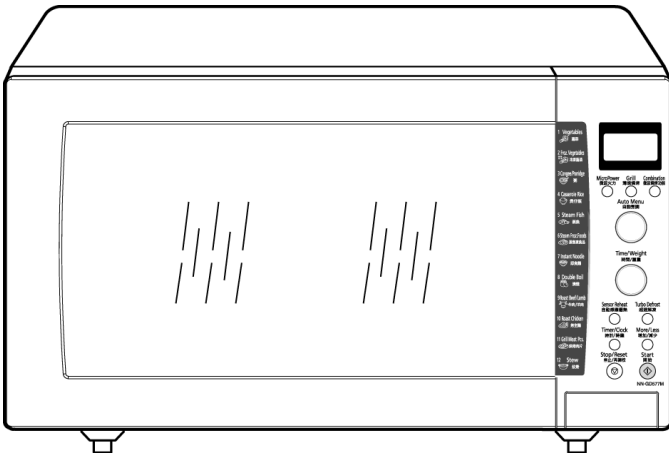


Service Manual

Microwave Oven

Simplified



NN-GD577M
NN-SD577M
NN-GT547W

HPE(Hong Kong)

YPQ(Singapore)

MPQ(Malaysia)

TPE(Thailand, Indonesia)

YTE(Others)

Please file and use this manual together with the service manual for Model NN-S553/K593/K573/K543 (ORDER NO. SIMMC0306022C3).

Specification

Model	NN-GD577M	NN-SD577M	NN-GT547W	
Power Source:	240V AC Single Phase, 50HzFor MPQ, YPQ Models 220V AC Single Phase, 50HzFor HPE, YTE, TPE Models			
Power Requirement:	Microwave	1000W	1000W	900W
	Heater	1350W	—	1150W
Output:	Microwave	1100W	1100W	1000W
	Heater	1300W	—	1100W
Microwave Frequency:	2450MHz			
Timer:	90min.00sec		99min.90sec	
Outside Dimensions:	510mm(W) x 380mm(D) x 304mm(H)			
Oven Cavity Dimensions:	359mm(W) x 352mm(D) x 217mm(H)			
Weight:	11.5kg	12.5kg		
PbF	This product with PbF			
Specifications subject to change without notice.				


Panasonic®

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 **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

WARNING

1. This product should be serviced only by trained, qualified personnel.
2. Check for radiation leakage before and after every servicing according to the "procedure for measuring radiation leakage."
3. If the unit cannot be repaired on site, advise the customer not to use until unit is repaired.
4. There are special components used in the microwave oven which are important for safety. These parts are marked with a  on the replacement parts list. It is essential that these critical parts be replaced only with the manufacture's specified parts to prevent microwave leakage, shock, fire, or other hazards. Do not modify the original design.

This service manual covers products for following markets.

When troubleshooting or replacing parts, please refer to the country/area identifications shown below for your applicable product specification.

- HPE For Hongkong
- YPQ For Singapore
- MPQ For Malaysia
- TPE For Thailand, Indonesia
- YTE For Others

CAUTION

About lead free solder (PbF)

Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

- Caution:**
- Pb free solder has a higher melting point than standard solder; Typically the melting point is 30 - 40°C higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 370 ± 10°C.
 - Pb free solder will tend to splash when heated too high (about 600°C).

DANGER OF HIGH VOLTAGE AND HIGH TEMPERATURE (HOT/LIVE) OF THE INVERTER POWER SUPPLY (U)

INVERTER WARNING

This Inverter board looks like a regular PCB. However, this PCB drives the magnetron tube with extremely high voltage and high current.

NEW H.V.

IT HAS: 1. Very high voltage and high current circuits.

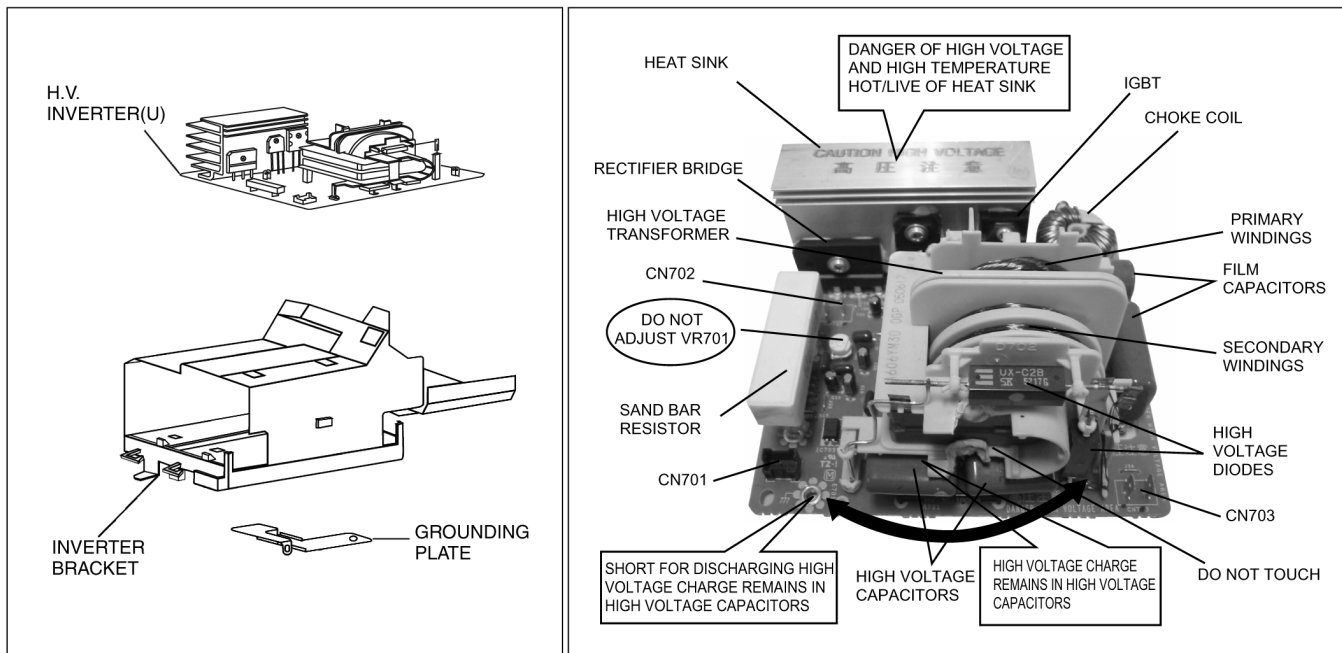
It functions the same as the high voltage transformer and high voltage capacitor in ordinary microwave ovens.

2. Aluminum heat sink that is energized with very high voltage and high heat energy.
3. Very high voltage which may remain in circuitry even when oven is off. High voltage charge may remain in the capacitors on the board.

DO NOT:

- * 1. Do not touch circuitry because it has very hot (high voltage) circuitry. Even when replacing board, extreme care should be taken to avoid possible electric shock hazards. High voltage charge may remain in circuits.
- * 2. Do not touch aluminum heat sink because it is energized with very high voltage and is also very hot in high heat energy.
- * 3. Do not try to adjust or tamper with preset control on the Inverter board because it is very dangerous to adjust without proper test equipment.
- * 4. Do not test oven while Inverter grounding plate or screws are loose. It is very dangerous to operate H.V. Inverter Circuit (U) with loose mounting screws or if improperly grounded.

INVERTER POWER SUPPLY

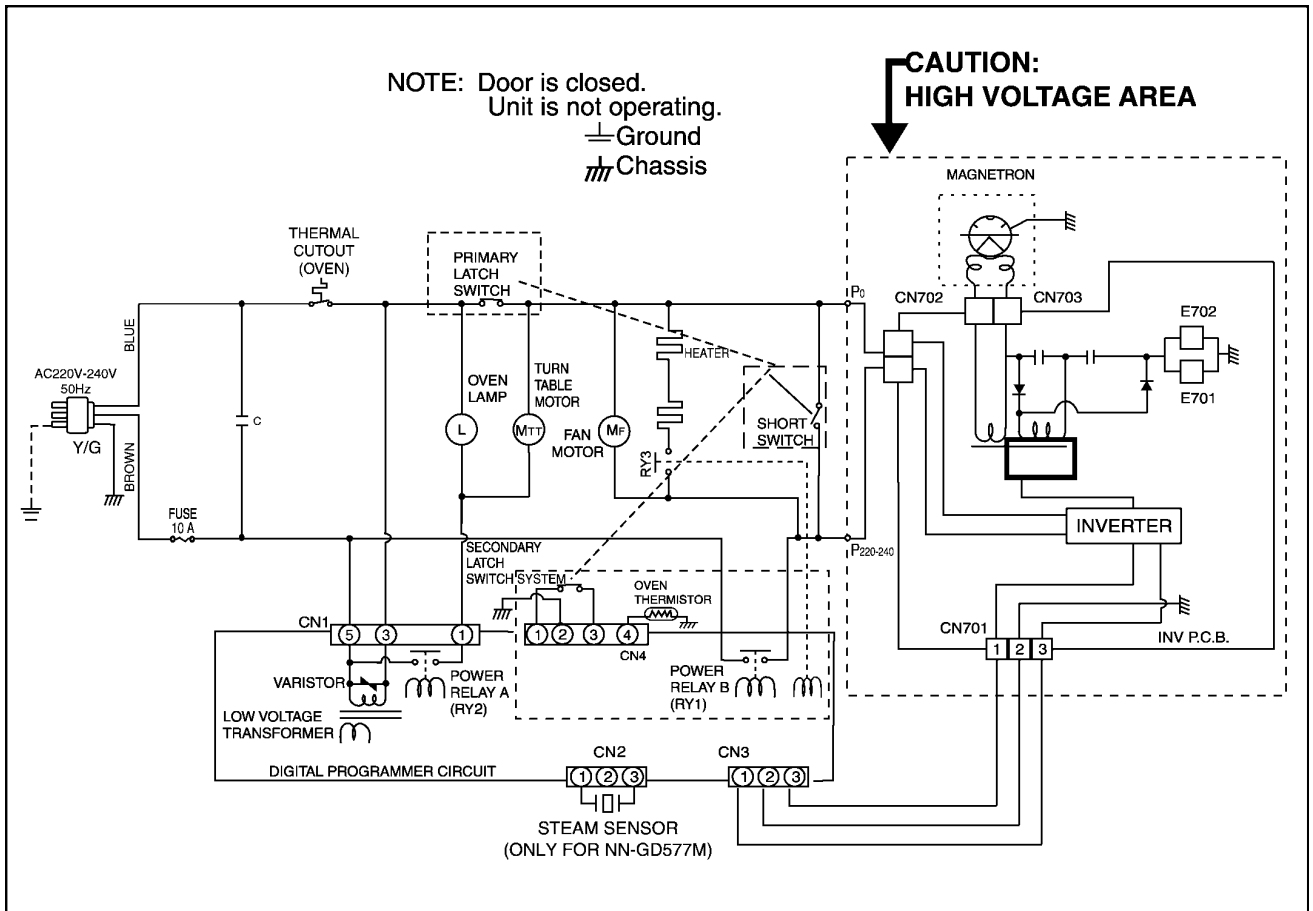


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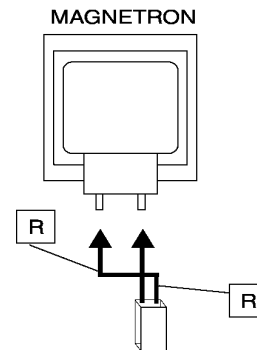
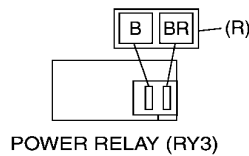
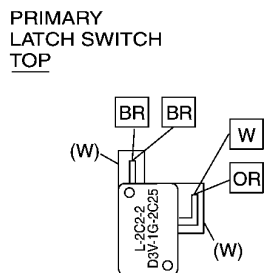
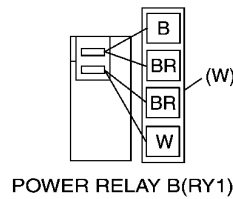
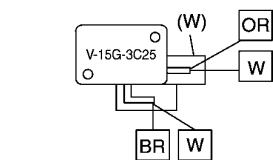
1 SCHEMATIC DIAGRAM

1.1. NN-GD577M, GT547W



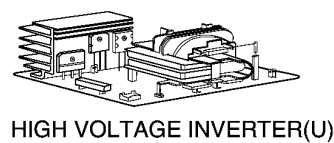
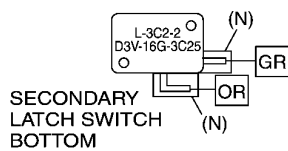
WIRING DIAGRAM

NOTE: * When replacing, check the lead wire color as shown.
*Colors shown by () indicate colors of lead wire connector housing.

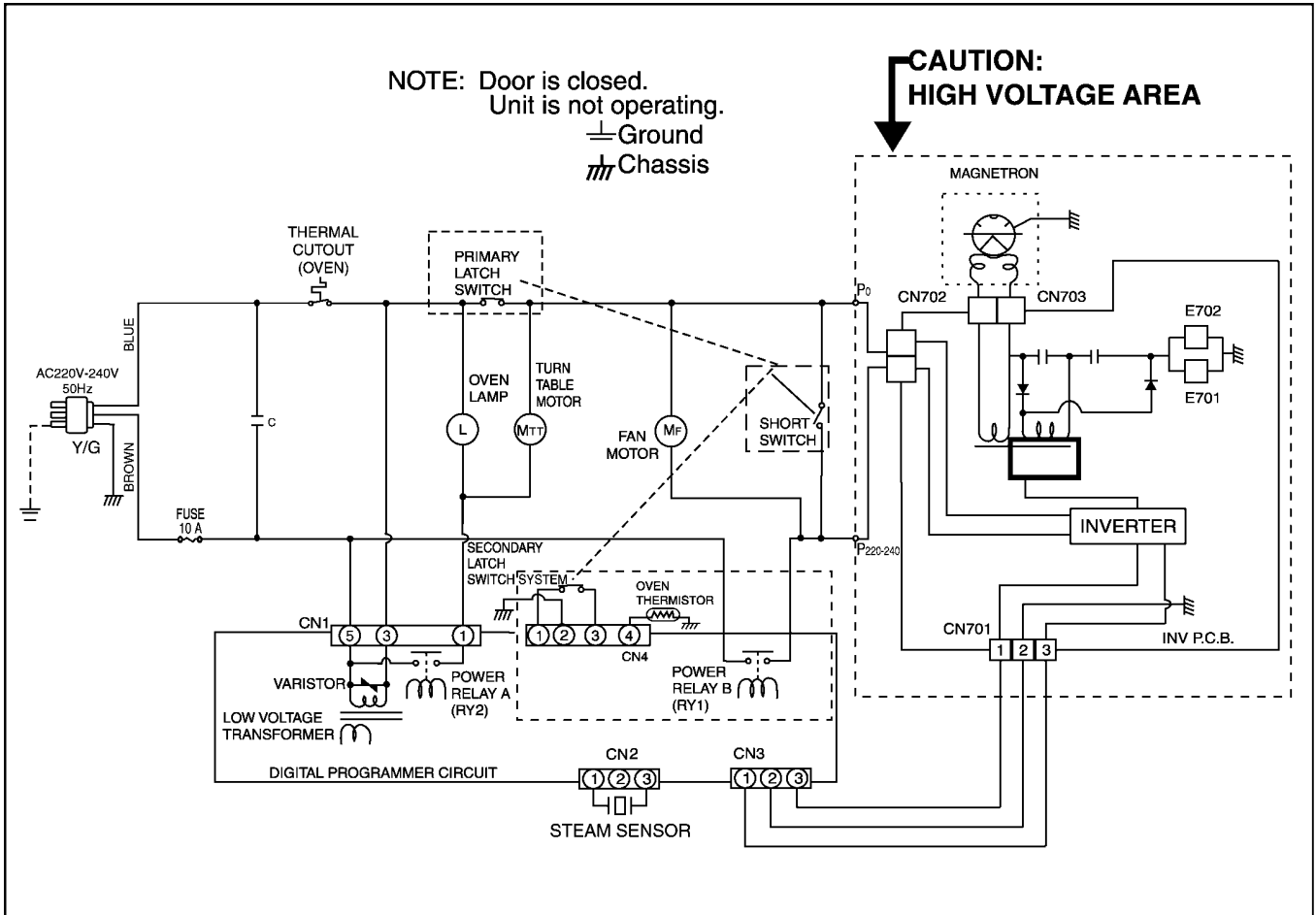


SYMBOL	COLOR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK
N	NATURAL
G	GREEN

(S-8B7)
(S-8B8)

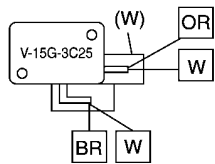


1.2. NN-SD577M

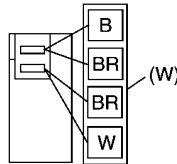


WIRING DIAGRAM

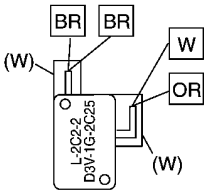
**NOTE: * When replacing, check the lead wire color as shown.
*Colors shown by () indicate colors of lead wire connector housing.**



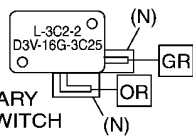
PRIMARY LATCH SWITCH TOP



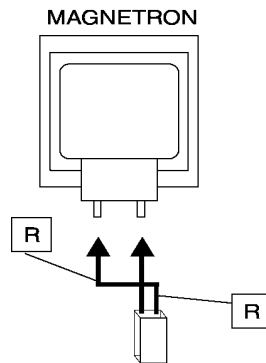
POWER RELAY B(RY1)



SHORT SWITCH MIDDLE



SECONDARY LATCH SWITCH BOTTOM



HIGH VOLTAGE INVERTER(U)

SYMBOL	COLOR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK
N	NATURAL
G	GREEN

(S-8B9)

2 CAUTIONS TO BE OBSERVED WHEN TROUBLESHOOTING

Unlike many other appliances, the microwave oven is a high voltage, high current device. It is free from danger in ordinary use, though extreme care should be taken during repair.

CAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.

2.1. Check the grounding

Do not operate on a two wire extension cord. The microwave oven is designed to be grounded when used. It is imperative, therefore, to ensure the appliance is properly grounded before beginning repair work.

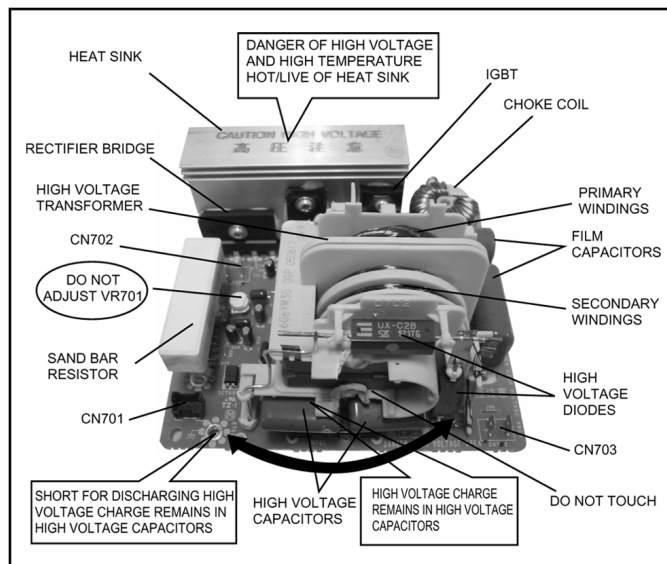
2.2. Inverter warnings

DANGER, HIGH VOLTAGE AND HIGH TEMPERATURE (HOT/LINE) OF THE INVERTER POWER SUPPLY (U)

The high voltage inverter power supply handles very high voltage and current for the magnetron tube. Though it is free from danger in ordinary use, extreme care should be taken during repair.

The aluminum heat sink is also energized with high voltage (HOT), do not touch when the AC input terminals are energized. The power device Collector is directly connected to the aluminum heat sink.

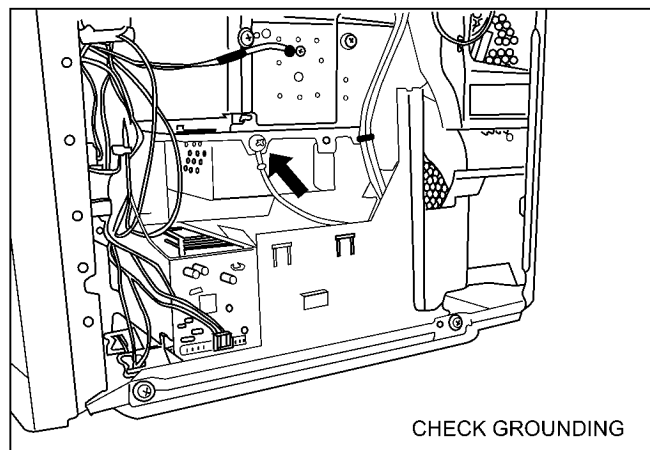
The aluminum heat sink may be HOT due to heat energy, therefore, extreme care should be taken during servicing.



H.V. Inverter warning

WARNING FOR INVERTER POWER SUPPLY (U) GROUNDING

Check the high voltage inverter power supply circuit grounding. The high voltage inverter power supply circuit board must have a proper chassis ground. The inverter grounding bracket must be connected to the chassis. If the inverter board is not grounded it will expose the user to very high voltages and cause extreme DANGER! Be sure that the inverter circuit is properly grounded via the inverter earth bracket.

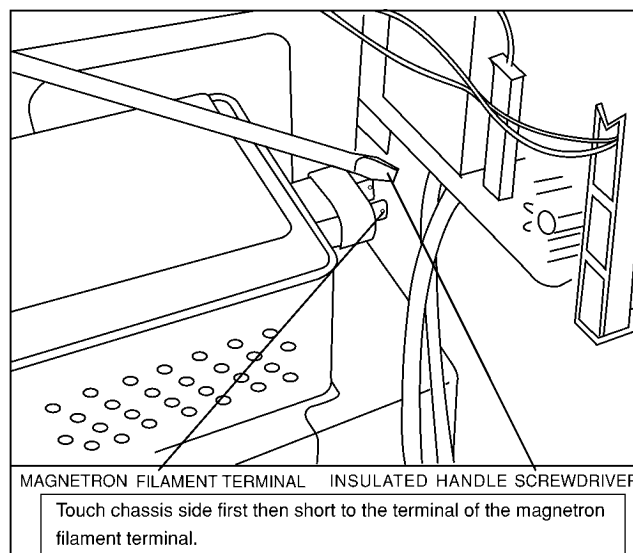


Grounding of the inverter circuit board

WARNING! DISCHARGE THE HIGH VOLTAGE CAPACITORS

For about 30 seconds after the oven is turned off, an electric charge remains in the high voltage capacitors in the inverter power supply circuit board.

When replacing or checking parts, remove the power plug from the outlet and short the inverter output terminal of the magnetron filament terminals to the chassis ground with an insulated handle screwdriver to discharge. Please be sure to touch the chassis ground side first and then short to the output terminals.



Discharging the high voltage capacitors

WARNING

There is high voltage present with high current capabilities in the circuits of the primary and secondary windings, choke coil and heat sink of the inverter. It is extremely dangerous to work on or near these circuits with the oven energized. DO NOT measure the voltage in the high voltage circuit including the filament voltage of the magnetron.

WARNING

Never touch any circuit wiring with your hand or with an insulated tool during operation.

2.3. Part replacement.

When any part or component is to be replaced, always ensure that the power cord is removed from the wall outlet.

2.4. When the 10A fuse is blown due to the operation of the short switch:

WARNING

When the 10A 250V fuse is blown due to the operation of the interlock monitor switch, replace all of the components (primary latch switch, secondary latch switch, short switch and power relay B (RY1)).

1. This is mandatory. Refer to “adjustments and measurements” for the location of these switches.
2. When replacing the fuse, confirm that it has the appropriate rating for these models.
3. When replacing faulty switches, be sure the mounting tabs are not bent, broken or deficient in their ability to hold the switches.

2.5. Avoid inserting nails, wire etc. through any holes in the unit during operation.

Never insert a wire, nail or any other metal object through the lamp holes on the cavity or any holes or gaps, because such objects may work as an antenna and cause microwave leakage.

2.6. Confirm after repair

1. After repair or replacement of parts, make sure that the screws of the oven, etc. are neither loose nor missing. Microwaves might leak if screws are not properly tightened.
2. Make sure that all electrical connections are tight before inserting the plug into the wall outlet.
3. Check for microwave energy leakage. (Refer to procedure for measuring microwave energy leakage).

CAUTION MICROWAVE RADIATION

USE CAUTION NOT TO BECOME EXPOSED TO RADIATION FROM THE MICROWAVE MAGNETRON OR OTHER PARTS CONDUCTING MICROWAVE ENERGY

IMPORTANT NOTICE

The following components have potentials above 2000V while the appliance is operated.

- Magnetron
- High voltage transformer (Located on inverter (U))
- High voltage diodes (Located on inverter (U))
- High voltage capacitors (Located on inverter (U))

Pay special attention to these areas.

When the appliance is operated with the door hinges or magnetron installed incorrectly, the microwave leakage can exceed more than 5mW/cm². After repair or exchange, it is very important to check if the magnetron and the door hinges are correctly installed.

2.7. Sharp edges

CAUTION

Please use caution when unpacking, installing or moving the unit, as some exposed edges may be sharp to the touch and cause injury if not handled with care.

3 MEASUREMENTS AND ADJUSTMENTS

3.1. Adjustment of primary latch switch, secondary latch switch and short switch.

1. Mount the Primary latch switch, the secondary latch switch and the short switch to the door hook assembly as shown in ILL.

NOTE:

No specific individual adjustments during installation of the Primary latch switch, Secondary latch switch or Short switch to the door hook are required.

2. When mounting the door hook assembly to the oven assembly, adjust the door hook assembly by moving it in the direction of the arrows in the illustration, so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the door hook assembly to the oven assembly.

3. Reconnect the short switch and check the continuity of the monitor circuit and all latch switches again by following the component test procedures.

3.2. Measurement of microwave output

The output power of the magnetron can be determined by performing IEC standard test procedures. However, due to the complexity of IEC test procedures, it is recommended to test the magnetron using the simple method outlined below.

Necessary Equipment:

*1 liter beaker *Glass thermometer

*Wrist watch or stopwatch

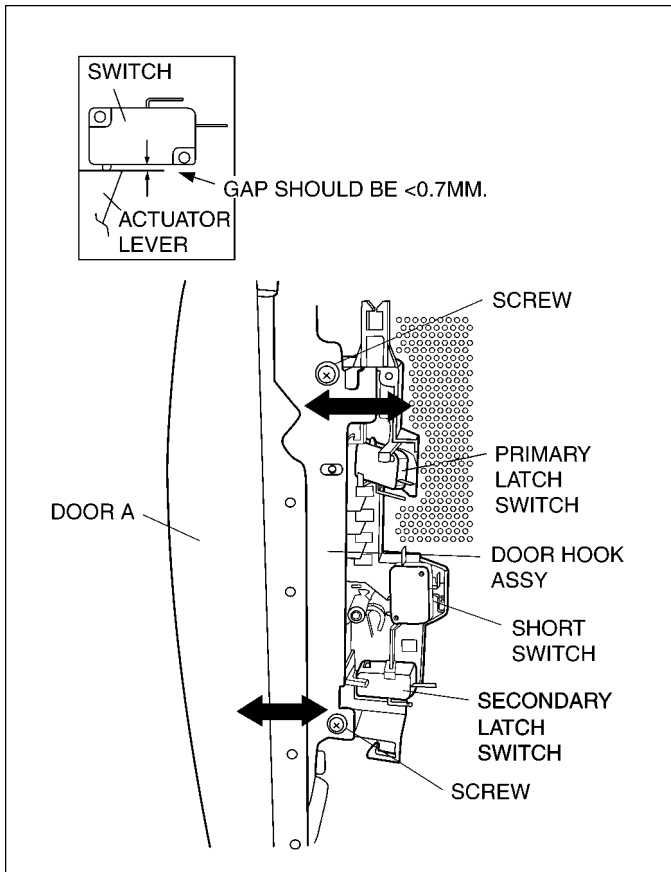
NOTE:

Check the line voltage under load. Low voltage will lower the magnetron output. Take the temperature readings and heating time as accurately as possible.

1. Fill the beaker with exactly one liter of tap water. Stir the water using the thermometer and record the water's temperature. (recorded as T1).
2. Place the beaker on the center of glass tray. Set the oven for High power and heat it for exactly one minute.
3. Stir the water again and read the temperature of the water. (recorded as T2).
4. The normal temperature rise at High power level for each model, is as shown in table.

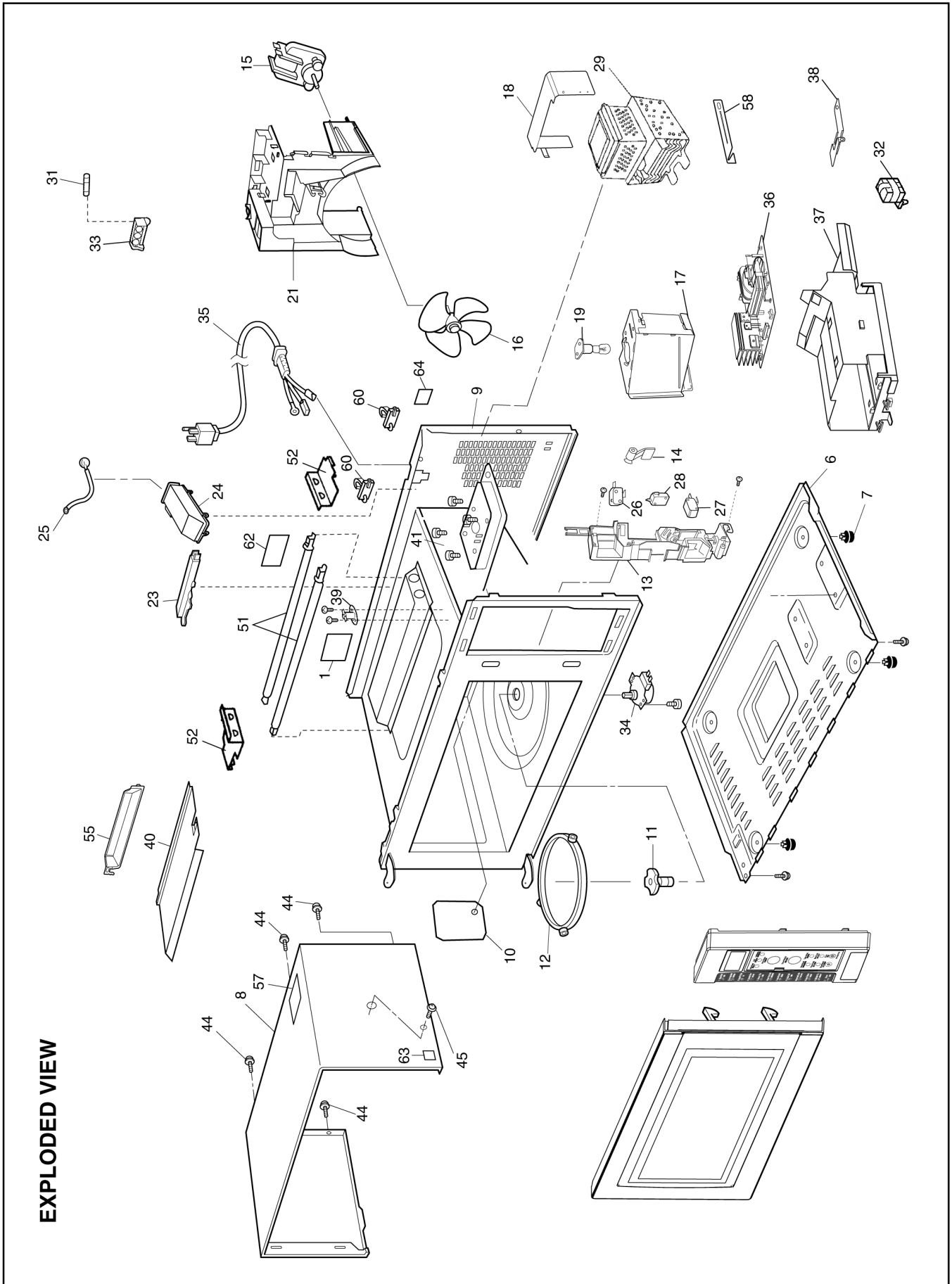
TABLE (1L-1min.test)

RATED OUTPUT	TEMPERATURE RISE
1000W	Min. 8.6°C
1100W	Min. 9.4°C



4 EXPLODED VIEW AND PARTS LIST

4.1. EXPLODED VIEW



EXPLODED VIEW

4.2. PARTS LIST

NOTE:

1. When ordering replacement part(s), please use part number(s) shown in this part list.

Do not use description of the part.

2. Important safety notice:

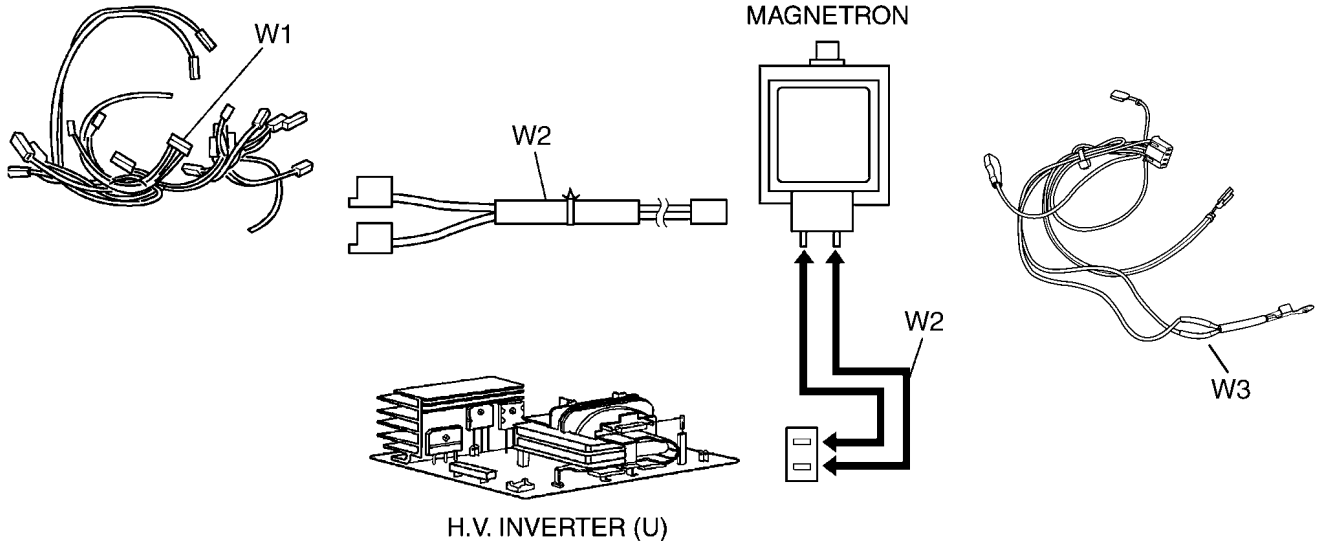
Components identified by \triangle mark have special characteristics important for safety.

When replacing any of these components, use only manufacturer's specified parts.

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
1		F00066V00HP	CAUTION LABEL	1	
6		F10016M60APG	BASE	1	
7		F10084T00AP	RUBBER FOOT	4	
8		F110D8U00SXP	CABINET BODY	1	GD577M (HPE, YPQ, YTE, TPE)
8		F110D8U00SMP	CABINET BODY	1	GD577M (MPQ)
8		F110D8G80SZP	CABINET BODY	1	SD577M (HPE, YPQ, YTE)
8		F110D6W80SMP	CABINET BODY	1	SD577M (MPQ)
8		F110D8U00HXP	CABINET BODY	1	GT547W (HPE, YTE, TPE)
8		F110D8U00HMP	CABINET BODY	1	GT547W (MPQ)
9	\triangle	F200A5R50CP	OVEN	1	GD577M
9	\triangle	F200A8B50SWT	OVEN	1	SD577M
9	\triangle	F200A8G20BP	OVEN	1	GT547W
10		F20555Q00BP	COVER	1	
11		F21315G10XN	PULLY SHAFT	1	
12		F290D5Q00AP	ROLLER RING (U)	1	
13	\triangle	F30205Q00AP	DOOR HOOK	1	
14		F31365Q00AP	HOOK LEVER A	1	
15		F400A5U00XN	FAN MOTOR	1	
16		F40085G10XN	FAN BLADE	1	
17		F40255Q00AP	AIR GUIDE A	1	
18		F40425Q00APG	AIR GUIDE F	1	
19		F612E8F60QP	INCANDESCENT LAMP (U)	1	
21		F41445Q00AP	UPPER ORIFICE	1	
23		F64505Q00APG	SENSOR COVER B	1	GD577M, SD577M
24		F65434W00AP	SENSOR COVER C	1	GD577M, SD577M
25		A707S4T00AP	STEAM SENSOR	1	GD577M, SD577M
26	\triangle	F61425U30XN	MICRO SWITCH	1	V-15G-3C25 (PRIMARY LATCH SWITCH)
27	\triangle	F61415U30XN	MICRO SWITCH	1	D3V-16G-3C25 (SECONDARY LATCH SWITCH)
28	\triangle	F61785U30XN	MICRO SWITCH	1	D3V-1G-2C25 (SHORT SWITCH)
29	\triangle	2M261-M32KLP	MAGNETRON	1	
31	\triangle	F62306V60BP	FUSE	1	(10A)
32		MKPX2335K	CAPACITOR	1	
33		F62315G10XN	FUSE HOLDER	1	
34		F63265U30XN	TURNTABLE MOTOR	1	
35	\triangle	F900C5Q00YK	AC CORD W/PLUG	1	HPE, MPQ, YTE
35	\triangle	F900C8G60TP	AC CORD W/PLUG	1	TPE
35	\triangle	F900C5Q00YP	AC CORD W/PLUG	1	YPQ
36		F606YM300BP	H.V. INVERTER (U)	1	
37		F65856M60AP	INVERTER BRACKET	1	
38		F66626H60AP	GROUNDING PLATE	1	
39		F61458B80ZP	THERMAL CUTOUT	1	
40		F22175R00APG	INSULATION PLATE	1	GD577M, GT547W
41		XTWFA4+12T	SCREW	4	FOR MAGNETRON
44		XTWFA4+12D	SCREW	4	FOR CABINET BODY
45		XTCAFA4+12AFS	SCREW	1	FOR CABINET BODY SIDE (GD577M, SD577M)
45		XTCAFA4+12AFW	SCREW	1	FOR CABINET BODY SIDE (GT547W)
51		F630G5R60GP	HEATER (AU)	2	GD577M (HPE, YTE, TPE)
51		F630G5R60BP	HEATER (AU)	2	GD577M (YPQ, MPQ)
51		F630G6B80XN	HEATER (AU)	2	GT547W (HPE, YTE, TPE)
51		F630G5R00BP	HEATER (AU)	2	GT547W (MPQ)
52		F64605R00BP	HEATER SUPPORT	2	GD577M, GT547W
55		F40245R00BPG	EXHAUST GUIDE A	1	GD577M, GT547W
57		F01508G60HP	NO TOUCHING LABEL	1	GD577M, GT547W

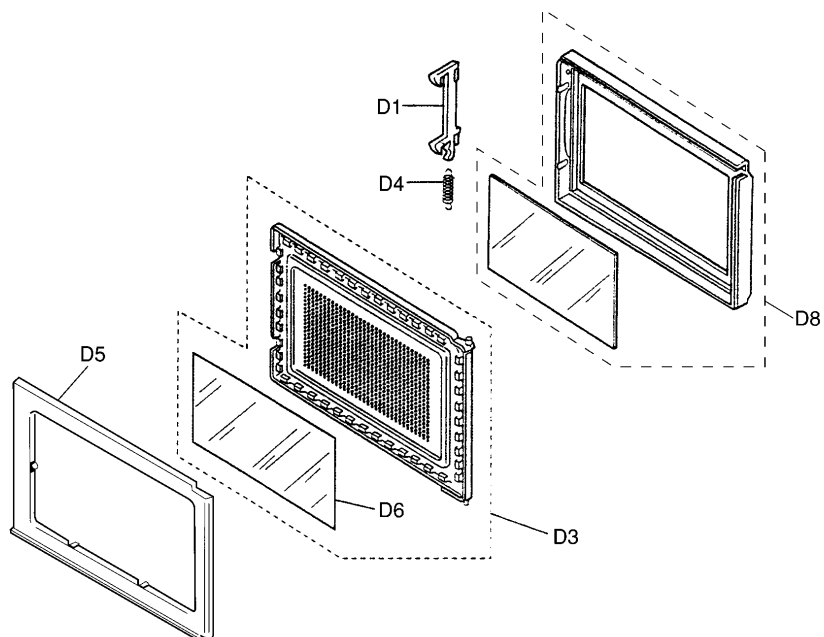
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
58	F20345Q00CP	REINFORCE BRACKET	1	
60	F11404J60XN	STOPPER	2	
62	F00066W10MP	CAUTION LABEL	1	YPQ
62	F00068H00YT	CAUTION LABEL	1	YTE
63	F02848B60YP	NO. LABEL	1	GD577M (YPQ)
63	F02848B90YP	NO. LABEL	1	SD577M (YPQ)
64	F0005-6S10	EARTH LABEL	1	TPE

4.3. WIRING MATERIALS



Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
W1	F030A8J00XP	LEAD WIRE HARNESS	1	GD577M,GT547W
W1	F030A8B90HP	LEAD WIRE HARNESS	1	SD577M
W2	F030E5Q00AP	H.V.LEAD WIRE	1	
W3	F03538B80ZP	LEAD WIRE HARNESS U	1	(INCLUDING THERMISTOR)

4.4. DOOR ASSEMBLY



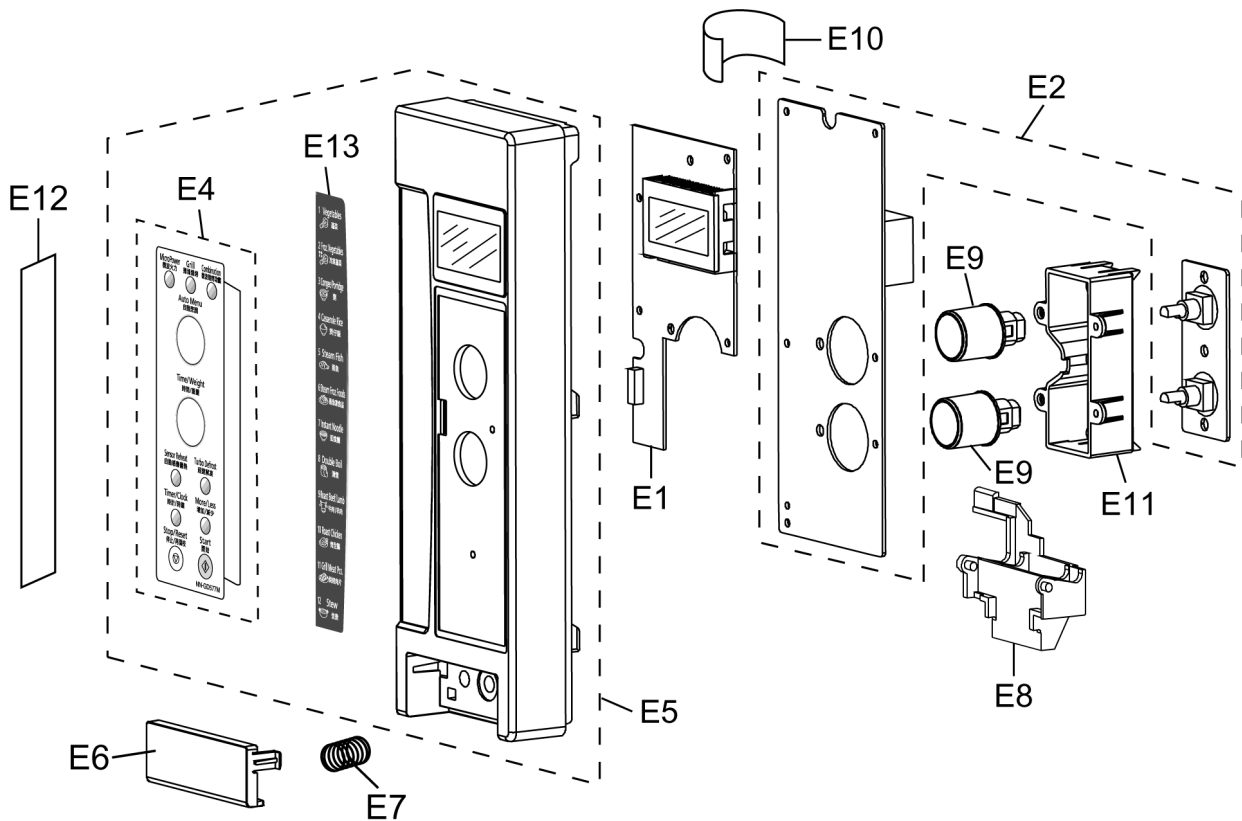
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
D1	F30185Q00AP	DOOR KEY A	1	
D3	△ F302K5Q00AP	DOOR E (U)	1	
D4	F30215G10XN	DOOR KEY SPRING	1	
D5	△ F30855Q00AP	DOOR C	1	
D6	F31456V60XP	DOOR SCREEN A	1	
D8	△ F302A8U10SXP	DOOR A (U)	1	GD577M, SD577M
D8	△ F302A8U20HXP	DOOR A (U)	1	GT547W

4.5. H.V. INVERTER MAIN PARTS LIST

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
Q701	A691EM300BP	IGBT	1	
Q702		IGBT	1	
C701	ECWF5184N300	FILM CAPACITOR	1	
C702	ECQE2505T869	FILM CAPACITOR	1	
C703	ECWF2395N632	FILM CAPACITOR	1	
DB701	B0FBBS000001	RECTIFIER BRIDGE	1	
L701	F5020M300GP	CHOKE COIL	1	
R702	D0CM352JA002	SAND BAR RESISTOR	1	
T701	A609AM300GP	TRANSFORMER	1	(INCLUDING D701, D702, C706, C707)
D701, D702	△ B0FBAZ000001	DIODE	2	
C706	ECWH30562U03	FILM CAPACITOR	1	
C707	ECWH30432U04	FILM CAPACITOR	1	

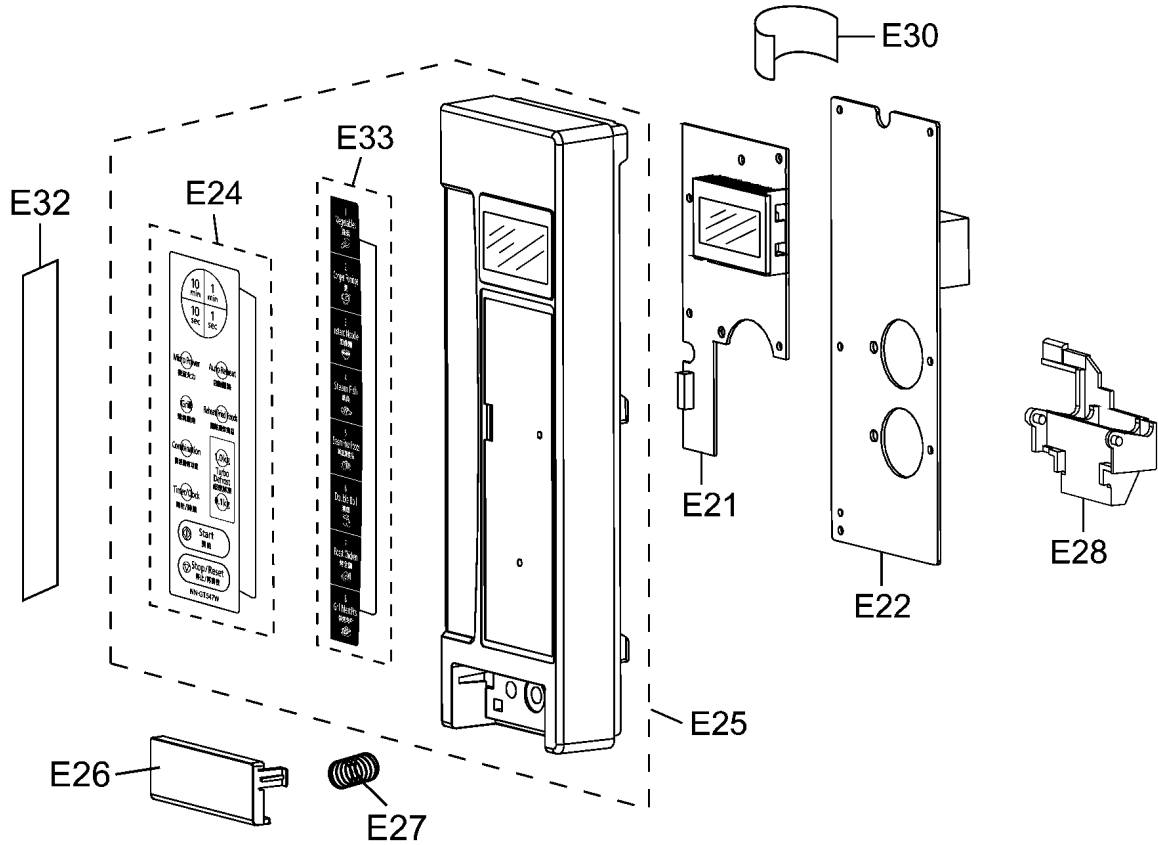
4.6. ESCUTCHEON BASE ASSEMBLY

4.6.1. NN-GD577M, SD577M



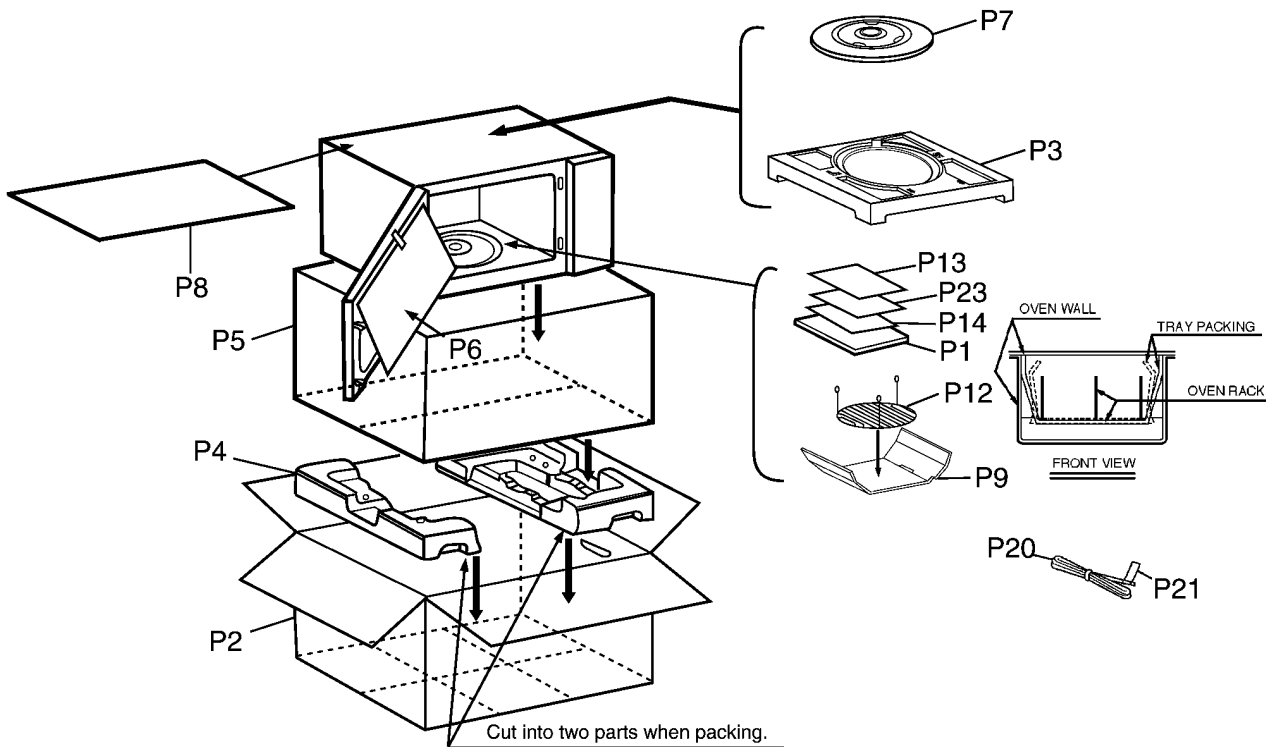
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
E1	F603L8B80HP	D.P. CIRCUIT (AU)	1	GD577M (HPE, TPE)
E1	F603L8B80YP	D.P. CIRCUIT (AU)	1	GD577M (YPQ)
E1	F603L8B80MP	D.P. CIRCUIT (AU)	1	GD577M (MPQ)
E1	F603L8B80YT	D.P. CIRCUIT (AU)	1	GD577M (YTE)
E1	F603L8B90HP	D.P. CIRCUIT (AU)	1	SD577M (HPE)
E1	F603L8B90YP	D.P. CIRCUIT (AU)	1	SD577M (YPQ)
E1	F603L8B90MP	D.P. CIRCUIT (AU)	1	SD577M (MPQ)
E1	F603L8B90YT	D.P. CIRCUIT (AU)	1	SD577M (YTE)
E2	F603Y8B80ZP	D.P. CIRCUIT (DU)	1	GD577M
E2	F603Y8B90HP	D.P. CIRCUIT (DU)	1	SD577M
E4	F630Y8B80SHP	MEMBRANE SWITCH (U)	1	GD577M
E4	F630Y8B90SHP	MEMBRANE SWITCH (U)	1	SD577M
E5	F800L8B80SHP	ESCUTCHEON BASE (U)	1	GD577M (INCLUDING MENU SHEET)
E5	F800L8B90SHP	ESCUTCHEON BASE (U)	1	SD577M (INCLUDING MENU SHEET)
E6	F80728U10SXP	DOOR OPENING BUTTON	1	GD577M, SD577M
E7	F80375K00AP	COOK BUTTON SPRING	1	
E8	F82565Q00AP	DOOR OPENING LEVEL	1	
E9	F803G8G60SZP	POP-UP DIAL (U)	2	GD577M, SD577M
E10	F66168J00XP	FLAT CABLE	1	GD577M, SD577M
E11	F80188B80ZP	BACKSTOP	2	GD577M, SD577M
E12	F00078B80SHP	NAME PLATE	1	GD577M (HPE)
E12	F00078B80SYP	NAME PLATE	1	GD577M (YPQ)
E12	F00078B80SMP	NAME PLATE	1	GD577M (MPQ)
E12	F00078B80SYT	NAME PLATE	1	GD577M (YTE)
E12	F00078B80STP	NAME PLATE	1	GD577M (TPE)
E12	F00078B90SHP	NAME PLATE	1	SD577M (HPE)
E12	F00078B90SYP	NAME PLATE	1	SD577M (YPQ)
E12	F00078B90SMP	NAME PLATE	1	SD577M (MPQ)
E12	F00078B90SYT	NAME PLATE	1	SD577M (YTE)
E13	F83368B80SHP	MENU SHEET	1	GD577M
E13	F83368B90SHP	MENU SHEET	1	SD577M

4.6.2. NN-GT547W



Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
E21	F603L8B70HP	D.P. CIRCUIT (AU)	1	GT547W (HPE,TPE)
E21	F603L8B70MP	D.P. CIRCUIT (AU)	1	GT547W (MPQ)
E21	F603L8B70YT	D.P. CIRCUIT (AU)	1	GT547W (YTE)
E22	F603Y8B70HP	D.P. CIRCUIT (DU)	1	GT547W
E24	F630Y8B70HHP	MEMBRANE SWITCH(AU)	1	GT547W
E25	F800L8B70HHP	ESCUTCHEON BASE (U)	1	GT547W
E26	F80728U10HXP	DOOR OPENING BUTTON	1	GT547W
E27	F80375K00AP	COOK BUTTON SPRING	1	
E28	F82565Q00AP	DOOR OPENING LEVEL	1	
E30	F66168J00XP	FLAT CABLE	1	
E32	F00078B70HHP	NAME PLATE	1	GT547W (HPE)
E32	F00078B70HMP	NAME PLATE	1	GT547W (MPQ)
E32	F00078B70HYT	NAME PLATE	1	GT547W (YTE)
E32	F00078B70HTP	NAME PLATE	1	GT547W (TPE)
E33	F630N8B70HP	MEMBRANE SWITCH(BU)	1	GT547W

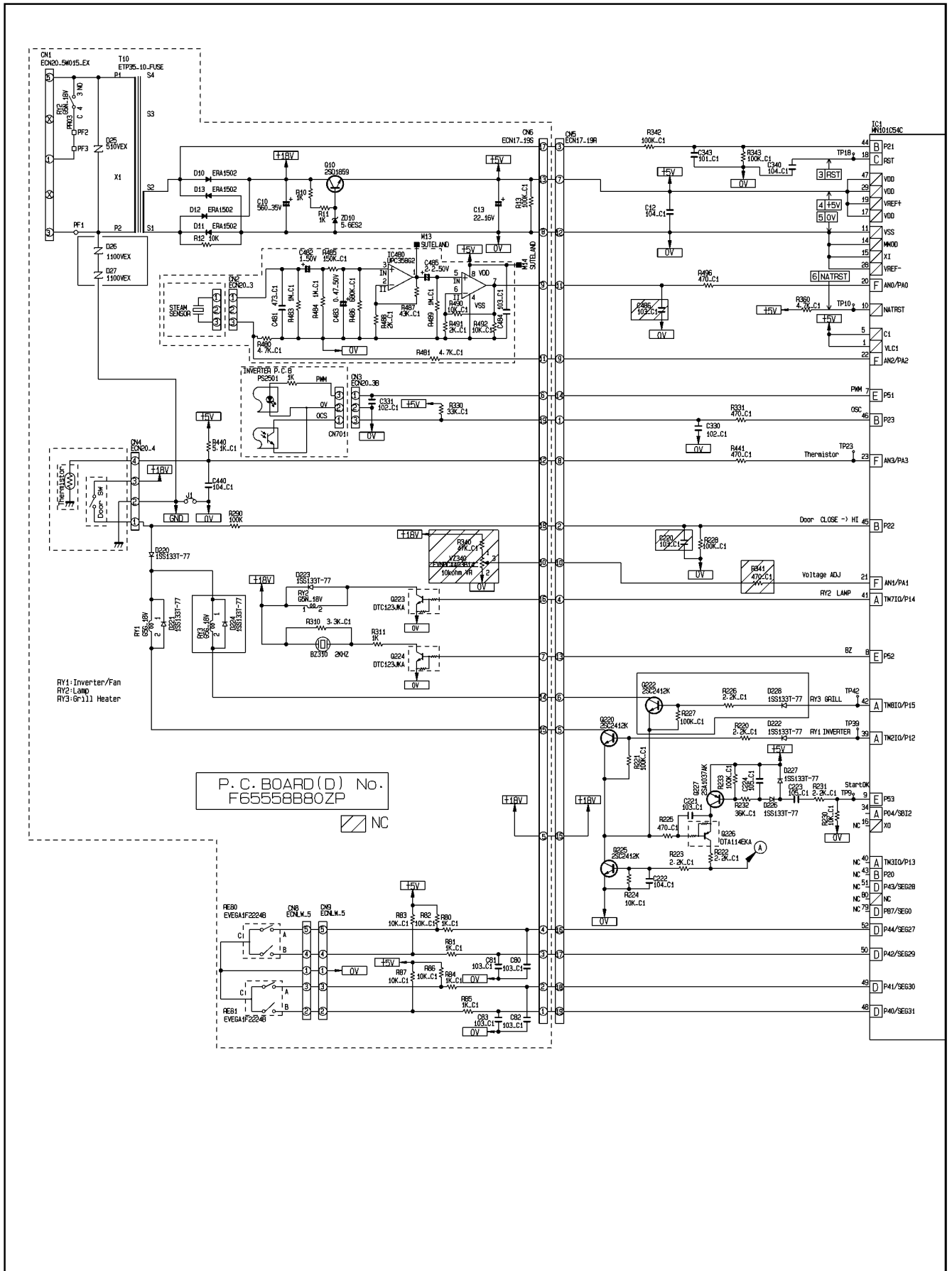
4.7. PACKING AND ACCESSORIES

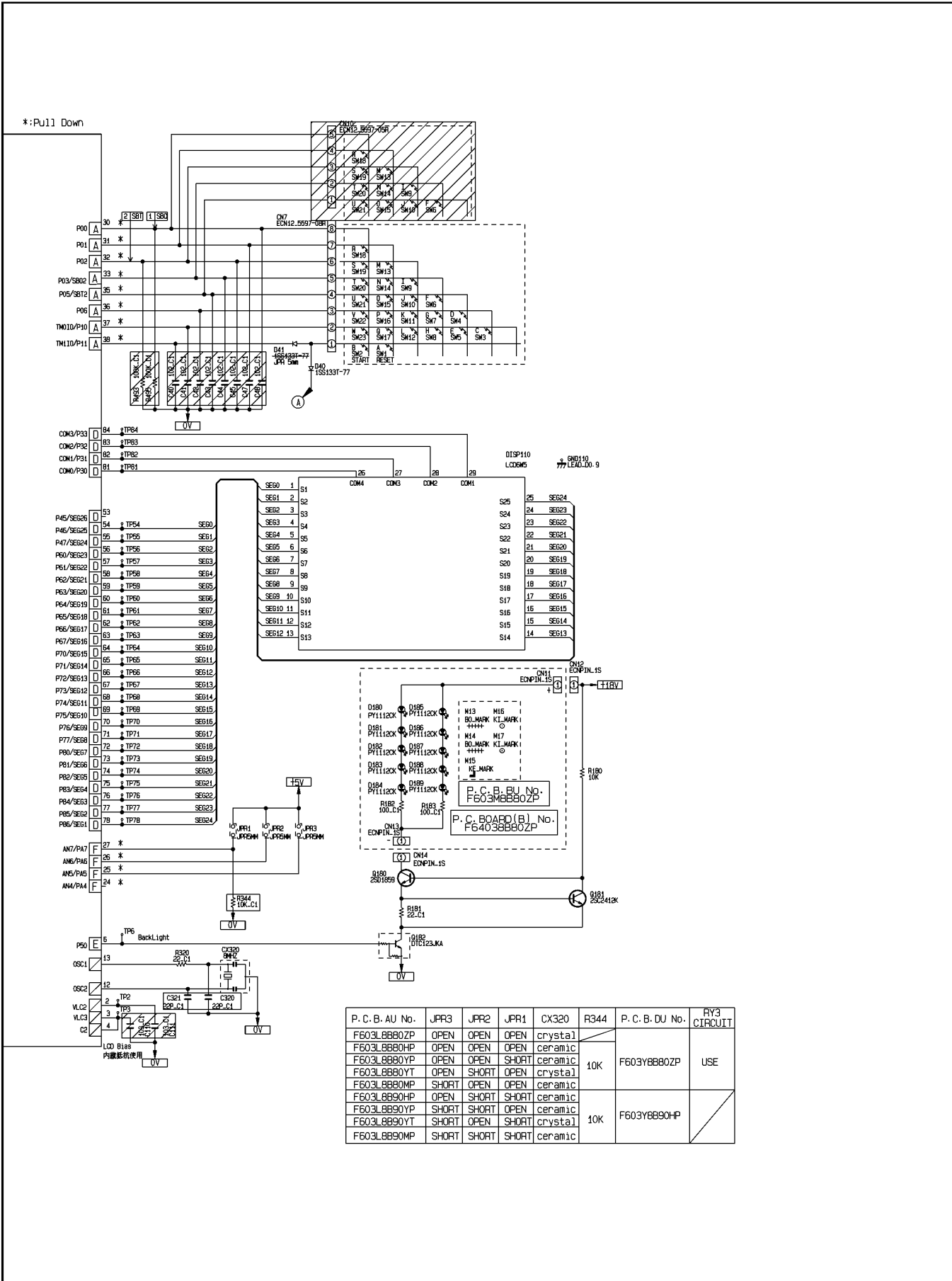


Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
P1	F00038B80HP	INSTRUCTION MANUAL	1	GD577M
P1	F00038B90HP	INSTRUCTION MANUAL	1	SD577M
P1	F00038B70HP	INSTRUCTION MANUAL	1	GT547W
P2	F01028B80SHP	PACKING CASE, PAPER	1	GD577M
P2	F01028B90SHP	PACKING CASE, PAPER	1	SD577M
P2	F01028B70HHP	PACKING CASE, PAPER	1	GT547W
P3	F01045Q00AP	UPPER FILLER	1	
P4	F01055Q00AP	LOWER FILLER	1	
P5	F01068100XN	P. E. BAG	1	
P6	F01078J00XN	DOOR SHEET	1	
P7	F06015Q00AP	COOKING TRAY	1	
P8	F01924T00AP	SHEET	1	
P9	F01085R00AP	RACK PACKING	1	GD577M, GT547W
P12	F060V5U00XN	OVEN RACK	1	
P13	F04478B80SMP	OVERLAY	1	GD577M (YPQ, MPQ)
P13	F04478B80STP	OVERLAY	1	GD577M (TPE)
P13	F04478B90SMP	OVERLAY	1	SD577M (YPQ, MPQ)
P13	F04478B70BMP	OVERLAY	1	GT547W (MPQ)
P13	F04478B70BTP	OVERLAY	1	GT547W (TPE)
P14	F000B6V70MP	COOKING GUIDE	1	
P20	F91644000XN	EARTH LEAD	1	TPE
P21	F00324040XN	EARTH CAUTION LABEL	1	TPE
P23	F04468B80SMP	OVERLAY	1	GD577M (YPQ, MPQ)
P23	F04468B80STP	OVERLAY	1	GD577M (TPE)
P23	F04468M90SMP	OVERLAY	1	SD577M (YPQ, MPQ)
P23	F04468B70BMP	OVERLAY	1	GT547W (MPQ)
P23	F04468B70BTP	OVERLAY	1	GT547W (TPE)

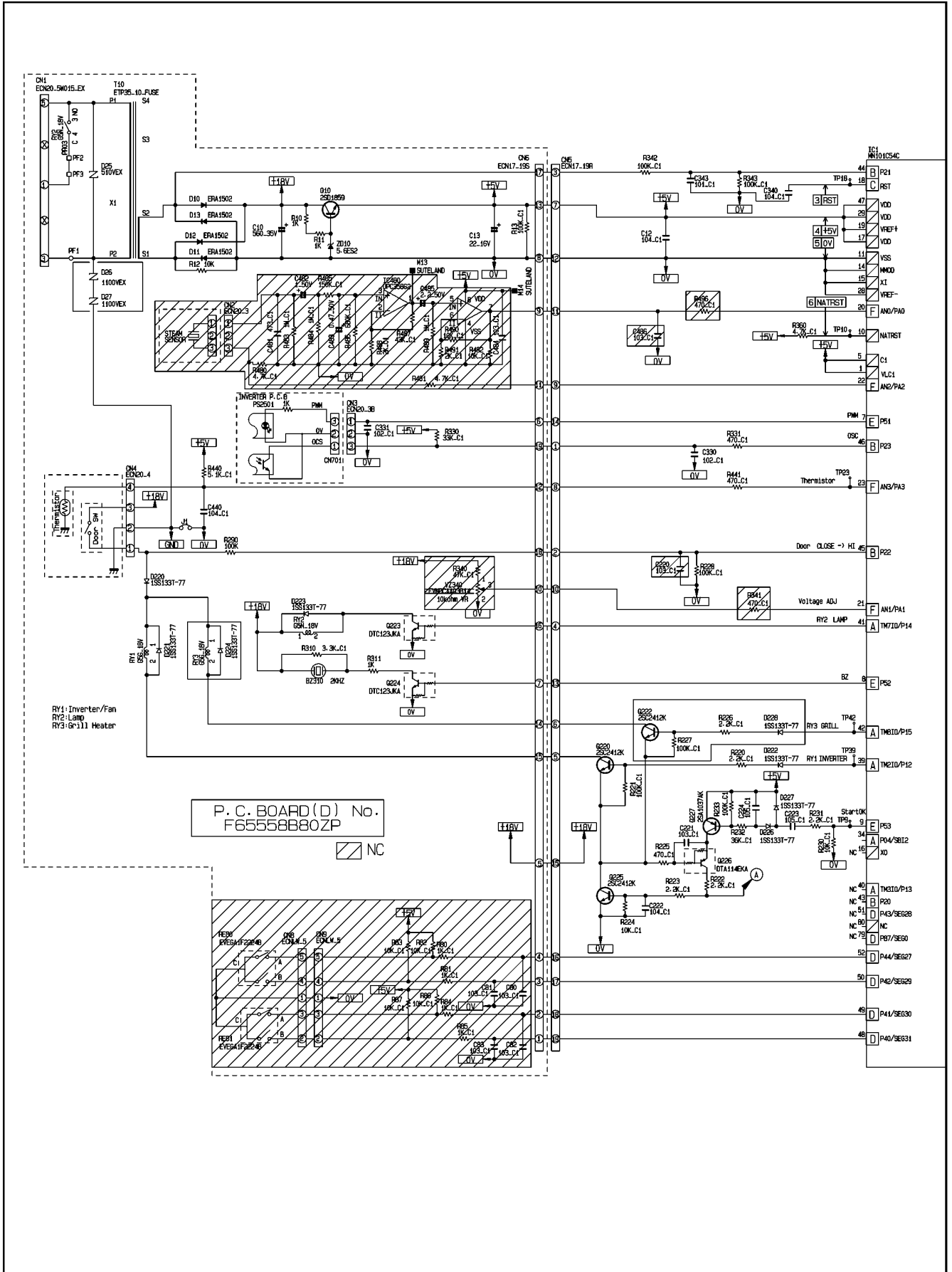
5 DIGITAL PROGRAMMER CIRCUIT

5.1. SCHEMATIC DIAGRAM (NN-GD577M, SD577M)





5.2. SCHEMATIC DIAGRAM (NN-GT547W)



5.3. PARTS LIST

5.3.1. NN-GD577M, SD577M

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310	L0DDEA000014	BUZZER	1	2.0KHz
C10	AECETK1V561B	AL CHEM CAPACITOR	1	560µF/35V
C13	AECETS1C220B	AL CHEM CAPACITOR	1	22µF/16V
C482	AECETS1H010B	AL CHEM CAPACITOR	1	1µF/50V
C483	AECETS1HR47B	AL CHEM CAPACITOR	1	0.47µF/50V
C485	AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2µF/50V
CX320	H2B8004A0008	CERAMIC RESONATOR	1	EXCEPT YTE (8.0MHz)
CX320	H1A8004A0014	CRYSTAL RESONATOR	1	YTE (8.0MHz)
DISP110	L5AAAFD00027	LCD	1	
DISP1 HOLDER	F66178B80ZP	LCD HOLDER	1	
	F67525E40XN	DIFFUSION SHEET	1	
D10-D13	B0EAKT000025	DIODE	4	
D40, D220-D224, D226-D228	MA2C19600E	DIODE	9	
D25	D4EAY511A036	VARISITOR	1	510V
D26, D27	D4EAY112A036	VARISITOR	2	1100V
IC1	MN101C54CJK	L.S.I.	1	
IC480	C0ABBA000230	IC	1	
Q10, Q180	B1BAAJ000003	TRANSISTOR	2	
R10, R11, R311	D0AE102JA155	CARBON RESISTOR	3	1K, 1/4W, 5%
R12, R180	D0AE103JA155	CARBON RESISTOR	2	10K, 1/4W, 5%
R290	D0AE104JA155	CARBON RESISTOR	1	100K, 1/4W, 5%
RY1	AEBGJQC25F18	POWER RELAY	1	
RY3	AEBGJQC25F18	POWER RELAY	1	GD557M
RY2	K6B1AZA00011	POWER RELAY	1	
T10	G4C3AAH00008	LOW VOLTAGE TRANSFORMER	1	
ZD10	B0BA5R600016	ZENER DIODE	1	
RE80, RE81	EVEJ1HF2224B	REVOLVING ENCODER	2	

5.3.2. NN-GT547W

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310	L0DDEA000014	BUZZER	1	2.0KHz
C10	AECETK1V561B	AL CHEM CAPACITOR	1	560µF/35V
C13	AECETS1C220B	AL CHEM CAPACITOR	1	22µF/16V
CX320	H2B8004A0008	CERAMIC RESONATOR	1	EXCEPT YTE (8.0MHz)
CX320	H1A8004A0014	CRYSTAL RESONATOR	1	YTE (8.0MHz)
DISP110	L5AAAFD00027	LCD	1	
DISP1 HOLDER	F66178B80ZP	LCD HOLDER	1	
	F67525E40XN	DIFFUSION SHEET	1	
D10-D13	B0EAKT000025	DIODE	4	
D40, D220-D224, D226-D228	MA2C19600E	DIODE	9	
D25	D4EAY511A036	VARISITOR	1	510V
D26, D27	D4EAY112A036	VARISITOR	2	1100V
IC1	MN101C54CJL	L.S.I.	1	
Q10, Q180	B1BAAJ000003	TRANSISTOR	2	
R10, R11, R311	D0AE102JA155	CARBON RESISTOR	3	1K, 1/4W, 5%
R12, R180	D0AE103JA155	CARBON RESISTOR	2	10K, 1/4W, 5%
R290	D0AE104JA155	CARBON RESISTOR	1	100K, 1/4W, 5%
RY1, RY3	AEBGJQC25F18	POWER RELAY	2	
RY2	K6B1AZA00011	POWER RELAY	1	
T10	G4C3AAH00008	LOW VOLTAGE TRANSFORMER	1	
ZD10	B0BA5R600016	ZENER DIODE	1	