



E83 / E84 FOOD WARMERS

**SERVICE
MANUAL**



 **WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.**

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This manual is designed to take a more in depth look at the E83 and E84 food warmers for the purpose of making the units more understandable to service people.

There are settings explained in this manual that should never require to be adjusted, but for completeness and those special cases where these settings are required to change, this manual gives a full explanation as to how, and what effects will result.

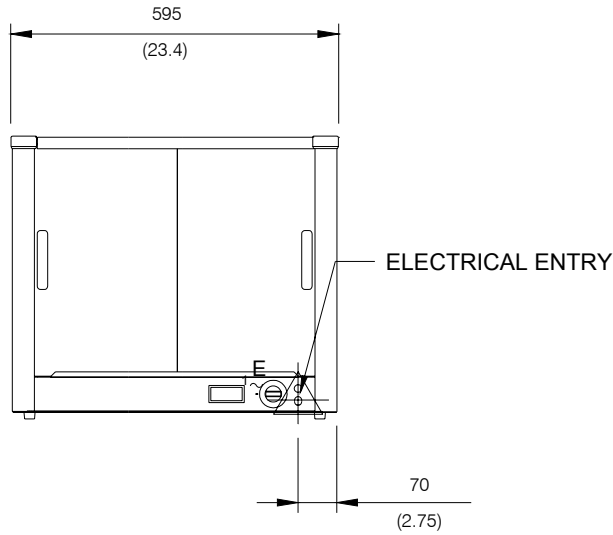
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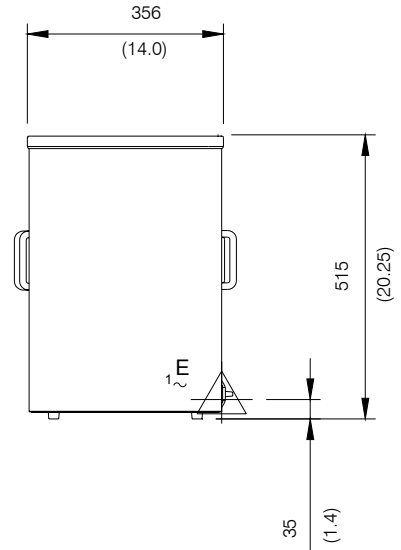
IMPORTANT: MAKING ALTERATIONS MAY VOID WARRANTIES AND APPROVALS.

1. SPECIFICATIONS

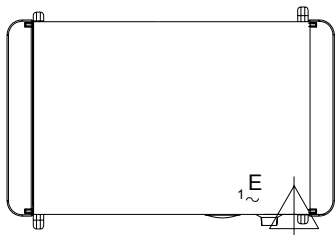
MODEL: E83



FRONT



SIDE



PLAN

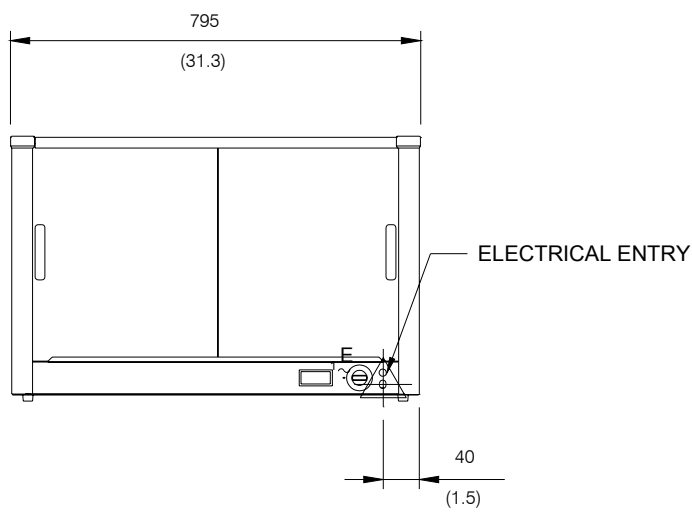
LEGEND



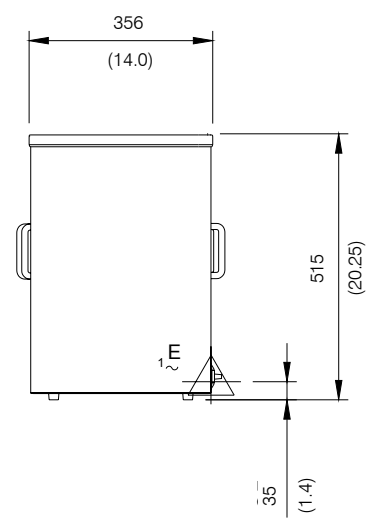
- Electrical connection entry point

Dimensions shown in millimetres.
Dimensions in inches shown in brackets.

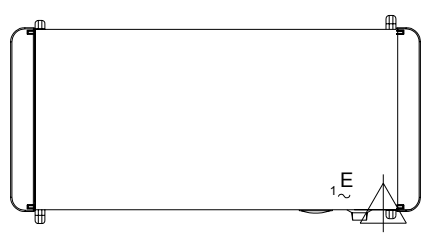
MODEL: E84



FRONT




SIDE



PLAN

LEGEND

 - Electrical connection entry point

Dimensions shown in millimetres.
Dimensions in inches shown in brackets.

WARMER INTERNAL DIMENSIONS

E83

Width 500mm / 19.7"
Height 375mm / 14.75"
Depth 310mm / 12.2"
Warmer Volume 0.06m³ / 2.1ft³

E84

Width 700mm / 27.5"
Height 375mm / 14.75"
Depth 310mm / 12.2"
Warmer Volume 0.08m³ / 2.8ft³

OVEN RACK SIZE

E83

Width 493 mm / 19.5"
Depth 295 mm / 11.5"

E84

Width 693 mm / 27.25"
Depth 295 mm / 11.5"

ELECTRICAL SUPPLY SPECIFICATION OPTIONS

E83

100-120 Volts A.C, 7.3 Amp, 0.8kW
220-240 Volts A.C, 3.4 Amp, 0.8kW

E84

100-120 Volts A.C, 10.0 Amp, 1.1kW
220-240 Volts A.C, 4.6 Amp, 1.1kW

ELECTRICAL PLUG SPECIFICATION REQUIREMENTS

Australia 3-pin 250V 10A, AS/NZ 3112
Canada 3-pin 120V 15A, NEMA 5-15
New Zealand 3-pin 250V 10A, AS/NZ 3112
United Kingdom 3-pin 250V 13A fused, BS 1363A
Other Countries 3-pin 250V 10A minimum, type
to meet country standards

2. INSTALLATION

 **WARNING:** THIS APPLIANCE MUST BE GROUNDED.

 **WARNING:** ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.

It is most important that the food warmer is installed correctly and that the operation is correct before use. Installation shall comply with local electrical, health and safety requirements.

BEFORE CONNECTION TO POWER SUPPLY

Unpack and check unit for damage and report any damage to the carrier and dealer. Report any deficiencies to your dealer. Check that the available power supply is correct to that shown on the rating plate located on the base panel.

E83

100-120 Volts A.C, 7.3 Amp, 0.8kW

220-240 Volts A.C, 3.4 Amp, 0.8kW

E84

100-120 Volts A.C, 10.0 Amp, 1.1kW

220-240 Volts A.C, 4.6 Amp, 1.1kW

ELECTRICAL CONNECTION

E83 and E84 food warmers are supplied with pre-fitted cords. Ensure unit is fitted with correct cord and plug for the installation (refer specifications section).

RATING PLATE LOCATION

The rating plate for the E83 and E84 food warmers is located on the base plate of the unit.

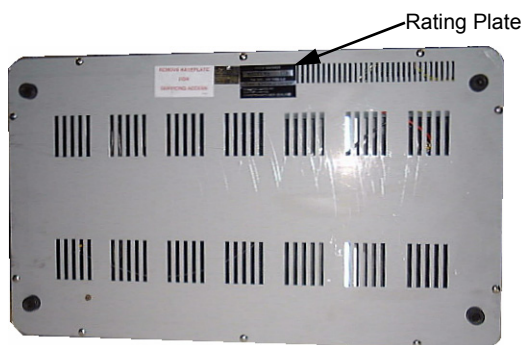


Figure 2.1

3. OPERATION & MAINTENANCE

NOTE: A full user's operation manual is supplied with the product and can be used for further referencing of installation, operation and service.

3.1 DESCRIPTION OF CONTROLS

OPERATION

This unit is designed to heat pre-cooked food to serving temperature, and keep it warm until required.

The element is thermostat controlled. Turn thermostat dial clockwise to the desired level (or on full until the desired temperature is reached, then turn anti-clockwise until the pilot light goes out). The thermometer shows the temperature in the cabinet. The pilot light illuminates when the element is on.

Place food on the racks provided, with space between to allow hot air to circulate.

NOTE: All models are supplied with a door retaining bracket. When fitted, the two rear doors cannot be opened. Remove if not needed.

3.2 MAINTENANCE



WARNING: ALWAYS TURN THE POWER SUPPLY OFF BEFORE CLEANING.



IMPORTANT: THIS UNIT IS NOT WATER PROOF.
DO NOT USE A WATER JET SPRAY TO CLEAN EITHER INTERIOR OR EXTERIOR OF THIS UNIT.

Remove doors - lift up out of bottom channel and lower them out of top channel. (For full glass back option, lift glass straight up). Remove racks after doors have been removed.

Remove element guard by lifting out.

Clean with a damp cloth and detergent.

Re-assembly is the reverse of steps above.

To replace door locate top of door into top channel and lower door into bottom channel.

4. TROUBLE SHOOTING

⚠ WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.

FAULT	POSSIBLE CAUSE	REMEDY
THE WARMER DOES NOT OPERATE	The mains isolating switch on the wall, circuit breaker or fuses are "off" at the power board.	Turn on.
	Incorrect electrical supply. (Refer fault diagnosis 5.1.1)	Ensure electrical supply correct.
	Thermostat on unit faulty. (Refer fault diagnosis 5.1.1)	Replace. (Refer service section 5.3.2)
	Element faulty (blown). (Refer fault diagnosis 5.1.1)	Replace. (Refer service section 5.3.4)
INDICATOR LIGHT NOT WORKING	Indicator faulty. (Refer fault diagnosis 5.1.2)	Replace. (Refer service section 5.3.1)
LAMP NOT WORKING (-L MODELS ONLY)	Lamp faulty (blown). (Refer fault diagnosis 5.1.3)	Replace. (Refer service section 5.3.6)

5. SERVICE PROCEDURES

 **WARNING:** ENSURE POWER SUPPLY IS SWITCHED OFF BEFORE SERVICING.

 **WARNING:** ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.

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5.1 FAULT DIAGNOSIS

5.1.1 WARMER DOES NOT OPERATE

Incorrect electrical supply

Check that the voltage across phase and neutral (L1 and L2) wires is the voltage as stated on the unit's electrical rating plate.

If incorrect, check electrical connection of supply wiring and / or check electrical supply.

Thermostat faulty

Check voltage to terminal P on warmer thermostat. If there is no voltage then check wiring.

Set thermostat to 80°C. Check the voltage out of terminal 1 on the thermostat. If there is no voltage then the thermostat is faulty—replace.

If the voltage is correct then check all wiring to element.

Element faulty (blown)

With the thermostat on and heating, check the voltage across element terminals. If the voltage is correct then check the current draw of the element. If there is no current draw then the element is faulty—replace.

If there is no voltage to element terminals then check voltage is being supplied to element from terminal 1 on thermostat. If no voltage at 1 then check for voltage at terminal P. If power to P (and none to 1) then thermostat is faulty—replace.

NOTE: Correct element current draw:

	230V	110V
E83:	3.5A ± 5%	7.3A ± 5%
E84:	4.8A ± 5%	10.0A ± 5%

5.1.2 INDICATOR LIGHT NOT WORKING

Indicator faulty

With power to unit on, check the voltage across the indicator terminals. If the voltage is correct then indicator is faulty—replace.

If there is no voltage then check voltage is being supplied from terminal 1 of thermostat (refer Thermostat faulty).

5.1.3 LAMP NOT WORKING (-L MODELS)

Lamp faulty (blown)

With power to unit on, check voltage across lamp terminals. If voltage is correct, lamp is faulty—replace. If no voltage, check wiring.

5.2 ACCESS

5.2.1 BASE PANEL

- 1) Remove doors, racks and element guard.
- 2) Turn unit onto its back and remove 10 screws securing the base panel to the unit. The base panel can now be removed.

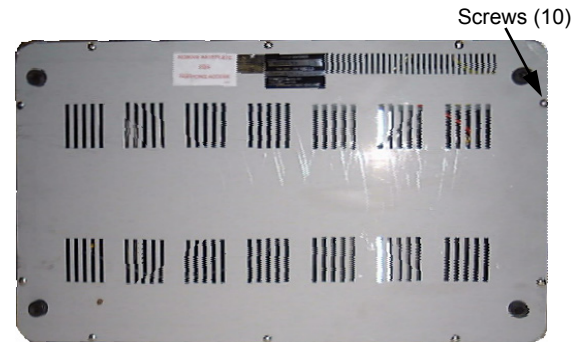


Figure 5.2.1

5.3 REPLACEMENT

5.3.1 INDICATOR LIGHT

- 1) Remove base panel (refer 5.2.1).
- 2) Remove wires from indicator light, noting their positions.
- 3) Push indicator light through from rear of panel.
- 4) Replace and re-assemble in reverse order.

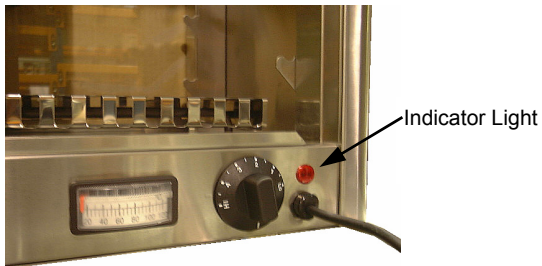


Figure 5.3.1

5.3.2 THERMOSTAT

- 1) Remove base panel (refer 5.2.1).
- 2) Remove four screws at inside top of unit.

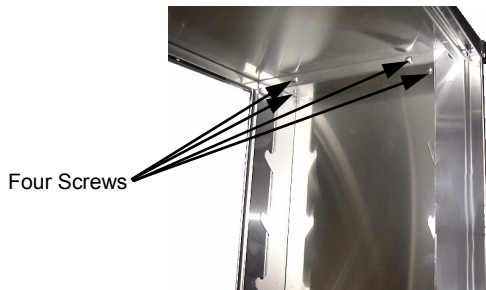


Figure 5.3.2

- 3) Remove black end cap, and slide off right hand side panel.
- 4) Remove thermostat phial from phial bracket located at inside top of unit.



Figure 5.3.3

- 5) Remove two screws securing thermostat to front panel of unit, and withdraw thermostat.

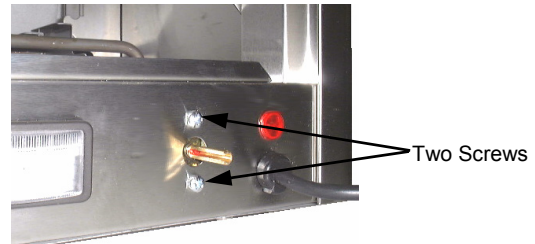


Figure 5.3.4

- 6) Transfer wires to new thermostat and re-assemble in reverse order.

5.3.3 THERMOMETER

- 1) Remove base panel (refer 5.2.1).
- 2) Remove four screws at inside top of unit. (Refer figure 5.3.2)
- 3) Remove black end cap, and slide off right hand side panel.
- 4) Remove thermometer phial from phial bracket located at inside top of unit.



Figure 5.3.5

- 5) Push thermometer through from rear of panel, whilst depressing the securing clips.

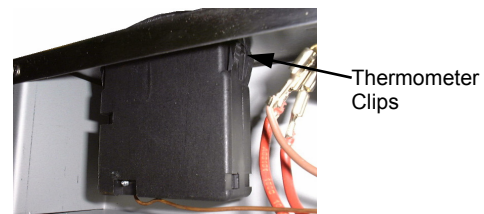


Figure 5.3.6

- 6) Replace and re-assemble in reverse order.

5.3.4 ELEMENT

- 1) Remove base panel (refer 5.2.1).
- 2) Remove wires from element terminals, and remove nuts securing element to unit.

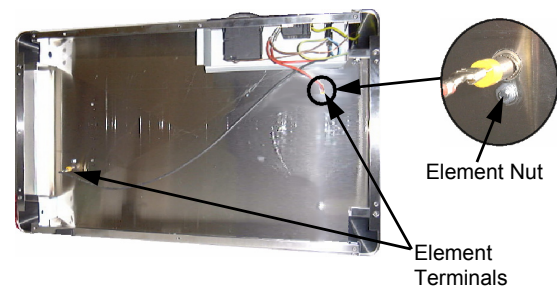


Figure 5.3.7

- 3) Withdraw element from unit, by carefully unclipping from element support.
- 4) Replace and re-assemble in reverse order.

5.3.5 DOOR HANDLE

- 1) Remove door from unit.
- 2) Remove two screws securing door handle to door.
- 3) Replace and re-assemble in reverse order, ensuring that a fibre washer is placed between each screw and the door glass.

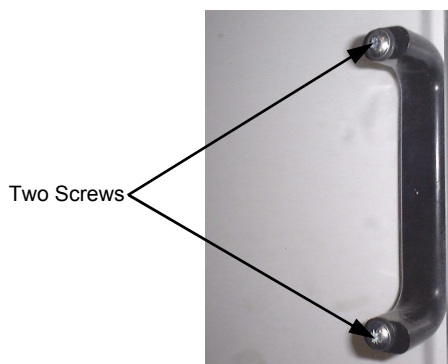


Figure 5.3.8

5.3.6 LAMP (E83-L / E84-L MODELS ONLY)

- 1) Prise off lamp cover from lamp housing, located at top of unit.



Figure 5.3.9

- 2) Replace lamp, and re-secure lamp cover.

5.3.7 LAMP HOUSING (E83-L / E84-L MODELS ONLY)

- 1) Remove four screws at inside top of unit, on both the left and right hand sides.

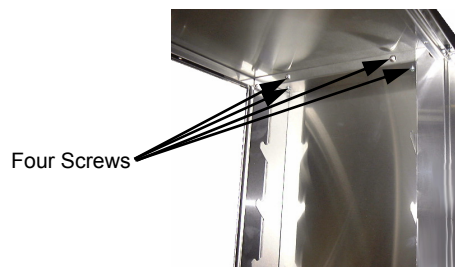


Figure 5.3.10

- 2) Remove black end caps, and remove top cover from unit.
- 3) Remove wires from the lamp housing terminals, noting their positions.

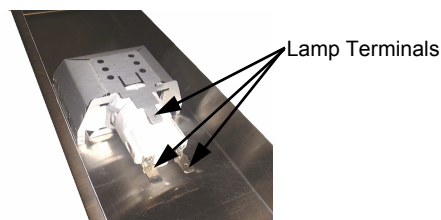
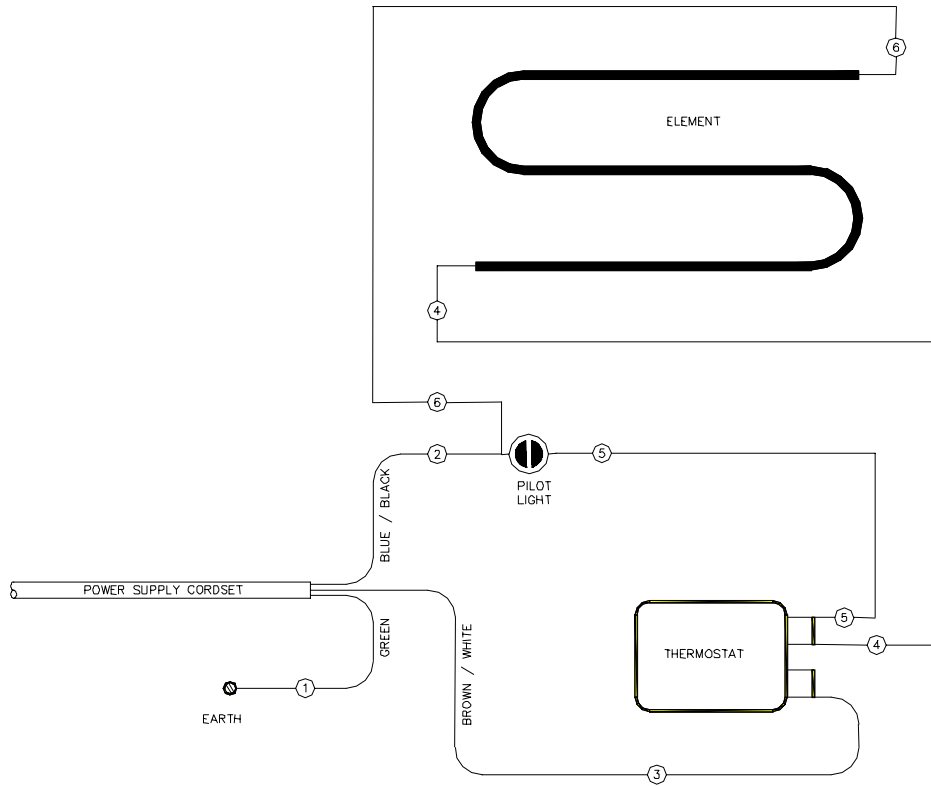


Figure 5.3.11

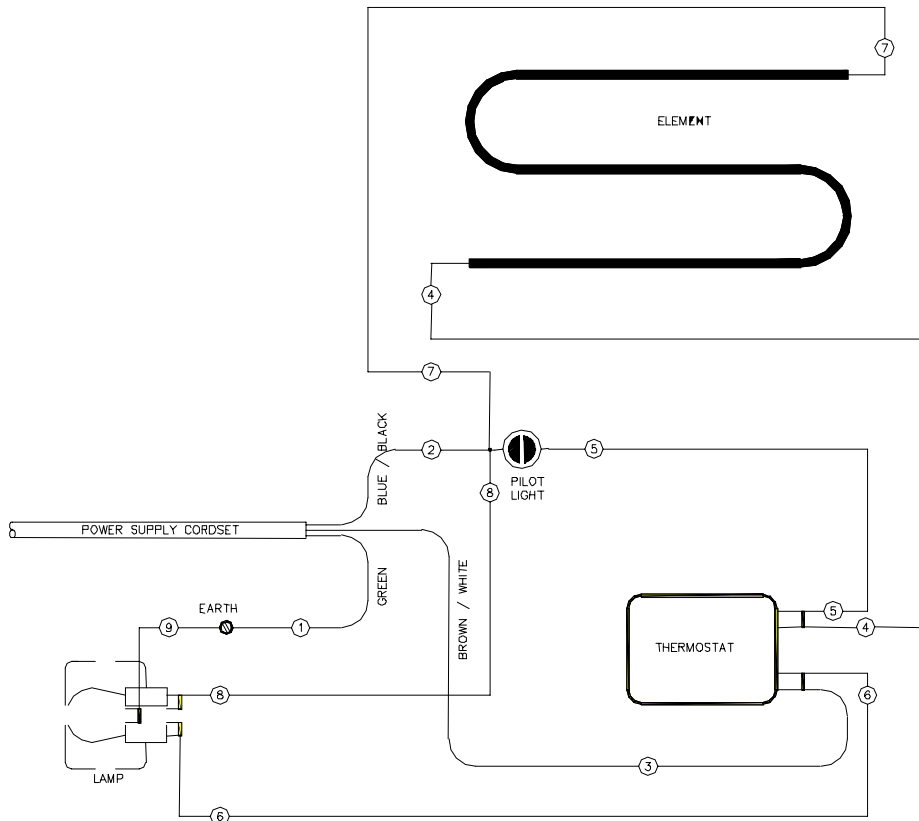
- 4) Push lamp housing through bracket from top of unit. Replace and re-assemble in reverse order.

6. ELECTRICAL WIRING DIAGRAM

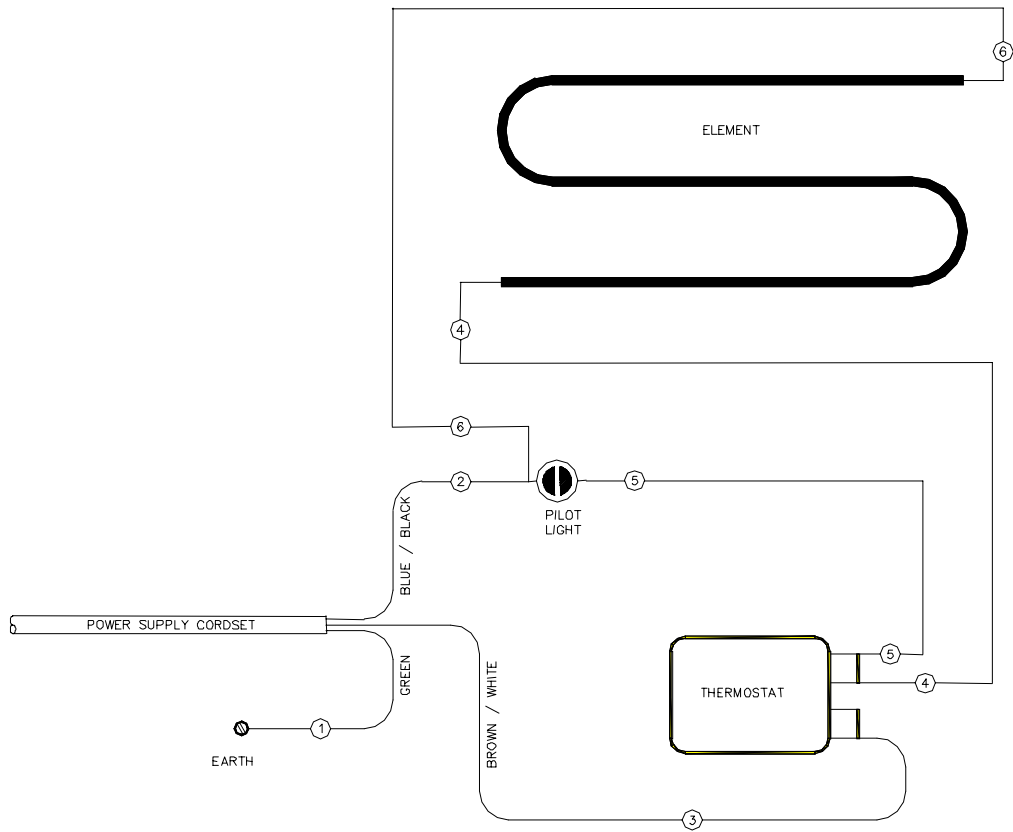
6.1 E83



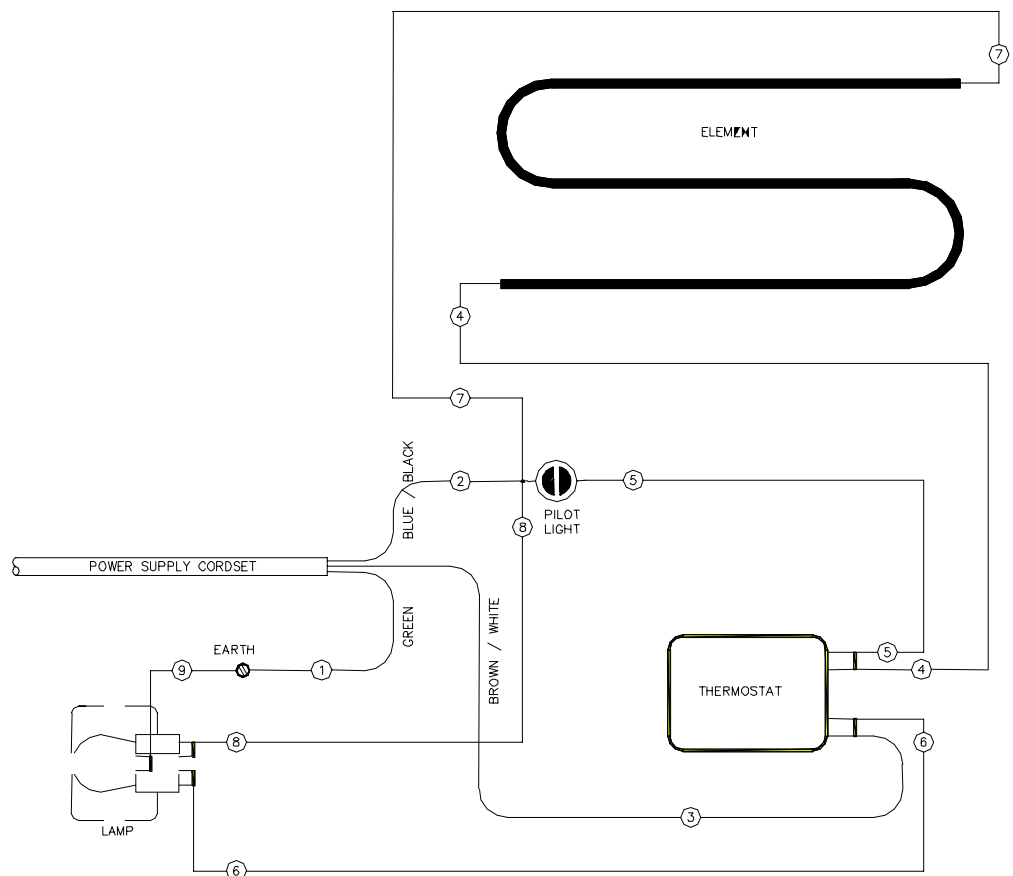
6.2 E83 - L



6.3 E84



6.4 E84 - L

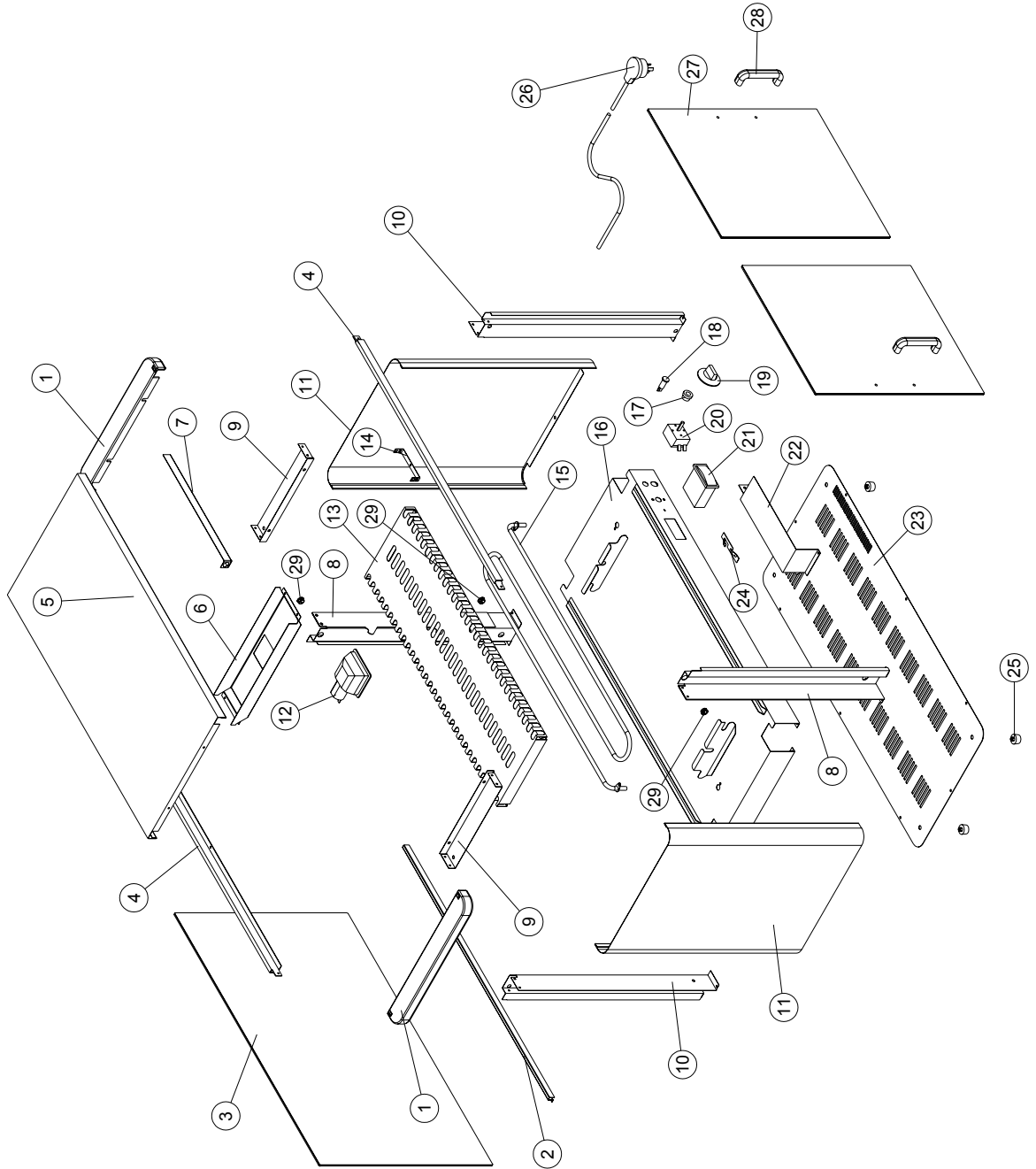


7. SPARE PARTS

PART NO	DESCRIPTION
020960	Door Glass (E83 only)
020961	Door Glass (E84 only)
020962	Glass Back Panel (E83 only)
020963	Glass Back Panel (E84 only)
018178K	Door Handle Kit
020964	Rack (E83 only)
020965	Rack (E84 only)
021109	Element - 240V 800W (E83 only)
022103	Element - 110V 800W (E83 only)
021110	Element - 240V 1100W (E84 only)
022102	Element - 110V 1100W (E84 only)
011980	Thermostat
021112	Knob
021113	Thermometer
013528	Neon Indicator
021342	Lamp Holder Assembly (Light Models Only)
014218	Bulb E14 25W 240V (Light Models Only)
014219	Bulb E14 15W 115V (Light Models Only)
21114	Foot
20966	End cap
21102	Element Guard (E83 only)
21103	Element Guard (E84 only)

8. PARTS DIAGRAMS

8.1 MAIN ASSEMBLY



Pos	Part No.	Description
1	020966	END CAP - BLACK
2	021107	DOOR CHANNEL TRIM (E83 SOLID BACK ONLY)
	021108	DOOR CHANNEL TRIM (E84 SOLID BACK ONLY)
3	020962	FULL GLASS PANEL (E83 SOLID BACK ONLY)
	020963	FULL GLASS PANEL (E84 SOLID BACK ONLY)
4	021099	DOOR CHANNEL UPPER (E83 ONLY)
	021100	DOOR CHANNEL UPPER (E84 ONLY)
5	021087	WRAPPER TOP (E83 ONLY)
	021089	WRAPPER TOP (E83 SOLID BACK ONLY)
	021088	WRAPPER TOP (E84 ONLY)
	021090	WRAPPER TOP (E84 SOLID BACK ONLY)
6	021757	LAMP CHANNEL (LIGHT MODEL ONLY)
7	021758	WIRING COVER (E83 LIGHT MODEL ONLY)
	021759	WIRING COVER (E84 LIGHT MODEL ONLY)
8	021098	CORNER POST LH
9	021085	TOP RAIL
10	021097	CORNER POST RH
11	021091	WRAPPER SIDE
12	021342	LAMPHOLDER ASSEMBLY 240V (LIGHT MODEL ONLY)
	014218	BULB E14 25W 240V (LIGHT MODEL ONLY)
	014219	BULB E14 15W 125V (LIGHT MODEL ONLY)
13	021102	ELEMENT GUARD (E83 ONLY)
	021103	ELEMENT GUARD (E84 ONLY)
14	021101	PHIAL GUARD
15	021109	ELEMENT - 240V -800W (E83 ONLY)
	021110	ELEMENT - 240V -1100W (E84 ONLY)
	022103	ELEMENT - 110V -800W (E83 ONLY)
	022102	ELEMENT - 110V -1100W (E84 ONLY)
16	021092	BASE (E83 ONLY)
	021093	BASE (E84 ONLY)
17	002597	CORD GRIP GROMMET
	015098	CORD GRIP GROMMET (CAN / UK ONLY)
18	013528	PILOT LAMP
19	021112	KNOB
20	011980	THERMOSTAT
21	021113	THERMOMETER (20 - 120°C) (DUAL MARKINGS)
22	021104	HEAT SHIELD
23	021105	BASE COVER (E83 ONLY)
	021106	BASE COVER (E84 ONLY)
24	010547	DOOR RETAINER
25	021114	FOOT
26	002414	CORDSET (AU / NZ)
	017453	CORDSET 13A FUSED (UK ONLY)
	025855	CORDSET NEMA 5-15P (CANADA ONLY)
	012877	POWER FLEX - 7.5 Amp
	012289	CORDSET - 110V
27	020960	GLASS DOOR (E83 ONLY)
	020961	GLASS DOOR (E84 ONLY)
28	018178K	HANDLE KIT
29	013062	SNAP BUSH – 12.7mm (LIGHT MODEL ONLY)
	020964	RACK (E83 ONLY) (NOT SHOWN)
	020965	RACK (E84 ONLY) (NOT SHOWN)

9. SERVICE CONTACTS

AUSTRALIA

VICTORIA - MOFFAT PTY

HEAD OFFICE AND MAIN WAREHOUSE
740 Springvale Road
Mulgrave VIC 3170
Spare Parts Department

Tel (03) 9518 3888
Fax (03) 9518 3838
Free Call 1800 337 963
Fax (03) 9518 3895

NEW SOUTH WALES - MOFFAT PTY

Unit 8/142 James Ruse Drive
Rosehill NSW 2142
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