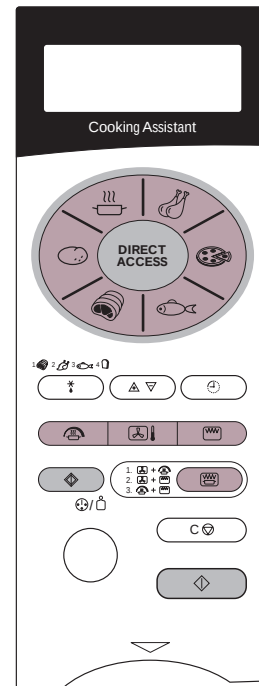
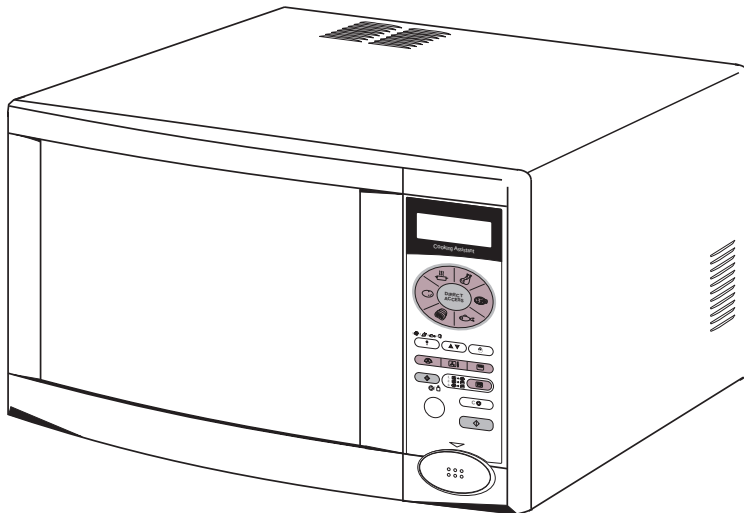


SERVICE MANUAL

MICROWAVE OVEN WITH CONVECTION AND GRILL

EM-D7750ECO



Product Code No.

EM-D7750ECO

43748906

FOREWORD

Read this manual carefully, especially precaution on microwave energy, and follow the procedure strictly. Careless servicing and testing may expose yourself to the microwave energy leakage.

PRECAUTIONS

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not operate or allow the oven to be operated with the door open.
- (b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs if necessary:
 - (1) Interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
- (c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave-guide or transmission line, and cavity for proper alignment, integrity, and connections.
- (d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.

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CAUTION

MICROWAVE ENERGY

PERSONNEL SHOULD NOT BE EXPOSED TO THE MICROWAVE ENERGY WHICH MAY RADIATE FROM THE MAGNETRON OR OTHER MICROWAVE GENERATING DEVICE IF IT IS IMPROPERLY USED OR CONNECTED. ALL INPUT AND OUTPUT MICROWAVE CONNECTIONS, WAVE GUIDES, FLANGES, AND GASKETS MUST BE SECURE. NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED. NEVER LOOK INTO AN OPEN WAVE GUIDE OR ANTENNA WHILE THE DEVICE IS ENERGISED.

1. ADJUSTMENT PROCEDURES

TO AVOID POSSIBLE EXPOSURE TO MICRO-WAVE ENERGY LEAKAGE, THE FOLLOWING ADJUSTMENT OF THE INTERLOCK SWITCHES SHOULD BE MADE ONLY BY AUTHORISED SERVICE PERSONNEL

PRIMARY INTERLOCK SWITCH, DOOR SENSING SWITCH AND INTERLOCK MONITOR SWITCH
ADJUSTMENT

(Figure 1)

- (1) Loosen 2 screws securing the lever stopper.
- (2) Adjust the lever stopper position so that it is pushed up and pull forward until there is about zero gap.
 - 2-1. Between the lever and the switch body on the door sensing switch.
 - 2-2. Between the lever and the switch body on the interlock monitor switch.
 - 2-3. Between the latch lever and the switch body on the primary interlock switch.
- (3) Tighten the lever stopper screws securely.
- (4) Make sure the interlock monitor is closed after the primary interlock switch opens when the door is opened very slowly, according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 9.
- (5) Make sure the interlock monitor is open before the primary interlock and secondary interlock switches close when the door is closed very slowly, according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 9.
- (6) Make sure the microwave energy leakage is below the limit of the regulation ($5\text{mW}/\text{cm}^2$) when measured with a detector. (All service adjustments must be made for minimum energy leakage readings.)

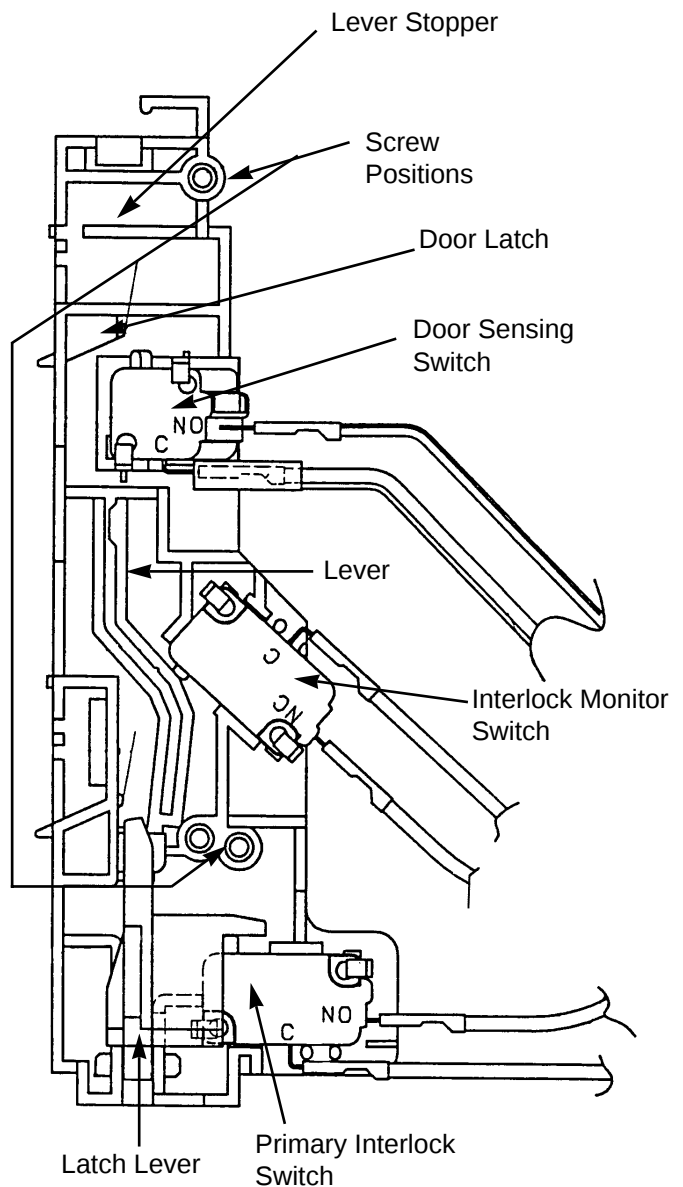


Figure 1

2. SPECIFICATIONS - EM-D7750

Rated Power Consumption.....	Micro. 1450+15%W Conv. 1200+5/-10%W Grill 1100+5/-10%W Dual 2550+15%W (After 15mins.)
Microwave Output.....	900W
Frequency.....	2,450MHz $\pm$ 50MHz
Power Supply.....	230V,50Hz
Rated Current.....	6.45 $\pm$ 10% Amps Micro 5.3 $\pm$ 10% Amps Conv. 4.95 $\pm$ 10% Amps Grill 11.5 $\pm$ 10% Amps Dual (After 15mins.)
Safety Devices.....	Thermal Protector for Magnetron and Cavity, Open at 122°C. Thermal Protector for Heater, Open at 150°C. Thermal Protector for Convection, Open at 122°C Fuse (Cartridge Type 8A) Primary Interlock Switch Door Sensing Switch Interlock Monitor Switch
Timer.....	Electronic Digital Micro,90min Convection, 90 mins Grill, 90 mins
Oven Temperature Control.....	Convection, 40°C-250°C Dual, 100°C-250°C
Overall Dimensions.....	490(W)x445(D)x322(H)mm
Oven Cavity Size.....	304(W)x305(D)x248(H)mm
Turntable Diameter.....	262mm
Net Weight.....	Approx. 19Kg.

3. POWER OUTPUT MEASUREMENT

- (1) Prepare 1000cc tap water in a wide mouthed Pyrex container.
- (2) Stir thoroughly and note initial water temperature T1 (°C).
- (3) Place container in centre of oven and operate for 60 seconds at full power.
- (4) Remove container, stir thoroughly and note final water temperature T2 (°C).
- (5) Calculate power output= 70 x Temp. rise (T2-T1).

NOTE: This is only an approximate test method, not IEC705 test method to which the microwave oven has been tested and rated.

4. PRECAUTIONS AND REPAIR SERVICE TIPS PRELIMINARY

A. SINCE NEARLY 4,000 VOLTS EXIST IN SOME CIRCUITS OF THIS MICROWAVE OVEN, REPAIRS SHOULD BE CARRIED OUT WITH GREAT CARE

B. TO AVOID POSSIBLE EXPOSURE TO MICROWAVE ENERGY LEAKAGE, THE FOLLOWING PRECAUTIONS MUST BE TAKEN BEFORE SERVICING.

(1) Before the power is applied.

- (a) Open and close door several times to make sure the primary interlock switch, the door sensing switch, and the interlock monitor switch operate properly. (Listen for the clicking sound from switches). Make sure the interlock monitor switch is closed after the primary interlock switch is opened, when the door is opened. (See pages 1 and 9).
- (b) Make sure the perforated screen and the dielectric choke of the door are correctly mounted.

(2) After the power is applied.

- (a) Open and close the door to see if the interlock mechanism operates properly.
- (b) Check microwave energy leakage with a leakage detector and confirm the energy leakage is below 5mW/cm².

(3) Do not operate the unit until it is completely repaired, if any of the following conditions exists.

- (a) Door does not close firmly against the cavity front.
- (b) The hinge is broken.
- (c) The choke dielectric or the door seal is damaged.
- (d) The door is bent or warped, or there is any other visible damage to the oven that may cause microwave energy leakage.
NOTE: Always keep the seal clean
- (e) Make sure there are no defective parts in the microwave generating and transmission assembly. (especially waveguide).
- (f) Make sure there are no defective parts in the interlock mechanism.

(4) Following items should be checked after the unit is repaired.

- (a) The interlock monitor switch is connected correctly and firmly.
- (b) The magnetron gasket on the magnetron is properly positioned.
- (c) Wave guide and oven cavity are intact (no leakage of microwave energy).
- (d) The door can be properly closed and the safety switches work properly.
- (e) The oven must be stopped when the door is opened or the time is up.

The oven must not be operated with any of the above components removed or bypassed.

5. OVEN CONTROL PANEL

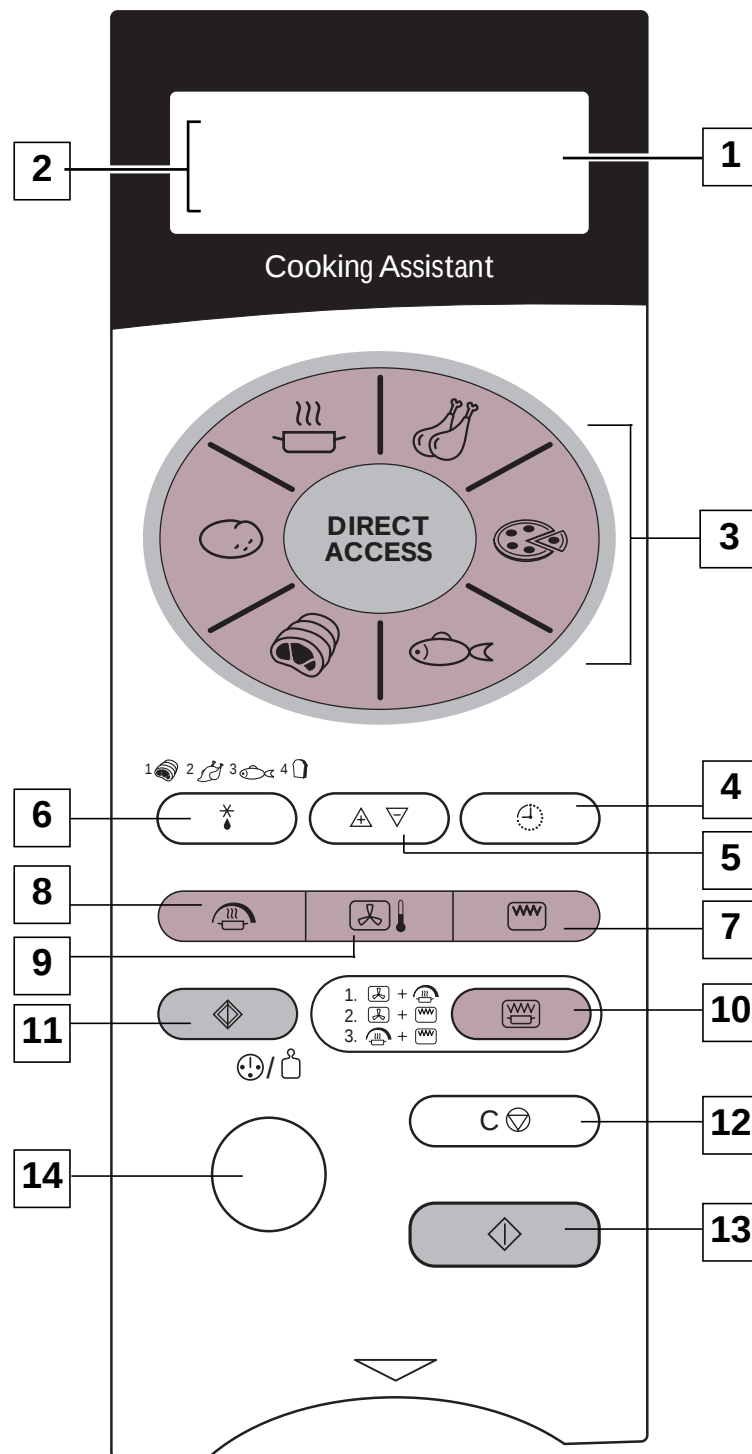


Figure 2

Notes :

A "beep tone" sounds when a "pad" on the control panel is touched, to indicate a setting has been entered.

When setting the controls you can keep your finger on a key until the desired setting is reached.

1. DISPLAY WINDOW.

2. FUNCTION INDICATORS.

KEYS:

3. Direct Access menu keypad.

4. Kitchen Timer

5. Time adjust for Auto Defrost and Direct Access

6. Auto Defrost

7. Grill only.

8. Microwave Power.

9. Convection Temp. only.

10. Dual Cook:

- 1. Convection+Micro
- 2. Convection+Grill
- 3. Micro+Grill

11. Quick Start

12. Clear / Stop.

13. Start.

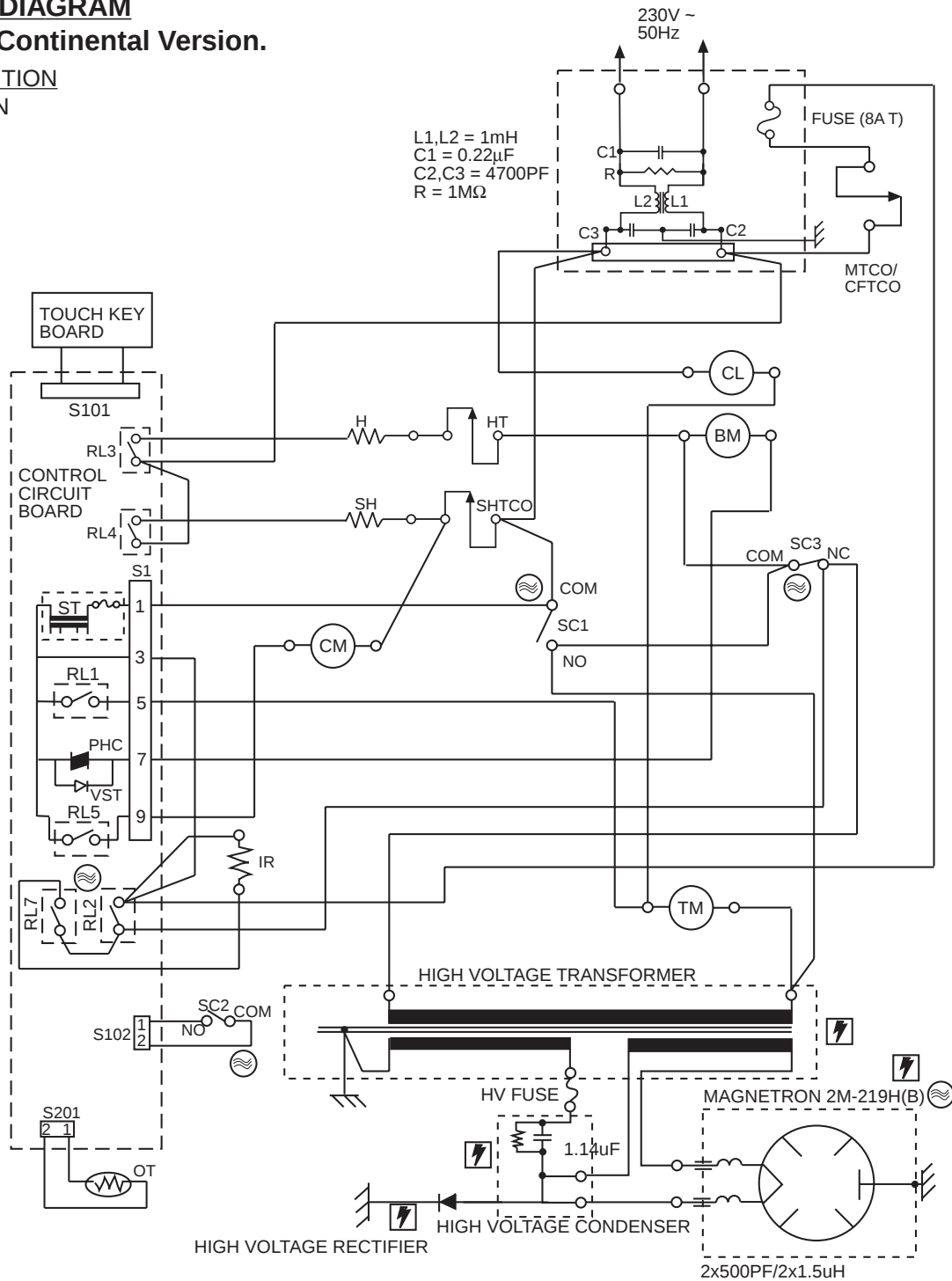
14. Time and Weight set.

6.CIRCUIT DIAGRAM

EM-D7750 Continental Version.

OVEN CONDITION

DOOR : OPEN



SC1 : PRIMARY INTERLOCK SWITCH
SC2 : DOOR SENSING SWITCH
SC3 : INTERLOCK MONITOR SWITCH
HT : GRILL HEATER THERMOSTAT
MTCO/ : MAGNETRON/CAVITY FIRE THERMAL
CFTCO CUT OUT
SHTCO: CONVEC. HEATER THERMAL CUT OUT
RL1 : MAIN RELAY
RL2 : POWER CONTROL RELAY
RL3 : GRILL HEATER RELAY
RL4 : CONVEC. HEATER RELAY
RL5 : FAN MOTOR RELAY

BM : BLOWER MOTOR
CM : CONVEC. FAN MOTOR
TM : TURNTABLE MOTOR
DM : DUMPER MOTOR
CL : OVEN LAMP
H : GRILL HEATER
SH : CONVEC. HEATER
OT : OVEN THERMISTOR
IR : INRUSH RESISTOR

Figure 3

 - The parts marked with  are supplied with a high voltage which exceeds 250V.

 - The parts marked with  have special characteristics important for microwave leakage. When replacing any of these parts use only manufacturer's specified parts.

7. TEST PROCEDURES AND TROUBLESHOOTING

CAUTION
- DISCONNECT THE POWER SUPPLY CORD FROM THE WALL OUTLET WHENEVER REMOVING THE CABINET FROM THE UNIT. PROCEED WITH THE TESTS ONLY AFTER DISCHARGING THE HIGH VOLTAGE CAPACITOR AND REMOVING THE LEAD WIRES FROM THE PRIMARY WINDING OF THE HIGH VOLTAGE TRANSFORMER. (See Figure 3)

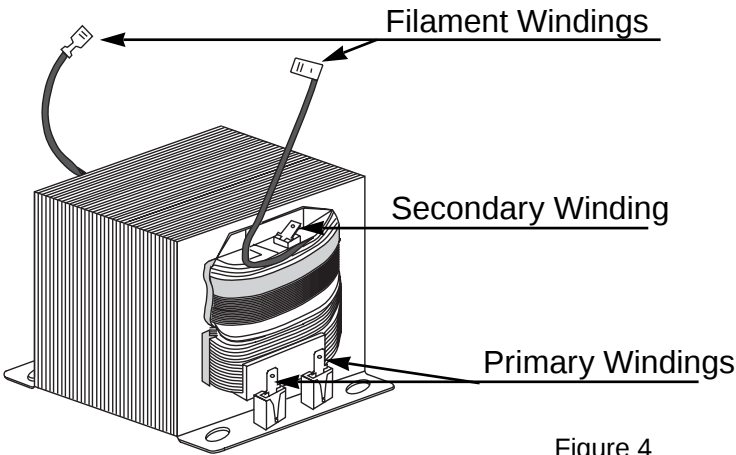
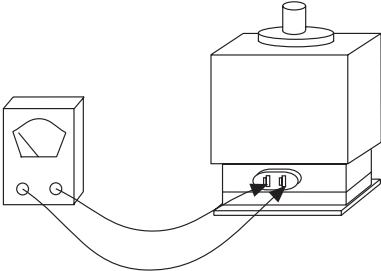
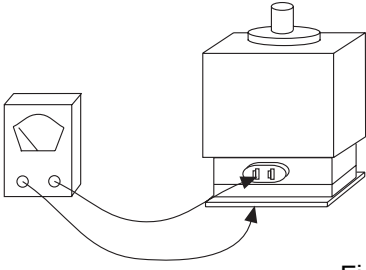
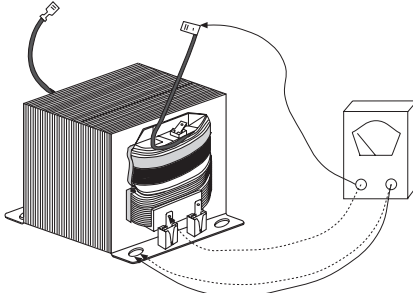
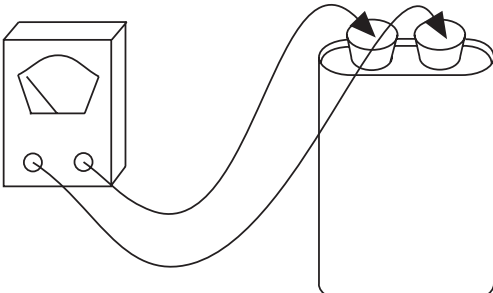
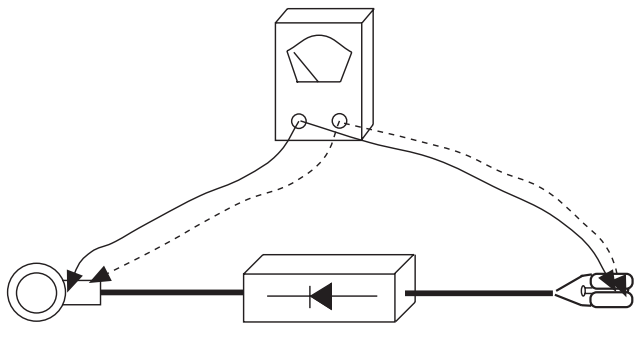


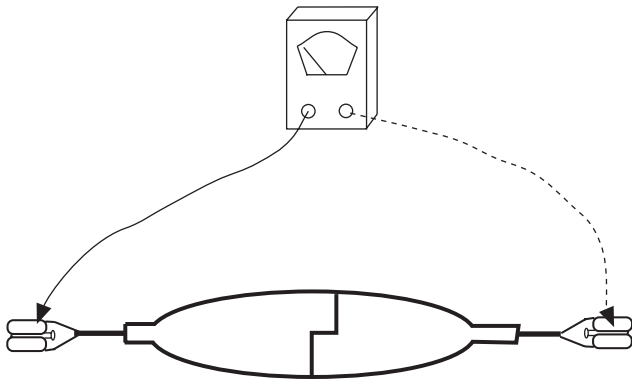
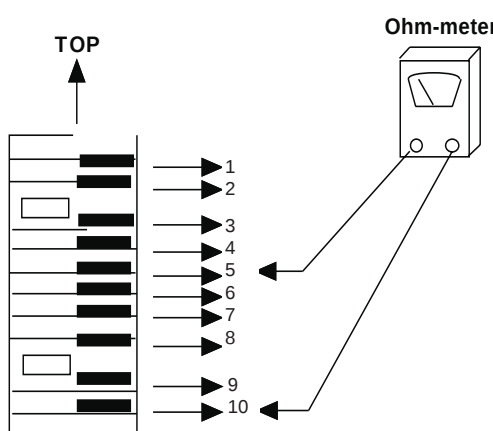
Figure 4

A. TEST PROCEDURE

COMPONENT	CHECKOUT PROCEDURE	RESULTS																				
MAGNETRON	1) Check for resistance : Across the filament terminals of the magnetron with an ohmmeter on Rx1 scale.  Figure 5	Normal reading : Less than 1 ohm.																				
	2) Check for resistance : Across the filament terminals of the magnetron and the chassis ground with an ohm-meter on highest scale.  Figure 6	Normal reading : Infinite ohms																				
	The chart below shows the firing times of the variable power relay for the EM-D7750 model. The table should be used as a means to check the magnetron is operating correctly and producing any other power setting apart from full power. <table><tr><th>Power Level</th><th>On Time/s (inc.'ramp up' time)</th><th>% On Time</th></tr><tr><td>High (900W)</td><td>30.0</td><td>100</td></tr><tr><td>M-High(750W)</td><td>28.0</td><td>93</td></tr><tr><td>Roast (450W)</td><td>18.0</td><td>60</td></tr><tr><td>Simmer(300W)</td><td>13.0</td><td>43</td></tr><tr><td>Warm (150W)</td><td>8.0</td><td>27</td></tr><tr><td>Low (80W)</td><td>6.0</td><td>20</td></tr></table>		Power Level	On Time/s (inc.'ramp up' time)	% On Time	High (900W)	30.0	100	M-High(750W)	28.0	93	Roast (450W)	18.0	60	Simmer(300W)	13.0	43	Warm (150W)	8.0	27	Low (80W)	6.0
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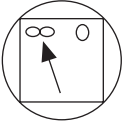
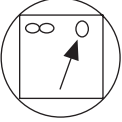
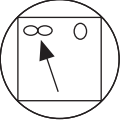
COMPONENT	CHECKOUT PROCEDURE	RESULTS
HIGH VOLTAGE TRANSFORMER	1) Measure the resistance : With an ohmeter on Rx1 scale. - Primary Winding ; - Filament Winding ; - Secondary Winding ; 2) Measure the resistance : With an ohm-meter on highest scale. - Primary winding to ground ; - Filament winding to ground ;  Figure 7	Normal readings : Approximately 1.7 ohms. Less than 1 ohm. Approximately 92 ohms. Normal readings : Infinite ohms Infinite ohms Note : Remove varnish of measured point.
HIGH VOLTAGE CAPACITOR including BLEEDER RESISTOR	1) Measure the resistance : Across two terminals with an ohm-meter on highest scale  Figure 8	Normal reading : Momentarily indicates several ohms, and gradually returns to 10 Meg-ohm. Abnormal reading : Indicates continuity or 10MΩ from the beginning.
HIGH VOLTAGE DIODE	Measure the resistance : Across two terminals with an ohm-meter on its highest scale.  Figure 9	Normal reading : Indicates over 10MΩ in one direction (forward direction) and infinite ohms in the reverse direction, using meter which is provided with a 9-volt battery. NOTE Some digital meters may show over even in a forward direction because low measuring voltage of meter does not allow the meter current to pass through the high voltage diode. Abnormal reading: Indicates continuity or infinite ohms in both directions.

COMPONENT	CHECKOUT PROCEDURE	RESULT
THERMISTOR	Measure the resistance: Between the Pin 1 and Pin 3 of connector S103 after disconnecting it from the control circuit board with an ohm-meter on the highest scale.	Normal Reading: Approximately 1800K ohms @ 20°C 1400K ohms @ 25°C
CONVECTION HEATER (BACK HEATER)	Measure the resistance: After removing the lead wires from the convection heater with an ohm-meter on R x 1 scale.	Normal Reading: Approximately 46 ohms
GRILL HEATER (UPPER HEATER)	Measure the resistance: After removing the lead wires from the grill heater with an ohm-meter on R x 1 scale.	Normal Reading: Approximately 48.7 ohms
BLOWER MOTOR	Measure the resistance: After removing the lead wires from the blower motor with an ohm-meter on R x 100 scale.	Normal Reading: Approximately 300 ohms
CONVECTION FAN MOTOR	Measure the resistance: After removing the lead wires from the convection fan motor with an ohm-meter on R x 100 scale.	Normal Reading: Approximately 180 ohms
TURNTABLE MOTOR	Measure the resistance: After removing the lead wires from the turntable motor with an ohm-meter on highest scale.	Normal Reading: Approximately 16K ohms

COMPONENT	CHECKOUT PROCEDURE	RESULTS																																										
HV FUSE	Measure the resistance : Across two terminals with an ohm-meter on its highest scale.  Figure 10	Normal reading : Indicates continuity. Abnormal reading : Indicates infinite ohms.																																										
CONTROL CIRCUIT BOARD COMPLETE	Measure the voltage : Between test points TP-1,TP-2 and ground (See control circuit board on page 24). NOTE Proceed with the check of the step down transformer, to see if any one of the measured values is different from the specified values	<table><tr><td>Test point</td><td>TP-1</td><td>TP-2</td></tr><tr><td>Voltage</td><td>-5V DC</td><td>-15V DC</td></tr></table>	Test point	TP-1	TP-2	Voltage	-5V DC	-15V DC																																				
Test point	TP-1	TP-2																																										
Voltage	-5V DC	-15V DC																																										
TOUCH KEY BOARD	Measure the resistance between terminals of FPC connector after removing it from S101. (See Figure 11). NOTE - When reconnecting the FPC connector, make sure the holes on the connector are properly inserted in hooks of the plastic fastener in S101. MATRIX CIRCUIT FOR TOUCH KEYBOARD FPC CONNECTOR <table><tr><td></td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>6</td><td>CLEAR/ STOP</td><td>GRILL</td><td>QUICK START</td><td>AUTO DEFROST</td><td>POTATO</td></tr><tr><td>7</td><td>MICRO POWER</td><td>CONVEC. TEMP</td><td></td><td></td><td>CHICKEN</td></tr><tr><td>8</td><td></td><td>DUAL COOK</td><td>KITCHEN TIMER</td><td></td><td>PIZZA</td></tr><tr><td>9</td><td></td><td></td><td>MORE/ LESS</td><td></td><td>FISH</td></tr><tr><td>10</td><td>START</td><td></td><td></td><td>REHEAT</td><td>MEAT</td></tr></table>		5	4	3	2	1	6	CLEAR/ STOP	GRILL	QUICK START	AUTO DEFROST	POTATO	7	MICRO POWER	CONVEC. TEMP			CHICKEN	8		DUAL COOK	KITCHEN TIMER		PIZZA	9			MORE/ LESS		FISH	10	START			REHEAT	MEAT	<table><tr><td>Resistance Value</td><td>When touched</td><td>When not touched</td></tr><tr><td></td><td>Less than 1K Ohms</td><td>More than 1 MEG Ω</td></tr></table> When checking the "START" key, connect Ohmmeter as illustration below.  TERMINALS OF FPC CONNECTOR Figure 11	Resistance Value	When touched	When not touched		Less than 1K Ohms	More than 1 MEG Ω
	5	4	3	2	1																																							
6	CLEAR/ STOP	GRILL	QUICK START	AUTO DEFROST	POTATO																																							
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8		DUAL COOK	KITCHEN TIMER		PIZZA																																							
9			MORE/ LESS		FISH																																							
10	START			REHEAT	MEAT																																							
Resistance Value	When touched	When not touched																																										
	Less than 1K Ohms	More than 1 MEG Ω																																										

CHECKOUT PROCEDURE FOR SWITCHES

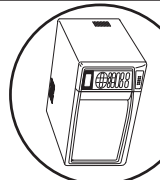
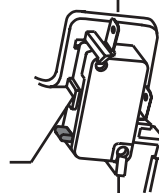
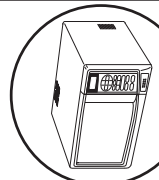
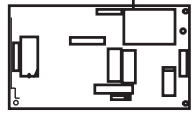
Disconnect the lead wires from the switches and check the continuity of the switches, connecting an ohm-meter to its terminals.

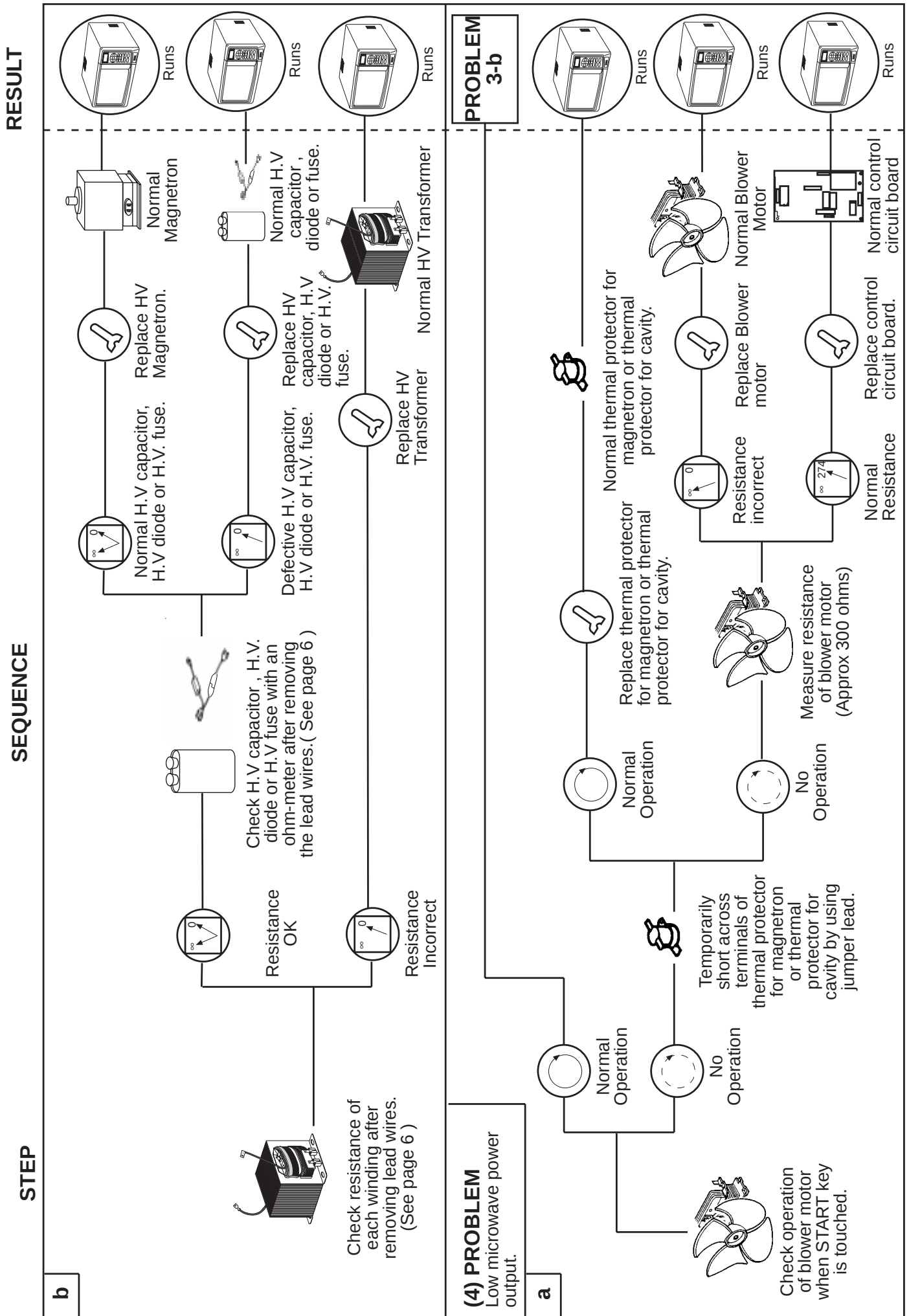
SWITCH	CHECKOUT PROCEDURES	DOOR OPEN	DOOR CLOSE
Primary Interlock	Connect an ohm-meters leads to terminals "COM" and "NO" of switch		
Door Sensing			
Interlock monitor	Connect an ohm-meters leads to terminals "COM" and "NC" of switch		

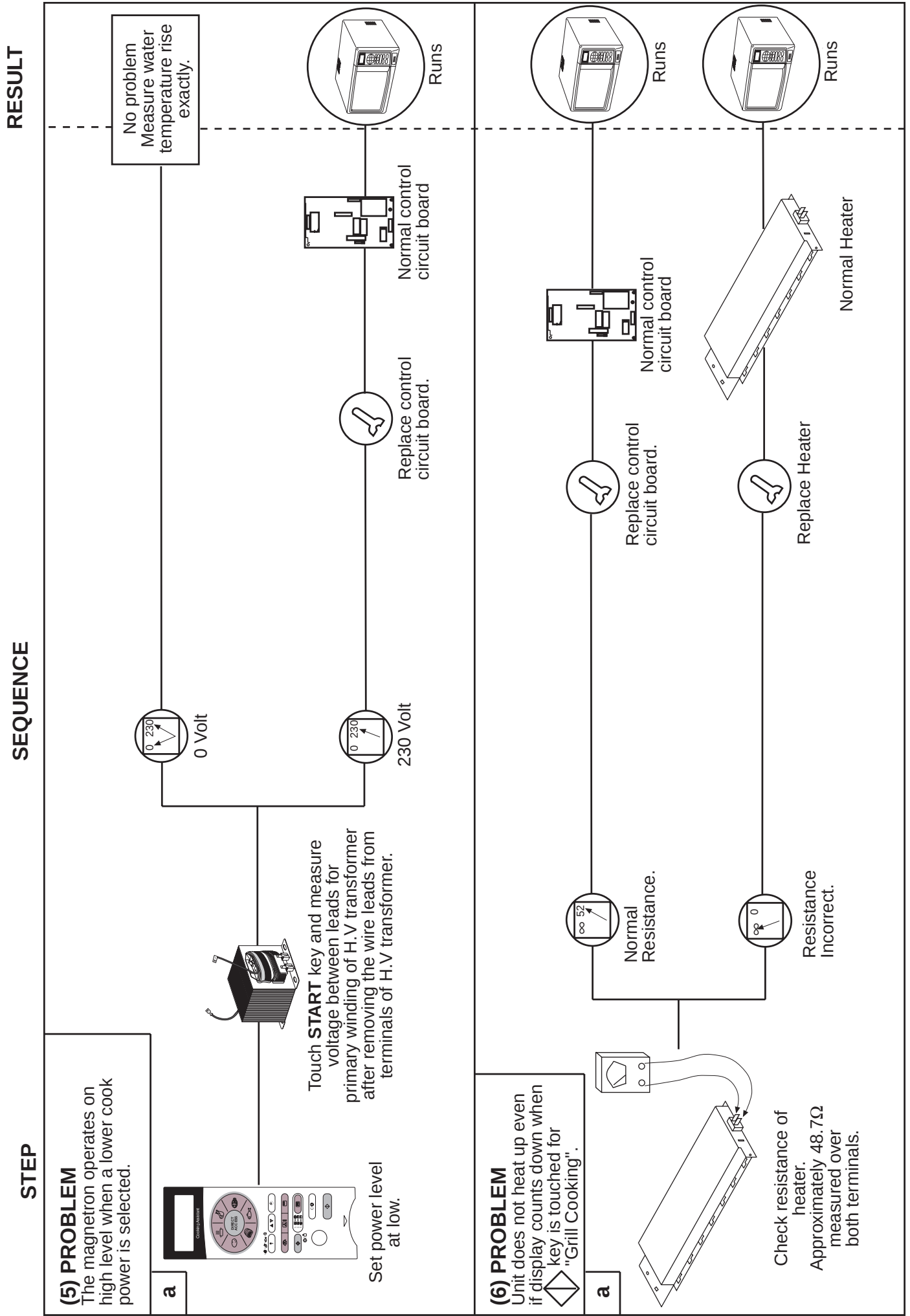
CAUTION : After checking the switches, make sure that the interlock monitor switch is properly connected according to the CIRCUIT DIAGRAM on page 4.

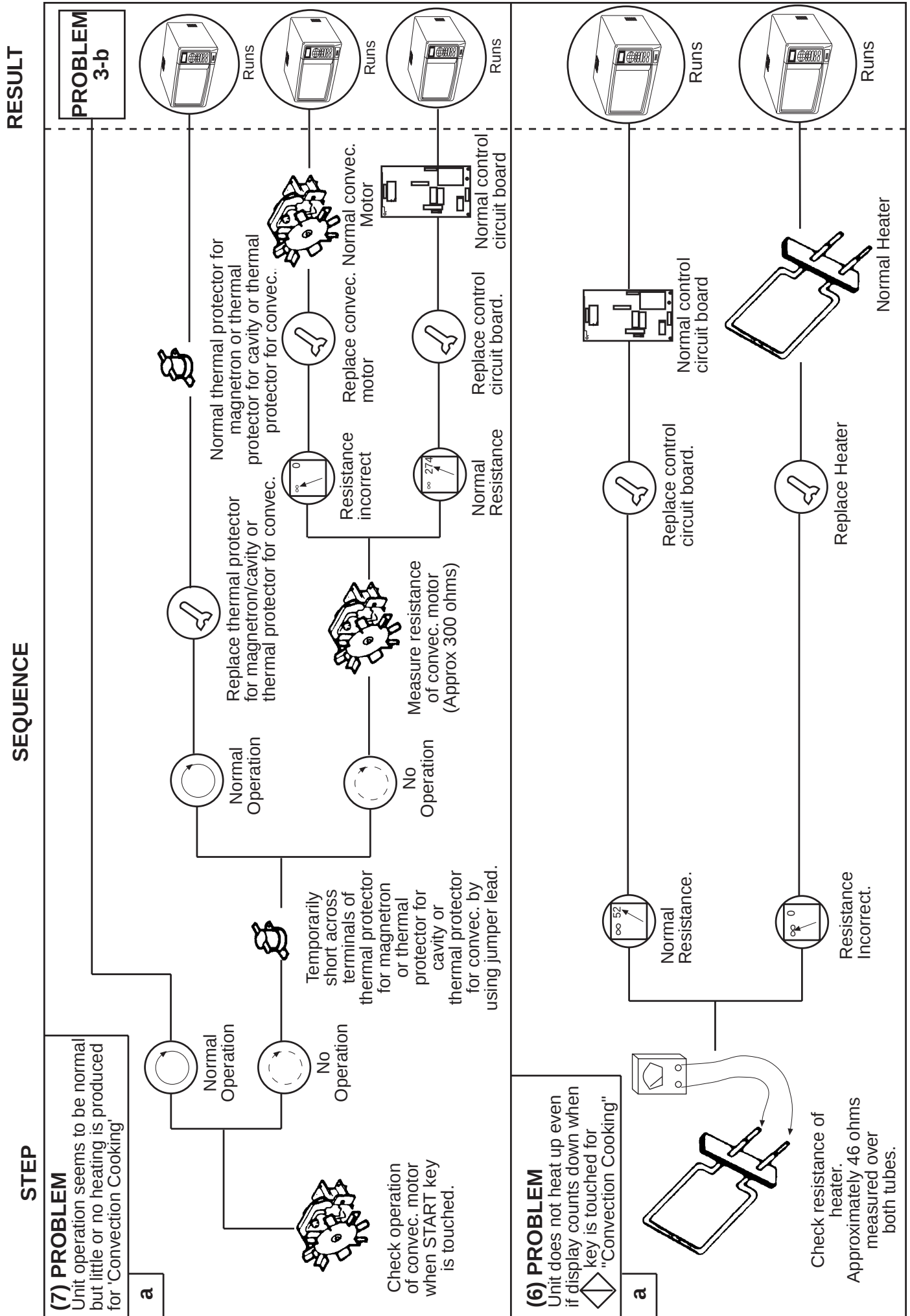
B. TROUBLESHOOTING

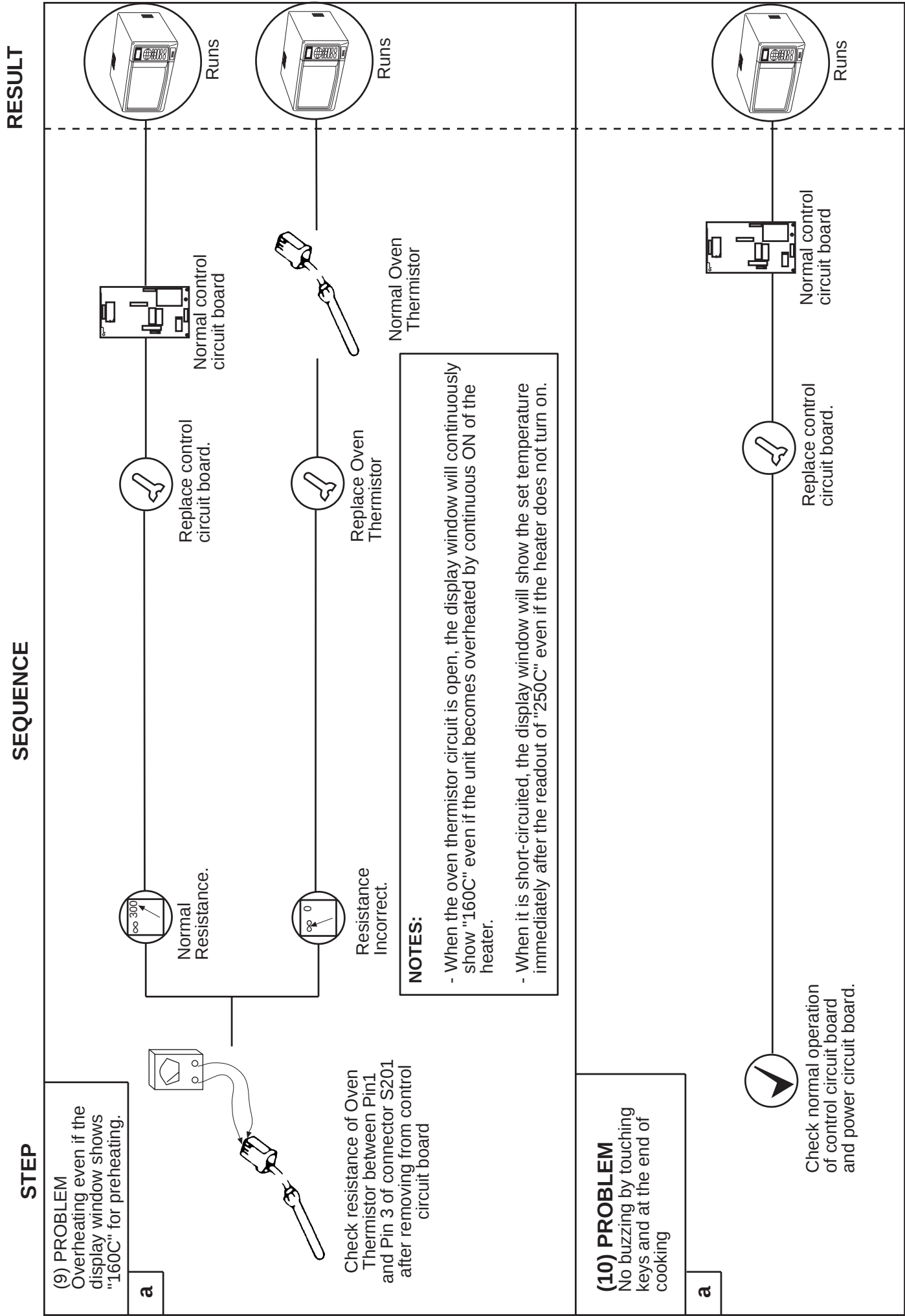
STEP	SEQUENCE	RESULT
(1) PROBLEM No display or mis-display in the display window by touching the keys. a	 0 Volt	 Runs
	 Check continuity of FUSE , Thermal Protector for cavity, magnetron and AC Power Cord. If the fuse has blown see "D. REMOVING FUSE" on page 16	
	 Replace it if necessary	
PROBLEM 1-b	 230 Volt	 Runs
	 Check 230V AC power supply of connector S1 between Pin3 and Pin 5 after removing connector S1 from control circuit board.	
b	 Check power supply voltage on control circuit board. (See page 8)	
	 Each Voltage OK	 Runs
	 Check resistance of touch keyboard (See page 8)	
	 Check Resistance OK	 Runs
	 Correct seating of connector S101 or replace control circuit board.	
	 Resistance is correct ON or OFF	 Runs
	 Replace touch keyboard	
	 Replace control circuit board.	
	 Normal control circuit board	
	 Normal touch keyboard	
	 Normal control circuit board	

STEP	SEQUENCE	RESULT
(2) PROBLEM Cooking operation will not start. a CHECK : 1. Power Supply to Oven 2. Primary Interlock Switch 3. Thermal protector for Cavity and Magnetron	 Continuity OK  Check contact of connector S102  Check continuity of connector S102 between pins with the door closed after removing connector S102 from control cct board.  Contact OK  Correct Seating  Normal Contact  Runs  No Continuity  Adjust or Replace Door Sensing Switch  Normal Door Sensing Switch  Runs	(3) PROBLEM Oven does not heat up a  Touch START key and measure voltage between the two wire leads from primary windings of H.V transformer after removing the wire leads from terminals of H.V transformer  230 Volt  Replace Control Circuit Board  Normal Control Cct. board  Runs









8.DISASSEMBLY INSTRUCTIONS

- OVEN MUST BE DISCONNECTED FROM ELECTRICAL OUTLET WHEN MAKING REPLACEMENTS, REPAIRS, ADJUSTMENTS, AND CONTINUITY CHECKS BEFORE PROCEEDING WITH ANY REPAIR WORK AFTER DISCONNECTING. WAIT AT LEAST 1 MINUTE, UNTIL THE CAPACITOR IN THE HIGH VOLTAGE AREA HAS FULLY DISCHARGED.

- WHEN REPLACING ANY DOOR MICRO SWITCH, REPLACE WITH THE SAME TYPE SWITCH SPECIFIED ON THE PARTS LIST.

A. REMOVING PRIMARY INTERLOCK SWITCH, DOOR SENSING SWITCH AND INTERLOCK MONITOR SWITCH

(See Figure 1 on page 1 and Figure 12 on this page)

- (1) Remove 2 screws securing the lever stopper.
- (2) Disconnect all lead wires from the primary interlock switch, door sensing switch and the interlock monitor switch
- (3) Ease away the retaining clips holding the Primary interlock switch onto the lever stopper and remove.
- (4) Remove the door sensing switch by reference to the step (3).
- (5) Remove the interlock monitor switch by reference to step (3).
- (6) Make the necessary adjustment, and make microwave energy leakage check according to "1. ADJUSTMENT PROCEDURES" on page 1. After the switch is replaced with a new one, check proper operation of it according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 9.

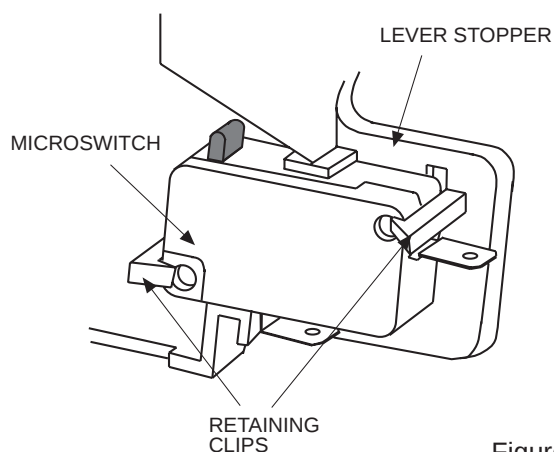


Figure 12

Interlock Switch Replacement - when replacing faulty switches, be sure switch retaining clips are not bent, broken or otherwise deficient in their ability to secure the switches in place.

B. REMOVING THE ANTENNA

(See exploded view on page 19)

- (1). Remove the screw securing the cavity cover to the cavity.
- (2). Remove the antenna complete by slightly bending it so the retension clips holding it slide out of the cavity wall.

C. REMOVING MAGNETRON

(See exploded view on page 20)

- (1) Remove the antenna complete according to

B. REMOVING THE ANTENNA.

- (2) Disconnect the 2 lead wires from the magnetron.
- (3) Remove 1 screw securing the duct to the magnetron, and take out the duct.
- (4) Remove 2 screws securing the stay plate, and take out.
- (5) Remove 4 screws securing the magnetron to the waveguide.

Take out the magnetron **VERY CAREFULLY.**

NOTES

- When removing the magnetron, make sure that its dome does not hit any adjacent parts, or it may be damaged.
- After replacing the magnetron, be sure to check the microwave energy leakage with a leakage detector and confirm the leakage is below 5 mW/cm².

D. REMOVING FUSE

(A) Remove the 8A fuse with a screwdriver.

- When replacing the 8A fuse, be sure to use an exact repair part.
 - If the 8A fuse blows immediately, check the primary interlock switch and the interlock monitor switch (terminals "C" and "NC") according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 9, and make sure to check the microwave energy leakage according to "1. ADJUSTMENT PROCEDURE" on page 1, when the primary interlock switch or the interlock monitor switch is replaced.
 - If the primary interlock switch is defective, replace not only the primary interlock switch but also the interlock monitor switch.
- Then install a new 8A fuse.
- If the primary interlock switch and the interlock monitor switch (terminals "C" and "NC") operate properly, determine which of the following is defective: blower motor, turntable motor, high voltage transformer, high voltage capacitor, high voltage diode or magnetron.

- If the high voltage diode is defective , replace not only the high voltage diode but also the HV fuse.

E. REMOVING DOOR

- (1) Remove the 2 screws securing the upper hinge.
- (2) Tilt the top of the door toward you.
- (3) Lift up the door to remove it.

When replacing the door body or door assembly the new door has to be set properly ensuring the correct door gap between door body and cavity front.

To set the new door;

1. Mount door loosely on cavity.
2. Before tightening the top and bottom hinge screws place feeler gauges (the thickness varies for different models- see table below) between the door assembly and the cavity front plate between the top and bottom hinges. NB. Be careful not to scratch the door cover with the feeler gauges.
3. The door should then be aligned with the control base and held firmly in place leaving a gap within 1-2mm. between the door cover and control base.

4. The hinge screws should then be tightened to hold the door in place, and the feeler gauges removed.
5. The door gap should then be checked again using feeler gauges.

Below is a table giving the door setting for the:-
EM-D7750

DOOR GAP	
Lower Limit	Upper Limit
0.1mm.	0.2mm.

After setting the door gap, the door is closed with the door latch fully engaged and the screws securing the switch base are loosened. The switch base is then eased to the right to pull the door face hard onto the front of the microwave. The screws are then secured tight. To check if the operation has been carried out correctly push the door top and bottom. Any movement should be minimal, and the door should feel tight to the front face of the microwave. Confirm that the operation has been successfully carried out by depressing the door release lever until the microswitches are heard to operate. This occurs just before the door opens.

NOTES

- After replacing the door, be sure to check that the primary interlock switch, door sensing switch and the interlock monitor switch operate normally. (See page 1).
- After replacing the door check for microwave energy leakage with a leakage detector.
Microwave energy leakage must be below the limit of 5mW/cm².

F. DISASSEMBLYING DOOR

(See exploded view on page 22)

- (1) Insert a thin flat blade screwdriver between the choke dielectric and the door mainframe and lift up the choke dielectric to release the hooks one by one.
- (2) To remove door cover, remove the 3 screws securing the door cover to the door main frame
- (3) Insert a thin flat blade screwdriver between the door cover and door mainframe and release the hooks one by one.
- (4) To detach the glass door panel, insert a thin flat blade screwdriver between the door panel and door cover and release the clips one by one.

NOTES

- The choke dielectric, the glass door panel and the door cover may be damaged when they are removed. When re-installing them, replace them with new ones if they are damaged.
- After installing the door in place, check for microwave energy leakage with a leakage detector.
Microwave energy leakage must be below the limit of 5mW/cm².

G. CHANGING POWER SUPPLY CORD

(See exploded view on page 20)

- (1) Remove the earthing screw.
- (2) Remove the power supply cord from the terminal of PCB complete.

- (3) Remove power cord from cavity assembly by lifting cord bush, moving it to the left and pulling it away from cavity rear plate.
- (4) Install the new power supply cord with the reverse procedure of above (1) to (3).

WARNING

For changing the power supply cord, never use parts other than the following :

Part Name : Power Supply Cord Assembly
Part No : **617 213 2990**

H. REMOVING TURNTABLE MOTOR COVER

(Refer to Figures 13 and 14 below)

- (1) Turn the unit and cut the 6 joints of the bottom plate and the motor cover using diagonal pliers (nipper). (See Figure 13)
- (2) Separate the motor cover and the bottom plate.

NOTES

- Bend the cut joints inside slightly for safety and be careful of the sharp edges.

RE-INSTALL :

- (1) Rotate the motor cover through 180°.
- (2) Insert the edge of the motor cover into the tab on the bottom plate.
- (3) Secure the motor cover by screwing it to the bottom plate (See Figure 14)
Use screw 411 156 5502 (not supplied with oven)

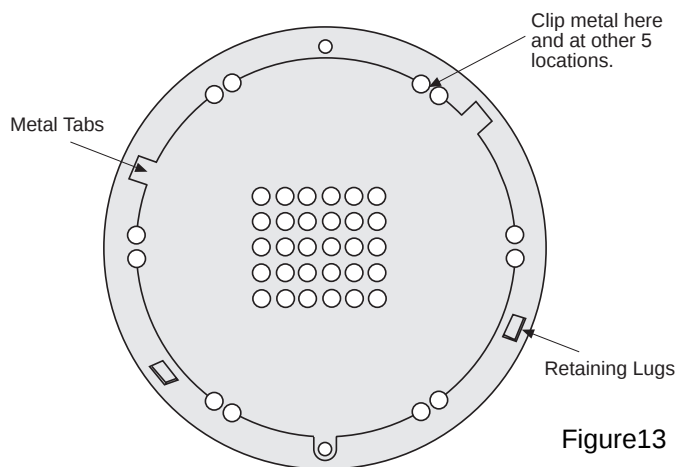


Figure13

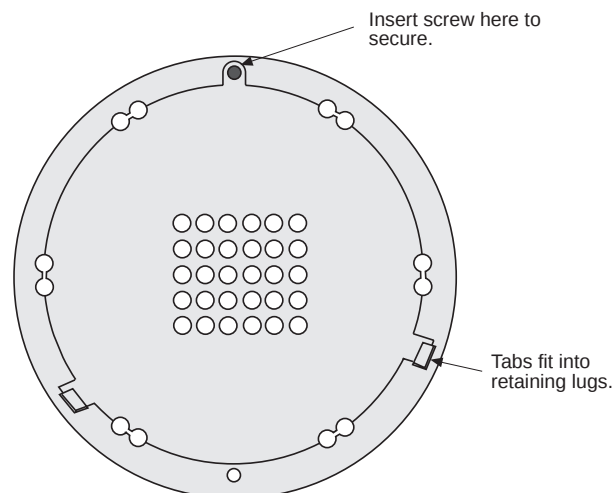
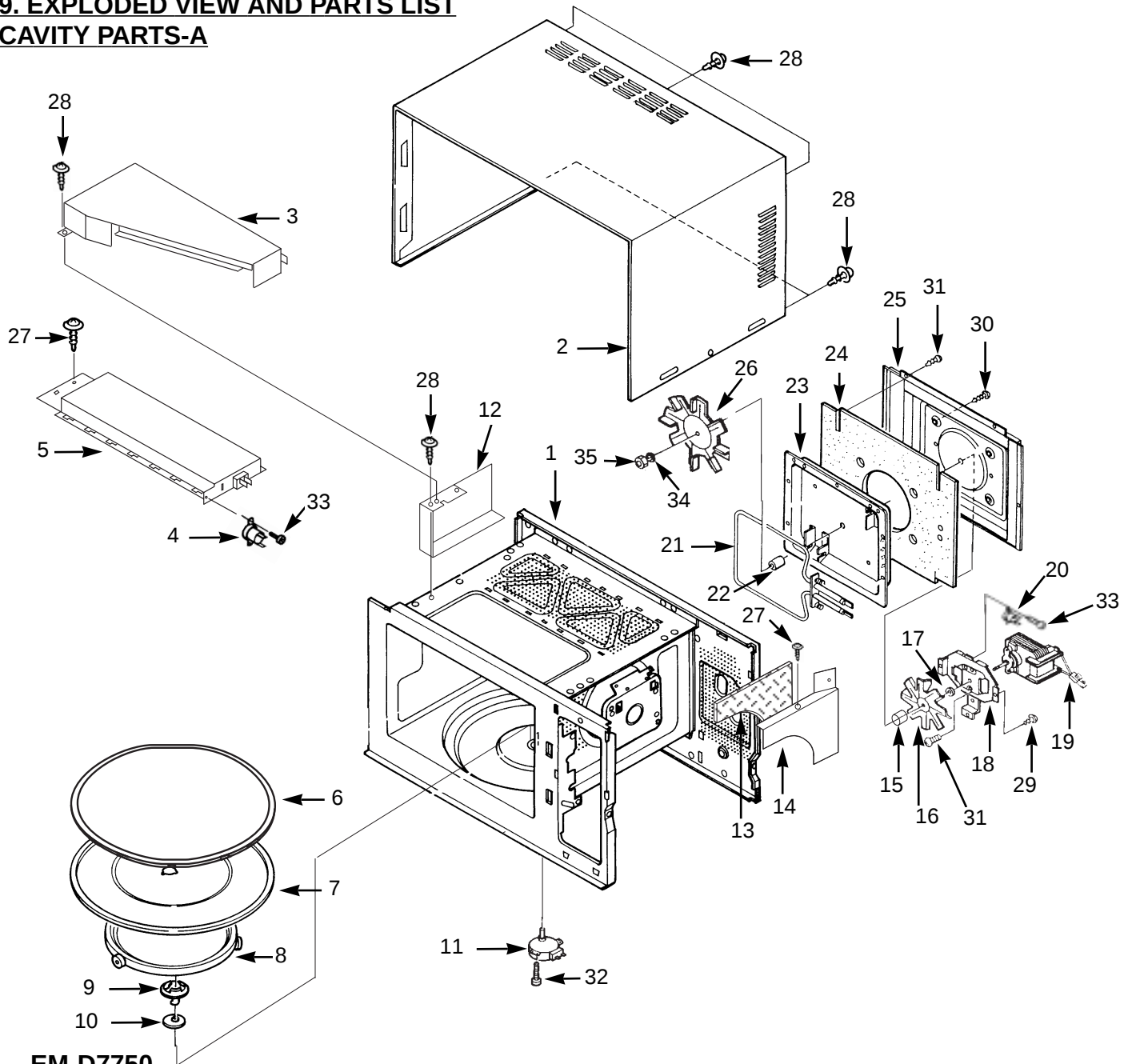


Figure14

9. EXPLODED VIEW AND PARTS LIST

CAVITY PARTS-A

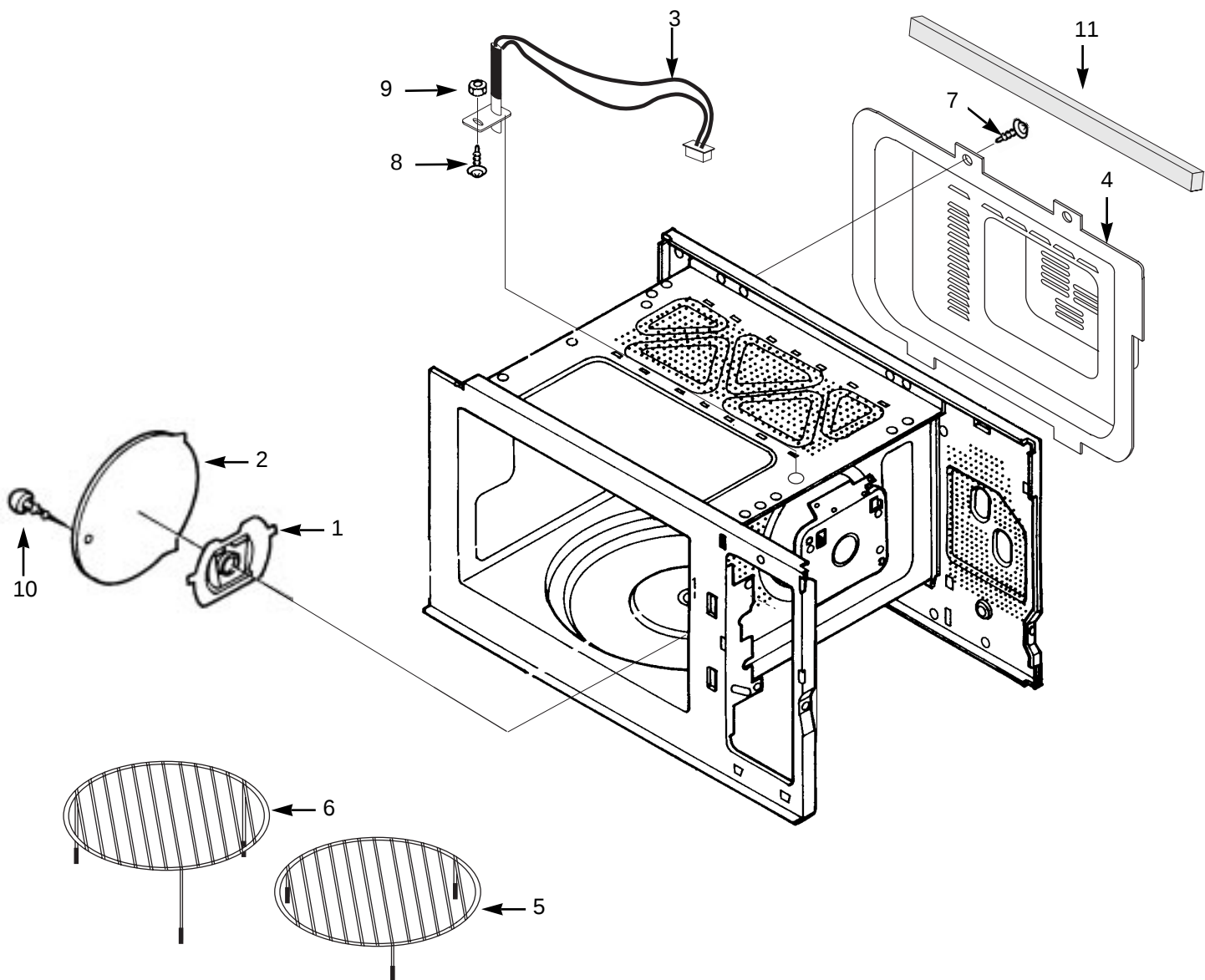


EM-D7750

Key No.	Part No.	Description	Q'ty
1	617 223 1198	Cavity Assembly	1
2	617 188 0595	Cabinet	1
3	617 221 5433	Duct	1
4	617 202 4554	Thermostat, V150°C	1
5	617 221 0025	Heater Complete	1
6	617 206 5151	Shelf	1
7	617 167 1421	Glass Tray	1
8	617 217 9560	Roller Base Ass'y	1
9	617 184 7659	Turntable Shaft	1
10	617 080 5315	Special Washer	1
11	617 123 9928	Gear Motor	1
12	617 206 4895	Duct	1
13	617 206 5366	Heat Insulator	1
14	617 206 5328	Heat Ins. Plate	1
15	617 179 0733	Collar	1
16	617 075 1162	Fan	1
17	617 186 0054	Special Washer	1
18	617 075 1476	Fan Base	1

Key No.	Part No.	Description	Q'ty
19	617 177 3231	Motor Complete	1
20	617 202 4561	Thermostat, V122°C	1
21	617 177 3200	Heater Ass'y	1
22	617 117 6698	Collar	1
23	617 206 5403	Heater Case Ass'y	1
24	617 206 5359	Heat Insulator	1
25	617 206 5373	Heat Ins Plate	1
26	617 075 1186	Fan	1
27	411 156 5502	SCR S-TPG PAN+F+S	2
28	411 156 5601	SCR TPG PAN+F+S 4x10	7
29	411 065 2500	SCR TPG BIN 4x6	3
30	617 192 9248	SCR S-TPG PAN 4x25	4
31	411 001 5800	SCR S-TPG PAN 4x6	2
32	411 001 6005	SCR S-TPG PAN 4x8	2
33	411 010 5600	SCR EVR PAN 3x6	1
34	411 016 3105	E Washer	1
35	411 054 8902	NUT HEX 4	1

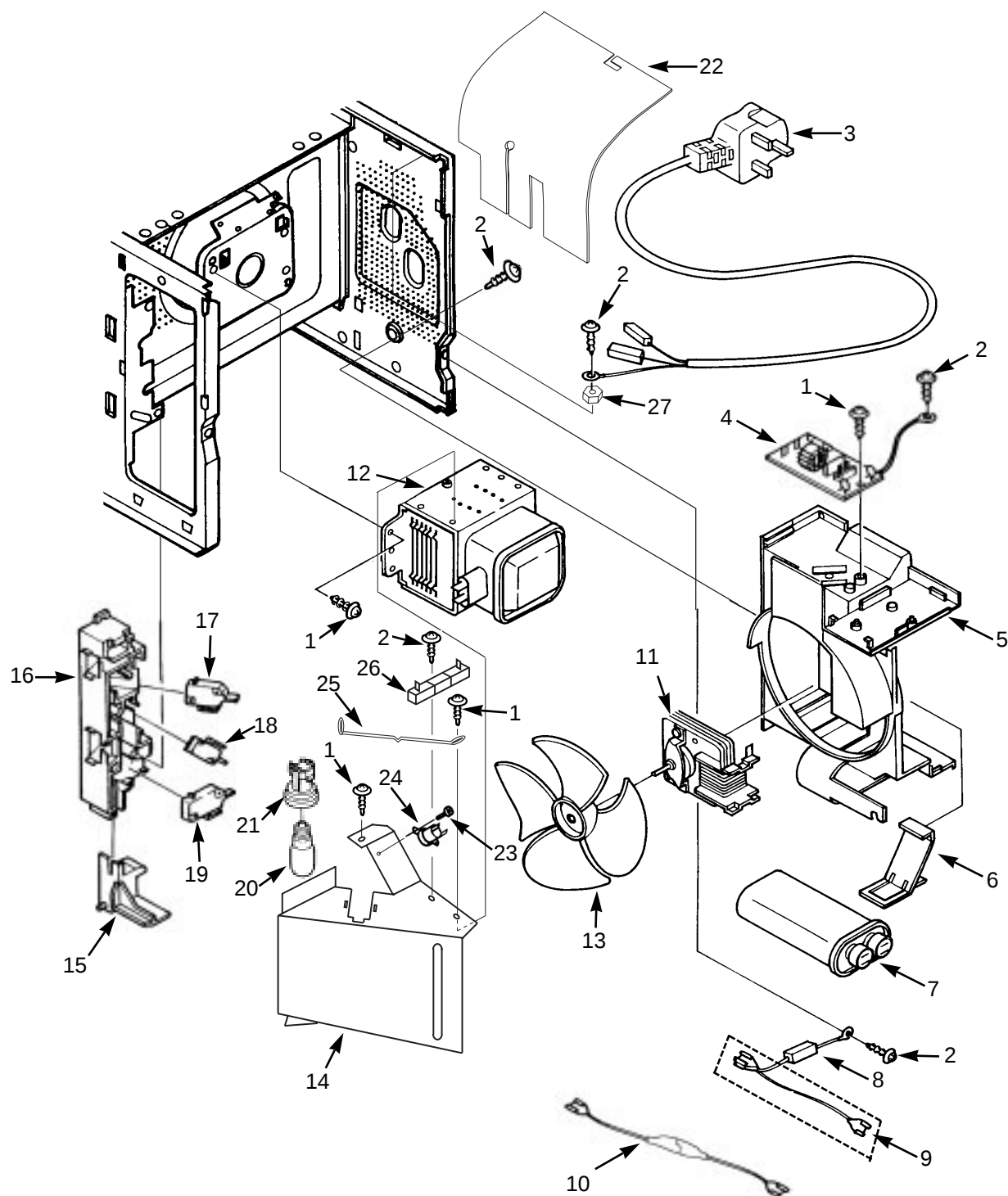
CAVITY PARTS-B



EM-D7750

Key No.	Part No.	Description	Q'ty
1	617 177 3156	Antenna Complete	1
2	617 169 8930	Cavity Cover	1
3	617 212 8177	Thermistor Ass'y	1
4	617 206 5717	Frame Rear Plate	1
5	617 206 5083	Cook Net	1
6	617 206 5090	Cook Net	1
7	411 156 5601	SCR TPG PAN+F+S 4x10	4
8	411 165 0406	SCR TPG TRS 4x10 SUS	1
9	411 053 9306	NUT HEX +LFLC W/SRT 4	1
10	412 048 6508	SCR TPG TRS 4x10	1
11	617 206 5335	Heat Insulator	1

SWITCHES AND MICROWAVE PARTS

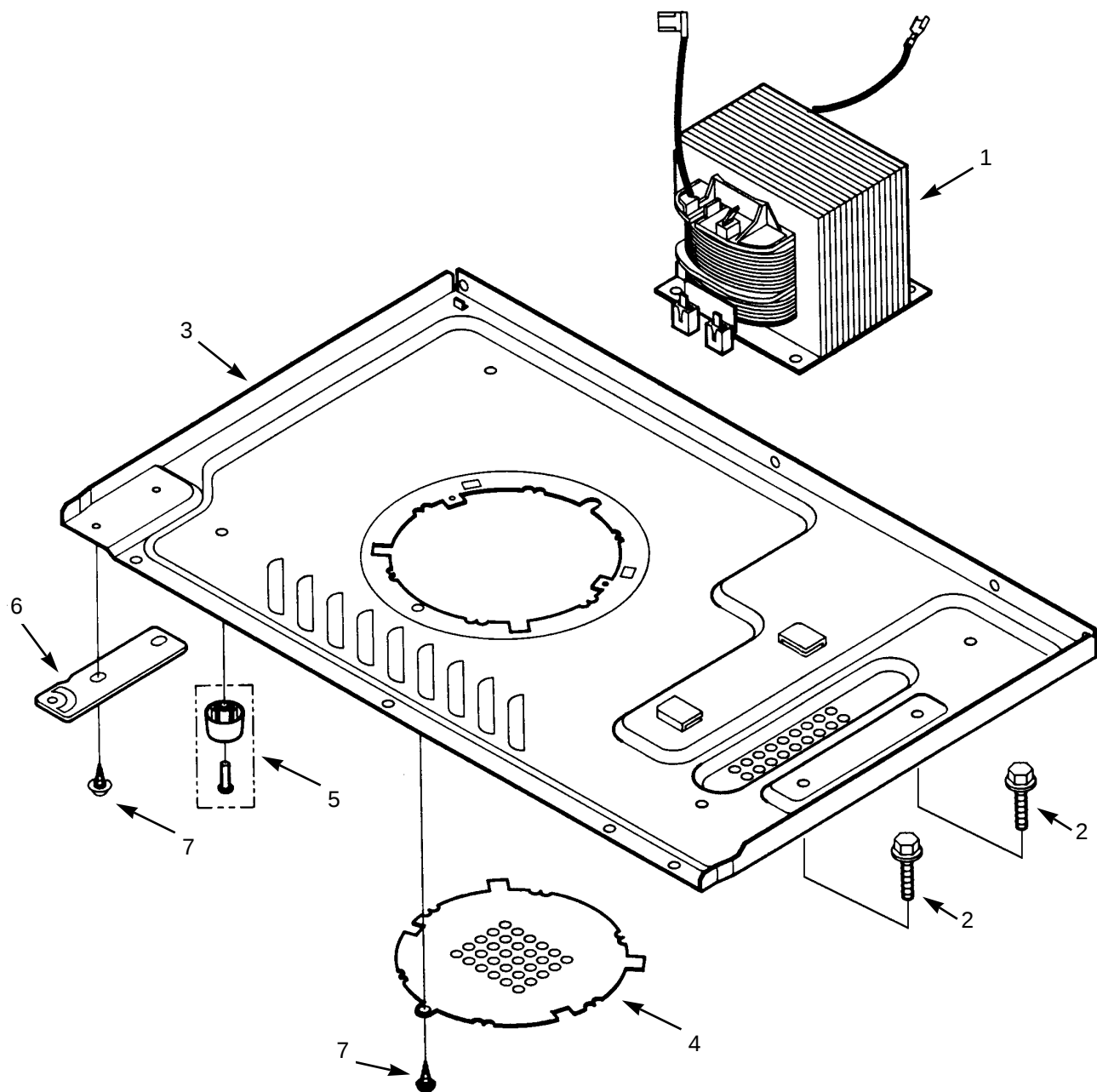


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Key No.	Part No.	Description	Q'ty
1	411 156 5601	SCR TPG PAN+F+S 4x10	7
2	411 156 5502	SCR S-TPG PAN +F+S 4x10	5
3	617 213 2990	Power Cord Ass'y	1
4	617 179 0764	PCB Complete	1
5	617 167 0417	Space Partition	1
6	617 162 2041	Capacitor Band	1
7	617 134 1751	Capacitor 1.14uF	1
8	617 182 6548	Diode Ass'y	1
9	617 167 0561	Lead Wire Ass'y	1
10	617 182 2915	HV Fuse	1
11	617 167 0592	Motor Complete	1
12	415 002 5005	Magnetron	1
13	617 112 1025	Fan	1

Key No.	Part No.	Description	Q'ty
14	617 220 1764	Duct	1
15	617 195 3428	Latch Lever	1
16	617 189 0839	Lever Stopper	1
17	617 213 4406	Response Switch	1
18	617 213 4413	Response Switch	1
19	617 213 4406	Response Switch	1
20	617 149 3009	Lamp 250V 25W	1
21	617 119 3480	Lamp Socket	1
22	617 206 5311	Insulation Sheet	1
23	411 010 5600	SCR EVR PAN 3x6	1
24	617 202 4561	Thermostat, V122°C	1
25	617 220 1757	Stay Plate	1
26	402 071 0703	Ceramic Resistor	1
27	411 004 5609	NUT HEX M4	1

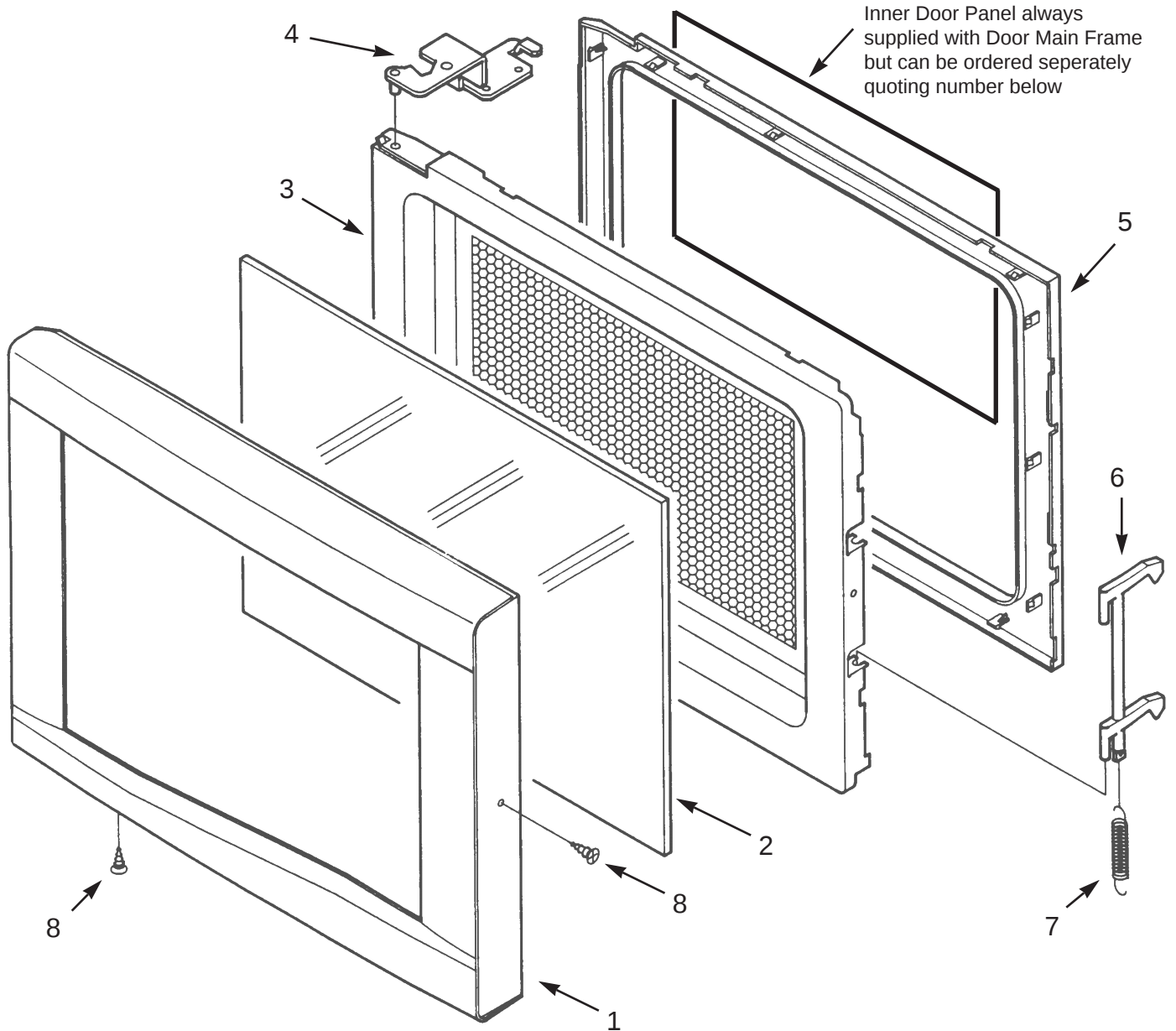
MICROWAVE PARTS



EM-D7750

Key No.	Part No.	Description	Q'ty
1	617 209 4557	Transformer	1
2	617 225 1721	Special Screw	2
3	617 220 7957	Bottom Plate	1
4	-----	Gear Motor Cover	1
5	617 144 5435	Foot Cushion Assembly	4
6	617 166 7493	Bottom Hinge	1
7	411 156 5502	SCR S-TPG PAN+F+S 4x10	3

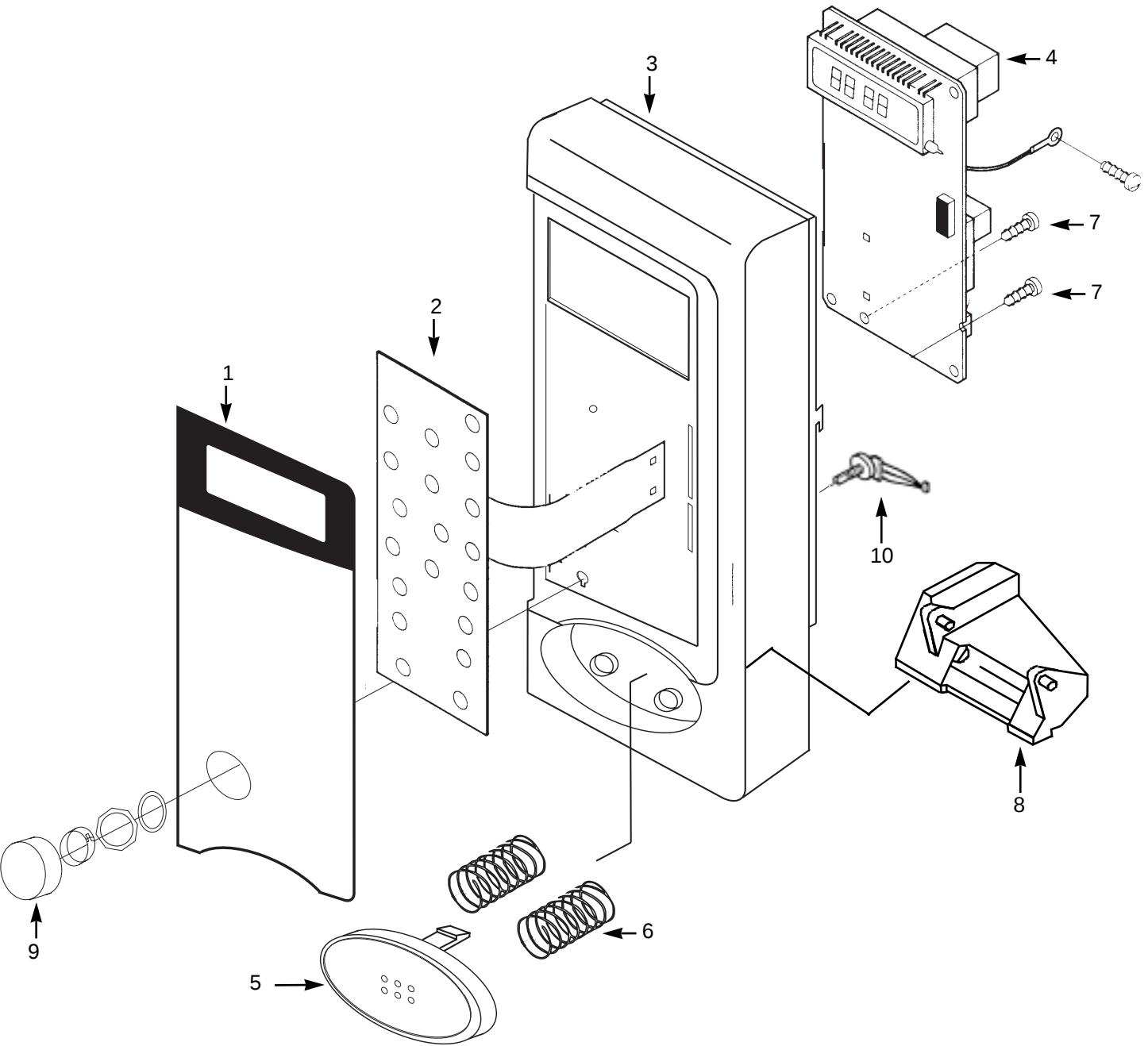
DOOR PARTS



EM-D7750

Key No.	Part No.	Description	Q'ty
1	617 223 2577	Door Cover	1
2	617 169 6806	Door Panel	1
3	617 169 6790	Door Main Frame	1
*	617 144 2472	Inner Door Panel	1
4	617 167 0189	Hinge Ass'y	1
5	617 167 1292	Choke Di-electric	1
6	617 195 3411	Door Latch	1
7	617 101 1494	Spring	1
8	411 071 9104	SCR TPG FLT 3x8	2
*	617 223 2560	Door Ass'y	1

CONTROL PANEL PARTS



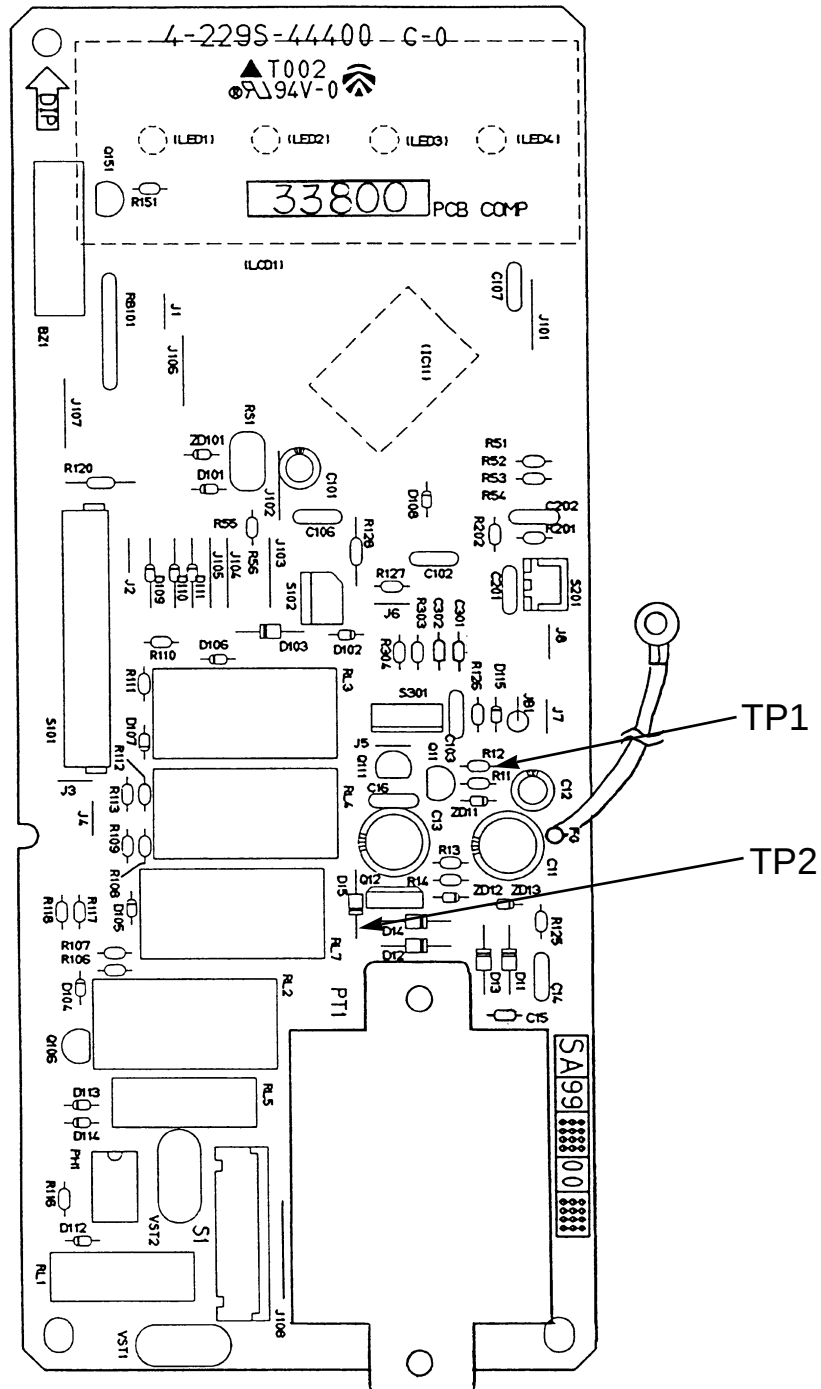
EM-D7750

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
1	617 224 7274	Control Plate	1	9	617 198 5146	Knob Assembly	1
2	617 221 0018	Keyboard	1	10	617 197 4836	PCB Complete	1
3	617 218 0113	Control Base	1	*	617 225 3909	Instr. Manual (English)	1
4	617 220 8374	PCB Complete	1	*	617 225 3916	Instr. Manual (French)	1
5	617 218 0168	Handle Lever	1	*	617 225 3923	Instr. Manual (Dutch)	1
6	617 188 3329	Spring	2	*	617 226 8231	Instr. Manual (German)	1
7	411 064 2709	SCR TPG BIN 3x14	2	*	617 221 8342	Corrugate Box	1
8	617 135 8407	Latch Lever	1				

* These items not illustrated

EM-D7750

Model	Version	Spares No.	RL7	M.Processor
EM-D7750	Semo	617 220 8374	Yes	IC11 LM8856



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