

# Service Manual

#### **Models**

North America

ASP30-AM QST30-AM

ASP36-AM QST36-AM

ASP42-AM QST42-AM

ASP48-AM QST48-AM

Europe

ASP30-EU

ASP36-EU

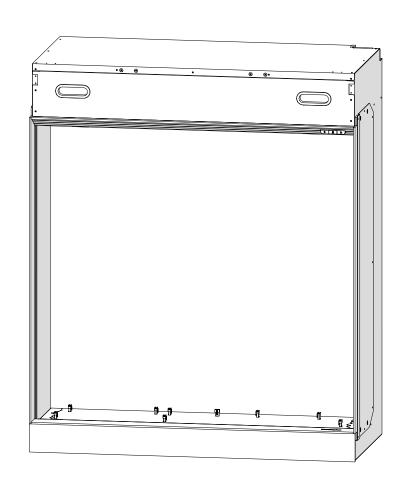
ASP42-EU

Australia

ASP30-AU

ASP36-AU

ASP42-AU



#### **IMPORTANT SAFETY INFORMATION:**

Read this manual first before attempting to install or use this electric fireplace. Always comply with the warnings and safety instructions contained in this manual to prevent personal injury or property damage.

#### Conventions used in this manual:

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

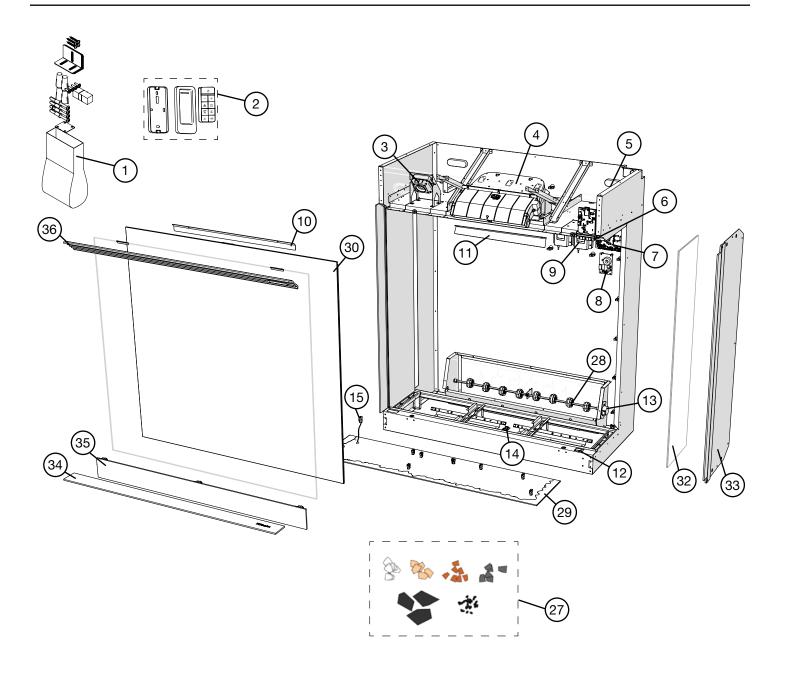
**A** CAUTION: Procedures and techniques which, if not carefully followed, will result in damage to the equipment.

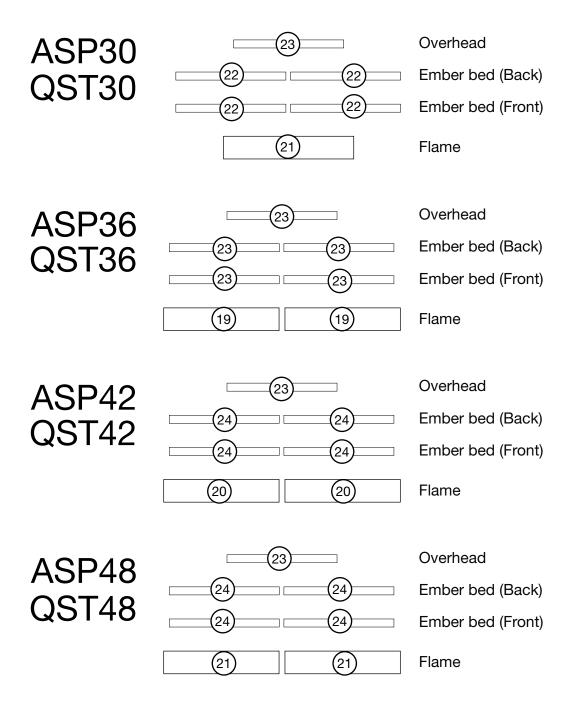
**WARNING:** Procedures and techniques which, if not carefully followed, will expose the user to the risk of fire, serious injury, or death.

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# Exploded Parts Diagram



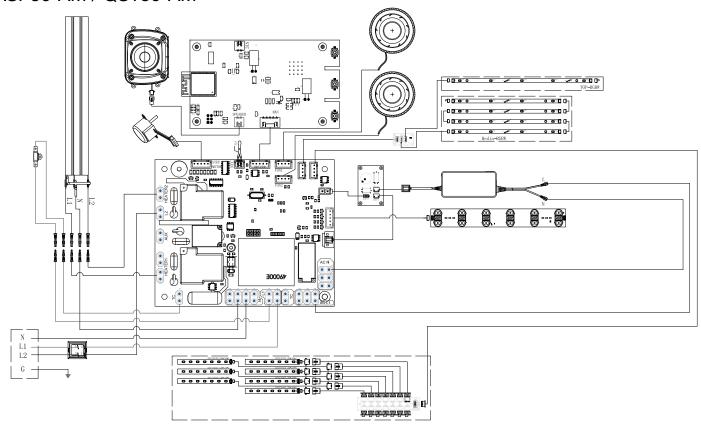


# **Replacement Parts List**

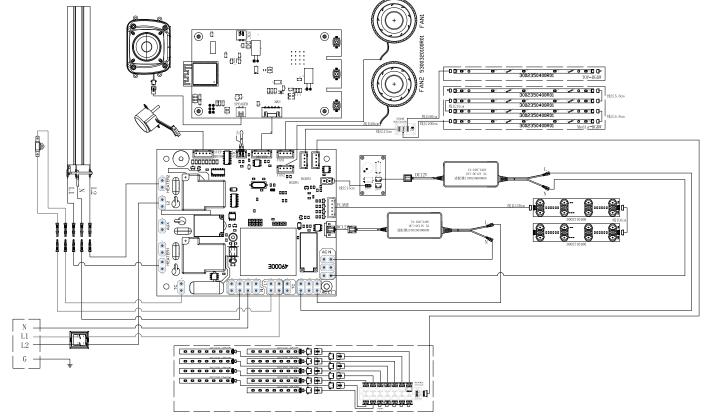
1.	Hardware kit500003776	20	. Ember bed
2.	Remote control	23.	ASP30-AM/ QST30-AM500003387
3.	Speaker		ASP36-AM/ QST36-AM
			ASP42-AM/ QST42-AM
4. -	Heater Assembly		ASP48-AM/ QST48-AM
5.	Temperature sensor	30	Reflective glass
6.	On-board controls ASP30-AM	00.	ASP30-AM500003375
	ASP36-AM500003386 ASP36-AM500004532		ASP36-AM500003376
	ASP42-AM		ASP42-AM500003377
	ASP48-AM		ASP48-AM500003378
	QST30-AM		QST30-AM500005354
	QST36-AM		QST36-AM500005355
	QST42-AM		QST42-AM500005356
	QST48-AM		QST48-AM500005357
7.	Main control board500003385	31.	Front glass
8.	Power board		ASP30-AM500003226
9.	Power supply 5 A		ASP36-AM500003227
	Mirrored glass bracket500003778		ASP42-AM500003184
	Light shield		ASP48-AM500003228
	Power switch		QST30-AM500005339
			QST36-AM500005350
	Flicker motor		QST42-AM
	Log expansion board 500003782		QST48-AM500005352
	N/A	32.	Side glass
	N/A		ASP30-AM
	Power cord		ASP36-AM
	Heater jumper X-4300520100RP		ASP42-AM
	4-segment flame LED		ASP46-AM 500005374 All QST models 500005353
	5-segment flame LED 500003393	22	Side panel
	6-segment flame LED 500003394	33.	ASP30-AM
	4-segment RGB LED X-3002350100RP		ASP36-AM
	5-segment RGB LED X-3002350400RP		ASP42-AM
	6-segment RGB LED X-3002350200RP		ASP48-AM
25.	8-segment RGB LED		All QST models 500005338
26.	Complete log set 500003774	34.	. Sill trim
27.	Tumbled glass	•	ASP30-AM/ QST30-AM500003734
28.	Flicker rod - Dynamic Fire		ASP36-AM/ QST36-AM500003736
	ASP30-AM/ QST30-AM500005441		ASP42-AM/ QST42-AM500003737
	ASP36-AM/ QST36-AM500005442		ASP48-AM/ QST48-AM500003738
	ASP42-AM/ QST42-AM500005443	35.	. Kick plate
	ASP48-AM/ QST48-AM500005444		ASP30-AM/ QST30-AM500003765
	Flicker rod - Multi-Fire		ASP36-AM/ QST36-AM500003766
	ASP30-AM/ QST30-AM500005290		ASP42-AM/ QST42-AM500003767
	ASP36-AM/ QST36-AM		ASP48-AM/ QST48-AM500003768
	ASP42-AM/ QST42-AM500005292	36.	. Front grill
	ASP48-AM/ QST48-AM500005293		ASP30-AM/ QST30-AM500003754
			ASP36-AM/ QST36-AM500003756
			ASP42-AM/ QST42-AM500003757
			ASP48-AM/ QST48-AM500003758

# **Wiring Diagrams - North America**

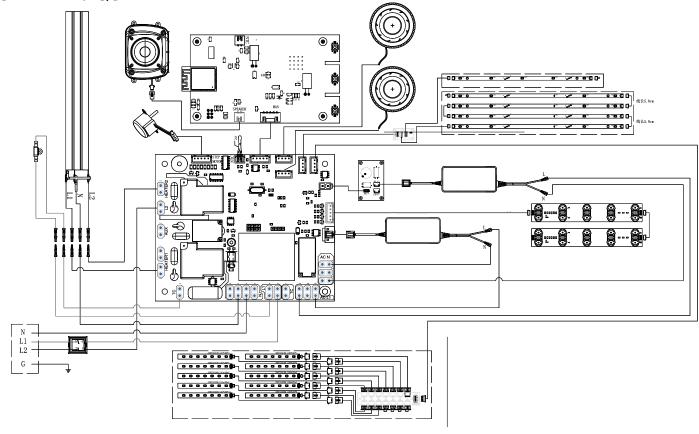
#### ASP30-AM / QST30-AM



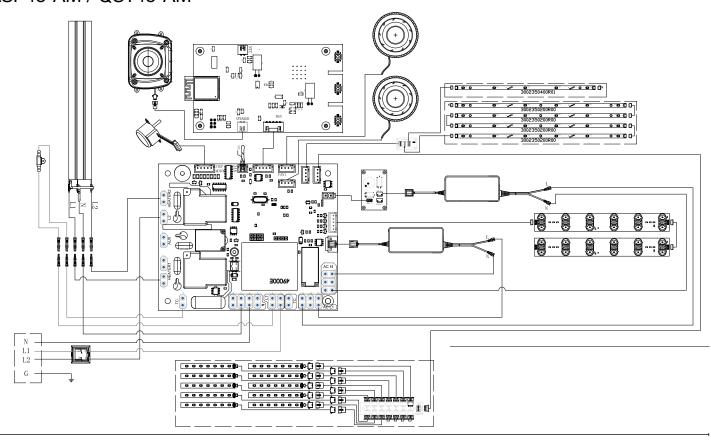
### ASP36-AM / QST36-AM



#### ASP42-AM / QST42-AM



#### ASP48-AM / QST48-AM



# Europe

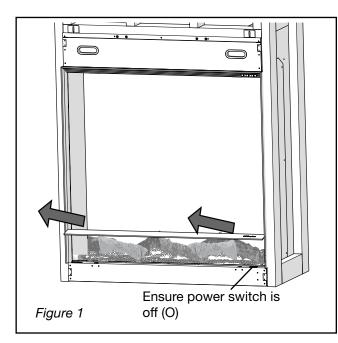
# Replacement Parts List - ASP30-EU

1. Hardware kit500005328	21. 6-segment flame LED500005198
2. Remote control	22. 4-segment RGB LED 500004577
3. Speaker	23. 5-segment RGB LED 500004578
4. Heater Assembly 500005219	24. N/A
5. Temperature sensor	25. N/A
6. On-board controls	26. Complete log set 500005327
7. Main control board500005220	27. Tumbled glass
8. Power board	28. Flicker rod
9. Power supply 5 A	29. Ember bed
10. Mirrored glass bracket	30. Reflective glass 500005320
11. Light shield	31. Front glass
12. Power switch	32. Side glass
13. Flicker motor	33. Side panel
14. Log expansion board 500005251	34. Sill trim500005321
15. Log wire harness 500005195	35. Kick plate500003765
16. Adapter Board	36. Front grill
17. Power cord	37. Side bracket set (4) 500005193
From product	38. Trim kit
EUX-03/22881/0	39. Suction cup
18. Heater jumper	

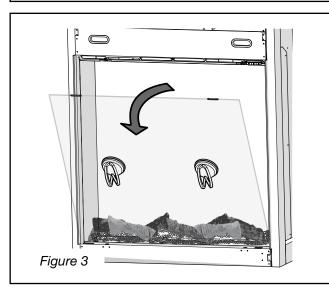
19. N/A

20. N/A

## Preparing the firebox for service in upper housing







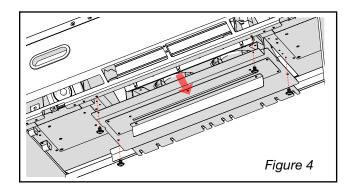
Heater assembly, on-board controls, overhead LEDs, and speaker are located in the top of the fireplace. The front glass needs to be removed to access these components.

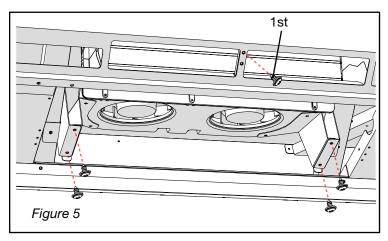
#### **Tools required:**

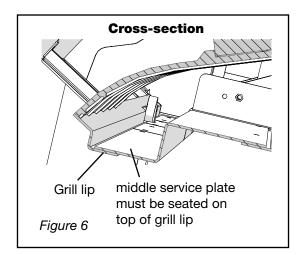
Suction cups (provided with fireplace) Philips head screwdriver

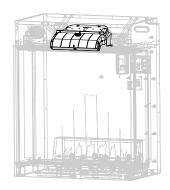
- ★ WARNING:If the firebox was operating prior to servicing, allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- **WARNING:** Disconnect power before attempting any maintenance to reduce the risk of electric shock or injury to persons.
- 1. Turn off the power to the fireplace before starting the service.
- 2. Remove magnetic sill trim. (Figure 1)
- 3. Remove the 3 screws that secure the top grill. (Figure 2)
- Attach the suction cups to the front glass and use them to lift the glass up and tilt it to remove it. (Figure 3) Note: Set the front glass in a safe place for the duration of the service.

## **Heater assembly replacement**









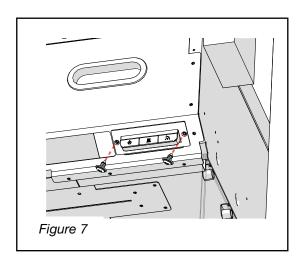
#### **Tools required:**

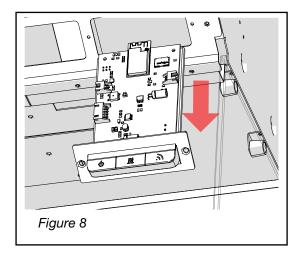
Suction cup (provided with fireplace) Philips head screwdriver

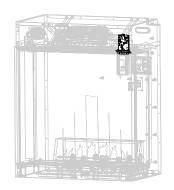
- Turn off the power to the fireplace from the electrical panel and follow steps for removing front glass.
- 2. Remove the 4 screws on the heater assembly panel. Slide the plate back to release it. (Figure 4)
- 3. Disconnect the LEDs to remove the plate and set it aside.
- 4. Remove the 5 screws holding the defective heater, starting with the one on the front grill. (Figure 5)
- 5. Transfer the connections to the new heater assembly.
- Secure the new heater assembly, starting with the one at the front on the grill.
- 7. Reinstall the middle panel assembly, starting from the back, ensuring that:a) the LED strip is reconnected at both endsb) the front of the service panel is tucked inside, sitting on top of the grill lip.
- 8. Reassemble the fireplace.

(Figure 6)

## **On-board controls replacement**





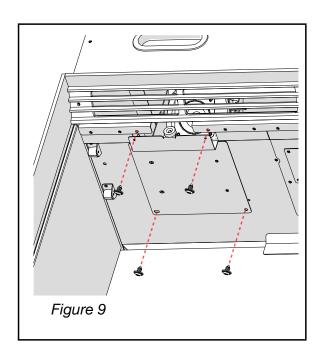


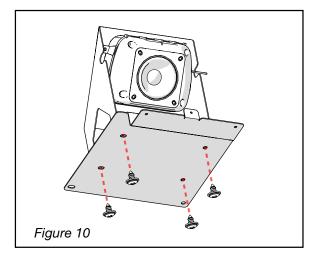
#### **Tools required:**

Suction cup (provided with fireplace) Philips head screwdriver

- 1. Turn off the power to the fireplace from the electrical panel and follow steps for removing the front glass.
- 2. Remove the 2 screws on each side of the onboard control assembly. (Figure 7)
- 3. Pull out the defective on-board control assembly. (Figure 8)
- 4. Transfer the connections from the old board to the new board.
- 5. Secure the new board.
- 6. Reassemble the fireplace.
- 7. Two QR code stickers are included with the replacement part; place one on the back of the owner's manual and the other beneath the sill trim to cover the existing QR codes.
- 8. Re-synchronize the remote to the new board.
- 9. If using the app, the fireplace will have to be added again.

# Speaker replacement





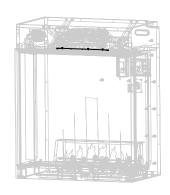


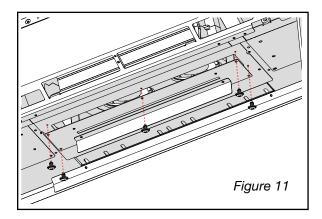
#### **Tools required:**

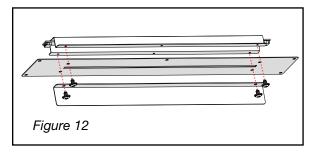
Suction cup (provided with fireplace) Philips head screwdriver

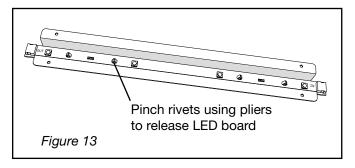
- 1. Turn off the power to the fireplace from the electrical panel and follow steps for removing front glass.
- 2. Remove the 4 screws on the speaker panel. Slide the bracket back to release it. (Figure 9)
- 3. Remove the four screws that hold the speaker. (Figure 10)
- 4. Transfer the connector to the new speaker.
- 5. Secure the new speaker.
- 6. Secure the bracket, ensuring the front part is tucked inside.
- 7. Reassemble the fireplace.

## **Overheard LED Replacement**









#### **Tools required:**

Suction cup (provided with fireplace)
Philips head screwdriver
Pliers

- 1. Turn off the power to the fireplace from the electrical panel and follow steps for removing front glass.
- Remove the 4 screws on the panel.
   Disconnect the LED connector. (Figure 11)
- 3. Disconnect the LED connectors.
- 4. Remove the four screws (two on each end). (Figure 13)
- 5. Pinch the standoffs while carefully pulling away the board to release it. (Figure 14)
- 6. Properly orient the board, ensuring that the IN is toward the right.
- 7. Transfer the connectors from the other side to the new board (the left side has a return wire connector)
- 8. Reassemble the fireplace.

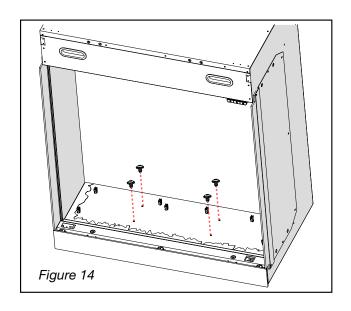
## Parts serviced under the ember bed

Ember bed LED strips, power switch, and log expansion board are located under the ember bed.

#### **Tools required:**

Suction cups (provided with fireplace)
Philips head screwdriver

- **WARNING:**If the firebox was operating prior to servicing, allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- **WARNING:** Disconnect power before attempting any maintenance to reduce the risk of electric shock or injury to persons.



- 1. Turn off the power to the fireplace before starting the service.
- 2. Remove magnetic sill trim. (Figure 1)
- 3. Remove the 3 screws that secure the top grill. (Figure 2)
- Attach the suction cups to the front glass and use them to lift the glass up and tilt it to remove it. (Figure 3)

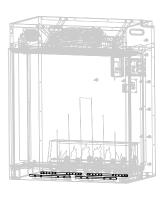
Note: Set the front glass in a safe place for the duration of the service.

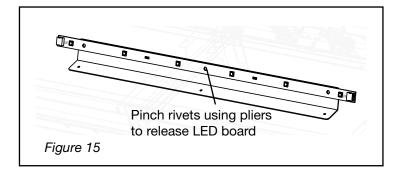
- 5. Disconnect each log and set them aside.
- 6. Remove the tumbled glass media and set aside.
- 7. Remove the screws that secure the media bed. (Figure 14)
- 8. Unplug the log wires from the log expansion board
- 9. Carefully remove the media bed (avoid bending the media bed), ensuring the wires don't get stuck.

#### When reassembling the fireplace

The logs are powered in series. When reconnecting the logs, the specific order is not important, but if not every connection is used, the connectors on the board need to be filled sequentially since they are powered in series (i.e. 1,2,3,4 – not 1,2,3,5)

## **Ember bed LED replacement**



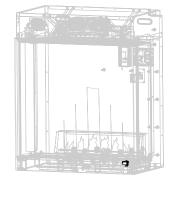


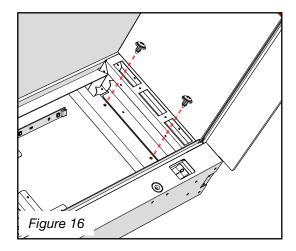
#### Tools required:

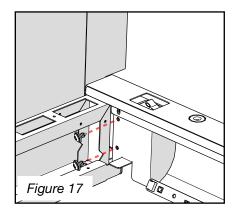
Suction cup (provided with fireplace) Philips head screwdriver

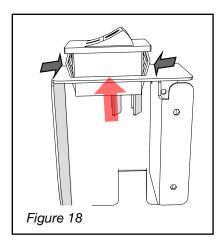
- Turn off the power to the fireplace from the electrical panel and follow steps for servicing components under the ember bed.
- 2. Disconnect connectors of the defective board
- 3. Pinch standoffs while carefully pulling the LED strip away to remove it (make not of which side of the LED says IN and OUT). (Figure 15)
- 4. Properly orient the new LED strip, ensuring that the IN and OUT are oriented correctly and secure it on the standoffs
- 5. Connect the LED strip.
- 6. Reassemble the fireplace.

# Power switch replacement







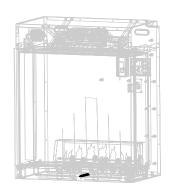


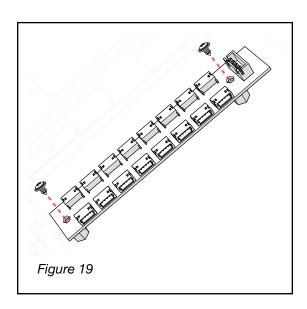
#### **Tools required:**

Suction cup (provided with fireplace)
Philips head screwdriver
Pliers

- 1. Turn off the power to the fireplace from the electrical panel and follow steps for servicing components under the ember bed.
- 2. Remove the 2 screws on the "raceway" bracket. (Figure 16)
- 3. Remove the 2 screws on the power switch bracket. (Figure 17)
- 4. Release the power switch from the bracket. (Figure 18)
- 5. Transfer the connections to the new power switch.
- 6. Secure the new power switch the bracket.
- 7. Secure the power switch bracket.
- 8. Secure the raceway bracket.
- 9. Reassemble the fireplace.

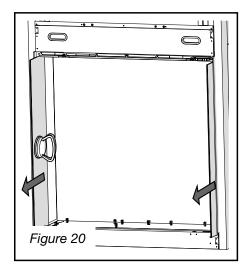
# **Expansion board replacement**

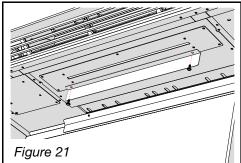


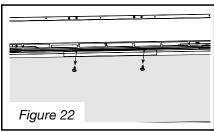


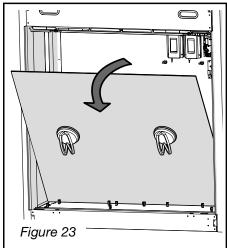
- Turn off the power to the fireplace from the electrical panel and follow steps for servicing components under the ember bed.
- 2. Disconnect the 4-pin connector
- 3. Remove the two screws
- 4. Secure the new log expansion board
- 5. Connect the 4-pin wires.
- 6. When reconnecting the logs, ensure they are connected sequentially, beginning with J1.
- 7. Reassemble the fireplace.

## Preparing for behind the mirrored glass









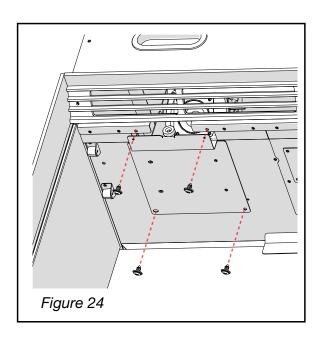
Heater assembly, on-board controls, overhead LEDs, and speaker are located in the top of the fireplace. The front glass needs to be removed to access these components.

#### **Tools required:**

Suction cups (provided with fireplace) Philips head screwdriver

- **WARNING:** If the firebox was operating prior to servicing, allow at least 10 minutes for the heating elements to cool off to avoid accidental burning of skin.
- **WARNING:** Disconnect power before attempting any maintenance to reduce the risk of electric shock or injury to persons.
- 1. Turn off the power to the fireplace before starting the service.
- 2. Remove magnetic sill trim. (Figure 1)
- 3. Remove the 3 screws that secure the top grill. (Figure 2)
- 4. Attach the suction cups to the front glass and use them to lift the glass up and tilt it to remove it. (Figure 3) Set it in a safe place for the duration of the service.
- 5. Using the suction cup, remove the side glass. (Figure 20)
- 6. Remove the 2 screws on the back glass bracket. (Figure 22)
- 7. Attach the suction cups to the back glass. Lift up and tilt to remove. (Figure 23) Set it in a safe location for the duration of the service.

### **Temperature Sensor Replacement**



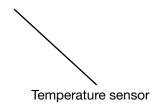


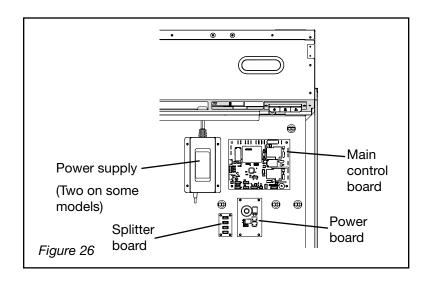
Figure 25

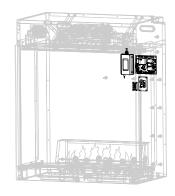


#### **Tools required:**

Suction cup (provided with fireplace)
Philips head screwdriver
Side cutters

- Turn off the power to the fireplace from the electrical panel and follow steps for service behind the mirrored glass.
- 2. Remove the 4 screws on the speaker panel. (Figure 24)
- 3. Slide the service panel back to release, and carefully lower it. Disconnect the speaker connector and set the speaker panel aside.
- 4. Remove the 2 screws on the temperature sensor bracket.
- 5. Cut the wire tie to remove the defective temperature sensor from its bracket.
- 6. Trace the temperature sensor wire to the main control board.
- 7. Disconnect the temperature sensor and remove it, cutting any restrictive wire ties.
- 8. Feed the connector from the new temperature sensor toward the main control board, and connect it into the correct location.
- 9. Secure the new temperature sensor on the temperature sensor bracket using the provided wire tie.
- 10. Secure the bracket using the two (2) screws previously removed.
- 11. Secure the left service panel and reassemble the fireplace.
- 12. Reassemble the fireplace.





#### **Tools required:**

Suction cup (provided with fireplace) Philips head screwdriver Side cutters

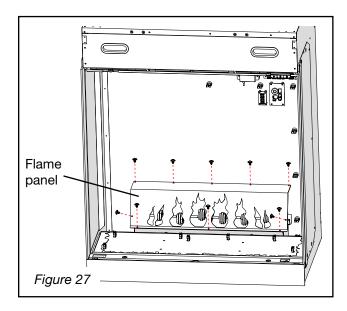
# Main control board replacement Power board replacement Splitter board replacement

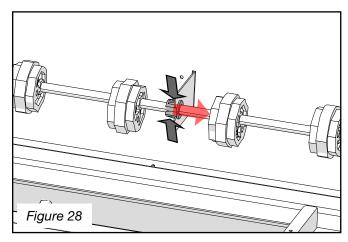
- Turn off the power to the fireplace from the electrical panel and follow steps for service behind the mirrored glass.
- 2. It is recommended to take a picture of the board and wires for reference
- 3. Transfer connections from the defective board to the new board. Cut any wire ties as needed to release bundles of wire to have more working room.
- 4. Remove screws that secure the defective board.
- 5. Secure the new board.
- Use provided wire ties to bundle wires, ensuring that they are held away from where the mirrored glass, otherwise bundles of wires may be visible during operation.
- 7. Reassemble the fireplace.

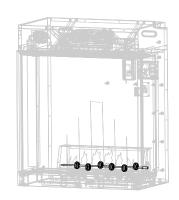
### Power supply replacement

- Turn off the power to the fireplace from the electrical panel and follow steps for service behind the mirrored glass.
- Remove the bracket that holds the defective power supply
- Transfer the connections to the new power supply
- 4. Secure the new power supply with the bracket.
- 5. Reassemble the fireplace.

# Flicker rod replacement





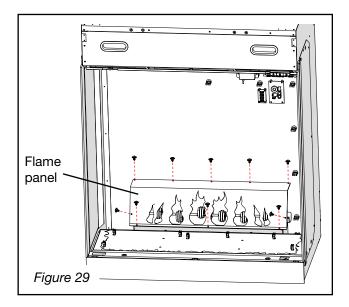


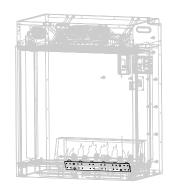
#### **Tools required:**

Suction cups (provided with fireplace) Philips head screwdriver

- 1. Turn off the power to the fireplace from the electrical panel and follow steps for service behind the mirrored glass.
- Remove the flame panel.
   Note: On larger models there are multiple segments.
- 3. Carefully pull the flicker rod off the flicker motor.
- 4. Remove the bushings from the bracket by pinching them and pushing them toward the right. Remove the old flicker rod.
- 5. Place the new flicker rod, starting by inserting the side with the "mushroom stud" on the left side. Put all the bushings in on the brackets.
- 6. Reattach the flicker motor to the flicker rod.
- 7. Reassemble the fireplace.

## Flame LED replacement



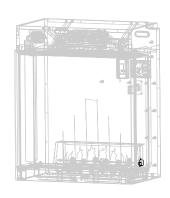


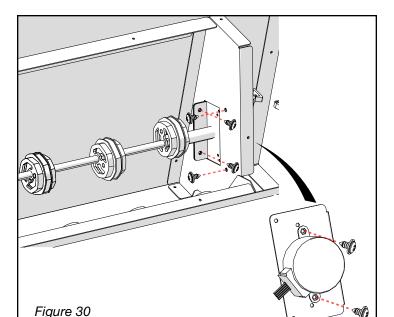
#### **Tools required:**

Suction cups (provided with fireplace) Philips head screwdriver

- 1. Turn off the power to the fireplace from the electrical panel and follow steps for service behind the mirrored glass.
- 2. Remove the flame panel.
- 3. On the flame LED bracket, remove the 4 screws (2 on each side) and the 3 screws at bottom.
- Pinch standoffs while carefully pulling the LED strip away to remove it. Make note of which side of the LED says IN and OUT.
- 5. Secure the new LED strip on the standoffs, ensuring that the IN and OUT are oriented correctly and connect the LED strip.
- 6. Secure the flame LED bracket.
- 7. Reinstall the flame panel(s).
- 8. Reassemble the fireplace.

### Flicker motor replacement





#### **Tools required:**

Suction cups (provided with fireplace) Philips head screwdriver

- 1. Turn off the power to the fireplace from the electrical panel and follow steps for service behind the mirrored glass.
- 2. Remove the flame panel.
- 3. Carefully pull the flicker rod off the flicker motor.
- 4. Remove the four screws on the flicker motor bracket.
- 5. Remove the two screws to remove the defective flicker motor and replace it with the new flicker motor.
- 6. Trace the wiring from the defective flicker motor to disconnect it and connect the new flicker motor in its place.
- 7. Use provided wire ties to bundle wires so that they are not obstructive, and they remain away from where the mirror will be (otherwise they will be visible during operation).
- 8. Secure the flicker motor bracket.
- 9. Reinstall the flame panel.
- 10. Reassemble the fireplace.

# Troubleshooting

Problem	Cause	Solution	
General			
Circuit breaker trips or fuse blows	Improper circuit current rating	Install unit on a dedicated minimum 15 amp circuit.	
when unit is turned on	Short in unit wiring	Trace wiring in unit	
Unit does not turn on (using on-board controls)	Power switch in off position	Ensure the rocker switch is in the ON position (1).	
	No power to unit	Ensure main disconnect panel and wall switch (if applicable) are on Ensure unit is wired correctly	
	Defective on-board controls	Replace on-board controls	
	Defective main control board	Replace main control board	
	Batteries installed incorrectly	Ensure correct polarity of batteries - Refer to operation manual.	
	Batteries are dead	Replace remote control batteries	
Remote control not working	Remote control out of range	Bring remote closer to fireplace. Range may be reduced with obstacles between remote and fireplace.	
	Remote control not synced	Refer the operation manual for instructions.	
	Defective remote control	Replace remote control	
	Defective on-board controls	Replace on-board controls	
	Flame sound not on/not loud enough	Press ♥) and press + repeatedly	
Flame sound is not working	Defective speaker	Replace speaker	
	Defective on-board controls	Replace on-board controls	
Noise			
Grinding or excessive noise with the	Defective flicker motor	Replace flicker motor	
heater off	Flicker rod out of position	Remove mirrored glass and inspect flicker rod.	
Excessive noise with the heater on	Dirty heater assembly	Ensure that exterior louvers are free of dirt/dust. Clean heater assembly with compressed air.	
(coming from top center)	Defective heater assembly	Replace heater assembly	
Flame sound is buzzing	Defective speaker	Replace speaker	
Heat			
Heat and fan turn off after a few minutes of operation	Dirty heater assembly	Ensure nothing obstructs the heater, the exterior louvers are free of dirt/dust. Clean heater assembly with compressed air.	
	Defective heater assembly	Replace heater assembly	
Heater does not turn on and  flashes three times on the on-board controls	Heater disabled	Press and hold \( \frac{\fint}}}}}}{\frac{\fint}}}}}{\frac}{\frac{\frac{\frac{\frac{\fir}{\fir}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\fir}{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\	
	Heater permanently disabled	If installation with heat is desired, reinstall jumper on the main board if available or replace it with a new main board or jumper.	
Heater does not turn on and <u>₩</u> is lit or	Set temperature too low	Change heater setting - Heater will not work beyond 30°C/86°F	
the on-board controls	Defective heater assembly	Replace heater assembly	
	Fan only setting - Indicated by blue LED on remote control (115 not lit)	Normal operation - change setting to turn on heat	
No heat, fan works	Cool down	Normal operation	
	Defective heater assembly	Replace heater assembly	
Hostor and fan don't turn on	Defective heater assembly	Replace heater assembly	
Heater and fan don't turn on	Defective main control board	Replace main control board	

#### Flame, lights, and logs

\*\*\*If one of any of these features are not working properly, verify that the other features are working properly in order to troubleshoot the cause of failure

the cause of failure			
Flame is frozen	Defective flicker motor	Replace flicker motor	
Flattie is itozett	Defective main control board	Replace main control board	
	Dusk mode (flame theme 8) is active	Use the remote control or mobile app to select a different flame theme.	
No flame	Defective flame LED strip(s)	Replace LED strip(s)	
No name	Defective power supply	Replace power supply (right side - connected directly to main control board)	
	Defective main control board	Replace main control board	
A portion of the flame is missing	Defective flame LED strip(s)	Replace LED strip(s)	
Overhead lights not working	Defective LED strip(s)	Replace LED strip(s)	
	Defective splitter board	Replace splitter board	
A portion of overhead light is missing	·		
Ember bed lights not working	Defective LED strip(s)	Replace LED strip(s)	
Elliber bed lights flot working	Defective splitter board	Replace splitter board	
A portion of ember bed lights not working	Defective LED strip(s)	Replace LED strip(s)	
Ember bed and logs are not lit	Midnight mode (theme 7) is active	Refer to operation section.	
No logs are lit (flame and ember bed	Log furthest to the left is defective	Plug a different log into the connector furthest to the left. If it lights up, replace the defective log.	
are on)	Defective log expansion board	Replace log expansion board	
	Defective main control board	Replace main control board	
	Defective log	Identify which log is defective by plugging the unlit logs into the connector furthest to the left.	
Some logs are not lit	Logs not plugged sequentially	If all logs work in connector furthest to the left, ensure all wires are plugged into the log expansion board.	
	Defective log wire harness	Replace log wire harness	
	Defective log expansion board	Replace log expansion board	
Ember bed and overhead lights not	Defective splitter board	Replace splitter board and/or main control board	
working	Defective main control board		
Logs, ember bed, and overhead lights	Defective power board	Replace power board, power supply (the one connected to the power board), and/or main	
not working (all or a portion of the	Defective power supply		
flame may be missing as well)	Defective main control board	control board.	

	Err 1	Temperature cut- out is activated	Reset breaker and wait 5 minutes before turning unit back on it. If error persists, see Service Manual.
Error Code is displayed (On the Flame Connect app only)	Err 12	Ambient temperature is above 45° C (113° F)	No action required.
	Err 13	Ambient temperature is below 5° C (41° F)	No action required.
	Err 16	NTC not detected	See service manual.

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