

Service Manual

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ORDER NO.SIMMC0408028A3

Service Manual

Microwave Oven



- NN-S674MF
- NN-S654WF
- NN-S654MF

◦

HPE(Hong Kong)

YPQ(Singapore)

MPQ(Malaysia)

TPE(Thailand, Indonesia)

YTE(Others)

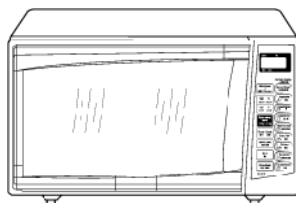
KTE(UAE)

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-S650WF (ORDER NO. SIMMC0007014C3).



Specification

Model	NN-S674MF	NN-S654WF/MF
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:	1050W _ _ _ _ _ For KTE, HPE, YTE, PTE, STM Models 1120W _ _ _ _ _ For KPQ, MPQ, YPQ Models	
Output:	1100W	1100W
Microwave Frequency:	2450MHz	
Timer:	99min.99sec	
Outside Dimensions:	518mm(W) x 404mm(D) x 301mm(H)	
Oven Cavity Dimensions:	375mm(W) x 386mm(D) x 225mm(H)	
Weight:	12.0kg	
PbF	This product with PbF	
Specifications subject to change without notice.		


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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 manufacturer'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 identifications shown below for your applicable product specification.

HFE For Hongkong
 YPQ For Singapore
 MPQ For Malaysia
 ITH For Thailand, Indonesia
 YTE For Others
 KTE For UAE
 PTE For Iran
 KPQ For Kuwait, Doha, Qatar
 Oran, Bahrain, Pakistan
 STM For Saudi Arabia

CAUTION

About lead free solder (PbF)

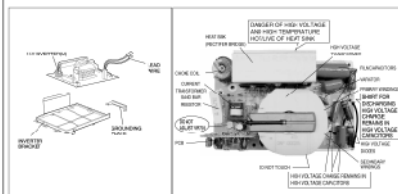
Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

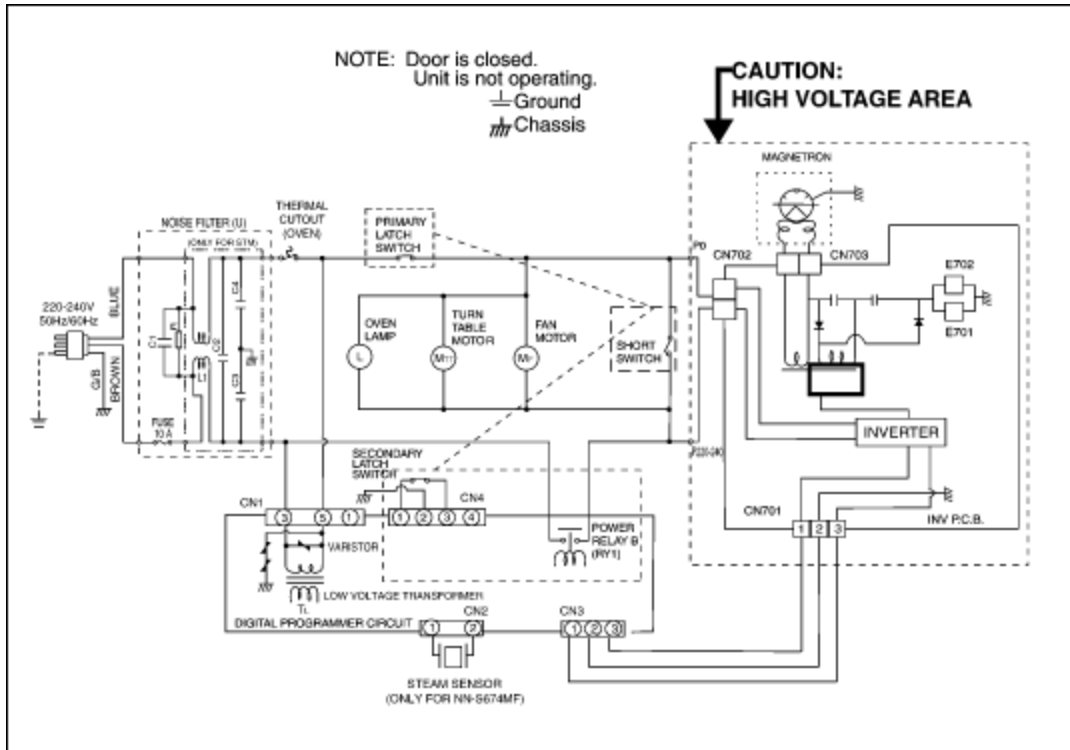
Caution: ● Pb free solder has a higher melting point than standard solder; Typically the melting point is 30 ~ 40°C higher.

Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 370 ± 10°C.

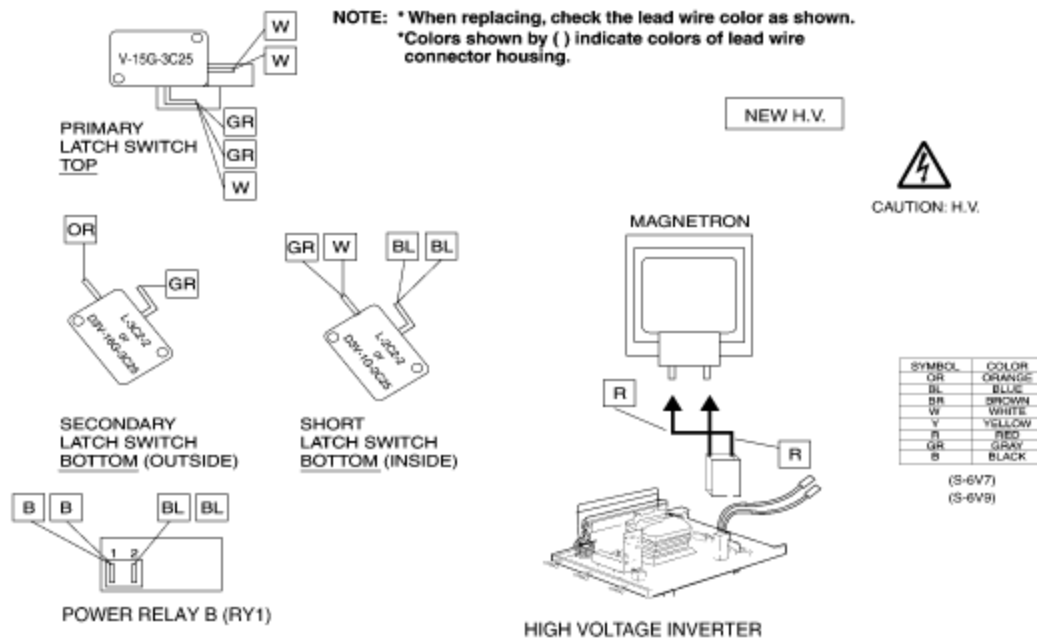
- Pb free solder will tend to splash when heated too high (about 600°C).

Panasonic®





WIRING DIAGRAM



2 CAUTIONS TO BE OBSERVED WHEN TROUBLESHOOTING

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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](#)

[2.2 Inverter warnings](#)

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[2.4 When the 10A fuse is blown due to the operation of the short switch:](#)

[2.5 Avoid inserting nails, wire etc. through any holes in the unit during operation.](#)

[2.6 Confirm after repair](#)

[2.7 Sharp edges](#)

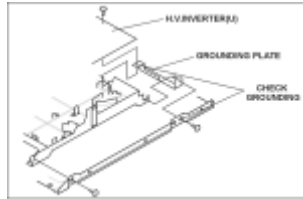
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2.1 Check the grounding

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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.

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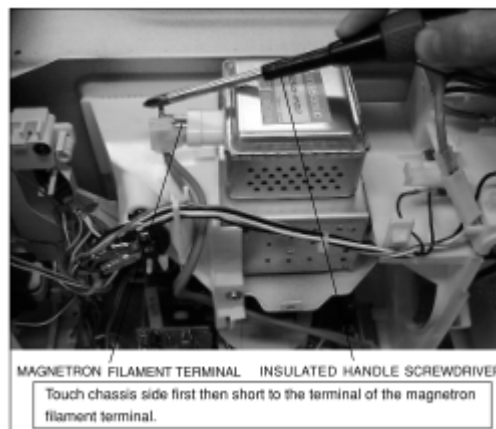


Grounding of the inverter circuit board

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

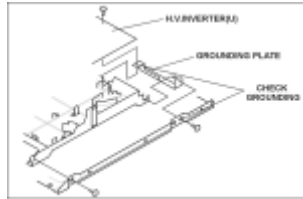
WARNING

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. DONOT 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.

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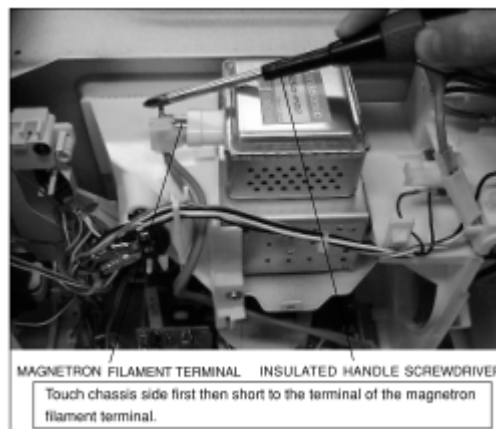


Grounding of the inverter circuit board

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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. DONOT 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.

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2.3 Part replacement.

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

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

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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, door 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.

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

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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.

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2.6 Confirm after repair

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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.

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2.7 Sharp edges

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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.

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

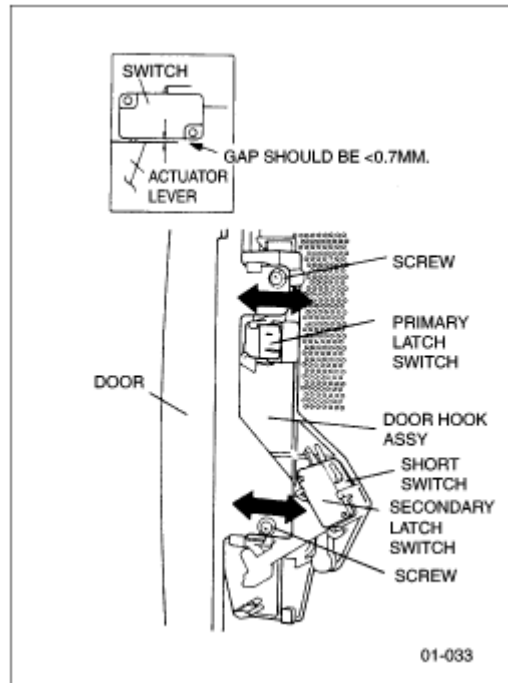
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1. Mount the Primary latch switch, the secondary latch switch and the short switch to the door hook assembly as shown in ILL.

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.



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3.2 Measurement of microwave output

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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:

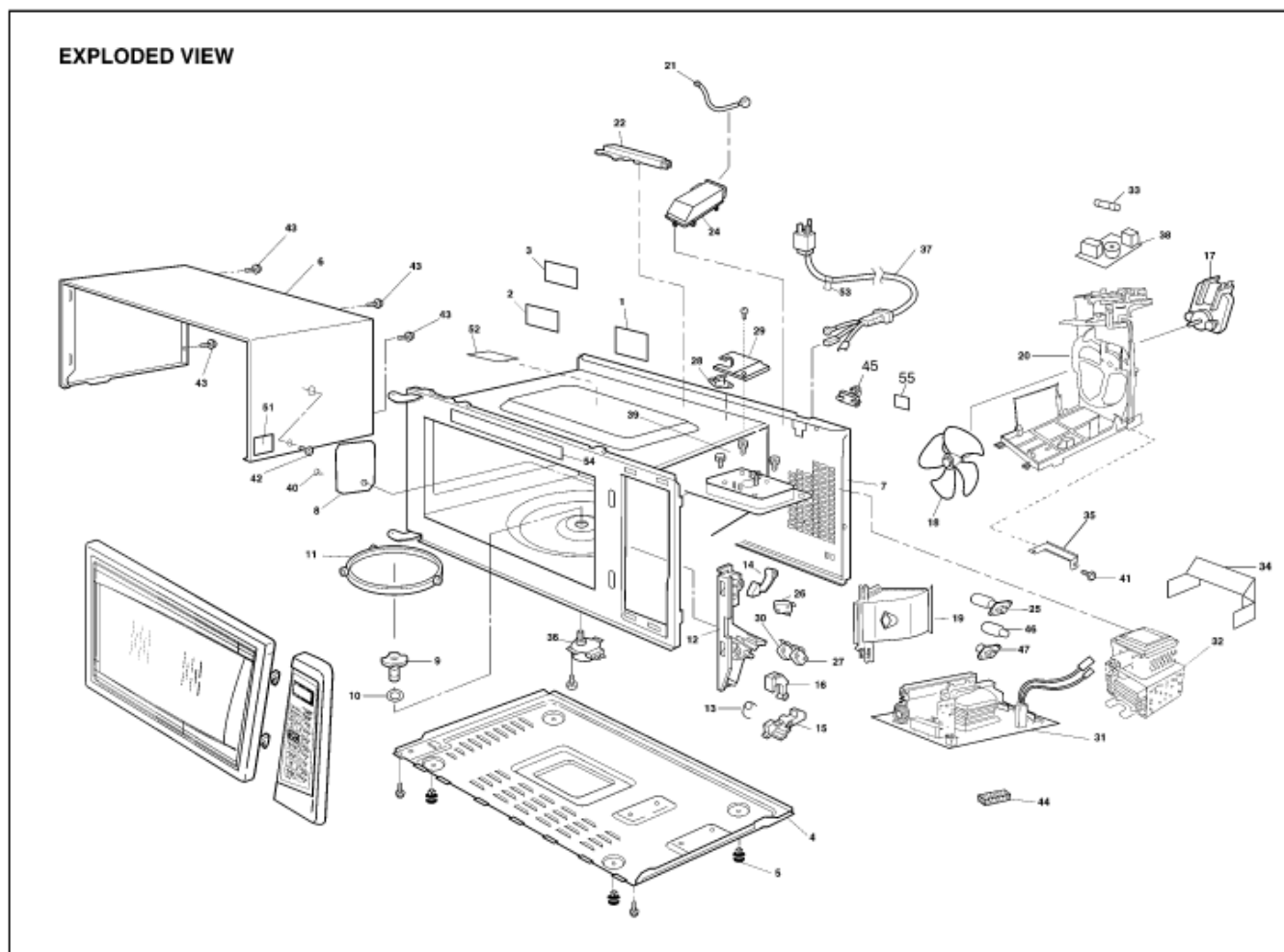
Check the line voltage under load. Low voltage will lower the magnetron output. Take the temperature readings and heating time as accurately as possible.

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
1100W	Min. 9.4°C

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4.2 PARTS LIST

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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  mark have special characteristics important for safety.

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

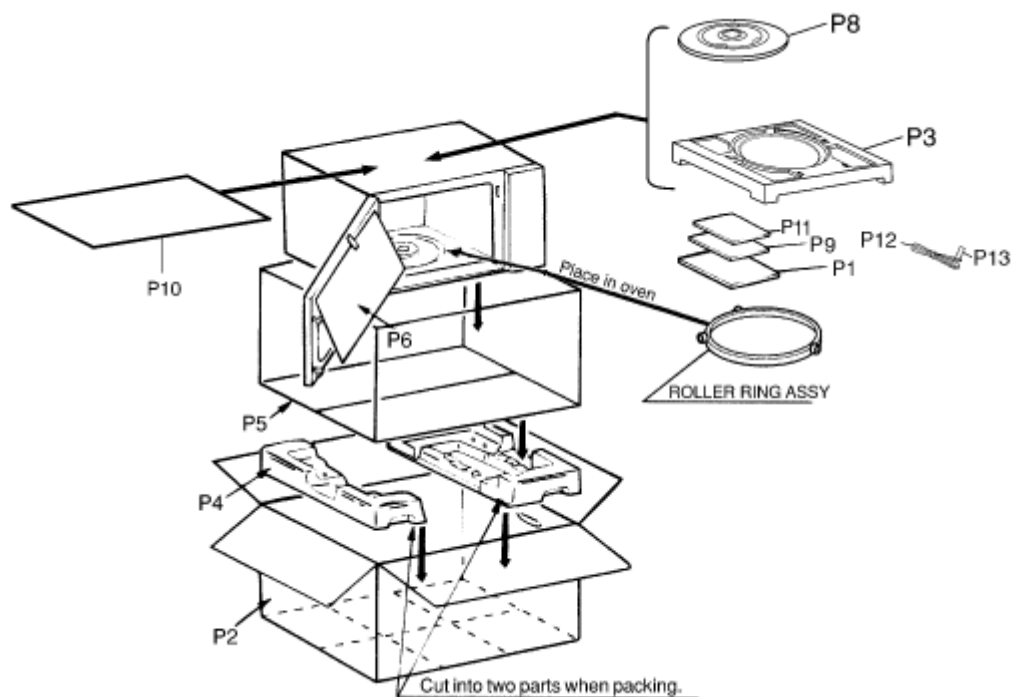
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
<u>1</u>		F00066V00HP	CAUTION LABEL	1	
<u>2</u>		F00076V70SYT	NAME PLATE	1	S674MF YTE
2		F00076V70SMP	NAME PLATE	1	S674MF MPQ
2		F00076V70SYP	NAME PLATE	1	S674MF YPQ
2		F00076V70STP	NAME PLATE	1	S674MF TPE
2		F00076V70SKT	NAME PLATE	1	S674MF KTE
2		F00076V70SKP	NAME PLATE	1	S674MF KPQ
2		F00076V70SST	NAME PLATE	1	S674MF STM
2		F00076V70SPT	NAME PLATE	1	S674MF PTE
2		F00076V90HYT	NAME PLATE	1	S654WF YTE
2		F00076V90HMP	NAME PLATE	1	S654WF MPQ
2		F00076V90HKT	NAME PLATE	1	S654WF KTE
2		F00076V90HKP	NAME PLATE	1	S654WF KPQ
2		F00076V90HST	NAME PLATE	1	S654WF STM
2		F00076V90SST	NAME PLATE	1	S654MF STM
2		F00076V90HPT	NAME PLATE	1	S654WF PTE
<u>3</u>		F00066W10MP	CAUTION LABEL	1	YPQ
<u>4</u>		F10014T00AP	BASE	1	
<u>5</u>		F10084T00AP	RUBBER FOOT	4	

<u>6</u>		F110D5L70SAP	CABINET BODY (U)	1	S674MF,S654MF
6		F110D5Y30HCP	CABINET BODY (U)	1	S654WF
<u>7</u>		F200A5Y30AP	OVEN (U)	1	S674MF
7		F200A5Y40AP	OVEN (U)	1	S654WF/MF
<u>8</u>		F20555L00AP	COVER	1	
<u>9</u>		F21315Y00AP	PULLY SHAFT	1	
<u>10</u>		F2177-F80	WASHER	1	
<u>11</u>		F290D9330AP	ROLLER RING (U)	1	
<u>12</u>		F30208790XN	DOOR HOOK	1	
<u>13</u>		F3097-5L00	LATCH SPRING	1	
<u>14</u>		F31368790XN	HOOK LEVER A	1	
<u>15</u>		F31378790XN	HOOK LEVER B	1	
<u>16</u>		F31388790XN	HOOK LEVER C	1	
<u>17</u>		F400A6V00QP	FAN MOTOR	1	EXCEPT STM
17		F400A4T10SN	FAN MOTOR	1	STM
<u>18</u>		F40084T00AP	FAN BLADE	1	
<u>19</u>		F40254T00AP	AIR GUIDE A	1	
<u>20</u>		F41444T00AP	ORIFICE	1	
<u>21</u>		A607S4T00AP	STEAM SENSOR	1	S674MF
<u>22</u>		F64508660AP	SENSOR COVER B	1	S674MF
<u>24</u>		F65434T00AP	SENSOR COVER C	1	S674MF
<u>25</u>		F612E4Y00XN	INCANDESCENT LAMP (U)	1	EXCEPT HPE
<u>26</u>		J61424T00AP	MICRO SWITCH	1	(PRIMARY LATCH SWITCH)(V-15G-3C25)
<u>27</u>		J61414T00AP	MICRO SWITCH	1	(SECONDARY LATCH SWITCH)(D3V-16G-3C25)
<u>28</u>		F61455L00CP	THERMAL CUTOUT	1	105°C
<u>29</u>		F66264T00CP	THERMAL CUTOUT INSULATION BRACKET	1	
<u>30</u>		J61784T00AP	MICRO SWITCH	1	(SHORT SWITCH)(D3V-1G-2C25)

<u>31</u>		F606Y4V00XN	H.V.INVERTER (U)	1	
<u>32</u>		2M261-M32F	MAGNETRON	1	EXCEPT STM
32		2M261-M32J	MAGNETRON	1	STM
<u>33</u>		A62304210BP	FUSE	1	10A/240V,50Hz
<u>34</u>		F40264T60AP	AIR GUIDE B	1	
<u>35</u>		F61844T00AP	GROUNDING PLATE	1	
<u>36</u>		F63265U30XN	TURNTABLE MOTOR	1	
<u>37</u>		F900C8790YK	AC CORD W/PLUG	1	EXCEPT STM,PTE & TPE
37		F900C5E90SN	AC CORD W/PLUG	1	STM
37		F900C9620TN	AC CORD W/PLUG	1	PTE,TPE
<u>38</u>		J692Y4T00YNR	NOISE FILTER (U)	1	EXCEPT STM
38		J692Y4T00QPR	NOISE FILTER (U)	1	STM
<u>39</u>		XTWFA4+12T	SCREW	4	FOR MAGNETRON
<u>40</u>		XTTFA4+6BN	SCREW	1	FOR COVER
<u>41</u>		XYDFA4+EE12F	SCREW	1	FOR GROUNDING
<u>42</u>		XTCAFA4+12AFS	SCREW	1	FOR CABINET BODY SIDE (S674MF,S654MF)
42		XTCAFA4+12AFW	SCREW	1	FOR CABINET BODY SIDE (S654WF)
<u>43</u>		XTWFA4+12D	SCREW	4	FOR CABINET BODY
<u>44</u>		F0926100BB	CUSHION RUBBER	1	FOR INVERTER HEAT SINK
<u>45</u>		F11407000AP	STOPPER	1	
<u>46</u>		F60305G60HN	INCANDESCENT LAMP	1	HPE
<u>47</u>		F61525T80HN	SOCKET	1	HPE
<u>51</u>		F02846V70YP	NO. LABEL	1	YPQ
<u>52</u>		F21555500AP	OVEN STICKY PAPER	1	
<u>53</u>		F02395E20KN	CORD CAUTION LABEL	1	KTE,KPQ,STM,PTE
<u>54</u>		F03346V70HP	MENU LABEL	1	S674MF (HPE,YTE,MPQ,YPQ,TPE)

54	F03346V70KT	MENU LABEL	1	S674MF (KTE,KPQ,STM,PTE)
<u>55</u>	F0005-4S10	EARTH LABEL	1	TPE

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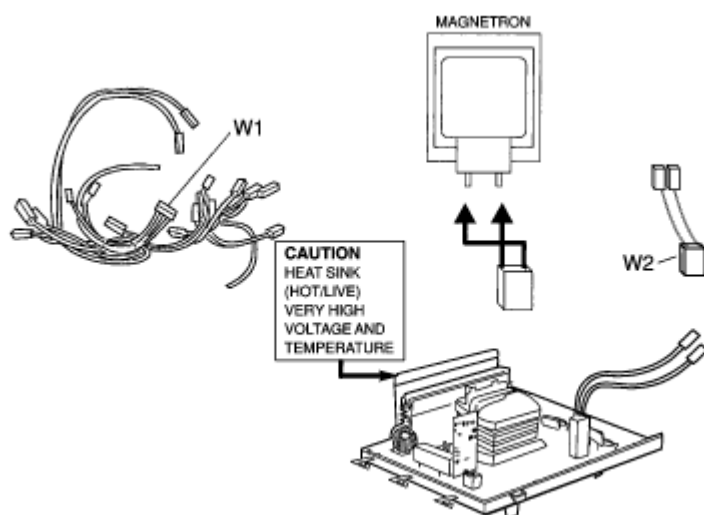
4.3 PACKING AND ACCESSORIES

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
P1	F00036V70HP	INSTRUCTION MANUAL	1	HPE,YTE,MPQ,YPQ,TPE
P1	F00036V70KP	INSTRUCTION MANUAL	1	S674MF (KTE,KPQ,STM,PTE)
P1	F00036V90KP	INSTRUCTION MANUAL	1	S654WF (KTE,KPQ,STM,PTE),S654MF (STM)
P2	F01026V70SHP	PACKING CASE,PAPER	1	S674MF (HPE,YTE,MPQ,YPQ,TPE)
P2	F01026V70SKT	PACKING CASE,PAPER	1	S674MF (KTE,PTE)
P2	F01026V70SKP	PACKING CASE,PAPER	1	S674MF (KPQ,STM)
P2	F01026V90HHP	PACKING CASE,PAPER	1	S654WF (HPE,MPQ,YTE)
P2	F01026V90HKT	PACKING CASE,PAPER	1	S654WF (KTE,PTE)
P2	F01026V90HKP	PACKING CASE,PAPER	1	S654WF (KPQ,STM)
P2	F01026V90SST	PACKING CASE,PAPER	1	S654MF (STM)
P3	F01046K50AP	UPPER FILLER	1	
P4	F01055L00AP	LOWER FILLER	1	
P5	F01068100XN	P.E.BAG	1	
P6	F01078100XN	DOOR SHEET	1	
P8	F06014T00AP	COOKING TRAY	1	
P9	F000B6V70MP	COOKING GUIDE	1	HPE,YTE,MPQ,YPQ,TPE
P9	F000B6V90KP	COOKING GUIDE	1	KTE,KPQ,STM,PTE
P10	F01924T00AP	SHEET	1	S674MF
P11	F04456V70SMP	OVERLAY	1	S674MF (MPQ,YPQ)
P11	F04456V70STP	OVERLAY	1	S674MF (TPE)
P11	F04456V70SKT	OVERLAY	1	S674MF (KTE,KPQ,STM,PTE)
P11	F04456V90HMP	OVERLAY	1	S654WF (MPQ)
P11	F04456V90HKT	OVERLAY	1	S654WF (KTE,KPQ,STM,PTE),S654MF (STM)
P12	F91644000XN	EARTH LEAD	1	TPE
P13	F00324040XN	EARTH CAUTION LABEL	1	TPE

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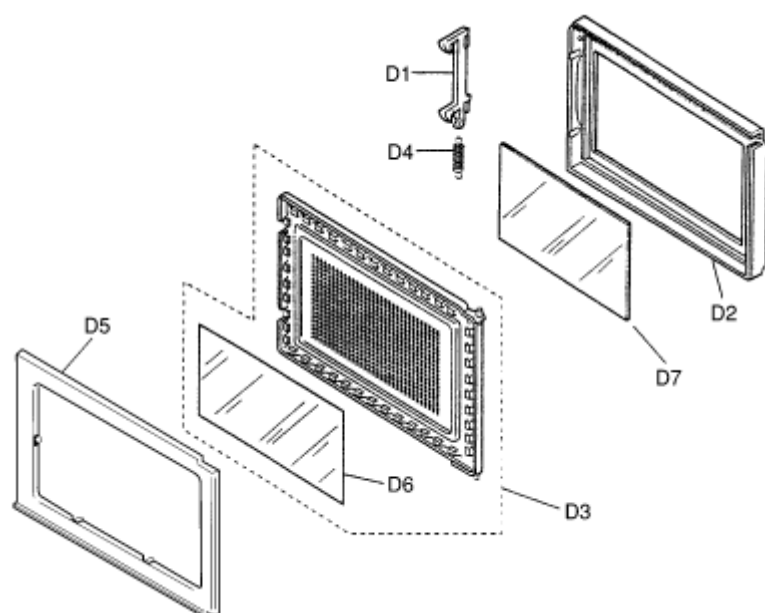
4.4 WIRING MATERIALS

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
W1	F030A6V70HP	LEAD WIRE HARNESS	1	EXCEPT STM
W1	F030A5Y00QP	LEAD WIRE HARNESS	1	STM
W2	F030E5L00AP	H.V.LEAD WIRE	1	EXCEPT STM
W2	F030E6V60QP	H.V.LEAD WIRE	1	STM

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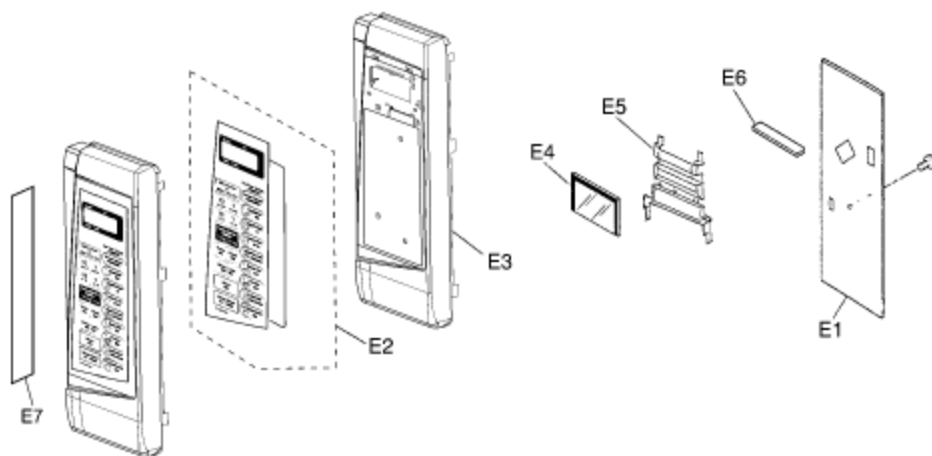
4.5 DOOR ASSEMBLY

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Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
D1		F30184Y30XN	DOOR KEY A	1	
D2		F30016V70SHP	DOOR A	1	S674MF,S654MF
D2		F30016K50HWT	DOOR A	1	S654WF
D3		F302K5L00AP	DOOR E (U)	1	
D4		F30215G10XN	DOOR KEY SPRING	1	
D5		F30854T00AP	DOOR C	1	
D6		F31456V60XP	DOOR SCREEN A	1	
D7		F31466K50BAP	DOOR SCREEN B	1	

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4.6 ESCUTCHEON BASE ASSEMBLY

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
E1	F603L6V70HP	D.P.CIRCUIT	1	S674MF (HPE,TPE,KTE,STM,PTE)
E1	F603L6V70YT	D.P.CIRCUIT	1	S674MF (YTE)
E1	F603L6V70YP	D.P.CIRCUIT	1	S674MF (MPQ,YPQ,KPQ)
E1	F603L6V90HP	D.P.CIRCUIT	1	S654WF (HPE)
E1	F603L6V90YT	D.P.CIRCUIT	1	S654WF (YTE)
E1	F603L6V90MP	D.P.CIRCUIT	1	S654WF (MPQ)
E1	F603L6V90KT	D.P.CIRCUIT	1	S654WF (KTE,PTE)
E1	F603L6V90KP	D.P.CIRCUIT	1	S654WF (KPQ)
E1	F603L6V90ST	D.P.CIRCUIT	1	S654WF/MF (STM)
E2	F630Y6V70SHP	MEMBRANE SWITCH (U)	1	S674MF
E2	F630Y6V90HHP	MEMBRANE SWITCH (U)	1	S654WF (HPE,YTE,MPQ)
E2	F630Y6V90HKT	MEMBRANE SWITCH (U)	1	S654WF (KTE,KPQ,STM,PTE)
E2	F630Y6V90SST	MEMBRANE SWITCH (U)	1	S654MF (STM)
E3	F80346K50SAP	ESCUTCHEON BASE	1	S674MF
E3	F80346K50HAP	ESCUTCHEON BASE	1	S654WF
E3	F80346K50SAP	ESCUTCHEON BASE	1	S654MF
E4	AEDDHJ5G60XN	DISPLAY	1	
E5	F66175L00AP	DISPLAY TUBE COVER	1	
E6	F67005U40XN	RUBBER CONNECTOR	1	
E7	F00076V70SHP	NAME PLATE	1	S674MF HPE
E7	F00076V90HHP	NAME PLATE	1	S654WF HPE

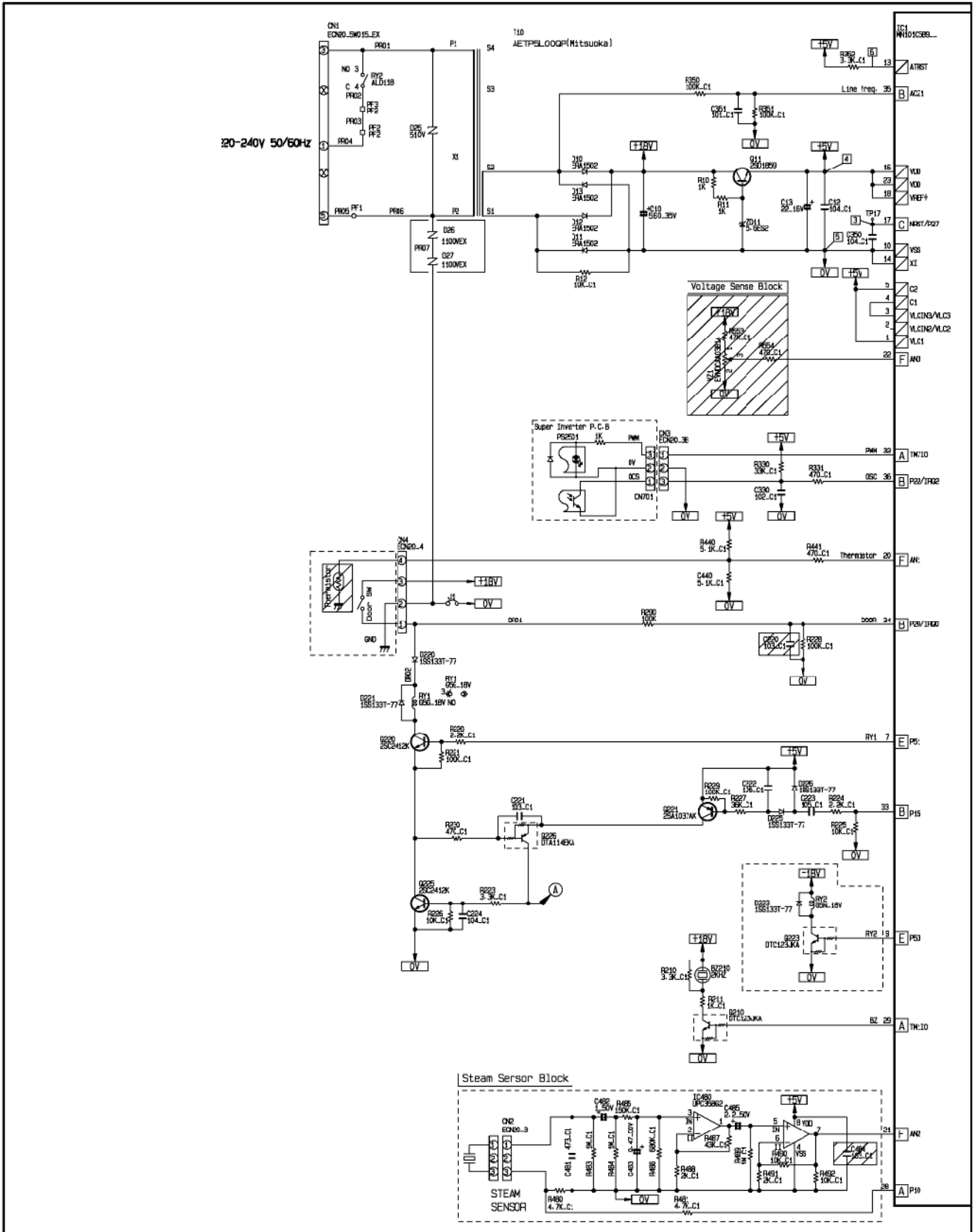
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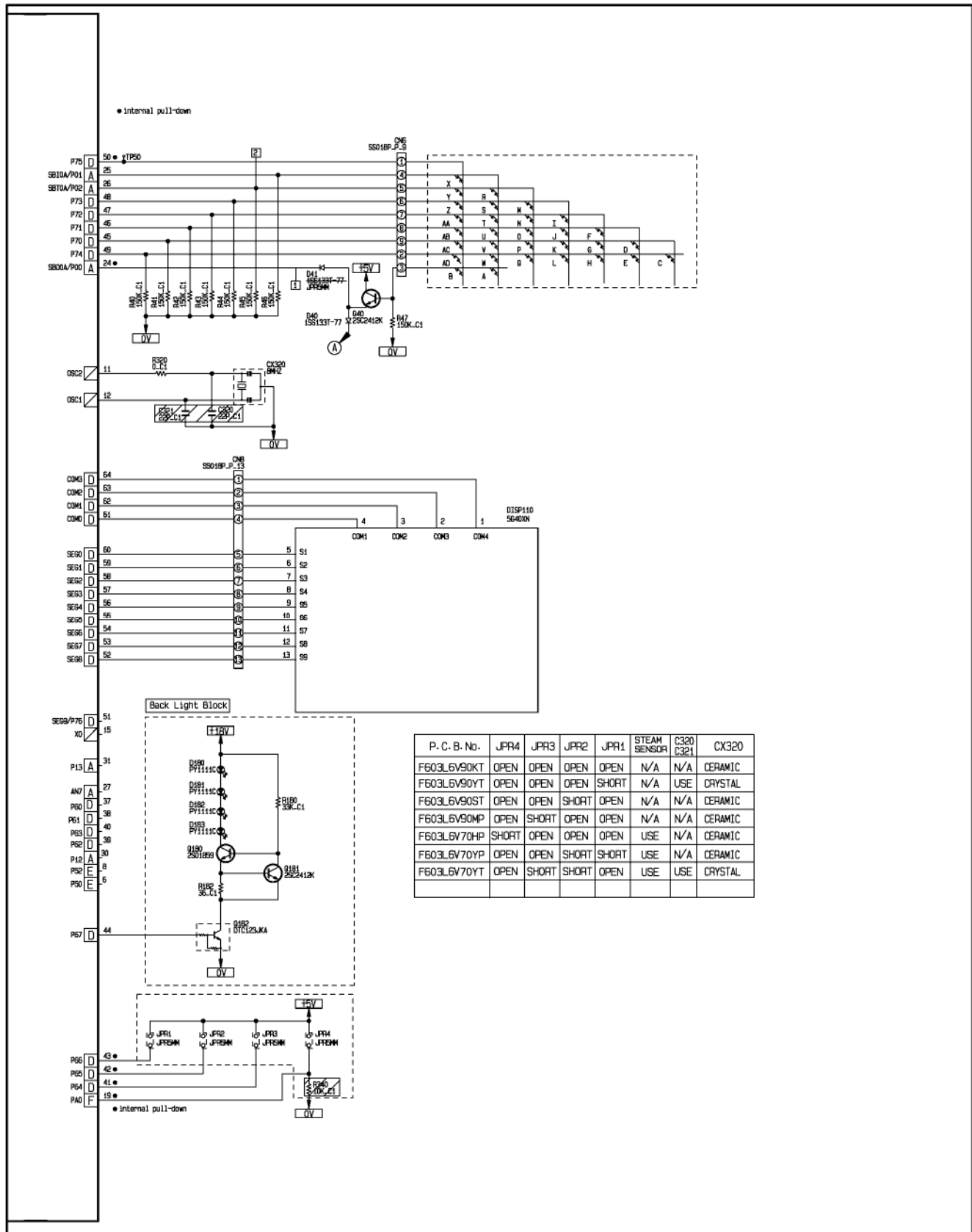
4.7 H.V. INVERTER BOARD MAIN PARTS LIST (F606Y4V00XN)

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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	

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5.2 PARTS LIST

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ210	AEFBAT2001	BUZZER	1	2.0KHz
C221	AECUU06F103Z	CHIP CAPACITOR	1	0.01 μ F/50V
C12,C224,C350	AECUU06F104Z	CHIP CAPACITOR	3	0.1 μ F/50V
C222,C223	AECUN06F105Z	CHIP CAPACITOR	2	1 μ F/10V
C330	AECUU06R102K	CHIP CAPACITOR	1	1000PF/50V
C351	AECUU06C101J	CHIP CAPACITOR	1	100PF/50V
C481	AECUU06F473Z	CHIP CAPACITOR	1	0.047 μ F/50V (S674MF)
C320,C321	AECUU06C180J	CHIP CAPACITOR	2	18PF/50V (YTE)
C10	AECETK1V561B	AL CHEM CAPACITOR	1	560 μ F/35V
C13	AECETS1C220B	AL CHEM CAPACITOR	1	22 μ F/16V
C482	AECETS1H010B	AL CHEM CAPACITOR	1	1 μ F/50V (S674MF)
C483	AECETS1HR47B	AL CHEM CAPACITOR	1	0.47 μ F/50V (S674MF)
C485	AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2 μ F/50V (S674MF)
CN1	AEEMXH01505W	CONNECTOR	1	5 Pin
CN2	AEEMMF00703W	CONNECTOR	1	3 Pin (S674MF)
CN3	F03524U00AP	CONNECTOR	1	
CN4	F03535G40XN	CONNECTOR	1	
CX320	AEFOS800MG06	CERAMIC RESONATOR	1	8.0MHz (EXCEPT YTE,KTE & PTE)
CX320	AEYXAT49-8MA	CRYSTAL RESONATOR	1	8.0MHz (YTE,KTE,PTE)
D10-D13	AESSRCT1A6-E	DIODE	4	
D40,D220,D221,D225,D226	AESS133T-77	DIODE	5	
D25	AERZ511KD10A	VARISTOR	1	
D26,D27	AERZ102KD10A	VARISTOR	2	
D180-D183	AESQPY1112H	CHIP-LED	4	
IC1	MN101C589EY	L.S.I.	1	
IC480	AEICUPC358G2	IC	1	(S674MF)
Q221	2SA1037AK	CHIP DIGI-TRANSISTOR	1	
Q226	AESA14EKE	CHIP DIGI-TRANSISTOR	1	
Q182,Q210	AESC23JKE	CHIP DIGI-TRANSISTOR	2	
Q11,Q180	2SD1859TV2Q	TRANSISTOR	2	
Q40,Q181,Q220,Q225	2SC2412KT146	CHIP TRANSISTOR	4	

R320	AERJ06J0R00R	CHIP RESISTOR	1	0Ω,1/10W,5%
R211	AERJ06J102R	CHIP RESISTOR	1	1KΩ,1/10W,5%
R12,R225,R226	AERJ06J103R	CHIP RESISTOR	3	10K,1/10W,5%
R490,R492	AERJ06J103R	CHIP RESISTOR	2	10K,1/10W,5% (S674MF)
R221,R228,R229,R350,R351	AERJ06J104R	CHIP RESISTOR	5	100K,1/10W,5%
R483,R484,R489	AERJ06J105R	CHIP RESISTOR	3	1M,1/10W,5% (S674MF)
R40-R47	AERJ06J154R	CHIP RESISTOR	8	150K,1/10W,5%
R485	AERJ06J154R	CHIP RESISTOR	1	150K,1/10W,5% (S674MF)
R488,R491	AERJ06J202R	CHIP RESISTOR	2	2K,1/10W,5% (S674MF)
R220,R224	AERJ06J222R	CHIP RESISTOR	2	2.2K,1/10W,5%
R210,R223,R352	AERJ06J332R	CHIP RESISTOR	3	3.3K,1/10W,5%
R180,R330	AERJ06J333R	CHIP RESISTOR	2	33K,1/10W,5%
R182	AERJ06J360R	CHIP RESISTOR	1	36Ω,1/10W,5%
R227	AERJ06J363R	CHIP RESISTOR	1	36K,1/10W,5%
R487	AERJ06J433R	CHIP RESISTOR	1	43K,1/10W,5% (S674MF)
R230,R331,R441	AERJ06J471R	CHIP RESISTOR	3	470Ω,1/10W,5%
R480,R481	AERJ06J472R	CHIP RESISTOR	2	4.7K,1/10W,5% (S674MF)
R440,C440	AERJ06J512R	CHIP RESISTOR	2	5.1K,1/10W,5%
R486	AERJ06J684R	CHIP RESISTOR	1	680K,1/10W,5% (S674MF)
R10,R11	AERDY2TJ102T	CARBON RESISTOR	2	1K,1/4W,5%
R290	AERDY2TJ104T	CARBON RESISTOR	2	100K,1/4W,5%
RY1	AEBGJQC25F18	POWER RELAY	1	
T10	AETP5L00QP	LOW VOLTAGE TRANSFORMER	1	
ZD11	AESZMTZJ5R6B	ZENER DIODE	1	

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