

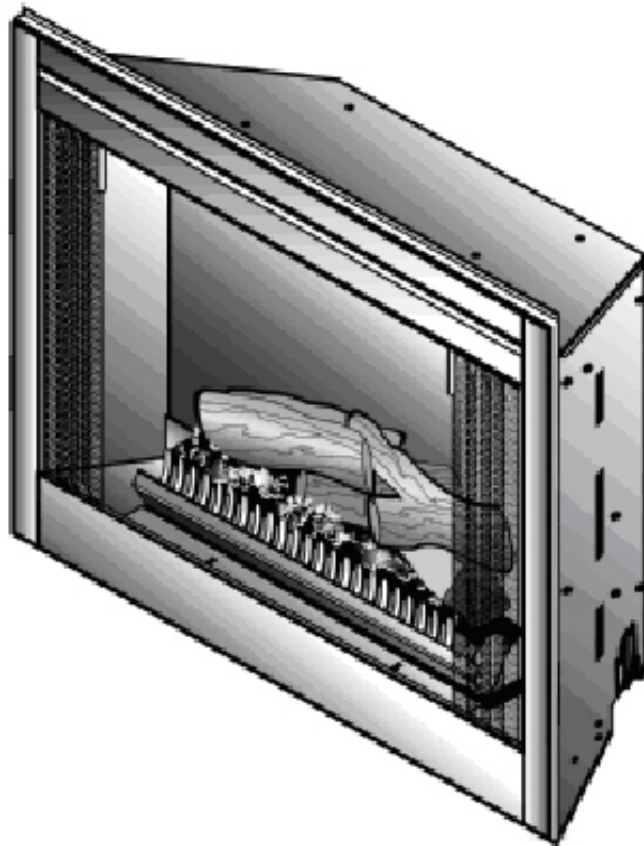
PARTS & SERVICE MANUAL FOR THE BUILT IN FIREPLACE

MODEL NUMBERS:

BF33ST/DX

BF39ST/DX

BF45ST/DX



 Dimplex®

TABLE OF CONTENTS

OPERATION	PAGE 1
VOLTAGE SELECTOR SWITCH LOCATION	PAGE 3
PARTS LIST DRAWING	PAGE 4
PARTS LIST	PAGE 5
WIRING DIAGRAM – LOWER SECTION	PAGE 7
WIRING DIAGRAM – UPPER SECTION	PAGE 8
WIRING DIAGRAM – SCHEMATIC	PAGE 9
LIGHT BULB REPLACEMENT	PAGE 10
MAIN ON/OFF SWITCH REPLACEMENT	PAGE 11
HEATER ON/OFF SWITCH REPLACEMENT	PAGE 12
FLAME MOTOR/FLAME ROD REPLACEMENT	PAGE 13
VOLTAGE SELECTOR SWITCH REPLACEMENT <i>(UNIT IS PERMENANTLY INSTALLED IN WALL)</i>	
BF33ST, BF33DX	PAGE 15
BF39ST, BF39DX, BF45ST, BF45DX	PAGE 17
VOLTAGE SELECTOR SWITCH REPLACEMENT <i>(UNIT CAN BE REMOVED FROM WALL)</i>	PAGE 19
HEATING ELEMENTS REPLACEMENT <i>(UNIT IS PERMENANTLY INSTALLED IN WALL)</i>	PAGE 20
HEATING ELEMENTS REPLACEMENT <i>(UNIT CAN BE REMOVED FROM WALL)</i>	PAGE 21
BLOWER MOTOR/BLOWER REPLACEMENT <i>(UNIT IS PERMENANTLY INSTALLED IN WALL)</i>	
BF33ST, BF33DX	PAGE 22
BF39ST, BF39DX, BF45ST, BF45DX	PAGE 24

BLOWER MOTOR/BLOWER REPLACEMENT
(UNIT CAN BE REMOVED FROM WALL)

PAGE 25

TEMPERATURE LIMIT SWITCH REPLACEMENT
(UNIT IS PERMENANTLY INSTALLED IN WALL)

BF33ST, BF33DX
BF39ST, BF39DX, BF45ST, BF45DX

PAGE 26

PAGE 28

TEMPERATURE LIMIT SWITCH REPLACEMENT
(UNIT CAN BE REMOVED FROM WALL)

PAGE 30

REMOTE CONTROL KIT REPLACEMENT

PAGE 31

OPERATION

MANUAL CONTROLS (WITHOUT REMOTE OPTION)

The fireplace can be controlled by the manual switches located on the fireplace (FIGURE 1).

Main Power Switch

Main ON/OFF switch, activates the flame effect.

Heater Control Switch

Heater ON/OFF switch, activates heater to the high level.

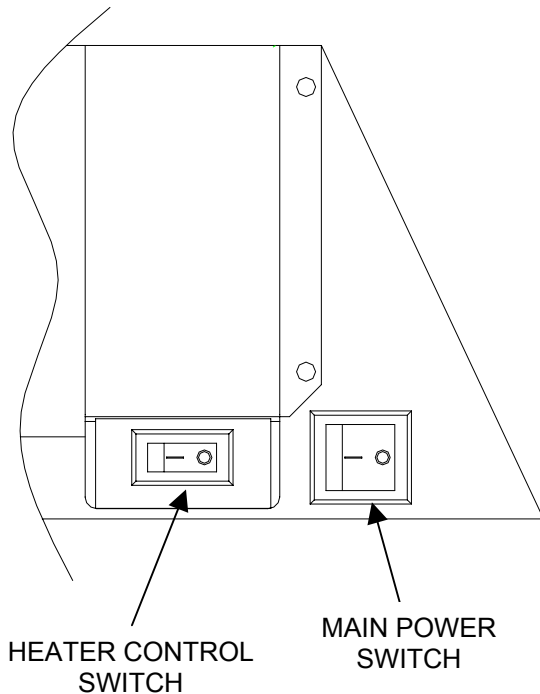


FIGURE 1

MANUAL CONTROLS (WITH REMOTE OPTION)

The fireplace can also be controlled in a similar manner to the remote control with the manual switches located on the fireplace (FIGURE 2). (refer to initialization instructions on page 2)

Main Power Switch

Main ON/OFF switch supplies power to the circuit board. When the Main ON/OFF switch is switched to the ON position the Level 1 indicator light will flash.

On Switch

1. Pressing once on the remote control board "ON SWITCH" activates the Level 1 function.
Level 1: The flame effect is turned on and the first red indicator light is activated.
2. Pressing twice on the remote control board "ON SWITCH" activates the Level 2 function.
Level 2: The flame effect remains on, the heater is activated to the low heat setting, and the first and second red indicator lights are activated.
3. Pressing three times on the remote control board "ON SWITCH" activates the Level 3 function.
Level 3: The flame effect remains on, the heater is set to the high heat setting, and all three red indicator lights are activated.

Off Switch

Pressing this button ONCE will turn the unit OFF.

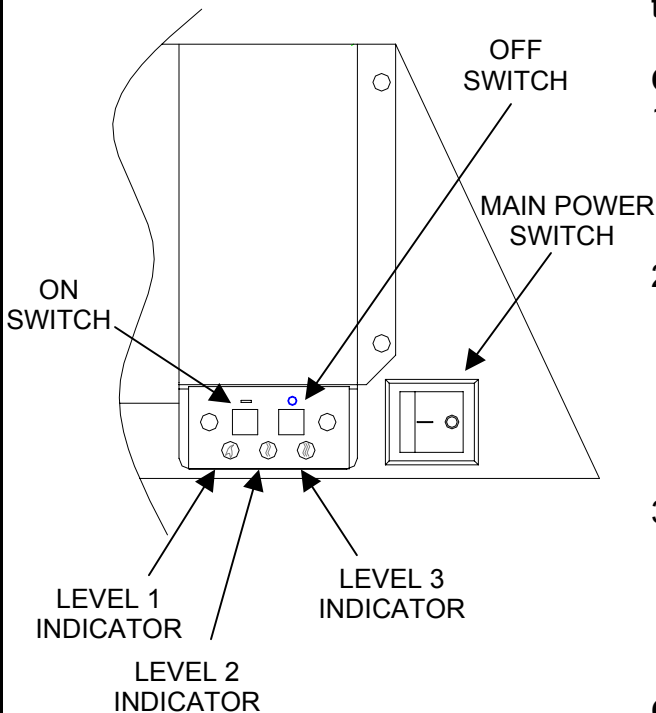


FIGURE 2

REMOTE CONTROL

The remote control has a range of approximately 50ft. (15.25m). It does not have to be pointed at the fireplace and can pass through most obstacles (including walls). It is supplied with one of 243 independent frequencies to prevent interference with other units. The frequency designation is indicated on the back of the transmitter (FIGURE 3).

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. Access the manual controls, (remove glass doors if applicable) pull the right hand steel curtain to the side of the unit. (FIGURE 4)
3. Locate manual controls refer to FIGURE 5.
4. Activate main power switch, (“—” position is “ON”, “○” position is “OFF”) red Level 1 indicator light will flash.
5. Press and hold the ON switch marked “—” for five seconds. The red Level 2 indicator light will flash.
6. Press the ON button located on the remote control transmitter (FIGURE 3). This will synchronize the remote control transmitter and receiver.

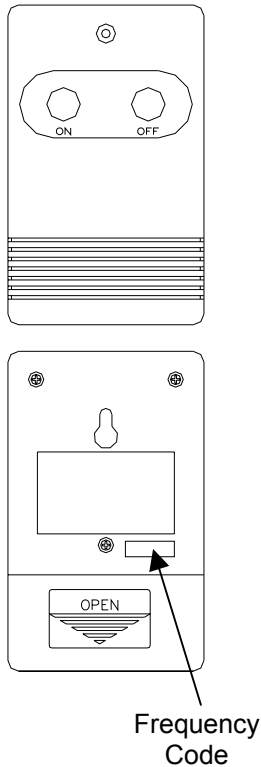


FIGURE 3

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 are 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.

MANUAL CONTROLS

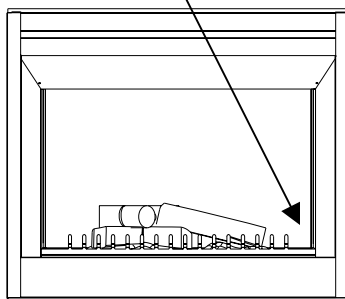


FIGURE 4

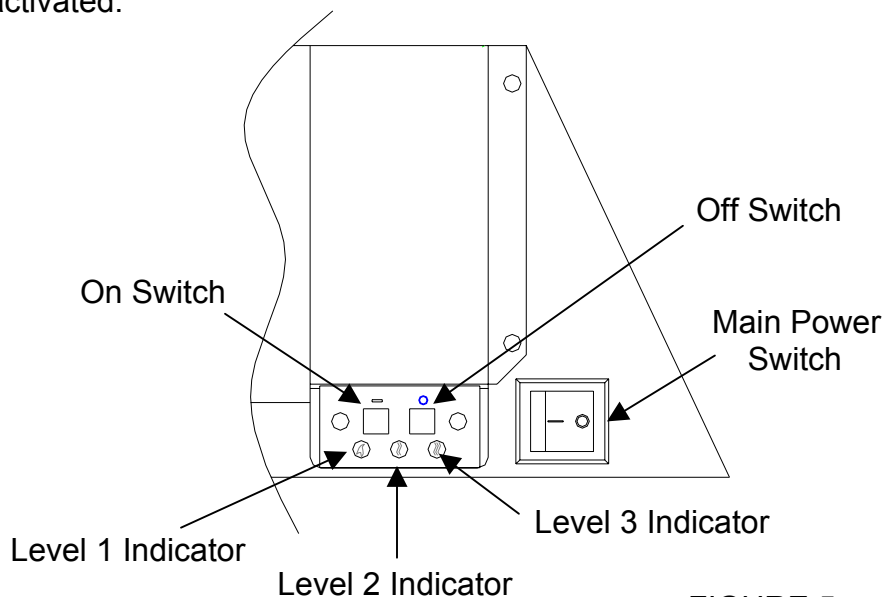


FIGURE 5

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

RESETTING THE TEMPERATURE CUTOUT SWITCH

The heater on this fireplace 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 not come back on without being reset. It can be reset by switching the Main Power switch (FIGURE 1) to OFF and waiting 5 minutes before switching it to ON.

WALL MOUNTED CONTROLS

The fireplace can be installed with wall mounted controls. These controls include wall switches and thermostats. (see installation guide for details)

A. Wall Mounted Switches

This model may be installed such that a wall mounted switch activates the flame effect and a wall mounted heater switch activates the heater. A wall mounted switch can also be installed to operate the heater independent of the flame.

B. Wall Mounted Thermostat

This unit may be installed such that a wall mounted thermostat can adjust the heat 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 in this position to maintain the room temperature at this setting. For additional heat, turn the thermostat clockwise until you hear the click again and the heater will turn on. To turn the heater off, turn the thermostat counter clockwise all the way, and/or turn the manual heater switch on the unit to the OFF position.

VOLTAGE SELECTOR SWITCH LOCATION

IMPORTANT:

Ensure that the incoming power supply voltage matches the setting of the voltage selector switch.

NOTE:

The voltage selector switch is located inside the exhaust panel on the top right hand corner (FIGURE 6).

CAUTION:

When changing the voltage selector switch from 240 volts to 120 volts ensure that the power supply is turned off.

NOTE:

Carefully insert a flat headed screwdriver inside the exhaust panel to change the switch from 240 volts (230 position) to 120 volts (115 position).

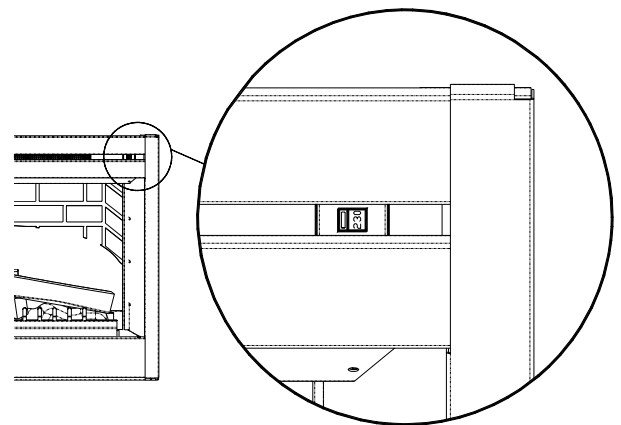
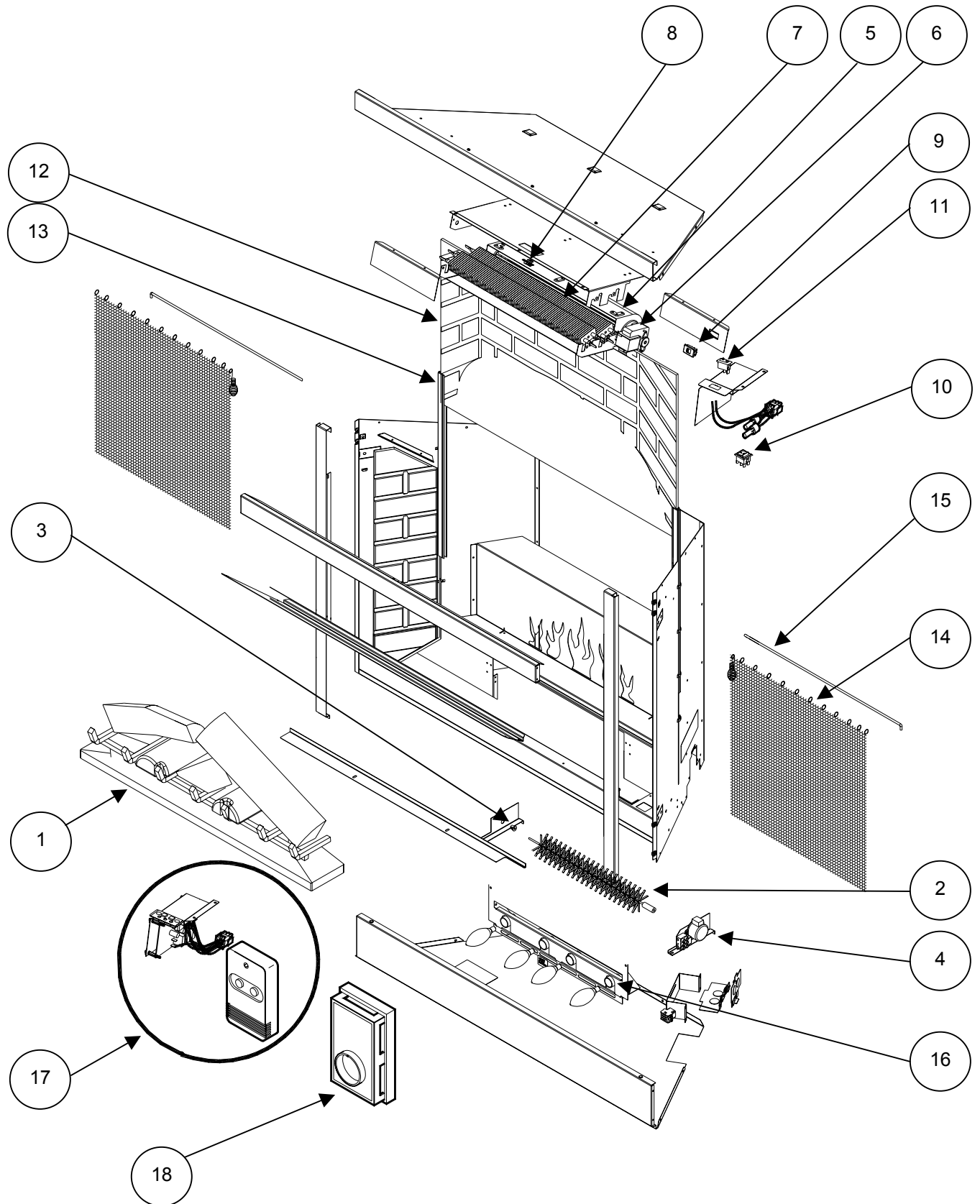


FIGURE 6

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX



REPLACEMENT PARTS

DIMPLEX BUILT IN FIREPLACE

REPLACEMENT PART

	BF33ST	BF33DX
1. LOG SET	0438200300RP	0438200300RP
2. REFLECTOR ROD	5900081000RP	5900081000RP
3. GROMMET	8500000600RP	8500000600RP
4. FLICKER ASSEMBLY	6901811200RP	6901811200RP
5. BLOWER ASSEMBLY	5300110300RP	5300110300RP
6. BLOWER MOTOR	5300110400RP	5300110400RP
7. HEATER ELEMENT	2200510100RP	2200510100RP
8. CUTOUT	2300200400RP	2300200400RP
9. VOLTAGE SELECTOR	2500320100RP	2500320100RP
10. MAIN ON/OFF SWITCH	2800070400RP	2800070400RP
11. HEATER SWITCH	2800070700RP	2800070700RP
12. MIRROR SEMI-SILVERED	5900161000RP	5900161100RP
13. EXTRUSION	0438650200RP	0438650200RP
14. STEEL CURTAIN	8800240403RP	8800240403RP
15. STEEL CURTAIN ROD	8800250300RP	8800250300RP
16. LAMPHOLDER	4200120700RP	4200120700RP

OPTIONAL ACCESSORIES

17. REMOTE CONTROL KIT	BFRC-KIT
18. WALL THERMOSTAT	TS901/TS901W

REPLACEMENT PART

	BF39ST	BF39DX
1. LOG SET	0438550200RP	0438550200RP
2. REFLECTOR ROD	5900080900RP	5900080900RP
3. GROMMET	8500000600RP	8500000600RP
4. FLICKER ASSEMBLY	6901811200RP	6901811200RP
5. BLOWER ASSEMBLY	5300110300RP	5300110300RP
6. BLOWER MOTOR	5300110400RP	5300110400RP
7. HEATER ELEMENT	2200510100RP	2200510100RP
8. CUTOUT	2300200400RP	2300200400RP
9. VOLTAGE SELECTOR	2500320100RP	2500320100RP
10. MAIN ON/OFF SWITCH	2800070400RP	2800070400RP
11. HEATER SWITCH	2800070700RP	2800070700RP
12. MIRROR SEMI-SILVERED	5900160600RP	5900160700RP
13. EXTRUSION	0438650100RP	0438650100RP
14. STEEL CURTAIN	8800240103RP	8800240103RP
15. STEEL CURTAIN ROD	8800250100RP	8800250200RP
16. LAMPHOLDER	4200120700RP	4200120700RP

OPTIONAL ACCESSORIES

17. REMOTE CONTROL KIT	BFRC-KIT
18. WALL THERMOSTAT	TS901/TS901W

BF45ST, BF45DX

REPLACEMENT PARTS

DIMPLEX BUILT IN FIREPLACE

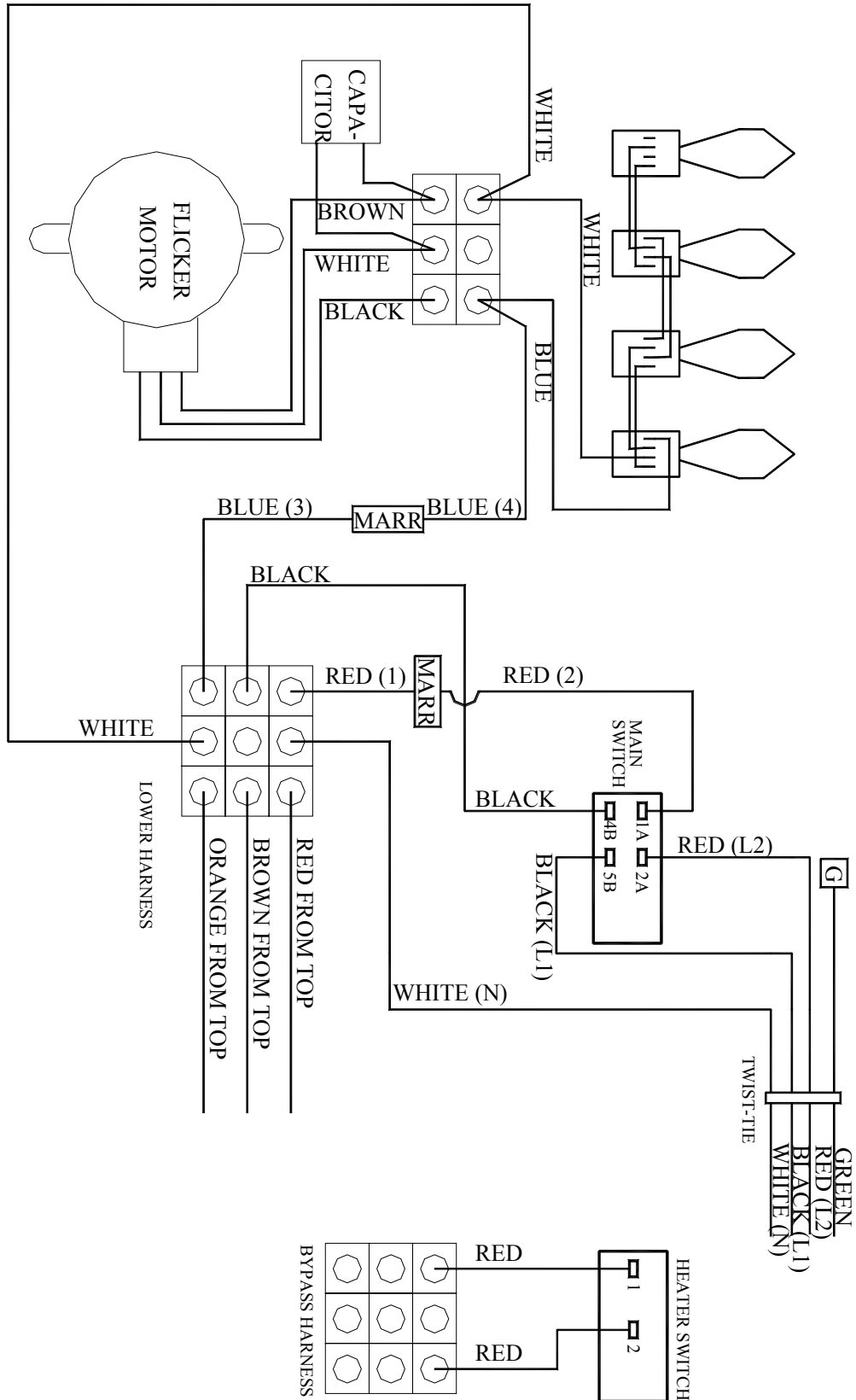
REPLACEMENT PART

	BF45ST	BF45DX
1. LOG SET	0438550200RP	0438550200RP
2. REFLECTOR ROD	5900080900RP	5900080900RP
3. GROMMET	8500000600RP	8500000600RP
4. FLICKER ASSEMBLY	6901811200RP	6901811200RP
5. BLOWER ASSEMBLY	5300110300RP	5300110300RP
6. BLOWER MOTOR	5300110400RP	5300110400RP
7. HEATER ELEMENT	2200510100RP	2200510100RP
8. CUTOUT	2300200400RP	2300200400RP
9. VOLTAGE SELECTOR	2500320100RP	2500320100RP
10. MAIN ON/OFF SWITCH	2800070400RP	2800070400RR
11. HEATER SWITCH	2800070700RP	2800070700RP
12. MIRROR SEMI-SILVERED	5900160800RP	5900160400RP
13. EXTRUSION	0438650100RP	0438650100RP
14. STEEL CURTAIN	8800240203RP	8800240203RP
15. STEEL CURTAIN ROD	8800250200RP	8800250200RP
16. LAMPHOLDER	4200120700RP	4200120700RP

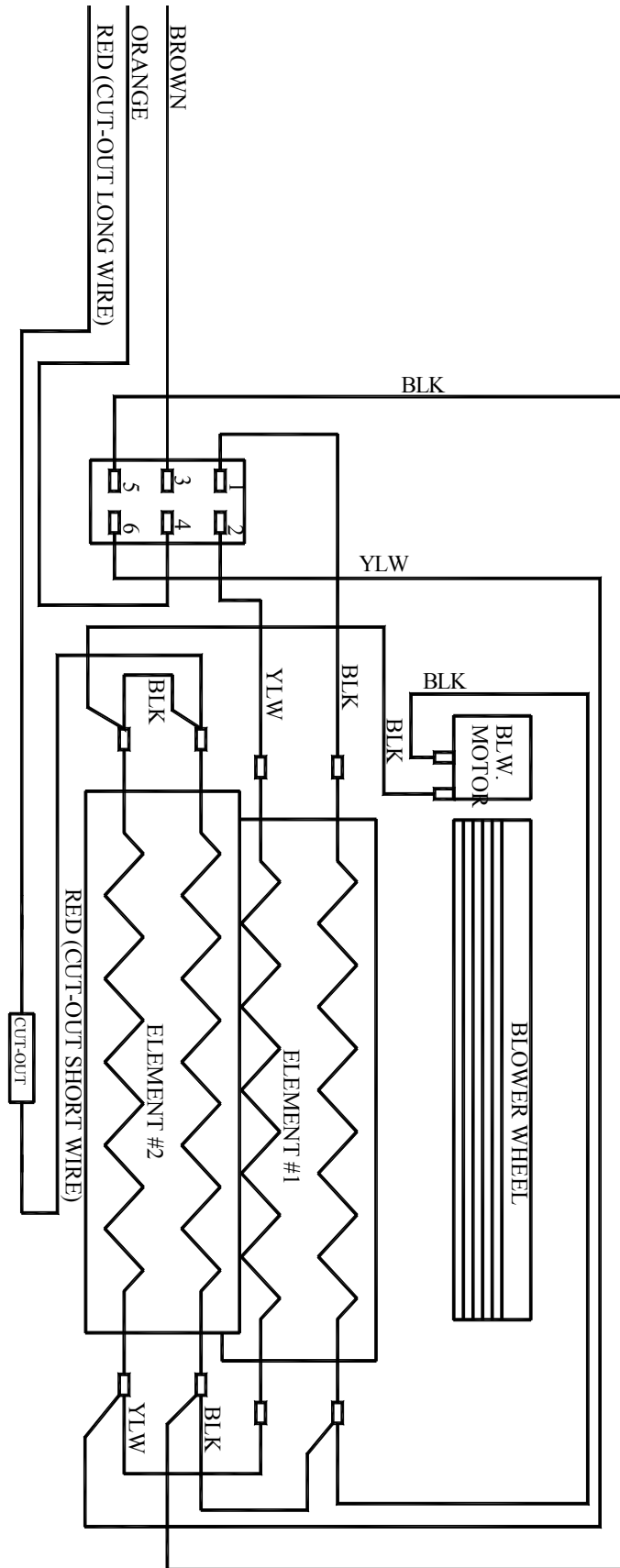
OPTIONAL ACCESSORIES

17. REMOTE CONTROL KIT	BFRC-KIT
18. WALL THERMOSTAT	TS901/TS901W

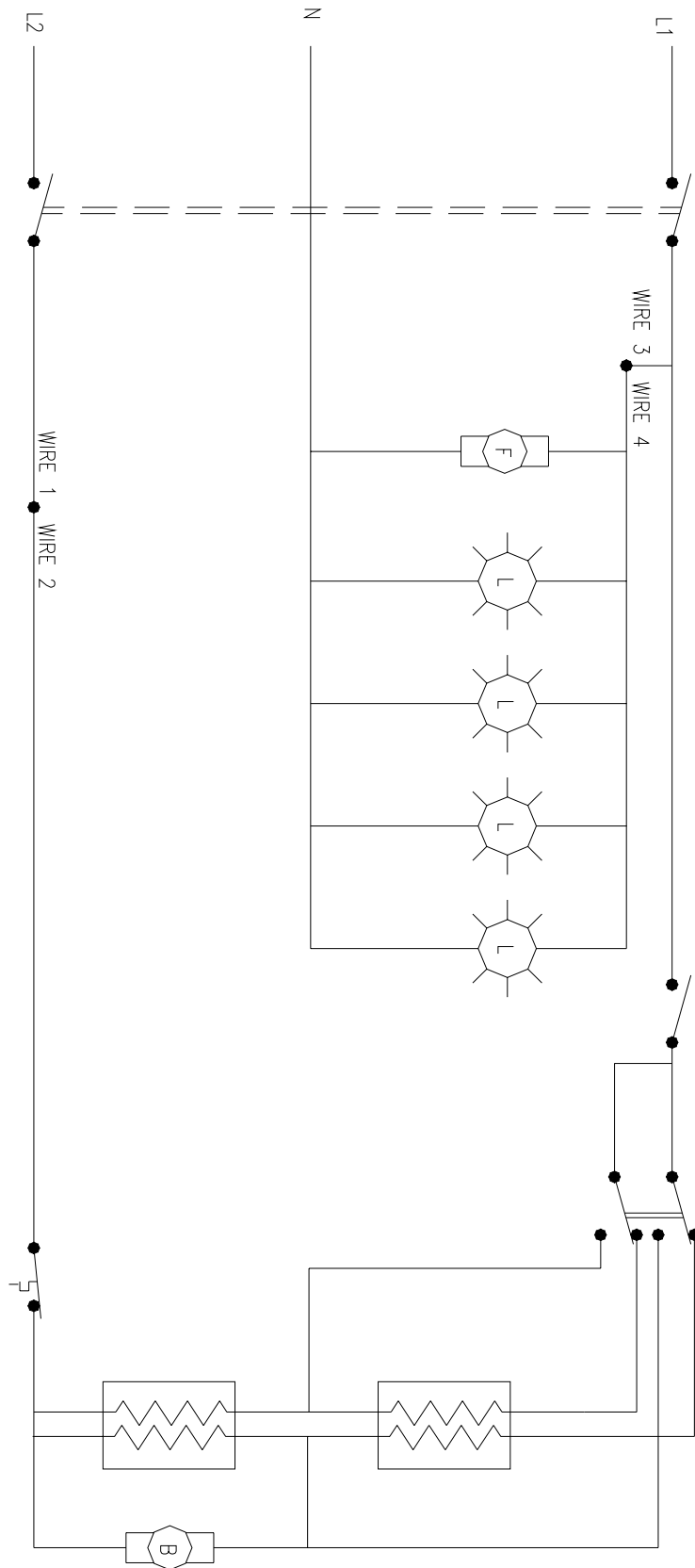
WIRING DIAGRAM - LOWER SECTION



WIRING DIAGRAM - UPPER SECTION



WIRING DIAGRAM - SCHEMATIC



BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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. There are four 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.

TO REPLACE LIGHT BULBS

1. Open the steel curtains (remove glass doors if applicable).
2. Remove the log grate retaining screws and remove the log grate.
3. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
4. Examine to determine which bulbs require replacement.
5. Unscrew bulb counter clockwise.
6. Insert new bulb screwing clockwise.
7. Replace the log set by inserting the front edge, pushing the back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

Quantity 4 clear chandelier or candelabra bulbs with an E-12 (small) socket base, 60 watt rating. Example GE 60BC or Philips 60CTC

CAUTION DO NOT EXCEED 60 WATTS PER BULB

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

TO REPLACE MAIN ON/OFF SWITCH

1. Open the steel curtains (remove glass doors if applicable).
2. Remove the log grate retaining screws and remove the log grate.
3. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
4. Remove the light bulb closest to the main on/off switch for easier access.
5. Locate the switch cover plate and remove the mounting screws.
6. Remove the switch cover plate by releasing assembly from the quick connect connection.
7. Reach hand into the opening and locate the main on/off switch.
8. Depress the retainer clips on the rear of the switch and push the switch out of the bottom cover.
9. Disconnect the wiring connections noting their original locations.
10. Properly orientate the new switch and connect all of the wiring connections.
11. Reassemble in the reverse order as above.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

TO REPLACE HEATER ON/OFF SWITCH (without remote control option)

NOTE: Remote control kit does not have individual heater switch. Refer to page 27 for remote control kit replacement instructions.

1. Open the steel curtains (remove glass doors if applicable).
2. Remove the log grate retaining screws and remove the log grate.
3. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
4. Remove the light bulb closest to the heater on/off switch for easier access.
5. Locate the switch cover plate and remove the mounting screws.
6. Remove the switch cover plate by releasing assembly from the quick connect connection.
7. Depress the retainer clips on the rear of the switch and push the switch out of the bottom cover.
8. Disconnect the wiring connections noting their original locations.
9. Properly orientate the new switch and connect all of the wiring connections.
10. Reassemble in the reverse order as above.

NOTE: To replace the log set, insert the front edge of the log set and pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

TO REPLACE FLAME MOTOR/FLAME ROD

1. Open the steel curtains (remove glass doors if applicable).
2. Remove the log grate retaining screws and remove the log grate.
3. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
4. Remove all lower light bulbs.
5. Remove the retaining screws on the light assembly retaining plate and set aside retaining plate.
6. Reach hand into the opening created by removing the light assembly retaining plate and locate the flame assembly mounting bracket screw.

NOTE:

Flame assembly bracket screw is secured to flame panel on the same side as the manual control switches.

7. Remove the flame assembly mounting bracket screw using a ¼" hex head wrench or socket.
8. Remove the flame rod from the flame assembly by pulling the rubber channel section of the rod away from the flame motor.
9. Rotate the flame assembly down releasing the mounting tab from the rear panel.

NOTE:

In order for the mounting tab to release from the rear panel, the flame assembly mounting bracket needs to be rotated a complete 90° down. Cutting of the wire tie wraps may be required to move wires out of the way.

10. Disconnect the wiring connections noting their original locations.
11. Reassemble in the reverse order as above.

NOTE:

Ensure to secure the flame rod to the end of the flame motor prior to securing flame motor assembly bracket to flame panel.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

TO REPLACE FLAME MOTOR/FLAME ROD

NOTE: To replace the log set, insert the front edge of the log set and pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

WARNING: Ensure wires do not come in contact with moving parts by securing wires in wire wraps.

BF33ST, BF33DX

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.

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

**TO REPLACE VOLTAGE SELECTOR SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.
6. Hold the mirror and use a sharp utility knife to cut the lip off of the rubber channel (one side only) that holds the mirror in place.
7. Remove mirror by pulling it out of the cut rubber channel being careful not to bump or drop it.
8. Remove the cut channel from the firebox.
9. Remove the heater assembly mounting screws from top panel.
10. Locate the voltage selector switch inside the exhaust panel on the top right hand corner, and cut the wire tie wraps securing the voltage selector switch wires.
11. Remove the voltage selector wire connections from the heater elements noting their original locations.
12. Cut and strip the brown and orange wires from the voltage selector switch along the back panel allowing enough room to cut, strip and reconnect wiring.
13. Depress the retainer clips on the rear of the voltage selector switch and push the switch out of the light block.

BF33ST, BF33DX

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.

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

**TO REPLACE VOLTAGE SELECTOR SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

14. Properly orientate the new switch and connect all of the wiring connections to the heater elements.

NOTE: Ensure there is enough wire length to wire connect the wires together.

15. Cut and strip the brown and orange wires from the new voltage selector switch.

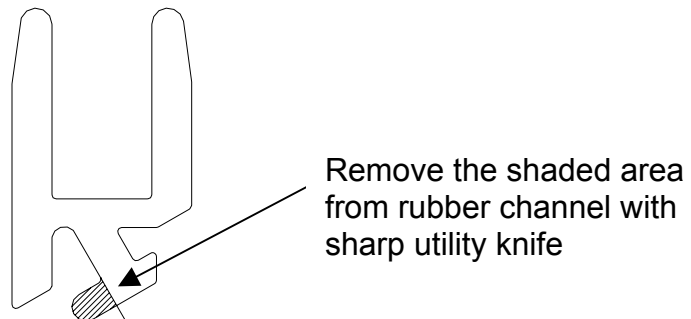
16. Use (2) wire connectors to connect the 4 stripped wire with their matching colour.
(brown wire with brown wire, orange wire with orange wire)

WARNING: Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

17. Using a sharp utility knife, cut 3.22" off of the length of the new rubber channel so the overall length is 17.33".

18. Reassemble in the reverse order as above.

NOTE: Prior to installing the mirror, cut the one end off of the T-shaped groove on the supplied rubber channel with a sharp utility knife as indicated in diagram below.



NOTE: To install the mirror after the factory installed rubber channel has been cut, use the channel that was supplied with the replacement motor / blower. Slide the channel onto the edge of the mirror and push the other side of the mirror into the existing rubber channel in the firebox, carefully press mirror into the mounting slot on the firebox.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE VOLTAGE SELECTOR SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.
6. Locate the voltage selector switch inside the exhaust panel on the top right hand corner, and cut wire the tie wraps securing the voltage selector switch wires.
7. Remove the voltage selector wire connections from the heater elements noting their original locations.
8. Cut and strip the brown and orange wires from the voltage selector switch along the back panel allowing enough room to cut, strip and reconnect wiring.
9. Depress the retainer clips on the rear of the voltage selector switch and push the switch out of the light block.
10. Properly orientate the new switch and connect all of the wiring connections to the heater elements

NOTE: Ensure there is enough wire length to wire connect the wires together.

11. Cut and strip the brown and orange wires from the new voltage selector switch.

BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE VOLTAGE SELECTOR SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

12. Use (2) wire connectors to connect the 4 stripped wires with matching colour.
(brown wire with brown wire, orange wire with orange wire)

WARNING: Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

13. Reassemble in the reverse order as above.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE VOLTAGE SELECTOR SWITCH
(UNIT CAN BE REMOVED FROM WALL)**

1. Remove unit from installed wall. (remove trim surround if applicable)
2. Remove a total of 4 screws from both side trims on unit.
3. Remove the 6 top panel mounting screws and position heater assembly upright being careful not to damage any wires.
4. Locate the voltage selector switch inside the exhaust panel on the top right hand corner, and cut the wire tie wraps securing the voltage selector switch wires.
5. Disconnect voltage selector switch wire connections from heater elements noting their original locations.
6. Cut and strip the brown and orange wires from the voltage selector switch along the back panel allowing enough room to cut, strip, and reconnect wiring.
7. Depress the retainer clips on the rear of the voltage selector switch and push the switch out of the light block.
8. Properly orientate the new switch and connect all of the wiring connections to the heater elements.

NOTE: Ensure there is enough wire length to wire connect the wires together.

9. Cut and strip the brown and orange wires from the new voltage selector switch.
10. Use (2) wire connectors to connect the 4 stripped wires with their matching colour. (brown wire with brown wire, orange wire with orange wire)

WARNING: Ensure wires do not come in contact with moving parts by securing wires in wiring tie wraps.

11. Reassemble in the reverse order as above.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE HEATING ELEMENTS
(UNIT IS PERMANENTLY INSTALLED IN WALL)**

NOTE: The fireplace is equipped with two heating elements. The same removal & installation instructions apply to both elements.

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.
6. Locate the elements mounted to the top cover and disconnect the connections noting their original locations.
7. Remove the 2 element cover hex head screws using a $\frac{3}{8}$ " hex head socket.
8. Remove the 3 remaining element cover mounting screws and remove element.
9. Properly orientate the replacement element and connect all of the wiring connections in their original locations.
10. Reassemble in the reverse order as above.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE HEATING ELEMENTS
(UNIT CAN BE REMOVED FROM WALL)**

NOTE: The fireplace is equipped with two heating elements. The same removal & installation instructions apply to both elements.

1. Remove unit from installed wall. (remove trim surround if applicable)
2. Remove a total of 4 screws from both side trims on unit.
3. Remove top panel mounting screws and position heater assembly upright being careful not to damage any wires.
4. Locate the elements mounted to the top cover and disconnect the connections noting their original locations.
5. Remove the 2 element cover hex head screws using a $\frac{3}{8}$ " hex head socket.
6. Remove the 3 remaining element cover mounting screws and remove element.
7. Properly orientate the replacement element and connect all of the wiring connections in their original locations.
8. Reassemble in the reverse order as above.

BF33ST, BF33DX

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.

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

**TO REPLACE BLOWER MOTOR / BLOWER
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.

NOTE: A new rubber channel that holds the mirror in place is supplied with the new blower motor.

6. Hold the mirror and use a sharp utility knife to cut the lip off of the rubber channel (one side only) that holds the mirror in place.
7. Remove mirror by pulling it out of the cut rubber channel being careful not to bump or drop it.
8. Remove the cut channel from the firebox.
9. Remove the (3) heater assembly mounting screws from top panel.
10. Lower heater assembly and remove wiring connections from blower motor noting their original locations.
11. Remove the (6) blower motor assembly screws and set aside blower motor assembly.
12. Properly orientate the replacement blower assembly and connect all of the wiring connections in their original locations.
13. Using a sharp utility knife, cut 3.22" off of the length of the rubber channel so the overall length is 17.33".

BF33ST, BF33DX

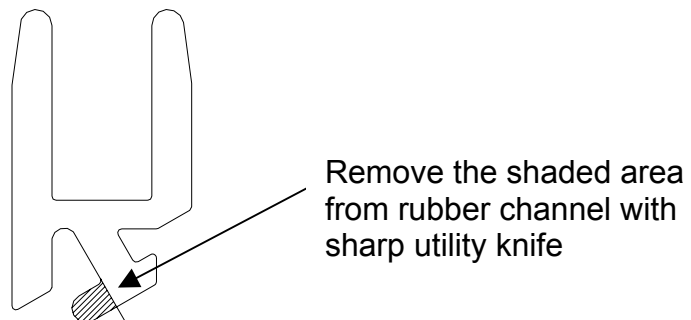
If the fireplace was operating prior to servicing allow at least 10 minutes for light bulbs and heating elements to cool off to avoid accidental burning of skin.

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

**TO REPLACE BLOWER MOTOR / BLOWER
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

14. Reassemble in the reverse order as above.

NOTE: Prior to installing the mirror, cut the one end off of the T-shaped groove on the supplied rubber channel with a sharp utility knife as indicated in diagram below.



NOTE: To install the mirror after the factory installed rubber channel has been cut, use the channel that was supplied with the replacement motor / blower. Slide the channel onto the edge of the mirror and push the other side of the mirror into the existing rubber channel in the firebox, carefully press mirror into the mounting slot on the firebox.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE BLOWER MOTOR / BLOWER
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.
6. Remove the (3) heater assembly mounting screws from top panel.
7. Lower heater assembly and remove wiring connections from blower motor noting their original locations.
8. Remove the (6) blower motor assembly screws and set aside blower motor assembly.
9. Properly orientate the replacement blower assembly and connect all of the wiring connections in their original locations.
10. Reassemble in the reverse order as above.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE BLOWER MOTOR / BLOWER
(UNIT CAN BE REMOVED FROM WALL)**

1. Remove unit from installed wall. (remove trim surround if applicable)
2. Locate and remove both side trims from unit.
3. Remove top panel mounting screws and position heater assembly upright being careful not to damage any wires.
4. Remove the (3) heater assembly mounting screws from top panel.
5. Remove the (6) blower motor assembly screws and set aside blower motor assembly.
6. Properly orientate the replacement blower assembly and connect all of the wiring connections in their original locations.
7. Reassemble in the reverse order as above.

BF33ST, BF33DX

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.

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

**TO REPLACE TEMPERATURE LIMIT SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.
6. Hold the mirror and use a sharp utility knife to cut the lip off of the rubber channel (one side only) that holds the mirror in place.
7. Remove mirror by pulling it out of the cut rubber channel being careful not to bump or drop it.
8. Remove the cut channel from the firebox.
9. Remove the (3) heater assembly mounting screws from the top panel and lower heater assembly.
10. Remove the temperature limit switch screw from heater bracket assembly and disconnect the (1) temperature limit switch wire from the heater element.
11. Cut and strip the (1) other remaining temperature limit switch wire end with wire cutters closest to blower motor allowing enough room to cut, strip and reconnect wiring.
12. Properly orientate the new temperature limit switch and secure to heater bracket assembly.
13. Connect the (1) wire connection to the heating element.

BF33ST, BF33DX

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.

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

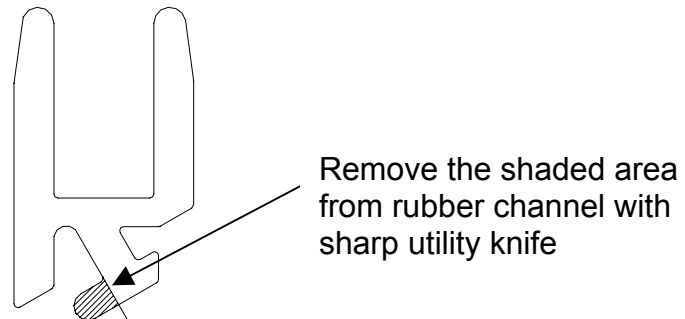
**TO REPLACE TEMPERATURE LIMIT SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

14. Cut and strip the remaining temperature limit switch wire and wire connect, with wire connector, to the other stripped cutout wire.

15. Reassemble in the reverse order as above.

WARNING: Ensure wires do not come in contact with moving parts by securing wires in tie wraps.

NOTE: Prior to installing the mirror, cut the one end off of the T-shaped groove on the rubber channel with a sharp utility knife as indicated in diagram below.



NOTE: To install the mirror after the factory installed rubber channel has been cut, use the channel that was supplied with the replacement motor / blower. Slide the channel onto the edge of the mirror and push the other side of the mirror into the existing rubber channel in the firebox, carefully press mirror into the mounting slot on the firebox.

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE TEMPERATURE LIMIT SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

1. Remove the log grate retaining screws and remove the log grate.
2. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
3. Release the steel curtains from the side panels by opening the retainers on the sides of the fireplace using needle nose pliers.
4. Remove the steel curtains by lifting up on the curtain mounting rod releasing it from the side mounting tab, and pulling out.
5. Remove the heater cover mounting screws from inside the firebox and remove the heater cover by lifting it up from the back, bowing it slightly in the center and pulling out by one end.
6. Remove the (3) heater assembly mounting screws from the top panel and lower heater assembly.
7. Remove temperature limit switch screw from heater bracket assembly and disconnect the (1) temperature limit switch wire from heater element.
8. Cut and strip the (1) other temperature limit switch wire end with wire cutters closest to blower motor allowing enough room to cut, strip and reconnect wiring.
9. Properly orientate the new temperature limit switch and secure to heater bracket assembly.
10. Connect the (1) wire connection to the heating element.
11. Cut and strip the remaining temperature limit switch wire and wire connect, with wire connector, to the other stripped cutout wire.
12. Reassemble in the reverse order as above.

NOTE: To reconnect temperature limit switch, cut and strip the long end of the cutout wire, and wire connect to existing cutout wire closest to blower motor.

WARNING: Ensure wires do not come in contact with moving parts by securing wires in tie wraps.

BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE TEMPERATURE LIMIT SWITCH
(UNIT IS PERMENANTLY INSTALLED IN WALL)**

NOTE: To replace the log set insert the front edge, pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

**TO REPLACE TEMPERATURE LIMIT SWITCH
(UNIT CAN BE REMOVED FROM WALL)**

1. Remove unit from installed wall. (remove trim surround if applicable)
2. Locate and remove both side trims from unit.
3. Remove top panel mounting screws and position heater assembly upright being careful not to damage any wires.
4. Remove the heater assembly mounting screws from top panel.
5. Remove temperature limit switch screw from heater bracket assembly and disconnect the (1) temperature limit switch wire from heater element.
6. Cut and strip the (1) other temperature limit switch wire end with wire cutters closest to blower motor allowing enough room to cut, strip and reconnect wiring.
7. Properly orientate the new temperature limit switch and secure to heater bracket assembly.
8. Connect the (1) wire connection to the heating element.
9. Cut and strip the remaining temperature limit switch wire and wire connect, with wire connector, to the other stripped cutout wire.
10. Reassemble in the reverse order as above.

NOTE: To reconnect temperature limit switch, cut and strip the long end of the cutout wire, and wire connect to existing cutout wire closest to blower motor.

WARNING: Ensure wires do not come in contact with moving parts by securing wires in tie wraps.

BF33ST, BF33DX, BF39ST, BF39DX, BF45ST, BF45DX

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.

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

TO REPLACE REMOTE CONTROL KIT

1. Open the steel curtains (remove glass doors if applicable).
2. Remove the log grate retaining screws and remove the log grate.
3. Pull the rear edge of the log set forward by grasping the ember bed by the sides (handle the log set only by the ember bed and not the logs) and pulling firmly until the rear tab pops out from under the back ledge, then lift out.
4. Locate the circuit board cover plate and remove the mounting screws.
5. Remove the circuit board cover plate by releasing assembly from the quick connect connection.
6. Replace circuit board assembly kit.
7. Reassemble in the reverse order as above.

NOTE: To replace the log set, insert the front edge of the log set and pushing back down until the rear tab snaps under the back ledge and the logs are resting against the mirror.