

Service Manual

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ORDER NO.SIMMC 0303015A3

Service Manual

Microwave Oven



- NN-MX21WF

NN-MX26WF

QPQ(Australia, New Zealand)

HNE(Hong Kong)

YNQ(Singapore)

MNQ(Malaysia)

TNE(Thailand, Indonesia)

LNK(Philippines)

YKE(Others)

KKE(UAE, Egypt, Iran)

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

SNM(Saudi Arabia)

ZPE(CIS Countries)

Please file and use this manual together with the service manual for Model NN-MX20/25WF (ORDER NO. SIMMC0203003C3 or SIMMC0203004C3)



Specification

Model	NN-MX21WF	NN-MX26WF
Power Source:	240V AC Single Phase, 50Hz _ _ _ _ _ For KNQ, MNQ, YNQ Models 230V~240V AC Single Phase, 50Hz _ _ For QPQ Models 220V AC Single Phase, 50Hz _ _ _ _ _ For KKE, ZPE, HNE, TNE YKE Models 220V AC Single Phase, 50Hz/60Hz _ _ _ For SNM Models 220V~230V AC Single Phase,60Hz _ _ For LNK Models	
Power Requirement:	1250W	1250W
Output(IEC705-88):	800W	800W
Microwave Frequency:	2450MHz	
Timer:	30min	29min.90sec (HIGH POWER)/99min.90sec
Outside Dimensions:	354mm(W) x 482mm(D) x 282mm(H)	
Oven Cavity Dimensions:	330mm(W) x 325mm(D) x 218mm(H)	
Weight:	14kg	
PbF	This product with PbF	
Output power:IEC705-88 Test Procedure		
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.

QPQ	For Australia, New Zealand	KKE	For UAE, Egypt, Iran
HNE	For Hongkong	KNQ	For Kuwait, Doha, Qatar,
TNE	For Thailand, Indonesia		Oman, Bahrain, Pakistan
YNQ	For Singapore	SNM	For Saudi Arabia
MNQ	For Malaysia	ZPE	For CIS Countries
LNK	For Philippines		
YKE	For Others		

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (A) Do not operate or allow the oven to be operated with the door open.
- (B) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
- (1) Interlock operation
 - (2) Proper door closing
 - (3) Seal and sealing surfaces (arcing, wear, and other damage)
 - (4) Damage to or loosening of hinges and latches.
 - (5) Evidence of dropping or abuse
- (C) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, waveguide or transmission line, and cavity for proper alignment, integrity and connections.
- (D) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- (E) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

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).

National/Panasonic.

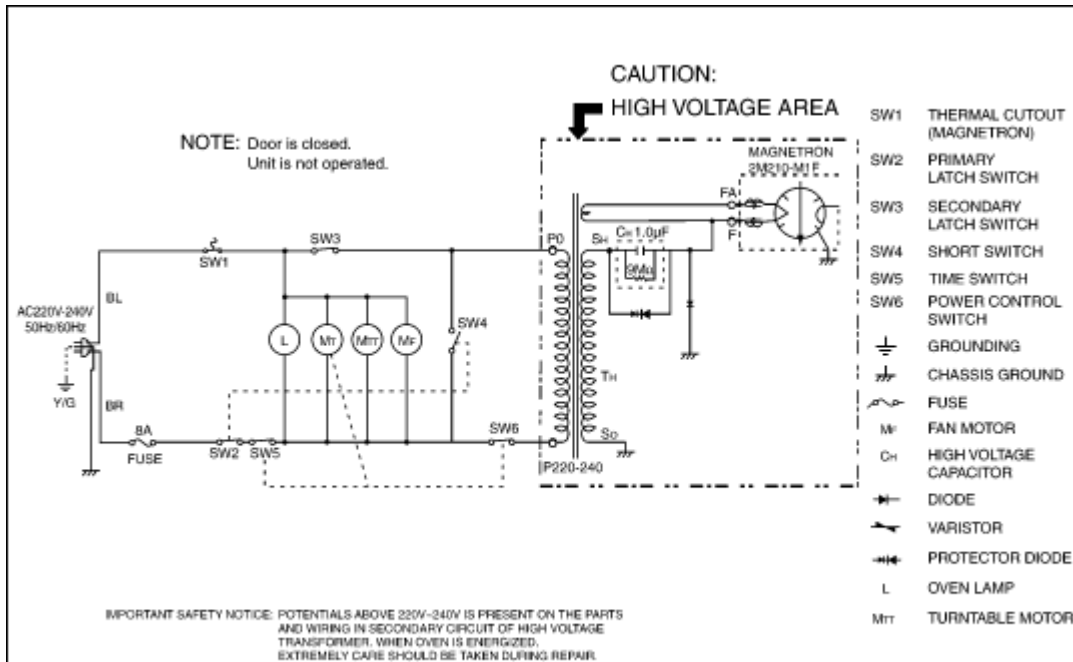
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1 SCHEMATIC DIAGRAM (NN–MX21WF(Except QPQ&ZPE))

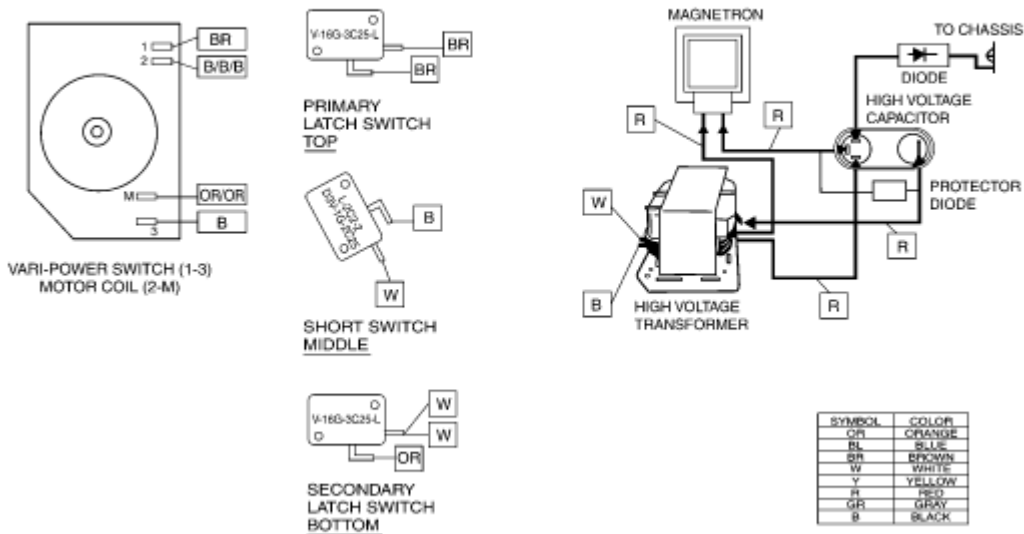
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**WIRING DIAGRAM**

NOTE: * When replacing, check the lead wire colour as shown.
* Colours shown by () indicate colours of lead wire connector housing.



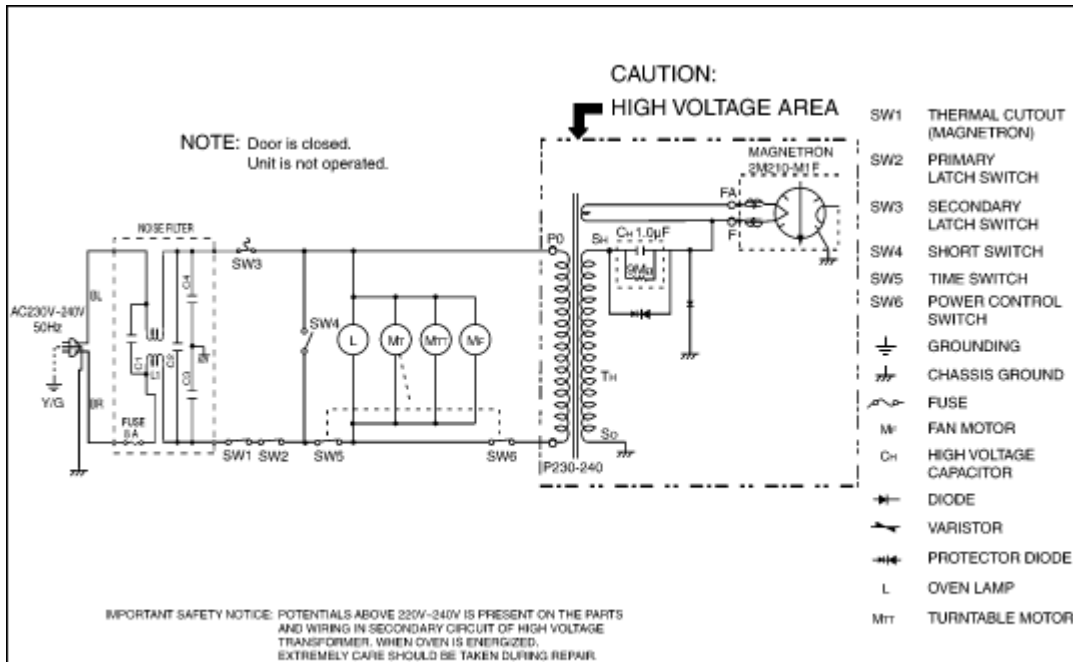
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2 SCHEMATIC DIAGRAM (NN–MX21WF (QPQ&ZPE))

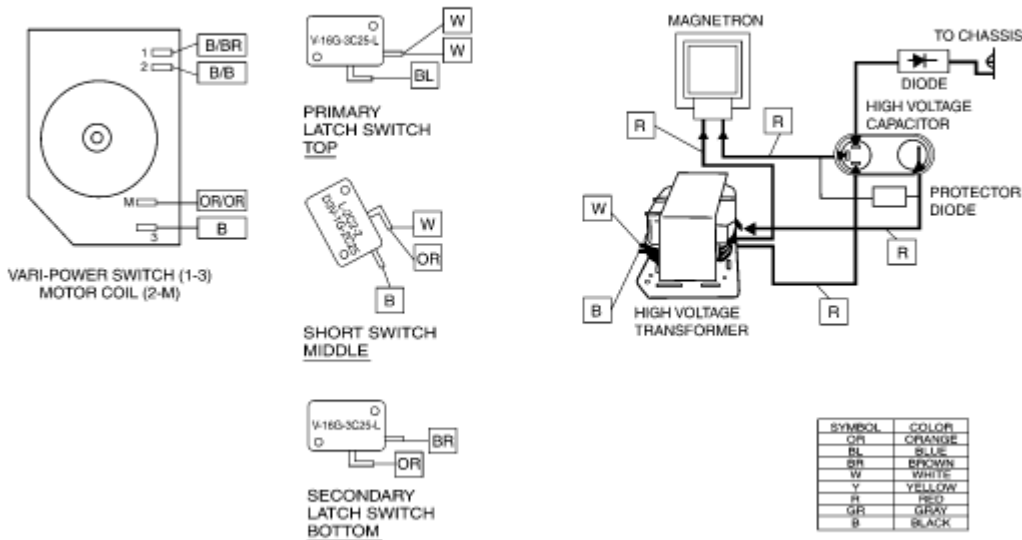
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**WIRING DIAGRAM**

NOTE: * When replacing, check the lead wire colour as shown.
* Colours shown by () indicate colours of lead wire connector housing.



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3 SCHEMATIC DIAGRAM (NN–MX26WF(Except QPQ&ZPE))

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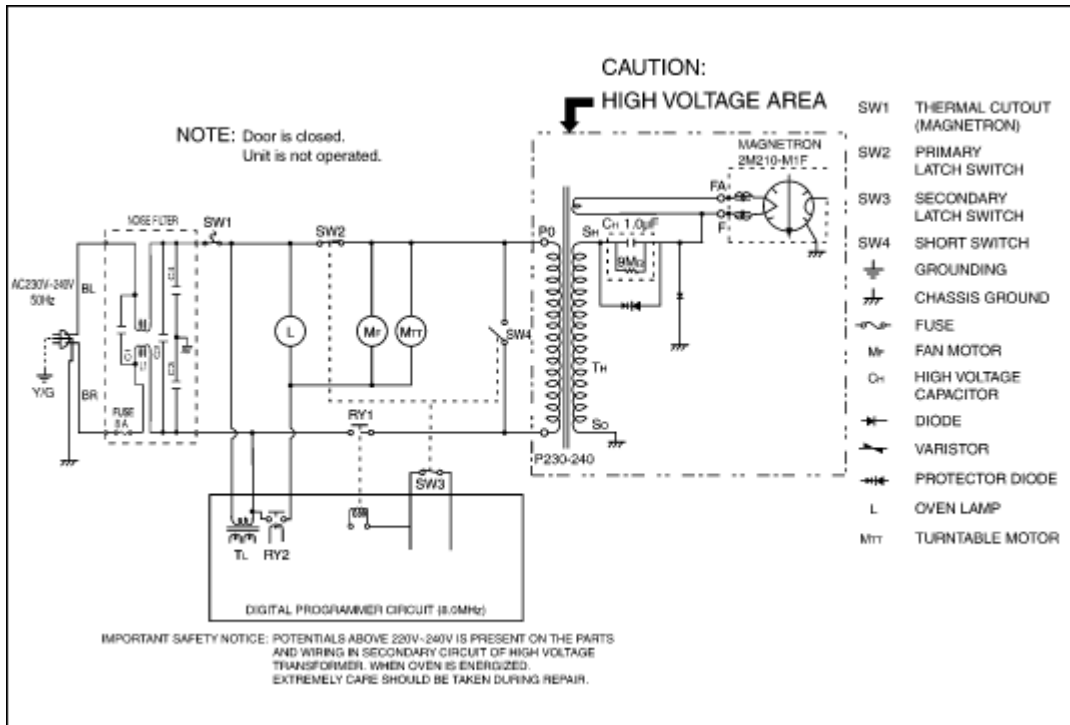
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4 SCHEMATIC DIAGRAM (NN–MX26WF (QPQ&ZPE))

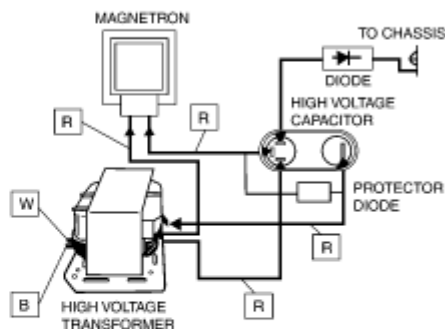
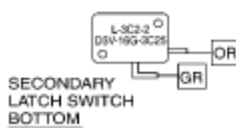
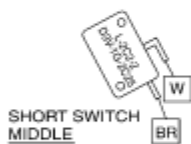
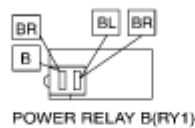
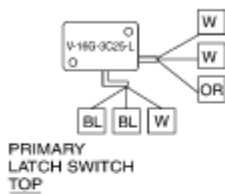
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**WIRING DIAGRAM**

NOTE: * When replacing, check the lead wire colour as shown.
* Colours shown by () indicate colours of lead wire connector housing.



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

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5 CAUTIONS TO BE OBSERVED WHEN TROUBLESHOOTING

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Unlike many other appliances, the microwave oven is high-voltage, high-current equipment. Though it is free from danger in ordinary use, extreme care should be taken during repair.

CAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.
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[5.1 Check the grounding](#)

[5.2 Warning about the electric charge in the high voltage capacitor](#)

[5.3 When parts must be replaced, remove the power plug from the outlet.](#)

[5.4 When the 8 Amp fuse is blown due to the operation of short switch:](#)

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

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5.1 Check the grounding

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Do not operate on a 2-wire extension cord. The microwave oven is designed to be used when grounded. It is imperative, therefore, to make sure it is grounded properly before beginning repair work.

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5.2 Warning about the electric charge in the high voltage capacitor

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For about 30 seconds after the oven is turned off, an electric charge remains in the high voltage capacitor. When replacing or checking parts, remove the power plug from the outlet and short the terminal of the high voltage capacitor (terminal of lead wire from diode) to chassis ground with an insulated handle screwdriver to discharge.

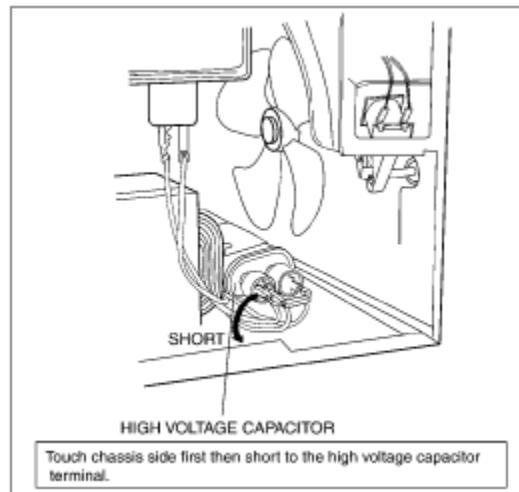
WARNING

There is high-voltage present, with high-current capabilities in the circuits of the high voltage winding and filament winding of the high voltage transformer. It is extremely dangerous to work on or near these circuits with oven energized.

DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.

WARNING

Never touch any circuit wiring with your hand nor with an insulated tool during operation.



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5.3 When parts must be replaced, remove the power plug from the outlet.

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5.4 When the 8 Amp fuse is blown due to the operation of short switch:

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WARNING
When the 15 Amp fuse is blown due to the operation of short switch, you must replace Primary latch switch and short switch. Also replace power relay B (RY1) when the continuity check reads shorted contacts(1-2).

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

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5.5 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 other holes or gaps, because such objects may work as an antenna and cause microwave leakage.

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5.6 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
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DO NOT BECOME EXPOSED TO RADIATION FROM THE MICROWAVE GENERATOR OR OTHER PARTS CONDUCTING MICROWAVE ENERGY.

IMPORTANT NOTICE

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

- * Magnetron
- * High voltage transformer
- * High voltage diode
- * High voltage capacitor

Pay special attention to these components.

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

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6 MEASUREMENTS AND ADJUSTMENTS

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[6.1 Adjustment of Primary latch switch, Secondary latch switch and Short switch.](#)

[6.2 Measurement of microwave output](#)

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6.1 Adjustment of Primary latch switch, Secondary latch switch and Short switch.

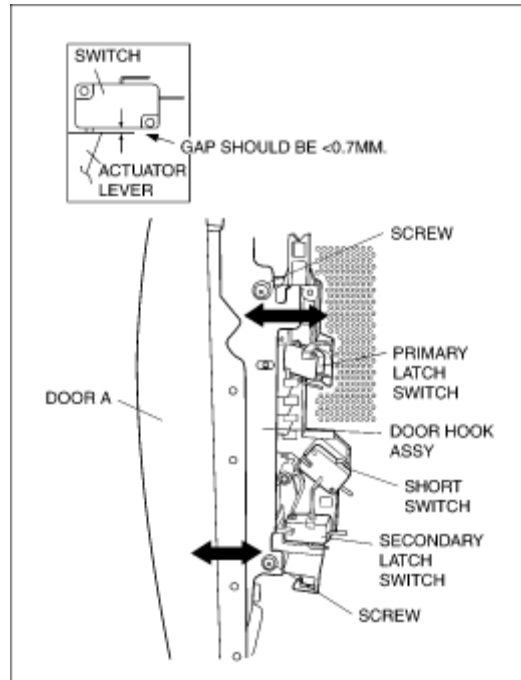
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1. Mount the Primary latch switch, the Secondary latch switch and the short switch to the door hook assembly as shown in ILL.

NOTE:

No specific individual adjustment during installation of the Primary latch switch, Secondary latch switch and 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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6.2 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
800W(IEC705-88)	Min.8.0°C

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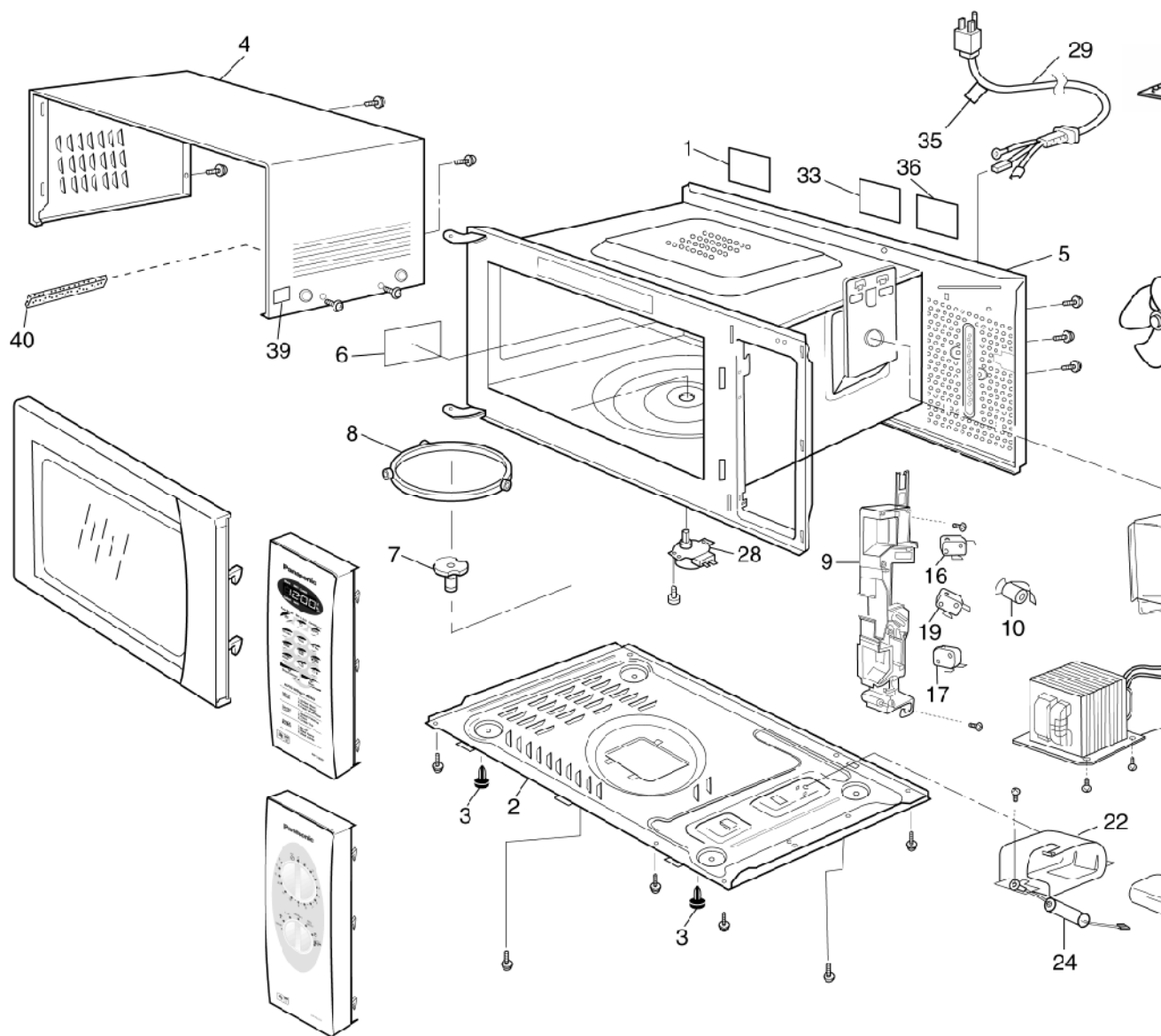
7 EXPLODED VIEW AND PARTS LIST

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EXPLODED VIEW



8 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>		F01575U40HQP	NAME PLATE	1	MX26WF QPQ
1		F01575U40HHN	NAME PLATE	1	MX26WF HNE
1		F01575U40HTN	NAME PLATE	1	MX26WF TNE
1		F01575U40HYK	NAME PLATE	1	MX26WF YKE
1		F01575U40HMN	NAME PLATE	1	MX26WF MNQ
1		F01575U40HYN	NAME PLATE	1	MX26WF YNQ
1		F01575U40HLN	NAME PLATE	1	MX26WF LNK
1		F01575U40HKK	NAME PLATE	1	MX26WF KKE
1		F01575U40HKN	NAME PLATE	1	MX26WF KNQ
1		F01575U40HSN	NAME PLATE	1	MX26WF SNM
1		F01575U40HZP	NAME PLATE	1	MX26WF ZPE
1		F01575U30HQP	NAME PLATE	1	MX21WF QPQ
1		F01575U30HHN	NAME PLATE	1	MX21WF HNE
1		F01575U30HTN	NAME PLATE	1	MX21WF TNE
1		F01575U30HYK	NAME PLATE	1	MX21WF YKE
1		F01575U30HMN	NAME PLATE	1	MX21WF MNQ
1		F01575U30HYN	NAME PLATE	1	MX21WF YNQ
1		F01575U30HLN	NAME PLATE	1	MX21WF LNK
1		F01575U30HKK	NAME PLATE	1	MX21WF KKE
1		F01575U30HKN	NAME PLATE	1	MX21WF KNQ

1		F01575U30HZP	NAME PLATE	1	MX21WF ZPE
<u>2</u>		F10015G10XN	BASE	1	
<u>3</u>		F10084T00AP	RUBBER FOOT	2	
<u>4</u>		F110D5U30HXN	CABINET BODY	1	
<u>5</u>		F200A5G10XN	OVEN	1	
<u>6</u>		F20555G10XN	COVER	1	
<u>7</u>		F21315G10XN	PULLY SHAFT	1	
<u>8</u>		F290D5G10XN	ROLLER RING (U)	1	
<u>9</u>		F30205G10XN	DOOR HOOK	1	
<u>10</u>		F31365G10XN	HOOK LEVER A	1	
<u>11</u>		F400A5U00XN	FAN MOTOR	1	EXCEPT LNK
11		F400A4000LN	FAN MOTOR	1	LNK
<u>12</u>		F40085G10XN	FAN BLADE	1	
<u>13</u>		F40255G10XN	AIR GUIDE A	1	
<u>14</u>		F41445G40XN	ORIFICE	1	EXCEPT SNM
14		F41445G40AP	ORIFICE	1	SNM
<u>15</u>		F612E5G10XN	INCANDESCENT LAMP (U)	1	EXCEPT HNE
<u>16</u>		J61415G10XN	MICRO SWITCH	1	(PRIMARY LATCH SWITCH)
<u>17</u>		J61415G10XN	MICRO SWITCH	1	MX21WF (SECONDARY LATCH SWITCH)
17		F61415U30XN	MICRO SWITCH	1	MX26WF (SECONDARY LATCH SWITCH)
<u>18</u>		F61455G10XN	THERMAL CUTOUT	1	60°C ON, 180°C OFF
<u>19</u>		F61785U30XN	MICRO SWITCH	1	(SHORT SWITCH)
<u>20</u>		2M210-M1F1CR	MAGNETRON	1	EXCEPT QPQ, SNM & ZPE
20		2M210-M1G	MAGNETRON	1	QPQ & ZPE
20		2M261-M22F	MAGNETRON	1	SNM

<u>21</u>		F60905G10XN	H.V.CAPACITOR	1	EXCEPT LNK & SNM (1.0μF, 2100V)
21		F60905G10AP	H.V.CAPACITOR	1	LNK (1.0μF, 2100V)
21		F60905G40SN	H.V.CAPACITOR	1	SNM (1.0μF, 2100V)
<u>22</u>		F60375G10XN	CAPACITOR BRACKET	1	
<u>23</u>		F621B5G10XN	H.V.TRANSFORMER	1	HNE, TNE, YKE, KKE, ZPE
23		F621B5G10MN	H.V.TRANSFORMER	1	QPQ, MNQ, YNQ, KNQ
23		F621B5G10LN	H.V.TRANSFORMER	1	LNK
23		F621B5G40SN	H.V.TRANSFORMER	1	SNM
<u>24</u>		F62025G10XN	DIODE	1	
<u>25</u>		F606V5G10XN	PROTECTOR DIODE (U)	1	EXCEPT SNM
25		F606V5G40SN	PROTECTOR DIODE (U)	1	SNM
<u>26</u>		F62305G10XN	FUSE	1	8A, 250V (EXCEPT QPQ & SNM)
26		ANE6230Z70BP	FUSE	1	8A, 250V (QPQ)
26		A62304210BP	FUSE	1	8A, 250V (SNM)
<u>27</u>		F62315G10XN	FUSE HOLDER	1	EXCEPT QPQ & ZPE
<u>28</u>		F63265U30XN	TURNTABLE MOTOR	1	
<u>29</u>		F900C5G10QP	AC CORD W/PLUG	1	QPQ
29		F900C5G10YK	AC CORD W/PLUG	1	HNE, YKE, MNQ, KKE, KNQ
29		F900C5G10YN	AC CORD W/PLUG	1	YNQ
29		F900C5G10TN	AC CORD W/PLUG	1	TNE
29		F900C5G10LN	AC CORD W/PLUG	1	LNK
29		F900C5G40SN	AC CORD W/PLUG	1	SNM

29		F900C5G40ZP	AC CORD W/PLUG	1	ZPE
<u>30</u>		XTWFA4+12T	SCREW	4	FOR MAGNETRON
<u>31</u>		XTEFA3+6B	SCREW	2	FOR THERMAL CUTOUT
<u>33</u>		F00068100HN	CAUTION LABEL	1	EXCEPT ZPE
33		F00065E90ZP	CAUTION LABEL	1	ZPE
<u>34</u>		F692Y5G10QP	NOISE FILTER (U)	1	QPQ, ZPE
<u>35</u>		F02395E20KN	CORD CAUTION LABEL	1	KKE, KNQ, SNM
<u>36</u>		F00065540MN	CAUTION LABEL	1	YNQ
<u>37</u>		F60305G60HN	INCANDESCENT LAMP	1	HNE
<u>38</u>		F61525H00AP	SOCKET	1	HNE
<u>39</u>		F02845U40YN	NO.LABEL	1	MX26WF YNQ
39		F02845U30YN	NO.LABEL	1	MX21WF YNQ
<u>40</u>		F0922000EF	CUSHION RUBBER	1	

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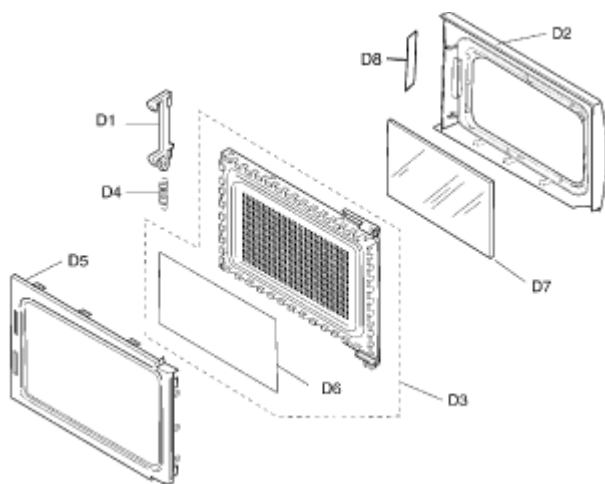
9 DOOR ASSEMBLY

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Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
D1		F30185G10XN	DOOR KEY A	1	
D2		F30015U40HXN	DOOR A	1	MX26WF
D2		F30015U30HXN	DOOR A	1	MX21WF
D3		F302K5G10XN	DOOR E (U)	1	
D4		F30215G10XN	DOOR KEY SPRING	1	
D5		F30855G10XN	DOOR C	1	
D6		F31455G10XN	DOOR SCREEN A	1	
D7		F31465U30XN	DOOR SCREEN B	1	
D8		F01729660JP	CAUTION LABEL B	1	QPQ
D8		F02459660AP	DHHS LABEL	1	LNK

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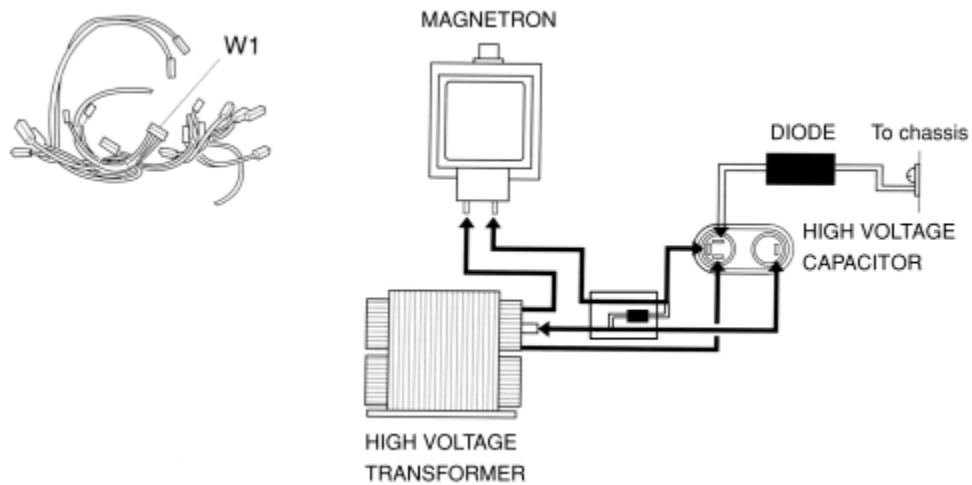
10 WIRING MATERIALS

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
W1	F030A5G40QP	LEAD WIRE HARNESS	1	MX26WF (QPQ, ZPE)
W1	F030A5G40HN	LEAD WIRE HARNESS	1	MX26WF (EXCEPT QPQ & ZPE)
W1	F030A-5G10	LEAD WIRE HARNESS	1	MX21WF (QPQ, ZPE)
W1	F030A5G10XN	LEAD WIRE HARNESS	1	MX21WF (EXCEPT QPQ & ZPE)

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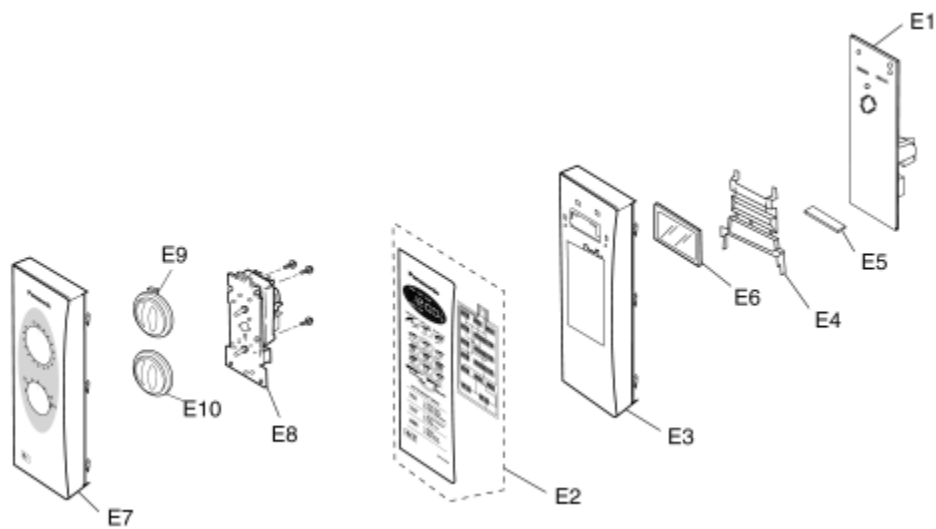
11 ESCUTCHEON BASE ASSEMBLY

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
E1	F603L5G40QP	D.P.CIRCUIT	1	MX26WF (QPQ)
E1	F603L5G40HN	D.P.CIRCUIT	1	MX26WF (HNE, TNE, YKE, MNQ, YNQ)
E1	F603L5G40LN	D.P.CIRCUIT	1	MX26WF (LNK)
E1	F603L5G40KK	D.P.CIRCUIT	1	MX26WF (KKE, KNQ)
E1	F603L5G40SN	D.P.CIRCUIT	1	MX26WF (SNM)
E1	F603L5G40ZP	D.P.CIRCUIT	1	MX26WF (ZPE)
E2	F630Y5U40HQP	MEMBRANE SWITCH(U)	1	MX26WF (QPQ)
E2	F630Y5U40HHN	MEMBRANE SWITCH(U)	1	MX26WF (HNE, TNE, YKE, MNQ, YNQ, LNK)
E2	F630Y5U40HKK	MEMBRANE SWITCH(U)	1	MX26WF (KKE, KNQ, SNM)
E2	F630Y5U40HZP	MEMBRANE SWITCH(U)	1	MX26WF (ZPE)
E3	F80345U40HXN	ESCUTCHEON BASE	1	MX26WF
E4	F66174T00AP	DISPLAY TUBE COVER	1	MX26WF
E5	A67004T00AP	RUBBER CONNECTOR	1	MX26WF
E6	AEDDHJ5G40XN	DISPLAY	1	MX26WF (EXCEPT QPQ)
E6	AEDDHJ5G60XN	DISPLAY	1	MX26WF (QPQ)
E7	F80345U30HQP	ESCUTCHEON BASE	1	MX21WF (QPQ)
E7	F80345U30HHN	ESCUTCHEON BASE	1	MX21WF (HNE, TNE, YKE, MNQ, YNQ, LNK)
E7	F80345U30HKK	ESCUTCHEON BASE	1	MX21WF (KKE, KNQ)
E7	F80345U30HZP	ESCUTCHEON BASE	1	MX21WF (ZPE)
E8	F60015G10XN	TIMER	1	MX21WF (EXCEPT LNK)
E8	F60015G10LN	TIMER	1	MX21WF (LNK)
E9	F80205U30HXN	TIMER KNOB	1	MX21WF
E10	F80205V00HXN	TIMER KNOB	1	MX21WF

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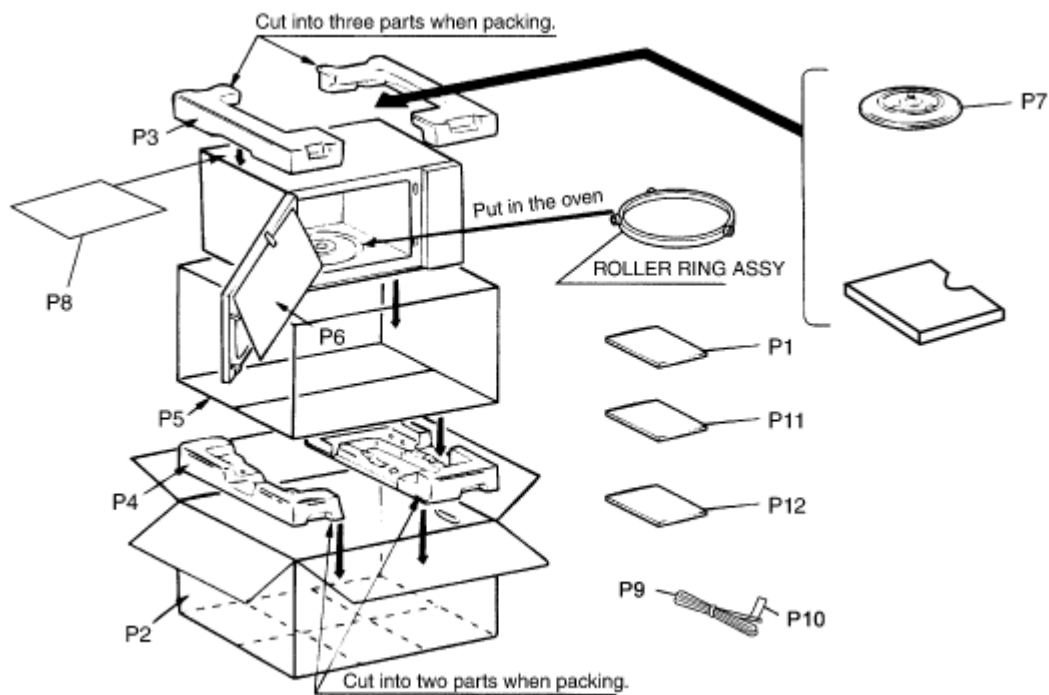
12 PACKING AND ACCESSORIES

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
P1	F00035U30QP	INSTRUCTION MANUAL	1	QPQ
P1	F00035U30HN	INSTRUCTION MANUAL	1	HNE, TNE, YKE, MNQ, YNQ, LNK
P1	F00035U30KN	INSTRUCTION MANUAL	1	KKE, KNQ, SNM
P1	F00035U30ZP	INSTRUCTION MANUAL	1	ZPE
P2	F01025U40HQP	PACKING CASE, PAPER	1	MX26WF (QPQ)
P2	F01025U40HHN	PACKING CASE, PAPER	1	MX26WF (HNE, TNE, MNQ, YNQ, LNK)
P2	F01025U40HYK	PACKING CASE, PAPER	1	MX26WF (YKE)
P2	F01025U40HKK	PACKING CASE, PAPER	1	MX26WF (KKE)
P2	F01025U40HKN	PACKING CASE, PAPER	1	MX26WF (KNQ, SNM)
P2	F01025U40HZP	PACKING CASE, PAPER	1	MX26WF (ZPE)
P2	F01025U30HQP	PACKING CASE, PAPER	1	MX21WF (QPQ)
P2	F01025U30HHN	PACKING CASE, PAPER	1	MX21WF (HNE, TNE, MNQ, YNQ, LNK)
P2	F01025U30HYK	PACKING CASE, PAPER	1	MX21WF (YKE)
P2	F01025U30HKN	PACKING CASE, PAPER	1	MX21WF (KNQ)
P2	F01025U30HZP	PACKING CASE, PAPER	1	MX21WF (ZPE)
P3	F01045G40XN	UPPER FILLER	1	
P4	F01055G40XN	LOWER FILLER	1	
P5	F01068100XN	P.E.BAG	1	
P6	F01075G10XN	DOOR SHEET	1	
P7	A06015G10XN	COOKING TRAY	1	
P8	F01924T00AP	SHEET	1	
P9	F9164-5G10	EARTH LEAD	1	TNE
P10	F00324040XN	EARTH CAUTION LABEL	1	TNE
P11	F04455U40HTN	MENU LABEL	1	MX26WF (TNE)
P11	F04455U40HMN	MENU LABEL	1	MX26WF (MNQ)
P11	F04455U40HKN	MENU LABEL	1	MX26WF (KKE)
P12	F00065G40AP	CAUTION LABEL	1	QPQ

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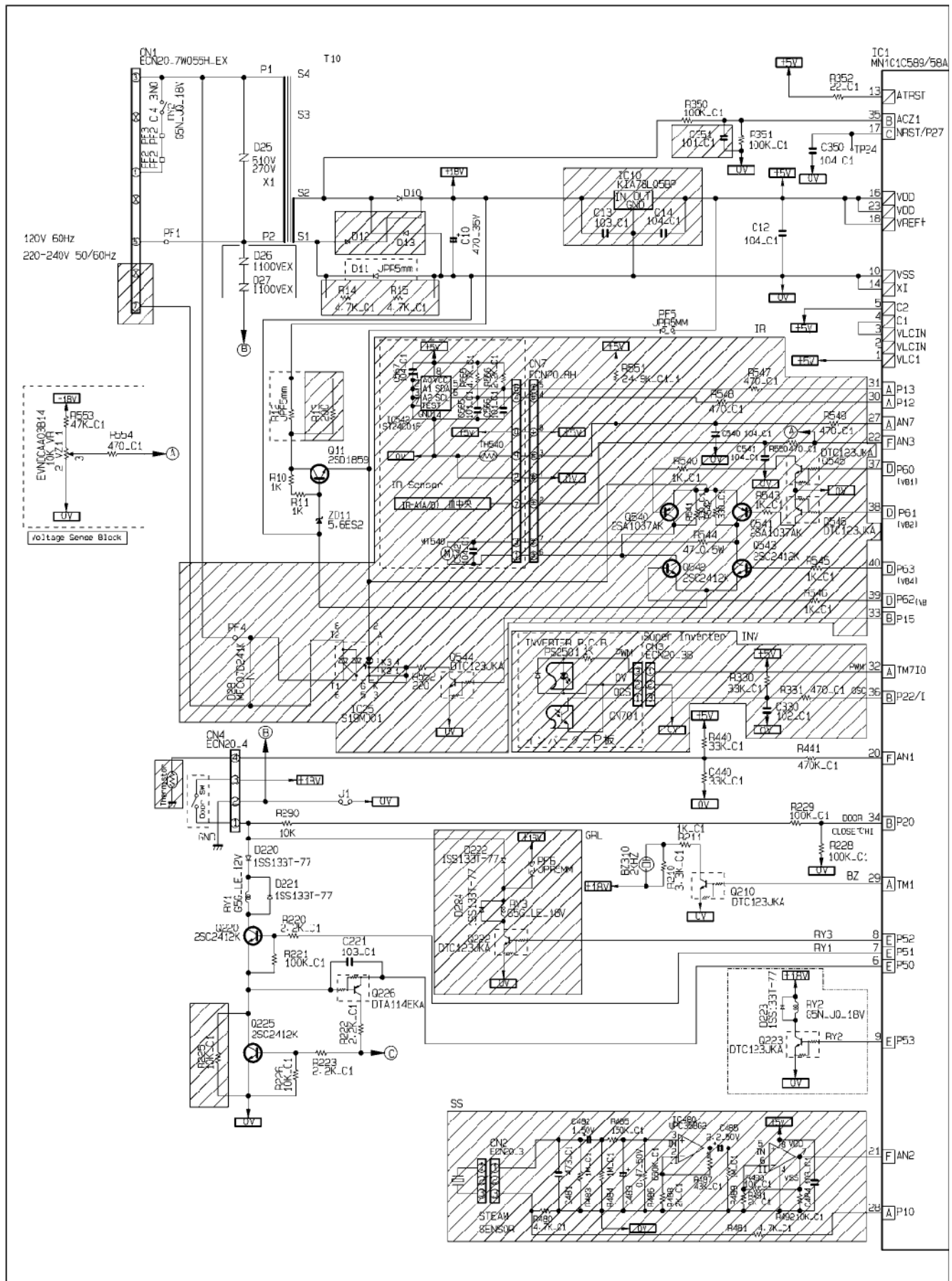
13 DIGITAL PROGRAMMER CIRCUIT (NN– MX26WF)

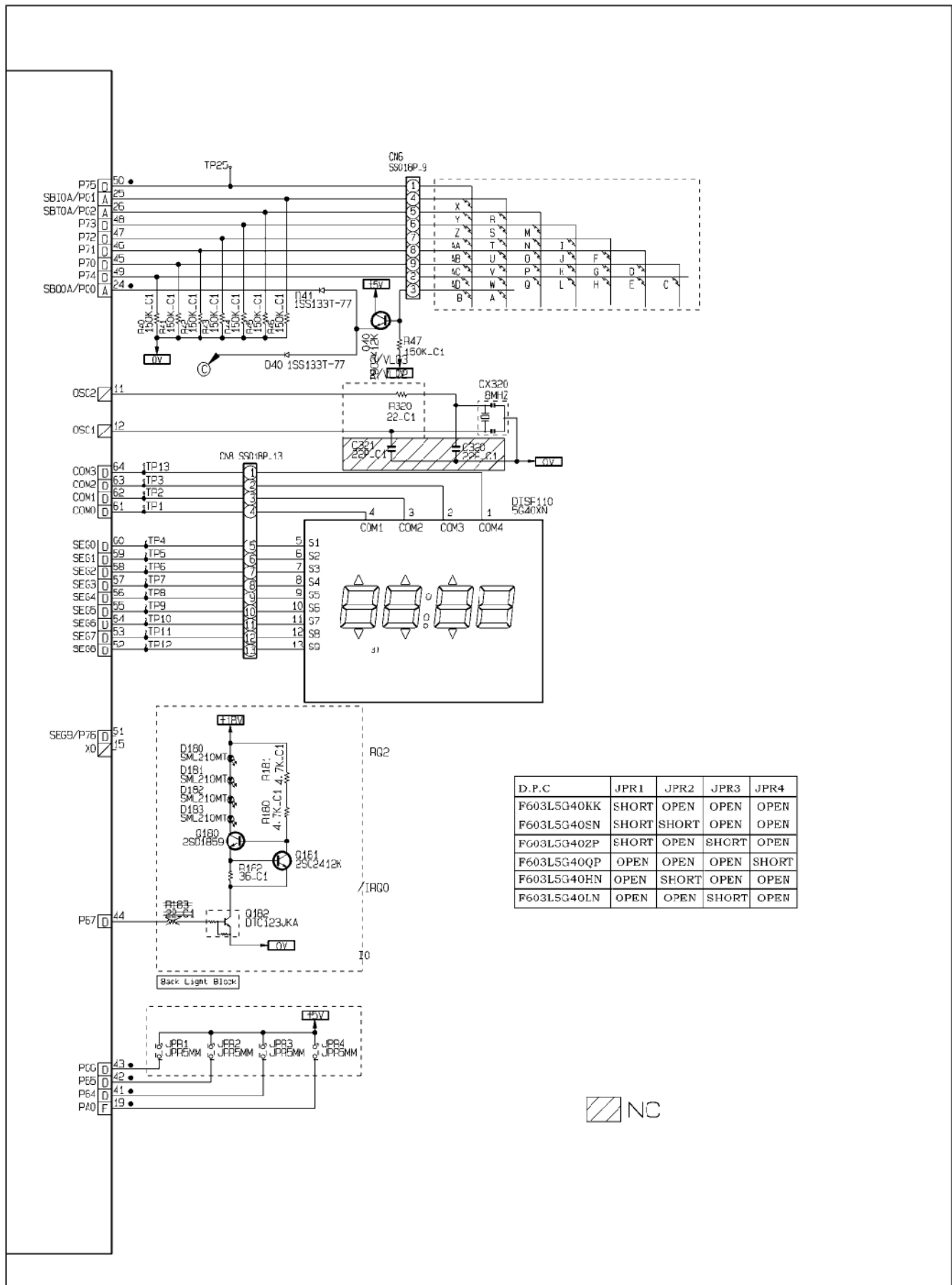
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SCHEMATIC DIAGRAM



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14 DIGITAL PROGRAMMER CIRCUIT

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PARTS LIST

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310	AEFBTFM571	BUZZER	1	2.0KHz
C10	AECETK1V471B	AL CHEM CAPACITOR	1	470 μ F/35V
C221	AECUU06F103Z	CHIP CAPACITOR	1	0.01 μ F/50V
C12, C350	AECUT06F104Z	CHIP CAPACITOR	2	0.1 μ F/25V
CN1	AEEMXF01505W	CONNECTOR	1	
CN4	F03535G40XN	CONNECTOR	1	4 Pin
CX320	AEFOS800MG06	CERAMIC RESONATOR	1	8.00MHz
D10	AEDNERA1502	DIODE	1	
D40, D41, D220, D221, D223	AESS133T-77	DIODE	5	
D180-D183	AESQSML210M	LED	4	(QPQ)
D25	AERZ511KD10A	VARISTOR	1	
D26, D27	AERZ102KD10A	VARISTOR	2	
IC1	MN101C589DK	L.S.I	1	
Q11	2SD1859TV2Q	TRANSISTOR	1	
Q180	2SD1859TV2Q	TRANSISTOR	1	(QPQ)
Q40, Q220, Q225	2SC2412KT146	CHIP TRANSISTOR	3	
Q181	2SC2412KT146	CHIP TRANSISTOR	1	(QPQ)
Q210, Q223	AESC23JKE	CHIP DIGI-TRANSISTOR	2	
Q182	AESC23JKE	CHIP DIGI-TRANSISTOR	1	(QPQ)
Q226	AESA14EKE	CHIP DIGI-TRANSISTOR	1	
R211	AERJ06J102R	CHIP RESISTOR	1	1K Ω , 1/16W, 5%
R226	AERJ06J103R	CHIP RESISTOR	1	10K Ω , 1/16W, 5%
R221, R228, R229, R350, R351	AERJ06J104R	CHIP RESISTOR	5	100K Ω , 1/16W, 5%
R40-R47	AERJ06J154R	CHIP RESISTOR	8	150K Ω , 1/16W, 5%
R320, R352	AERJ06J220R	CHIP RESISTOR	2	22 Ω , 1/16W, 5%
R220, R222, R223	AERJ06J222R	CHIP RESISTOR	3	2.2K Ω , 1/16W, 5%
R210	AERJ06J332R	CHIP RESISTOR	1	3.3K Ω , 1/16W, 5%
R440, C440	AERJ06J333R	CHIP RESISTOR	2	33K Ω , 1/16W, 5%
R182	AERJ06J360R	CHIP RESISTOR	1	36 Ω , 1/16W, 5% (QPQ)

R441	AERJ06J471R	CHIP RESISTOR	1	470Ω, 1/16W, 5%
R180, R181	AERJ06J472R	CHIP RESISTOR	2	4.7KΩ, 1/4W, 5% (QPQ)
R10, R11	AERDY2TJ102T	CARBON FILM RESISTOR	2	1KΩ, 1/4W, 5%
R290	AERDY2TJ103T	CARBON FILM RESISTOR	1	10KΩ, 1/4W, 5%
RY1	AEGG5G1A12	POWER RELAY	1	
RY2	AEBJQ1A18	POWER RELAY	1	
T10	AETP4T00QP	LOW VOLTAGE TRANSFORMER	1	
ZD11	AESZMTZJ5R6B	ZENER DIODE	1	

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