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

! NOTE: Procedures and techniques that are considered important enough to emphasize.

⚠️ 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

Figure 1

I NOTE: When the engine is used in an environment where background noise is very low, it may be possible to hear a sound which is related to the operation of the flame effect. This is normal and should not be a cause for concern.

I NOTE: Always ensure that the appliance is fixed to the wall in a level position.

The manual controls for the wall mount engine are located on the bottom of the unit. (Figure 1)

A. On/Off Switch
Supplies power to the engine.

B. Thermostat Control
To adjust the temperature to your individual requirements, turn the thermostat control backwards all the way to turn on the heater. When the room reaches the desired temperature, turn the thermostat knob forward 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.

C. Mode Selector Switch
Press once to turn on the flame effect. This will be indicated by an audible "beep". Although the lights turn on immediately it will take 30 seconds before the flame effect starts.  
• Press again to give flame effect and full heat. This will be indicated by two "beeps".
• Press again to return to flame effect only. This will be indicated by one "beep".
• Press to put fire in to standby mode. This will be indicated by one "beep".

D. Flame Intensity Control
Adjusts the intensity of the flame and smoke effect when the heater has been activated.
Turning the control knob towards you decreases the intensity of the flame and smoke effect. Turning the control knob away from you will increase the flame and smoke effect.

I NOTE: Give the flame generator some time to react to changes you may make on the flame control knob.
I NOTE: When the water tank is empty the unit will turn off after 30 seconds. See instructions under Maintenance Section for refilling tank. When this procedure is complete, the main lamps will illuminate but it will take 30 seconds before the flames return.

Resetting the Temperature Cutoff Switch
Should the heater overheat, an automatic cut out will turn the fireplace off and it will not come back on without being reset. It can be reset by switching the On/Off Switch to Off and waiting 10 minutes before switching the unit back on.

CAUTION: If you need to continuously reset the heater, unplug the unit and call Dimplex North America Limited at 1-888-346-7539 for technical support. Please have your model and serial number ready when calling.

Remote Control
The On/Off Switch must be in the ‘ON’ (I) position in order for the remote control to operate. There are 3 buttons on the remote control. (Figure 2)

I NOTE: To operate correctly the remote control must be pointed towards the heater outlet.

The remote control functions are as follows:

• Press once to turn on Flame effect only. This will be indicated by one beep.
• Press once to turn on Full heat and Flame effect. This will be indicated by two beeps.
• Standby - This will be indicated by one beep.

I NOTE: Once the mist has been activated, the unit will have to be turned Off, using either the momentary button, on the unit, or the Off button on the remote control, then back on to return to Level 1 - Logs and Light only operation.

Battery Replacement
To replace the battery:
1. Slide battery cover open on the remote control (Figure 2).
2. Install two 1.5 Volt (AAA) battery in the battery holder.
3. Close the battery cover.

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

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

Filling the water tank
When the water tank is empty, the flame effect shuts off and you will hear 2 audible beeps, follow these steps.

CAUTION: Allow at least five minutes for components to cool before disassembling the unit to refill.

1. Turn the On/Off switch to the off position (0) (Figure 1)
2. Gently remove the log media and place them carefully on the ground.
3. Remove the refill container by lifting upwards and outwards.
4. Refill the container with tap water.

NOTE: Normal tap water can be used in the Optimyst® as long as the tap water is not considered to be hard water. In the event your tap water is hard, you may use softened water or distilled water with 1/8 tsp of salt (0.5 mL) added to the water reservoir. (The addition of additional salt should only be when you notice that the unit is not producing mist as expected.)

5. Screw the cap back on, **do not overtighten**.
6. Return the refill container to the sump, with the tank cap facing down and the flat side of the tank facing outward.
7. Gently place the log media back into position.
8. Turn the On/Off switch to the off position (I). (Figure 1)

If you do not intend on using the unit for longer than 2 weeks, empty and drain the unit of water, and dry all of the water containing components.

Replacing the Light bulbs
If a large amount of the smoke appears grey or colourless it may be that one or more of the light bulbs have burnt out.

CAUTION: Allow at least twenty minutes for light bulbs to cool before touching bulbs to avoid accidental burning of skin.

1. Leaving the flame effect on, remove the rock media, tray and water tank and lift out the top cover (Figure 3).
2. View the lamps from a distance in front of the fire and observe which lamp needs to be changed.
3. Turn the unit off, and unplug the engine.
4. Leave the appliance for 20 minutes to allow the lamps to cool down before removing them.
5. Remove the water tank and sump (Figure 4) by lifting upwards and placing to the side.
6. Remove the defective bulb, by gently lifting vertically and disengaging the pins from the lamp holder.

NOTE: Replacement light bulbs can be obtained by contacting Dimplex Customer Service at 1-888-346-7539.

7. Carefully insert the two pins of the new bulb into the two holes in the lamp holder. Push lamp firmly in place.
8. Replace the top cover, refill container and log media.

Cleaning

It is recommended that all of the components that contain water are cleaned with soap and water on a biweekly basis. A small brush has been included to assist in cleaning difficult items/areas, i.e. the transducer.

CAUTION: Do not put plastic components in the dishwasher.

Filter Cleaning
The air filter can be removed and gently rinsed with water to clean and dried on a towel before reinstalling.

NOTE: Replace the filter so that the course black filter is facing the front of the engine.

Surface Cleaning
Use a warm damp cloth only to clean surfaces of the engine. Do not use abrasive cleaners.

NOTE: If you need to move the unit ensure that all of the components that contain water have been emptied before relocating.
Exploded Parts Diagram

Replacement Parts

1. Remote Control ........................................ 9600385600RP
2. Remote Control Receiver ............................ 9600580100RP
3. Log Media Assembly
   BOF40XX .............................................. 9600720100RP
   BOF60XX .............................................. 9600730100RP
4. Heating Assembly (with cutout) ................... 9600680100RP
5. Light Holder Assembly ............................... 9600610100RP
6. Removable Refill Container with Cap ............ 0441440100RP
7. Cap for Refill Container ............................ 0441440300RP
8. Top Cover Assembly ................................. 9600670100RP
9. Water Reservoir (Sump) ............................. 0441380100RP
10. Fan Assembly ......................................... 5300300100RP
11. Fan Housing Assembly .............................. 9600540100RP
12. Fan Filter ............................................ 8600300100RP
13. Transducer ........................................... 3800040100RP
14. On/Off Switch ....................................... 9600383500RP
15. 3-Position Switch .................................... 9600383600RP
16. Transformers ......................................... 9600690100RP
17. Potentiometer ........................................ 9600640100RP
18. Thermostat Assembly ............................... 9600620100RP
19. Control Knob ........................................ 9600630200RP
20. Power Board .......................................... 9600590100RP
21. IR Receiver with Lens .............................. 9600630200RP
22. Light Bulbs ........................................... RB400
23. Plug Kit ............................................. BOF-PLUGKIT
Remote Control Receiver Replacement

Tools Required: Philips head screwdriver
Flat Head Screwdriver

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

⚠️ NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.
2. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.
3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)
4. Remove the 4 screws around the remote control receiver attaching it to the unit.
5. Transfer the wire connectors from the terminals on the original board to the same location on the replacement board.

⚠️ NOTE: Use a flat head screwdriver to gently pry between the end of the connector and the remote control receiver to release the wires.
6. Re-assemble the remainder of the cassette in reverse order from the instructions above.

Power Board Replacement

Tools Required: Philips head screwdriver
Flat Head Screwdriver

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

⚠️ NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.
2. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.
3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)
4. Remove the 4 screws around the remote control receiver attaching it to the unit.
5. Transfer the wire connectors from the terminals on the original board to the same location on the replacement board.

⚠️ NOTE: Use a flat head screwdriver to gently pry between the end of the connector and the remote control receiver to release the wires.
6. Re-assemble the remainder of the cassette in reverse order from the instructions above.

Transformer Replacement

Tools Required: Philips head screwdriver
Flat Head Screwdriver

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

⚠️ NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.
2. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.
3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)
4. Remove the 4 screws around the power board attaching it to the unit.
5. Transfer the wire connectors from the terminals on the original board to the same location on the replacement board.

⚠️ NOTE: Use a flat head screwdriver to gently pry between the end of the connector and the remote control receiver to release the wires.
6. Re-assemble the remainder of the cassette in reverse order from the instructions above.

Switch Replacement

Tools Required: Philips head screwdriver
Flat Head Screwdriver

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

⚠️ NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.
2. Remove the 2 screws that secure the engine assembly
to the unit, located under the sump.

3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)

4. Locate the defective switch and disconnect the wiring connections noting their original locations.

   ! NOTE: A flat head screwdriver can be used to gently pry between the end of the connector and the switch to release the wires.

5. Depress the retainer clips on the rear of the switch and push the switch out through the opening.

6. Properly orient and insert the new switch and connect all of the wiring.

7. Re-assemble the remainder of the cassette in reverse order from the instructions above.

**Thermostat Replacement**

**Tools Required:** Philips head screwdriver
Flat Head Screwdriver

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

   ! NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.

2. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.

3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)

4. Remove the knob off of the thermostat, by gently lifting the bottom forward and pulling down.

5. Depress the retainer clips on either side of the thermostat to slide it out of the assembly.

6. Disconnect the wiring connections noting their original locations.

   ! NOTE: A flat head screwdriver can be used to gently pry between the end of the connector and the switch to release the wires.

7. Install the knob onto the new thermostat and slide the thermostat back into the assembly ensuring that it has “clicked” into place.

8. Re-assemble the remainder of the cassette in reverse order from the instructions above.

**Potentiometer Replacement**

**Tools Required:** Philips head screwdriver
Flat Head Screwdriver
3/8” (10mm) Wrench

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

   ! NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.

2. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.

3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)

4. Turn the unit so that the underside of the potentiometer can be seen.

5. Loosen the securing nut, to allow the potentiometers slide out.

6. Disconnect the wiring connections noting their original locations.

   ! NOTE: A flat head screwdriver can be used to gently pry between the end of the connector and the switch to release the wires.

7. Slide the potentiometer back into the assembly and tighten the securing nut.

8. Re-assemble the remainder of the cassette in reverse order from the instructions above.

**Power Cord / Receptacle Replacement**

**Tools Required:** Philips head screwdriver
Flat head screwdriver

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

   ! NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.

2. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.

3. Remove the 4 screws that secure the front grill to the cassette housing. (Figure 5)

4. Locate the cord and disconnect the wiring connections noting their original locations.

   ! NOTE: A flat head screwdriver can be used to gently pry between the end of the connector and the switch to release the wires.

5. With needle nose pliers, grasp the cord strain relief grommet from inside the back of the bottom panel and push while twisting to remove.
6. Install the new cord.
7. Reassemble in the reverse order as above.

**Light Assembly Replacement**

**Tools Required:** Philips head screwdriver
Flat Head Screwdriver

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

⚠️ **NOTE:** Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.
2. Disassemble the sump components. (Figure 3)
3. With the unit turned upside down, remove the 2 screws that hold the light assembly to the unit. (Figure 6)
4. Remove the light assembly and replace with the new light assembly.
5. Reattach the wire onto the new light assembly.
6. Re-assemble the remainder of the cassette in reverse order from the instructions above.

**Fan Motor and Fan Housing Replacement**

**Tools Required:** Philips head screwdriver
Flat Head Screwdriver

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

⚠️ **NOTE:** Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Disconnect and remove the media from the unit and put them in a safe place.
2. Disassemble the sump components. (Figure 3)
3. Remove the 2 screws that secure the engine assembly to the unit, located under the sump.
4. Remove the 3 screws that hold the cover onto the fan housing. (Figure 7)
5. Remove the fan motor out of the housing and disconnect the wiring connection located near the bottom of the housing.
6. If replacing only the motor, attach new motor and reassemble the remainder of the cassette in reverse order from the instructions above.
   • If replacing the housing, remove the 3 screws attaching the base to the cassette. (Figure 7)
7. Attach new fan housing base to the cassette.
8. Transfer the filter from the old housing to the new housing.
9. Reinstall the fan motor and reconnect the wire.
10. Re-assemble the remainder of the cassette in reverse...
Heater Assembly Replacement

Tools Required: Philips head screwdriver

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

⚠️ NOTE: Ensure that all of the components that contain water have been emptied before performing any maintenance.

1. Remove the 10 screws that attach the heater assembly to the support plate (Figure 8).
2. Remove the 4 screws securing the heater support plate to the unit (Figure 8).
3. Gently drop the support plate and heating assembly down to access the heating assembly and wire connections, being careful not to strain any of the connections.
4. Disconnect the wiring connections noting their original locations.
5. Install the new heater assembly to the support plate.
6. Reattach the wire connections.
7. Reinstall the heater assembly and support plate.
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<td>Circuit breaker trips or fuse blows when unit is turned on</td>
<td>Short in unit wiring.</td>
<td>Trace wiring in unit.</td>
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<td></td>
<td>Improper circuit current rating</td>
<td>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.</td>
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<tr>
<td>Lights dim in room while the unit is on</td>
<td>Unit is drawing close to circuit current rating</td>
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<td>Normal Operation</td>
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<td></td>
<td>Defective power cord</td>
<td>Replace power cord if cord gets hot to the touch.</td>
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<tr>
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<td>Dirty or stale water.</td>
<td>Clean the unit as described under maintenance.</td>
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<td>Replace Remote Control</td>
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<td>Defective remote control receiver</td>
<td>Replace remote control receiver</td>
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<td></td>
<td>Defective IR sensor</td>
<td>Replace IR sensor</td>
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<tr>
<td>The flame effect will not start</td>
<td>Switch A is in the ‘ON’ (I) position, but mode Switch B has not been pressed. (Figure 2)</td>
<td>Press Switch B once for flame effect. (Figure 2)</td>
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<td>Low water level.</td>
<td>Check the water tank is full and there is water in the sump.</td>
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<td>Water in unit is too cold</td>
<td>Allow water to warm to room temperature.</td>
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<td>If using distilled or reverse osmosis water, unit will not produce a consistent mist</td>
<td>Add 1/8 tsp of table salt to water reservoir to introduce electrolytes, only repeat when mist is not being produced correctly</td>
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<td></td>
<td>Check that the fan is operating correctly</td>
<td>Replace fan assembly</td>
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<td></td>
<td>Cord is located over emitter on transducer</td>
<td>Relocate cord so that mist is free to rise off of transducer.</td>
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<td></td>
<td>Defective Transducer</td>
<td>Replace Transducer</td>
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<tr>
<td>The flame effect is too low.</td>
<td>Flame effect control knob is set too low. (Figure 2)</td>
<td>Increase level of flame by turning Control knob C to the left slowly. (Figure 2)</td>
</tr>
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<td>The flame effect has too much smoke.</td>
<td>Flame effect setting is too high.</td>
<td>Turn the flame effect Control knob “C” to the right until it is at minimum and slowly turn to the left, about ¼ a turn, at a time. Give the flame generator some time to adjust before increasing. (Figure 2)</td>
</tr>
<tr>
<td>Mist is not coming out and the red light by the transducer is not on</td>
<td>The cord from the power board is not working</td>
<td>Ensure that the cord is not pinched. Ensure that the cord is fully inserted into the connection on the power board.</td>
</tr>
<tr>
<td>Mist is coming out fast</td>
<td>Filter is missing off of Fan Housing</td>
<td>Replace Fan Filter</td>
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<td>Mist does not appear to be coming out evenly</td>
<td>Unit is not level</td>
<td>Level unit</td>
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<td>Media is blocking air flow</td>
<td>Rearrange media</td>
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<td></td>
<td>Defective 3 position switch</td>
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<tr>
<td>Heater is turning off after a couple of minutes of operation</td>
<td>Build up of dirt/dust in heater assembly</td>
<td>Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.</td>
</tr>
<tr>
<td></td>
<td>Defective Heater Assembly</td>
<td>Replace Heater Assembly</td>
</tr>
<tr>
<td>Heater emits an odor</td>
<td>Normal Operation</td>
<td>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.</td>
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<td>Heater fan turns on but heater lacks heat</td>
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<td>Heating element is glowing red</td>
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<td>Loose wiring</td>
<td>Trace wiring in unit</td>
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<td>Excessive noise with the heater on</td>
<td>Dirty heater assembly</td>
<td>Ensure that exterior intake louvers and firebox cavity are free of dirt/dust.</td>
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<td></td>
<td>Defective heater assembly</td>
<td>Replace heater assembly</td>
</tr>
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</table>