

SERVICE

M A N U A L

23L MICROWAVE

NYMWB23A1

Disclaimer

The information contained in this Service Manual is intended for licensed service personnel only.

CAUTION

WARNING: Repairs must be done only by a qualified service person.

In order to prevent electric shocks:

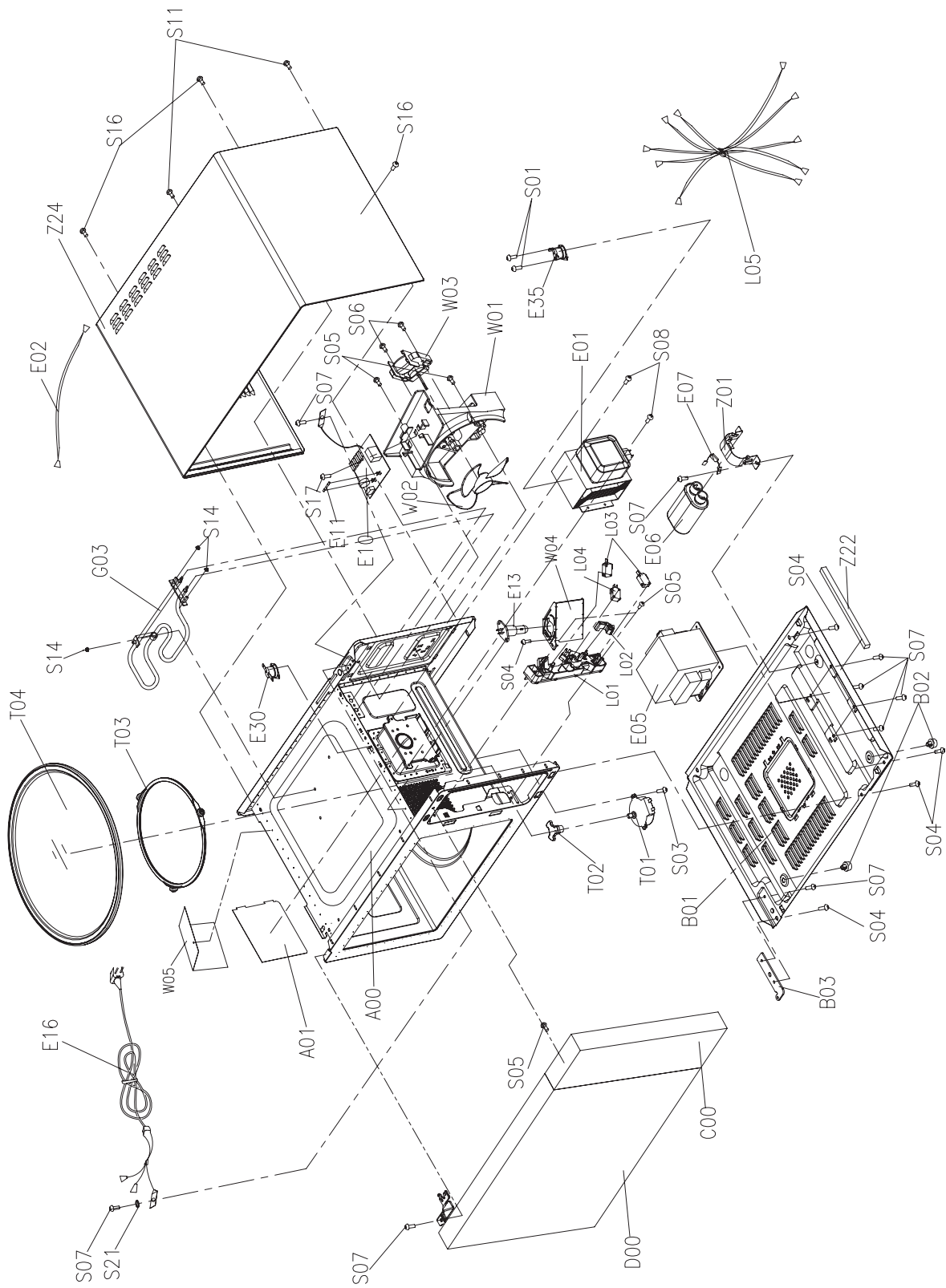
- Before performing maintenance or repair, turn the appliance off and disconnect it from the power supply.
- Do not touch the housing or frame of the microwave if the appliance is deemed faulty. These components may be live.
- Ensure that the high-voltage capacitor is discharged before proceeding with any repair.
- If tests have to be performed while the appliance is live, always use a residual-current-operated circuit breaker.
- Do not test the high-voltage circuit while the appliance is in operation. DANGER OF DEATH!

Once the repairs are completed, conduct a functional test.

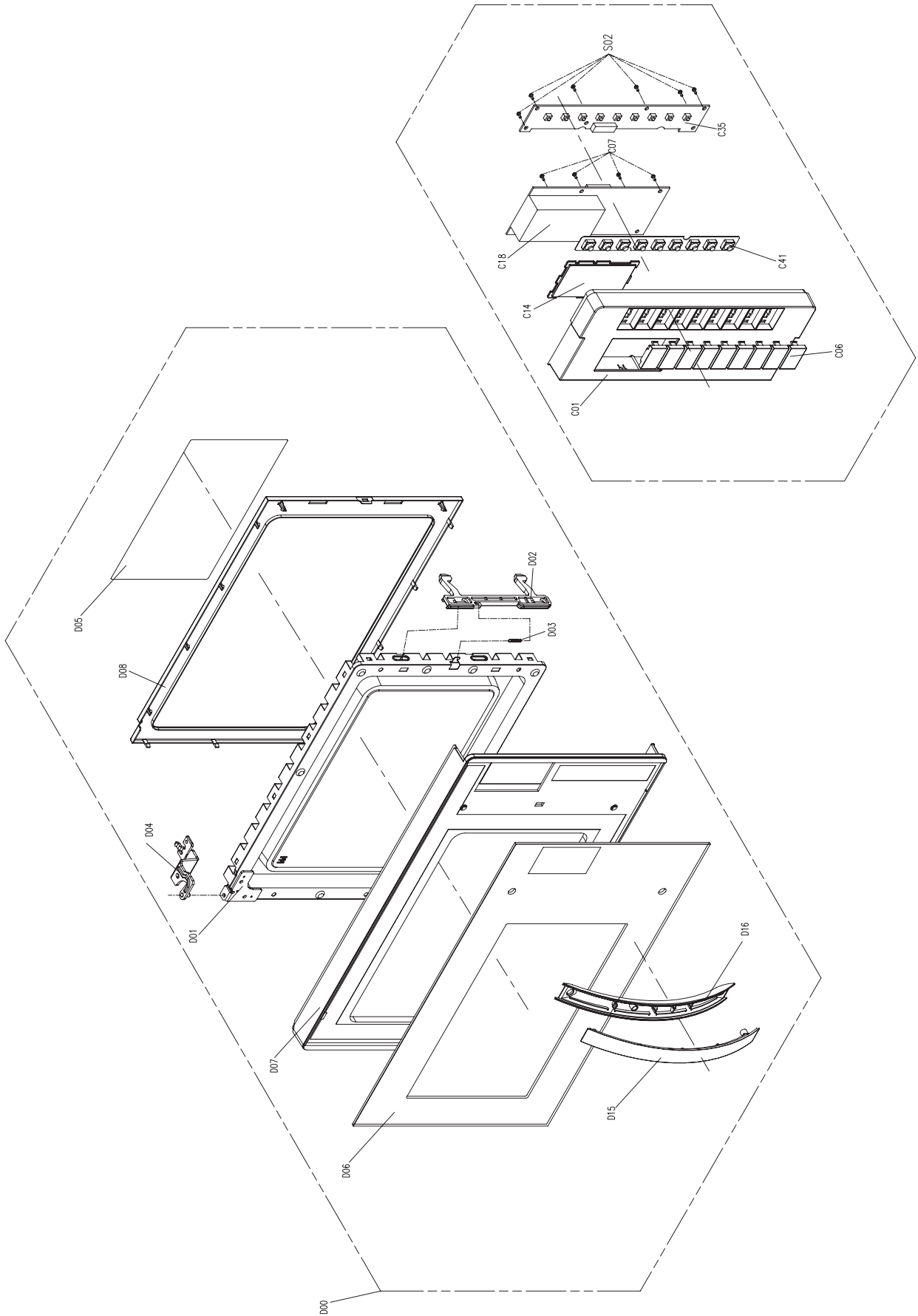
PRODUCT SPECIFICATIONS

Dimensions	W485 x D405 x H293mm
Voltage / Frequency	220 -240V~ / 50Hz
Rated Power	1250W
Microwave Power	800W
Capacity	23L
Turntable diameter	ø 270mm
Net weight	13.7kg

EXPLODED VIEW



EXPLODED VIEW



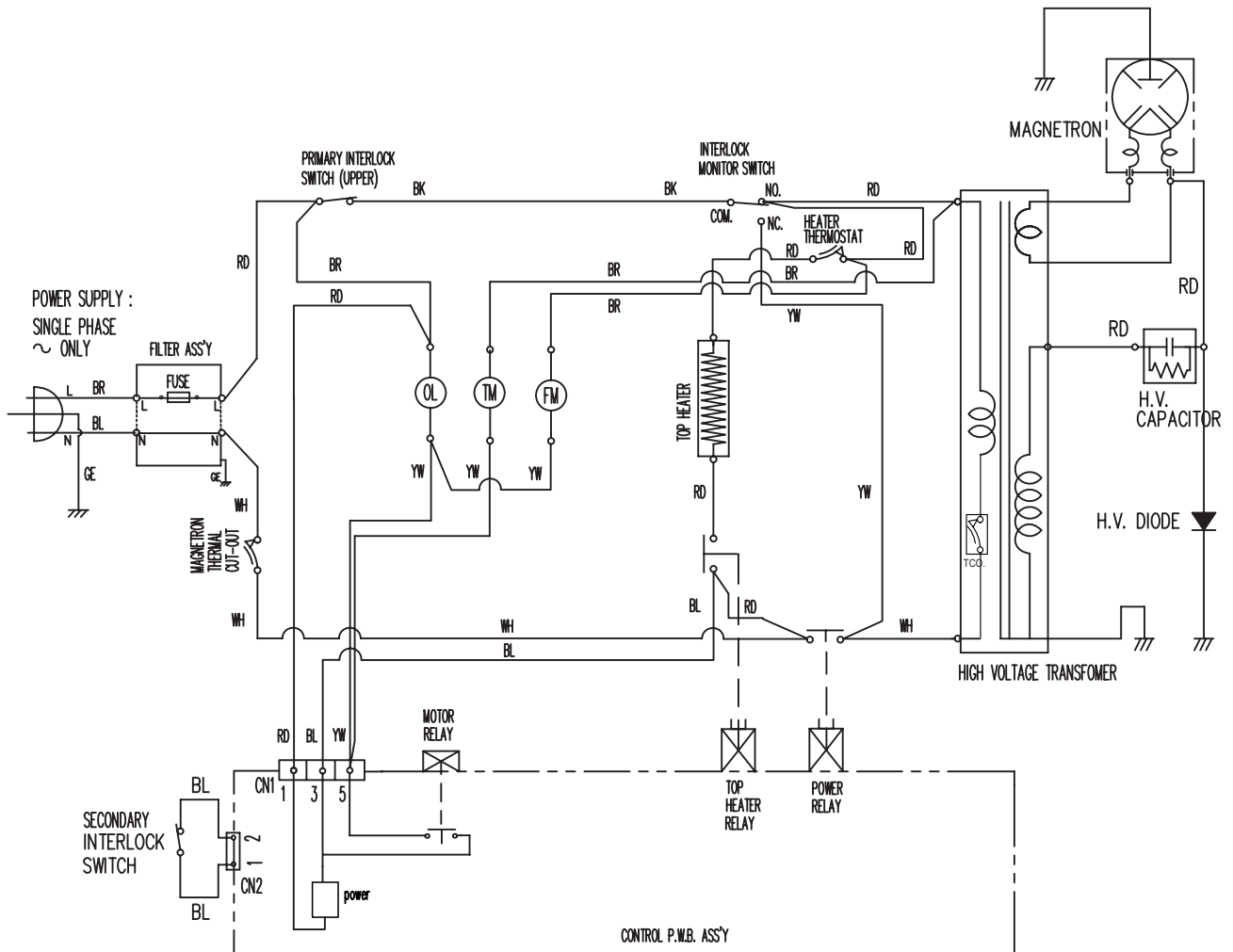
PARTS LIST

ID	Part Number	Description
C00	2899913	CONTROL PANEL ASSEMBLY - MW23L
C35	2899514	BUTTONS PCB
C41/C55	2899914	SILICA GEL PAD
C18	2899515	MAIN PCB
C06	2899413	BUTTONS (ROW)
T03	2899915	TURNTABLE RING ASSEMBLY
W02	2899414	FAN BLADES
W01	2899415	FAN FRAME
W03	2899505	FAN MOTOR
L01	2899916	DOOR LATCH
L02	2899412	INTERLOCK LEVER
L04	2899516	MICROSWITCH (monitor)
L03	2899517	MICROSWITCH (interlock)
W04/C43	2899408	LIGHT COVER
E13	2899518	LIGHT
T02	2899416	COUPLER
E06	2899519	CAPACITOR (high voltage)
E07	2899513	DIODE (high voltage)
B02	2899917	FOOT
Z01	2899104	BRACKET FOR HIGH VOLTAGE CAPACITOR
B03	2899105	LOWER HINGE
A01	2899906	SPLASH COVER
T04	2899801	TURNTABLE GLASS PLATE (270mm)
T01	2899503	TURNTABLE MOTOR
E35	2899520	THERMOSTAT 160°C/95°C *V
Z24	2899106	OUTER CASE
E16	2899522	POWER CORD
E29	2899521	THERMOSTAT 70/59°C *H
E01	2899510	MAGNETRON
G03	2899522	GRILL ELEMENT

PARTS LIST

ID	Part Number	Description
E05	2899523	TRANSFORMER (high voltage)
D00	2899918	WHOLE DOOR ASSEMBLY
D04	2899919	TOP HINGE ASSEMBLY
D03	2899200	SPRING FOR DOOR LATCH
D02	2899416	DOOR LATCH
D15+D16	2899920	DOOR HANDLE
E10+E11	2899524	NOISE FILTER AND FUSE ASSEMBLY

WIRING DIAGRAM



[CONDITION]

DOOR : CLOSED

COOK : OFF

NOTE :

⊙ : OVEN LAMP

⊙ : FAN MOTOR

⊙ : TRAY MOTOR

BK : BLACK

RD : RED

WH : WHITE

YW : YELLOW

BL : BLUE

BR : BROWN

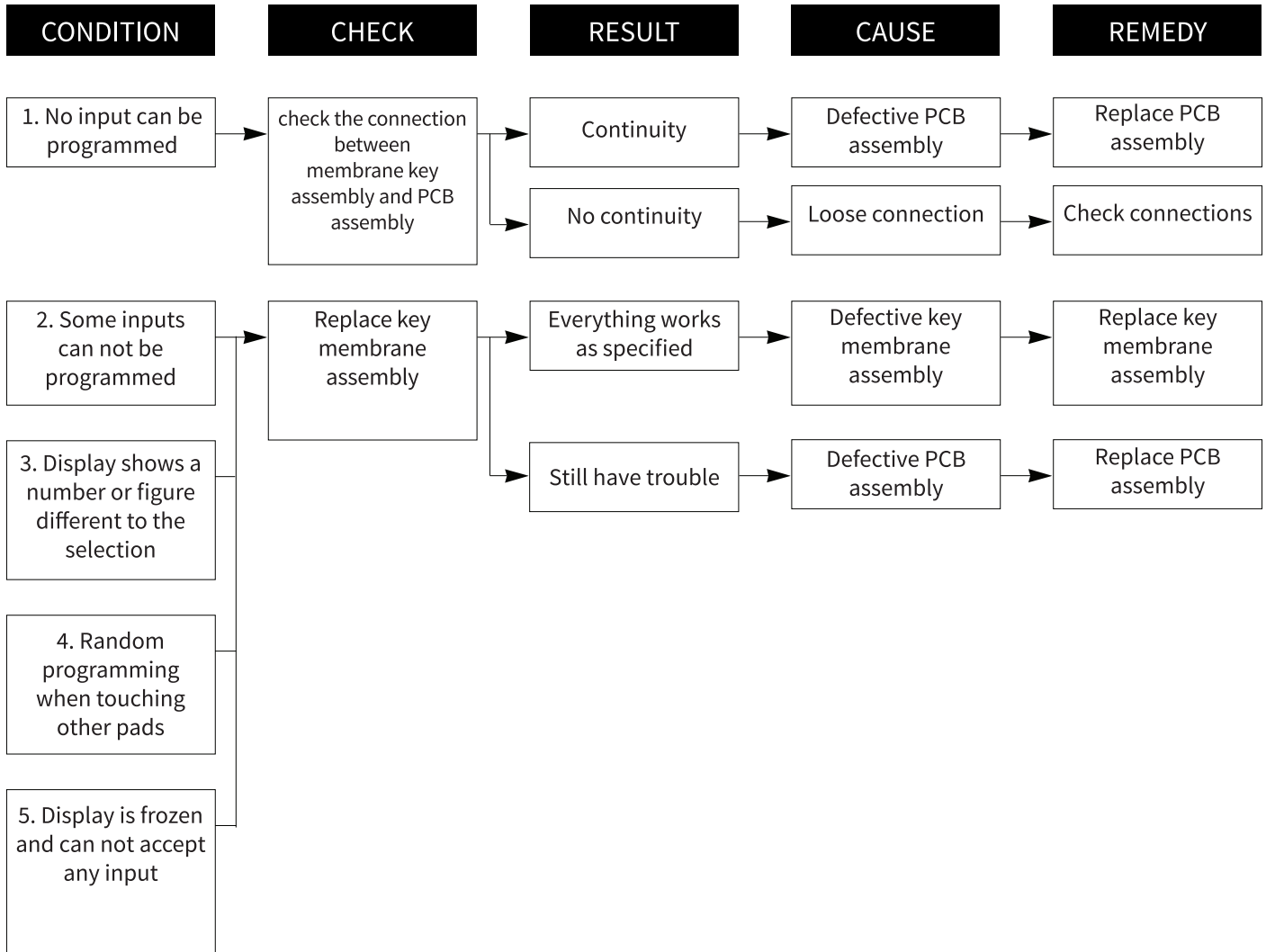
GE : GREEN/YELLOW

TROUBLESHOOTING

CONDITION	CAUSE	REMEDY
Microwave oven does not work	Multiple devices plugged into one power outlet and operating at the same time (overloading)	Avoid using other electrical appliances when using the microwave oven
	Microwave oven plug is not plugged in correctly	Verify if the power plug is correctly plugged to the outlet
Output power is too low	low voltage input	Ensure that the supplied voltage is 220-240V
	Food temperature is too low	This may not be a defect. It is possible that the food should be cooked for longer
Sparks occurring	Using metallic ware and placing them too close to the internal walls	Do not use metallic ware for cooking except where noted in the cooking guide
	Use of ceramic ware trimmed in gold or silver powder	Do not use any type of cookware with metallic trimming
Uneven cooking	Inconsistent intensity of microwave by their characteristics	<ol style="list-style-type: none"> 1. Cover the thinner/smaller parts of the food with aluminium foil 2. Use plastic wrap or lid 3. Pause the cooking process once or twice to stir when cooking soup, milk, etc.
Turntable drags and make noises	The glass plate is not properly positioned or it is overloaded	Distribuite food evenly. Cook smaller portions and/or use lighter cookware

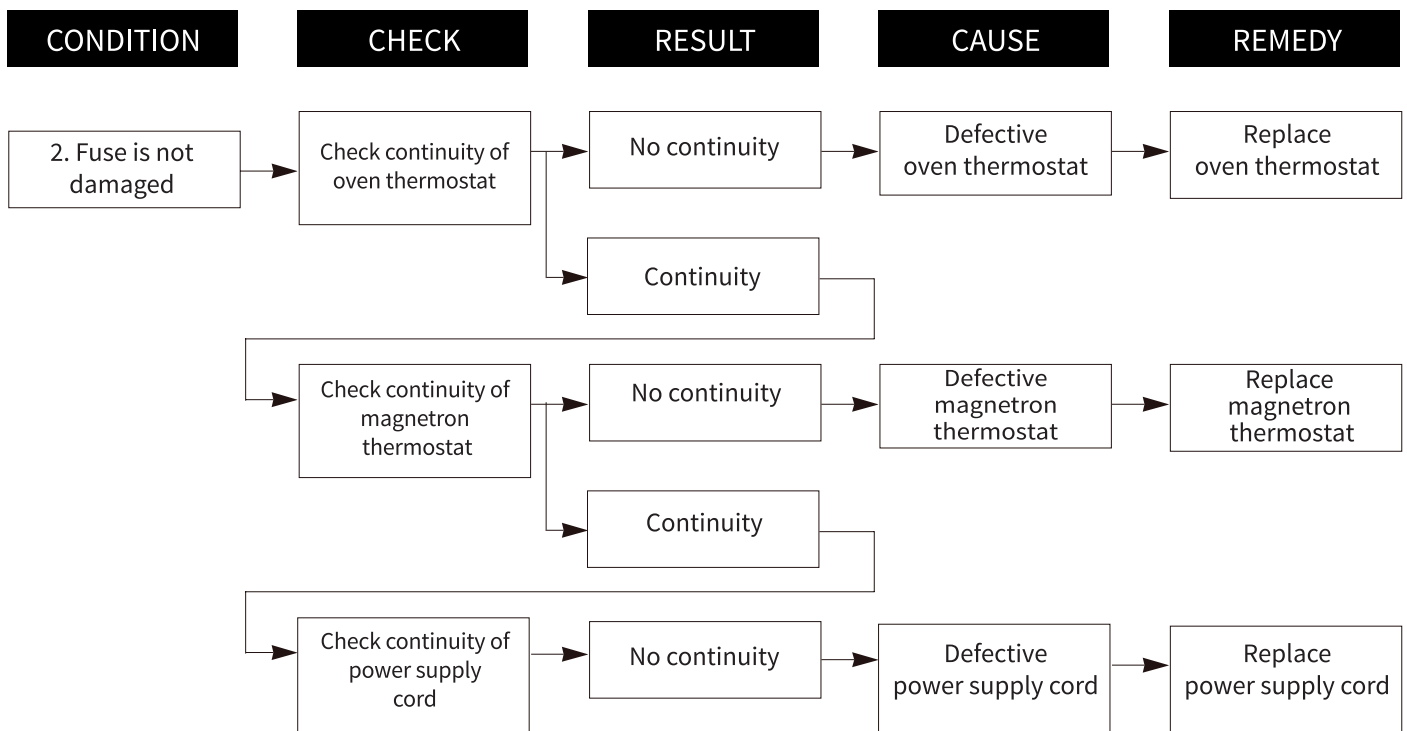
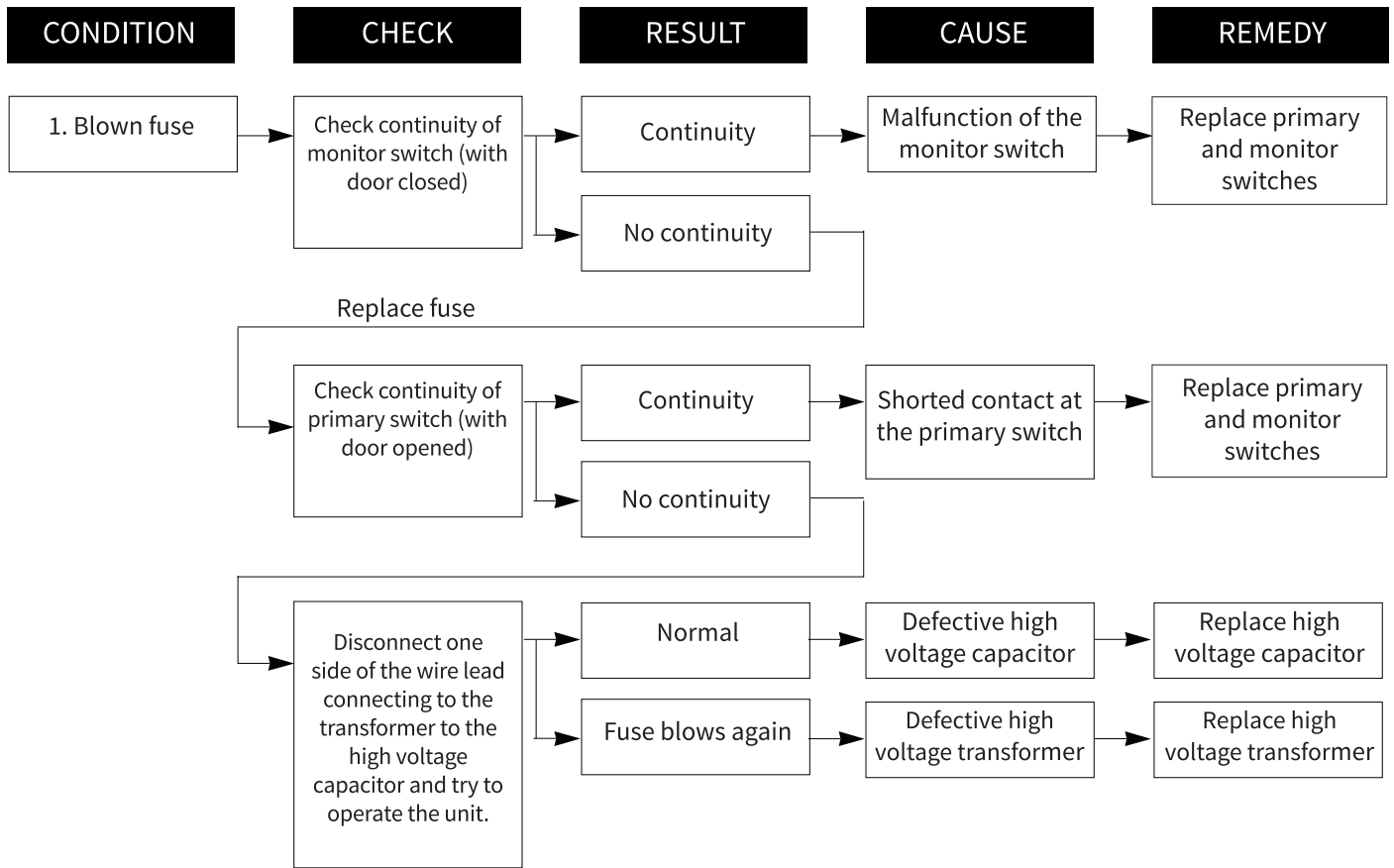
TROUBLESHOOTING

The following display conditions indicate the possibility of a defective control circuit.



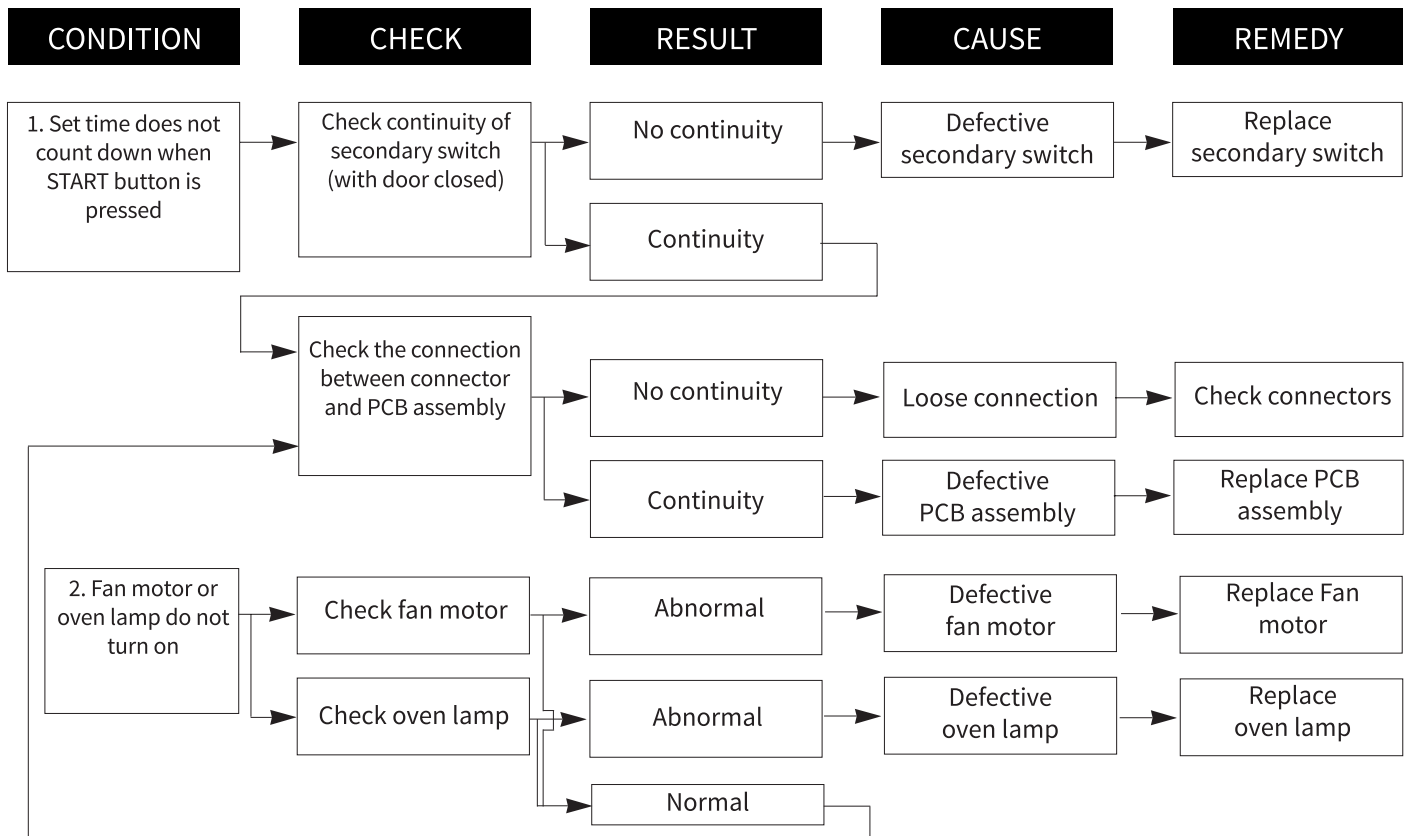
TROUBLESHOOTING

Microwave does not operate. Display is off and inputs cannot be entered.



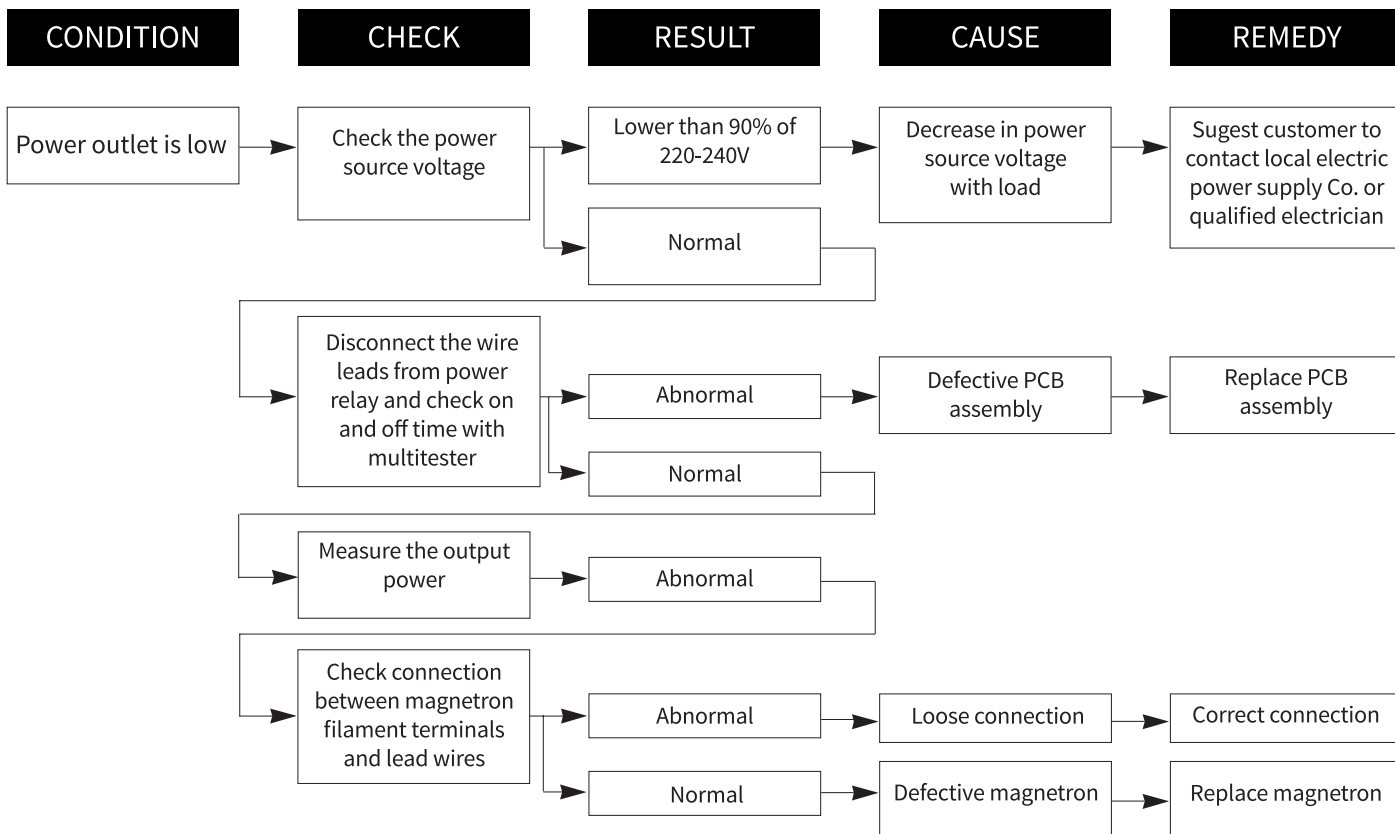
TROUBLESHOOTING

Display is not working, but oven does not start cooking after the desired program and time are set and the START button is pressed.

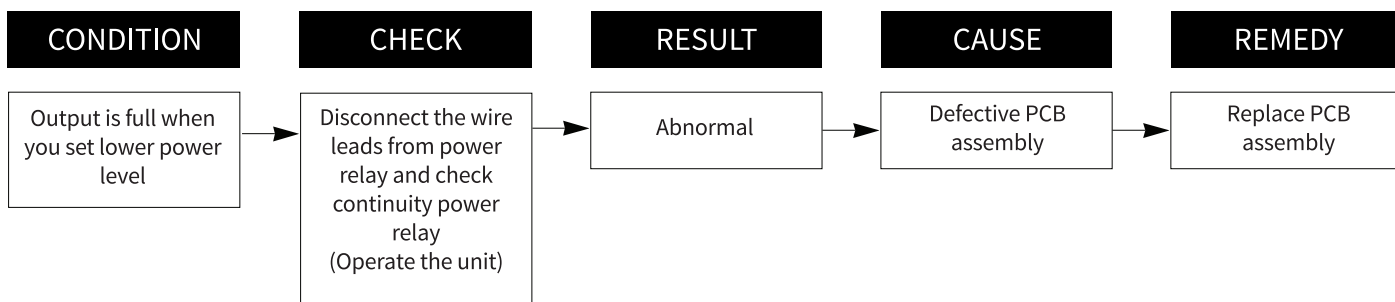


TROUBLESHOOTING

Microwave seems to be in operation but power output is low.



Oven does not cook properly when programmed for the set power level (Operates properly at the highest power setting)



REPAIRING THE MICROWAVE

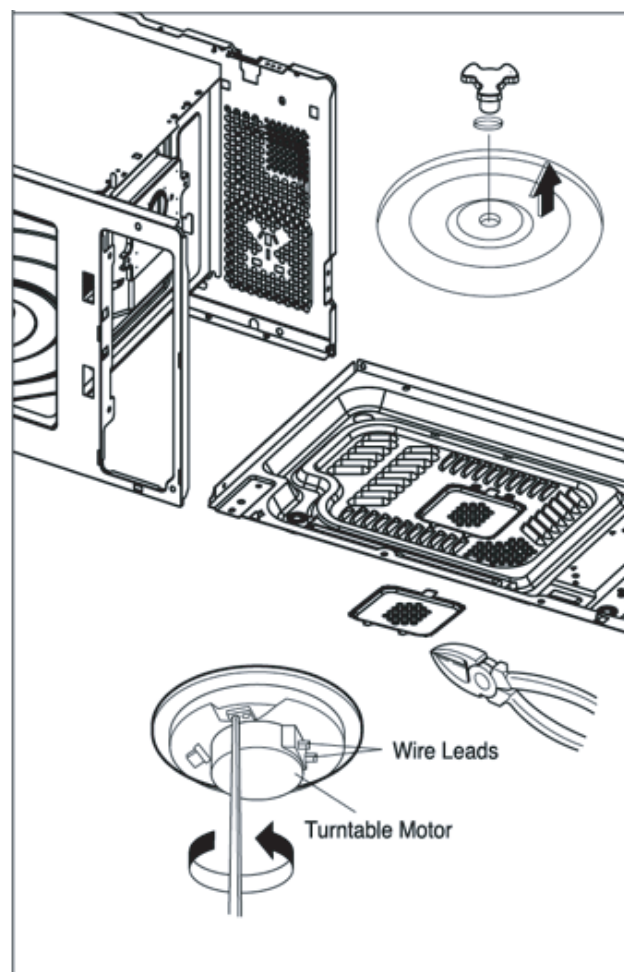
Following the steps bellow will provide you access to the Turntable Motor.

1 – Remove the turntable glass plate.

2 – Carefully remove the turning shaft.

3 – Lay the unit down on its back.

4 – Remove the cover of the turntable motor. Use pliers to pinch the clips that hold the cover in position.



CRITICAL COMPONENTS

1. High-voltage diode

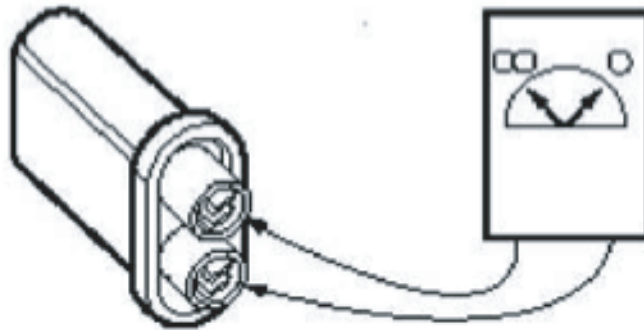
The high-voltage diode can be tested the same way a standard diode is tested.

- The diode should present full continuity in conduction direction.
- The diode should present infinity resistance in blocking direction.

2. High-voltage capacitor

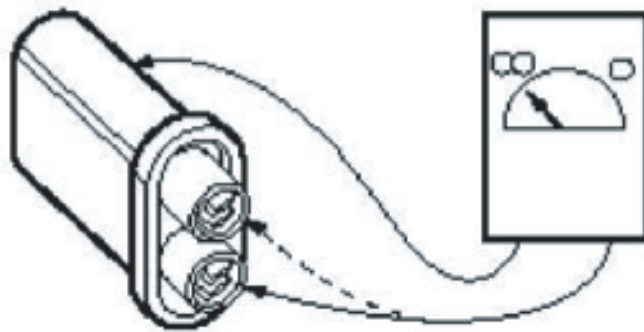
The high-voltage capacitor can be tested by resistance measurement (range 20M Ω)

The resistance between the connector of a capacitor in good working condition presents momentary continuity followed by a resistance increase proportional to the load.



A defective capacitor presents short-circuit (continuity) permanently between its connectors.

The resistance between the connectors and the housing should be infinite.

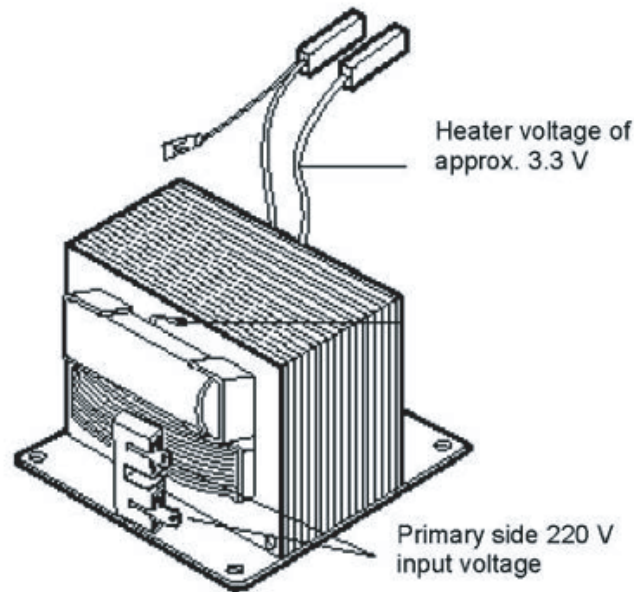


3. High-voltage transformer

This transformer supplies high voltage to the magnetron and also the operating voltage to the heater.

- Input voltage – 220-240V~
- Heater voltage – 3.3V~
- Operating voltage approx. – 2300V~

WARNING: DO NOT ATTEMPT TO MEASURE THE OPERATING VOLTAGE.



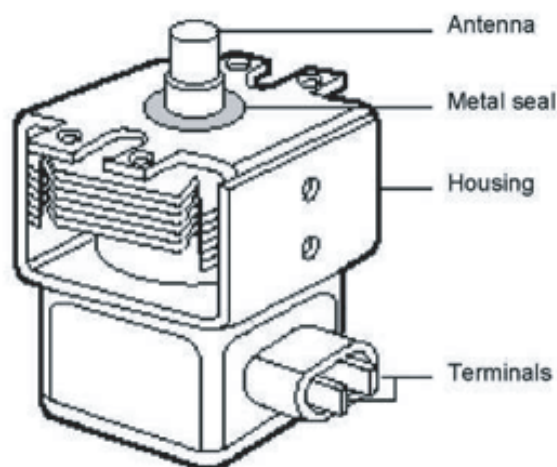
4. Magnetron

The magnetron can be tested by ohmic measurement only. The resistance between the terminals F and FA should be lower than 1Ω .

The resistance between any of the terminals and the housing should be infinite.

NOTE: An internal short-circuit between the cathode and anode cannot be detected by simply measuring the terminals. This short-circuit is only detectable when the appliance is on and high voltage is being supplied to the magnetron. Loud humming noises are also an indication of a defective magnetron.

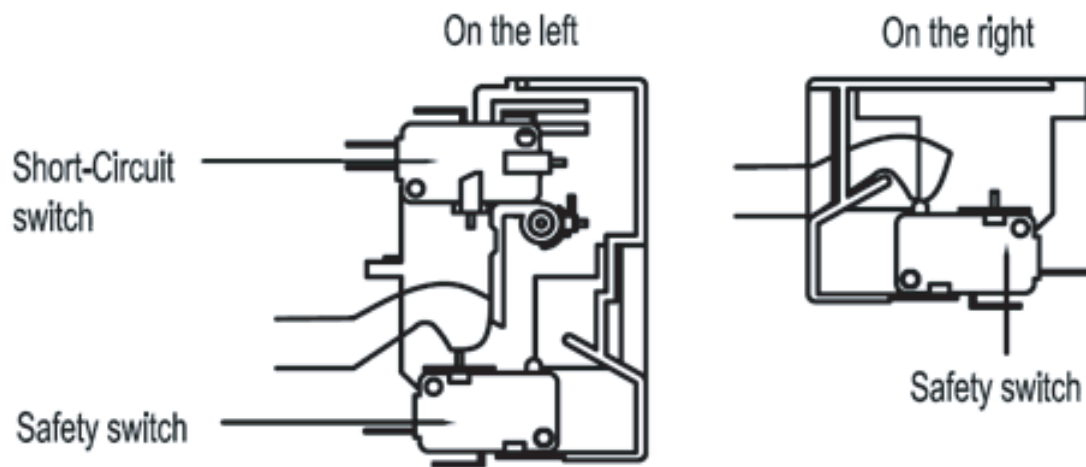
Before installing the magnetron, ensure that the metal seal is placed correctly on top on the magnetron as per image below.



5. Safety Switches

At least 3 safety switches can be found in most microwaves models. These switches are responsible for interrupting the generation of microwave energy as soon as the door is opened.

CRITICAL COMPONENTS



The short-circuit switch works as a safety device in case one of the safety switches doesn't function when required. If the short-circuit switch is activated, it will not be possible to turn the microwave on.

Safety switches operation sequence:

Open door

Safety switch on the right > Safety switch on the left > Short-circuit switch

Close door

Short-circuit switch > Safety switch on the left > Safety switch on the right

CONTACT

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Version 1.1

We are committed to ongoing research and development. Every effort has been made to ensure all information in the service manual is correct at time of going to print. Dimensions should be used as a reference only and actual dimensions should be taken from the physical product.