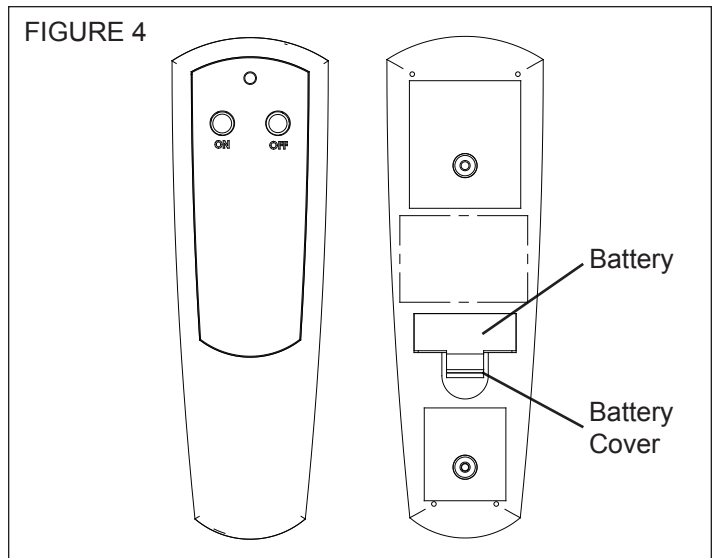
Level 2: The flame effect remains on, the heater is activated to the low heat setting, and the first and second red indicator lights remain activated.

Level 3: The flame effect remains on, the heater is set to the high heat setting, and all three red indicator lights are activated.

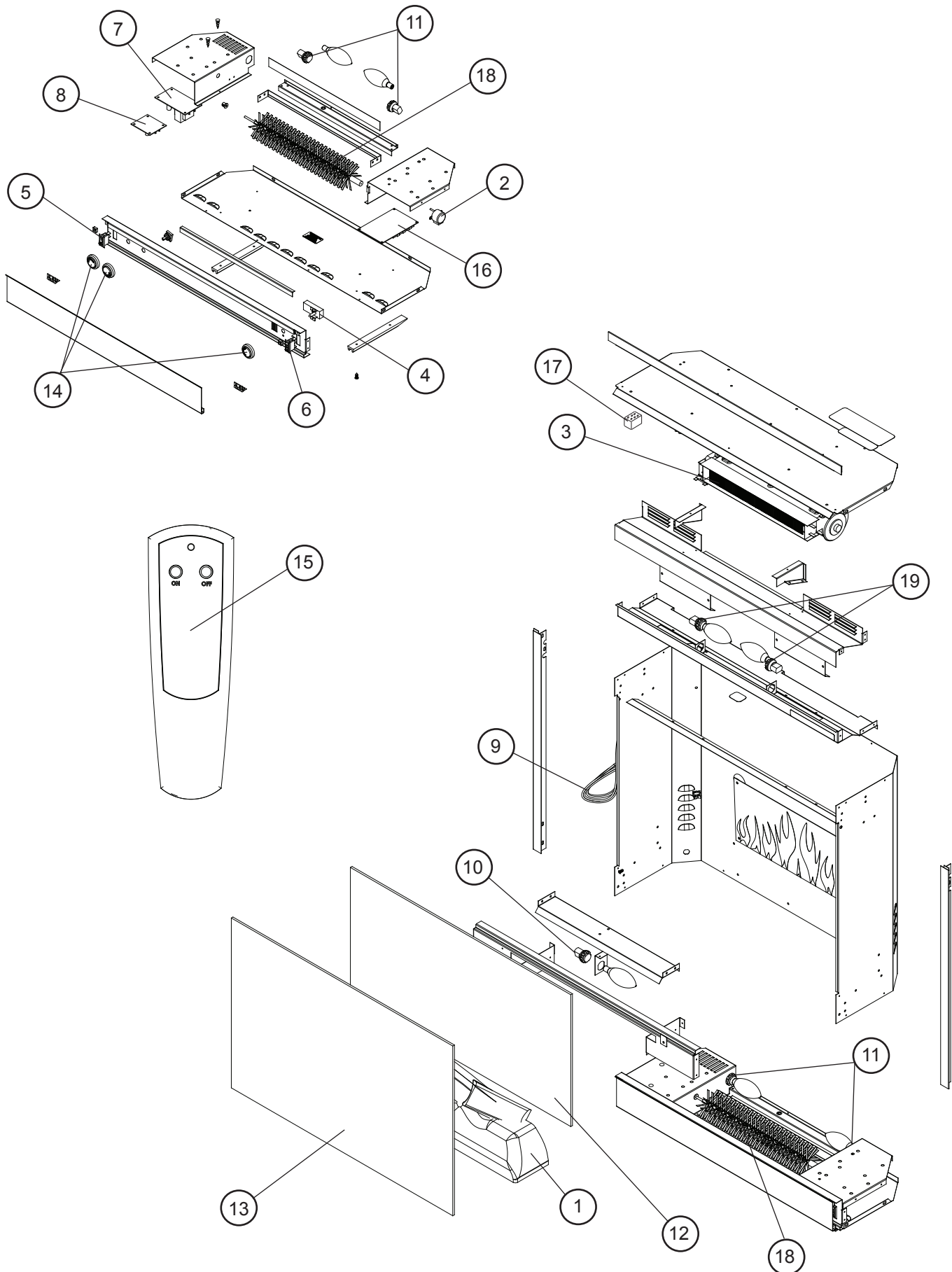
### Battery Replacement (FIGURE 4)

To replace battery:

1. Slide battery cover open on the hand held transmitter.
2. Install one 12-volt (A23) battery in the battery holder.
3. Close the battery cover.



## Exploded Parts Diagram



## Replacement Parts List

### DF2690

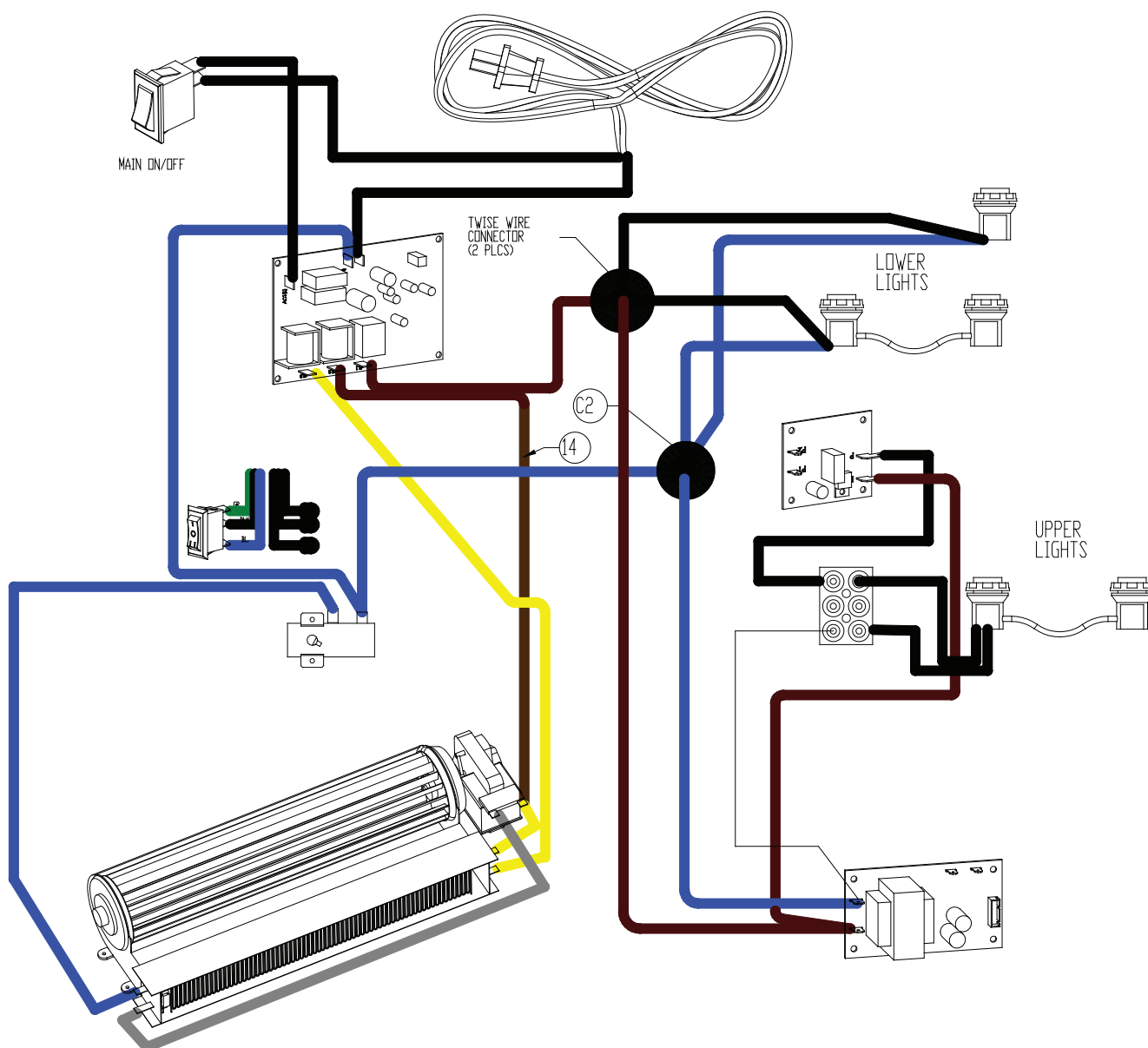
Part Number

6904410159

#### Replacement Part:

1. Log set	0437960100RP	10. Single Lamp holder	2500150300RP
2. Flicker Motor	3000240200KIT	11. Double Lamp holder	2500400300RP
3. Heater Assembly with Built-in Cutout	2000330100RP	12. Mirror	5901210200RP
4. Thermostat	2300150100RP*	13. Front Glass	5901220100RP
5. Main On/Off Switch	2800070700RP	14. Control Knob	8800000200RP
6. Manual Selection Switch	2800070500RP	15. Remote Transmitter	3000370600RP
7. Flame Action Control c/w Potentiometer	3000240500RP	16. Remote Receiver c/w Transmitter	3000430800RP
8. Light Dimmer Control c/w Potentiometer	3000250100RP	17. Terminal Block	4000070100RP
9. Cord Set	4100040200RP	18. Flicker Rod	5901250100RP
		19. Upper Light Harness	2500400300RP

## Wiring Diagram - DF2690



## **Front Glass Replacement**

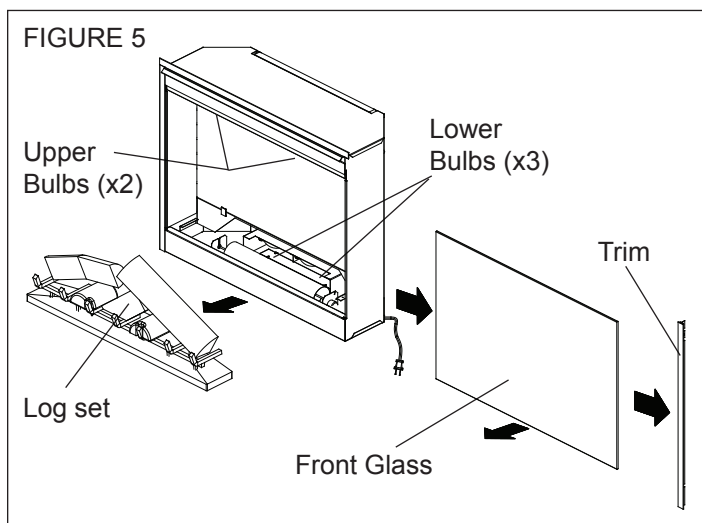
If unit was operating prior to servicing allow at least 10 minutes for light bulbs and heating element to cool off to avoid accidental burning of skin.

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

### **Replacement Procedure**

1. Slide fireplace out of mantel.
2. Lay unit on it's back for safe removal of front glass.
3. Remove three (3) Phillips screws from right side of trim.
4. Remove trim.
5. Slide glass to the right side of the fireplace to remove. (FIGURE 5)
6. Reassemble using replacement Front Glass in reverse order as described above.

**CAUTION:** Even though the glass is safety glass it may break if bumped, struck or dropped. Care must be taken when handling the glass.



## **Light Bulb Replacement**

If unit was operating prior to servicing allow at least 10 minutes for light bulbs and heating element to cool off to avoid accidental burning of skin.

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

Light bulbs need to be replaced when you notice a dark section of the flame or when the clarity and detail of the log exterior disappears. There are two bulbs at the top of the opening that illuminate the log set exterior and three bulbs under the log set which generate the flames and embers.

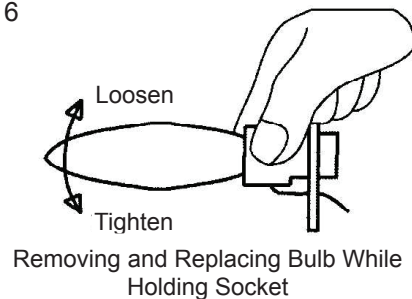
It is a good idea to replace all of the light bulbs at one time if they are close to the end of their rated life. Group replacement will reduce the number of times you need to open the unit to replace the light bulbs.

### **Upper Bulb Requirements:**

A quantity of two (2) chandelier or candelabra bulbs with an E-12 (small) socket base, 15 watt rating are required.

**CAUTION: Do Not Exceed 15 Watts Per Bulb**

FIGURE 6



### **Upper Bulb Replacement Procedure**

1. Slide fireplace out of mantel.
2. Lay unit on it's back for safe removal of front glass.
3. Remove three (3) Phillips screws from right side of trim.
4. Remove trim.
5. Slide glass to the right side of the fireplace to remove. (FIGURE 5)

**CAUTION:** Even though the glass is safety glass it may break if bumped, struck or dropped. Care must be taken when handling the glass.

4. The upper bulbs are located in each corner of the upper part of the fireplace as shown in FIGURE 5.
5. Remove the upper light block by removing the (four) 4 Philips mounting screws located under each of the bulbs.
6. Replace bulb(s) that require replacement, holding onto the light socket while unscrewing the bulb. (FIGURE 6)
7. Reassemble in the reverse order as above.

### **Lower Bulb Requirements:**

A quantity of three (3) chandelier or candelabra bulbs with an E-12 socket base, 60 watt rating are required.

**CAUTION: Do Not Exceed 60 Watts Per Bulb**

### **Lower Bulb Replacement Procedure**

1. Slide fireplace out of mantel.
2. Lay unit on it's back for safe removal of front glass.
3. Remove three (3) Phillips screws from the right side of trim.
4. Slide glass to right side of fireplace to remove. (FIGURE 5)

**CAUTION:** Even though the glass is safety glass it may break if bumped, struck or dropped. Care must be taken when handling the glass.



5. Pull the front edge of the plastic ember bed or plastic grate up and forward until the rear tab releases from the ledge located at the bottom of the mirror.

**IMPORTANT:** Only handle the log set by the ember bed.

**NOTE:** Log set fits tightly into firebox, some force may be necessary to remove.

6. Remove flicker rod by sliding flicker rod to the left away from the flicker motor and lifting out.
7. Remove light filter bracket (the metal bracket will have a tinted film adhered to it) for easier access to light bulbs.
8. Set log set in front of fireplace.
9. Unscrew bulbs counter clockwise.
10. Insert new bulbs.
11. Replace light filter bracket and flicker rod.
12. Replace the log set by inserting the front edge of the fireplace and push down on the rear edge of the ember bed until it snaps into place.
13. Lay unit on it's back and slide front glass back into position and attach trim.

## **Mirror Replacement**

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

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

### **Replacement Procedure**

1. Slide fireplace out of mantel.
2. Lay unit on it's back for safe removal of front glass.
3. Remove three (3) Phillips screws from the right side of trim.
4. Slide glass to right side of fireplace to remove. (FIGURE 5, Page 4)

**CAUTION:** Even though the glass is safety glass it may break if bumped, struck or dropped. Care must be taken when handling the glass.

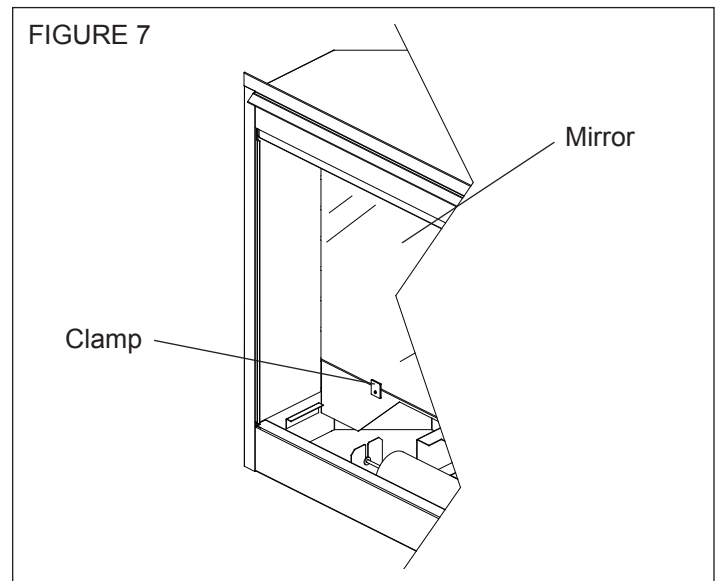
5. Pull the front edge of the plastic ember bed or plastic grate up and forward until the rear tab releases from the ledge located at the bottom of the mirror.

**IMPORTANT:** Only handle the log set by the ember bed.

**NOTE:** Log set fits tightly into firebox, some force may be necessary to remove.

6. Loosen but do not remove the two (2) Philips screws that clamp the mirror in place, and swivel down so that the clamp clears the edge of the mirror. (FIGURE 7)

7. Push the mirror up from underneath to clear the frame and remove.
8. Insert replacement mirror top end first and lay the bottom end gently in the bottom track of the frame.
9. Tighten clamps back into place and reassemble fireplace in reverse order as described above.



## **Main On/Off Switch Replacement**

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

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

### **Main On/Off Switch Replacement Procedure:**

1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7). The bottom panel is now free to be removed.
4. Locate the Main On/Off Switch mounted on the control panel on the left side (FIGURE 9) and disconnect the two (2) wiring clips noting their original locations.
5. Depress the two (2) retainer clips on the rear of the switch and push the switch out of the cover.
6. Properly orientate the new switch and re-connect all of the wiring clips and connections as before.
7. Reassemble in the reverse order as above.



FIGURE 8

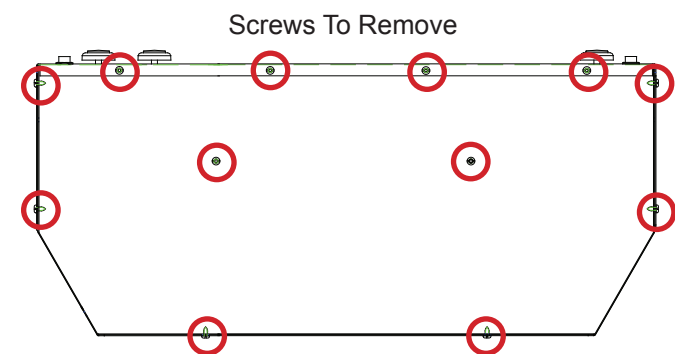
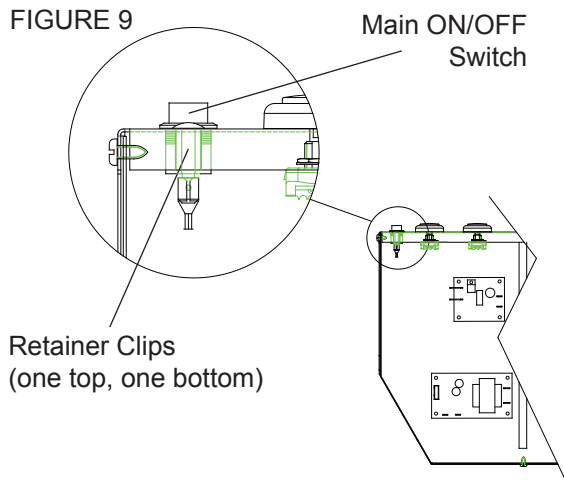


FIGURE 9



## Manual Selection Switch Replacement

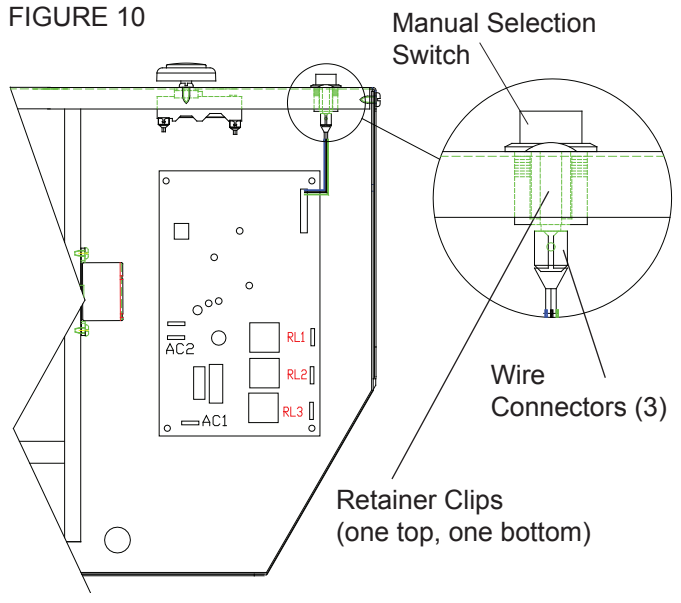
If the fireplace was operating prior to servicing allow at least 10 minutes for light bulbs and heating element to cool off to avoid accidental burning of skin.

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

### Replacement Procedure

1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8). The bottom panel is now free to be removed.
4. Locate the Manual Selection Switch mounted on the control panel on the right side (FIGURE 9) and disconnect the three (3) wiring clips noting their original locations.
5. Depress the two (2) retainer clips on the rear of the switch and push the switch out of the cover.
6. Properly orientate the new switch and re-connect all of the wiring clips and connections as before.

FIGURE 10



7. Reassemble in the reverse order as above.

## Light Dimmer Replacement

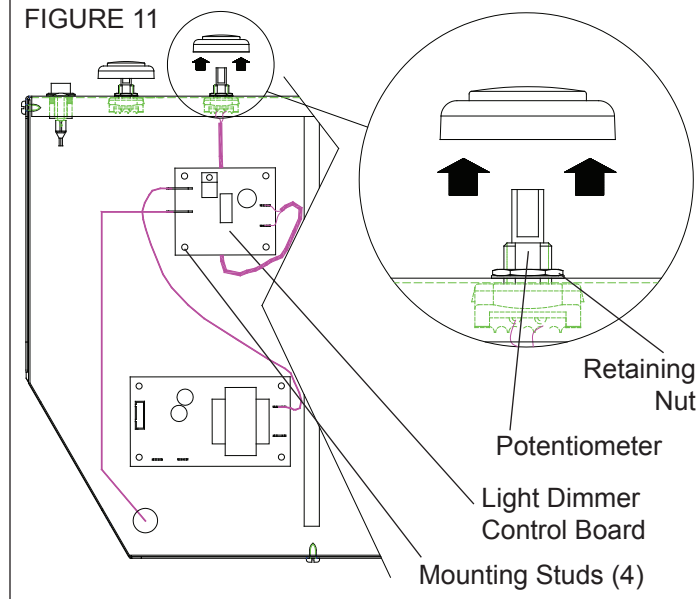
If the fireplace was operating prior to servicing allow at least 10 minutes for light bulbs and heating element to cool off to avoid accidental burning of skin.

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

### Replacement Procedure:

1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back); four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8). The bottom panel is now free to be removed.

FIGURE 11



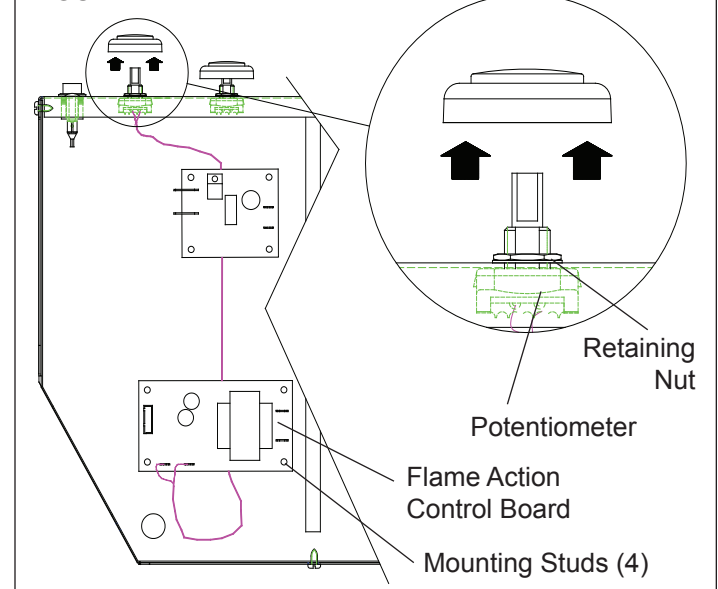
on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7). The bottom panel is now free to be removed.

4. Locate the Light Dimmer Control Board mounted on the left side (FIGURE 11, Page 6).
5. Disconnect the two (2) wire leads from the control board on the right hand side which connect to the dimmer's potentiometer, noting their original locations. (the wire runs underneath the control board to the potentiometer - FIGURE 11)
6. Pull off the Light Dimmer Control knob and unscrew the retaining nut. (FIGURE 11) The potentiometer can now be removed from the panel by pushing the potentiometer through the front of the panel and remove from inside the cabinet.
7. Disconnect the last two (2) remaining wire leads from the control board on the left hand side, noting their original locations.
8. The Light Dimmer Control board is fastened to the underside of the ember bed support by four (4) mounting studs, one in each corner. (FIGURE 11) Either squeeze each stud's clasp to release, or use side cutters to cut and remove each of the four corner mounting studs on the board. Clear both ends of the cut mounting stud from the control board and the support panel - new mounting studs are supplied with the replacement part.
9. Properly orientate the new potentiometer and control board and re-connect all of the wiring connections.
10. Reassemble in the reverse order as above.

potentiometer through the front of the panel and remove from inside the cabinet.

7. The Flame Action Control board is fastened to the underside of the ember bed support by four (4) mounting studs, one in each corner. (FIGURE 12) Either squeeze each stud's clasp to release, or use side cutters to cut and remove each of the four corner mounting studs on the board. Clear both ends of the cut mounting stud from the control board and the support panel - new mounting studs are supplied with the replacement part.

FIGURE 12



8. Properly orientate the new Flame Action Control board and potentiometer and re-connect all of the wiring connections.
9. Reassemble in the reverse order as above.

## **Flame Action Control Replacement**

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

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

### **Replacement Procedure:**

1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7)). The bottom panel is now free to be removed.
5. Locate the Flame Action Control mounted on the left hand side. (FIGURE 12)
6. Pull off the Flame Action Control knob and unscrew the retaining nut (FIGURE 12). The potentiometer can now be removed from the panel by pushing the

## **Flicker Motor/Flicker Rod Replacement**

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

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

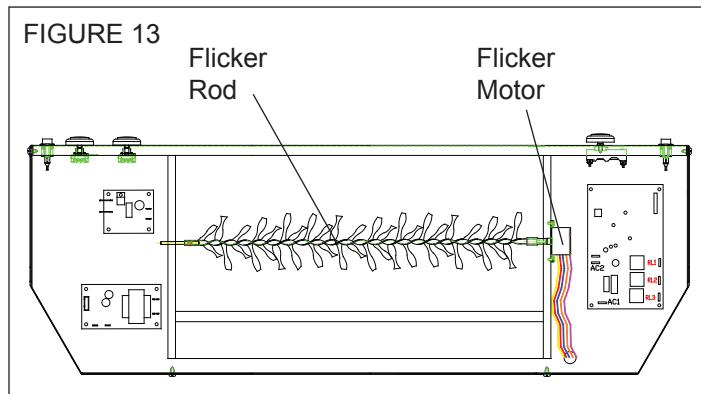
### **Replacement Procedure:**

1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7). The bottom panel is now free to be removed.

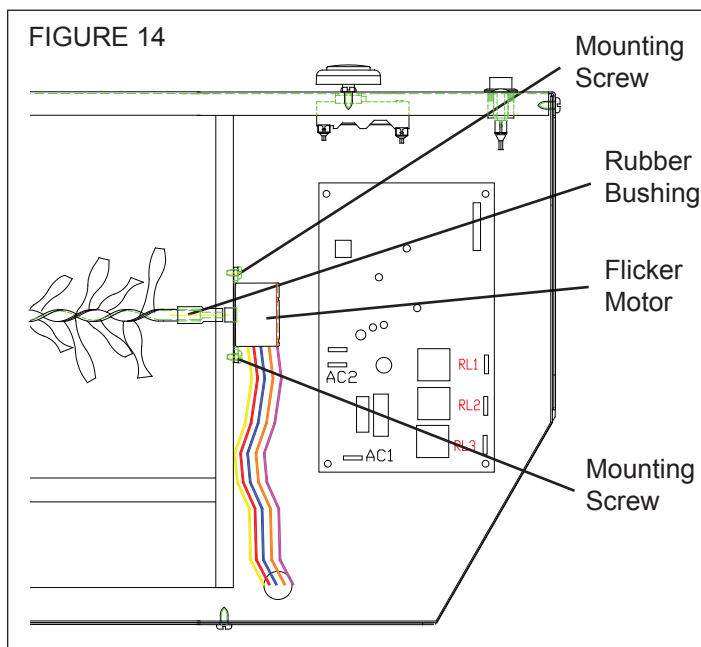
4. Locate Flicker Rod and Flicker Motor in the base assembly. (FIGURE 13)
5. Gently pull the Flicker Rod to the right as far as possible.

**NOTE:** When removing the Flicker Motor some damage may occur to the Flicker Rod. If the Flicker Rod is damaged, replace to insure proper operation.

6. Cautiously bend the Flicker Rod enough so that the remaining end of the Flicker Rod clears the plastic bushing.



7. Remove the Flicker Rod by pulling it free from the rubber bushing on the motor shaft. (FIGURE 14)
8. Before removing the Flicker Motor, cut the Flicker Motor wires (five (5) in total) close to the Flicker Motor end with wire cutters.
9. Remove the rubber bushing from the motor shaft by applying needle nose pliers to the motor shaft and twist the rubber bushing off of the motor shaft.
10. Remove the motor mounting screws and remove motor from the mounting bracket. (FIGURE 14)



11. Discard old Flicker Motor.
12. Pick up new Flicker Motor and cut wire leads to 3 1/2" long with wire cutters.
13. Using one of the supplied wire connectors from the Replacement Part Kit, place one (1) yellow wire from the new Flicker Motor and the yellow wire cut in step 8 into each terminal.
14. Secure the wire connector by crimping the 3M symbol with pliers.
15. Pull on end of wires to ensure a strong connection.
16. Repeat the process for the four (4) remaining wires. ENSURE THAT ALL WIRES ARE PAIRED BY COLOUR IN EACH CONNECTOR.
17. Properly orientate and secure the replacement Flicker Motor to the bracket with screws removed in step 9.
18. Replace rubber bushing on motor shaft.
19. Replace Flicker Rod.
20. Reassemble firebox and replace in mantel.

## **Thermostat Control Replacement**

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

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

## **Replacement Procedure:**

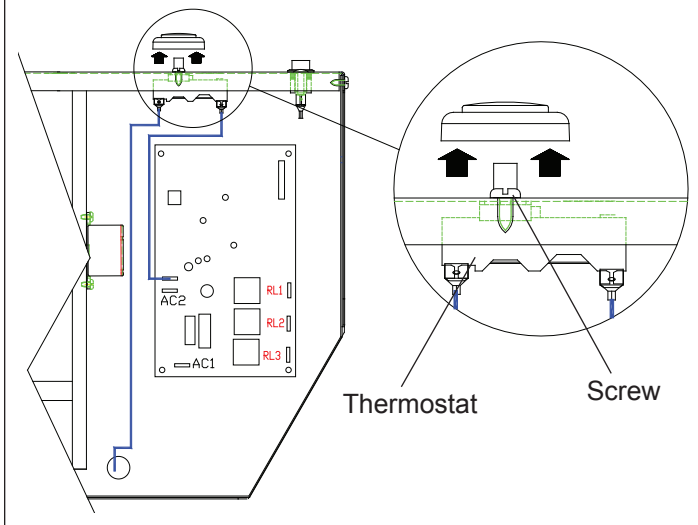
1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7). The bottom panel is now free to be removed.
5. Locate the thermostat control mounted on the control panel (FIGURE 15) and disconnect the two (2) wiring clips noting their original locations.
6. Pull off the thermostat control knob to expose the two (2) mounting screws. (FIGURE 15)
7. Remove the mounting screws and remove the thermostat control switch from inside the control panel.
8. Properly orientate the new heater thermostat control and reconnect the wiring connections.
9. Reassemble in the reverse order as above.

## **Power Cord Replacement**

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

Disconnect power before attempting any maintenance or

FIGURE 15

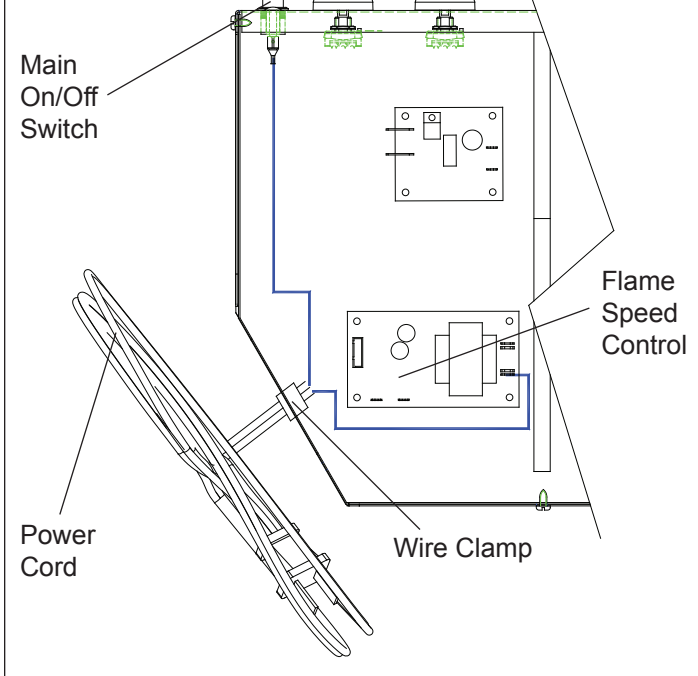


cleaning to reduce the risk of electric shock or damage to persons.

### Replacement Procedure:

1. Remove the firebox from the mantel.
2. Lay unit on its back.
3. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7). The bottom panel is now free to be removed.

FIGURE 16



5. Locate and disconnect the two (2) power cord wire connections: one from the bottom of the two (2) connectors on the Main On/Off Switch; the other on the Flame Speed Control board, noting their original locations. (FIGURE 16)
6. Using pliers, squeeze the sides of the plastic wire clamp from inside the bottom assembly area and push it through the chassis.
7. Release clamp from power cord and remove power cord.
8. Install replacement power cord through opening in the chassis and secure with clamp.
9. Reassemble in the reverse order as above.

### Remote Control Replacement

Remote Control hand held transmitters require no replacement procedure however, a reinitialization procedure may need to be followed. Refer to Page 1 for the Remote Initialization Procedure.

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

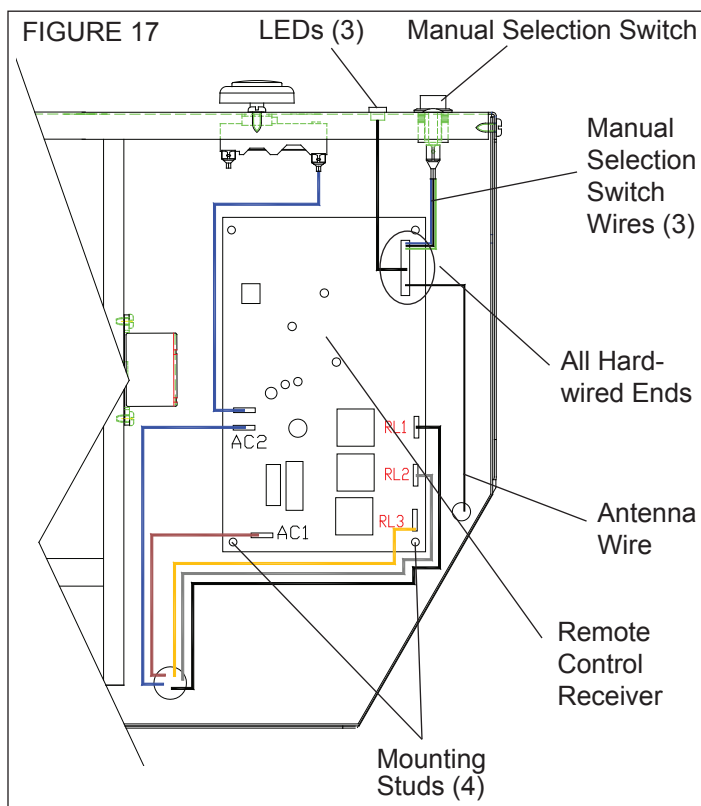
Disconnect power before attempting any maintenance or cleaning to reduce the risk of electric shock or damage to persons.

### Receiver Replacement Procedure:

1. Remove the firebox from the mantel.
2. Lay unit on its back for safe removal of front glass.
3. Remove three (3) Phillips screws from the right side of trim.
4. Slide glass to right side of fireplace to remove. (FIGURE 5, Page 4)
5. Pull the front edge of the plastic ember bed or plastic grate up and forward until the rear tab releases from the ledge located at the bottom of the mirror. (FIGURE 14)
6. Loosen but do not remove the two (2) Philips screws that clamp the mirror in place. (FIGURE 7, Page 6)
7. Push the mirror up to clear the frame and remove - storing it in a safe place away from high traffic areas.
8. Coming up from the bottom assembly, in the right, back corner is a wire with a taped "ANTENNA" label. The wire is held in place by a loose fitting zip tie. Roll the label around the wire and feed it through the zip tie.
9. Remove the 12 screws that fasten the bottom cover to the rest of the firebox. There are: two (2) screws on each side; two (2) screws on the back panel (you may have to tip the bottom of the fireplace up if it is laying on its back), four (4) screws in the front directly under the control panel; and two (2) screws on the bottom of the fireplace (see FIGURE 8, Page 7). The bottom panel is now free to be removed.
10. Locate the Remote Control Receiver (FIGURE 17) mounted underneath the log set support panel and

disconnect the six (6) wiring clips noting their original locations.

11. Disconnect the three (3) wire leads from the Manual Selection Switch. (the wires are hard-wired to the Remote Control Receiver) (FIGURE 17)
12. Pull the Antenna wire released in step 8 through the bottom of the chassis.
13. Locate the three (3) LEDs from inside the bottom assembly of the firebox. (FIGURE 17)
14. Using a flathead screwdriver, gently push on the rear edge of the plastic bushing surrounding each LED and push each LED out from the front of the control panel.
15. Clear any silicon that may be present and firmly grasp the sheathed ends of the wires leading to each LED and remove the plastic pushing from each LED. Each LED and paired wires can be fed back through the front control panel and into the bottom assembly area.



16. The Remote Control Receiver control board is fastened to the underside of the ember bed support by four (4) mounting studs, one in each corner. (FIGURE 17) Either squeeze each stud's clasp to release, or use side cutters to cut and remove each of the four corner mounting studs on the board. Clear both ends of the cut mounting stud from the control board and the support panel - new mounting studs are supplied with the replacement part.
17. Properly orientate the replacement Remote Control receiver and adhere to the control panel with the supplied/existing mounting studs.
18. Once the receiver board is mounted, reconnect the LEDs in reverse order as described in steps 14 - 15

and continue to reconnect and reassemble the fireplace in reverse order as described above.

## Heater Assembly Replacement

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

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

### Replacement Procedure

1. Remove the firebox from the mantel.

FIGURE 18

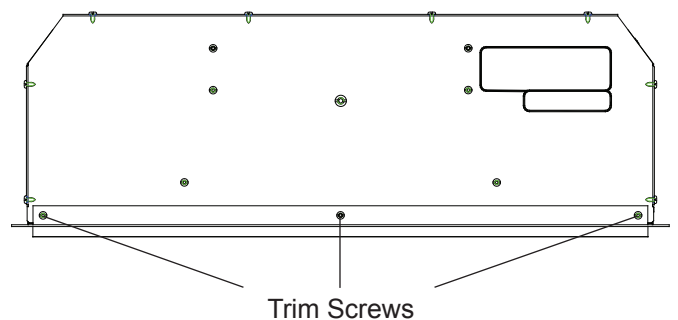
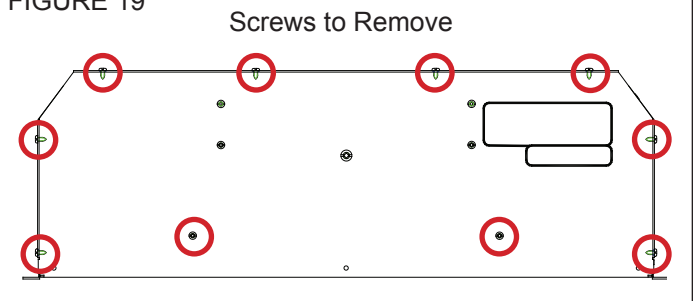
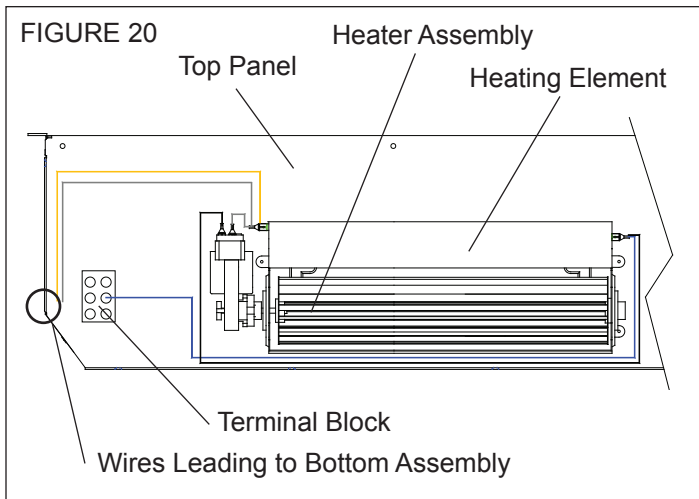


FIGURE 19



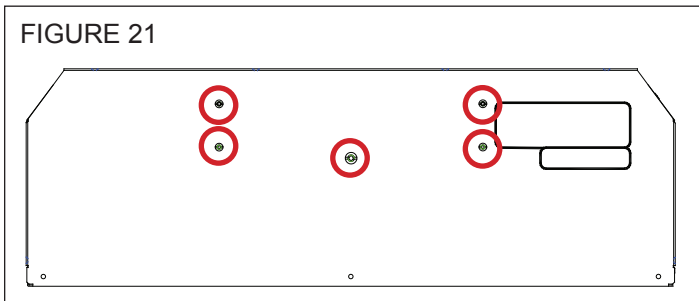
2. Remove top trim piece by unscrewing three (3) Philips head screws that lay behind the trim piece and along the top edge. (FIGURE 18)
3. Remove the 10 screws that fasten the top cover to the rest of the firebox. There are: (four) 4 screws at the back of the firebox, along the top; two (2) screws on each side and at the top of the firebox; and two (2) screws on the top of the firebox. (FIGURE 19, Page 11)
4. Flip the top panel over and place upside down on the top of the unit. You may experience some resistance as the Heater Assembly is mounted to the top panel and may be a snug fit inside the firebox. Orientate yourself with the placement of the Heater Assembly and wiring as shown in FIGURE 20.
5. Disconnect the two (2) wire connectors on the right side of the Heater Assembly (one blue, one black), the three (3) vertically stacked wire connectors attached to the left side of the heating element (one yellow and two grey), and the two (2) wire connectors on the left side of the Heater Assembly (one grey and one black),





noting all of their original positions.

6. Turn the top panel over and while supporting the Heater Assembly and panel in one hand, remove the five (5) heater mounting screws, noting the center screw is of a larger diameter. (FIGURE 21)



7. Separate the Heater Assembly from the top panel.
8. Properly orientate the new Heater Assembly and connect all of the wiring connections.
9. Reassemble in the reverse order as above.