

TECHNICAL INFORMATION Master Chef (30") Ovens

Includes: H394B, H395B, H395BP, H396B, H396BP, H397B2, H397BP2, H398B2 & H398BP2

Master Chef Ovens – Table of Contents

1.0 CONSTRUCTION & DESIGN

1.1 Summary of Model Numbers	1
1.2 Appliance Overview	3
1.2.1 Appliance Overview – Single Oven	3
1.2.2 Appliance Overview – Double Oven	4
1.3 Overview of User Controls	5
1,3,1 Overview of Controls – Single Oven	5
1.3.2 Overview of Controls – Double Oven	6
1.4 Dimensions	6
1.4.4 Dimensions – Single Oven	7
1.4.2 Dimensions – Double Oven	8
1.5 Component Overview	9
1,5,1 Component Overview – Single Oven w/o Master Chef Menu	9
1.5.2 Component Overview – Single oven w/ Master Chef Menu	10
1.5.3 Component Overview – Double Oven – w/o Self Clean	11
1.5.4 Component Overview – Double Oven w/ Self Clean	13

2.0 INSTALLATION

2.1 Electrical Connection	16
2.1.2 Electrical Connection – Operational	16
2.1.2 Electrical Connection – Demo / Showrooms	16
2.2 Installation Guide	17

3.0 COMMISSION and OPERATION

3.1 General Operation	
3.2 Turning off the oven	19
3.3 Power Failures	19
3.4 Special Features	20
3.4.1 Self Clean (Self Clean Models Only)	20
3.4.2 Door Lock (Self Clean Models Only)	20
3.4.3 Master Chef (all models except H394)	20
2.4.4 Child Safety Lock (all models)	21

4.0 DESCRIPTION of FUNCTION

4.1 Cooling Fan - Specifications	24
4.2 Cooling Air Intake	24
4.3 Vapor Intake	24
4.4 Cooling Air Path	24
4.5 Cooling Air Exit	24
4.6 Door Contact Switch (1S24 & 2S24)	24
4.7 Heating Elements	25
4.7.1 Heating Element Activation	25
4.8 Automatic / Safety Shutdown	26
4.9 Cavity Temperature Sensor (1R30 & 4R30)	26
4.10 Roast Probe (2R30 & 5R30)	27
4.11 Self Clean Temperature Sensor (3R30 & 6R30)	27
4,12 Thermal Cut-Outs (1F1 & 3F1)	28
4.12.1 Thermal Cut-Outs (2F1 & 4F1) (Self Clean Models Only)	28
4.13 Convection Fan	28
4.14 Rotisserie Motors (1M15 & 2M15) (all models except H394)	28
4.15 Oven Cavity Lights	28
4.16 Automatic Door Lock (Self Clean Models Only)	29

5.0 SERVICE and MAINTENANCE

5.1 Cleaning & Care Information	31
5.1.1 Perfect Clean	31
5.1.2 Manually Cleaning the Oven Cavity	<u>31</u>
5.2 Front Door – Removal	32
5.3 Runners – Removal	<u>33</u>
5.4 Halogen Light Bulb – Replacement	33
5.5 Removing the Appliance for Service	35
5.6 Control Panel – Removal	<u>35</u>
5.7 Safety Cover - Removal	<u>35</u>
5.8 Top Cover – Removal	37
5.9 Upper Back Panel (Double Ovens) – Removal	37
5.10 Lower (or Single Oven) Back Panel – Removal	37
5.11 Upper (Double Oven) Side Covers - Removal	37
5.12 Lower (or Single Oven) Side Covers – Removal	38

5.0 SERVICE and MAINTENANCE (Continued)

5.13 Air Shield (Double Ovens) - Removal	38
5.14 Upper (or Single Oven) Cooling Fan - Removal	39
5.15 Lower Oven (Double Oven) Cooling Fan – Removal	40
5.16 Door Latch – Manual Release (Self Clean Models)	41
5.17 Upper Door Latch Drive Motor & Switch (Double Oven w/ Self Clean) - Removal	42
5.18 Lower Door Latch Drive Motor & Switch (Double Oven w/ Self Clean) - Removal	43
5.19 Upper (or Single Oven) Door Latch & Switch, Door Close Switch – Access	44
5.20 Lower (Double Oven) Door Latch & Switch, Door Close Switch – Access	46
5.21 Oven Cavity Back Panel – Removal	47
5.22 Top Heater / Broiler Heating Element – Removal	48
5.23 Convection Heating Element – Removal	49
5.24 Convection Fan – Removal	50
5.25 Operational Temperature Sensor – Removal	51
5.26 Self Clean Temperature Sensor – Removal	51
5.27 Self Clean Temperature Sensor Resistance Value Test	52
5.28 Rotisserie Motor(s) – Removal	52
5.29 Catalyst Insert (Self Clean Models Only) – Removal	53
5.30 Front Door, Outer Glass Pane – Removal	54
5.31 Front Door , Middle Glass Pane – Removal	55
5.32 Front Door, Interior Glass Pane – Removal	56
5.33 Door Hinge(s) – Removal	57

6.0 FAULT DIAGNOSIS

6.1 Service Mode	
6.2 Programming Mode	62
6.3 Fault Code Summary	65
6.4 Electronic Boards – Layout	66
6.4.1 Main Electronic	66
6.4.2 Display Electronic	66

Master Chef Ovens - List of Figures

1-1 Overview of Single Oven	3
1-2 Overview of Double Oven	4
1-3 Single Oven Controls	5
1-4 Overview of Double Oven Controls	6
1-5 Dimensions of Single Ovens	7
1-6 Dimensions of Double Oven	8
1-7 Component Overview – Single Oven w/o Master Chef Menu	9
1-8 Component Overview – Single Oven w/ Master Chef and Self Clean	10
1-9 Component Overview – Double Oven w/o Self Clean	11
1-10 Component Overview – Double Oven w/ Self Clean	13
2-1 Miele Installation Manual (Cover)	15
2-2 Electrical Connection – Operational	16
2-3 Electrical Connection – Demo / Showrooms	16
2-4 Installation Guide (overview sheet)	17
3-1 Power Failure Message Displayed	19
4-1 Airflow Paths	23
4-2 Upper Heater Element Cavity Temperature Sensor	26
4-3 Roast Probe	27
4-4 Self Clean Temperature Sensor & Catalyst Vapor Outlet	27
4-5 Convection Airflow	28
4-6 Door Locking Components (Self Clean Models Only)	29
5-1 Door Hinge Locking Tabs	32
5-2 Removing the Runners From the Oven Cavity	33
5-3 Prying the Light Cover Off	33
5-4 Sliding the Light Cover from the Clamps	34
5-5 Control Panel, Safety Panel & Top Cover Retaining Screws	36
5-6 Air Shield Panel	38
5-7 Upper (or Single Oven) Cooling Fan	39
5-8 Lower Oven Cooling Fan	40
5-9 Manual Release of the Door Latch (Self Clean Models Only)	41
5-10 Door Latch Drive Motor Assembly (Self Clean Models Only)	42
5-11 Door Latch and Cable (Self Clean Models Only)	43
5-12 Upper (or Single) Housing Retaining Screws	44
5-13 Door Latch Assembly	45

Master Chef Ovens - List of Figures (Continued)

5-14 Lifting / Separating the Housing (Double Ovens)	46
5-15 Removing the Oven Cavity Back Pane	47
5-16 Top Heating Element	48
5-17 Convection Fan and Heater Element	49
5-18 Convection Fan Motor and Retaining Screws	50
5-19 Self Clean Temperature Sensor Removal	51
5-20 Rotisserie Motor and Retaining Screws	52
5-21 Catalyst Insert – Removal	53
5-22 Front Door, Outer Glass Removal Position	54
5-23 Front Door, Middle Glass Pane Removal	55
5-24 Front Door, Interior Glass Pane Removal	56
5-25 Door Hinge Removal	57
6-1 Main Electronic Layout	66
6-2 Display Electronic Layout	66

Master Chef Ovens - List of Tables

2-1 Summary of Model Numbers	
4-1 Cooling Fan Specifications	24
4-2 Heater Element Specifications	25
4-3 Heater Element Operation	25
4-4 Automatic Safety Shutdown Durations	26
5-1 Self Clean Temperature Sensor Resistance Values	52
6-1 Service Mode Navigation (1 of 2)	60
6-2 Service Mode Navigation (2 of 2)	61
6-3 Programming Mode Navigation	63
6-4 Summary of Fault Codes	65

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1.0 Construction and Design

1.1 Summary of Model Numbers

Model Number	Oven Type	Self Clean Mode	Master Chef Menu System
H394B	Single	-	-
H395B	Single	-	Yes
H395BP	Single	Yes	Yes
H396B	Single	-	Yes
H396BP	Single	Yes	Yes
H397B2	Double	-	Yes
H397BP2	Double	Yes	Yes
H398B2	Double	-	Yes
H398BP2	Double	Yes	Yes

 Table 1-1: Summary of Model Numbers

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1.2 Appliance Overview

1.2.1 Appliance Overview - Single Ovens (Typical)



Figure 1-1: Overview of Single Oven

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1.1.2 Appliance Overview – Double Oven (Typical)



Figure 1-2: Overview of Double Oven

1.3 Overview of User Controls

1.3.1 Single Oven Controls



Figure 1-3: Overview of Single Oven Controls

1.3.2 Double Oven Controls



Figure 1-4: Overview of Double Oven Controls

1.4 Dimensions

1.4.1 Dimensions – Single Oven



Figure 1-5: Dimensions – Single Oven

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Figure 1-6: Dimensions – Double Oven

1.5 Components Overview



1.5.1 Component Overview – Single Oven, w/o Master Chef Menu

Figure 1-7: Component Overview – Single Oven without Master Chef Menu

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1.5.2 Component Overview – Single Oven, with Master Chef Menu





1.5.3 Component Overview – Double Oven, without Self Clean

Figure 1–9: Component Overview – Double Oven, without Self Clean

Component Overview – Double Oven, without Self Clean

1 2 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 112 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(2R12) (2R14) (2M2/2) (4R30) (3F1) (2M2/1) (1R12) (1R12) (1R14) (1M2/2) (1M15, 2M15) (1R30) (2T1) (3T1) (1R10) (2T1) (3T1) (1N1) (1F1) (X3/1) (1M2/1) (1M1, 1) (1M2/1) (1M1, 1) (1M2/1) (1M1, 1) (1M2/1) (1M1, 1) (1M2/1) (1M2	Lower Oven - Lower Heating Element Lower Oven - Convection Heating Element Lower Oven - Cavity Temperature Sensor Lower Oven - Hi-Limit Cutoff Lower Oven - Cooling Fan Upper Oven - Lower Heating Element Upper Oven - Convection Heating Element Upper Oven - Convection Fan Rotisserie Motors Upper Oven - Cavity Temperature Sensor Upper Oven - Light Transformer Lower Oven - Light Transformer Main Electronic Unit Upper Oven - Hi-Limit Cutoff Terminal Block Upper Oven - Relay Lower Oven - Relay Lower Oven - Relay Child Safety Switch Interference Suppression Capacitor Transformer Upper Oven - Broiler Heating Element Upper Oven - Broiler Heating Element Upper Oven - Light Assembly Upper Oven - Light Assembly Upper Oven - Halogen Bulb Upper Oven - Roast Probe Lower Oven - Roast Probe
	()	
31	(2S24)	Lower Oven - Door Switch
32	(2R13)	Lower Oven - Upper Heating Element
33	(2R15)	Lower Oven - Broiler Heating Element
34		Lower Oven - Halogen Bulb
35	(2X5/8)	Lower Oven - Roast Probe Connection
36	(3H3/1, 4H3/1)	Lower Oven - Light Assembly
37	(5R30)	Lower Oven - Roast Probe



1.5.4 Component Overview – Double Oven, with Self Clean

Figure 1-10: Component Overview – Double Oven, with Self Clean

Component Overview – Double Oven, with Self Clean

2 (2R14) Lower Oven Convection Heating Element 3 (2M2/2) Lower Oven Convity Temperature Sensor 5 (3F1) Lower Oven Hi-Limit Cutoff 6 (4F1) Lower Oven Hi-Limit Cutoff (Self Clean) 7 (6R30) Lower Oven Interlock Switch 10 (2M21) Lower Oven Cooling Fan 9 (3S60) Lower Oven Convection Kotor 11 (1R12) Upper Oven Convection Heating Element 12 (1R14) Upper Oven Convection Fan 13 (1M2/2) Upper Oven Convection Fan 14 (1M15, 2M15) Upper Oven Coalight Transformer 16 (2T1) Upper Oven Light Transformer 17 (3R30) Upper Oven Catalyst Temperature Sensor 19 (1N1) Main Electronic 10 (1N2) Upper Oven Hi-Limit Cutoff 21 (1S60) Upper Oven Hi-Limit Cutoff 21 (1S60) Upper Oven Nealay 22 (2F1) Upper Oven Relay 23 (1M23) Upper Oven Relay 24 (X1) Main Teminal Block 25<	1	(2R12)	Lower Oven Lower Heating Element
4 (4R30) Lower Oven Cavity Temperature Sensor 5 (3F1) Lower Oven Hi-Limit Cutoff 6 (4F1) Lower Oven Hi-Limit Cutoff (Self Clean) 7 (6R30) Lower Oven Catalyst Temperature Sensor 8 (2M21) Lower Oven Interlock Switch 10 (2M23) Lower Oven Door Lock Motor 11 (1R12) Upper Oven Convection Heating Element 13 (1M2/2) Upper Oven Convection Fan 14 (1M15, 2M15) Upper Oven Cavity Temperature 16 (2T1) Upper Oven Catalyst Temperature 16 (2T1) Upper Oven Catalyst Temperature Sensor 18 (3R30) Upper Oven Hight Transformer 18 (3R30) Upper Oven Hight Transformer 18 (3R30) Upper Oven Hight Cutoff 19 (1N1) Main Electronic 20 (1F1) Upper Oven Hight Cutoff 21 (1S60) Upper Oven Look Motor 23 (1M23) Upper Oven Relay 24 (X3/1) Main Terminal Block 25 (1K1) Upper Oven Relay <td>2</td> <td></td> <td>Lower Oven Convection Heating Element</td>	2		Lower Oven Convection Heating Element
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6 (4F1) Lower Oven Hi-Limit Cutoff (Self Clean) 7 (6R30) Lower Oven Catalyst Temperature Sensor 8 (2M2/1) Lower Oven Cooling Fan 9 (3S60) Lower Oven Interlock Switch 10 (2M23) Lower Oven Loover Heating Element 11 (1R12) Upper Oven Convection Fan 12 (1R14) Upper Oven Convection Fan 14 (1M15, 2M15) Upper Oven Rotisserie Motors (2) 15 (1R30) Upper Oven Cavity Temperature 16 (2T1) Upper Oven Catalyst Temperature Sensor 19 (1N1) Main Electronic 20 (1F1) Upper Oven Hi-Limit Cutoff 21 (1S60) Upper Oven Interlock Switch 22 (2F1) Upper Oven Mi-Limit Cutoff (Self Clean) 23 (1M23) Upper Oven Relay 24 (2F1) Upper Oven Relay 27 (2K1) Lower Oven Relay 28 (1M2/1) Upper Oven Coling Fan 26 (1K1) Upper Oven Relay 27 (2K1) Lower Oven Relay 28 (1S1)			
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13(1M2/2) Upper Oven Convection Fan14(1M15, 2M15)Upper Oven Rotisserie Motors (2)15(1R30)Upper Oven Cavity Temperature16(2T1)Upper Oven Light Transformer17(3T1)Lower Oven Light Transformer18(3R30)Upper Oven Catalyst Temperature Sensor19(1N1)Main Electronic20(1F1)Upper Oven Hi-Limit Cutoff21(1S60)Upper Oven Hi-Limit Cutoff (Self Clean)23(1M23)Upper Oven Door Lock Motor24(X3/1)Main Terminal Block25(1M21)Upper Oven Relay26(1K1)Upper Oven Relay27(2K1)Lower Oven Relay28(S1)Main Child Safety Switch29(Z2)Main Interference Capacitor30(1T1)Transformer31(2S60)Upper Oven Interlock Switch32(1S24)Upper Oven Interlock Switch33(1A1, 2A1)Display Electronics34(1R15)Upper Oven Light Assembly37Upper Oven Halogen Bulb38(1X5/8)Connector Upper Oven Temperature Sensor Probe39(2R30)Upper Oven Interlock Switch41(4S60)Lower Oven Interlock Switch42(2R13)Lower Oven Interlock Switch43(2R13)Upper Oven Goor Switch44Lower Oven Interlock Switch45(2K5/8)Connector Upper Oven Temperature Sensor Probe46(3H3/1, 4H3/1)			
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46 (3H3/1, 4H3/1) Lower Oven Light Assembly	44		Lower Oven Halogen Bulb
	45		
47 (5R30) Lower Oven Temperature Sensor Probe			
	47	(5R30)	Lower Oven Temperature Sensor Probe

2.0 Installation

This section only covers partial installation information.

For complete installation procedures refer to the Miele Installation Instructions Manual, or model specific Operating Manual.



Figure 2-1: Miele Installation Instructions Manual

2.1 Electrical Connection

2.1.1 Electrical Connection – Operational



Figure 2-2: Electrical Connection – Operation

2.1.2 Electrical Connection – Demo / Showrooms

For demonstration purposes the oven can be connected to 120 VAC. With this connection the appliance appears to operate, however heating is not activated. This allows features such as Master Chef to be demonstrated to customers.



Figure 2-3: Electrical Connection – Demo / Showroom

2.2 Installation Guide

A single page Installation Guide is included with each oven.





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3.0 Commission and Operation

3.1 General Operation

To select a program:

- 1. Touch the "ON" ("ON/OFF" on double ovens) control.
- 2. Select the desired function (example: BAKE)
- 3. Select the desired specific operation from the sub-menu (example: CONVECTION BAKE)
- 4. Select the temperature (example: 425°)

3.2 Turning off the oven

To turn off the oven, touch the "OFF" ("ON/OFF" on double ovens) control. The oven will turn off and the time of day will appear in the display.

3.3 Power Failures

In the event the oven loses power during operation a "Power Failure" message is displayed as shown in 3-1.

11:23 PM

Power Failure

Figure 3-1: "Power Failure" message displayed

This message is displayed to advise that the incoming power was disrupted (power failure, etc.). It does not require any type of technical service.

The "Power Failure" message can be cleared by performing the following:

- 1. Turn the oven on by touching the ON/OFF ("ON/OFF" on double ovens) control.
- 2. Turn the oven off by touching the ON/OFF ("ON/OFF" on double ovens) control.

The message is clears.

3.4 Special Features

3.4.1 Self Clean Function (P / Self Clean Models Only)

When the Self Clean function is selected, the oven is heated to very high temperatures to burn off any residue inside the oven cavity.

The duration of the Self Clean function is not a timed function and is based on the amount of soiling inside the oven cavity. Total time will vary depending on the condition of the oven interior.

Once the Self Clean Program completes and the oven cools, wipe the interior clean with a damp cloth to remove any remaining residue.

3.4.2 Door Lock (P / Self Clean Models Only)

The door lock is operated via a motorized control. During the Self Clean function the door automatically locks after one (1) minute. The door remains locked until the Self Clean process has completed and the oven temperature has dropped below 392° F (200° C).

If the Self Clean function is accidentally started, shut off the oven and wait for the oven temperature to drop and for the door lock to release. This may take several minutes.

The door lock can be activated while in the Service Mode. See section 6, Fault Diagnosis.

3.4.3 Master Chef (all Models except H394)

The "Master Chef" menu feature is designed to ease operation and improve cooking results. This feature uses a list of selectable preset functions for commonly cooked foods. Users can select the type of food from a menu and simply reply to a few basic inputs (i.e. weight, etc.) The oven performs the necessary functions automatically to ensure a perfectly cooked meal.

3.4.4 Child Safety Lock (All Models)

The child safety lock is used to prevent children from operating the oven or to conserve standby power when the oven will not be used for an extended period of time.



To activate the child safety lock:

- 1. Slide the lock to position "O".
- 2. The oven cannot be operated & the clock will not be displayed.

To deactivate the child safety lock:

- 1. Slide the lock to position "I".
- 2. The oven can then be operated & the clock will be displayed.

Warning

Using the Child Safety Switch does <u>NOT</u> disconnect all sources of power within the oven. To safely disconnect power during service shut off the main supply via the circuit breaker.

Note

For further detailed appliance operation, refer to the Operating Manual for that model.

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4.0 Description of Function



Figure 4-1: Airflow Paths (Double Oven Shown)

4.1 Cooling Fan – Specifications

Power Requirement	120V / 60 Hz
Wattage – Normal Speed	23 W
Wattage – High Speed (Self Cleaning)	65W

 Table 4-1: Cooling Fan Specifications

4.2 Cooling Air Intake

The Cooling Fan (Figure 4-1, Item 9) takes in the air through the opening below the Door. The air flows between the Outer and Interior Glass Panes and into the area between the Housing and Upper Holding Plate Insulation Mat.

4.3 Vapor Intake

The Cooling Fan takes in the vapor through the Vapor Outlet (Figure 4-1, Item 8) and the Exhaust Duct (Figure 4-1, Item 10).

4.4 Cooling Air Path

The Cooling Fan moves the air and vapor into the air vents (Figure 4-1, Item 7) and through the opening between the Bottom Plate and the Lower Insulation Mat (Figure 4-1, Item 5).

4.5 Cooling Air Exit

The cooling air exits via the opening between the vent strip and bottom plate (Figure 4-1, Item 4).

4.6 Door Contact Switch (1S24 & 2S24)

The Door switch monitors the opening and closing of the door.

If the door is opened during cooking, the Convection Fan and Heating Elements for the respective oven are turned off.

4.7 Heating Elements

Each oven cavity is equipped with 4 heating elements:

Heater	Voltage	Wattage
R12 – Lower Element	240V	1851W
R13 – Upper Element	240V	1960W
R14 – Convection	240V	2722W
R15 – Broil Element	240V	2178W

 Table 4-2: Heating Element Specifications

4.7.1 Heating Element - Activation

Elements are activated based on the program mode selected.

Program Mode	Bottom	Тор	Convection	Broil	Rapid Heat
Bake	Х				Х
Convection Bake			Х		Х
Top / Bottom Heat	Х	Х		х	Х
Browning		Х		Х	
Intensive	Х		Х		Х
Auto Roast			Х		Х
Convection Roast			х		Х
Top / Bottom Roast	Х	Х		х	х
Broil				Х	
Maxi Broil		Х		Х	
Rotisserie		Х		Х	
Convection Broil				х	
Dehydration			Х		
Proof			Х		
Defrost			Х		
Self Clean	Х	Х	Х	Х	
Sabbath Baking					

 Table 4-3: Heater Element Operation

4.8

Automatic / Safety Shutdown

Each program has a maximum operation time. When the maximum operation time is reached, the oven turns itself off.

Program	Time-Out (in hours)
Bake	12
Convection Bake	12
Top / Bottom Heat	12
Browning	12
Intensive	6
Auto Roast	12
Convection Roast	12
Top / Bottom Roast	12
Broil	6
Maxi Broil	6
Rotisserie	6
Convection Broil	6
Dehydration	24
Proof	24
Defrost	24
Self Clean	N/A
Sabbath Baking	72

Table 4-4: Automatic Safety Shutdown durations

4.9 Cavity Temperature Sensor (1R30 & 4R30)

The Oven Cavity Temperature Sensor is located in the guide tube of the Upper Heating Elements (Figure 4-2, Item 1). The Sensor sends a signal back to the Main Electronic. The oven cavity temperature is calculated and displayed via the Display Electronic.



Figure 4-2: Upper Heater Element Cavity Temperature Sensor

4.10 Roast Probe (2R30 & 5R30) (All Models Except H394) The Roast Probe can be used to monitor the core temperature of meat and poultry. The long pointed end of the probe is inserted into the thickest portion of the meat. The short end of the probe is inserted into the roast probe socket located on the right side of the oven cavity. For optimum

cooking results ensure the probe does not contact any bones within the

Figure 4-3: Roast Probe

meat or poultry.

4.11 Self Clean Temperature Sensor (3R30 & 6R30) (P / Self Clean Models Only)

The Self Clean Temperature Sensor is located in the Vapor Outlet (above the Catalyst) and monitors the oven temperature during the Self Clean Mode. Refer to Figure 4-4.





4.12 Thermal Cut-Outs (1F1 & 3F1)

Each separate oven cavity is equipped with a High Temperature Thermal Cut-Out. The cut out is designed to interrupt the power in should the temperature exceed 680° F (360° C) during operation modes.

4.12.1 Thermal Cut-Outs (2F1 & 4F1) (P / Self Clean Models Only)

Each separate oven cavity is equipped with a High Temperature Thermal Cut-Out designed to interrupt the power should the temperature exceeds 968°F (520°C) during the Self Clean mode.

4.13 Convection Fan (1M2/1 & 2M2/1)

The Convection Fan is mounted to the rear wall of the oven. It pressurizes a large volume of air in the small cavity located in the rear wall of the oven to produce true convection.



Figure 4-5: Convection Airflow

4.14 Rotisserie Motors (1M15 & 2M15)

Two 120 VAC Rotisserie Motor are mounted to the rear wall of the oven. These motors provide drive for the Rotisserie Shafts.

4.15 Oven Cavity Lights

There are two Oven Cavity Lights in each oven. Two Transformers mounted in the top of the oven power the lights.

Lamp Voltage	12V
Lamp Output	10W
4.16 Automatic Door Lock (Self Clean Models Only)

When the Self-Cleaning program begins, the Door Lock Motor activates and locks the door. The door cannot be opened until the temperature drops below $398^{\circ}F$ (200° C).



Figure 4-6: Door Locking Components (Self Clean Models Only)

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5.0 Service and Maintenance

5.1 Cleaning & Care Information

5.1.1 PerfectClean

PerfectClean® is a smooth, nonstick surface that cleans up easily with a sponge. The following items are coated with the exclusive Miele "PerfectClean®" finish:

- Oven Walls
- Roasting Pans
- Anti-Splash Tray
- Oven Runners

Do not clean PerfectClean items in a dishwasher. Some detergents contain compounds that could damage the finish.

To properly clean the surfaces, use a sponge and a solution of hot water and liquid dish soap for cleaning. Do not use abrasive cleaners, ceramic cleaners, metal scourers, or oven cleaners.

After cleaning, rinse thoroughly with water. The water should run off the surface easily. Any residue will hinder this effect. Stubborn baked on grease may need to be soaked first to loosen deposits.

Clean up all spills as soon as possible to prevent stains. Spilled fruit juices can permanently discolor surfaces; however the discoloration does not hinder the efficiency of the finish.

5.1.2 Manually Cleaning the Oven Cavity

Danger

Allow the oven to cool before cleaning.

To make cleaning easier

- Remove the oven door
- Remove the runners
- Lower the upper heating element
- Clean the oven surfaces with a solution of hot water and liquid dish soap and a sponge.
- Do not use abrasive cleaning agents, hard brushes, metal scouring pads, steel wool, knives or other abrasive materials.
- Do not use oven sprays on any part of this oven.
- Dry surfaces before reassembly.



5.2 Front Door – Removal

Important

DO NOT hold the door by the handle. When handling the door it should be gripped firmly on the sides (glass and frame).

- 1. Open the door fully.
- 2. Flip up the locking clamps on each door hinge.
- 3. Slowly shut the door until the protruding clamps stop the movement. Pull the door upward to remove.



Figure 5-1: Door Hinge – Locking Tabs

5.3

Runners – Removal



Figure 5-2: Removing The Runners From The Oven Cavity.

- 1. Turn the two thumbscrews, (Figure 5-2) counterclockwise and remove.
- 2. Pull the runners away from the oven wall to remove. (Figure 5-2)

5.4 Halogen Light Bulb - Replacement

- 1. Remove the runners.
- 2. Spread a dishtowel on the oven floor to protect the enamel, in case the light cover falls.
- 3. Insert the supplied lid opener between the light cover and the metal frame of the light along the edge closest to the oven door.



Figure5-3: Prying The Light Cover Off

Halogen Light Bulb – Replacement (Continued)

- 4. Carefully pry the light cover out of the metal frame (Figure 5-3).
- 5. Slide the light cover out.



Figure 5-4: Sliding light cover from the clamps

Note

Do not bend the metal clamps. Bending the clamps could damage the clamps and reflector.

6. Replace the halogen bulb.

Note

- Only use a 12 V, 10 W, 572°F (300°C) heat resistant, Osram, type w818 bulb.
- Do not touch the new light bulb with your fingers; touching the bulb will reduce its life.
- 7. Put the light cover back in place with the notch to the rear of the metal clamps.
- 8. Press the light cover in to the metal frame.
- 9. Re-Install the runners.

5.5 Removing the Appliance for Service

- 1. Turn off power to the oven via the circuit breaker.
- 2. Remove Front Door(s) from the oven (Section 5.2)
- 3. Remove the Installation Screws.
- 4. Carefully slide the oven out from the cabinets.
- 5. Lift the oven to remove from the cabinets.
- 6. Disconnect the electrical connection.

Caution

Use adequate manpower to remove the oven. Ovens can weigh more than expected.

Note

Ensure the entire bottom of the oven is evenly supported; or the bottom of the oven can be damaged

5.6 Control Panel - Removal

- 1. Refer to Figure 5-5.
- 2. Remove the Front Doors from the oven. (Section 5.2)
- 3. Remove the Installation Screws.
- 4. Carefully move the oven outward about 3 inches.
- 5. Remove the five screws from the underside of the control panel (Item 2).
- 6. Hold the Control Panel in place and remove the three screws from the top of the oven (Item 1).
- 7. Carefully pull away the control panel from the oven, as the connected wiring is short in length.

5.7 Safety Cover – Removal

- 1. Refer to Figure 5-5.
- 2. Remove the Control Panel (Section 5.2).
- 3. Move the oven outward to allow access to the Safety Cover Retaining Screws (Item 3).
- 4. Remove the four screws (Item 3).
- 5. Pull the Safety Cover away from the oven.





Figure 5-5: Control Panel, Safety Panel and Top Cover Retaining Screws

5.8 Top Cover - Removal

- 1. Remove the Front Doors (Section 5.2)
- 2. Remove the oven (Section 5.5)
- 3. Remove the Control Panel (Section 5.6)
- 4. Remove the Safety Cover (Section 5.7)
- 5. Refer to Figure 5-5, Remove the Top Cover Side Retaining Screws (Item 4) and the Top Cover Rear Retaining Screws (Item5)
- 6. Lift the cover from the oven.

5.9 Upper Back Panel (Double Ovens) - Removal

- 1. Remove the Front Doors (Section 5.2)
- 2. Remove the oven (Section 5.5)
- 3. Remove the Control Panel (Section 5.6)
- 4. Remove the Safety Cover (Section 5.7)
- 5. Remove the Top Cover (Section 5.8)
- 6. Remove the twelve Rear Retaining Screws.
- 7. Remove the two Side Retaining Screws.
- 8. Slide the panel down while pulling it from the oven.

5.10 Lower (or Single Oven) Back Panel - Removal

- 1. Remove the Front Doors (Section 5.2)
- 2. Remove the oven (Section 5.5)
- 3. Remove the eighteen Rear Retaining Screws.
- 4. Remove the two Side Retaining Screws.
- 5. Slide the panel upward while pulling it from the oven.

5.11 Upper (Double Oven) Side Covers - Removal

- 1. Remove the Front Doors (Section 5.2)
- 2. Remove the oven (Section 5.5)
- 3. Remove the Control Panel (Section 5.6)
- 4. Remove the Safety Cover (Section 5.7)
- 5. Remove the Top Cover (Section 5.8)
- 6. Remove the Upper Back Panel (Section 5.9)
- 7. Remove the Side Cover Retaining Screws.
- 8. Lift the panel from the oven.

5.12 Lower (or Single Oven) Side Covers - Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Lower Back Panel (Section 5.10).
- 4. Remove the Side Cover Retaining Screws.
- 5. Lift the panel from the oven.

5.13 Air Shield Panel (Double Ovens) - Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven for service (Section 5.5).
- 3. Remove the Upper Back Panel (Section 5.9)
- 4. Remove the Lower Back Panel (Section 5.10).
- 5. Refer to Figure 5-6. Remove the Retaining Screws (Item 2)
- 6. Remove the Air Shield Panel (Item 1)



Figure 5-6: Air Shield Panel

5.14 Upper (or Single Oven) Cooling Fan - Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Upper Back Panel (Section 5.9)
- 4. Refer to Figure 5-7. Unplug the electrical connections to the Cooling Fan (Item 1).
- 5. Remove the Vent Strip Fastening Screws (Items 2 & 3).
- 6. Remove Vent Strip(s) as necessary.
- 7. Remove the Cooling Fan Fastening Screws.
- 8. Remove the Cooling Fan.



Figure 5-7: Upper (or Single Oven) Cooling Fan - Removal

5.15 Lower C

Lower Oven Cooling Fan (Double Oven) -Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Lower Back Panel (Section 5.10)
- 4. Refer to Figure 5-8. Unplug the electrical connections to the Cooling Fan (Item1).
- 5. Remove the Vent Strip Fastening Screws (Items 2 & 3).
- 6. Remove Vent Strip(s) as necessary.
- 7. Remove the Cooling Fan Fastening Screws.
- 8. Remove the Cooling Fan.



Figure 5-8: Lower Oven Cooling Fan - Removal

5.16 Door Latch - Manual Release (P / Self Clean Models)

Important

Ensure the oven temperature is below 392°F (200°C), and attempt to unlock the door using the Service Mode (refer to Section 6 Fault Diagnosis) before performing this procedure.

Refer to Figure 5-9

- 1. Bend the end of a stiff wire into a 4 hook as shown.
- 2. Carefully insert wire between door and control panel.

Caution

Ensure the wire does not contact the coated surfaced, or irreversible damages to the surface can result.

3. Pull the door latch by moving the wire horizontally to the right.



Figure 5-9: Manual Release Of The Door Latch (Self Clean Models Only)

Technical Information

5.17 Upper Door Latch Drive Motor and Door Lock Switch (1M23 & 1S60) (Double Ovens with Self Clean) -Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Upper Back Panel (Section 5.9)
- 4. Refer to Figure 5-10. Unplug the electrical connections to the Door Lock Motor (Item 3).
- 5. Remove the Door Latch Drive Screws (Item 2).
- 6. Refer to Figure 5-11. Loosen the Cable Nut (Item1).
- 7. Remove the Cable from the mounting bracket.

Note

When the Cable tension is released, the Oven Door Locks.



Figure 5-10: Door Latch Drive Motor Assembly



Figure 5-11: Door Latch and Cable

5.18 Lower Door Latch Drive Motor and Door Lock Switch (2M23 & 3S60) (Double Ovens with Self Clean) -Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Upper Back Panel (Section 5.9)
- 4. Remove the Lower Back Panel (Section 5.10)
- 5. Refer to Figure 5-10. Unplug the electrical connections to the Door Lock Drive Motor (Item 3).
- 6. Remove the Door Latch Drive Fastening Screws (Item 2).
- 7. Refer to Figure 5-11. Loosen the Cable Nut (Item 1).
- 8. Remove the Cable from the mounting bracket.

Note

When the Cable tension is released, the Oven Door Locks.

Technical Information

5.19 Upper (or Single Oven) Door Latch, Door Lock Switch and Door Close Switch (2S60 & 1S24) (Self Clean Models) – Access

- 1. Remove the Front Doors (Section 5.2)
- 2. Remove the oven (Section 5.5)
- 3. Remove the Control Panel (Section 5.6)
- 4. Remove the Top Cover (Section 5.8)
- 5. Refer to Figure 5-12. Remove the four Screws (Item 1) that secure the Upper Housing Assembly to the Cavity Assembly.



Figure 5-12: Upper (or Single Oven) Housing Retaining Screws

Note

Use caution when lifting the front of Upper Housing, as the wiring is still connected.

Safety Tip

A second person is required to lift the housing <u>or</u> safely secure the housing into a position during Latch, Door Lock Switch and / or Door Close Switch service / replacement.



Figure 5-13 Door Latch Assembly

- 6. Refer to Figure 5-13. Remove the two screws that secure the Latch Assembly to the Cavity Assembly.
- 7. Slightly lift the Upper Housing near the front to access the Latch Assembly, as shown in Figure 5-14.

Service Tip - Upper & Lower Door Close Switch Removal To simplify access to the Door Switch Retaining Tabs, the Right Side Panel can be removed permitting direct access to the underside of the locking tabs.

Technical Information



Figure 5-14: Lifting the front of the Upper Housing to access the Door Lock / Latch Assembly and Door Closed Switch

5.20 Lower Door Latch, Door Lock Switch and Door Close Switch (4S60 & 2S24) (Double Oven P/Self Clean Models) - Access

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Upper Back Panel (Section 5.9)
- 4. Remove the Lower Back Panel (Section 5.10).
- 5. Remove the Air Shield Panel (Section 5.13)
- 6. Refer to Figure 5-13. Remove the two screws that secure the Latch Assembly to the Cavity Assembly.
- 7. From the rear of the oven, reach into the Air Shield Opening to access the Door Lock Switch and Door Closed Switch.

5.21 Oven Cavity Back Panel - Removal

- 1. Remove the Front Door(s) (Section 5.2)
- 2. Refer to Figure 5-15. Remove the four screws from the panel (Item 1).
- 3. Pull the back panel forward to remove from the oven (Item 2).



Figure 5-15: Removing the Oven Cavity Back Panel

Note

When removing the back panel use care not to make contact with the oven interior surfaces. Protect the interior of the oven as necessary.

Technical Information

5.22 Top Heater/Broiler Heating Element (1R13/1R15, 2R13/2R15) - Removal

- 1. Refer to Figure 5-16.
- 2. Remove the Heater Element Retaining Screws (Item 1).
- 3. Remove the Thumb Screw (Item 2).



Figure 5-16: Top Heating Element

- 4. Gently lift the mounting flange upward and move it toward the front of the oven.
- 5. Disconnect the Temperature Sensor Connection (Item 3).
- 6. Remove the Temperature Sensor.
- 7. Disconnect the Heater Element connections.
- 8. Remove the Heater Element.

5.23 Convection Heating Element - Removal (1R14, 2R14)

- 1. Refer to Figure 5-17.
- 2. Remove the Front Doors (Section 5.2).
- 3. Remove the oven (Section 5.5).
- 4. Remove the Oven Cavity Back Panel (Section 5.21)
- 5. Remove the Back Panel (Section 5.9 and / or 5.10)
- 6. Note the position of the electrical connections to the element.
- 7. Unplug the electrical connections from the element.
- 8. Access the oven cavity and Remove the Heating Element Retaining Screws (Item 1).
- 9. Remove the Heating Element.



Figure 5-17: Convection Fan and Heating Element Hardware

Technical Information

5.24 Convection Fan – Removal (1M2/2, 2M2/2)

- 1. Refer to Figure 5-17.
- 2. Remove the Front Doors (Section 5.2).
- 3. Remove the oven (Section 5.5).
- 4. Remove the Back Panel (Section 5.9 and / or 5.10)
- 5. Remove the Oven Cavity Back Panel (Section 5.21)
- 6. Loosen the Fan Blade Nut (Item 2).

Note

The Fan Blade Nut is reverse thread.

- 7. Remove Fan Blade, Washer (Item 3) and Bushing (Item 4).
- 8. Refer to Figure 5-18. Remove the three Retaining Screws.
- 9. Unplug the electrical connection. Remove the component.



Figure 5-18: Convection Fan Motor and Retaining Screws

5.25 Operational Temperature Sensor (1R30 & 4R30) – Removal

Refer to: Top Heater/Broiler Heating Element – Removal (Section 5.22)

5.26 Self Clean Temperature Sensor (3R30 & 6R30) – Removal (P/Self Clean Models)

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Back Panel(s) as necessary (Section 5.9 and /or 5.10)
- 4. Disconnect the electrical connection.
- 5. Refer to Figure 5-19. Move the retaining spring to the side and remove the Sensor (Item 1) from the Catalyst Vapor Outlet .



Figure 5-19: Self Clean Temperature Sensor Removal

5.27 Self Clean Temperature Sensor (3R30 & 6R30) Resistance Value Test

Temperature ⁰ F	Temperature ⁰ C	Resistance (Ohms)
32	0	1000 Ω
68	20	1078 Ω
77	25	1097 Ω
86	30	1117 Ω
122	50	1194 Ω
212	100	1385 Ω
302	150	1573 Ω
392	200	1758 Ω
482	250	1941 Ω
572	300	2120 Ω

Table 5-1: Self Clean Temperature Sensor resistance values at various temperatures.

5.28 Rotisserie Motors – Removal (1M15, 2M15)

- 1. Remove the Front Doors (Section 5.2).
- 2. Remove the oven (Section 5.5).
- 3. Remove the Back Panel (Section 5.9 and / or 5.10)
- 4. Refer to Figure 5-20. Remove the Retaining Screws.
- 5. Unplug the electrical connections to the Motor(s).
- 6. Remove the component.



Figure 5-20: Rotisserie Motor and Retaining Screws

5.29 Catalyst Insert (P/Self Clean Models) - Removal

- 1. Remove the Front Doors (Section 5.2).
- 2. Refer to Figure 5-21
- 3. Loosen the Upper Heating Element Knurled Nut (Item 1)
- 4. Carefully pull the Upper Heating Element downwards.
- 5. Loosen the Retaining Screws on the Catalyst Retaining Plate (Item 2).

Note

Protect the floor of the oven when removing the Catalyst Retaining Plate. The Catalyst Insert may fall from the cavity opening. Be prepared to remove the insert.

- 6. Remove the Catalyst Retaining Plate to access the Catalyst Insert.
- 7. Remove the Catalyst Insert from the opening.



Figure 5-21: Catalyst Insert - Removal

Technical Information





Figure 5-22: Front Door, Outer Glass Pane Removal

- 1. Remove the Front Door. (Section 5.2)
- 2. Refer to Figure 22. Position the Front Door Glass Area (outer glass facing down) on a flat work surface.
- 3. Remove the Handle Retaining Screws (Item 1).
- 4. Remove Handle (Item 3).
- 5. Remove the Outer Glass Pane Retaining Screws (Item 5).
- 6. Remove Outer Glass Pane (Item 6)

Note

When installing the outer glass pane, position the glass pane correctly over the spacer brushings (Figure 5-22 Item 2).

Technical Information

5.31 Front Door, Middle Glass Pane – Removal

- 1. Remove the Front Door (Section 5.2)
- 2. Remove the Front Door Outer Glass Pane (Section 5.30)
- 3. Refer to Figure 5-23.
- 4. Remove the Retaining Bracket Screws (Item 2).
- 5. Remove Retaining Bracket.
- 6. Remove Middle Glass Pane from the Door Frame (Item 1).



Figure 5-23: Front Door Middle Glass Panel - Removal

5.32 Oven Door, Interior Glass Pane - Removal

- 1. Remove the Front Door (Section 5.2).
- 2. Remove the Front Door Outer Glass Pane (Section 5.30).
- 3. Remove the Front Door Middle Glass Pane (Section 5.31).
- 4. Remove the Spacer Brackets (Item 2).
- 5. Remove Interior Glass Pane (Item 1).



Figure 5-24: Oven Door, Interior Glass Pane - Removal

Note

To avoid cooking vapors from entering the door assembly – ensure the seal remains seated when installing the Interior Glass Pane into the Door Frame Assembly.

5.33 Door Hinge(s) - Removal

- 1. Remove the Front Door (Section 5.2).
- 2. Remove the Front Door Outer Glass Pane (Section 5.30).
- 3. Remove Hinge Fastening Screws (Figure 5-25 Item1
- 4. Remove the Hinge from the Door Frame.
- 5. Repeat for opposite side.



Figure 5-25: Door Hinge Removal



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6.0 Fault Diagnosis

6.1 Service Mode

Initial requirements

- Turn off the oven.
- Close the door(s).

Note

On double ovens the service mode access for the Top Oven and the Bottom Oven is separate – use the appropriate ON/OFF touch control.

- 1. Press and Hold the **CLEAR** touch control.
- 2. Press the **ON (ON/OFF** for double ovens) touch control
- 3. Release the **ON (ON/OFF** for double ovens) touch control and press the **CLEAR** touch control 3 times, holding the third time for 5 seconds

Successful access of the Service Mode is indicated in the display.

The following appears in the display.

Ŷ	SERVICE
	SENSOR TEST
	\triangleright

Navigating through the service programs

Refer to the Service Mode Navigation Charts (Tables 6-1 & 6-2). Press the touch control next to the displayed text to make a selection.

Use the **CLEAR** touch control to back up to the previous menu or cancel a function.



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Service Mode Navigation – Part 1 of 2

	Indicates which oven (upper/lower) s presently in the Service Mode	
INDEX	Displays the version of the main and display electronics	
FAULT INDEX	Retrieve and clear stored fault codes	
To Retrieve the Stored Fault(s) Select " FAULT INDEX " from the main menu, the display shows:		
FAULT INDEX		
FAULT 01		
1. Press the touch control along side "FAULT 01".		
The fault information is displayed (example shown).		
CLEAR FAULTS		
 <u>To Clear the Stored Fault Codes</u> 1. Press the touch control along side "CLEAR FAULTS" 2. Shut the oven of using the ON/OFF touch control. 		
For descriptive information on Fault Codes refer to the Fault Code Summary in section 6.3.		

 Table 6-1: Service Mode Navigation Chart (Part 1 of 2)

Service Mode Navigation – Part 2 of 2

FUNCTION TEST		Cycles on and off, specific components for testing purposes
ALL OFF		COOLING FAN
HEATING ELEMENTS		ROTISSERIE MOTORS
CONVECTION FAN		MORE
ВАСК		BUZZER
INTERIOR LIGHT		DISPLAY
DOOR LOCK		
SENSOR TEST	Checks the status and values of various switches and sensors	
NONE		TEMPERATURE INTERIOR
DOOR SWITCH		TEMPERATURE CATALYST
ROAST PROBE		BUTTON CHECK

 Table 6-2: Service Mode Navigation Chart (Part 1 of 2)

Exiting the Service Mode Press the ON/OFF touch control

6.2 **Programming Mode**

Initial requirements

- Turn off the oven.
- Close the door(s).

Accessing

Service Mode access for the Top Oven and the Bottom Oven is separate – use the appropriate **ON/OFF** touch control.

- 1. Press and Hold the **CLEAR** touch control.
- 2. Press the ON (ON/OFF for double ovens) touch control
- 3. Release the **ON (ON/OFF** for double ovens) touch control button and press the **CLEAR** touch control 5 times, holding the fifth time for 5 seconds.

Successful access of the Programming Mode is indicated in the display.

The following appears in the display.

PROGRAMMING	
	MORE ▷

Navigation

- Refer to the Programming Mode Navigation Chart (Table 6-3).
- Press the touch control next to the displayed text to make a selection.
- Use the CLEAR touch control to back up to the previous menu or cancel a function.

Technical Information

Programming Mode Navigation

LANGUAGE	English	
	German	
	Spanish	
	French	
	Portuguese	
	Size of Clock Display	
CLOCK DISPLAY	12 or 24 Hour Format	
	Clock Display On/Off	
	Programming Time	
	Bake	
	Browning	
	Sabbath Baking	
	Maxi Broil	
TEMPERATURE	Sabbath Surround	
	Convection	
Change Preset	Intensive	
Temperatures	Surround Roast	
remperatures	Rotisserie	
	Surround Bake	
	Auto Roast	
	Broil	
	Defrost	
OVEN LIGHT	OFF – shuts off after 1 minute	
	ON – on during cooking operation	
TEMPERATURE ^⁰ F	Displays in Celsius	
	Displays in Fahrenheit	
	Length of tone	
TONE OPTIONS	Volume of tone	
	Type of tone (beeping, faster etc)	
DISPLAY OPTIONS	Change Brightness	
	Change Contrast	
	H-01 H394B	
VERSION	H-02 H396B	
(MODEL NUMBER)	H-03 H396BP	
	H-04 H398B2	
	H-05 H398BP2	

 Table 6-3:
 Programming Mode Navigation

Programming an Optional Setting

Once you choose the desired setting to reprogram, the display changes and shows the available option(s) available.

- 1. Press the appropriate touch control for the desired option setting,
- 2. Press the touch control next to "OK" to store the value.

Exiting the Program Mode Presses the ON/OFF touch control.

6.3 Fault Code Summary

F 05	Oven Temperature Sensor - Short Circuit
F 06	Oven Temperature Sensor - Open Circuit
F 07	Catalyst Temperature Sensor - Short Circuit
F 09	Catalyst Temperature Sensor - Open Circuit
F 23	Pre-Heat Self Clean Fault (460 ⁰ was not reached in the allotted time)
F 32	Door Lock not locking during Self Clean mode. (Fault is stored after 20 seconds if the door lock position switch has not changed state)
F 33	Door Lock not unlocking after Self Clean mode. (Fault is stored after 20 seconds if the door lock position switch has not changed state)
F 43	Programming Fault - model number not programmed correctly
F 44	Programming fault - model number not programmed correctly
F 54	Roast Probe - short circuit
F 55	The oven did not automatically turn off after a specified time of operation (dependant on the oven function being used) Check Safety cut-outs
F 60	The temperature of the electronic is too high . Check for possible air flow restriction.

 Table 6-4:
 Summary of Fault Codes

6.4 Electronic Boards – Layout

6.4.1 Main Electronic



Figure 6-1: Main Electronic Layout

6.4.2 Display Electronics



Figure 6-2: Display Electronics Layout



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