S/M No. : OC9Q3T7S01

Service Manual

Microwave Oven

Model:

KOC-9Q4T

✔ **Caution**

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

DAEWOO ELECTRONICS

Mar. 2010

2. SPECIFICATIONS

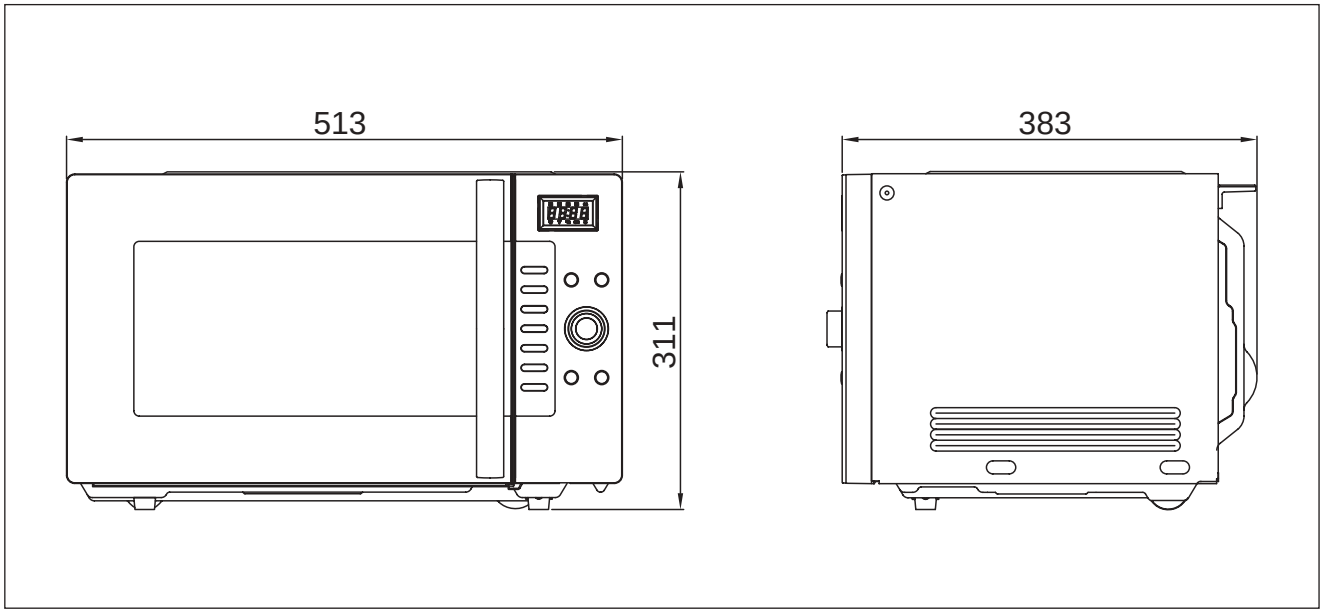
MODEL		KOC-9Q4T
POWER SUPPLY		230V~50Hz, SINGLE PHASE WITH EARTHING
POWER CONSUMPTION	MICROWAVE	1400W
	GRILL	1250W
	CONVECTION	1250W
	COMBINATION	2700W
MICROWAVE ENERGY OUTPUT		900W (IEC 705)
MICROWAVE FREQUENCY		2450MHz
OUTSIDE DIMENSIONS (W X D X H)		513X383X311mm(20.2X15.1X12.2 in.)
CAVITY DIMENSIONS (W X D X H)		354X341X231mm(13.9X13.4X9.1 in.)
NET WEIGHT		Approx. 16.6Kg (46.6 lbs.)
TIMER		60 minutes
FUNCTION SELECTIONS		Microwave / Grill / Convection / Combination
POWER SELECTIONS		10 LEVELS
CAVITY VOLUME		0.99 Cu. Ft

** SPECIFICATION ARE SUBJECT TO CHANGE WITHOUT NOTICE.*

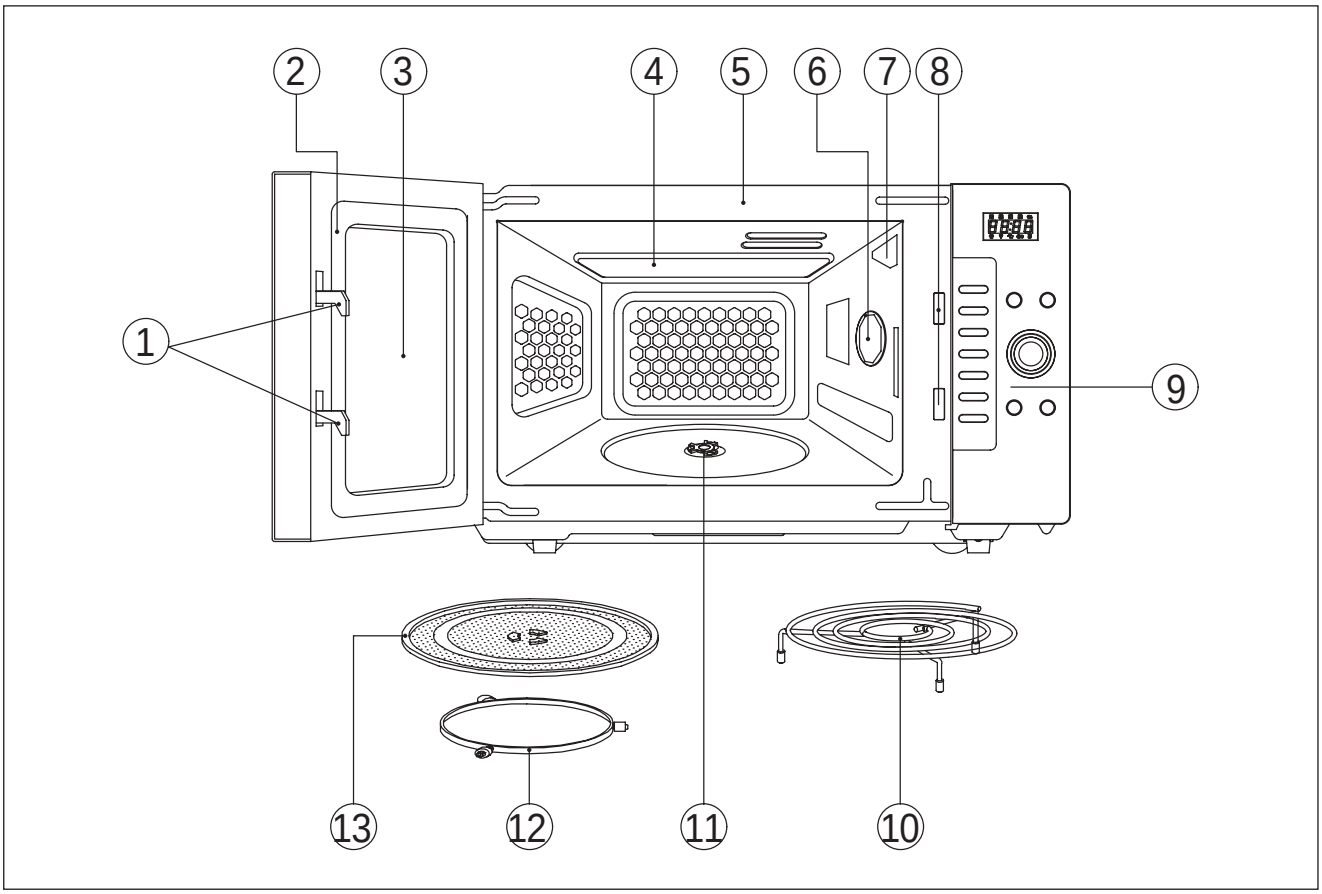
3. EXTERNAL VIEW

1. OUTER DIMENSION

2) KOC-9Q4T



2. FEATURE DIAGRAM



1. DOOR HOOK
Hook automatically locks and holds the door when the door shuts. If the door opens while the oven is operating, the oven will stop operating immediately.

2. DOOR SEAL
Door seal prevents the microwave leakage from the oven cavity.

3. DOOR VIEWING SCREEN
Food, inside of oven, can be observed through the door viewing screen. It is designed that the microwave cannot pass through the screen.

4. TOP HEATER
Top heater turns on if any of heater related mode operates.

5. OVEN FRONT PLATE

6. CONVECTION INLET

7. OVEN LAMP
Oven lamp turns on anytime the door opens and oven operates.

8. SAFETY INTERLOCK SYSTEM

9. CONTROL PANEL

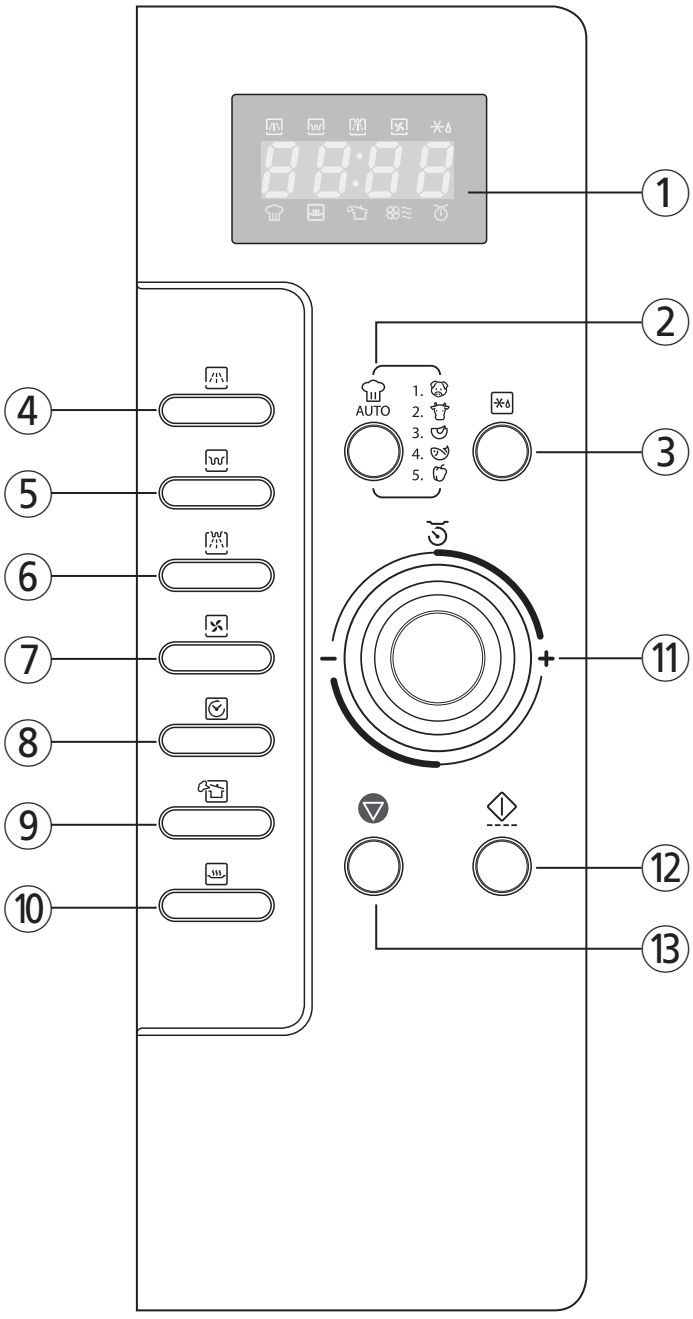
10. METAL RACK

11. COUPLER
Coupler located at the center of the oven cavity and it couples between the motor and the glass tray.

12. ROLLER GUIDE
Roller guide must be used anytime with the glass tray.

13. GLASS TRAY
Glass tray is made of special heat resistant glass material. It must be always properly fitted with the coupler and the roller guide.

2) KOC-9Q4T



① **Display :** Cooking time, power level, program indicators and present time are displayed.
MW ( ): When blinking, the oven is operating in MICROWAVE COOK mode.
Grill ( ): When blinking, the oven is operating in GRILL mode.
Combi ( ): When blinking, the oven is operating in COMBI mode.
Convection ( ): When blinking, the oven is operating in CONVECTION mode.
Defrost ( ): When blinking, the oven is operating in DEFROST mode.
Auto-cook ( ): When blinking, the oven is operating in AUTO COOK mode.
Warm ( ): When blinking, the oven is operating in WARM mode.
Steam Cleaning ( ): When blinking, the oven is operating in STEAM CLEANING mode.
gram ( ): When blinking, the oven is operating in weight input mode.

② **Auto cook :** Used to cook or reheat.

③ **Defrost :** Used to defrost foods.

④ **MW :** Used to set power level of the microwave.

⑤ **Grill :** Used to select grill mode.

⑥ **Combi :** Used to select combi mode.

⑦ **Convection :** Used to select convection mode and selected temp.

⑧ **Clock :** Used to set clock.

⑨ **STEAM CLEANING :** Used to clean the inside of the oven.

⑩ **Warm or Dish Warm :** Used to keep the food or dish warm.

⑪ **Dial knob :** Used to set time, weight and quantity.

⑫ **START/SPEEDY COOK :** Used to start a program or a speedy start(each press adds 30 seconds of microwave cooking time).

⑬ **STOP/CLEAR :** Used to stop the oven operation or to delete the cooking data.

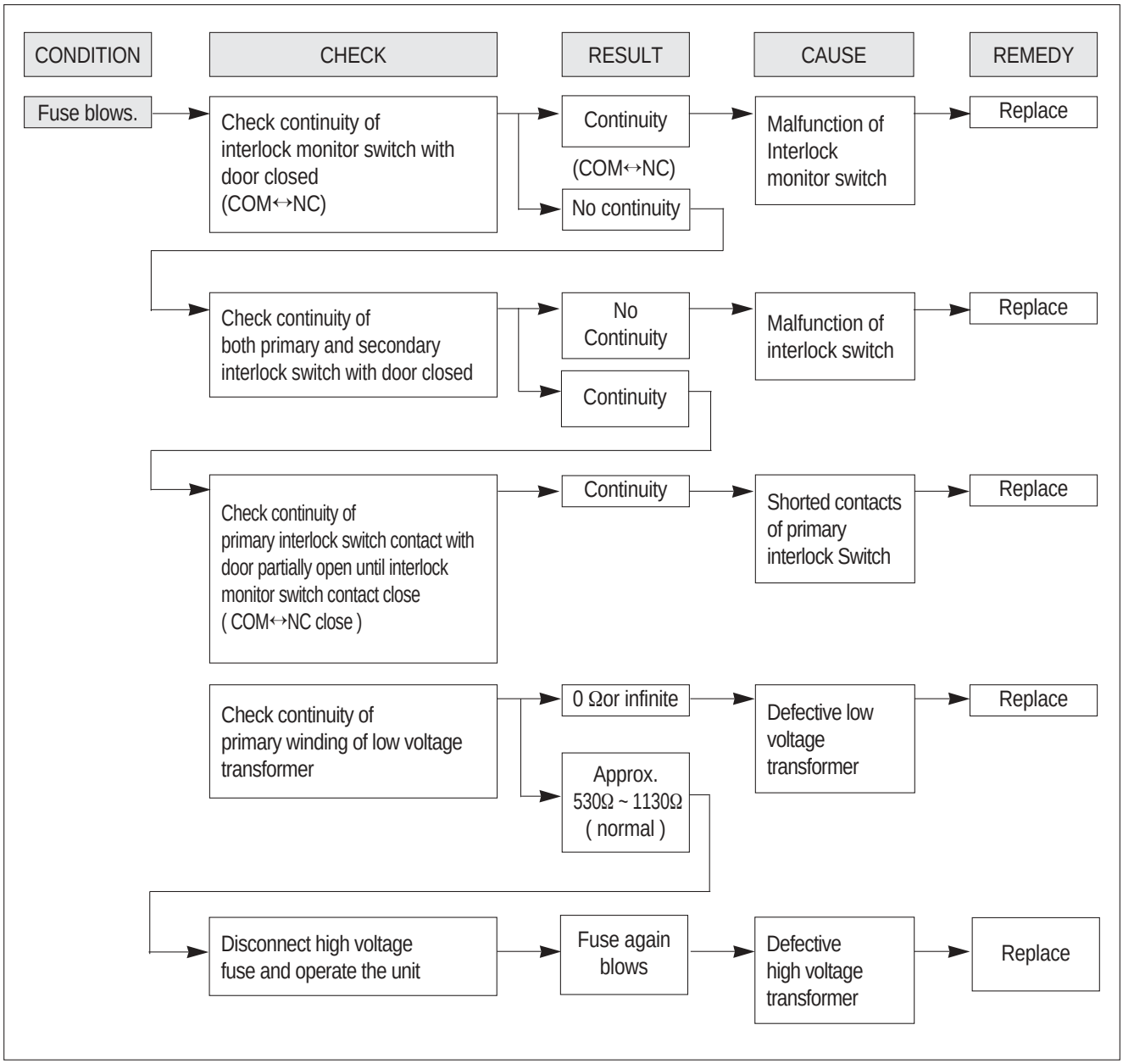
8. TROUBLESHOOTING GUIDE

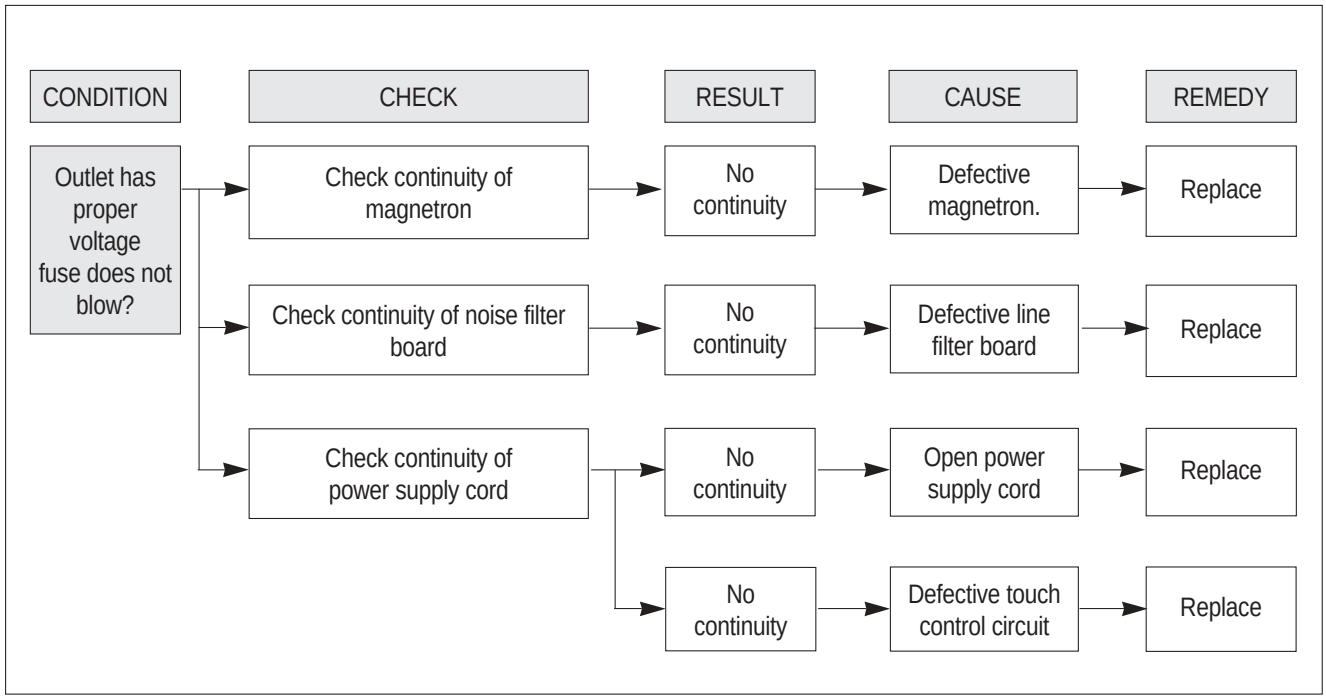
Following the procedure below to check if the oven is defective or not.

1) Check grounding before trouble checking.
2) Be careful of the high voltage circuit.
3) Discharge the high voltage capacitor.
4) When checking the continuity of the switches, fuse or high voltage transformer, disconnect one load wire from these parts and check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.

> **NOTE :** When electric parts are checked, be sure the power cord is not inserted the wall outlet.
> Check wire harness, wiring and connection of the terminals and power cord before check the parts listed below.

(TROUBLE 1) Oven does not operate at all : any inputs can not be accepted.

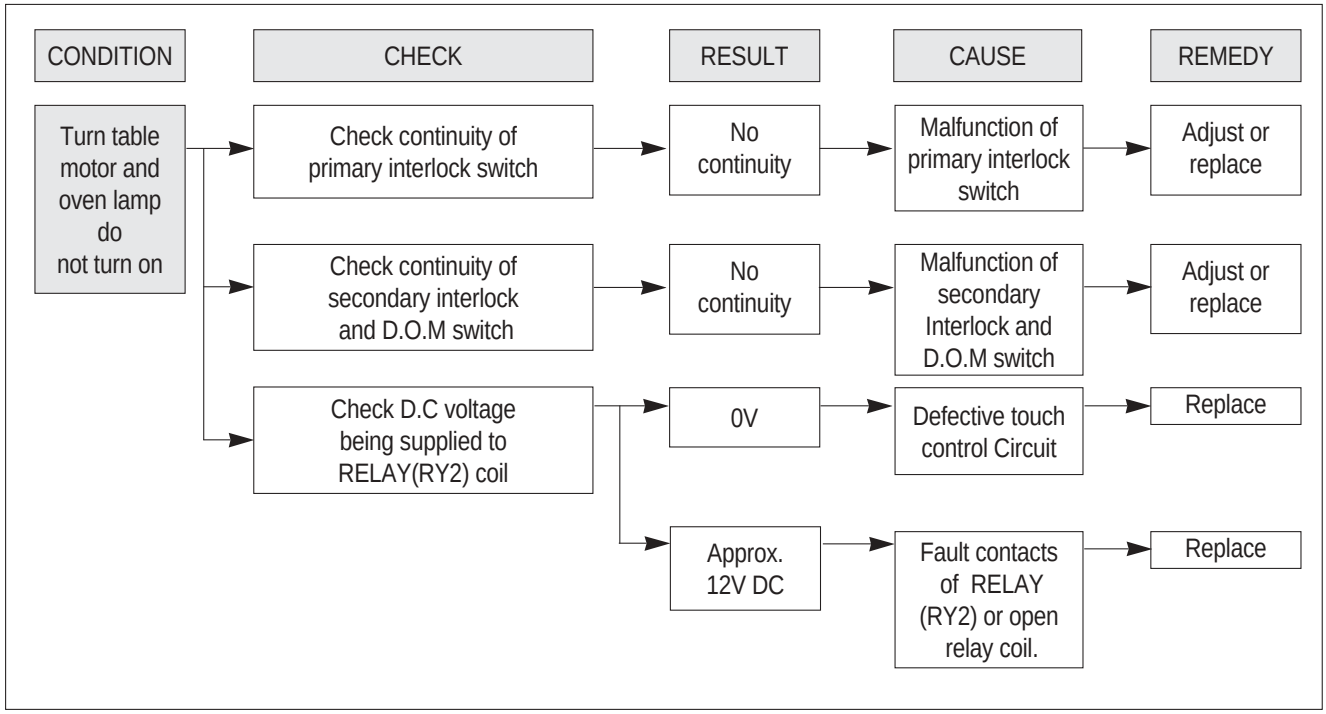




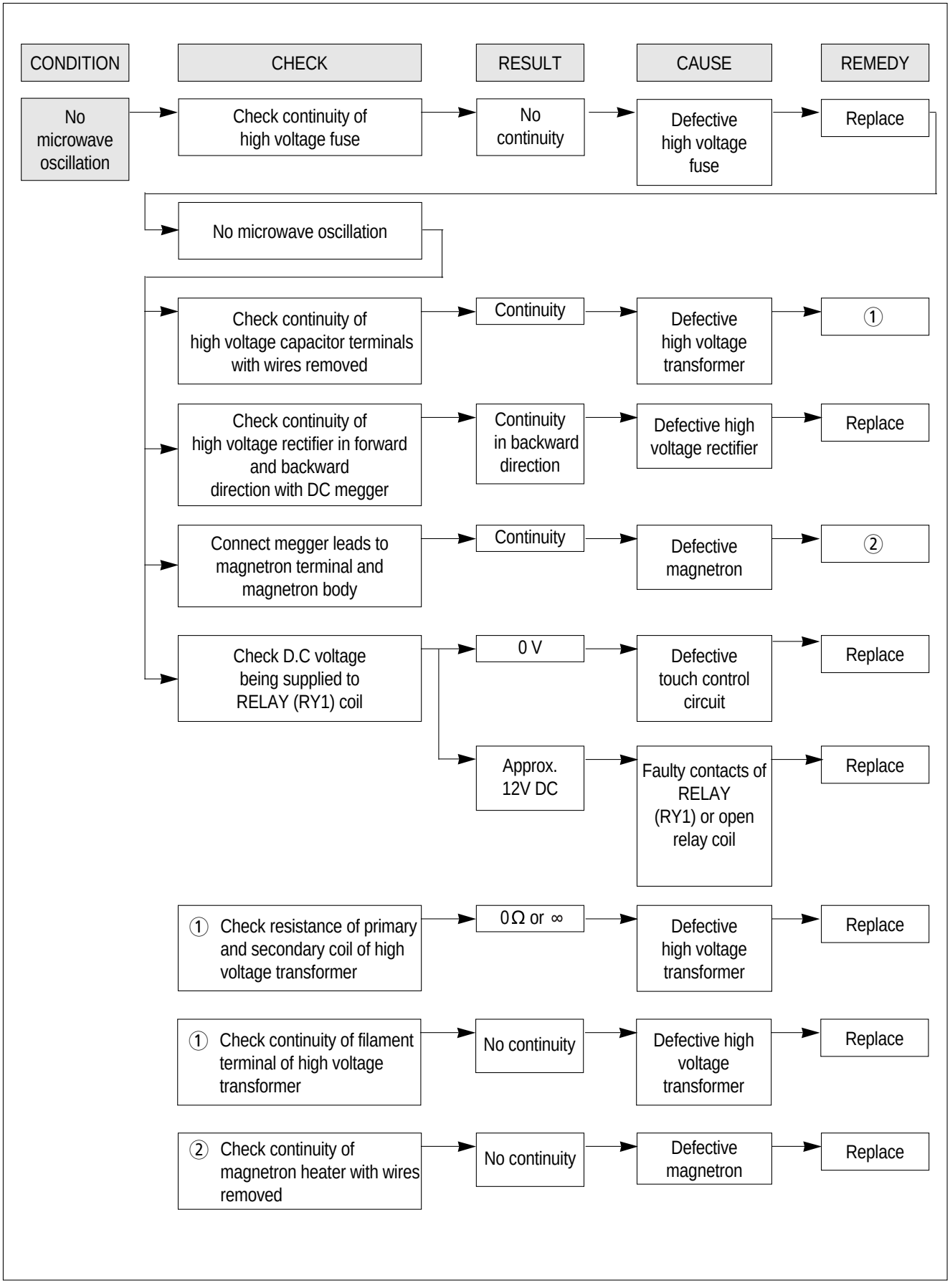
NOTE : All these switches must be replaced at the same time, please refer to (7.Interlock mechanism and adjust) for adjustment instructions

(TROUBLE 2)

Display shows all figures selected, but oven does not start cooking, even though desired program and time are set and start button is tapped.

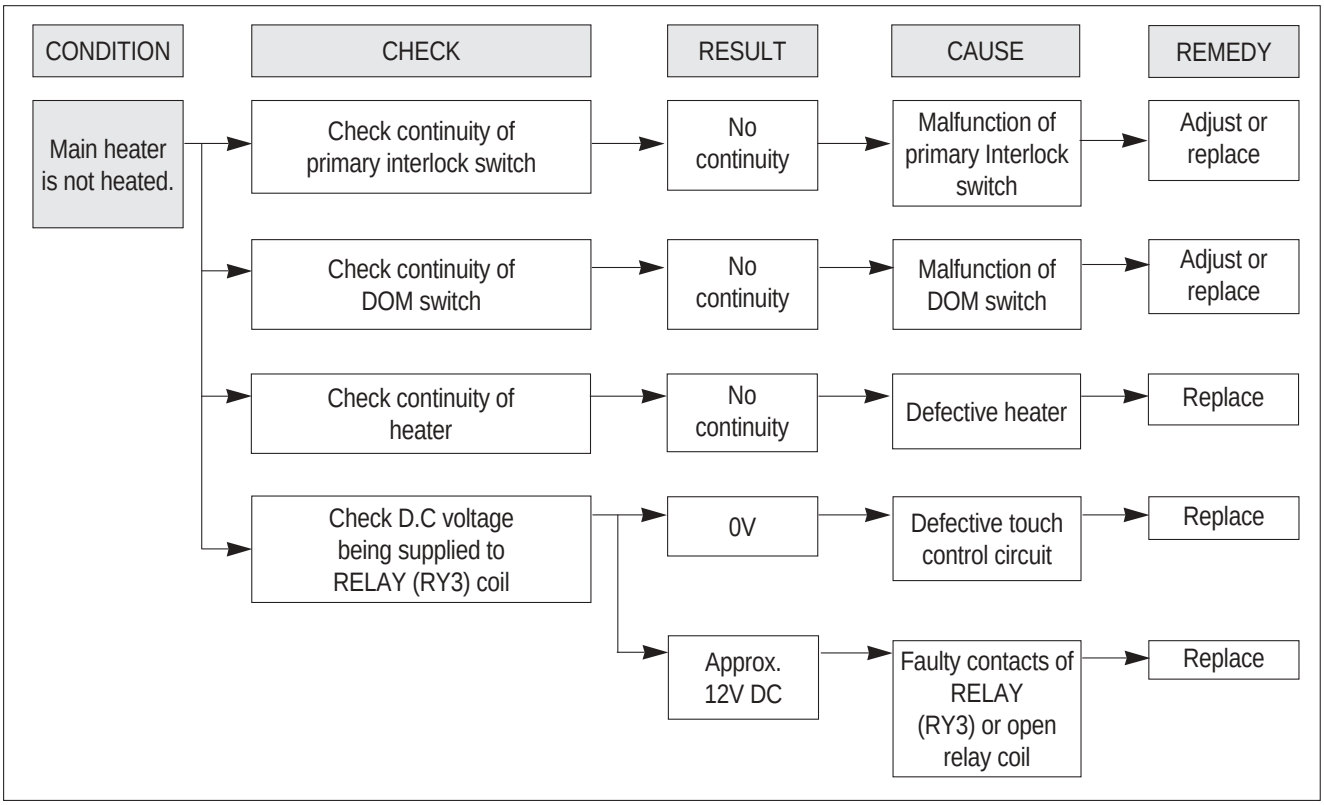


TROUBLE 3) No microwave oscillation even though fan motor rotates.



(TROUBLE 4)

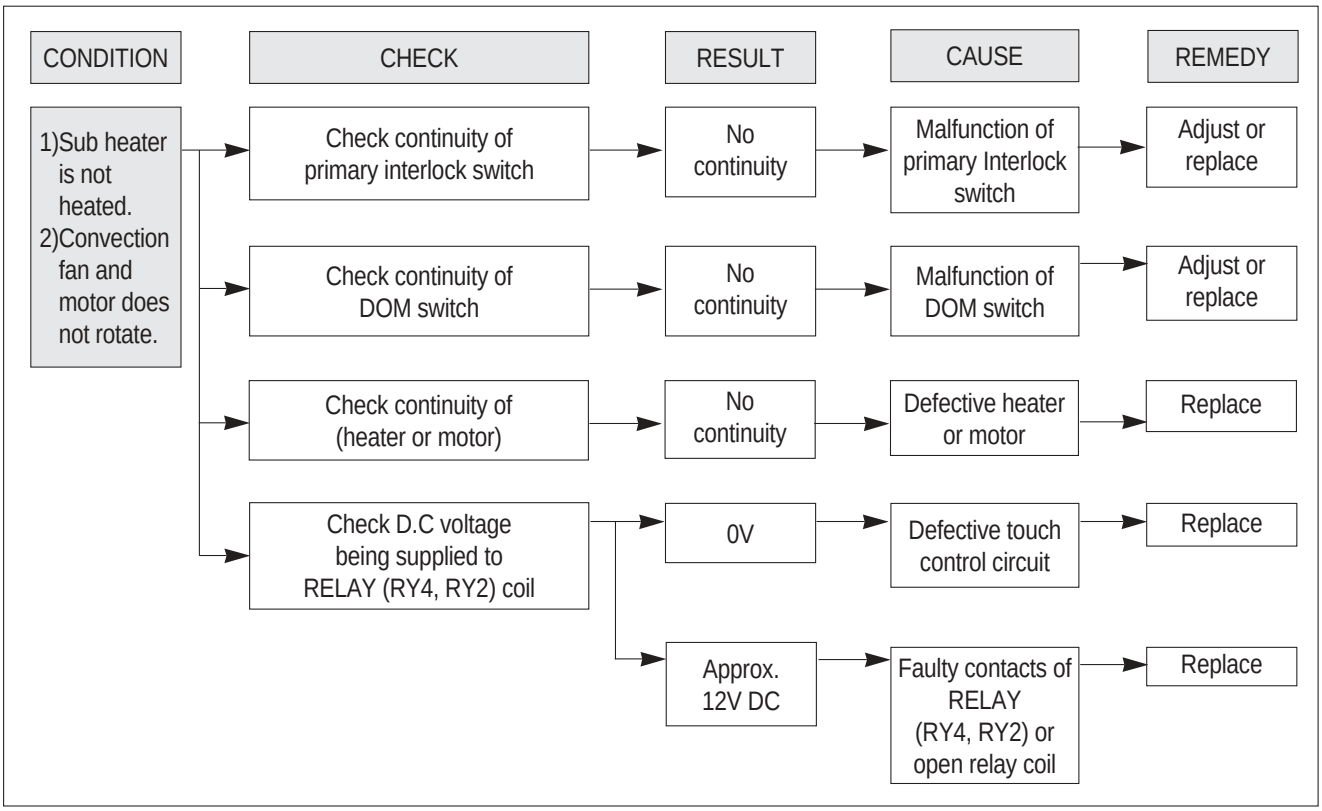
Grill heater (upper heater) is not heated; food will not become hot.



(TROUBLE 5)

1) Convection heater is not heated; food will not become hot.

2) Convection fan motor does no rotate.



(TROUBLE 6)

The following visual conditions indicate a probable defective touch control Circuit or button P.C.B. assembly

1. Incomplete segments.
   1) segment missing
   2) partial segments missing
   3) digit flickering other than normal fluorescent slight flickering
2. A distinct change in the brightness of one or more numbers exists in the display.
3. One or more digits in the display are not on when they should be.
4. Display does not count down or up with time cooking or clock operation.
5. Oven is programmable and cooks normally but no display shows.
6. Display obviously jumps in time while counting down.
7. Display counts down noticeably too fast while cooking.
8. Display does not show the time of day when clear button is touched.
9. Oven lamp and turn table motor do not stop although cooking is finished.
   Check if the RELAY(RY2) contacts close and if they are close, replace touch control circuit.

CONDITION	CHECK	RESULT	CAUSE	REMEDY
Display does not show programming at all, even if keyboard is touched.	Check each button for continuity of the button	Normal	Malfunction of touch control circuit of control box sub-assembly	Replace control box sub-assembly

(TROUBLE 7)

When “ERROR 2 ERROR 3” come on display.

CONDITION	CHECK	RESULT	CAUSE	REMEDY
“ERROR 2 & ERROR 3” come on display	Check continuity of thermistor (resistance of thermistor)	0Ω or infinite	Replace	Replace
		Approx 200k~300kΩ (room temperature)		
	Check continuity of heater (main, sub)	No continuity	Defective heater	Replace
		continuity	Defective touch control circuit	Replace

9. MEASUREMENT AND TEST

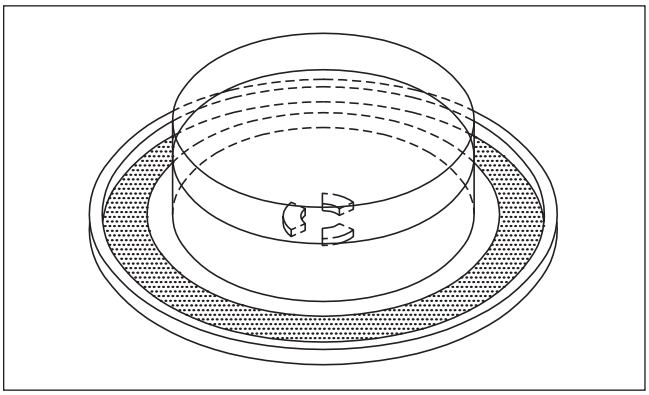
1. MEASUREMENT OF THE MICROWAVE POWER OUTPUT

Microwave output power can be checked by indirectly measuring the temperature rise of a certain amount of water exposed to the microwave as directed below.

PROCEDURE

1. A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3mm, an external diameter of approximately 190mm and a height of approximately 90mm.
   The mass of the container is determined.
2. At the start of the test, the oven and the empty container are at ambient temperature. Water having an initial temperature of 10˚C ± 1˚C is used for the test. The water temperature is measured immediately before it is poured into the container.
3. A quantity of 1000g ± 5g of water is added to the container and its actual mass obtained.
   The container is then immediately placed in the centre of the oven shelf, which is in its lowest normal position.
   The oven is operated and the time for the water temperature to attain 20˚C ± 2˚C is measured. The oven is then switched off and the final water temperature is measured within 60s.

   NOTE 1 - The water stirred is before its temperature is measured.
   NOTE 2 - Stirring and measuring devices are to have a low heat capacity.



4. The microwave power output is calculated from the formula

$$P = 4{,}187 \cdot m_w(T_2 - T_1) + 0.55 \cdot mc(T_2 - T_0)/t$$

where
P is the microwave power output, in watts ;
m_w is the mass of the water, in grams ;
m_c is the mass of the container, in grams ;
T_0 is ambient temperature, in degrees Celsius ;
T_1 is the initial temperature of the water, in degree Celsius ;
T_2 is the final temperature of the water, in degrees Celsius ;
t is the heating time, in seconds, excluding the magnetron filament heating-up time.

✻ The microwave power output is stated in watts, rounded off to the nearest 50W

CAUTION
1. Water load should be measured exactly to 1 liter.
2. Input power voltage should be exactly specified voltage (Refer to 2. SPECIFICATIONS).
3. Ambient temperature should be 20 ± 2°C (68 ± 3.6°F)

✻ Heating time for power output: ($T_2 = T_0$)

A (second)	70	64	60	56	52	49	47	44	42	40	38
B (W)	600	650	700	750	800	850	900	950	1000	1050	1100

2. MICROWAVE RADIATION TEST

WARNING

1. Make sure to check the microwave leakage before and after repair of adjustment.
2. Always start measuring of an unknown field to assure safety for operating personnel from microwave energy.
3. Do not place your hands into any suspected microwave radiation field unless the safe density level is known.
4. Care should be taken not to place the eyes in direct line with the source of microwave energy.
5. Slowly approach the unit under test until the radiometer reads an appreciable microwave leakage from the unit under the test.

PROCEDURE

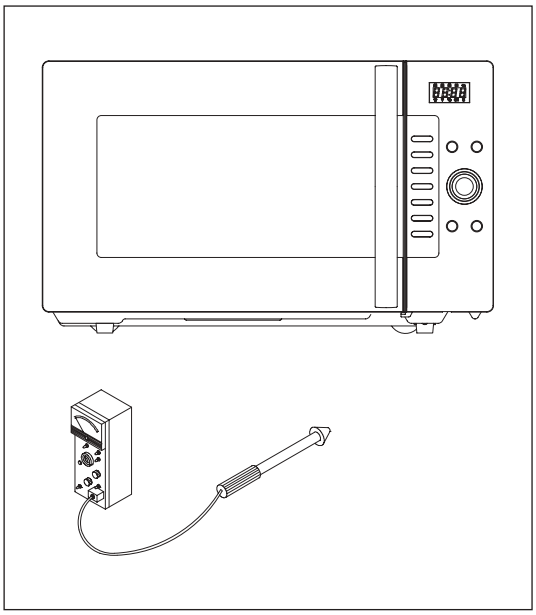
1. Prepare Microwave Energy Survey Meter, 600cc glass beaker, and glass thermometer 100°C (212°F).

2. Pour 275cc ± 15cc of tap water initially at 20 ± 5°C (68 ± 9°F) in the 600 cc glass beaker with an inside diameter of approx. 95 mm(3.5 in.).

3. Place it at the center of the tray and set it in a cavity.

4. Close the door and operate the oven.

5. Measure the leakage by using Microwave Energy Survey Meter with dual ranges, set to 2450MHz.



   1) Measured radiation leakage must not exceed the value prescribed below. Leakage for a fully assembled oven with door normally closed must be less than 4mW/Cm^2.
   2) When measuring the leakage, always use the 5 cm (2 in.) space cone with probe. Hold the probe perpendicular to the cabinet and door. Place the space cone of the probe on the door, cabinet, door seem, door viewing screen, the exhaust air vents and the suction air vents.
   3) Measuring should be in a counter-clockwise direction at a rate of 1 in./sec. If the leakage of the cabinet door seem is unknown, move the probe more slowly.
   4) When measuring near a corner of the door, keep the probe perpendicular to the areas making sure the probe end at the base of the cone does not get closer than 2 in. from any metal. If it does not, erroneous reading may result.

3. COMPONENT TEST PROCEDURE

- High voltage is present at the high voltage terminal of the high voltage transformer during any cooking cycle.
- It is neither necessary nor advisable to attempt measurement of the high voltage.
- Before touching any oven components or wiring, always unplug the oven from its power source and discharge the capacitor.

1. High voltage transformer

1) Remove connections from the transformer terminals and check continuity.
2) Normal readings should be as follows :
   Secondary winding ... Approx. 168 Ω±10%
   Filament winding ... Approx. 0 Ω
   Primary winding ... Approx. 1.97 Ω

2. High voltage capacitor

1) Check continuity of capacitor with meter on the highest OHM scale.
2) A normal capacitor will show continuity for a short time, and then indicate 10MW once the capacitor charged.
3) A shorted capacitor will show continuous continuity.
4) An open capacitor will show constant 10MΩ
5) Resistance between each terminal and chassis should be infinite.

3. High voltage diode

1) Isolate the diode from the circuit by disconnecting the leads.
2) With the ohmmeter set on the highest resistance scale measure the resistance across the diode terminals. Reverse the meter leads and again observe the resistance reading. Meter with 6V, 9V or higher voltage batteries should be used to check the front-back resistance of the diode, otherwise an infinite resistance may be read in both directions. A normal diode's resistance will be infinite in one direction and several hundred kΩin the other direction.

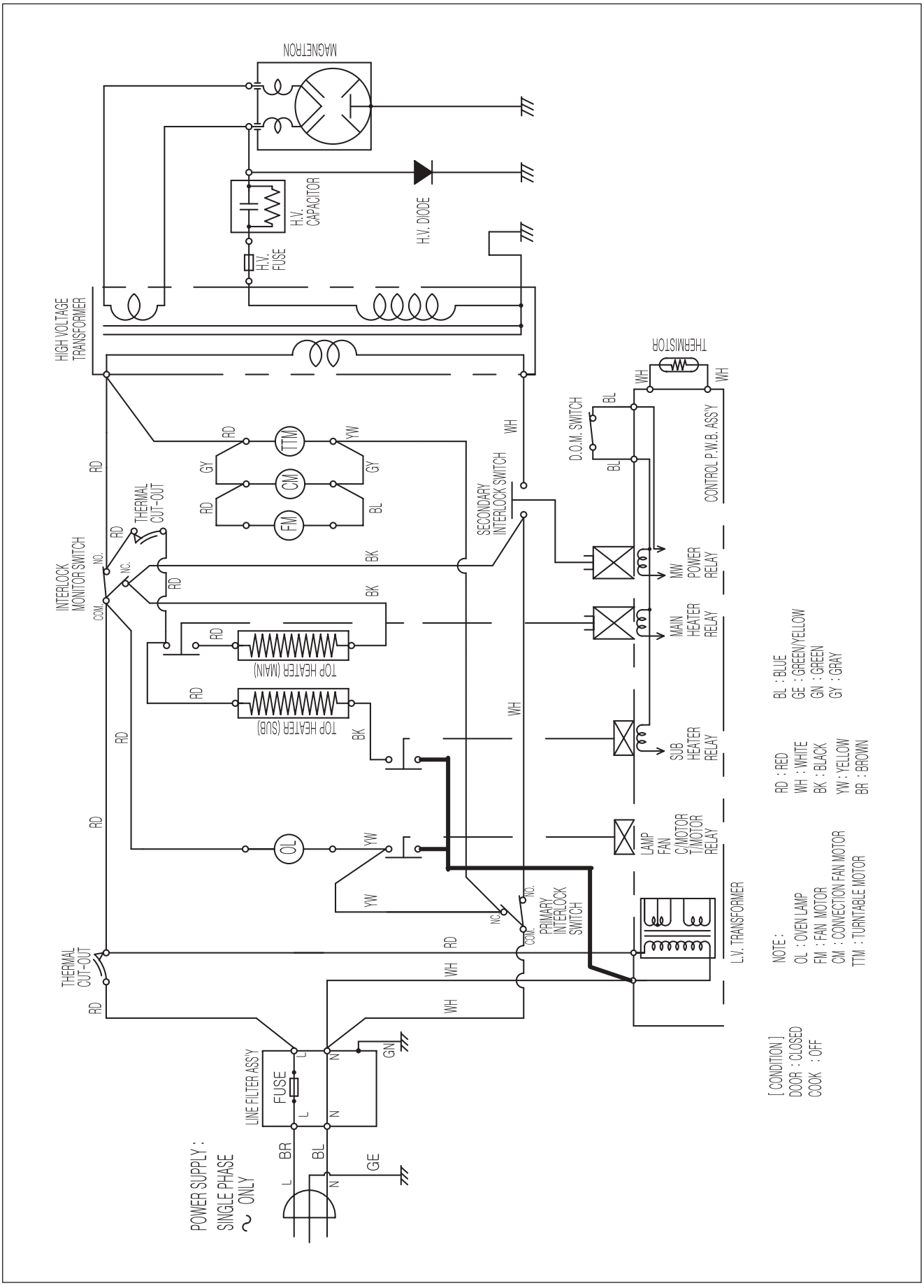
4. Magnetron

For complete magnetron diagnosis, refer to "Measurement of the Microwave Output Power." Continuity checks can only indicate and open filament or a shorted magnetron. To diagnose for an open filament or a shorted magnetron,
1) Isolate magnetron from the circuit by disconnecting the leads.
2) A continuity check across magnetron filament terminals should indicate 0.1 Ωor less.
3) A continuity check between each filament terminal and magnetron case should read open.

5. Fuse

If the fuse in the primary and monitor switch circuit is blown when the door is opened, check the primary and monitor switch before replacing the blown fuse. In case the fuse is blown by an improper switch operation, replace the defective switch and fuse at the same time. Replace just the fuse if the switches operate normally.

10. WIRING DIAGRAM



1. DOOR ASSEMBLY

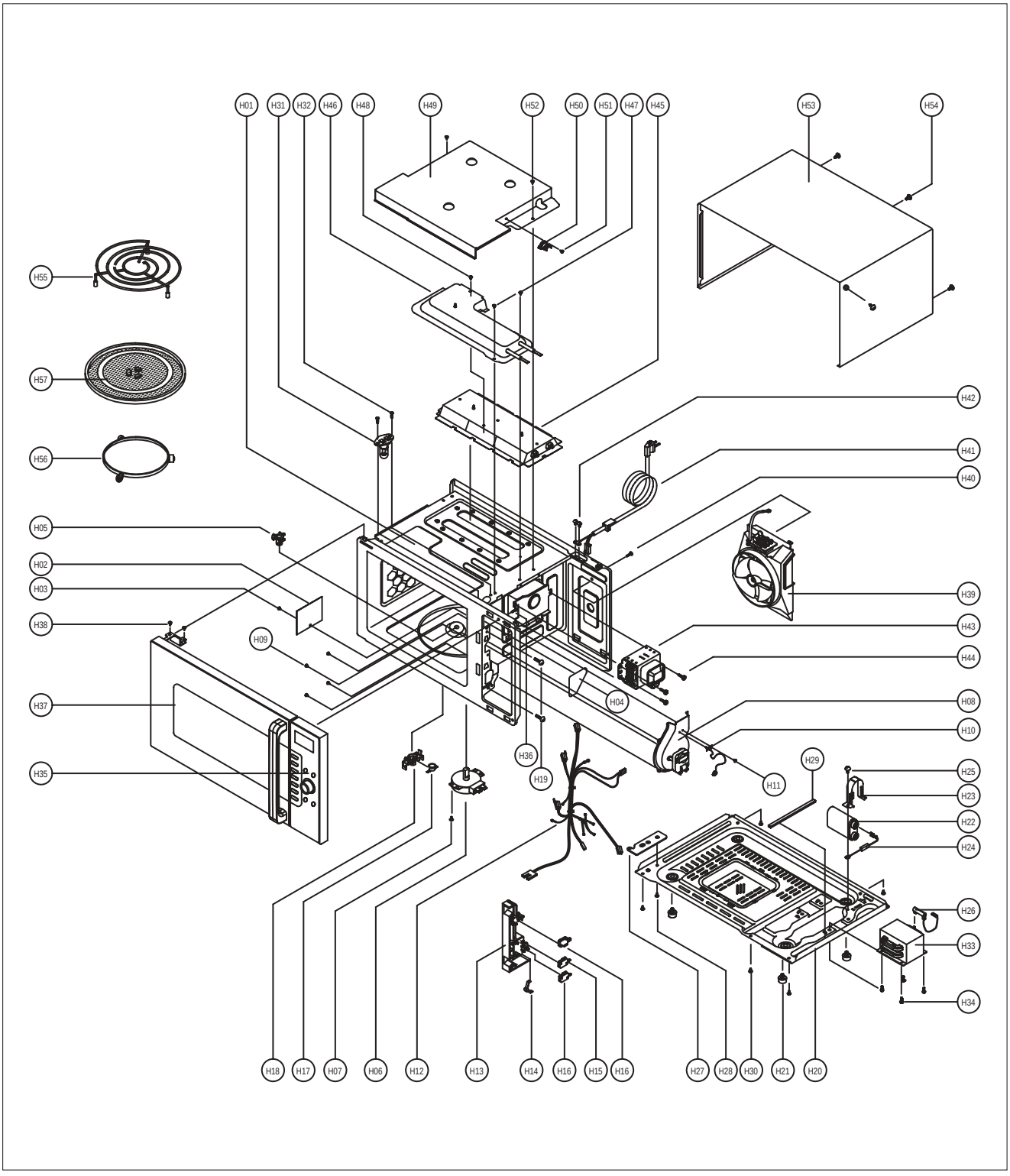
Refer to 6. Disassembly and assembly.

2. CONTROL PANEL ASSEMBLY

Refer to 6. Disassembly and assembly.

3. TOTAL ASSEMBLY

2) KOC-9Q4T



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REF. NO	PART CODE	PART NAME	DESCRIPTION	Q'TY
H01	3516119900	CAVITY AS	KOC-9Q0T7S	1
H02	3511403800	COVER WAVE GUIDE	MICA T0.35	1
H03	7113400810	SCREW TAPPING	T1 BIN 4X8 STS430 MFZN	1
H04	3511414800	COVER LAMP	PE 0.1T	1
H05	3517413410	COUPLER	TEFLON	1
H06	3966031800	MOTOR SYNCRO	49TYD -5C	1
H07	7122400611	SCREW TAPPING	T2S TRS 4X6 MFZN	1
H08	3511801400	FAN CONVECTION AS	KOC-9Q0T7S	1
H09	7113400810	SCREW TAPPING	T1 BIN 4X8 STS430 MFZN	4
H10	3514801400	SENSOR TEMPERATURE	PTM-K312-D7	1
H11	7S432X4081	SPECIAL SCREW	TT3 TRS 4X8 SE MFZN	1
H12	3512783520	HARNESS MAIN	KOC-9Q0T7S	1
H13	3513820520	LOCK	PP	1
H14	3513702630	LEVER LOCK	POM	1
H15	4415A17352	SW MICRO	VP-533A-OF SPNO #187 200G	1
H16	4415A66910	SW MICRO	VP-531A-OF/SZM-V16-FA-61	2
H17	3518907020	THERMOSTAT	OFF:120 ON:60 H #187 NB	1
H18	3513003410	HOLDER THERMOSTAT	PP(BK)	1
H19	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	2
H20	3510317520	BASE	SBHG T0.5	1
H21	3512101400	FOOT	DASF-310	2
H22	3518303100	CAPACITOR HV	2100VAC 0.98UF #187 +3 -0	1
H23	3513003200	HOLDER HV CAPACITOR	SECC T0.5	1
H24	3518400400	DIODE HV	HVR-1X-3AB 12KV #187	1
H25	7S432X4081	SPECIAL SCREW	TT3 TRS 4X8 SE MFZN	1
H26	3518702100	FUSE HV	5KV 0.7A T.H.V.060T	1
H27	3515201101	STOPPER HINGE *U	SCP-1 T2.5	1
H28	7272400811	SCREW TAPTITE	TT3 TRS 4X8 MFZN	1
H29	3517304300	FOAM	CR 15TX150X15	1
H30	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	6
H31	3513601600	LAMP	BL 240V 25W T25 C7A H187	1
H32	4414H50000	FIXTURE AS	KOG-36150S	2
H33	3518124400	TRANS HV	R1S59E ES00	1
H34	3516003700	SPECIAL SCREW	TT3 HEX 4X8 FLG MFZN	4
H35	3516738700	CONTROL-PANEL AS	KOC-9Q4T7S	1
H36	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	1
H37	3511728330	DOOR AS	KOC-9Q4T7S	1
H38	7272400811	SCREW TAPTITE	TT3 TRS 4X8 MFZN	2

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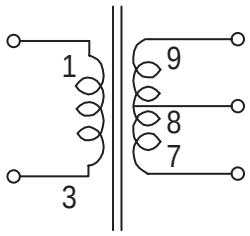
REF. NO	PART CODE	PART NAME	DESCRIPTION	Q'TY
H39	3512529400	GUIDE WIND AS	KOC-9Q0T7S	1
H40	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	1
H41	35113A5QJ5	CORD POWER AS	3X1.5 80X80 120-RTML 1.4M	1
H42	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	2
H43	3518003700	MAGNETRON	2M218JFL 6CF	1
H44	3516003700	SPECIAL SCREW	TT3 HEX 4X8 FLG MFZN	3
H45	3512807530	HEATER *T AS	KOC-9Q0T7S	1
H46	3512525510	GUIDE AIR AS	KOC-9Q0T7S	1
H47	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	2
H48	7113400810	SCREW TAPPING	T1 BIN 4X8 STS430 MFZN	1
H49	3513304400	INSULATOR HEATER *T	SBHG T0.4	1
H50	3518903800	THERMOSTAT	OFF:160 ON:115 V #187	1
H51	7121400611	SCREW TAPPING	T2S PAN 4X6 MFZN	1
H52	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	2
H53	3510810800	CABINET AS	KOC-9Q0T7S	1
H54	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	5
H55	3517212000	TRAY RACK AS	KOC-9Q0T7S 35MM	1
H56	3512512930	GUIDE ROLLER AS	KOR-121Q3A XAREC	1
H57	441CD35011	TRAY	GLASS DIA:325 1320G	1

12. PRINTED CIRCUIT BOARD

CIRCUIT CHECK PROCEDURE

1. Low voltage transformer check

The low voltage transformer is located on the P.C.B.
Measuring condition: Input voltage: 230V / Frequency: 50Hz

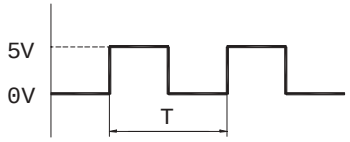
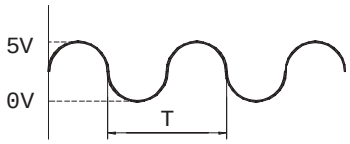


Terminal	Voltage(load)	Voltage(no load)
7-8-9	DC 13.5 V	AC 37 V

NOTE
1. Secondary side voltage of the low voltage transformer changes in proportion to fluctuation of power source voltage.
2. The allowable tolerance of the secondary voltage is within ± 5% of nominal voltage.

2. Voltage Check

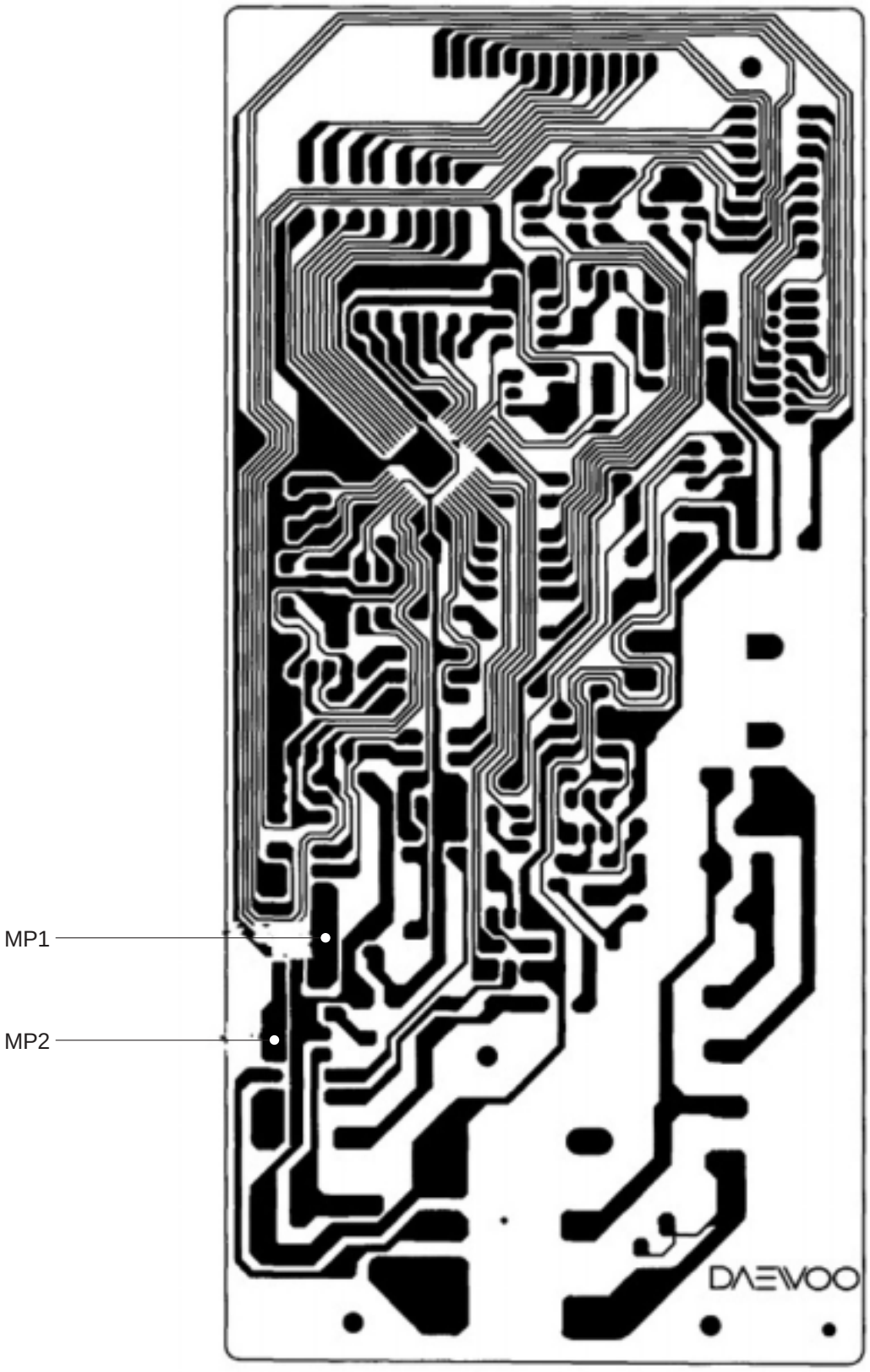
- Key check point

NO	CHECK POINT	REMARK
1	IC1 PIN 5, 34, 35	5VDC±5%
2	IC1 PIN 10	 T : 20 ms(50Hz)
3	IC1 PIN 2 OR 3	 T : 250 ns(4MHz)

- Check method

NO	MEASURE POINT	WAVE FORM	REMEDY	REMARK
1	MP1	DC 5V±5%	Replace VL1,EC1,C4,C5	NO LOAD
2	MP2	DC 12V±20%	Replace D14,D15,EC2,R21,D12	NO LOAD

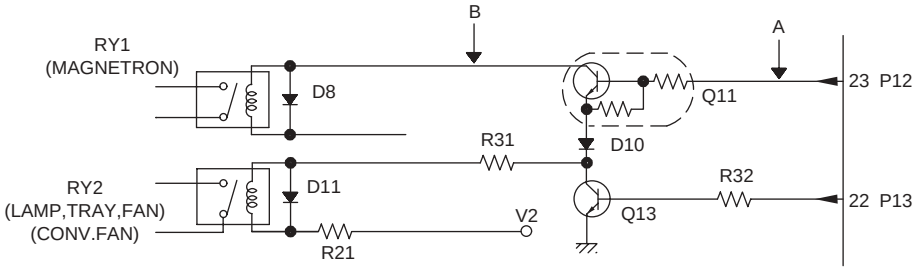
NOTE: Each measure point must be measured with GND points.



MEASUREPOINT

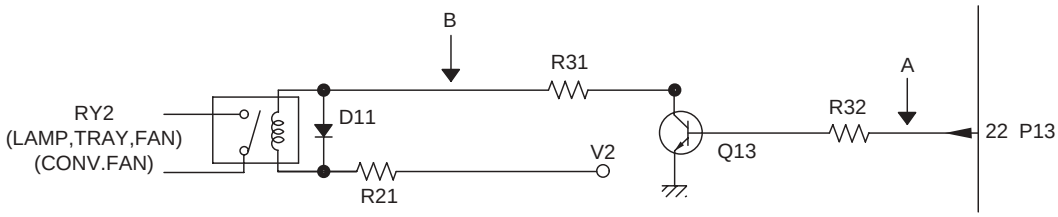
3. Case of no microwave oscillation

1) When touching M/W button, oven lamp turns on and Fan motor and turntable rotate, and cook indicator in display comes on.
*Cause: **RELAY 1** does not operate.



STATE	POINT A	POINT B
RELAY 1 ON	+5V DC	GND
RELAY 1 OFF	GND	12V DC

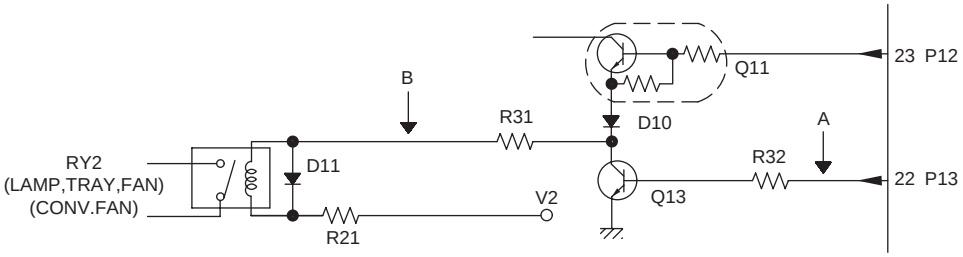
2) When touching M/W button, oven lamp does not turn on and turntable motor does not rotate but cook indicator in display comes on.
*Cause: **RELAY 2** does not operate.



STATE	POINT A	POINT B
RELAY 2 ON	+5V DC	GND
RELAY 2 OFF	GND	12V DC

- Check method

3) When touching M/W button, oven lamp turns on and fan motor does not rotate but cook indicator in display comes on.
*Cause: **RELAY 2** does not operate.



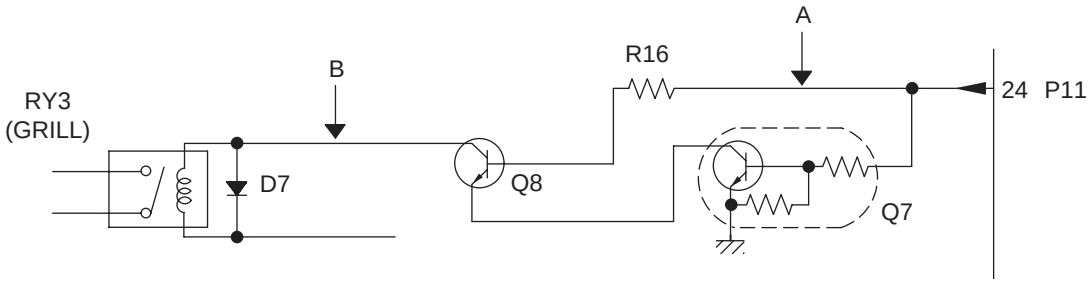
STATE	POINT A	POINT B
RELAY 2 ON	+5V DC	GND
RELAY 2 OFF	GND	12V DC

- Check method

4. Case of no heating of top heater main.

When touching GRILL or COMBI or CONVECTION button, oven lamp turns on and fan motor and turntable rotate, and cook indicator in display comes on.

*Cause: **RELAY 3** does not operate.

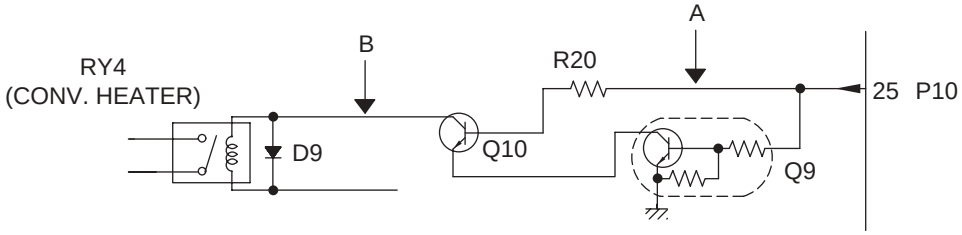


STATE	POINT A	POINT B
RELAY 3 ON	+5V DC	GND
RELAY 3 OFF	GND	12V DC

5. Case of no heating of top heater sub.

When touching GRILL or COMBI or CONVECTION button, oven lamp turns on and Fan motor and turntable rotate and cook indicator in display comes on.

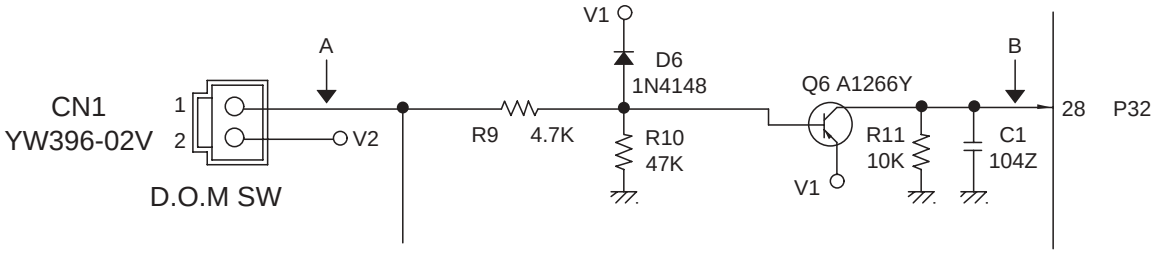
*Cause: **RELAY 4** does not operate.



STATE	POINT A	POINT B
RELAY 4 ON	+5V DC	GND
RELAY 4 OFF	GND	12V DC

6. Case of no stopping of the count down timer

When the door is opened during operation, the count down timer does not stop.

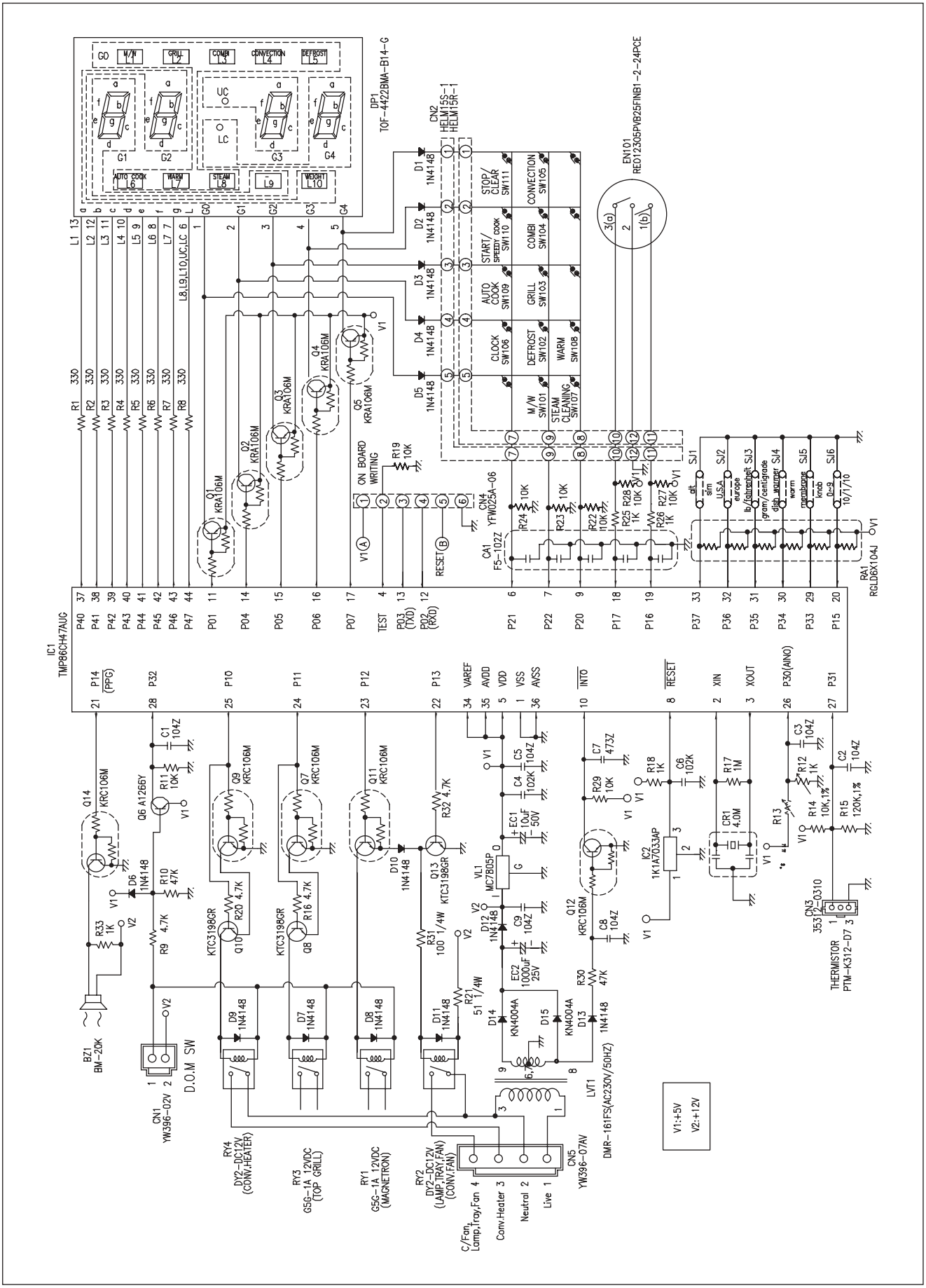


- Check method

POINT / STATE	A	B
DOOR OPEN	OPEN	+5V DC
DOOR CLOSED	CLOSE	GND

CHECK NO	METHOD	REMEDY
1	Check the stage(ON,OFF) of the door open monitor switch by resistance measurement.	Replace door open monitor switch.

13. P.C.B. CIRCUIT DIAGRAM



PCB ASS'Y PART LIST

NO	LOCATION	PART CODE	NAME	SPECIFICATION	Q'TY
1	BZ1	3515600100	BUZZER	BM-20K	1
2	CA1	CN5XB-102M	C ARRAY	6P(5) 1000PF M 50V	1
3	C7	CCZF1H473Z	C CERA	50V HIKF 0.047uF Z	1
4	C4,C6	CCZB1H102K	C CERA	102K 50V AXIAL	2
5	C1~3,C5,C8,C9	CCZF1H104Z	C CERA	50V HIKF 0.1uF Z	6
6	EC1	CEXE1H100A	C ELECTRO	50V RSS 10MF	1
7	EC2	CEXF1E102V	C ELECTRO	25V RSS 1000uF	1
8	CN1	3519150520	CONN WAFER	YW396-02V	1
9	CN2	4CW215SBD0	CONN FILM	HLEM15S-1	1
10	CN3	30166M5030	CONN WAFER	MOLEX 35312-0310	1
11	CN5	3519150540	CONN WAFER	YW396-07AV	1
12	D1~D13	DZN4148---	DIODE SWITCHING	1N4148 AUTO 52mm	13
13	D14,D15	DZN4004A--	DIODE RECTIFIER	1N4004A AUTO 52mm	2
14	IC1	13GL86FH47	IC MICOM	TMP86FH47AUG(TMP86CH47AUG)	1
15	IC2	1K1A7033AP	IC RESET	KIA7033AP	1
16	VL1	1CPMC7805C	IC REGULATOR	MC7805C	1
17	DP1	DDDUA9Q0T-	LED DISPLAY	TOF-4422BMA-B14-G	1
18	M298	3514332420	PCB MAIN	BOARD(92.8x197)	1
19	RA1	RA-87X104J	R ARRAY	7P(6) 1/8 100K J	1
20	R1~R8	RD-AZ331J-	R CARBON FILM	1/6 330 OHM 5%	8
21	R12,18,25,26,33	RD-AZ102J-	R CARBON FILM	1/6 1K OHM 5%	5
22	R9,16,20,32	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM 5%	4
23	R11,19,R22~24,R27~29	RD-AZ103J-	R CARBON FILM	1/6 10K OHM 5%	8
24	R10,30	RD-AZ473J-	R CARBON FILM	1/6 47K OHM 5%	2
25	R17	RD-AZ105J-	R CARBON FILM	1/6 1M OHM 5%	1
26	R21	RD-4Z510J-	R CARBON FILM	1/4 51 OHM 5% SMALL	1
27	R31	RD-4Z101J-	R CARBON FILM	1/4 100 OHM 5% SMALL	1
28	R14	RN-AZ1002F	R METAL FILM	1/6 10K 1%	1
29	R15	RN-AZ1203F	R METAL FILM	1/6 120K 1%	1
30	CR1	5P4R00MTS-	RESONATOR CERA	CRT4.00MS	1
31	RY1,3	5SC0101121	SW RELAY	G5G-1A 1C 1P DC12V	2
32	RY2,4	5SC0101487	SW RELAY	DY2-DC12	2
33	Q1~Q5	TZRA106M--	TR	KRA-106M (AUTO)	5
34	Q7,9,11,12,14	TZRC106M--	TR	KRC-106M (AUTO)	5
35	Q6	TZTA1266Y-	TR	KTA-1266Y (AUTO) (1015Y)	1
36	Q8.10,13	TZTC3198GR	TR	KTC-3198GR (AUTO) (1015Y)	3
37	LVT1	5EPV035308	TRANS POWER	DMR-161FS	1
38	J4,5,8~10,15,21~24, J29~31,33,34	85801052GY	WIRE COPPER	1/0.52 TIN COATING 7.5mm	15
39	J1~3,6,7,11~14,16~20, J28,J32,35~37	85801052GY	WIRE COPPER	1/0.52 TIN COATING 10mm	19
40	M299	3514332520	PCB SUB	BOARD(89x197)	1
41	CN101	4CW215RBD0	CONN WAFER	HLEM15R-1	1
42	EN101	5S10302010	SW ROTARY	RE012305PVB25FINB1-2-24PCE	1
43	SW101~SW111	5S50101Z93	SW TACT	KPT-1115AM	11
44	J101,J102	85801052GY	WIRE COPPER	1/0.52 TIN COATING 10mm	2
45	WF1	WSJ-159007	WIRE FLAT	1.25X15X90XC	1

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