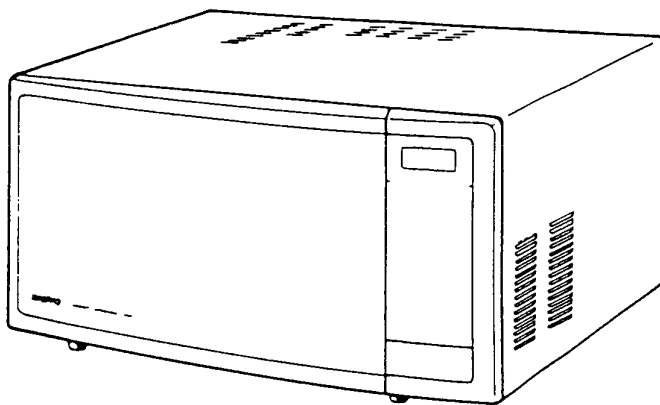


SERVICE MANUAL

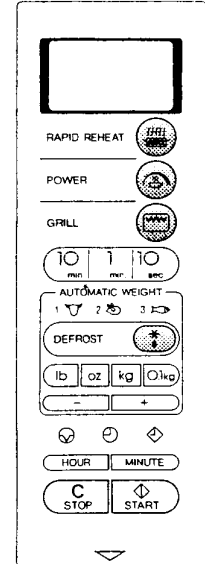
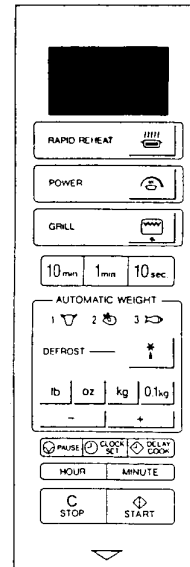
Micro/Grill Oven

EM-5646 (U.K.)
CG-1856 (U.K.)



CG-1856

EM-5646



Model No.	Product Code No.
EM-5646	437-197-60
CG-1856	437-197-61

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

- Do not operate or allow the oven to be operated with door open.
- Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
 - 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.
- 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.
- 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.

REFERENCE NO. SM-640008

– TABLE OF CONTENTS –

Adjustment Procedures	1	Circuit Diagram	4
Specifications	2	Test Procedures and Troubleshooting	5 ~ 12
Power Output Measurement	2	Disassembly Instructions	13 ~ 14
Precautions and Repair Service Tips	2	Exploded View and Parts List	15 ~ 20
Oven Control Panel	3	Overall Circuit Diagram	21

**CAUTION
MICROWAVE RADIATION**

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, WAVEGUIDES, FLANGES, AND GASKETS MUST BE SECURE, NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED. NEVER LOOK INTO AN OPEN WAVEGUIDE OR ANTENNA WHILE THE DEVICE IS ENERGIZED.

1. ADJUSTMENT PROCEDURES

TO AVOID POSSIBLE EXPOSURE TO MICROWAVE ENERGY LEAKAGE, THE FOLLOWING ADJUSTMENT OF THE INTERLOCK SWITCHES SHOULD BE MADE ONLY BY AUTHORIZED SERVICE PERSONNEL.

PRIMARY INTERLOCK SWITCH, INTERLOCK MONITOR AND SAFETY SWITCH AND DOOR SENSING 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 door latch and the switch body on the interlock monitor and safety 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 terminals between "C" and "NC" of the interlock monitor and safety switch closes after the primary interlock switch opens when the door is opened very slowly, according to "CHECK-OUT PROCEDURE FOR SWITCHES" on page 8.
- (5) Make sure the terminals between "C" and "NC" of the interlock monitor and safety opens before the primary interlock switch closes when the door is closed very slowly, according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 8.

- (6) Make sure the microwave energy leakage is below the limit of the regulation (5 mW/cm^2) when measured with a detector. (All service adjustments must be made for minimum microwave energy leakage readings.)

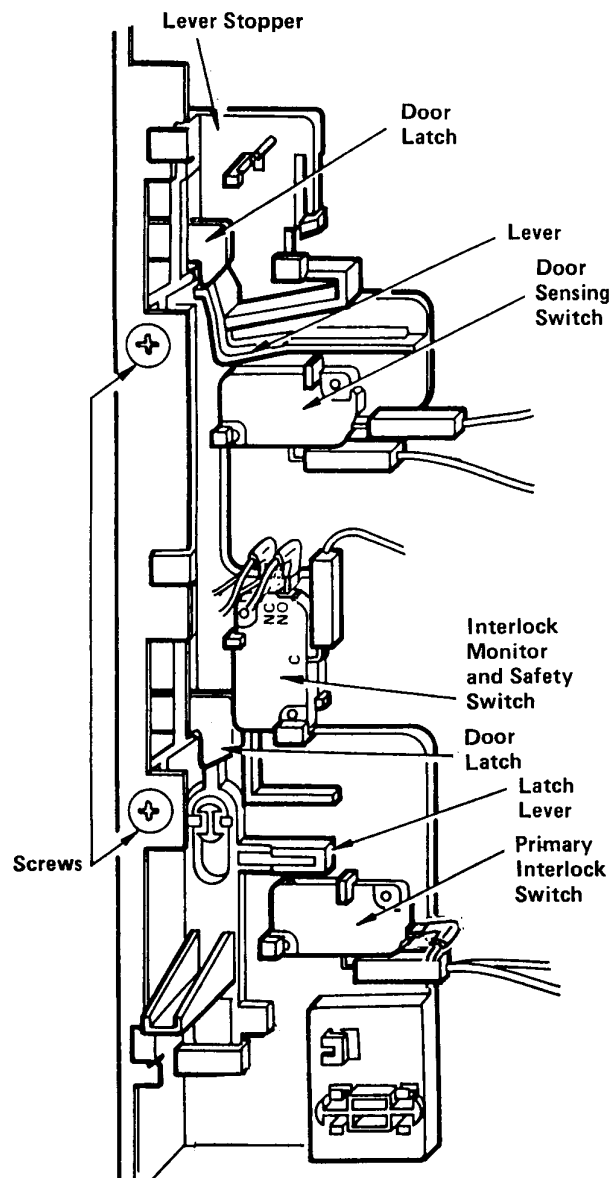


Figure 1

2. SPECIFICATIONS

Rated Power Consumption . . .	1450W (For Microwave) 1350W (For Grill)
Microwave Output	850W/650W/450W/300W/ 150W/80W
Frequency	2,450MHz±50MHz
Power Supply	240V 50Hz
Rated Current	6.1 Amp. (For Microwave) 5.4 Amp. (For Grill)
Safety Devices	Thermal Protector for Mag- netron, Open at 135°C Thermal Protector for Cavity, Open at 135°C Thermal Protector for Oven Open at 122°C Fuse (Cartridge Type 8A) Primary Interlock Switch Interlock Monitor and Safety Switch
Timer	Electronic Digital, up to 90 min (For Microwave) 30 min (For Grill)
Overall Dimensions	550(W)×415(D)×350(H)mm
Oven Cavity Size	348(W)×354(D)×251(H)mm
Turn Table Diameter	310mm
Net Weight	Approx. 21 Kg

3. POWER OUTPUT MEASUREMENT

- (1) Prepare 1000±5g tap water.
- (2) Adjust water temperature to 10°±2°C.
- (3) Pour water into a container made of borosilicate glass, 190mm outer diameter cylinder, maximum 3mm thickness.
Note: Use the container kept on the room temperature.
- (4) Place the container in the center of oven cavity.
- (5) Set the heating time for 49 seconds and rating full power and then start oven.
- (6) Take the container out immediately when heating time is up.
- (7) Stir water for making even water temperature in the container.
- (8) Measure water temperature.

Water temperature rise shall be 8° to 12°C.

4. PRECAUTIONS AND REPAIR SERVICE TIPS

PRELIMINARY

- A. SINCE NEARLY 4,000 VOLTS EXISTS 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.**

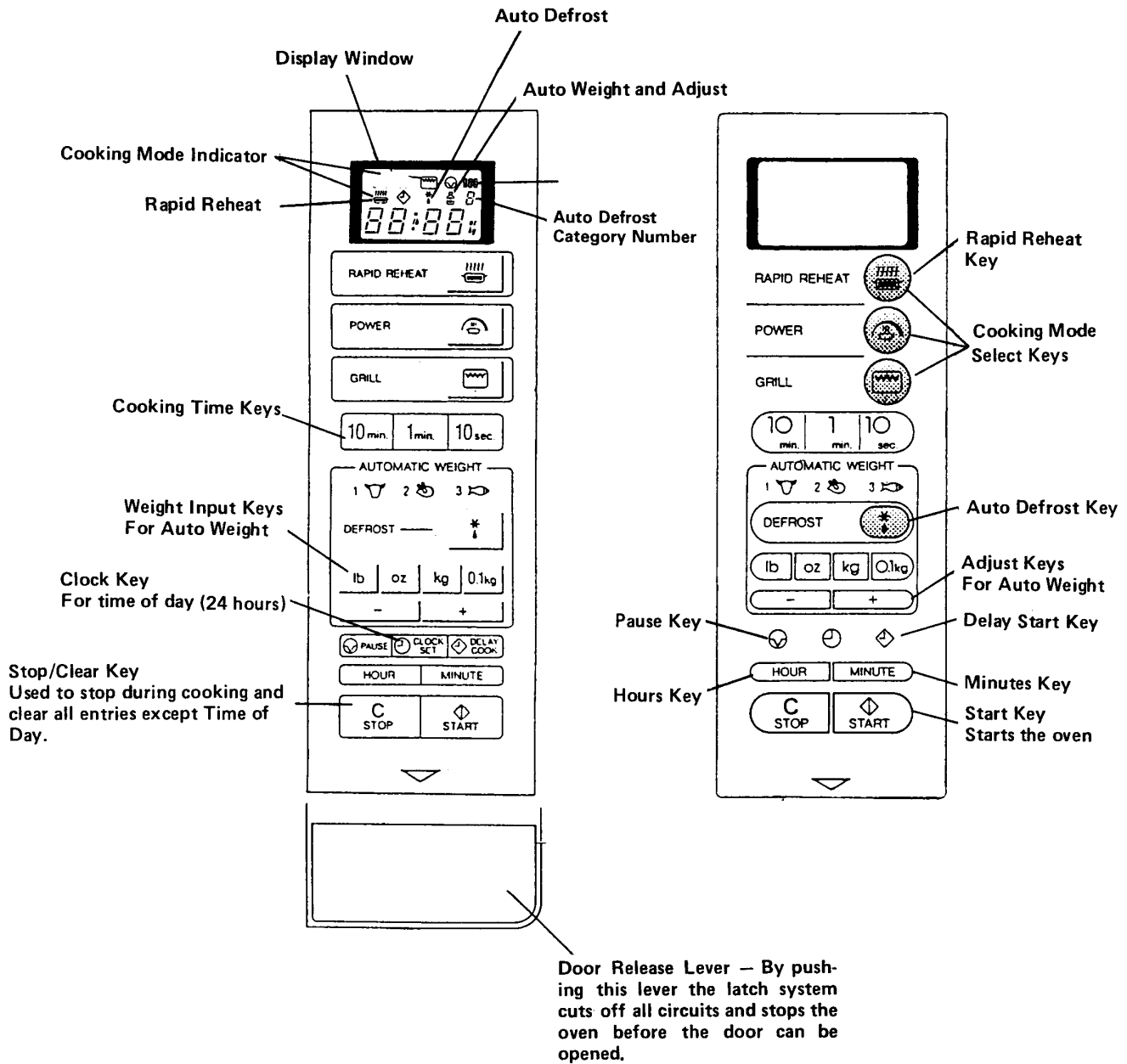
- (1) Before the power is applied:
 - (a) Open and close the door several times to make sure the primary interlock switch, the interlock monitor and safety switch and the door sensing switch operate properly. (Listen for the clicking sound from the switches.)
Make sure the interlock monitor switch (terminals "C" and "NC") closes after the primary interlock switch opens when the door is opened.
(See pages 1 and 8)
 - (b) Make sure the perforated screen and the choke dielectric 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 5 mW/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 that there are no defective parts in the interlock mechanism.
 - (f) Make sure that there are no defective parts in the microwave generating and transmission assembly. (especially waveguide).
- (4) The 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) Waveguide 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 time is up.

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

5. OVEN CONTROL PANEL

CG-1856

EM-5646



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.

Figure 2

6. CIRCUIT DIAGRAM

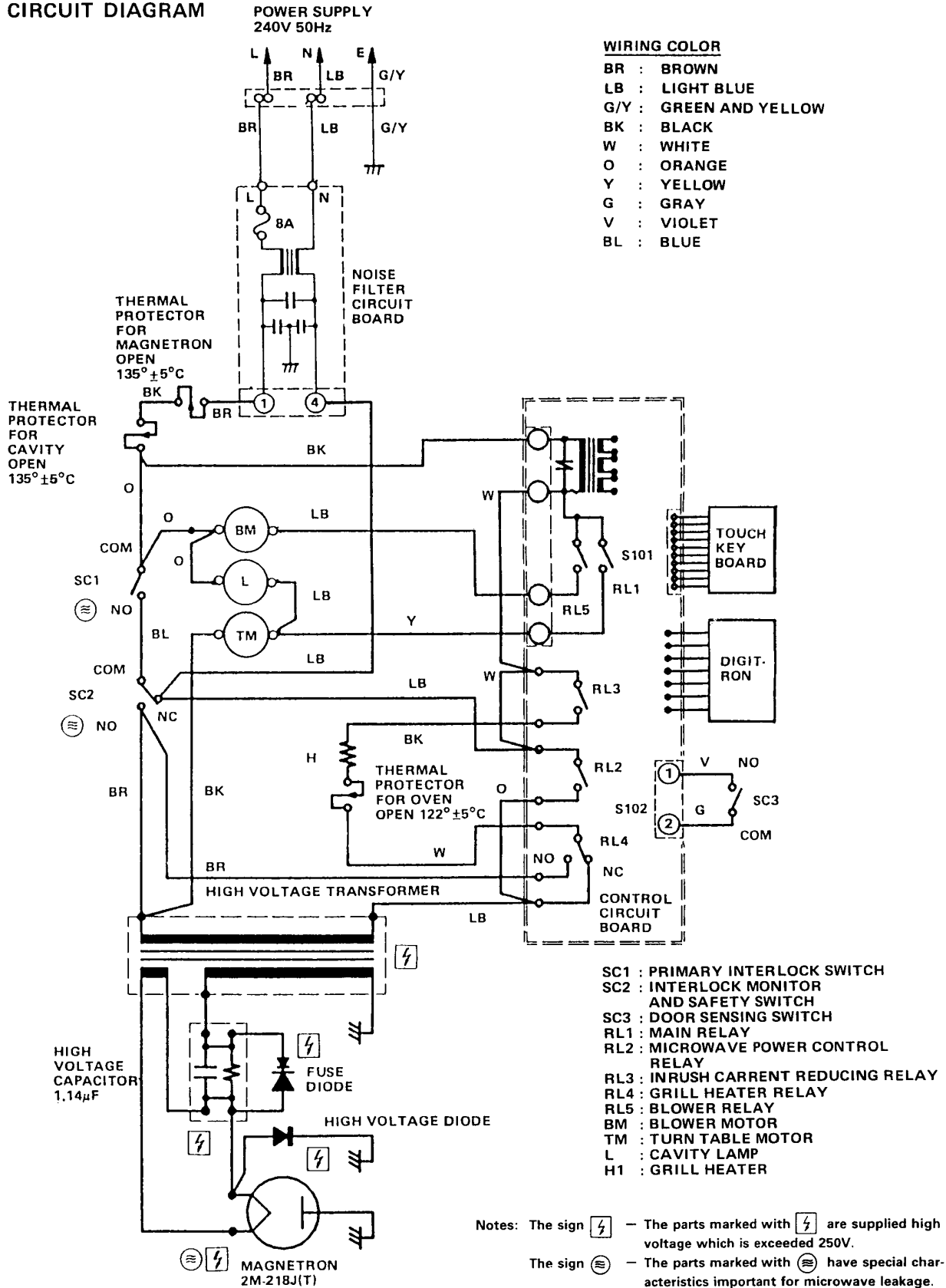


Figure 3

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 4)

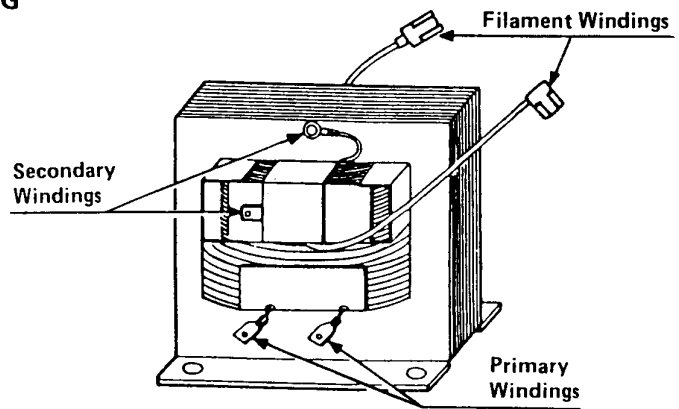
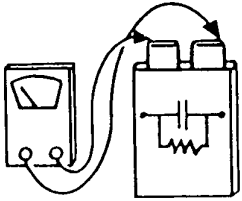
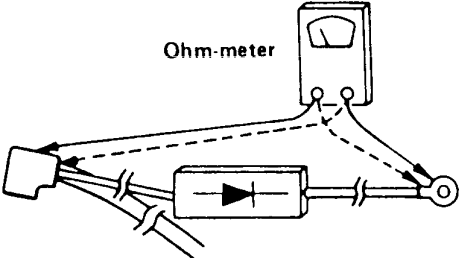
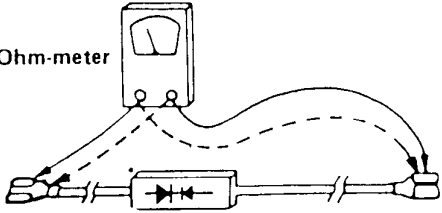


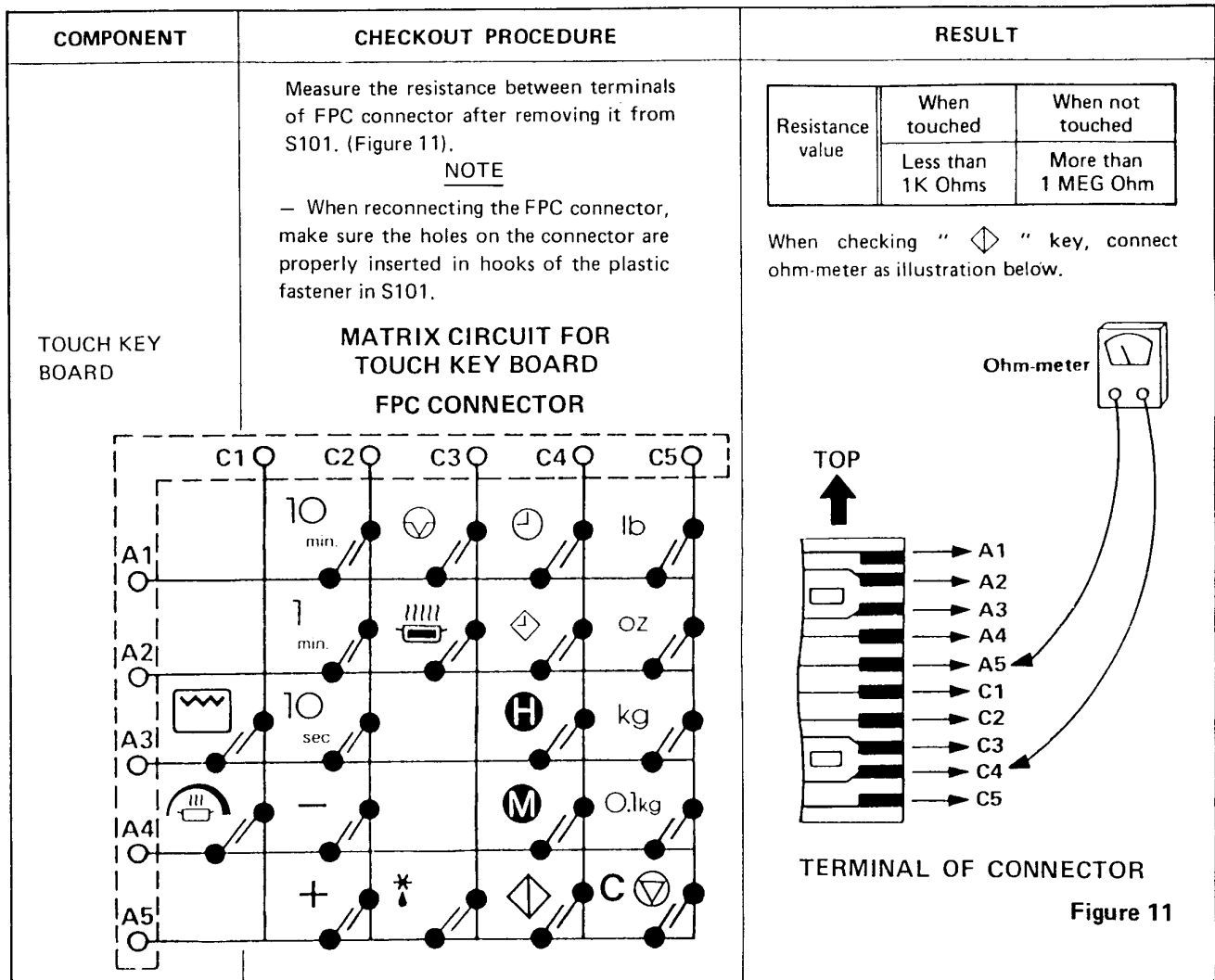
Figure 4

A. TEST PROCEDURES

COMPONENT	CHECKOUT PROCEDURE	RESULT
MAGNETRON	<p>1) Check for resistance: Across the filament terminals of the magnetron with an ohm-meter on R x 1 scale.</p> <p>Figure 5</p> <p>2) Check for resistance: Between each filament terminal of the magnetron and the chassis ground with an ohm-meter on highest scale.</p> <p>Figure 6</p>	<p>Normal reading: Less than 1 ohm.</p> <p>Normal reading: Infinite ohms.</p>
HIGH-VOLTAGE TRANSFORMER	<p>1) Measure the resistance: With an ohm-meter on R x 1 scale.</p> <ol style="list-style-type: none"> Primary winding; Filament winding; Secondary winding; <p>2) Measure the resistance: With an ohm-meter on highest scale.</p> <ol style="list-style-type: none"> Primary winding to ground; Filament winding to ground; <p>Figure 7</p> <p>NOTE: Remove varnish of measured point.</p>	<p>Normal readings:</p> <p>Approximately 1.4 ohms. Less than 1 ohm. Approximately 78.5 ohms.</p> <p>Normal readings:</p> <p>Infinite ohms. Infinite ohms.</p>

COMPONENT	CHECKOUT PROCEDURE	RESULT										
<p>HIGH-VOLTAGE CAPACITOR including BLEEDER RESISTOR</p>	<p>Measure the resistance: Across two terminals with an ohm-meter on highest scale.</p>  <p style="text-align: center;">Figure 8</p>	<p>Normal reading: Momentarily indicates several ohms, and gradually returns to 10 meg-ohms.</p> <p>Abnormal reading: Indicates continuity or 10 meg-ohms from the beginning.</p>										
<p>HIGH-VOLTAGE DIODE</p>	<p>Measure the resistance: Across two terminals with an ohm-meter on R x 10,000 scale.</p>  <p style="text-align: center;">Figure 9</p>	<p>Normal reading: Indicates about the middle position in one direction (forward direction) and infinite ohms in the reverse direction, using meter which is provided with a 9-volt battery.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>– Some digital meter 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.</p> <p>Abnormal reading: Indicates continuity or infinite ohms in both directions.</p>										
<p>FUSE DIODE</p>	<p>Measure the resistance: Across two terminals with an ohm-meter on highest scale.</p>  <p style="text-align: center;">Figure 10</p>	<p>Normal reading: Indicates infinite ohms in both directions.</p> <p>Abnormal reading: Indicates continuity in both directions or continuity in one direction and infinite ohms in reversed direction.</p>										
<p>CONTROL CIRCUIT BOARD</p>	<p>Measure the voltage: Between test points TP-1, TP-2 or TP-3 and ground or between TP-4 and TP-5. (See control circuit board on page 20)</p> <p style="text-align: center;"><u>NOTE</u></p> <p>– Proceed with the check of the step-down transformer, to see if any one of the measured values is different from the specified values.</p>	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Test Point</th> <th>TP-1</th> <th>TP-2</th> <th>TP-3</th> <th>TP-4/ TP-5</th> </tr> </thead> <tbody> <tr> <td>Voltage</td> <td>–5V DC</td> <td>–12V DC</td> <td>–30V DC</td> <td>2.0V AC</td> </tr> </tbody> </table>	Test Point	TP-1	TP-2	TP-3	TP-4/ TP-5	Voltage	–5V DC	–12V DC	–30V DC	2.0V AC
Test Point	TP-1	TP-2	TP-3	TP-4/ TP-5								
Voltage	–5V DC	–12V DC	–30V DC	2.0V AC								

GRILL 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 37 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 187 ohms.
TURN TABLE MOTOR	Measure the resistance: After removing the lead wires from the turn table motor with an ohm-meter on highest scale.	Normal reading: Approximately 17K ohms.



CHECKOUT PROCEDURE FOR SWITCHES

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

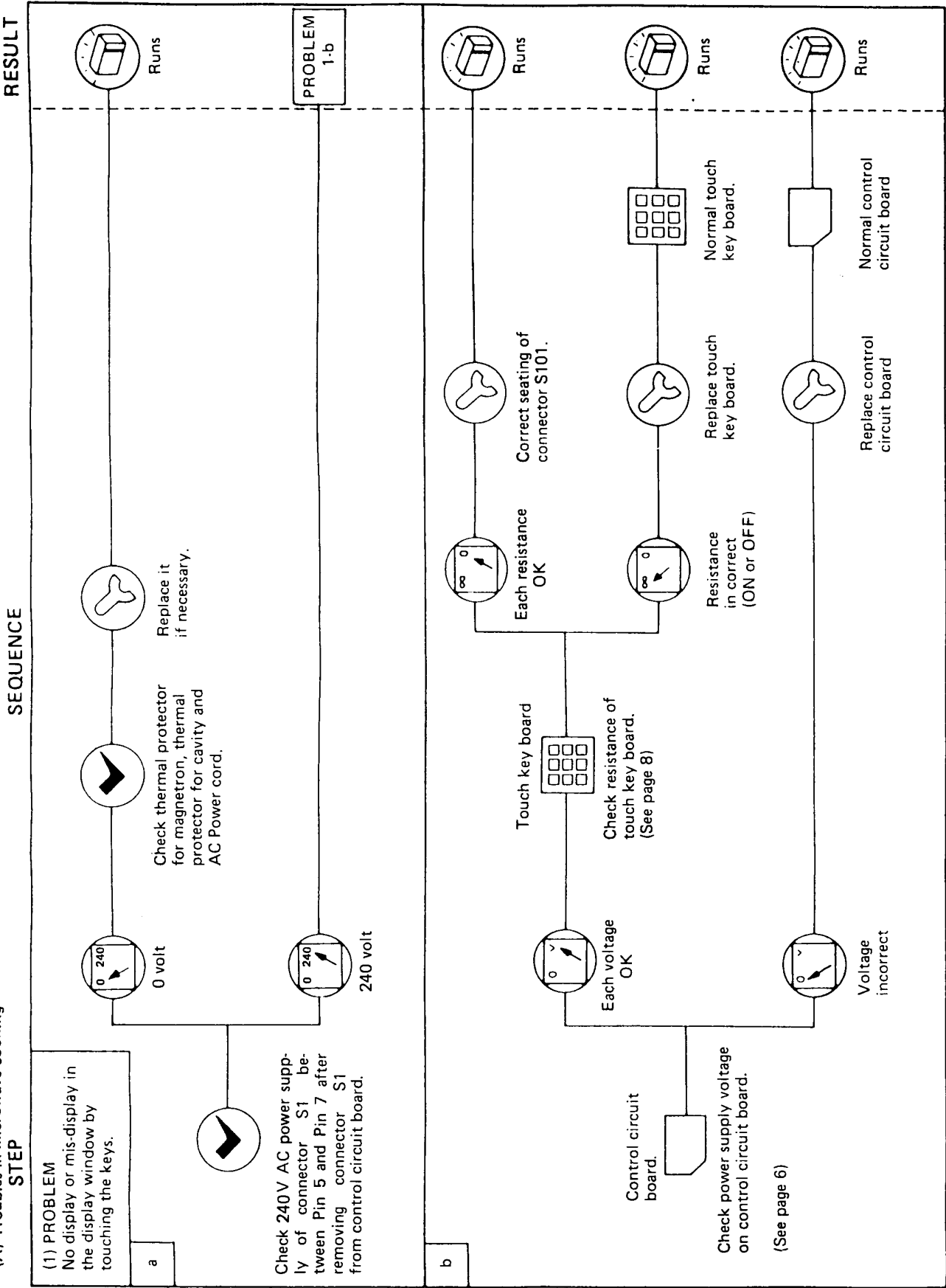
SWITCHES (SEE Figure 1 on page 1)	CHECKOUT PROCEDURES	DOOR OPEN	DOOR CLOSE
Primary Interlock	Terminals "COM" and "NO"		
Door Sensing			
*Safety			
*Interlock Monitor	Terminals "COM" and "NC"		

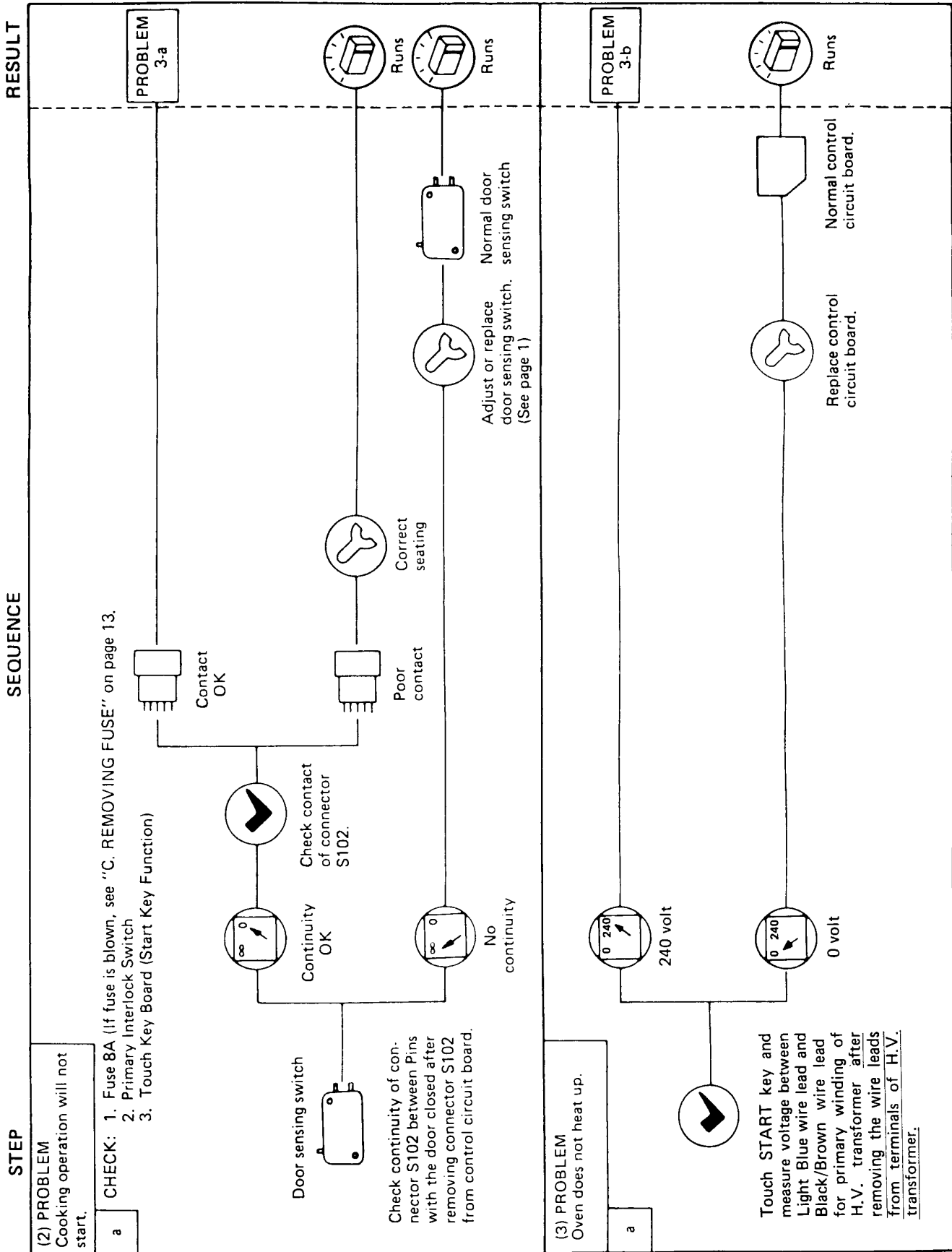
NOTE: *Interlock Monitor Switch and Safety Switch are installed in a single case. (See Page 1)

CAUTION: After checking the switches, make sure that the interlock monitor switch is properly connected according to the CIRCUIT DIAGRAM on page 3.

B. TROUBLESHOOTING

(A) Troubles in microwave cooking

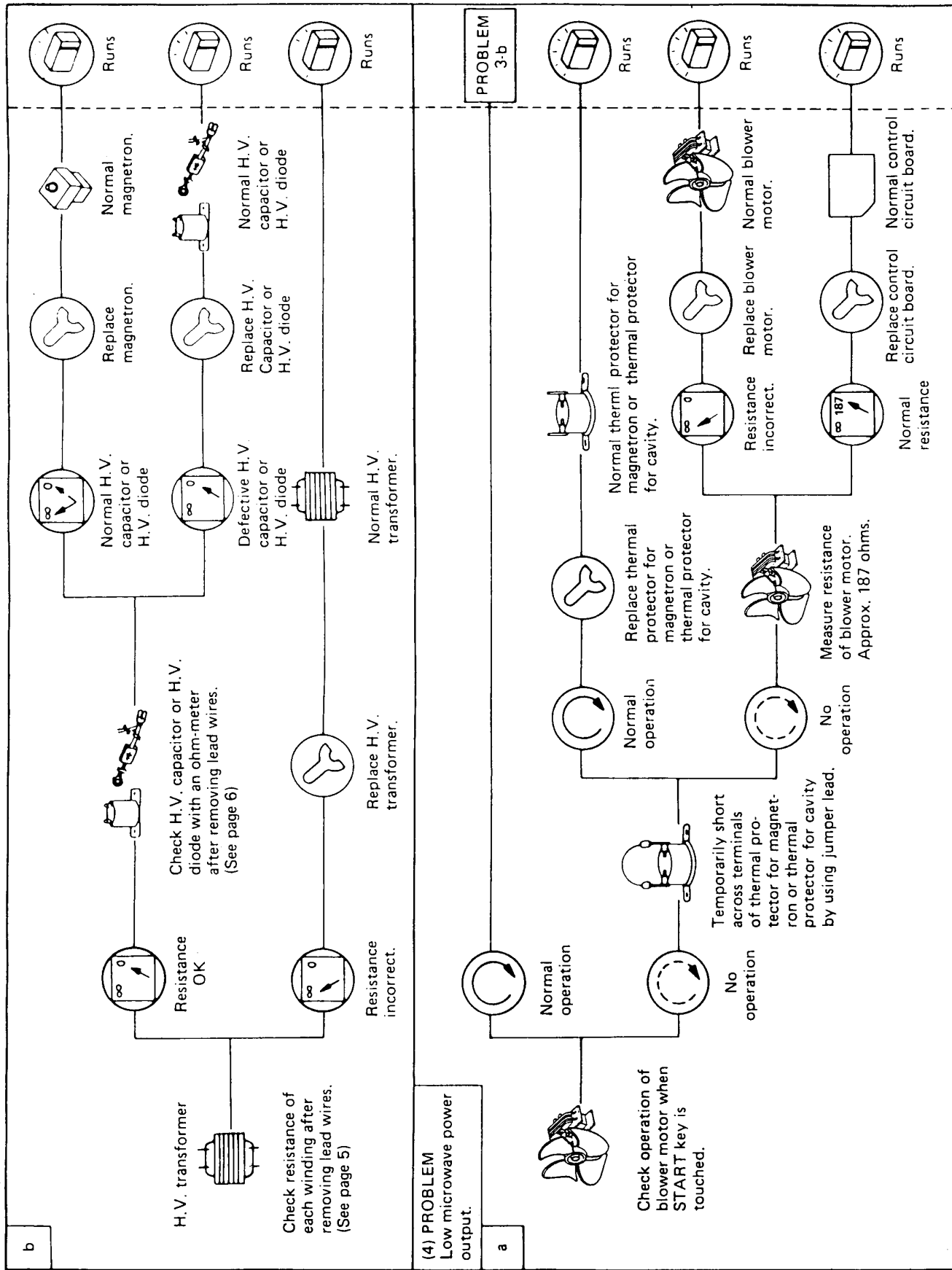




STEP

SEQUENCE

RESULT



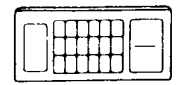
STEP

SEQUENCE

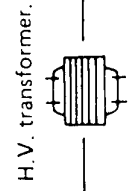
RESULT

(5) PROBLEM
The magnetron operates on high level when a lower cook power is selected.

a

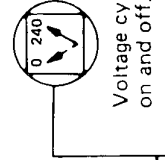


Set power level at low.

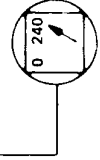


H.V. transformer.

Touch START key and measure voltage between Light Blue wire lead and Black/Brown wire leads for primary winding of H.V. transformer after removing the wire leads from terminals of H.V. transformer.



Voltage cycles on and off.



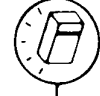
240 volt



Replace control circuit board.



Normal control circuit board.

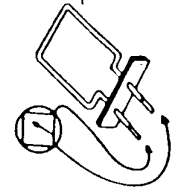


Runs

No problem. Measure water temperature rise exactly.

(6) PROBLEM
Unit does not heat up even if display counts down when START key is touched for "Grill Cooking".

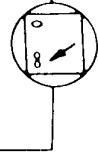
a



Check resistance of heater. :Approx. 37 ohms



Normal resistance



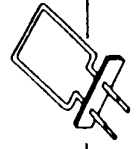
Resistance incorrect.



Replace power or control circuit board.



Normal power or control circuit board.



Normal heater



Runs



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 MICROSWITCH, REPLACE WITH THE SAME TYPE SWITCH SPECIFIED ON THE PARTS LIST.

A. REMOVING PRIMARY INTERLOCK SWITCH, INTERLOCK MONITOR AND SAFETY SWITCH AND THE DOOR SENSING 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, the interlock monitor and safety switch and the door sensing switch.
- (3) Rotate counterclockwise the primary interlock switch while pressing the switch stopper of the lever stopper. Then, remove the primary interlock switch.
- (4) Remove the interlock monitor and safety switch by reference to the step (3).
- (5) Remove the door sensing switch by reference to the step (3).
- (6) Make necessary adjustment, and make microwave energy leakage check according to "1. ADJUSTMENT PROCEDURES" on page 1, after it is replaced with new one, and check proper operation of it according to "CHECKOUT PROCEDURE FOR SWITCHES" on page 8.

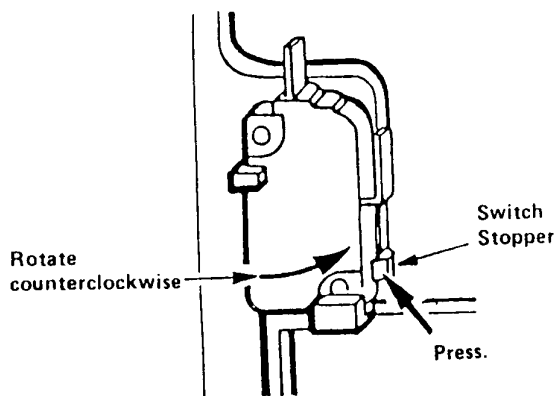


Figure 12

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

B. REMOVING MAGNETRON

(See exploded view on page 15)

- (1) Remove 2 screws securing the thermal protector.
- (2) Disconnect 2 lead wires from the magnetron.
- (3) Remove 1 screw securing the diode to the magnetron.
- (4) Remove 2 screws securing the space partition (with blower) to the rear plate and top of the Cavity.
- (5) Remove the space partition (with blower).
- (6) Remove 3 screws securing the duct to the magnetron.
- (7) Remove 4 hex nuts securing the magnetron to the waveguide.
- (8) Take out magnetron VERY CAREFULLY.

NOTES

- When removing the magnetron, make sure that its dome does not hit any adjacent parts, or it may be damaged.
- When replacing the magnetron, be sure to install the magnetron gasket in the correct position and be sure that the gasket is in good condition.
- After replacing the door, check for microwave energy leakage with a leakage detector. Microwave energy leakage must be below the limit of 5 mW/cm².

C. REMOVING FUSE

Remove the 8A fuse with a screwdriver.

NOTES

- 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 8, 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 and safety switch is repaired and 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, turn table 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 fuse diode.

D. REMOVING GRILL HEATER

(See exploded view on page)

- (1) Remove 4 hex nuts securing the grill heater complete from inside of the oven cavity.
- (2) Disconnect all lead wires from the grill heater.
- (3) Take out grill heater.

E. REMOVING DOOR

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

NOTES

- After replacing the door, be sure to check that the primary interlock switch, the interlock monitor and safety switch and the door sensing 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 5 mW/cm.

F. DISASSEMBLYING DOOR

(See exploded view on page 21)

- (1) Insert a thin flat-blade screwdriver between the dielectric choke and the door main frame and lift up the dielectric choke to release hooks one by one.
- (2) Remove 3 screws securing the door cover to the door main frame.

NOTES

- The choke dielectric may be damaged when it is removed.
- When reinstalling the choke dielectric, change the dielectric choke if it is 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 5 mW/cm².

G. REMOVING TURNTABLE MOTOR COVER

- (1) Turn the unit and cut the 8-joints of the bottom plate and the motor cover using diagonal pliers (nipper).
- (2) Separate the motor cover and the bottom plate.

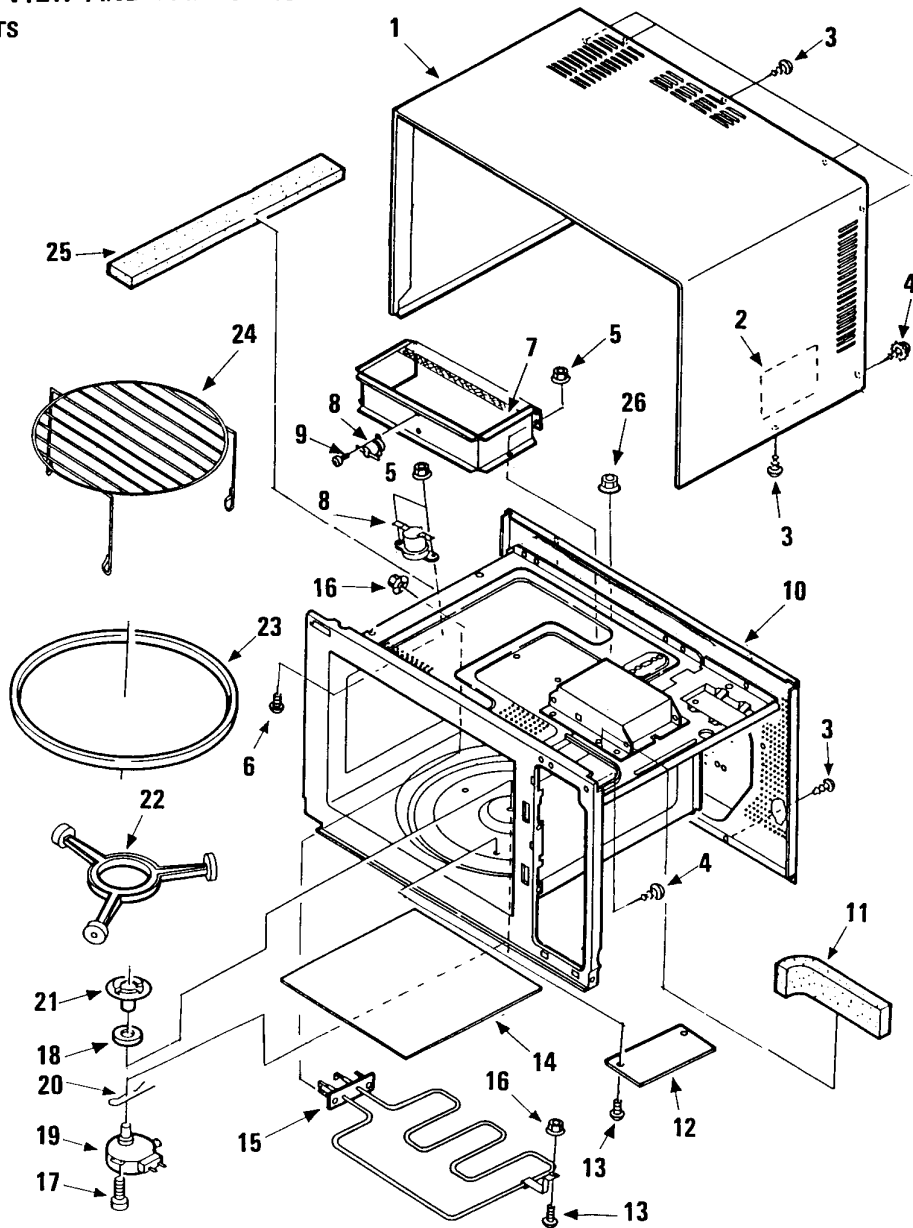
NOTE

- Bent the cut joints inside slightly for safety and be careful of sharp edge.

RE-INSTALL:

- (1) Remove 1 screw that is attached to the bottom plate.
- (2) Insert the edge of motor cover into the tab on the bottom plate.
- (3) Secure the motor cover with it screw to the bottom plate.

**9. EXPLODED VIEW AND PARTS LIST
CAVITY PARTS**

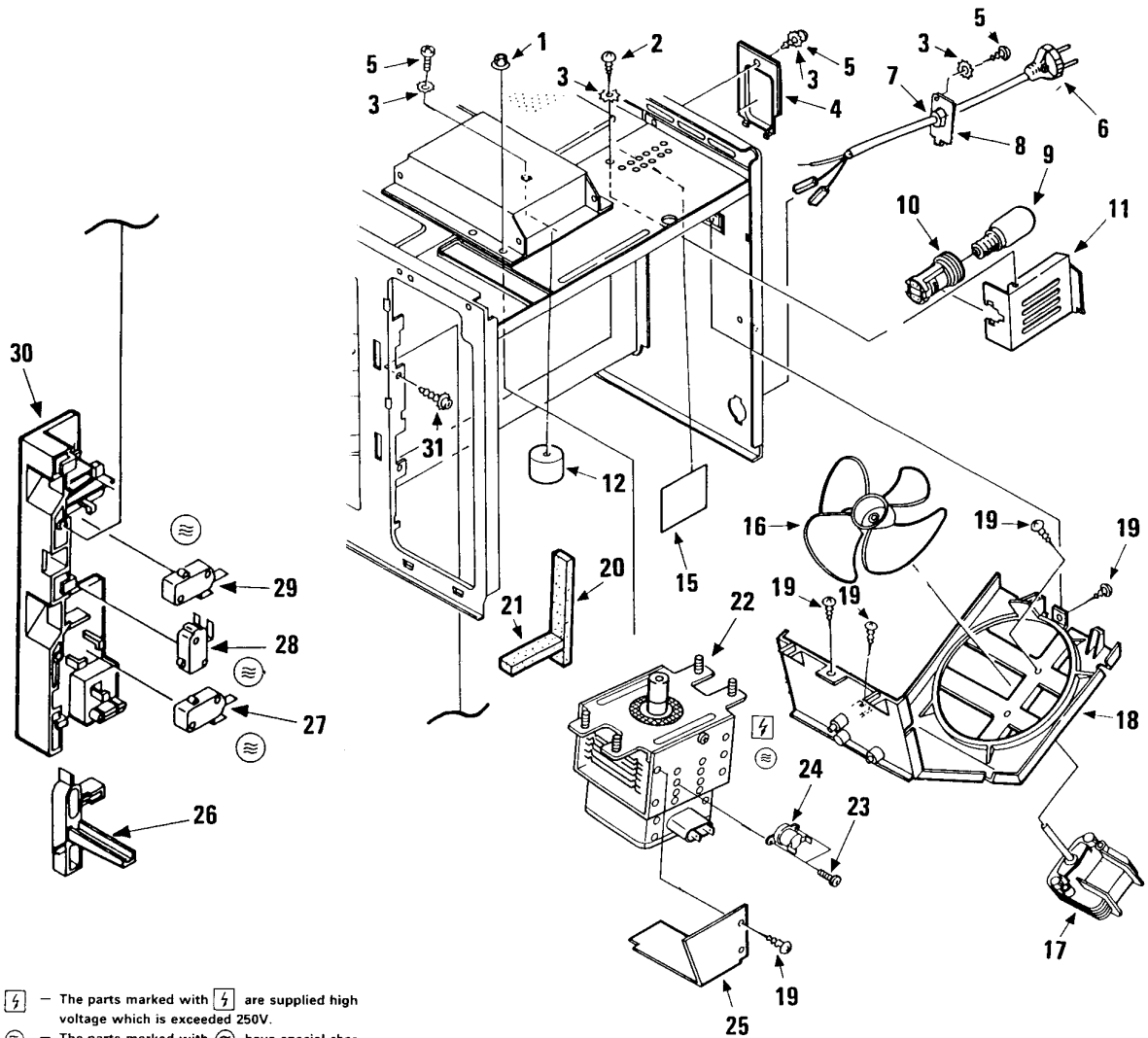




Key No.	Part No.	Description	Q'ty
1	617 122 4528	Cabinet	1
2	617 104 7769	Insulation Sheet	1
3	411 006 9902	SCR TPG TRS 4x10 Z1	6
4	411 110 2608	SCR E-TPG TRS+TW 4x12 Z1	4
5	411 054 1606	Nut HEX+FLG W/SRT 3	7
6	411 125 1207	SCR TPG EVR TRS 3x8	7
7	617 136 4064	Duct, Exhaust	1
8	617 104 5062	Thermostat, 122C Cavity, Grill	2
9	411 070 6005	SCR TPG BIN 3x6	2
10	617 119 5705	Oven Cavity*** (Not service parts)	1
*	617 119 5798	Rear Cover	1
11	617 101 0220	Packing	1
12	617 111 7660	Cavity Cover	1
13	411 051 1906	SCR TRS 4x6 U	2
14	617 128 6410	Cavity Cover, Heter	1



Key No.	Part No.	Description	Q'ty
15	617 140 8294	Heater A'ssy 240V 1300W	1
16	411 053 9306	Nut NEX+FLG W/SRT 4	4
17	411 001 6005	SCR S-TPG PAN 4x8	2
18	617 080 5315	Special Washer	1
19	617 123 9928	Gear Motor	1
20	617 080 6787	Stopper Pin	1
21	617 141 9986	Turn Table Shaft	1
22	617 137 9891	Roller	1
23	617 073 6060	Rotating Tray	1
24	617 134 8507	Grill Net	1
25	617 101 0190	Packing	1
26	411 054 1705	Nut HEX+FLG W/SRT4	2
*	617 144 6944	Name Plate (EM-5646)	1
*	617 145 7865	Name Plate (CG-1856)	1

* Item not illustrated.

SWITCHES AND MICROWAVE PARTS



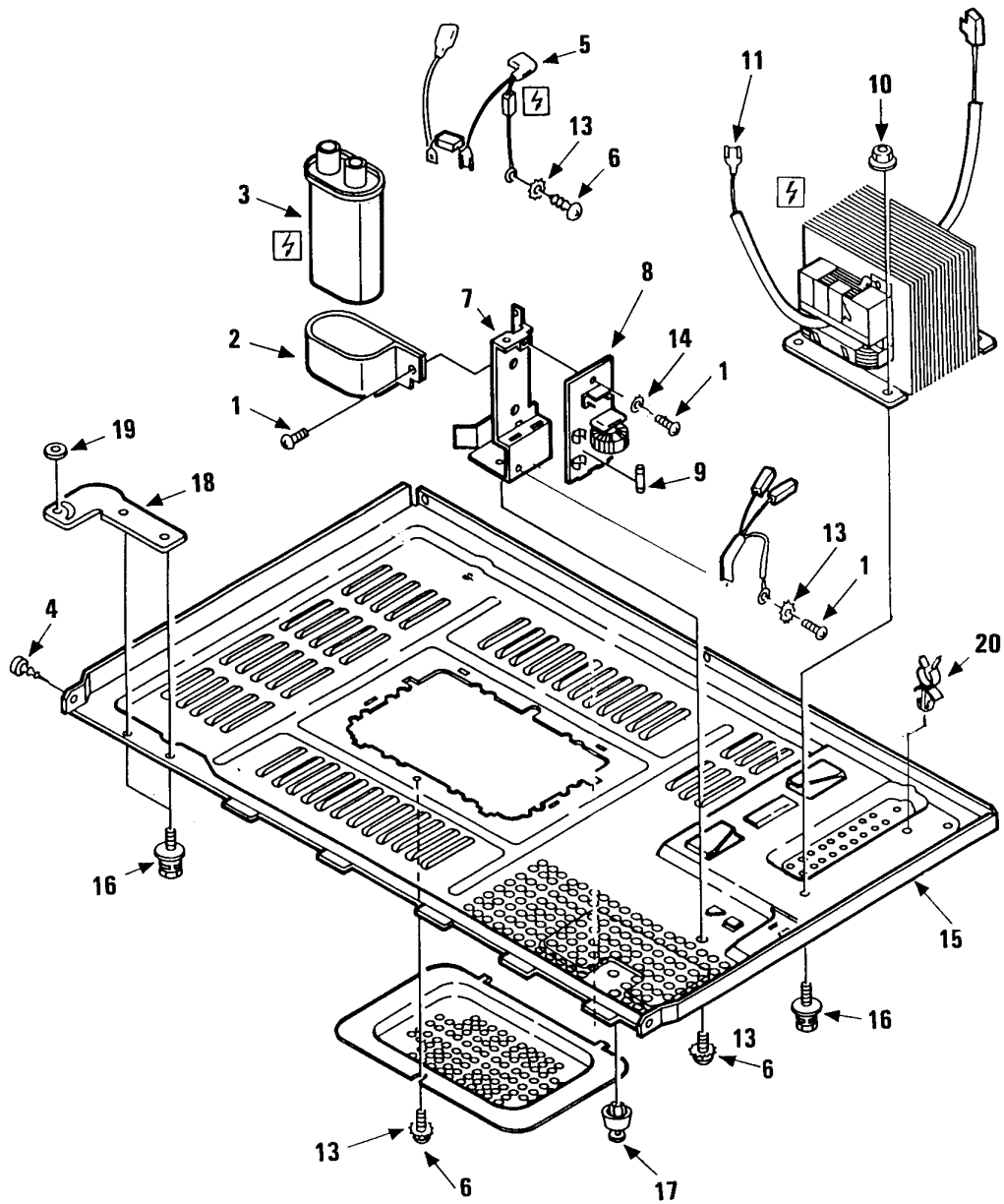
Notes: The sign  — The parts marked with  are supplied high voltage which is exceeded 250V.



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

Key No.	Part No.	Description	Q'ty
1	411 004 3506	NUT HEX+FLG W/SRT 5 Z1	4
2	411 010 7802	SCR TPG EVR TRS 4x12	1
3	411 085 4102	Washer Out TW 4	3
4	617 101 0305	Lamp Cover	1
5	411 001 4704	SCR S-TPG PAN 4x10 Z1	3
6	617 135 7486	Power Supply Cord Complete	1
7	617 122 1039	Cord Bush	1
8	617 122 1046	Bottom Bracket	1
9	617 005 5659	Lamp, 240V 25W	1
or	617 134 8088	Lamp, 240V 25W	1
10	617 119 3480	Lamp Socket	1
11	617 122 4375	Lamp Bracket	1
12	617 134 1799	Stub, Wave guide	1
13			
14			
15	617 124 4861	Light Opening Cover	1
16	617 075 1179	Blower Fan	1
17	617 101 0329	Blower Motor BM-2414EUK	1

Key No.	Part No.	Description	Q'ty
18	617 101 0213	Space Partition, Blower	1
19	411 006 9902	SCR TPG TRS 4x10 Z1	6
20	617 130 0574	Packing	1
21	617 130 0567	Packing	1
22	415 001 8304	Magnetron, 2M218J(T)Z***	1
23	411 010 5600	SCR EVR PAN 3x6 Z1	2
24	617 002 1364	Thermostat, Magnetron, 135C	1
25	617 106 0683	Duct, Mag. Exhaust	1
26	617 101 0275	Latch Lever***	1
27	617 004 5773	Micro Switch, Primary Interlock V-5230D-082***	1
28	617 134 1768	Micro Switch, Interlock Monitor and Safety V-5210D***	1
29	617 112 4583	Micro Switch, Door Sensing V-5230D-103***	1
30	617 144 0980	Lever Stopper***	1
31	411 110 2608	SCR TRS TPG 4x12 Z1	2

MICROWAVE PARTS

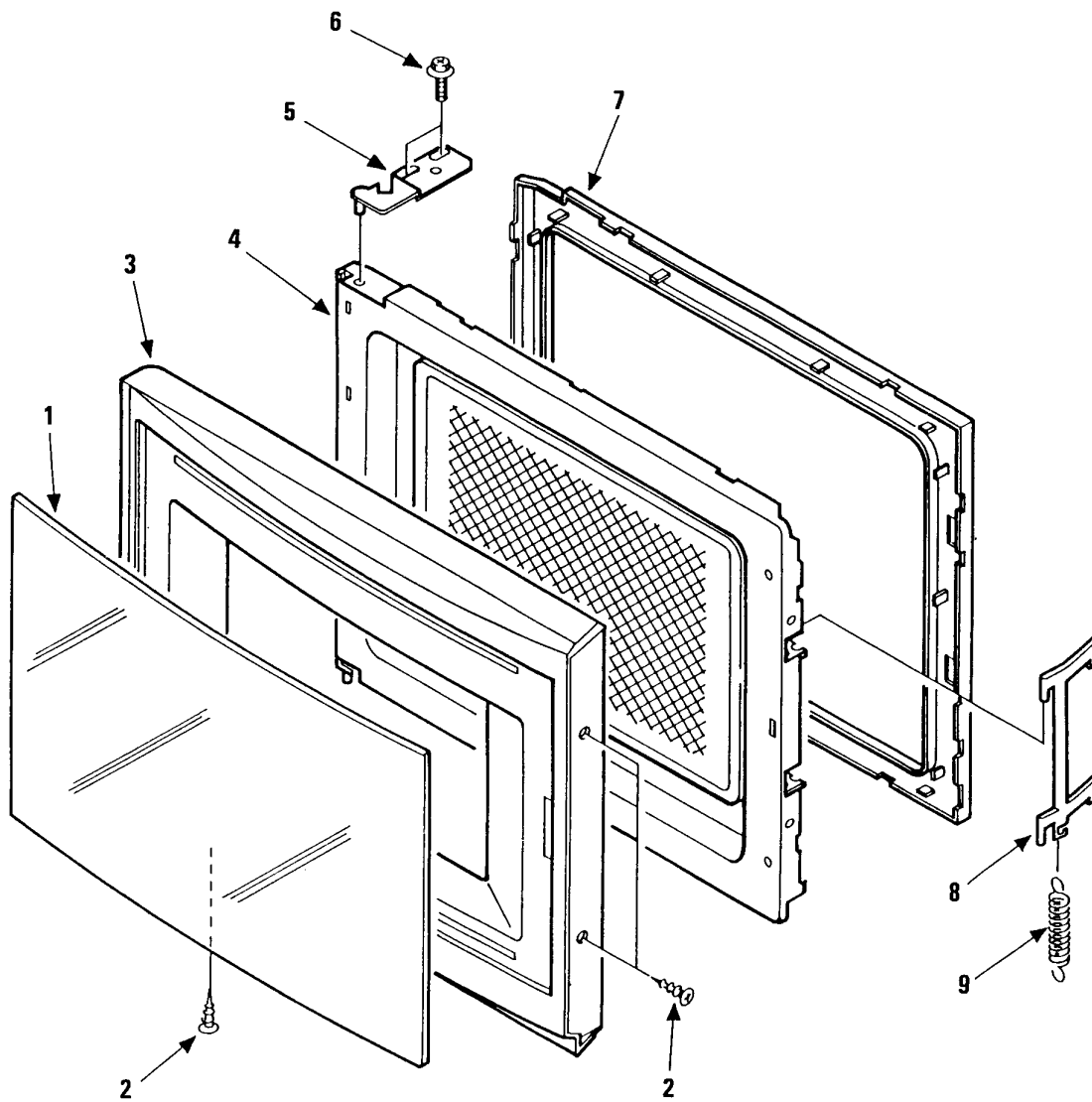


Notes: The sign  — The parts marked with  are supplied high voltage which is exceeded 250V.

Key No.	Part No.	Description	Q'ty
1	411 006 9902	SCR TRS TPG 4x10 Z1	2
2	617 103 9146	Capacior Band	1
3	617 134 1751	High Voltage Capacitor including Resistor 1.14ufd 2.1Kv	1
4	411 006 2804	SCR TAP BIN 4x10 Z1	2
5	617 130 5258	Lead Wire A'ssy with Diode	1
6	411 001 4704	SCR S-TPG PAN 4x10 Z1	3
7	617 103 9139	Terminal Bracket	1
8	617 124 0641	Terminal Circuit board Complete	1
9	111 111 1111	Fuse 250V 8.0A	1
10	411 004 3506	NUT HEX+FLG W/SRT5 Z1	2

Key No.	Part No.	Description	Q'ty
11	617 115 1596	High Voltage Transformer, H5T-5740EUK	1
12	617 001 6005	SCR S-TPG 4x8	1
13	411 085 4102	Washer Out TW4	4
14	411 008 1508	Spring Washer 4mm	1
15	617 100 5202	Bottom Plate	1
16	412 018 2103	Bolt HEX C-SCT 5x16	4
17	617 117 6421	Plastic foot	4
18	617 100 9897	Hinge, Lower	1
19	617 107 4260	Special Washer	1
20	617 115 3385	Wire Clip	2

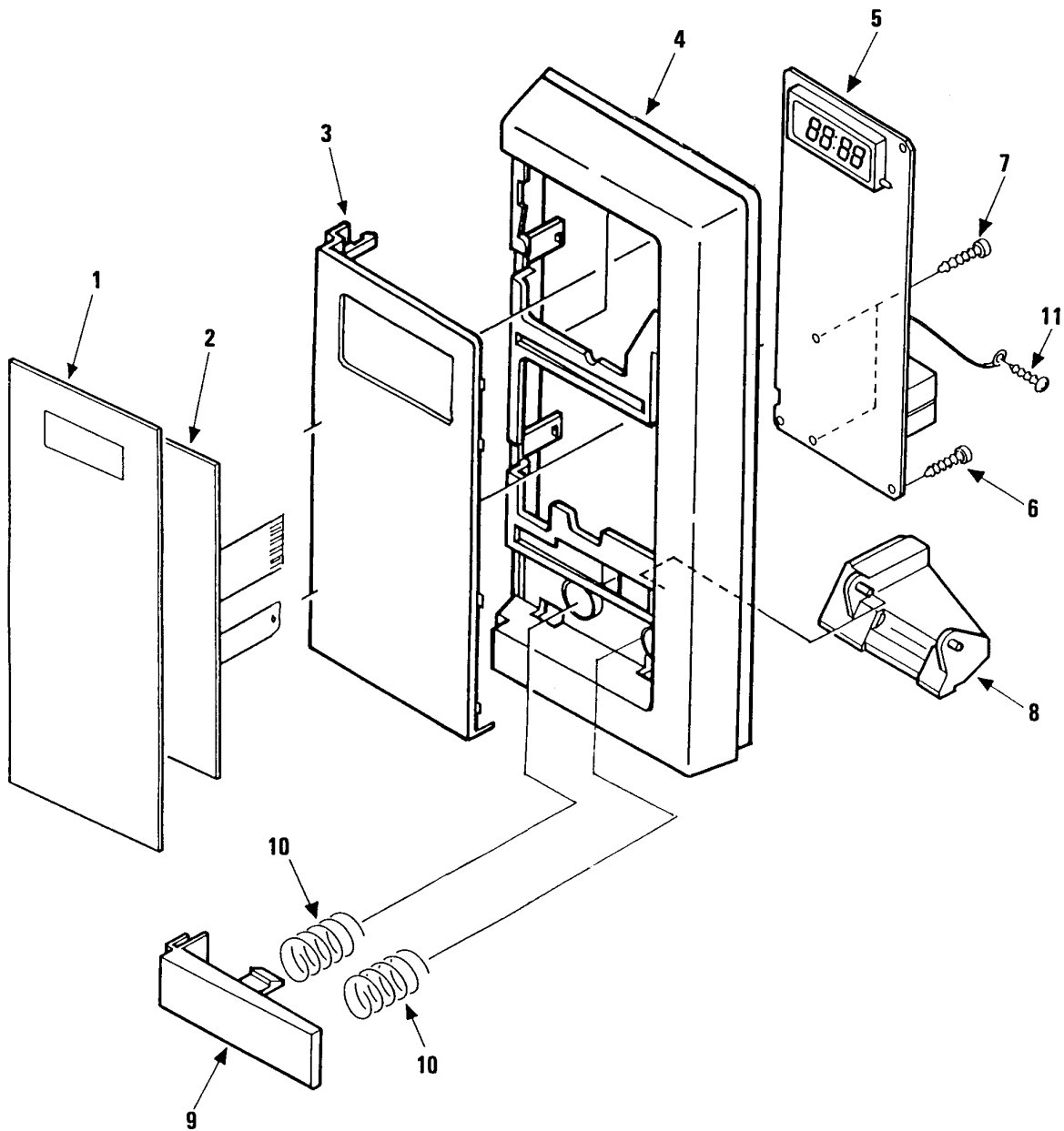
DOOR PARTS



Key No.	Part No.	Description	Q'ty
1	617 146 0889	Plastic Barrier (EM-5646)***	1
1	617 146 4146	Plastic Barrier (CG-1856)***	1
2	411 071 9104	SCR TPG FLT 3x8	3
3	617 144 6920	Door Cover	1
4	617 141 7821	Door Main Frame with Door panel***	1
*	617 136 3913	Door panel	
5	617 103 8934	Hinge, Upper***	1

Key No.	Part No.	Description	Q'ty
6	617 102 7495	Special Screw	2
7	617 135 6243	Choke Dielectric***	1
8	617 139 9530	Door Latch	1
9	617 135 8285	Spring***	1
*	617 144 6913	Door Assembly (EM-5646)	1
*	617 144 7871	Door Assembly (CG-1856)	1

CONTROL PANEL PARTS



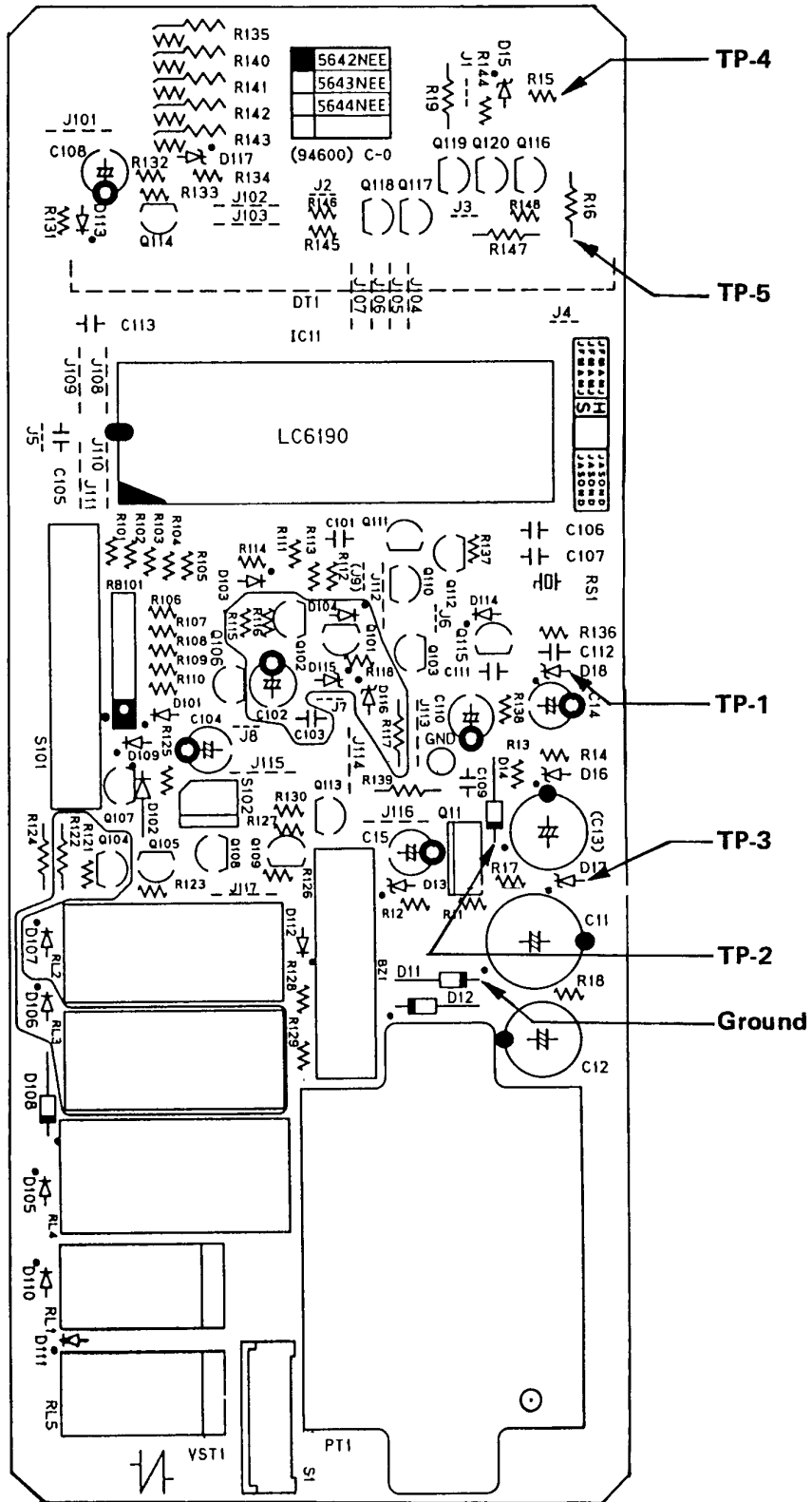
Key No.	Part No.	Description	Q'ty
1	617 144 6975	Control Sheet (EM-5646)***	1
1	617 144 7902	Control Sheet (CG-1856)***	1
2	617 144 6999	Touch Key Board***	1
3	617 144 7002	Control Plate (EM-5646)***	1
3	617 144 7896	Control Plate (CG-1856)*(U58)*	1
4	617 144 6982	Control Frame***	1
5	617 136 3975	Control Circuit Board Complete	1

Key No.	Part No.	Description	Q'ty
6	411 070 6609	SCR TPG BIN 3x8 Z1	1
7	411 070 4506	SCR TPG BIN 3x14 Z1	2
8	617 144 0959	Latch Lever***	1
9	617 144 6968	Door Release Lever (EM-5646)***	1
9	617 144 7889	Door Release Lever (CG-1856)***	1
10	617 080 9559	Spring, Door Release Lever***	2
11	411 001 4704	SCR S-TPG PAN 4x10	1

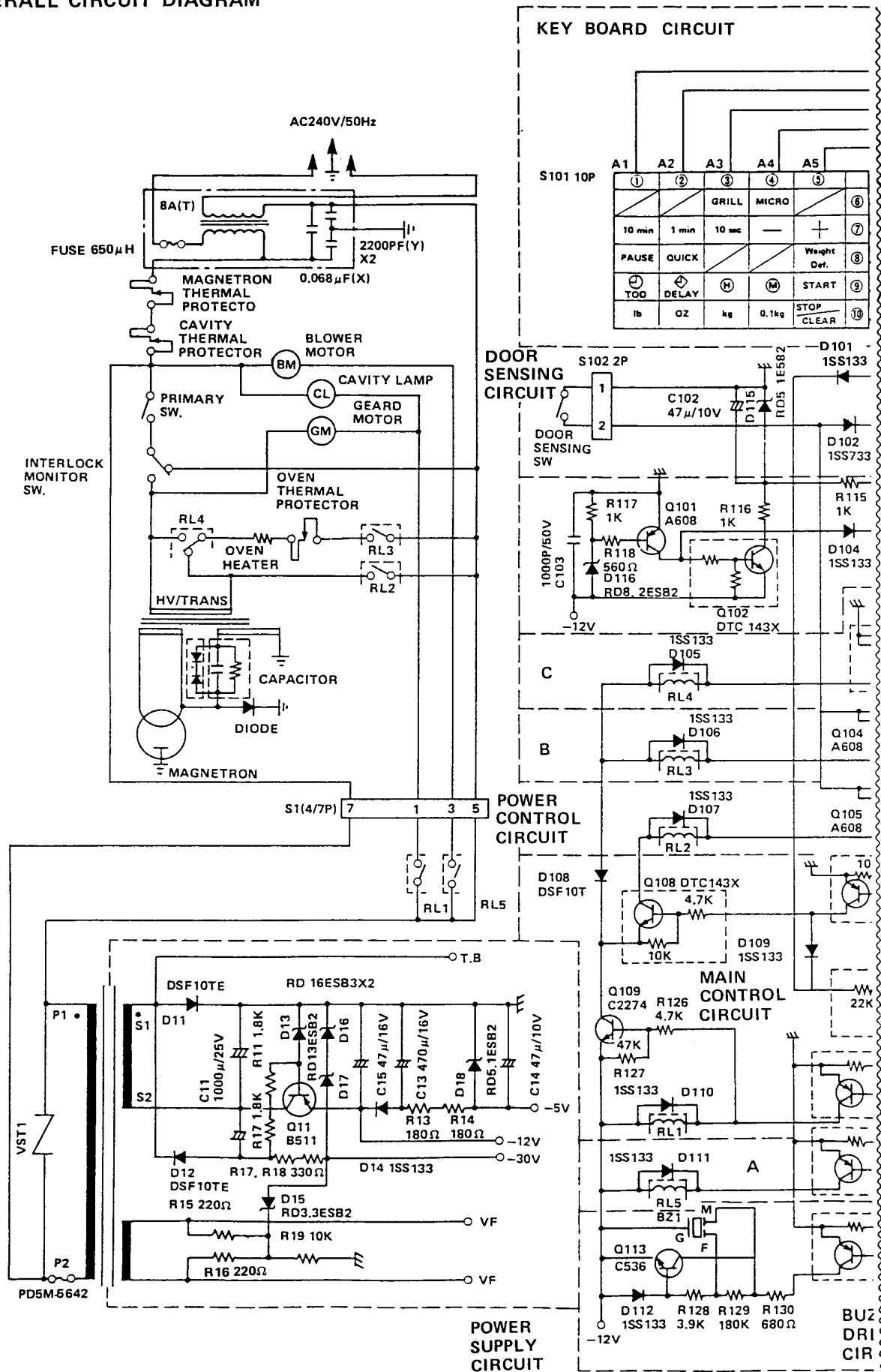
PRINTED MATTER (Items Not Illustrated)

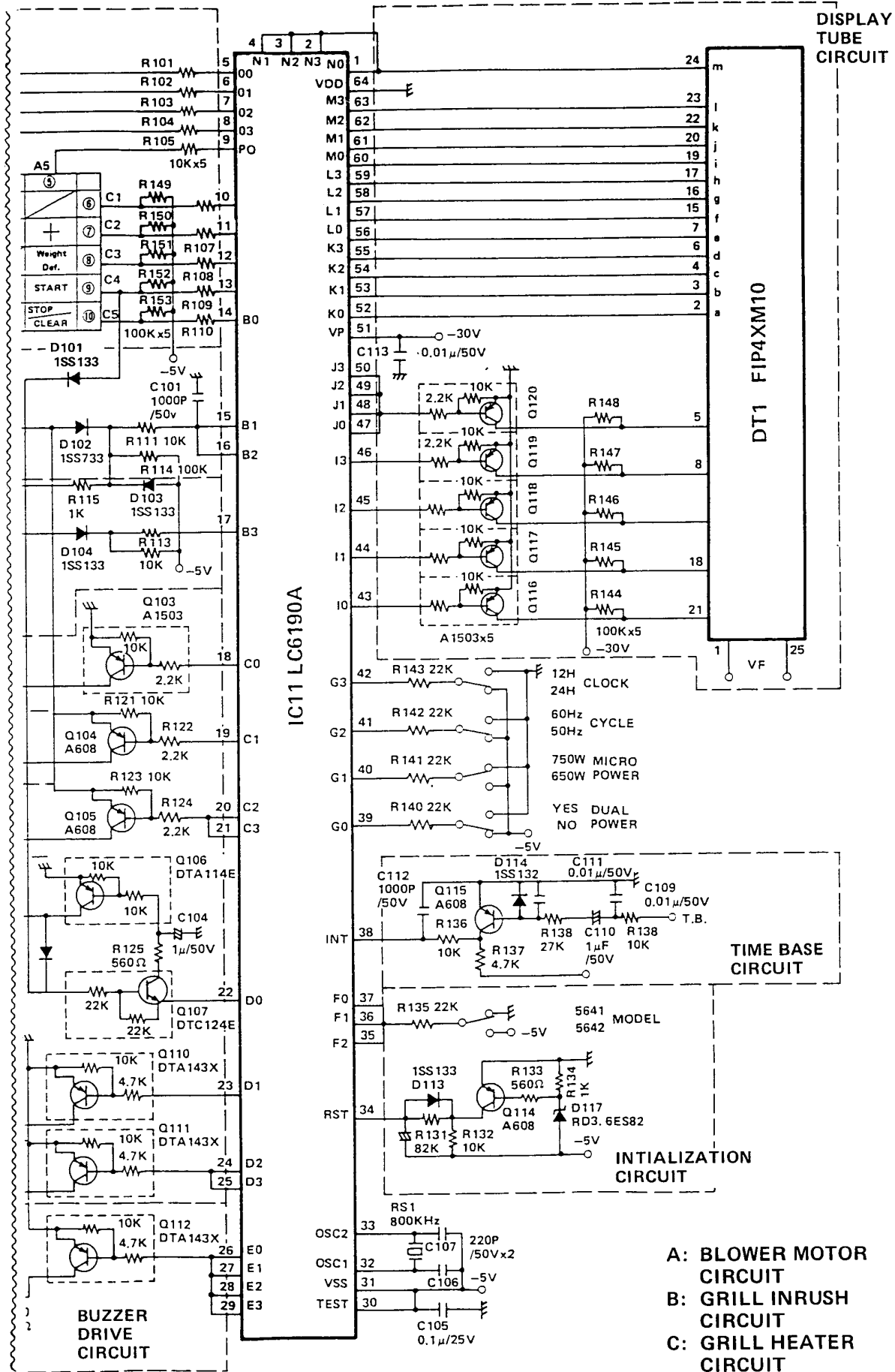
Key No.	Part No.	Description	Q'ty
	617 144 7040	Operating Instructions	1
	617 137 9877	Carton Box	1

CONTROL CIRCUIT BOARD
 (Part No. 617 136 3975)



10. OVERALL CIRCUIT DIAGRAM





- A: BLOWER MOTOR CIRCUIT
- B: GRILL INRUSH CIRCUIT
- C: GRILL HEATER CIRCUIT

SANYO

SANYO Electric Co., Ltd.
Osaka, Japan