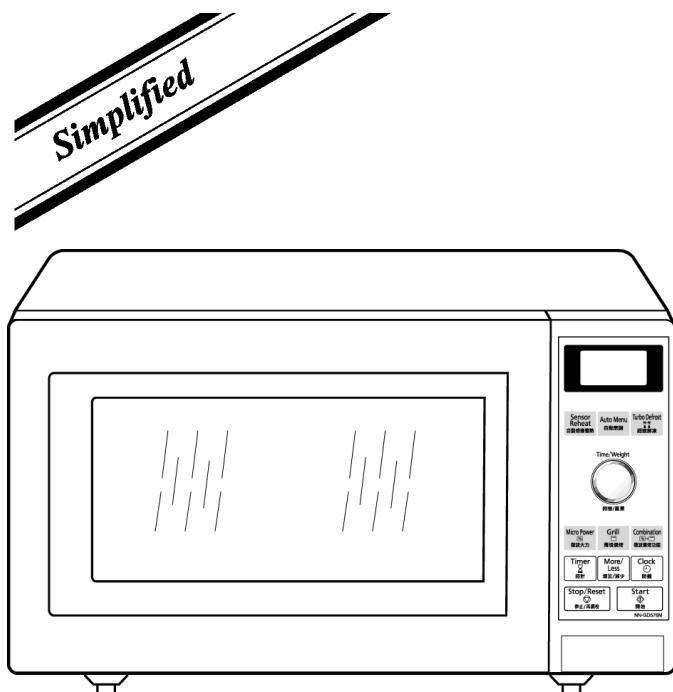


Service Manual

Microwave Oven



NN-GD576M
NN-GD576W
NN-GT546W
NN-ST556M
NN-ST556W

HPE(Hong Kong)

YPQ(Singapore)

MPQ(Malaysia)

TPE(Thailand, Indonesia)

YTE(Others)

KTE(UAE)

PTE(Iran)

KPQ(Kuwait, Doha, Qatar, Oman, Bahrain, Pakistan)

STM(Saudi Arabia)

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

Specification

Model		GD576M	GD576W	GT546W	ST556M	ST556W
Power Source:		240V AC Single Phase, 50Hz ----- For KPQ, MPQ, YPQ Models 220V AC Single Phase, 50Hz ----- For KTE, HPE, TPE, YTE, PTE Models 220V AC Single Phase, 50Hz/60Hz ----- For STM Models				
Power Requirement:	Microwave	1000W	1000W	900W	1000W	1000W
	Heater	1350W	1350W	1150W	————	————
Output:	Microwave	1100W	1100W	1000W	1100W	1100W
	Heater	1300W	1300W	1100W	————	————
Microwave Frequency:		2450MHz				
Timer:		90min.00sec		99min.99sec		
Outside Dimensions:		510mm(W) x 380mm(D) x 304mm(H)				
Oven Cavity Dimensions:		359mm(W) x 352mm(D) x 217mm(H)				
Weight:		12.5kg			11.5kg	
PbF		This product with PbF				
Specifications subject to change without notice.						

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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.

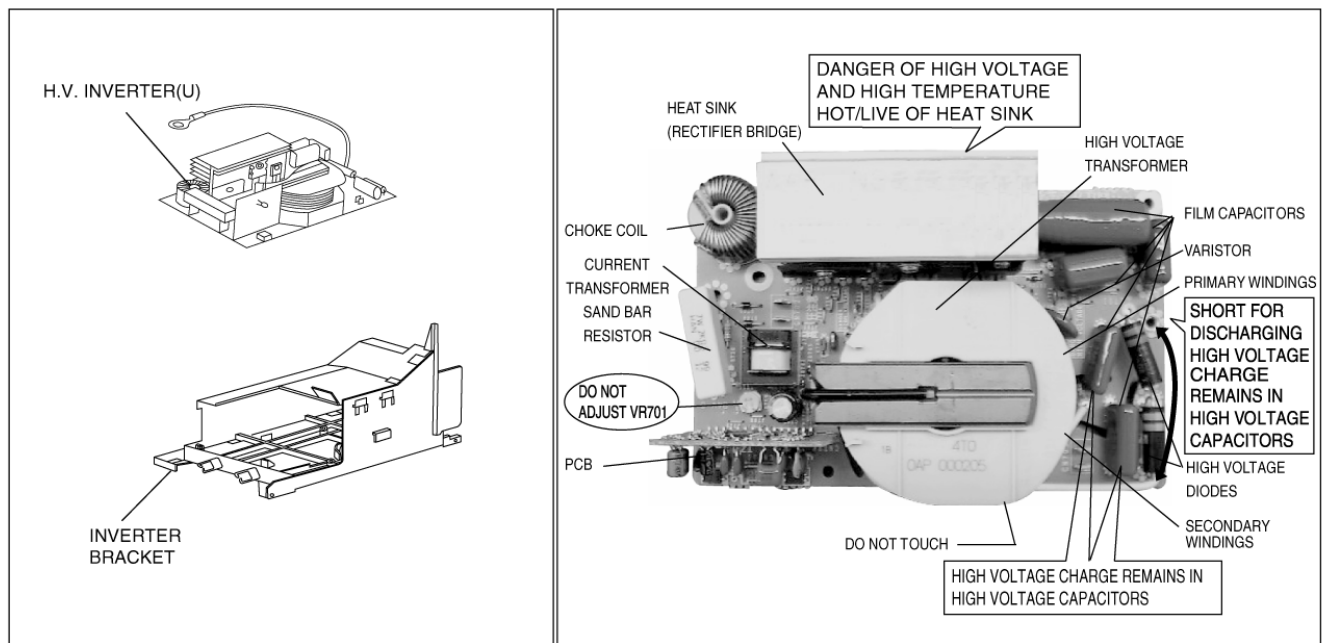
It functions the same as the high voltage transformer and high voltage capacitor in ordinary microwave ovens.

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.
- * 5. Do not try to repair Inverter PCB because it is very dangerous to repair. Replace as a complete High Voltage Inverter Circuit unit.

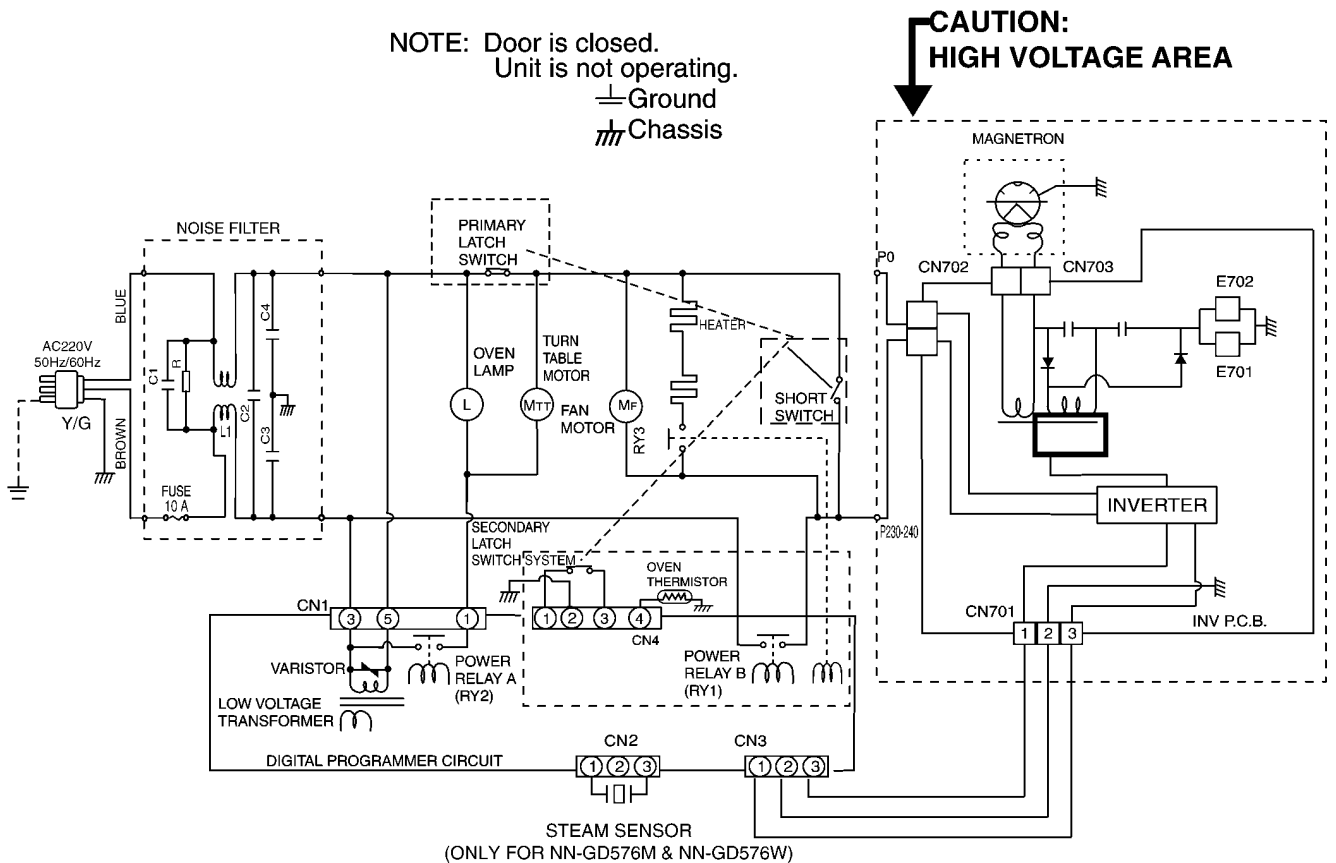
INVERTER POWER SUPPLY



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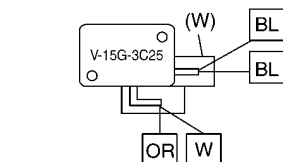
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2 SCHEMATIC DIAGRAM (Except STM)	6	5 EXPLODED VIEW AND PARTS LIST	10
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1 SCHEMATIC DIAGRAM (STM)

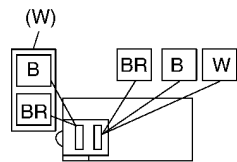


WIRING DIAGRAM

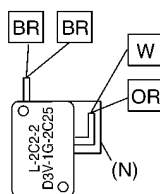
NOTE: * When replacing, check the lead wire color as shown.
* Colors shown by () indicate colors of lead wire connector housing.



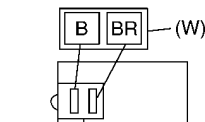
PRIMARY LATCH SWITCH TOP



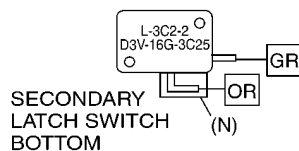
POWER RELAY B(RY1)



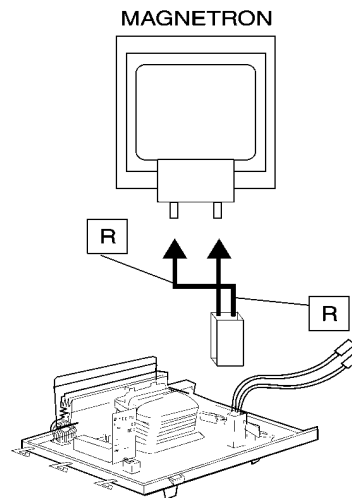
SHORT SWITCH MIDDLE



POWER RELAY (RY3)



SECONDARY LATCH SWITCH BOTTOM

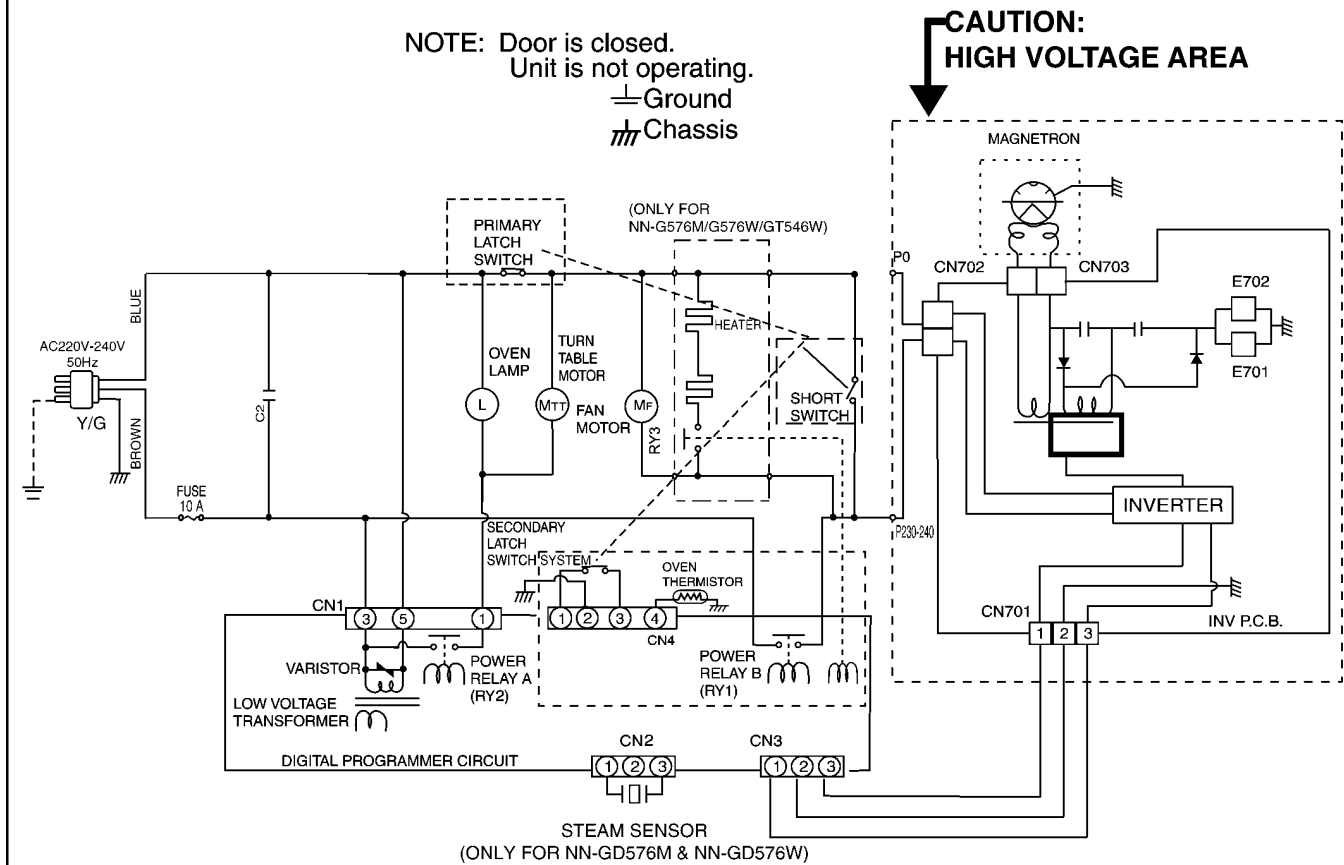


HIGH VOLTAGE INVERTER

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

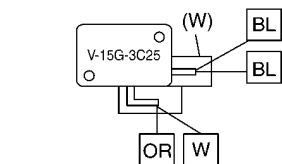
(S-8G6)

2 SCHEMATIC DIAGRAM (Except STM)

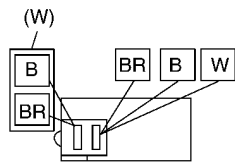


WIRING DIAGRAM

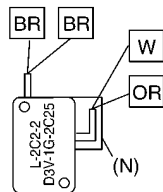
NOTE: * When replacing, check the lead wire color as shown.
*Colors shown by () indicate colors of lead wire connector housing.



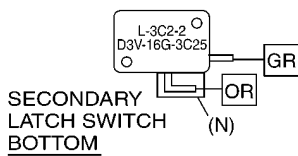
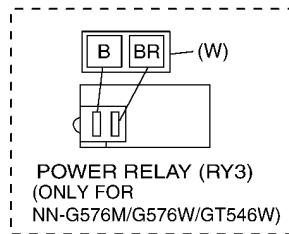
PRIMARY LATCH SWITCH TOP



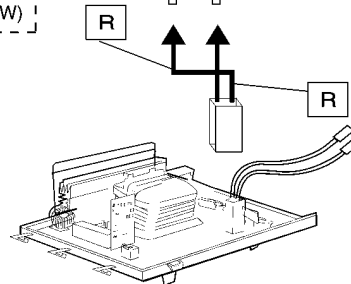
POWER RELAY B(RY1)



SHORT SWITCH MIDDLE



MAGNETRON



HIGH VOLTAGE INVERTER

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

(S-8G6)

(S-8G7)

(S-8G9)

3 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.

3.1. 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.

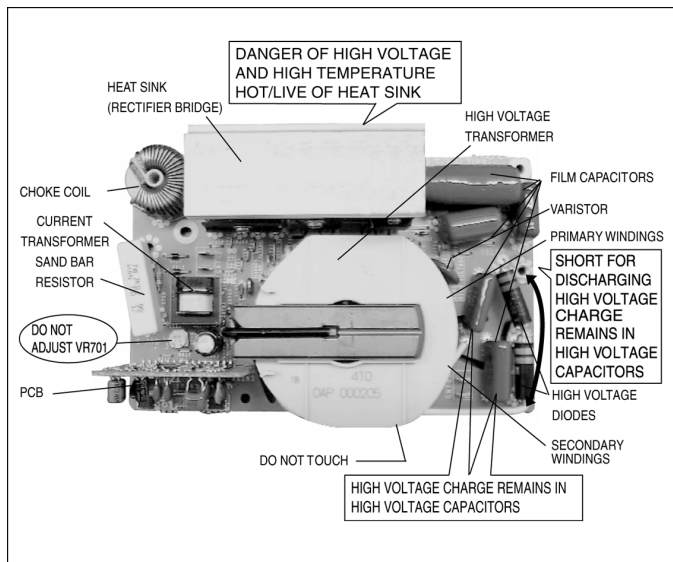
3.2. Inverter warnings

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.

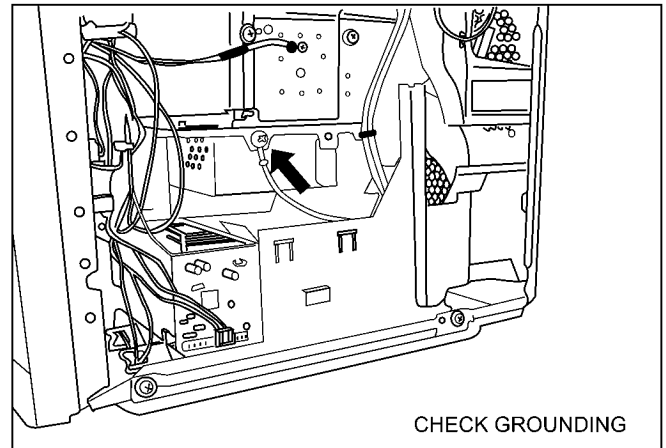
The aluminum heat sink may be HOT due to heat energy, therefore, extreme care should be taken during servicing.



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.

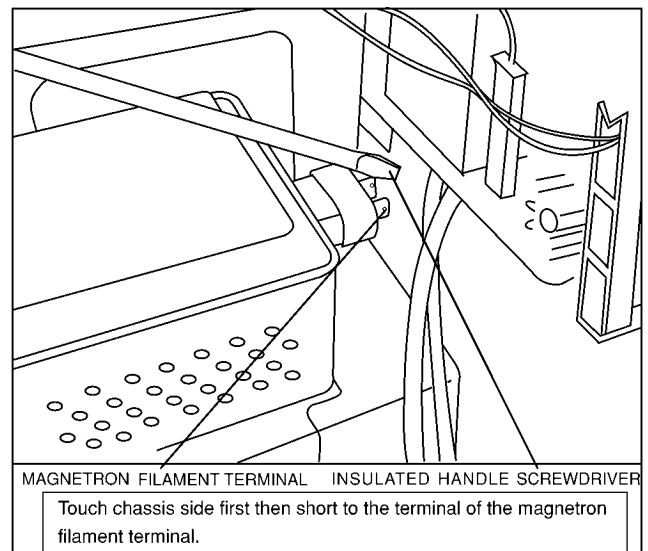


Grounding of the inverter circuit board

WARNING! DISCHARGE THE HIGH VOLATGE 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.

3.3. Part replacement.

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

3.4. 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.

3.5. 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.

3.6. 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.

3.7. 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.

4 MEASUREMENTS AND ADJUSTMENTS

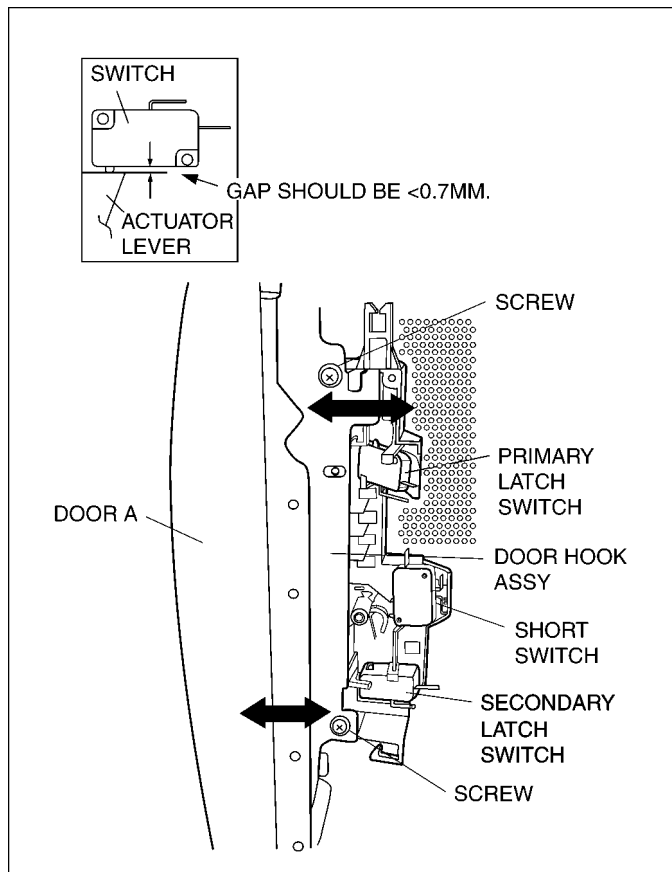
4.1. Adjustment of primary latch switch, secondary latch switch and short switch.

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.



4.2. 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.

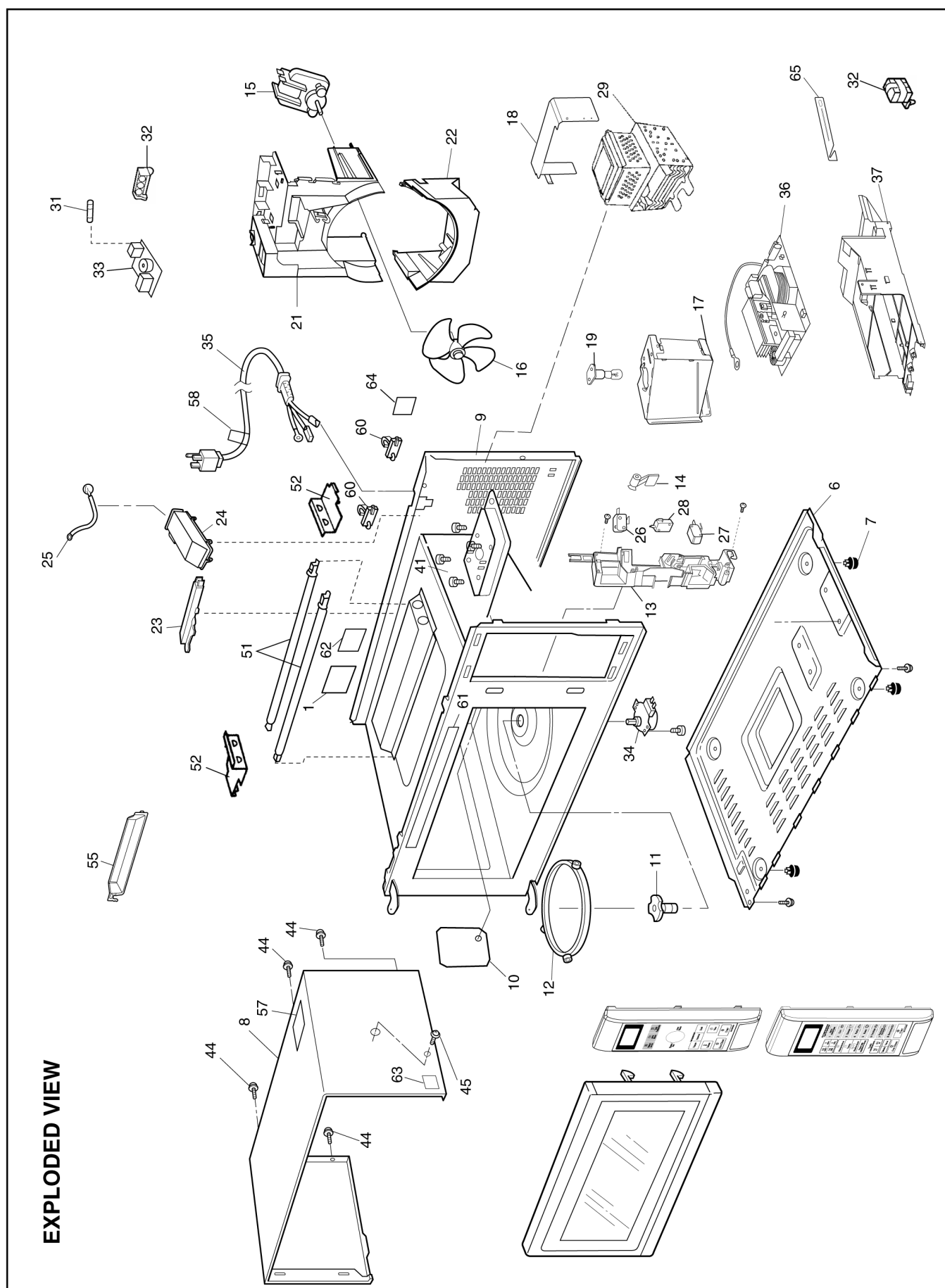
1. Fill the beaker with exactly one liter of tap water. Stir the water using the thermometer and record the water's temperature. (recorded as T1).
2. Place the beaker on the center of glass tray. Set the oven for High power and heat it for exactly one minute.
3. Stir the water again and read the temperature 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

5 EXPLODED VIEW AND PARTS LIST

5.1. EXPLODED VIEW



5.2. 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:

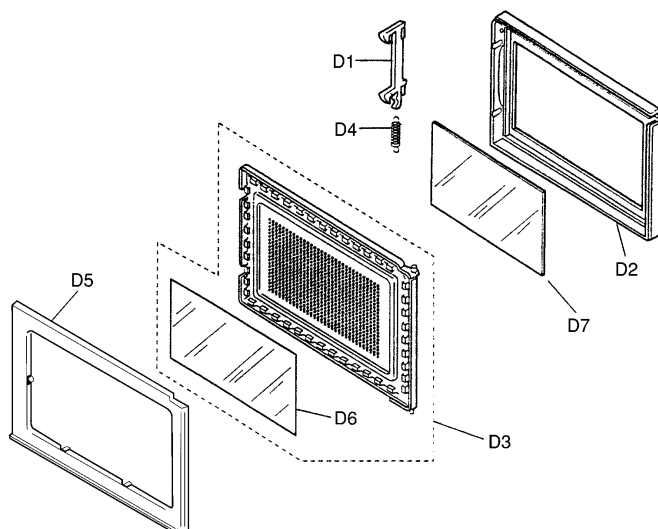
Components identified by $\triangle$ mark have special characteristics important for safety.

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

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
1		F00066V00HP	CAUTION LABEL	1	
6		F10015Q00APG	BASE	1	
7		F10084T00AP	RUBBER FOOT	4	
8		F110D8J00SXP	CABINET BODY	1	GD576M(EXCEPT MPQ)
8		F110D8J00SMP	CABINET BODY	1	GD576M(MPQ)
8		F110D6W70HXP	CABINET BODY	1	GD576W,GT546W
8		F110D8G80SZP	CABINET BODY	1	ST556M
8		F110D6W80HXP	CABINET BODY	1	ST556W
9	$\triangle$	F200A5R50CP	OVEN	1	GD576M,GD576W
9	$\triangle$	F200A5R20BP	OVEN	1	GT546W
9	$\triangle$	F200A5Q30BP	OVEN	1	ST556M,ST556W
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		F612E8H00XP	INCANDESCENT LAMP (U)	1	
21		F41445Q00XP	UPPER ORIFICE	1	EXCEPT STM
21		F41445Q00AP	UPPER ORIFICE	1	STM
22		F42095Q00AP	LOWER ORIFICE	1	GD576W(STM)
23		F64505Q00APG	SENSOR COVER B	1	GD576M,GD576W
24		F65434W00AP	SENSOR COVER C	1	GD576M,GD576W
25		A707S4T00AP	STEAM SENSOR	1	GD576M,GD576W
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-M32KLY	MAGNETRON	1	EXCEPT STM
29	$\triangle$	2M261-M32J	MAGNETRON	1	STM
31	$\triangle$	F62306V60BP	FUSE	1	(10A)
32		F62315G10XN	FUSE HOLDER	1	EXCEPT GD576W(STM)
33		F607X8A00BP	NOISE FILTER (U)	1	GD576W(STM)
34		F63265U30XN	TURNTABLE MOTOR	1	
35	$\triangle$	F900C5Q00YK	AC CORD W/PLUG	1	EXCEPT PTE , STM & YPQ
35	$\triangle$	F900C5Q00TN	AC CORD W/PLUG	1	PTE
35	$\triangle$	F900C8G60ZP	AC CORD W/PLUG	1	TPE
35	$\triangle$	F900C5G40SN	AC CORD W/PLUG	1	STM
35	$\triangle$	F900C5Q00YP	AC CORD W/PLUG	1	YPQ
36		F606Y4V00XN	H.V.INVERTER (U)	1	
37		F65856W50XP	INVERTER BRACKET	1	EXCEPT GD576W(STM)
37		F65855R00BP	INVERTER BRACKET	1	GD576W(STM)
41		XTWFA4+12T	SCREW	4	FOR MAGNETRON
44		XTWFA4+12D	SCREW	4	FOR CABINET BODY
45		XTCAFA4+12AFW	SCREW	1	FOR CABINET BODY SIDE (GD576W,GT546W,ST556W)
45		XTCAFA4+12AFS	SCREW	1	FOR CABINET BODY SIDE (GD576M,ST556M)
51		F630G5R20GP	HEATER (AU)	2	GD576M(HPE,YTE), GD576W (KTE,PTE,STM)
51		F630G5R60GP	HEATER (AU)	2	GD576M(TPE)
51		F630G5R20BP	HEATER (AU)	2	GD576M (MPQ,YPQ) ,GD576W (KPQ)
51		F630G6B80XN	HEATER (AU)	2	GT546W(HPE,YTE,KTE,PTE)
51		F630G5R00BP	HEATER (AU)	2	GT546W(MPQ)
52		F64605R00BP	HEATER SUPPORT	2	GD576M,GD576W,GT546W
55		F40245R00BPG	EXHAUST GUIDE A	1	GD576M,GD576W,GT546W
57		F01506W50XP	NO TOUCHING LABEL	1	GD576M,GD576W,GT546W
58		F02395E20KN	CORD CAUTION LABEL	1	KTE,PTE,KPQ,STM
60		F11404J60XN	STOPPER	2	
61		F03348G60HP	MENU LABEL	1	GD576M(HPE,YPQ,MPQ,YTE,TPE)
61		F03348G60KT	MENU LABEL	1	GD576W(KTE,PTE,KPQ,STM)
62		F00066W10MP	CAUTION LABEL	1	YPQ
62		F00068H00YT	CAUTION LABEL	1	YTE
63		F02846W10YP	NO. LABEL	1	GD576M(YPQ)

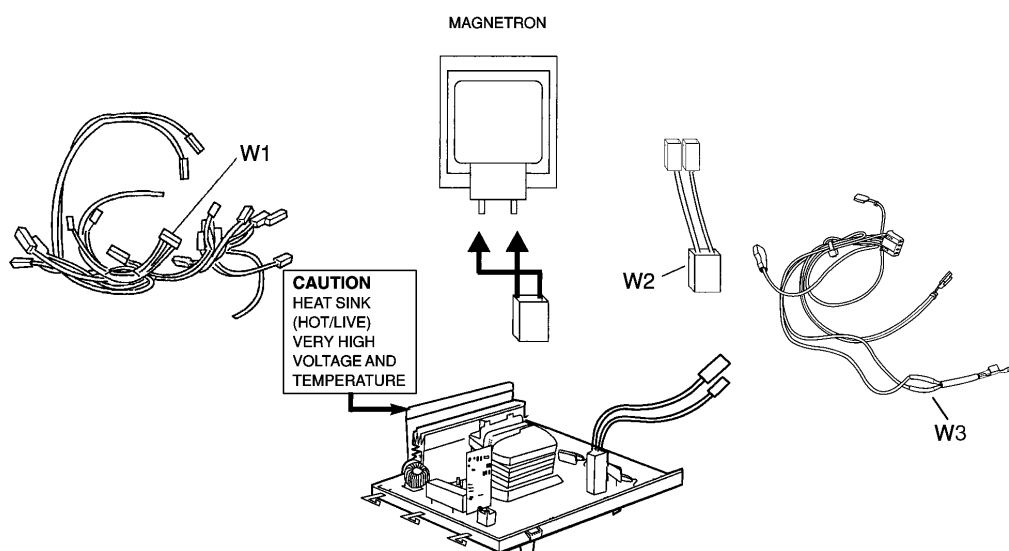
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
63	F02846W40YP	NO. LABEL	1	ST556M(YPQ)
64	F0005-6S10	EARTH LABEL	1	TPE
65	F20345Q00CP	REINFORCE BRACKET	1	

5.3. DOOR ASSEMBLY



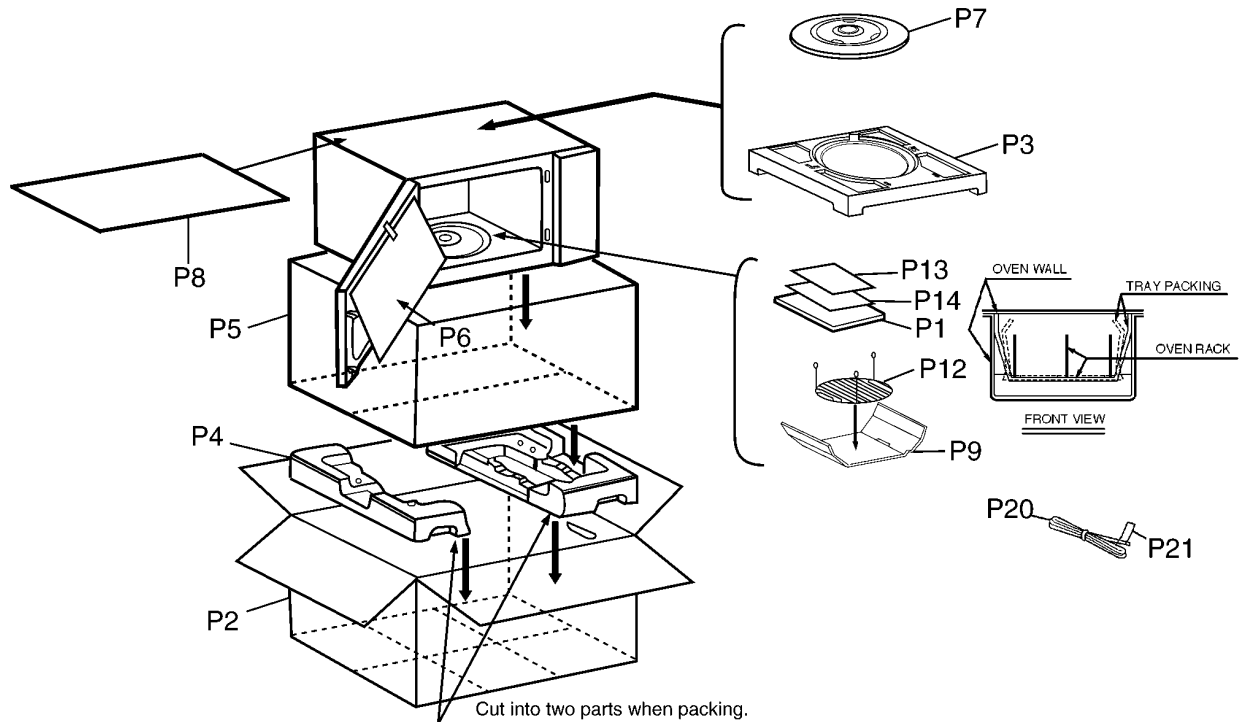
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
D1	F30185Q00AP	DOOR KEY A	1	
D2	F30018G60SZP	DOOR A	1	GD576M, ST556M
D2	F30015Q00HBP	DOOR A	1	GD576W, GT546W, ST556W
D3	F302K5Q00AP	DOOR E (U)	1	
D4	F30215G10XN	DOOR KEY SPRING	1	
D5	F30855Q00AP	DOOR C	1	
D6	F31456V60XP	DOOR SCREEN A	1	
D7	F31468G60SZP	DOOR SCREEN B	1	GD576M, GD576W, GT546W
D7	F31468G40EP	DOOR SCREEN B	1	ST556M, ST556W

5.4. WIRING MATERIALS



Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
W1	F030A6W80XP	LEAD WIRE HARNESS	1	GD576M, GD576W (EXCEPT STM), GT546W
W1	F030A5R30ZP	LEAD WIRE HARNESS	1	GD576W (STM)
W1	F030A8G90HP	LEAD WIRE HARNESS	1	ST556M, ST556W
W2	F030E5Q00AP	H.V. LEAD WIRE	1	
W3	F03535Q00AP	LEAD WIRE HARNESS U	1	(INCLUDING THERMISTOR)

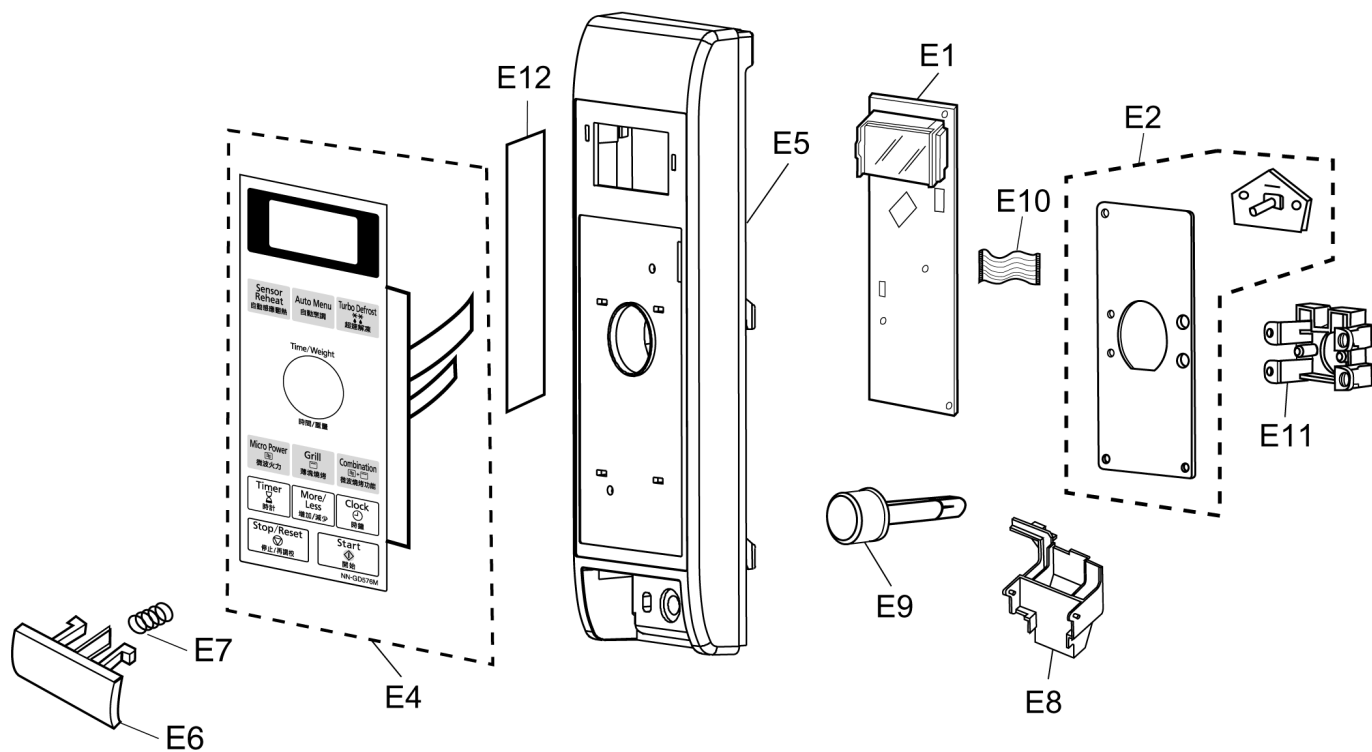
5.5. PACKING AND ACCESSORIES



Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
P1	F00038G60HP	INSTRUCTION MANUAL	1	GD576M (HPE, YPQ, MPQ, YTE, TPE)
P1	F00038G60KP	INSTRUCTION MANUAL	1	GD576W (KTE, PTE, KPQ, STM)
P1	F00038G70HP	INSTRUCTION MANUAL	1	GT546W (HPE, MPQ, YTE, TPE)
P1	F00038G70KP	INSTRUCTION MANUAL	1	GT546W (KTE, PTE)
P1	F00038G90HP	INSTRUCTION MANUAL	1	ST556M (HPE, YPQ, MPQ), ST556W (MPQ, YTE, TPE)
P2	F01028G60SHP	PACKING CASE, PAPER	1	GD576M (HPE, YPQ, MPQ, YTE, TPE)
P2	F01028G60HKT	PACKING CASE, PAPER	1	GD576W (KTE, PTE)
P2	F01028G60HKP	PACKING CASE, PAPER	1	GD576W (KPQ, STM)
P2	F01028G70HHP	PACKING CASE, PAPER	1	GT546W (HPE, MPQ, YTE, TPE)
P2	F01028G70HKT	PACKING CASE, PAPER	1	GT546W (KTE, PTE)
P2	F01028G90SHP	PACKING CASE, PAPER	1	ST556M (HPE, YPQ, MPQ)
P2	F01028G90HMP	PACKING CASE, PAPER	1	ST556W (MPQ, YTE, TPE)
P3	F01045Q00AP	UPPER FILLER	1	
P4	F01055Q00AP	LOWER FILLER	1	
P5	F01068J00XN	P.E.BAG	1	
P6	F01078I00XN	DOOR SHEET	1	
P7	F06015Q00AP	COOKING TRAY	1	
P8	F01924T00AP	SHEET	1	GD576M, ST556M, ST556W
P9	F01085R00AP	RACK PACKING	1	GD576M, GD576W, GT546W
P12	F060V5U00XN	OVEN RACK	1	GD576M, GD576W, GT546W
P13	F04458G60SMP	OVERLAY	1	GD576M (YPQ, MPQ)
P13	F04458G60STP	OVERLAY	1	GD576M (TPE)
P13	F04458G60HKT	OVERLAY	1	GD576W (KTE, PTE, KPQ, STM)
P13	F04458G70HMP	OVERLAY	1	GT546W (MPQ)
P13	F04458G70HKT	OVERLAY	1	GT546W (KTE, PTE)
P13	F04458G90SMP	OVERLAY	1	ST556M (YPQ, MPQ)
P13	F04458G90HMP	OVERLAY	1	ST556W (MPQ)
P13	F04458G90HTP	OVERLAY	1	ST556W (TPE)
P14	F000B6V70MP	COOKING GUIDE	1	HPE, YPQ, YTE, MPQ, TPE
P14	F000B7J70KP	COOKING GUIDE	1	KTE, PTE, KPQ, STM
P20	F91644000XN	EARTH LEAD	1	TPE
P21	F00324040XN	EARTH CAUTION LABEL	1	TPE

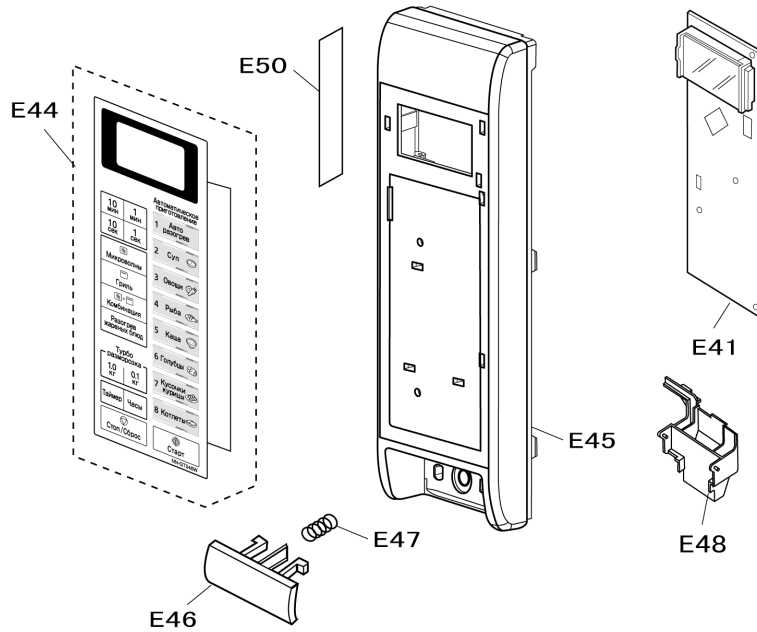
5.6. ESCUTCHEON BASE ASSEMBLY

5.6.1. NN-GD576M, NN-GD576W



Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
E1	F603L8G60HP	D.P.CIRCUIT (AU)	1	GD576M (HPE, TPE)
E1	F603L8G60YP	D.P.CIRCUIT (AU)	1	GD576M (YPQ)
E1	F603L8G60YT	D.P.CIRCUIT (AU)	1	GD576M (YTE)
E1	F603L8G60MP	D.P.CIRCUIT (AU)	1	GD576M (MPQ)
E1	F603L8G60KT	D.P.CIRCUIT (AU)	1	GD576W (KTE, PTE)
E1	F603L8G60KP	D.P.CIRCUIT (AU)	1	GD576W (KPQ)
E1	F603L8G60ST	D.P.CIRCUIT (AU)	1	GD576W (STM)
E2	F603Y8G60YT	D.P.CIRCUIT (DU)	1	GD576M, GD576W
E4	F630Y8G60SHP	MEMBRANE SWITCH (U)	1	GD576M
E4	F630Y8G60HKT	MEMBRANE SWITCH (U)	1	GD576W
E5	F80348J20SXP	ESCUTCHEON BASE	1	GD576M
E5	F80348J20HXP	ESCUTCHEON BASE	1	GD576W
E6	F80728G60SZP	DOOR OPENING BUTTON	1	GD576M
E6	F80725Q00HAP	DOOR OPENING BUTTON	1	GD576W
E7	F80375K00AP	COOK BUTTON SPRING	1	
E8	F82565Q00AP	DOOR OPENING LEVEL	1	
E9	F803G8H10SXP	POP-UP DIAL (U)	1	GD576M
E9	F803G8H20HXP	POP-UP DIAL (U)	1	GD576W
E10	F66167D00AP	FLAT CABLE	1	GD576M, GD576W
E11	F80187D00BAP	BACKSTOP	1	GD576M, GD576W
E12	F00078G60SHP	NAME PLATE	1	GD576M (HPE)
E12	F00078G60SYP	NAME PLATE	1	GD576M (YPQ)
E12	F00078G60SYT	NAME PLATE	1	GD576M (YTE)
E12	F00078G60SMP	NAME PLATE	1	GD576M (MPQ)
E12	F00078G60STP	NAME PLATE	1	GD576M (TPE)
E12	F00078G60HKT	NAME PLATE	1	GD576W (KTE)
E12	F00078G60HPT	NAME PLATE	1	GD576W (PTE)
E12	F00078G60HKP	NAME PLATE	1	GD576W (KPQ)
E12	F00078G60HST	NAME PLATE	1	GD576W (STM)

5.6.2. NN-GT546W, ST556M, ST556W



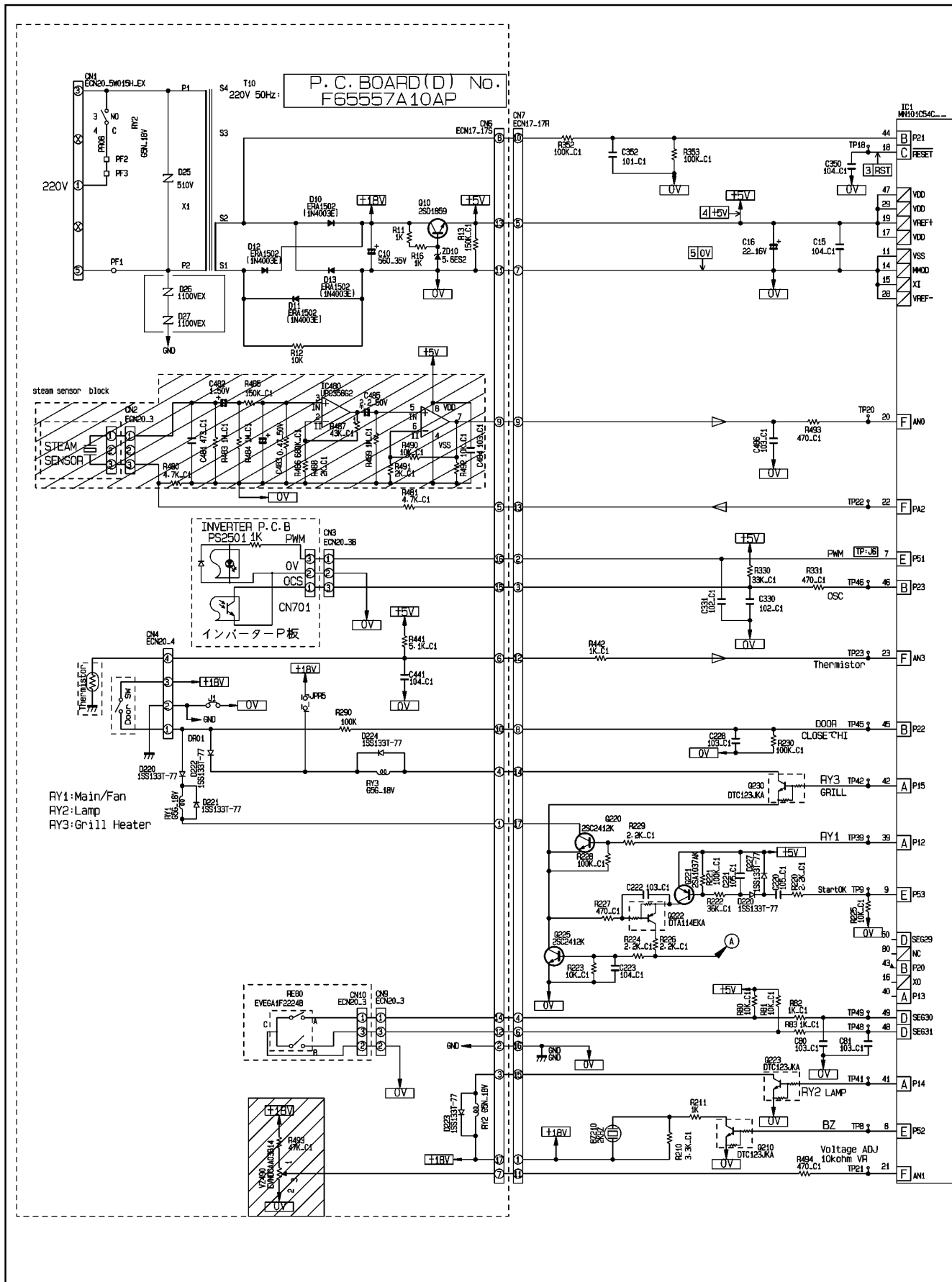
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
E41	F603L6W20HP	D.P.CIRCUIT (AU)	1	GT546W (HPE, TPE)
E41	F603L6W20MP	D.P.CIRCUIT (AU)	1	GT546W (MPQ)
E41	F603L6W20YT	D.P.CIRCUIT (AU)	1	GT546W (YTE)
E41	F603L6W20KT	D.P.CIRCUIT (AU)	1	GT546W (KTE, PTE)
E41	F603L8G90HP	D.P.CIRCUIT (AU)	1	ST556M (HPE), ST556W (TPE)
E41	F603L8G90YP	D.P.CIRCUIT (AU)	1	ST556M (MPQ, YPQ), ST556W (YPQ)
E41	F603L8G90YT	D.P.CIRCUIT (AU)	1	ST556W (YTE)
E44	F630Y8G70HHP	MEMBRANE SWITCH (U)	1	GT546W (HPE, YTE, MPQ, TPE)
E44	F630Y8G70HKT	MEMBRANE SWITCH (U)	1	GT546W (KTE, PTE)
E44	F630Y8G90HYP	MEMBRANE SWITCH (U)	1	ST556M (HPE, MPQ, YPQ)
E44	F630Y8G90HMP	MEMBRANE SWITCH (U)	1	ST556W (YTE, MPQ, TPE)
E45	F80345Q00HBP	ESCUTCHEON BASE	1	GT546W, ST556W
E45	F80348G90SHP	ESCUTCHEON BASE	1	ST556M
E46	F80725Q00HAP	DOOR OPENING BUTTON	1	GT546W, ST556W
E46	F80728G60SZP	DOOR OPENING BUTTON	1	ST556M
E47	F80375K00AP	COOK BUTTON SPRING	1	
E48	F82565Q00AP	DOOR OPENING LEVEL	1	
E50	F00078G70HHP	NAME PLATE	1	GT546W (HPE)
E50	F00078G70HMP	NAME PLATE	1	GT546W (MPQ)
E50	F00078G70HYT	NAME PLATE	1	GT546W (YTE)
E50	F00078G70HTP	NAME PLATE	1	GT546W (TPE)
E50	F00078G70HKT	NAME PLATE	1	GT546W (KTE)
E50	F00078G70HPT	NAME PLATE	1	GT546W (PTE)
E50	F00078G90SHP	NAME PLATE	1	ST556M (HPE)
E50	F00078G90SMP	NAME PLATE	1	ST556M (MPQ)
E50	F00078G90SYP	NAME PLATE	1	ST556M (YPQ)
E50	F00078G90HMP	NAME PLATE	1	ST556W (MPQ)
E50	F00078G90HYT	NAME PLATE	1	ST556W (YTE)
E50	F00078G90HTP	NAME PLATE	1	ST556W (TPE)

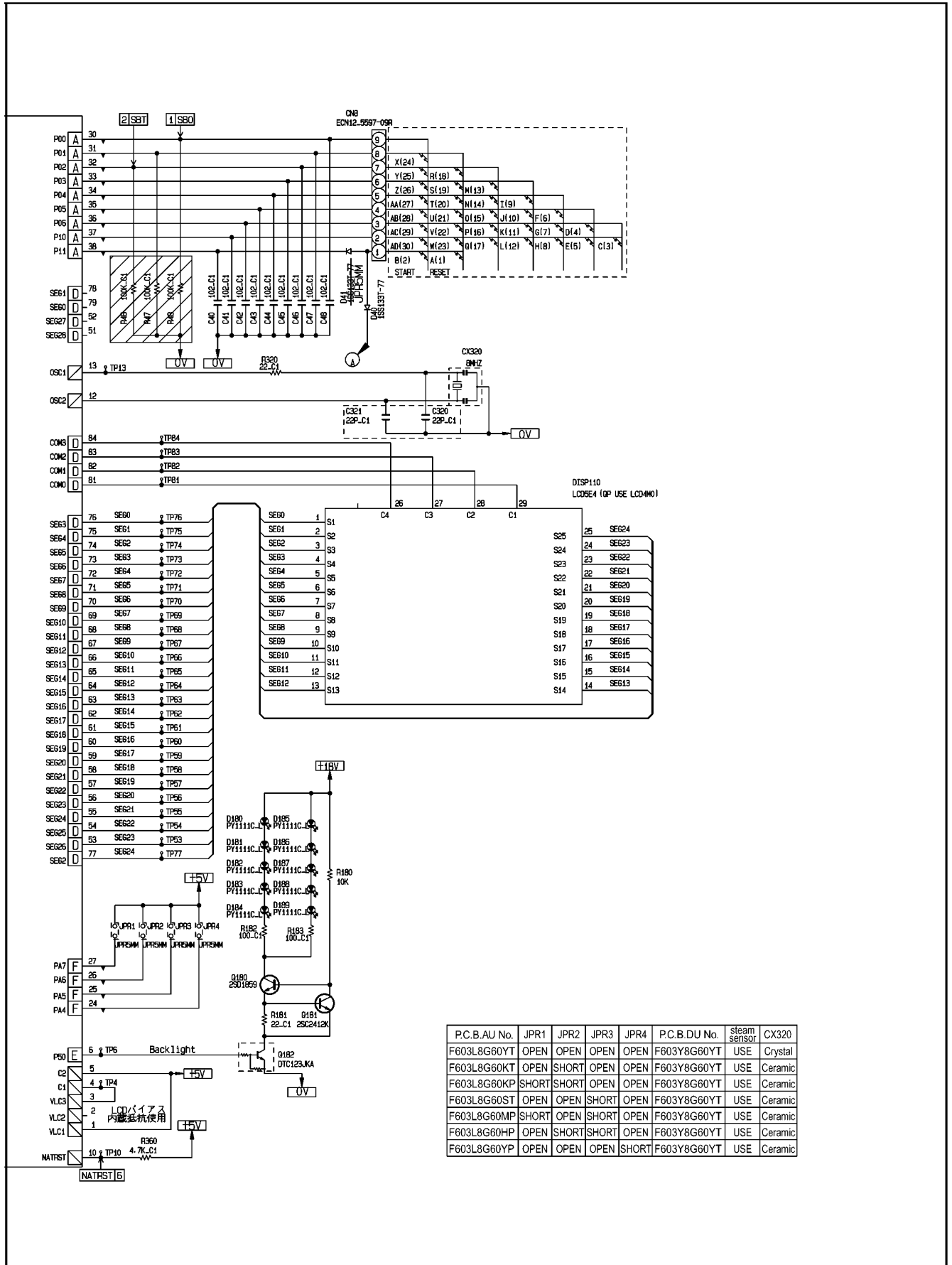
5.6.3. H.V. INVERTER BOARD MAIN PARTS LIST (F606Y4V00XN)

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
Q701	A691E4V10GP	TRANSISTOR SI	1	
Q702		TRANSISTOR SI	1	
DB701	AESTRS2006M	DIODE SI	1	20A, 600V
D701, D702	A62024V00GP	DIODE SI	2	0.3A
C704, C705	ECWH30822JUA	CAPACITOR	2	8200PF 3000VDC
T701	F609A4V00XN	H.V. TRANSFORMER	1	
	F607D4V00XN	D.P.CIRCUIT (KU)	1	
L701	F50204V00XN	CHOKE COIL	1	
CT701	F66904V00XN	CURRENT TRANSFORMER	1	

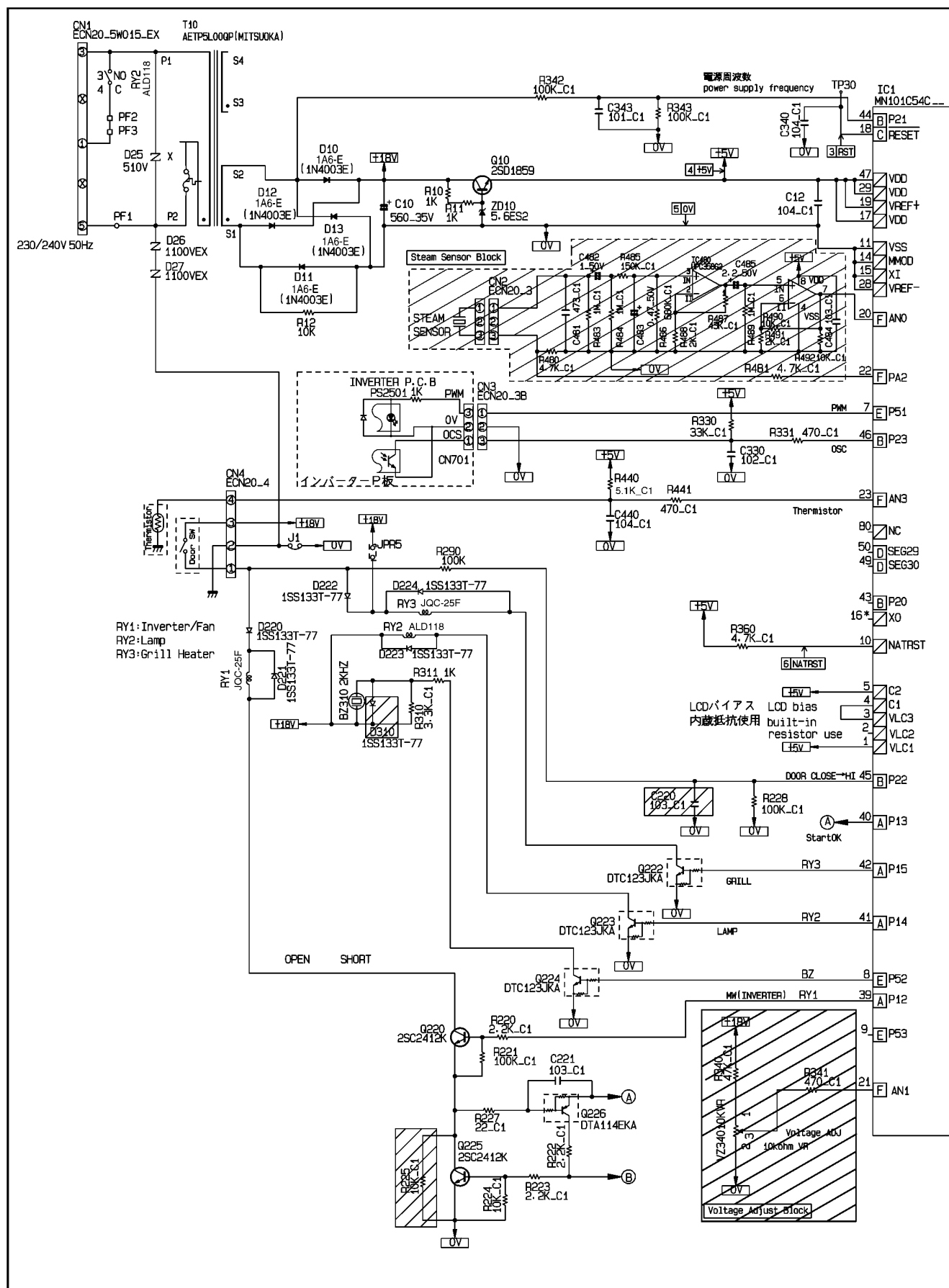
6 DIGITAL PROGRAMMER CIRCUIT

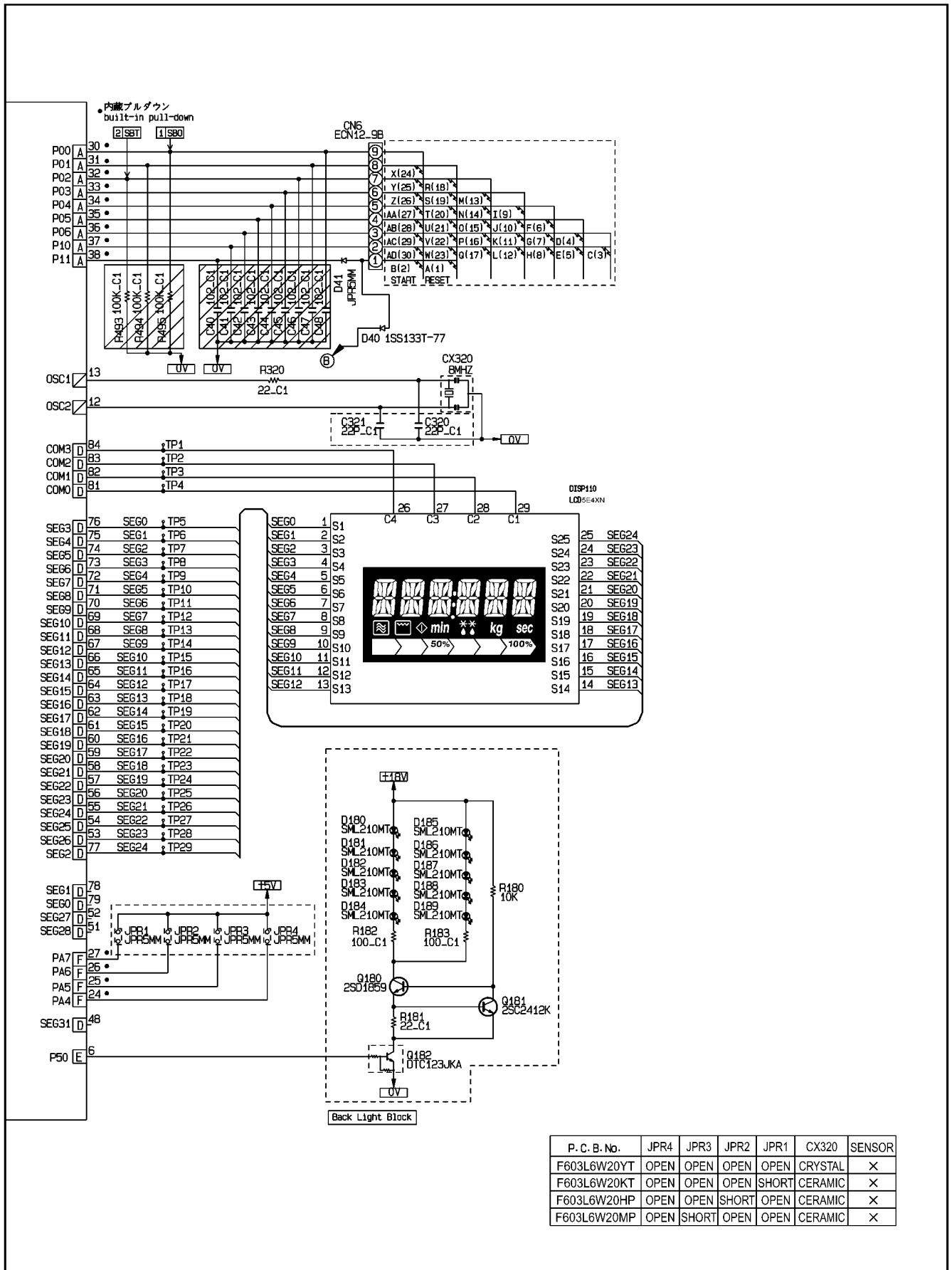
6.1. NN-GD576M/GD576W



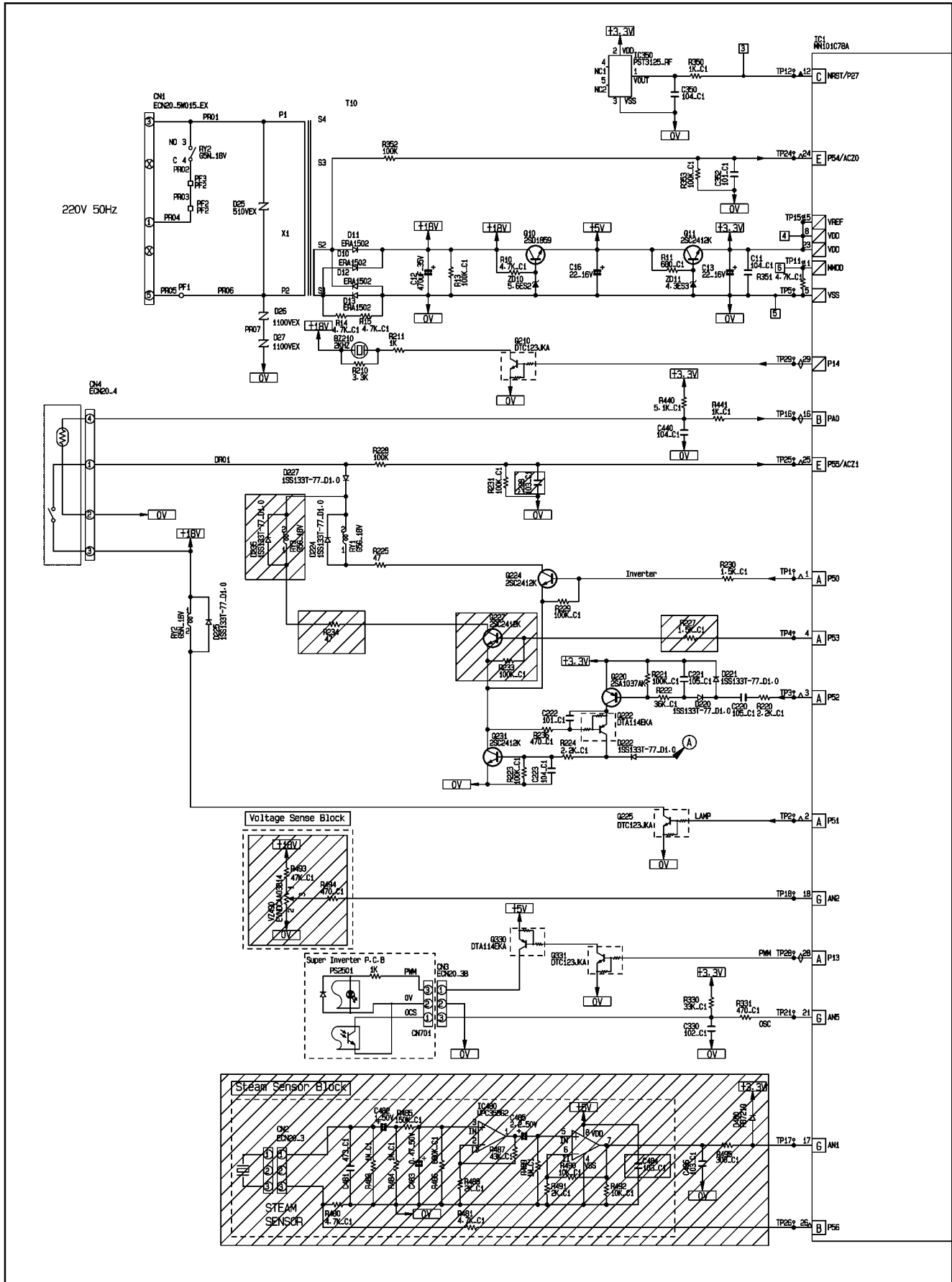


6.2. NN-GT546W





6.3. NN-ST556M/ST556W



6.4. PARTS LIST

6.4.1. NN-GD576M, GD576W

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ210	L0DDEA000014	BUZZER	1	2.0KHz
C320,C321	F1H1H12200008	CHIP CAPACITOR	2	22PF/50V (YTE)
C352	F1H1H1010005	CHIP CAPACITOR	1	100PF/50V
C40-C48,C330,C331	F1H1H102A219	CHIP CAPACITOR	11	1000PF/50V
C80,C81,C222,C228,C484,C486	F1H1H103A220	CHIP CAPACITOR	6	0.01μF/50V
C481	F1H1H473A220	CHIP CAPACITOR	1	0.047μF/50V
C15,C223,C350,C441	F1H1E104A030	CHIP CAPACITOR	4	0.1μF/25V
C220,C221	F1H1A105A019	CHIP CAPACITOR	2	1μF/50V
C10	AECETK1V561B	AL CHEM CAPACITOR	1	560μF/35V
C16	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
CN1	K1KA03AA0115	CONNECTOR	1	
CN2	K1KA03AA0299	CONNECTOR	1	3 Pin
CN3	F03524U50AP	INV. HARNESS (U)	1	
CN4	K1KA04AA0086	CONNECTOR	1	4 Pin
CN6	K1MN17A00001	CONNECTOR	1	17Pin
CN7	K1MN17B00053	CONNECTOR	1	17Pin
CN8	K1MN09BA0072	CONNECTOR	1	
CN9	F03547B40AP	CONNECTOR	1	3 Pin
CX320	EF0EC8004A4	CERAMIC RESONATOR	1	8.00MHz
IC1	MN101C54CHM	L.S.I.	1	
IC480	C0ABBA000230	IC	1	
DISP110	L5AAAFD00026	LCD	1	
DISPL1	F66175E40XN	LCD HOLDER	1	
	F67525E40XN	DIFFUSION SHEET	1	
Q181,Q220,Q225	2SD0601A0L	CHIP TRANSISTOR	3	
Q221	2SB709A0L	CHIP TRANSISTOR	1	
Q222	UNR211100L	CHIP DIGI-TRANSISTOR	1	
Q182,Q210,Q223,Q230	UNR221M00L	CHIP DIGI-TRANSISTOR	4	
Q10,Q180	B1BAAJ000003	TRANSISTOR	2	
D180-D189	B3ACB0000065	CHIP-LED	10	
D40,D220-D224,D227	MA2C19600E	DIODE	7	
D10,D11,D12,D13	B0EAKT000025	DIODE	4	
D25	D4EAY511A036	VARISTOR	1	510V
D26,D27	D4EAY112A036	VARISTOR	2	1100V
R182,R183	D0GB101JA069	CHIP RESISTOR	2	100Ω,1/10W,5%
R483,R484,R489	D0GB105JA071	CHIP RESISTOR	3	1MΩ,1/10W,5%
R82,R83,R442	D0GB102JA071	CHIP RESISTOR	3	1KΩ,1/10W,5%
R80,R81,R223,R225,R490,R492	D0GB103JA072	CHIP RESISTOR	6	10KΩ,1/10W,5%
R485	D0GB154JA068	CHIP RESISTOR	1	150K,1/10W,5%
R488,R491	D0GB202JA071	CHIP RESISTOR	2	2KΩ,1/10W,5%
R13,R221,R228,R230,R352.R353	D0GB104JA068	CHIP RESISTOR	6	100KΩ,1/10W,5%
R181,R320	D0GB220JA072	CHIP RESISTOR	2	22Ω,1/10W,5%
R220,R224,R226,R229	D0GB222JA072	CHIP RESISTOR	4	2.2KΩ,1/10W,5%
R210	D0GB332JA072	CHIP RESISTOR	1	3.3KΩ,1/10W,5%
R441	D0GB512JA072	CHIP RESISTOR	1	5.1KΩ,1/10W,5%
R486	D0GB684JA068	CHIP RESISTOR	1	680KΩ,1/10W,5%
R330	D0GB333JA070	CHIP RESISTOR	1	33KΩ,1/10W,5%
R222	D0GB363JA072	CHIP RESISTOR	1	36K,1/10W,5%
R227,R331,R493	D0GB471JA069	CHIP RESISTOR	3	470Ω,1/10W,5%
R360,R480,R481	D0GB472JA072	CHIP RESISTOR	3	4.7KΩ,1/10W,5%
R487	D0GB433JA072	CHIP RESISTOR	1	43KΩ,1/10W,5%
R11,R16,R211	D0AE102JA155	CARBON FILM RESISTOR	3	1KΩ,1/4W,5%
R12,R180	D0AE103JA155	CARBON FILM RESISTOR	2	10KΩ,1/4W,5%
R290	D0AE104JA155	CARBON FILM RESISTOR	1	100KΩ,1/4W,5%
ZD10	B0BA5R600016	ZENER DIODE	1	
RY1	AEBGJQC25F18	POWER RELAY	1	
RY2	K6B1AZA00011	POWER RELAY	1	
T10	G4C3AAH00008	LOW VOLTAGE TRANSFORMER	1	
RE80	EVEJ1HF2224B	REVOLVING ENCODER	1	

6.4.2. NN-GT546W

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310	L0DDEA000014	BUZZER	1	2.0KHz
C221	F1H1H103A220	CHIP CAPACITOR	1	0.01μF/50V
C12,C340,C441	F1H1E104A030	CHIP CAPACITOR	3	0.1μF/25V
C320,C321	F1H1H2200008	CHIP CAPACITOR	2	22PF/50V (YTE)
C330	F1H1H102A219	CHIP CAPACITOR	1	1000PF/50V
C343	F1H1H1010005	CHIP CAPACITOR	1	100PF/50V
C10	AECETK1V561B	AL CHEM CAPACITOR	1	560μF/35V
CN1	K1KA03AA0115	CONNECTOR	1	
CN3	F03524U50AP	INV. HARNESS (U)	1	
CN4	K1KA04AA0086	CONNECTOR	1	4 Pin
CN6	K1MN09AA0040	CONNECTOR	1	
CX320	EF0EC8004A4	CERAMIC RESONATOR	1	8.00MHz
DISP110	L5AAAFD00026	LCD	1	
DISP1 HOLDER	F66175E40XN	LCD HOLDER	1	
	F67525E40XN	DIFFUSION SHEET	1	
D10-D13	B0EAKT000025	DIODE	4	
D40,D220-D225	MA2C19600E	DIODE	7	
D25	D4EAY511A036	VARISTOR	1	510V
D26,D27	D4EAY112A036	VARISTOR	2	1100V
D180-D189	B3ACB0000065	CHIP-LED	10	
IC1	MN101C54CFJ	L.S.I.	1	
Q226	UNR211100L	CHIP DIGI-TRANSISTOR	1	
Q182,Q222,Q223,Q224	UNR221M00L	CHIP TRANSISTOR	4	
Q10,Q180	B1BAAJ000003	TRANSISTOR	2	
Q181,Q220,Q225	2SD0601A0L	CHIP TRANSISTOR	3	
R181,R227,R320	D0GB220JA072	CHIP RESISTOR	3	22Ω,1/10W,5%
R182,R183	D0GB101JA069	CHIP RESISTOR	2	100Ω,1/10W,5%
R331,R442	D0GB471JA069	CHIP RESISTOR	2	470Ω,1/10W,5%
R220,R222,R223	D0GB222JA072	CHIP RESISTOR	3	2.2K,1/10W,5%
R310	D0GB332JA072	CHIP RESISTOR	1	3.3K,1/10W,5%
R360	D0GB472JA072	CHIP RESISTOR	1	4.7K,1/10W,5%
R441	D0GB512JA072	CHIP RESISTOR	1	5.1K,1/10W,5%
R224	D0GB103JA072	CHIP RESISTOR	1	10K,1/10W,5%
R330	D0GB333JA070	CHIP RESISTOR	1	33K,1/10W,5%
R221,R228	D0GB104JA068	CHIP RESISTOR	2	100K,1/10W,5%
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	

6.4.3. NN-ST556M, ST556W

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ210	L0DDEA000014	BUZZER	1	2.0KHz
C222	F1H1H103A220	CHIP CAPACITOR	1	0.01μF/50V
C11,C223,C350,C440	F1H1E104A030	CHIP CAPACITOR	4	0.1μF/25V
C220,C221	F1H1A105A019	CHIP CAPACITOR	2	1μF/10V
C320,C321	F1H1H1800004	CHIP CAPACITOR	2	18PF/50V (YTE)
C12	AECETK1V561B	AL CHEM CAPACITOR	1	560μF/35V
C13,C16	AECETS1C220B	AL CHEM CAPACITOR	2	22μF/16V
C352	F1H1H1010005	CHIP CAPACITOR	1	100PF/50V
C330	F1H1H102A219	CHIP CAPACITOR	1	1000PF/50V
CN1	K1KA03AA0115	CONNECTOR	1	
CN3	F03524U50AP	INV. HARNESS (U)	1	
CN4	K1KA04AA0086	CONNECTOR	1	4 Pin
CN8	K1MN09AA0040	CONNECTOR	1	9 Pin
CX320	EF0EC8004A4	CERAMIC RESONATOR	1	8.00MHz
DISP110	L5AAAE000057	LCD	1	
DISP1 HOLDER	F66174U20AP	LCD HOLDER	1	
D10-D13	B0EAKT000025	DIODE	4	
D220-D222,D224,D225,D227	MA2C19600E	DIODE	6	
D25	D4EAY511A036	VARISTOR	1	510V
D26,D27	D4EAY112A036	VARISTOR	2	1100V
D180-D183	B3ACB0000065	CHIP-LED	4	
IC1	MN101C78ADS	L.S.I.	1	
Q222,Q330	UNR211100L	CHIP DIGI-TRANSISTOR	2	
Q182,Q210,Q225,Q331	UNR221M00L	CHIP DIGI-TRANSISTOR	4	
Q10,Q180	B1BAAJ000003	TRANSISTOR	2	
Q11,Q181,Q224,Q231	2SD0601A0L	CHIP TRANSISTOR	4	
Q220	2SB709A0L	CHIP TRANSISTOR	1	
R320	D0GBR00JA071	CHIP RESISTOR	1	0Ω,1/10W,5%
R13,R221,R223,R229,R231,R353	D0GB104JA068	CHIP RESISTOR	6	100K,1/10W,5%
R182	D0GB360JA072	CHIP RESISTOR	1	36Ω,1/10W,5%
R11	D0GB681JA069	CHIP RESISTOR	1	680Ω,1/10W,5%
R224,R350,R441	D0GB102JA071	CHIP RESISTOR	3	1K,1/10W,5%
R230	D0GB152JA072	CHIP RESISTOR	1	1.5K,1/10W,5%
R220	D0GB222JA072	CHIP RESISTOR	1	2.2K,1/10W,5%
R210	D0GB332JA072	CHIP RESISTOR	1	3.3K,1/10W,5%
R180,R330	D0GB333JA070	CHIP RESISTOR	2	33K,1/10W,5%
R222	D0GB363JA072	CHIP RESISTOR	1	36K,1/10W,5%
R236,R331	D0GB471JA069	CHIP RESISTOR	2	470Ω,1/10W,5%
R10,R14,R15,5351	D0GB472JA072	CHIP RESISTOR	4	4.7K,1/10W,5%
R440	D0GB512JA072	CHIP RESISTOR	1	5.1K,1/10W,5%
R225	D0AE470JA155	CHIP RESISTOR	1	47Ω,1/4W,5%
R211	D0AE102JA155	CARBON RESISTOR	1	1K,1/4W,5%
R228,R352	D0AE104JA155	CARBON RESISTOR	2	100K,1/4W,5%
RY1	AEBGJC25F18	POWER RELAY	1	
RY2	K6B1AZA00011	POWER RELAY	1	
T10	G4C3AAH00008	LOW VOLTAGE TRANSFORMER	1	
ZD10	B0BA5R600016	ZENER DIODE	1	
ZD11	B0BA4R400002	ZENER DIODE	1	