How a Microwave Operates

The microwave oven produces R F energy in the form of Radio Waves that cycle 2450 million cycles per second. These MICRO-WAVES have 3 main characteristics. They can penetrate certain materials as if it wasn’t even there, materials like glass, mica, paper and some plastics. Secondly, there are materials like metal that the microwaves cannot penetrate and basically just bounce off. And thirdly, there are materials like FOOD that micro-waves do penetrate and basically are absorbed in the material.

The food absorbs the microwaves and the microwaves cause the molecules in the food to move rapidly creating friction between them which creates the heat that cooks the food. The microwaves only penetrate the outer portion of the food but the heat is conducted inwards to cook the food completely.

It is the MAGNETRON in the microwave oven that produces the microwaves. The magnetron needs approx. 4000 Volts to go into oscillation to generate the microwaves. The microwave oven has basically 2 sections, the low voltage section which actually controls the unit and the high voltage section whose components include the magnetron and the components that power up the magnetron. The high voltage transformer or the new style inverter is the component that separates the 2 sides.

The low voltage (control section) takes the 120 volts, passes it through all the safety devices like the interlock switches, thermal fuses and powers up the control device. On the older models the control device was the timer which told the triac to close and send power to the high voltage transformer; on the new units it is the PCB control board that performs that function. The fans, turntable motors and lights are also powered from the low voltage section.

The high voltage section consists of the high voltage transformer, the doubling circuit and the magnetron. The transformer takes the 120 volts from the low voltage section and increases it to approx. 2000 volts and feeds it to the doubling circuit. The doubling circuit consists of the H V Capacitor and the H V diode. The H V diode converts the voltage to DC and the capacitor discharges the 2000 volts and sends it to the magnetron. This adds to the 2000 volts that comes direct from the H V transformer and gives the magnetron the 4000 Volts needed to go into oscillation. On some of the new models this is all done by the inverter board.

The microwaves leave the magnetron through its antenna and goes into the waveguide where they bounce around the metal waveguide and into the oven cavity until they are absorbed by the food. Some models have stirrer blades to direct the microwaves randomly in the cavity to reduce uneven heating. Some models use a rotating tray to reduce uneven heating. The glass tray is used so microwaves can enter the bottom of the food for complete penetration.

Typical Microwave Oven Schematic

Microwave Cooking

1. Microwaves produced by magnetron enter the metal waveguide.
2. Microwaves travel down the waveguide and are stirred up by the stirrer blade as they enter the oven cavity.
3. As they enter the metal oven cavity they bounce around until they are absorbed into food.
4. Microwaves absorbed in food set the molecules in such a frenzied motion that they heat through friction.

Does the food in a microwave oven cook from the inside out? Contrary to popular belief, microwaved food does not cook from the inside out. Instead, the microwaves penetrate the first 1” to 1-1/2” of the food, and heat is then drawn to the center by conduction. The theory of food cooking from the inside out comes from the fact that because the air in the microwave is cool, heat dissipates off the surface of the food quickly.
MICROWAVE OVEN OPERATION

Microwave Control Panel Parts

1. Control Panel
2. Door Choke
3. Door Frame
4. Door Latch Key
5. Door Open Button
6. Door Open Button
7. LCD Display & PCB Control Board
8. Outer Door Glass
9. Outer Door Panel
10. PCB, Power Supply
11. Select Button
12. Touch Pad
13. LCD Holder

Please note that not all parts shown are used in all models of microwaves.

Microwave Oven & Cabinet Parts

1. Body Latch Board
2. Charcoal Filter
3. Cooling Fan Motor
4. Door Open Lever
5. Door Switches
6. Exhaust Blower Motor Assembly
7. Fuse
8. Fuse Holder
9. Glass Tray
10. Grease Filters
11. High Voltage Capacitor
12. High Voltage Diode/Rectifier
13. High Voltage Transformer
14. Magnetron
15. Magnetron High Limit Thermostat
16. Mounting Plate
17. Oven Lamp
18. Rangehood Lamp
19. Thermostats
20. Turntable Motor
21. Turntable Support
22. Vent Louver
23. Waveguide Cover

Please note that not all parts shown are used in all models of microwaves.
All ERP capacitors are built with an internal bleeder resistor and will replace non-bleeder types. The bleeder resistor is a safety device built into the capacitor to discharge the capacitor when the unit is turned off. Capacitors rated at 2100V will replace capacitors rated up to 2500V when used in any home microwave (non-commercial) rated at 1,000 watts or less.

### UNIVERSAL 2100V FOR DOMESTIC APPLICATIONS

Universal High Voltage Capacitors with 1/4” male terminals

<table>
<thead>
<tr>
<th>ERP #</th>
<th>Volt</th>
<th>Value</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Terminal</th>
<th>Kit #</th>
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<td>.75</td>
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<td>2.00”</td>
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### Popular Exact Replacements

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<tr>
<th>ERP #</th>
<th>Volt</th>
<th>Value</th>
<th>Height</th>
<th>Width</th>
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### Terminal Reducer Adapter Kit

Reduces 1/4” terminals to 3/16”. Allows you to substitute universal 1/4” HV capacitors in Panasonic & other applications using 3/16” terminals. Eliminates the need to convert wire terminals.

**ERP #13QBPADAPT** (Kit of 2 adapters)
MICROWAVE DIODES

Order No. 11QBPUNIV
Universal Diode Kit
Length: 3-5/8”
kV: 12  mA: 350

Stock this one diode and replace the majority of diodes commonly used. Diode uses two 1/4” female quick disconnect terminals. Just select correct terminal adapter and attach to correct side of diode.

NOTE: Due to the high resistance of a HV diode, it cannot be tested with just any V.O.M. The V.O.M. must be set on the highest resistance setting, and the V.O.M. must be an analog meter using a 9V battery or have an R x 10m scale. Digital meters reduce the 9V to operate the meter and cannot be used.

Order No. 11QBP0234
Length: 3-3/8”  kV: 12  mA: 350
Terminals:
Banded side= #8 ring
Non-banded= 3/16” female quick disconnect

Fits: GE, Panasonic, Quasar & many other brands

Order No. 11QBP0235
Length: 3-1/2”  kV: 12  mA: 350
Terminals:
Banded side= #8 ring
Non-banded= 1/4” male quick disconnect

Fits: Amana, Whirlpool & many other brands

Order No. 11QBP0236
Length: 3-1/2”  kV: 12  mA: 350
Terminals:
Banded side= #8 ring
Non-banded= 1/4” female quick disconnect

Fits: GE, Electrolux, Emerson & many other brands

Order No. 11QBP0237
Length: 3-5/16”  kV: 12  mA: 350
Terminals:
Banded side= #8 ring
Non-banded= 1/4” female quick disconnect
wrapped in heat shrink tubing

Fits: GE, Goldstar, Maytag & many other brands

Order No. 11QBP0238
Length: 3-5/8”  kV: 12  mA: 350
Terminals:
Banded side= 3/16” female quick disconnect
Non-banded= 1/4” female quick disconnect

Fits: Electrolux, Whirlpool & many other brands

Order No. 11QBP0526
Length: 10-5/8”  kV: 12  mA: 350
Terminals:
Banded side= #8 ring
Non-banded= 2-1/4” female quick disconnect on “Y” lead

Fits: Kenmore, Sanyo & many other brands

Order No. 11QBP0527
Length: 3-5/16”  kV: 12  mA: 350
Terminals:
Banded side= 1/4” female quick disconnect
Non-banded= 1/4” female flag quick disconnect

Fits: Whirlpool & many other brands

Order No. 11QBP0528
Length: 3-5/8”  kV: 12  mA: 350
Terminals:
Banded side= 3/16” female quick disconnect
Non-banded= 1/4” female quick disconnect

Fits: Electrolux, Whirlpool & many other brands

Order No. 11QBP0529
Length: 6”  kV: 12  mA: 350
Terminals:
Banded side= #8 ring
Non-banded= 3/4” female quick disconnect

Fits: Jenn-Air, Maytag & many other brands

Order No. 11QBP0530
Length: 12”  kV: 12  mA: 350
Terminals:
Banded side = #8 ring
Non-banded = 2-1/4” female quick disconnect on “Y” lead

Fits: GE, Goldstar, Electrolux, Kenmore, Sharp & many other brands

Order No. 11QBP0531
Length: 3”  kV: 15  mA: 750
Terminals:
Banded side = 1/4” male quick disconnect
Non-banded = 1/4” male quick disconnect

Fits: GE & many other brands
### MICROWAVE DOOR HANDLES

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Color</th>
<th>Dimensions</th>
<th>Part Number Replaces</th>
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<tbody>
<tr>
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<td>11-3/4&quot; L x 1&quot; W</td>
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<td>25QBP3778</td>
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<td>25QBP8703</td>
<td>Daewoo White</td>
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<tr>
<td>25QBP0513</td>
<td>Goldstar Almond</td>
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<td>25QBP0514</td>
<td>Goldstar Black</td>
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<td>25QBP0521</td>
<td>Goldstar Pewter</td>
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<td>Sanyo Black</td>
<td>8-1/8&quot; L x 1&quot; W</td>
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<td>9-31/32&quot;</td>
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<td>7-3/8&quot;</td>
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MICROWAVE DOOR LATCHKEYS

Order No. 80QBP7500  Daewoo
Plastic - double key
4-3/4" L x 1-9/16" W
Thickness: 3/8"

Order No. 80QBP7512  Goldstar
Plastic - double key
7" L x 1-7/8" W
Thickness: 3/16"

Order No. 80QBP7536  Goldstar
Plastic - single key
2" L x 7/8" W
Thickness: 5/16"

Order No. 80QBP8588  Goldstar
Plastic - double key
6-3/8" L x 2" W
Thickness: 3/8"

Order No. 80QBP8491  Panasonic
Plastic - double key
5-3/16" L x 2" W
Thickness: 3/16"

Order No. 80QBP8680  Panasonic
Plastic - double key
4-7/8" L x 2" W
Thickness: 1/8"

Order No. 80QBP8834  Panasonic
Plastic - double key
5-1/8" L x 1-3/4" W
Thickness: 3/16"

Order No. 80QBP7512  Sharp
Plastic - double key
7-15/16" L x 2-3/16" W
Thickness: 5/16"

Order No. 80QBP2524  Sharp
Plastic - double key
7-5/8" L x 2" W
Thickness: 3/16"

Order No. 80QBP2521  Sharp
Plastic - double key
6-3/4" L x 2-1/16" W
Thickness: 5/8"

Order No. 80QBP2527  Sharp
Plastic - double key
8-7/8" L x 1-7/8" W
Thickness: 9/16"

Order No. 80QBP7538  Sharp
Plastic - double key
7-5/8" L x 2" W
Thickness: 3/16"

Order No. 80QBP2699  Sharp
Plastic - single key (Left)
1-1/16" L x 2-1/8" W
Thickness: 5/8"

Order No. 80QBP2699  Sharp
Plastic - single key (Right)
1-1/16" L x 2-1/8" W
Thickness: 5/8"
MICROWAVE DOOR OPEN BUTTONS

**Panasonic**

- **Order No. 80QBP0827**
  - Black
  - 3-1/4" length
  - 1-5/8" width
  - 1" depth

- **Order No. 80QBP3303**
  - White
  - 3-5/8" length
  - 1-1/4" width
  - 1-5/16" depth

- **Order No. 80QBP5796**
  - White
  - 3-1/8" length
  - 1" width
  - 1-1/4" depth

**Sharp**

- **Order No. 80QBP0705**
  - Black
  - 2-1/8" length
  - 1" width
  - 2-3/4" depth

- **Order No. 80QBP1175**
  - Black
  - 2-7/8" length
  - 15/16" width
  - 1-1/2" depth

- **Order No. 80QBP1727**
  - Almond
  - 2-3/8" length
  - 1-1/8" width
  - 1-9/16" depth

- **Order No. 80QBP3088**
  - Black
  - 2-3/8" length
  - 1-1/8" width
  - 1-5/8" depth

- **Order No. 80QBP3747**
  - Black
  - 2-3/8" length
  - 1-1/8" width
  - 1-9/16" depth

- **Order No. 80QBP3751**
  - White
  - 2-3/8" length
  - 1-1/8" width
  - 5/8" depth

- **Order No. 80QBP4019**
  - Almond
  - 2-3/8" length
  - 1" width
  - 1-5/8" depth

- **Order No. 80QBP7370**
  - Black
  - 3-1/8" length
  - 1-3/8" width
  - 1-5/8" depth

- **Order No. 80QBP7371**
  - White
  - 4-1/8" length
  - 1-3/8" width
  - 1-5/8" depth

**New!**

- **Order No. 80QBP7370**
  - Black
  - 3-1/8" length
  - 1-3/8" width
  - 1-5/8" depth

- **Order No. 80QBP7371**
  - White
  - 4-1/8" length
  - 1-3/8" width
  - 1-5/8" depth

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MICROWAVE DOOR OPEN BUTTONS

Order No. 80QBP7373  Sharp
Black
3-7/16" length
2" width
1-5/8" depth

Order No. 80QBP8658  Sharp
Black
1-11/16" length
1-5/8" width
1-5/8" depth

Order No. 80QBP8668  Sharp
White
3-7/8" length
1-7/8" width
1-3/4" depth

Order No. 80QBP8677  Sharp
Black
4" length
1-5/8" width
1-3/4" depth

Order No. 80QBP8715  Sharp
Stainless Steel
4-3/16" length
1-11/16" width
1-11/16" depth

Order No. 80QBP8746  Sharp
Black
3-7/8" length
1-7/8" width
1-3/4" depth

Order No. 80QBP8743  Sharp
Black
3-7/8" length
1-7/8" width
1-3/4" depth

Order No. 80QBP3483  Panasonic
3-1/4" L
1-1/2" W
1-3/4" D

Order No. 80QBP1432  Sharp
3-1/2" L
1-7/16" W
1-9/16" D

Order No. 80QBP1432  Sharp
4-3/8" L
1-1/8" W
1-3/16" D

Order No. 80QBP7677  Sharp
4-1/2" L
1-3/8" W
1" D

Order No. 80QBP7677  Sharp
4-1/2" L
1-3/8" W
1" D

NEW!

MICROWAVE DOOR OPEN LEVERS

Order No. 80QBP1881  Panasonic
3-1/2" L
1-7/16" W
1-9/16" D

Order No. 80QBP3483  Panasonic
3-1/4" L
1-1/2" W
1-3/4" D

Order No. 80QBP8817  Panasonic
3-3/8" L
2-1/8" W
1-1/2" D

Order No. 80QBP1432  Sharp
3-1/2" L
1-7/16" W
1-9/16" D

Order No. 80QBP3117  Sharp
4-1/2" L
1-3/8" W
1" D
MICROWAVE RACK SUPPORTS

Order No. 80QBP3119
Plastic
13/16" L x 1/2" W x 1" D
Goldstar

Order No. 80QBP1468
White
5" L x 1-7/16" W x 3/4" D
Used on models: R1501, R1506, R1511
Sharp

Order No. 80QBP0102
Plastic
3/4" L x 9/16" W x 15/16" D
Goldstar

Order No. 80QBP8675
Black
5" L x 1-7/16" W x 3/4" D
Used on models: R1500, R1505, R1510
Sharp

Order No. 80QBP0117
Plastic
25/32" L x 15/32" W x 23/32" D
Samsung

Order No. 80QBP8712
Almond
5" L x 1-7/16" W x 3/4" D
Used on models: R1502, R1512
Sharp

Order No. 80QBP3119
Plastic
13/16" L x 1/2" W x 1" D
Goldstar

Order No. 82QBP0102
Plastic
3/4" L x 9/16" W x 15/16" D
Goldstar

Order No. 82QBP0117
Plastic
25/32" L x 15/32" W x 23/32" D
Samsung

Order No. 80QBP1468
White
5" L x 1-7/16" W x 3/4" D
Used on models: R1501, R1506, R1511
Sharp

Order No. 80QBP8675
Black
5" L x 1-7/16" W x 3/4" D
Used on models: R1500, R1505, R1510
Sharp

Order No. 80QBP1496
Latch Spring
1-1/4" length
1/4" diameter
Sharp

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**Fast Blow** fuses are quick acting protectors for use in general circuit applications where high surges or transients are not anticipated.

**Slow Blow** fuses are generally used in circuits subject to high inrush currents or other transient surges. Microwave ovens fall in this category, although some manufacturers equip their units with fast blow fuses. As microwave ovens age, some degradation of components occur increasing current requirements. When older units, originally equipped with fast blow fuses experience nuisance interruptions, it is acceptable to replace with a slow blow fuse of the same amp rating.

### Ceramic Fuses

<table>
<thead>
<tr>
<th>ERP #</th>
<th>Amp</th>
<th>Volt</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>14QBP0247</td>
<td>15</td>
<td>125</td>
<td>Slow blow</td>
</tr>
<tr>
<td>14QBP0248</td>
<td>20</td>
<td>125</td>
<td>Slow blow</td>
</tr>
<tr>
<td>14QBP0251</td>
<td>30</td>
<td>125</td>
<td>Slow blow</td>
</tr>
</tbody>
</table>

**FuseStats** 1” diameter thread

**FuseTrons** 3/4” diameter thread

### Midget Fuses

<table>
<thead>
<tr>
<th>ERP #</th>
<th>Amp</th>
<th>Volt</th>
<th>Length</th>
<th>Dia.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>14QBP15BAF</td>
<td>15</td>
<td>250</td>
<td>1-1/2”</td>
<td>13/32”</td>
<td>BAF/BLF</td>
</tr>
<tr>
<td>14QBP20BAF</td>
<td>20</td>
<td>250</td>
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<td>13/32”</td>
<td>BAF/BLF</td>
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<tr>
<td>14QBP15BAN</td>
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<td>250</td>
<td>1-1/2”</td>
<td>13/32”</td>
<td>BAN/BLN</td>
</tr>
<tr>
<td>14QBP20BAN</td>
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<td>250</td>
<td>1-1/2”</td>
<td>13/32”</td>
<td>BAN/BLN</td>
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<tr>
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<td>FLM/FNM</td>
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<td>14QBP30FLM</td>
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<td>13/32”</td>
<td>FLM/FNM</td>
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<tr>
<td>14QBP20NLM</td>
<td>20</td>
<td>250</td>
<td>2”</td>
<td>9/16”</td>
<td>NLM/NON</td>
</tr>
<tr>
<td>14QBP20NLM</td>
<td>25</td>
<td>250</td>
<td>2”</td>
<td>9/16”</td>
<td>NLM/NON</td>
</tr>
<tr>
<td>14QBP30NLM</td>
<td>30</td>
<td>250</td>
<td>2”</td>
<td>9/16”</td>
<td>NLM/NON</td>
</tr>
<tr>
<td>14QBP10SC</td>
<td>10</td>
<td>250</td>
<td>1-5/16”</td>
<td>13/32”</td>
<td>SC/SLC</td>
</tr>
<tr>
<td>14QBP15SC</td>
<td>15</td>
<td>250</td>
<td>1-5/16”</td>
<td>13/32”</td>
<td>SC/SLC</td>
</tr>
<tr>
<td>14QBP20SC</td>
<td>20</td>
<td>250</td>
<td>1-5/16”</td>
<td>13/32”</td>
<td>SC/SLC</td>
</tr>
</tbody>
</table>

**NEW style short fuse!**

Order No. 14QBP25GSB20MM  
*Replaces Whirlpool W10111684*

Glass Fuse  
.25 amp 250V slow blow  
5 MM dia. x 20 MM long

Order No. 14QBP04CSB20MM  
*Replaces Whirlpool W10121103*

4 amp ceramic slow blow  
5 MM dia. x 20 MM long

Order No. RF-3AMPFB 3 amp  
Order No. RF-5AMPFB 5 amp  
250 V glass fast blow  
5 MM dia. x 32 MM long

**NEW!**

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MIRCOWAVE FUSE HOLDERS

**Order No. 14QBP0100**
20 amp • 250 volt
3/16" male terminals
Holds:
1-1/4" L x 1/4" dia. ceramic/glass fuse

*Used on Panasonic, Quasar*
*Has black molded base*

**Order No. 14QBP0101**
30 amp • 300 volt
1/4" male terminals
Holds:
1-1/4" L x 1/4" dia. ceramic/glass fuse

*Used on Sanyo, Samsung*
*Has gray molded base*

**Order No. 14QBP0105**
20 amp • 300 volt
3/16" male terminals
Holds:
1-1/4" L x 1/4" dia. ceramic/glass fuse

*Used on Goldstar*

---

**FUSE/SWITCH KITS**

Sharp recommends that the monitor switch and CT fuse be replaced together. The following chart shows the complete kit order number as well as the order numbers for the individual components of the kit.

<table>
<thead>
<tr>
<th>ERP Kit #</th>
<th>Fuse #</th>
<th>Switch #</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSWK007</td>
<td>14QBP20CFB</td>
<td>28QBP0499</td>
</tr>
<tr>
<td>FSWK010</td>
<td>14QBP15CSB</td>
<td>28QBP0499</td>
</tr>
<tr>
<td>FSWK012</td>
<td>14QBP20CSB</td>
<td>28QBP0499</td>
</tr>
<tr>
<td>FSWK015</td>
<td>14QBP15CFB</td>
<td>28QBP0499</td>
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<td>FSWK021</td>
<td>14QBP20CSB</td>
<td>28QBP0499</td>
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<table>
<thead>
<tr>
<th>ERP Kit #</th>
<th>Fuse #</th>
<th>Switch #</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSWK020</td>
<td>24QBP13A120H</td>
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<td>FSWK025</td>
<td>24QBP15A120H</td>
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<tr>
<td>FSWK029</td>
<td>24QBP13A120H</td>
<td>28QBP0499</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>ERP Kit #</th>
<th>Fuse #</th>
<th>Switch #</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSWK017</td>
<td>24QBP15A120V</td>
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<tr>
<td>FSWK018</td>
<td>24QBP15A150V</td>
<td>28QBP0499</td>
</tr>
<tr>
<td>FSWK027</td>
<td>24QBP13A120V</td>
<td>28QBP0499</td>
</tr>
</tbody>
</table>
MICROWAVE BODY LATCHBOARDS

Order No. 80QBP1220  
**Panasonic**  
6-9/32" length  
2-27/32" width  
15/16" depth

Order No. 80QBP3931  
**Sharp**  
8-11/32" length  
2-11/16" width  
1-3/8" depth

Order No. 80QBP8240  
**Sharp**  
9-5/8" length  
2-3/8" width  
1-5/16" depth

Order No. 80QBP8337  
**Sharp**  
8-5/8" length  
3-1/4" width  
1-1/4" depth

Order No. 80QBP8750  
**Sharp**  
10-7/8" length  
2-7/16" width  
1-5/8" depth

---

MICROWAVE INVERTERS

**WARNING:** The inverter board looks like a regular printed circuit board, but is actually a high voltage/high current device. This PCB replaces the high voltage transformer, high voltage capacitor and high voltage diode used in ordinary microwaves. It supplies the approximate 4000V DC needed to put the magnetron into oscillation. As with all microwave parts, repairs should only be done by qualified technicians. Do not touch circuit even when off, high voltage current may remain in the circuit. Do not touch aluminum heat sink, it becomes extremely hot. Do not attempt to adjust or repair the inverter board. Only replace it by following the manufacturer's recommended instructions.

Order No. 20QBP0100  
Replaces:  
Panasonic  
A606Y4A00AP

Order No. 20QBP0106  
Replaces: Panasonic  
A606Y6G00AP,  
F606Y6F00AP

---

MICROWAVE INNER DOOR SHEET

Order No. 83QBP1516  
**Universal Door Sheets**  
Cut-to-fit clear plastic sheets with adhesive on one side.  
16"L x 15"W

---

MICROWAVE CORD

Order No. 19QBP0145  
90° plug, round cord  
60° overall length  
Black, 16AWG, 3 wire  
**Universal**
There are approximately five manufacturers of microwave oven magnetrons in the world, and most of these manufacturers are located in the Far East. Anyone manufacturing a microwave oven must purchase the magnetron from one of these manufacturers.

What this means is that many microwave manufacturers use the same or similar magnetrons and that many are interchangeable.

**Magnetron Identification is as easy as 1 - 2 - 3!**

1) **ELECTRICAL CHARACTERISTICS** Match up kV Rating

The electrical characteristics of a magnetron cannot be determined without elaborate testing equipment or the manufacturer's spec sheets. Therefore, you must rely on the research done by us. Look for your industry # below to obtain your kV rating.

<table>
<thead>
<tr>
<th>Industry #</th>
<th>kV</th>
<th>Industry #</th>
<th>kV</th>
<th>Industry #</th>
<th>kV</th>
<th>Industry #</th>
<th>kV</th>
<th>Industry #</th>
<th>kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>0M52</td>
<td>4.1</td>
<td>2M130 UC*</td>
<td>2M163 UC*</td>
<td>4.1</td>
<td>2M209 3.8</td>
<td>2M229 4.1</td>
<td>2M258 4.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0M55</td>
<td>4.1</td>
<td>2M131 UC*</td>
<td>2M164 UC*</td>
<td>4.1</td>
<td>2M210 4.1</td>
<td>2M230 3.8</td>
<td>2M259 UC*</td>
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<td></td>
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<td>2M137 UC*</td>
<td>2M167 UC*</td>
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<td>2M211 3.8</td>
<td>2M231 3.8</td>
<td>2M261 4.35</td>
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<td>0M75</td>
<td>4.1</td>
<td>2M140 4.1</td>
<td>2M170 UC*</td>
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<td>2M213 3.8</td>
<td>2M233 4.1</td>
<td>2M262 UC*</td>
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<td></td>
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<tr>
<td>2M101</td>
<td>4.1</td>
<td>2M141 UC*</td>
<td>2M172 4.1</td>
<td>2M214 4.1</td>
<td>2M234 3.8</td>
<td>2M266 UC*</td>
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<tr>
<td>2M103</td>
<td>4.1</td>
<td>2M142 UC*</td>
<td>2M181 UC*</td>
<td>2M216 3.8</td>
<td>2M236 4.1</td>
<td>2M268 4.35</td>
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<tr>
<td>2M105</td>
<td>4.1</td>
<td>2M150 UC*</td>
<td>2M186 UC*</td>
<td>2M217 4.1</td>
<td>2M238 4.1</td>
<td>2M269 4.35</td>
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<td>2M106</td>
<td>4.1</td>
<td>2M151 UC*</td>
<td>2M188 UC*</td>
<td>2M218 4.1</td>
<td>2M240 4.1</td>
<td>2M282 4.35</td>
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<td>2M152 4.1</td>
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<td>2M219 4.1</td>
<td>2M244 4.35</td>
<td>2M45 UC*</td>
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<td>2M108</td>
<td>4.1</td>
<td>2M153 UC*</td>
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<tr>
<td>2M115 UC*</td>
<td>2M156 UC*</td>
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<tr>
<td>2M115 UC*</td>
<td>2M157 4.1</td>
<td>2M203 UC*</td>
<td>2M222 4.1</td>
<td>2M247 4.35</td>
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<td>2M120 UC*</td>
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<td>2M204 4.1</td>
<td>2M223 3.8</td>
<td>2M248 4.35</td>
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<td></td>
<td></td>
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<tr>
<td>2M121 UC*</td>
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<td>2M205 UC*</td>
<td>2M224 4.1</td>
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<tr>
<td>2M125 UC*</td>
<td>2M161 4.1</td>
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<td>2M71 4.1</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*UC signifies an uncommon kV rating. Magnetrons with uncommon kV ratings cannot be replaced with standard magnetrons. See our model cross reference (on the website) for exact replacement magnetrons.

**PLEASE NOTE:** Use of the wrong kV rated magnetron will result in one or more of the following:
1) Magnetron will not go into oscillation,
2) Magnetron will not function properly or will overheat
3) Magnetron's life will be reduced substantially.
## 2) PHYSICAL CHARACTERISTICS

**SIZE**

Present-day magnetrons come in three different sizes. In most cases, you cannot replace a smaller one with a larger one due to allotted space.

**CONFIGURATION**

Configuration is the relationship between the mounting ears, the vents (airflow) and the filament leads. Manufacturers have designated letter codes for various configurations. The following are the four most popular configurations:

- **E CONFIGURATION**
  - Mounting ears opposite vents and filament leads

- **H CONFIGURATION**
  - Vents and mounting ears in line with filament leads

- **J CONFIGURATION**
  - Vent and mounting ears opposite filament leads

- **K CONFIGURATION**
  - Mounting ears and filament leads opposite vents

**ANTENNA HEIGHT**

Many manufacturers are enlarging the cavity size without increasing the overall size of the microwave. They do this by reducing the size of the waveguide and shortening the antenna height.

**BRACKET**

The most popular bracket is what we refer to as the standard bracket. It has two sets of mounting ears coming off of the opposite sides of the top plate of the magnetron with mounting holes spacing as shown. Some manufacturers are using other style mounting brackets which cannot be replaced with our universal type brackets. See pages 24 through 30 for correct replacement.

## 3) IDENTIFY PART NUMBER

Match the correct magnetron using the chart below of the most popular magnetrons with standard bracket.

<table>
<thead>
<tr>
<th>KV</th>
<th>Watts</th>
<th>Size</th>
<th>Config</th>
<th>Antenna</th>
<th>Part No.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.35</td>
<td>900-1000</td>
<td>Standard</td>
<td>E</td>
<td>30mm</td>
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<td>117</td>
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<tr>
<td>4.35</td>
<td>900-1000</td>
<td>Standard</td>
<td>H</td>
<td>30mm</td>
<td>10QBP1003</td>
<td>117</td>
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<tr>
<td>4.35</td>
<td>900-1000</td>
<td>Standard</td>
<td>J</td>
<td>30mm</td>
<td>10QBP1005</td>
<td>117</td>
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<td>4.35</td>
<td>900-1000</td>
<td>Standard</td>
<td>K</td>
<td>30mm</td>
<td>10QBP1004</td>
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<td>30mm</td>
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<td>E</td>
<td>30mm</td>
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<td>700-850</td>
<td>Compact</td>
<td>H</td>
<td>30mm</td>
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<td>700-850</td>
<td>Compact</td>
<td>J</td>
<td>30mm</td>
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<td>119</td>
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<td>4.1</td>
<td>700-850</td>
<td>Compact</td>
<td>K</td>
<td>30mm</td>
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<td>3.8</td>
<td>500-650</td>
<td>Subcompact</td>
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<td>30mm</td>
<td>10QBP0311</td>
<td>120</td>
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<td>500-650</td>
<td>Subcompact</td>
<td>J</td>
<td>30mm</td>
<td>10QBP0315</td>
<td>120</td>
</tr>
</tbody>
</table>

For magnetrons with special brackets and 20 mm antennas, see magnetron section on pages 24 - 30.

### IMPORTANT NOTES

1. The shape of the antenna cover or the size of the hole in the cover does not affect the operation of the magnetron.
2. There are two standard ways manufacturers connect the filament leads.
   - Fig. 1 Both leads housed in one insulating block
   - Fig. 2 Each lead housed in its own insulating block

In 99% of the applications, the filament leads consist of single wires with a 1/4" quick disconnect female terminal. Therefore, both styles are interchangeable. One percent of the time a plastic block is used, which houses both individual wires. If your replacement magnetron doesn’t accept this block, remove the block and connect individual wires to the proper terminal, making certain terminals do not arc against the cabinet cover.

### CAUTION

When reinstalling a removed magnetron, for whatever reason, make certain woven metal RF gasket is properly seated at base of antenna.
FINDING YOUR MAGNETRON
All magnetrons are sorted in the following order for ease of locating:
1) kV rating: 4.35, 4.1, 3.8
2) Size: Standard, Compact, Subcompact
4) Antenna: 30, 20

Order No. 10QBP1008
Peak Anode Voltage: 4.35 kV
Type: Standard
Configuration: E
Antenna: 30mm
Power Rating: 900-1000 watts

Order No. 10QBP1003
Peak Anode Voltage: 4.35 kV
Type: Standard
Configuration: H
Antenna: 30mm
Power Rating: 900-1000 watts

Order No. 10QBP1003K
Peak Anode Voltage: 4.35 kV
Type: Standard
Configuration: H
Antenna: 30mm
Power Rating: 900-1000 watts
Includes bolt kit #98QBP0928

Order No. 10QBP1000
Peak Anode Voltage: 4.35 kV
Type: Standard
Configuration: J
Antenna: 30mm
Power Rating: 900-1000 watts

Order No. 10QBP1005
Peak Anode Voltage: 4.35 kV
Type: Standard
Configuration: J
Antenna: 30mm
Power Rating: 900-1000 watts

Order No. 10QBP1009
Peak Anode Voltage: 4.35 kV
Type: Standard
Configuration: J
Antenna: 30mm
Power Rating: 1000 watts

FINDING YOUR MAGNETRON

All magnetrons are sorted in the following order for ease of locating:

1) kV rating: 4.35, 4.1, 3.8
2) Size: Standard, Compact, Subcompact
4) Antenna: 30, 20

**Order No. 10QBP1006**
- Peak Anode Voltage: 4.35 kV
- Type: Standard
- Configuration: J
- Antenna: 30mm
- Power Rating: 1000 watts

**Order No. 10QBP1004**
- Peak Anode Voltage: 4.35 kV
- Type: Standard
- Configuration: K
- Antenna: 30mm
- Power Rating: 900-1000 watts

**Order No. 10QBP0235**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: E
- Antenna: 30mm
- Power Rating: 700-850 watts

**Order No. 10QBP0246**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: G
- Antenna: 30mm
- Power Rating: 700-800 watts

**Order No. 10QBP0231**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: H
- Antenna: 30mm
- Power Rating: 700-850 watts

**Order No. 10QBP0229**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: J
- Antenna: 30mm
- Power Rating: 700-850 watts

**Order No. 10QBP0230**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: J
- Antenna: 30mm
- Power Rating: 700-850 watts

**Order No. 10QBP0244**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: J
- Antenna: 30mm
- Power Rating: 700-800 watts

Please note: Replaces 10QBP0229 when stud kit is used.

**Order No. 10QBP0244**
- Peak Anode Voltage: 4.1 kV
- Type: Standard
- Configuration: J
- Antenna: 30mm
- Power Rating: 700-800 watts

Please note: Stud kit included
- Stud kit included
- Stud kit included

Please note: May have thread-in studs instead of permanent studs. May have individual filament insulators in place of dual.

NEW!
FINDING YOUR MAGNETRON

All magnetrons are sorted in the following order for ease of locating:

1) kV rating: 4.35, 4.1, 3.8
2) Size: Standard, Compact, Subcompact
4) Antenna: 30, 20

Order No. 10QBP0275
Peak Anode Voltage: 4.1 kV
Type: Standard
Configuration: J
Antenna: 30mm
Power Rating: 700-800 watts

Order No. 10QBP0259
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: E
Antenna: 30mm
Power Rating: 700-800 watts

Order No. 10QBP0232
Peak Anode Voltage: 4.1 kV
Type: Standard
Configuration: K
Antenna: 30mm
Power Rating: 700-850 watts

Order No. 10QBP0239
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: J
Antenna: 30mm
Power Rating: 700-850 watts

Order No. 10QBP0226
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: H
Antenna: 30mm
Power Rating: 700-850 watts

Order No. 10QBP0249
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: H
Antenna: 30mm
Power Rating: 700-800 watts

Order No. 10QBP0238
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: H
Antenna: 20mm low profile
Power Rating: 700-850 watts

Order No. 10QBP0234
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: J
Antenna: 30mm
Power Rating: 700-800 watts
FINDING YOUR MAGNETRON

All magnetrons are sorted in the following order for ease of locating:

1) kV rating: 4.35, 4.1, 3.8
2) Size: Standard, Compact, Subcompact
4) Antenna: 30, 20

Order No. 10QBP0227
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: J
Antenna: 30mm
Power Rating: 700-800 watts

Order No. 10QBP0228
Peak Anode Voltage: 4.1 kV
Type: Compact
Configuration: J
Antenna: 30mm
Power Rating: 700-800 watts

Order No. 10QBP0230
Peak Anode Voltage: 4.1 kV
Type: Subcompact
Configuration: H
Antenna: 20mm low profile
Power Rating: 500-600 watts

Order No. 10QBP0311
Peak Anode Voltage: 3.8 kV
Type: Subcompact
Configuration: H
Antenna: 30mm
Power Rating: 500-650 watts

Order No. 98QBP0928
Magnetron Mounting Bolts
Pkg. of 4
Size 5mm

Order No. 98QBP0929
Magnetron Mounting Nuts
Pkg. of 4
Size 5mm
1 Magnetron Lookup by Model #
Enter a model number in the QUICK SEARCH box (a) then click on search. If your model comes up, click on it and the magnetron and all the parts we presently have loaded for that model will come up showing the ERP part number. Many will show a picture next to the listing. If we have no record of the model number, “No Results Found” will appear. It is possible that you or your customer may have misread a letter or digit. Put in the beginning letter and number and all models starting with those letters/numbers will appear.

2 Magnetron Lookup by Part #
Enter the OEM's part number or the magnetron's manufacturer's number in the QUICK SEARCH box. Entering the part number or partial part number gives you a list with all possible parts using that number. If your part number comes up, click on it and the ERP magnetron will appear. If your number is not presently in our system, “No Results Found” will appear. It is possible that you or your customer may have misread a letter or digit. Put in the beginning letter and number and all models starting with those letters/numbers will appear.

3 “No Results Found”
If “No Results Found” comes up, contact the ERP research department and we will look it up for you and add it to our web site. 1.800.377.1355

SEE PAGES 1-3 FOR MORE LOOK UP DETAILS!
### Universal Replacement Parts

<table>
<thead>
<tr>
<th>Pic</th>
<th>ERP#</th>
<th>Type</th>
<th>Application</th>
<th>Variety</th>
<th>Amp</th>
<th>Volt</th>
<th>Terminal</th>
<th>Lever Length</th>
<th>Lever Width</th>
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<td>1</td>
<td>28QBP0491</td>
<td>Button</td>
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<td>SPDT NO/NC</td>
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### Exact Replacement Parts

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<tr>
<th>Pic</th>
<th>ERP#</th>
<th>Type</th>
<th>Application</th>
<th>Variety</th>
<th>Amp</th>
<th>Volt</th>
<th>Terminal</th>
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<td>9</td>
<td>28QBP0839</td>
<td>Replaces Panasonic Latch</td>
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</tbody>
</table>
MICROWAVE THERMAL FUSES

Rated for continuous operating. Currents up to 10 amps @ 250VAC and 15 amps @ 120VAC. Open temperature tolerance +0˚, -4˚C. Used in microwave ovens, appliances, personal care products, office machines, portable heaters and industrial equipment. **Package of 4**

<table>
<thead>
<tr>
<th>ERP #</th>
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<tbody>
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<td>22QBP091</td>
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<td>91</td>
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<td>22QBP098</td>
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<tr>
<td>22QBP104</td>
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<td>22QBP240</td>
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Encased in electronically insulated case with 2 male spade terminals for easy field replacement. Rated 10 amp @ 250VAC, 15 amp @ 120VAC. Open temperature tolerance +0˚, -4˚C. **Sold individually**

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
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<tbody>
<tr>
<td>21QBP077</td>
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<td>21QBP152-1</td>
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<td>152</td>
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</tbody>
</table>

**Crimp Connectors**

High temp - fits wire size #22-18AWG. Allows for easy replacement of thermal fuses. Eliminates heat problems when soldering thermal fuses. Just cut out thermal fuse leaving leads intact. Crimp in new thermal fuse with wire crimping tool.

<table>
<thead>
<tr>
<th>Order No. CC18 (pkg of 12)</th>
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</thead>
<tbody>
<tr>
<td>Crimp Connectors</td>
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</table>

Encased thermal fuses - **special design**. Rated 15 amp @ 120VAC. **Sold individually**

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
<th>Terminals</th>
<th>Terminal Style</th>
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<td>23QBP120V</td>
<td>248</td>
<td>120</td>
<td>1/4&quot;</td>
<td>Vertical</td>
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<td>23QBP120H</td>
<td>248</td>
<td>120</td>
<td>1/4&quot;</td>
<td>Horizontal</td>
</tr>
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<td>23QBP140V</td>
<td>284</td>
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<td>Vertical</td>
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<td>23QBP143V</td>
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<td>Vertical</td>
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<td>23QBP150H</td>
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<td>150</td>
<td>1/4&quot;</td>
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<td>23QBP190H-1</td>
<td>374</td>
<td>190</td>
<td>3/16&quot;</td>
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**FYI:** Thermal fuses’ nomenclature for ease of ordering

- Standard prefix for thermal fuses: 21 = Encased
- 22 = Non-encased
- 23 = Special design

**Terminal style**

- V = vertical
- H = horizontal

**Terminal size**

- -1 = 3/16"
- no -1 = 1/4"

Temperature measured in °C

**21QBP121V-1**
Selecting the correct replacement

1. Determine the kV requirement of your magnetron by using the chart on the right.

2. Match your magnetron’s kV requirement to the HV transformers on this page. Carefully check dimensions to make sure replacement will fit in allowable space.

Order No. 16QBP0293

Universal
4.1 kV output (after doubling circuit)
700-850 watts, 3.3 volt, 300mA
Horizontal stack type
3” H x 4-1/8” W x 3-7/8” D

Installation instructions (see wiring diagram on the next page)

1. Place transformer in position so that the label on top of the unit is correctly oriented and readable.
2. The two terminals located on the lower windings are the primary terminals for 120V line input.
3. The single terminal on the upper windings is the high voltage secondary terminal and is connected to the low side of the capacitor.
4. The flying lead located at the front of the unit is connected to the high side of the capacitor. The flying lead wire with the insulated terminal is connected to the “FA” terminal of the magnetron.

Order No. 16QBP0296

Universal
4.35 kV output (after doubling circuit)
900-1000 watts, 3.2 volt, 350mA
Horizontal stack type
3-7/8” W x 5-1/4” D x 3-1/2” H

Installation instructions (see wiring diagram on the next page)

1. Place transformer in position so that the label on top of the unit is correctly oriented and readable.
2. The two terminals located on the lower windings are the primary terminals for 120V line input.
3. The single red wire off the backside of the upper windings is the high voltage secondary lead and is connected to the low side of the capacitor.
4. The two leads connected to the insulated terminal block are the filament leads and are connected to the filament terminal coming off of the magnetron. The single wire side is connected to the “FA” terminal. The flying lead coming out of the dual filament terminal block is connected to the high side of the capacitor (diode side).

Magnetron Requirements for Universal Transformers

Match up the magnetron requirements and kV ratings in this chart to the part numbers on this page. Please note that using the wrong kV rated transformer will result in a magnetron malfunction such as …
- no oscillation, overheating, and substantially reduced magnetron life.
- UC is an uncommon kV rating. Magnets with uncommon kV ratings cannot use a universal transformer.
- There is no universal replacement for a 3.8kV rated magnetron.
Wiring Instructions
For Universal Transformers

Half-wave doubler L-C stabilized power supply circuit for typical microwave oven

Wiring diagram for typical microwave oven power supply

T1A  Transformer primary  C1  Capacitor
T1B  Transformer HV windings  D1  Diode
T1C  Transformer filament  V1  Magnatron tube

EXACT REPLACEMENT HV TRANSFORMERS

Order No. 16QBP4274  Sharp
120 volt Horizontal stack type

Order No. 16QBP4360  Sharp
120 volt Horizontal stack type

Order No. 16QBP4374  Sharp
120 volt Horizontal stack type

MICROWAVE THERMISTORS, SENSORS, VARISTORS

Order No. 17QBP0642  Sharp

Order No. 17QBP2172  Sharp

Order No. 17QBP2971  Sharp

Order No. 17QBP0260  Universal
Voltage: 120
Applied Voltage: 130
Clamping Voltage: 340
Amps: 4500
Energy: 38 joules/2MS
Applications include hi-limit cutoff thermostats for magnetrons and also as oven cavity safety thermostats. On an old thermostat, “N” & “S” denote temperature in °C, “L” denotes temperature in °F.

### 1/4" Horizontal Terminal Series
50° differential, tolerance: open = -7°F, close ±12°F. Mounting holes are 25mm center to center. 15 amp, 120 Volt.

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>18QBP088H</td>
<td>190</td>
<td>88</td>
</tr>
<tr>
<td>18QBP093H</td>
<td>199</td>
<td>93</td>
</tr>
<tr>
<td>18QBP099H</td>
<td>210</td>
<td>99</td>
</tr>
<tr>
<td>18QBP105H-1</td>
<td>221</td>
<td>105</td>
</tr>
<tr>
<td>18QBP109H-1</td>
<td>230</td>
<td>110</td>
</tr>
<tr>
<td>18QBP115H-1</td>
<td>239</td>
<td>115</td>
</tr>
<tr>
<td>18QBP127H</td>
<td>261</td>
<td>127</td>
</tr>
<tr>
<td>18QBP138H</td>
<td>280</td>
<td>138</td>
</tr>
<tr>
<td>18QBP145H</td>
<td>293</td>
<td>145</td>
</tr>
<tr>
<td>18QBP149H</td>
<td>300</td>
<td>149</td>
</tr>
<tr>
<td>18QBP160H</td>
<td>320</td>
<td>160</td>
</tr>
</tbody>
</table>

### 1/4" Vertical Terminal Series
Mounting holes are 25mm center to center. 15 amp, 120 Volt.

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>18QBP060V</td>
<td>140</td>
<td>60</td>
</tr>
<tr>
<td>18QBP077V</td>
<td>171</td>
<td>77</td>
</tr>
<tr>
<td>18QBP090V</td>
<td>194</td>
<td>90</td>
</tr>
<tr>
<td>18QBP094V</td>
<td>201</td>
<td>94</td>
</tr>
<tr>
<td>18QBP122V</td>
<td>252</td>
<td>122</td>
</tr>
<tr>
<td>18QBP135V</td>
<td>275</td>
<td>135</td>
</tr>
<tr>
<td>18QBP145V</td>
<td>293</td>
<td>145</td>
</tr>
</tbody>
</table>

### 3/16" Horizontal Terminal Series
Mounting holes are 25mm center to center. 15 amp, 120 Volt.

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>18QBP105H</td>
<td>221</td>
<td>105</td>
</tr>
<tr>
<td>18QBP110H</td>
<td>230</td>
<td>110</td>
</tr>
<tr>
<td>18QBP115H-1</td>
<td>239</td>
<td>115</td>
</tr>
<tr>
<td>18QBP135H-1</td>
<td>275</td>
<td>135</td>
</tr>
</tbody>
</table>

### 3/16" Vertical Terminal Series
Mounting holes are 25mm center to center. 15 amp, 120 Volt.

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>18QBP090V-1</td>
<td>194</td>
<td>90</td>
</tr>
<tr>
<td>18QBP110V-1</td>
<td>230</td>
<td>110</td>
</tr>
<tr>
<td>18QBP122V-1</td>
<td>252</td>
<td>122</td>
</tr>
<tr>
<td>18QBP135V-1</td>
<td>275</td>
<td>135</td>
</tr>
</tbody>
</table>

### Special Wide Mount Bracket Horizontal
Mounting holes are 30mm center to center. 1/4" terminals, 15 amp, 120 Volt.

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>18QBP120H-W</td>
<td>248</td>
<td>120</td>
</tr>
<tr>
<td>18QBP150H-W</td>
<td>302</td>
<td>150</td>
</tr>
</tbody>
</table>

### Special Wide Mount Bracket Vertical
Mounting holes are 30mm center to center. 1/4" terminals, 15 amp, 120 Volt.

<table>
<thead>
<tr>
<th>ERP #</th>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>18QBP180V-1W</td>
<td>356</td>
<td>180</td>
</tr>
</tbody>
</table>

**FYI:** Thermostats’ nomenclature for ease of ordering

- Standard prefix for thermostats
- Terminal style: V = vertical, H = horizontal
- 18QBP150H-1W
- Temperature measured in °C
- Special Wide Mount Bracket
- 1/4" terminals
- 3/16" terminals
<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP8695</td>
<td><strong>Emerson</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP8933</td>
<td><strong>Emerson</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-5/16&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 9/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP9011</td>
<td><strong>GE</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 2&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Replaces GE #W806X10138</td>
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</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP1781</td>
<td><strong>Goldstar</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-3/8&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 5/8&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP4039</td>
<td><strong>Goldstar</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-3/8&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP8676</td>
<td><strong>Goldstar</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 19/32&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP2193</td>
<td><strong>Panasonic</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot;D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 15/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP8786</td>
<td><strong>Panasonic</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-5/16&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 9/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP3112</td>
<td><strong>Sharp</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-9/16&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 13/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP8645</td>
<td><strong>Samsung</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot;D</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 3/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP0571</td>
<td><strong>Sharp</strong></td>
</tr>
<tr>
<td>Drive type: Square</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 15/16&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; Double Flat</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 7/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Microwave Turntable Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>80QBP0886</td>
<td><strong>Sharp</strong></td>
</tr>
<tr>
<td>Drive type: Tri-Wing</td>
<td></td>
</tr>
<tr>
<td>Drive dia.: 1-3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Shaft style: 1/4&quot; X</td>
<td></td>
</tr>
<tr>
<td>Shaft length: 17/32&quot;</td>
<td></td>
</tr>
</tbody>
</table>
Microwave Turntable Motor Cross Reference is on the web!

Go to www.erparts.com

Follow these easy steps to successfully find your turntable motor using the QUICK SEARCH feature at the top of the home page or by using the CROSS REFERENCE button along the left side in the navigation bar.

**STEP 1**
In the QUICK SEARCH box or on the CROSS REFERENCE page, type in your turntable number, manufacturing number, or the microwave model number, and then click SEARCH.

**STEP 2**
By typing in the number or part of the number, gives you a list with possible MODEL #, ERP#, OEM PART #, and DESCRIPIONS. Now move your cursor over the correct part # in one of the columns and click on it.

**STEP 3**
Once selection has been made, you will see your part or model with parts listed. Now just click on your part name (a) to get even more information on that part.

If "No Results Found" or if you do not see the item you are searching for, call the ERP research department and we will look it up and add it to our online cross reference.

SEE PAGES 1-3 FOR MORE LOOK UP DETAILS!
# Microwave Turntable/Stirrer Motors

## Shaft Type

### OEM: Daewoo
- **ERP#**: 15QBP4172
- **Volts**: 120
- **Shaft Type**: A
- **Shaft Length**: 9/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 6
- **Watts**: 3

### OEM: Emerson
- **ERP#**: 15QBP0685
- **Volts**: 120
- **Shaft Type**: A
- **Shaft Length**: 7/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 2.5/3
- **Watts**: 2.5/2

- **ERP#**: 15QBP4214
- **Volts**: 120
- **Shaft Type**: B
- **Shaft Length**: 1/2"
- **Shaft Dia.**: 0.275"
- **RPM**: 4/4.8
- **Watts**: 4

### OEM: GE
- **ERP#**: 15QBP1017
- **Volts**: 21
- **Shaft Type**: B
- **Shaft Length**: 9/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 2.5/3
- **Watts**: 3/2.5

- **ERP#**: 15QBP3932
- **Volts**: 21
- **Shaft Type**: B
- **Shaft Length**: 5/8"
- **Shaft Dia.**: 0.275"
- **RPM**: 5/6
- **Watts**: 3

### OEM: Goldstar
- **ERP#**: 15QBP0111
- **Volts**: 120
- **Shaft Type**: B
- **Shaft Length**: 9/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 3
- **Watts**: 2.8

- **ERP#**: 15QBP2222
- **Volts**: 21
- **Shaft Type**: B
- **Shaft Length**: 7/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 2.5/3
- **Watts**: 3

- **ERP#**: 15QBP2375
- **Volts**: 21
- **Shaft Type**: E
- **Shaft Length**: 5/8"
- **Shaft Dia.**: 5/16" SQ
- **RPM**: 29.1/34.9
- **Watts**: 3/2.5

- **ERP#**: 15QBP3596
- **Volts**: 120
- **Shaft Type**: E
- **Shaft Length**: 7/8"
- **Shaft Dia.**: 3/16" SQ
- **RPM**: 34.9
- **Watts**: 2.8

- **ERP#**: 15QBP4102
- **Volts**: 120
- **Shaft Type**: B
- **Shaft Length**: 11/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 3
- **Watts**: 2.8

- **ERP#**: 15QBP4204
- **Volts**: 120
- **Shaft Type**: B
- **Shaft Length**: 7/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 6
- **Watts**: 2.8

### OEM: Panasonic
- **ERP#**: 15QBP0851
- **Volts**: 120
- **Shaft Type**: A
- **Shaft Length**: 5/8"
- **Shaft Dia.**: 0.275"
- **RPM**: 5/6
- **Watts**: 3/2.5

- **ERP#**: 15QBP1199
- **Volts**: 120
- **Shaft Type**: B
- **Shaft Length**: 7/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 3
- **Watts**: 3

- **ERP#**: 15QBP4186
- **Volts**: 120
- **Shaft Type**: A
- **Shaft Length**: 1/2"
- **Shaft Dia.**: 0.275"
- **RPM**: 6
- **Watts**: 4

### OEM: Samsung
- **ERP#**: 15QBP1017
- **Volts**: 21
- **Shaft Type**: B
- **Shaft Length**: 9/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 2.5/3
- **Watts**: 3/2.5

- **ERP#**: 15QBP3932
- **Volts**: 21
- **Shaft Type**: B
- **Shaft Length**: 9/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 5/6
- **Watts**: 3/2.5

### OEM: Sharp
- **ERP#**: 15QBP0851
- **Volts**: 120
- **Shaft Type**: C
- **Shaft Length**: 3/8"
- **Shaft Dia.**: 0.275"
- **RPM**: 3/2.5
- **Watts**: 3

- **ERP#**: 15QBP1199
- **Volts**: 120
- **Shaft Type**: B
- **Shaft Length**: 17/32"
- **Shaft Dia.**: 0.312"
- **RPM**: 3.3/2.8
- **Watts**: 3.3/2.8

- **ERP#**: 15QBP3932
- **Volts**: 120
- **Shaft Type**: C
- **Shaft Length**: 3/8"
- **Shaft Dia.**: 0.275"
- **RPM**: 29.1/34.9
- **Watts**: 2.8

- **ERP#**: 15QBP4184
- **Volts**: 120
- **Shaft Type**: D
- **Shaft Length**: 5/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 3
- **Watts**: 2

- **ERP#**: 15QBP4185
- **Volts**: 120
- **Shaft Type**: A
- **Shaft Length**: 7/16"
- **Shaft Dia.**: 0.275"
- **RPM**: 6
- **Watts**: 2

**Order No. 15QBP4173**

- **Volts**: 120 volts
- **RPM**: 29.2 RPM
- **Watts**: 2.5 watts
- **Shaft Length**: 13/16"
- **Shaft Diameter**: 0.222"

---

**PLEASE NOTE:**

Shaft type shown engages a recess.
MICROWAVE TURNTABLE SUPPORTS

Order No. 80QBP3136  
Daewoo  
Roller Ring  
Plastic  
7-1/2" dia.  
1/2" roller dia.

Order No. 80QBP3566  
Daewoo  
Roller Ring  
Plastic  
9-3/16" dia.  
9/16" roller dia.

Order No. 80QBP8848  
Daewoo  
Roller Ring  
Plastic  
8-3/4" dia.  
9/16" roller dia.

Order No. 80QBP1602  
Goldstar  
Roller Ring  
Plastic  
7-1/4" dia.  
11/16" roller dia.

Order No. 80QBP1933  
Goldstar  
Roller Ring  
Plastic  
8-11/16" dia.  
11/16" roller dia.

Order No. 80QBP2142  
Goldstar  
Tri-wing  
Plastic shaft  
5-3/8" ring radius  
9/16" roller dia.  
1/4" D roller type  
11/16" shaft length

Order No. 80QBP4011  
Goldstar  
Tri-wing  
Plastic shaft  
3-15/16" ring radius  
9/16" roller dia.  
1/4" D roller type  
9/16" shaft length

Order No. 80QBP7160  
Goldstar  
Roller Ring  
Plastic  
9-7/8" dia.  
9/16" roller dia.

Order No. 80QBP7161  
Goldstar  
Tri-wing  
Plastic shaft  
4-5/8" ring radius  
9/16" roller dia.  
1/4" D roller type  
1/2" shaft length

Order No. 80QBP8331  
Goldstar  
Roller Ring  
Plastic  
11-3/16" dia.  
5/8" roller dia.

Order No. 80QBP8609  
Goldstar  
Roller Ring  
Plastic  
9-1/2" dia.  
1/2" roller dia.

Order No. 80QBP8701  
Goldstar  
Tri-wing  
Plastic shaft  
4-3/4" ring radius  
11/16" roller dia.  
1/4" D roller type  
11/16" shaft length

Order No. 80QBP8717  
Goldstar  
Tri-wing  
Plastic shaft  
5-1/2" ring radius  
9/16" roller dia.  
1/4" D roller type  
21/32" shaft length

Order No. 80QBP8723  
Goldstar  
Tri-wing  
Plastic shaft  
4-3/8" ring radius  
9/16" roller dia.  
1/4" D roller type  
9/16" shaft length

Order No. 80QBP8819  
Goldstar  
Roller Ring  
Plastic  
9-5/8" dia.  
5/8" roller dia.
MICROWAVE TURNTABLE SUPPORTS

**Goldstar**

Order No. 80QBP8887

- Tri-wing
- Plastic shaft
- 4-3/4" ring radius
- 9/16" roller diameter
- 6/32" D roller type
- 3/4" shaft length

Order No. 80QBP8929

- Tri-wing
- Plastic shaft
- 4-3/4" ring radius
- 9/16" roller diameter
- 9/32" D roller type
- 13/32" shaft length

Order No. 80QBP0828

- Roller Ring
- Plastic (Almond)
- 7-1/2" diameter
- 9/16" roller diameter

**Panasonic**

Order No. 80QBP2222

- Roller Ring
- Plastic
- 10-3/16" diameter
- 9/16" roller diameter

Order No. 80QBP7122

- Roller Ring
- Plastic
- 10-1/2" diameter
- 5/8" roller diameter

Order No. 80QBP7139

- Roller Ring
- Plastic
- 7-1/4" diameter
- 9/16" roller diameter

Order No. 80QBP8654

- Roller Ring
- Plastic
- 9-15/16" diameter
- 9/16" roller diameter

Order No. 80QBP3199

- Tri-wing
- Plastic shaft
- 4-1/4" ring radius
- 3/4" roller diameter
- Large D
- 9/16" shaft length

Order No. 80QBP8598

- Roller Ring
- Plastic
- 7-3/4" diameter
- 9/16" roller diameter

**Samsung**

Order No. 80QBP1021

- Tri-wing
- Plastic shaft
- 4-13/16" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 5/8" shaft length

Order No. 80QBP1110

- Tri-wing
- Plastic shaft
- 4-13/16" ring radius
- 9/16" roller diameter
- 5/16" X roller type
- 1/2" shaft length

Order No. 80QBP1217

- Tri-wing
- Plastic shaft
- 4-3/8" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 1/2" shaft length

Order No. 80QBP1121

- Tri-wing
- Plastic shaft
- 4-3/8" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 1/2" shaft length

Order No. 80QBP1217

- Tri-wing
- Plastic shaft
- 4-3/8" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 1/2" shaft length

**Sharp**

Order No. 80QBP1021

- Tri-wing
- Plastic shaft
- 4-13/16" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 5/8" shaft length

Order No. 80QBP1110

- Tri-wing
- Plastic shaft
- 4-13/16" ring radius
- 9/16" roller diameter
- 5/16" X roller type
- 1/2" shaft length

Order No. 80QBP1217

- Tri-wing
- Plastic shaft
- 4-3/8" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 1/2" shaft length

Order No. 80QBP1110

- Tri-wing
- Plastic shaft
- 4-13/16" ring radius
- 9/16" roller diameter
- 5/16" X roller type
- 1/2" shaft length
MICROWAVE TURNTABLE SUPPORTS

**Order No. 80QBP2831**
- **Sharp**
- Tri-wing
- Metal shaft
- 5-3/8" ring radius
- 11/16" roller diameter
- 5/16" Sq. roller type

**Order No. 80QBP2991**
- **Sharp**
- Roller Ring
- Plastic
- 8-1/4" diameter
- 9/16" roller diameter

**Order No. 80QBP3122**
- **Sharp**
- Tri-wing
- Plastic shaft
- 4-13/16" ring radius
- 5/8" roller diameter
- 1/4" X roller type
- 5/8" shaft length

**Order No. 80QBP3142**
- **Sharp**
- Tri-wing
- Metal shaft
- 6-1/4" ring radius
- 15/16" roller diameter

**Order No. 80QBP3644**
- **Sharp**
- Tri-wing
- Plastic shaft
- 4-1/2" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 1/2" shaft length

**Order No. 80QBP3689**
- **Sharp**
- Tri-wing
- Metal shaft
- 5-3/16" ring radius
- 5/8" roller diameter
- 5/16" Sq. roller type

**Order No. 80QBP8541**
- **Sharp**
- Tri-wing
- Plastic shaft
- 4-7/16" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 5/8" shaft length

**Order No. 80QBP8633**
- **Sharp**
- Tri-wing
- Plastic shaft
- 4-7/16" ring radius
- 9/16" roller diameter
- 1/4" X roller type
- 5/8" shaft length
# Microwave Turntable Trays

**Tray Drives**

- **T1**
- **T3**
- **T4**
- **T5**
- **T7**
- **T8**
- **T10**
- **T11**
- **T12**
- **T15**
- **T17**
- **T18**
- **T19**
- **T21**
- **T23**

*Please Note: Tray drives shown with cross-hatch engage a recess having the outline indicated in the bottom center of the tray.*

<table>
<thead>
<tr>
<th>Dia.</th>
<th>ERP#</th>
<th>Drive</th>
<th>Track ID</th>
<th>Track OD</th>
<th>Ridge ID</th>
<th>Ridge OD</th>
<th>Description</th>
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<tbody>
<tr>
<td>9-5/8&quot;</td>
<td>30QBP2525</td>
<td>T4</td>
<td>6-1/2&quot;</td>
<td>7-5/8&quot;</td>
<td>7-5/8&quot;</td>
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<td>Has 3 small rectangular feet, 6-7/8&quot; apart</td>
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<tr>
<td>9-5/8&quot;</td>
<td>30QBP4117</td>
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<td>6-3/4&quot;</td>
<td>7-1/16&quot;</td>
<td>7-1/16&quot;</td>
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<td>Has 3 small rectangular feet, 6-7/8&quot; apart</td>
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<tr>
<td>10&quot;</td>
<td>30QBP4110</td>
<td>T2T</td>
<td>7-1/2&quot;</td>
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<tr>
<td>10-1/16&quot;</td>
<td>30QBP4143</td>
<td>T23</td>
<td>6-15/16&quot;</td>
<td>9-1/8&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet 1/4&quot; high, 5-3/16&quot; center - center</td>
</tr>
<tr>
<td>10-1/4&quot;</td>
<td>30QBP0568</td>
<td>T5</td>
<td>7&quot;</td>
<td>8&quot;</td>
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<td></td>
<td>Has 6 feet, 3/32&quot; high on 8-3/4&quot; circle</td>
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<tr>
<td>10-1/4&quot;</td>
<td>30QBP1252</td>
<td>T23</td>
<td>6-7/16&quot;</td>
<td>7-9/16&quot;</td>
<td>7-9/16&quot;</td>
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<td>Has 3 small rectangular feet on ridge</td>
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<tr>
<td>10-9/16&quot;</td>
<td>30QBP4132</td>
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<td>6-15/16&quot;</td>
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<tr>
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<td>30QBP2278</td>
<td>T23</td>
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<td>9&quot;</td>
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<td></td>
<td>Has 3 feet, 5-1/4&quot; apart, 3/16&quot; high</td>
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<tr>
<td>10-5/8&quot;</td>
<td>30QBP3019</td>
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<td>8-5/8&quot;</td>
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<td>Has 3 feet, 5-1/4&quot; apart</td>
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<tr>
<td>10-3/4&quot;</td>
<td>30QBP0057</td>
<td>T3</td>
<td>8&quot;</td>
<td>9&quot;</td>
<td>9&quot;</td>
<td></td>
<td>Slightly raised 2&quot; diameter circle in center</td>
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<tr>
<td>10-3/4&quot;</td>
<td>30QBP1564</td>
<td>T3</td>
<td>7-7/8&quot;</td>
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<td>Has 3 feet, 8-3/8&quot; apart, 1/4&quot; high</td>
</tr>
<tr>
<td>11&quot;</td>
<td>30QBP0061</td>
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<td>8-1/4&quot;</td>
<td>9&quot;</td>
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<tr>
<td>11-1/4&quot;</td>
<td>30QBP1002</td>
<td>T7</td>
<td>8&quot;</td>
<td>9-1/8&quot;</td>
<td>9-1/8&quot;</td>
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<td></td>
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<tr>
<td>11-3/8&quot;</td>
<td>30QBP3675</td>
<td>T7</td>
<td>7&quot;</td>
<td>8-7/8&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet, 5-1/8&quot; apart</td>
</tr>
<tr>
<td>11-1/2&quot;</td>
<td>30QBP2435</td>
<td>T5</td>
<td>5-3/4&quot;</td>
<td>7-3/4&quot;</td>
<td></td>
<td></td>
<td>Has 3 tapered glass feet, 5-1/8&quot; apart</td>
</tr>
<tr>
<td>11-5/8&quot;</td>
<td>30QBP1111</td>
<td>T11</td>
<td>8-1/4&quot;</td>
<td>8-7/8&quot;</td>
<td>8-7/8&quot;</td>
<td></td>
<td>Has 1 ridged and track raised, track ID bevelled</td>
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<tr>
<td>11-15/16&quot;</td>
<td>30QBP2415</td>
<td>T5</td>
<td>8&quot;</td>
<td>10-7/16&quot;</td>
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<tr>
<td>12&quot;</td>
<td>30QBP0649</td>
<td>T5</td>
<td>7-7/8&quot;</td>
<td>9-3/8&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12&quot;</td>
<td>30QBP1145</td>
<td>T5</td>
<td>8&quot;</td>
<td>9-1/4&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet (dashes) 1/64&quot; high, 8&quot; center - center</td>
</tr>
<tr>
<td>12&quot;</td>
<td>30QBP1768</td>
<td>T3</td>
<td>8&quot;</td>
<td>9&quot;</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>12&quot;</td>
<td>30QBP4111</td>
<td>T5</td>
<td>8&quot;</td>
<td>10-3/8&quot;</td>
<td></td>
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<td></td>
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<tr>
<td>12&quot;</td>
<td>30QBP4160</td>
<td>T7</td>
<td>7-3/4&quot;</td>
<td>9&quot;</td>
<td>9&quot;</td>
<td></td>
<td>Has 3 feet, 1/8&quot; high, 8-3/4&quot; center - center</td>
</tr>
<tr>
<td>12-7/16&quot;</td>
<td>30QBP0793</td>
<td>T5</td>
<td>7-1/8&quot;</td>
<td>8-7/16&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet, 5-1/2&quot; apart, 3/16&quot; high</td>
</tr>
<tr>
<td>12-7/16&quot;</td>
<td>30QBP4124</td>
<td>T5</td>
<td>3-3/16&quot;</td>
<td>9-5/8&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet at 3-16&quot; high, 5-1/2&quot; center - center</td>
</tr>
<tr>
<td>12-7/16&quot;</td>
<td>30QBP4145</td>
<td>T5</td>
<td>7-3/16&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td></td>
<td>Has 3 feet at 1/4&quot; high, 5-1/2&quot; center - center</td>
</tr>
<tr>
<td>12-1/2&quot;</td>
<td>30QBP1848</td>
<td>T7</td>
<td>8-1/4&quot;</td>
<td>10-1/4&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet, 6-5/16&quot; apart, 3/16&quot; high</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Also fits GE WB39X10003</td>
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<tr>
<td>12-5/8&quot;</td>
<td>30QBP0254</td>
<td>T5</td>
<td>8&quot;</td>
<td>11-1/8&quot;</td>
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<tr>
<td>12-5/8&quot;</td>
<td>30QBP1274</td>
<td>T5</td>
<td>7-3/4&quot;</td>
<td>8-7/8&quot;</td>
<td></td>
<td></td>
<td>Has small rectangular feet, 8&quot; apart</td>
</tr>
</tbody>
</table>
### Microwave Turntable Trays

**See page 136 for drive tray profiles**

<table>
<thead>
<tr>
<th>Dia.</th>
<th>ERP#</th>
<th>Drive</th>
<th>Track ID</th>
<th>Track OD</th>
<th>Ridge ID</th>
<th>Ridge OD</th>
<th>Description</th>
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<tbody>
<tr>
<td>12-5/8&quot;</td>
<td>30QBP2418</td>
<td>8-1/16&quot;</td>
<td>9-1/4&quot;</td>
<td>9-1/4&quot;</td>
<td></td>
<td></td>
<td>Has 3 small rectangular feet on ridge</td>
</tr>
<tr>
<td>12-3/4&quot;</td>
<td>30QBP0663</td>
<td>T5</td>
<td>8-1/4&quot;</td>
<td>11-1/4&quot;</td>
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</tr>
<tr>
<td>12-7/8&quot;</td>
<td>30QBP3538</td>
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<td></td>
<td></td>
<td>10-1/2&quot;</td>
<td></td>
<td>White ceramic</td>
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<tr>
<td>13&quot;</td>
<td>30QBP0565</td>
<td></td>
<td></td>
<td></td>
<td>10-7/8&quot;</td>
<td>12-1/4&quot;</td>
<td>Metal, black with white spray</td>
</tr>
<tr>
<td>13&quot;</td>
<td>30QBP04026</td>
<td>8-11/16&quot;</td>
<td>9-3/4&quot;</td>
<td></td>
<td>9-3/4&quot;</td>
<td></td>
<td>Has 3 small rectangular feet on ridge</td>
</tr>
<tr>
<td>13-1/4&quot;</td>
<td>30QBP0901</td>
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<td>7-7/8&quot;</td>
<td>8-7/8&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet, 9-3/4&quot; apart, 3/16&quot; high</td>
</tr>
<tr>
<td>12-5/8&quot;</td>
<td>30QBP03031</td>
<td>T3</td>
<td>7-7/8&quot;</td>
<td>8-7/8&quot;</td>
<td>8-7/8&quot;</td>
<td></td>
<td>OD on ridge is tapers, 3 round feet, 9-1/4&quot; apart</td>
</tr>
<tr>
<td>13-3/8&quot;</td>
<td>30QBP4119</td>
<td>T5</td>
<td>8&quot;</td>
<td>11&quot;</td>
<td></td>
<td></td>
<td>Has 3 tapered feet, 6&quot; apart, 7/32&quot; high</td>
</tr>
<tr>
<td>13-9/16&quot;</td>
<td>30QBP0331</td>
<td>T5</td>
<td>8-1/4&quot;</td>
<td>10-7/8&quot;</td>
<td></td>
<td></td>
<td>Has 3 feet, 6-5/16&quot; apart, 3/16&quot; high</td>
</tr>
<tr>
<td>13-5/8&quot;</td>
<td>30QBP2782</td>
<td>T7</td>
<td>8-1/4&quot;</td>
<td>10-1/4&quot;</td>
<td></td>
<td></td>
<td>Has 3 round glass feet, 6-3/8&quot; apart, 1/4&quot; high</td>
</tr>
<tr>
<td>13-13/16&quot;</td>
<td>30QBP0570</td>
<td>T15</td>
<td>8-5/8&quot;</td>
<td>10-1/4&quot;</td>
<td></td>
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<td>Has 3 tapered feet, 6-3/16&quot; apart, 1-4&quot; high</td>
</tr>
<tr>
<td>14-1/8&quot;</td>
<td>30QBP0766</td>
<td>T5</td>
<td>9-3/4&quot;</td>
<td>11&quot;</td>
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<td></td>
<td>Has 3 feet, 7-3/4&quot; apart, 1/8&quot; high</td>
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<tr>
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<td>30QBP0349</td>
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<td>10-7/8&quot;</td>
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<td>No feet, rests on raised ridge</td>
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<td>30QBP04099</td>
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<td>9-1/4&quot;</td>
<td>9-1/4&quot;</td>
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<td>Has 3 small rectangular feet on ridge</td>
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<tr>
<td>14-3/16&quot;</td>
<td>30QBP4107</td>
<td>8-5/8&quot;</td>
<td>9-3/4&quot;</td>
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<td>Has 3 small rectangular feet on ridge</td>
</tr>
<tr>
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<td>30QBP4630</td>
<td>T7</td>
<td>8-1/4&quot;</td>
<td>10-1/4&quot;</td>
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<td>Has 3 feet, 6-3/8&quot; apart, 5/16&quot; high</td>
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<tr>
<td>14-7/8&quot;</td>
<td>30QBP1247</td>
<td>T5</td>
<td>8-3/8&quot;</td>
<td>9-1/2&quot;</td>
<td></td>
<td></td>
<td>Has 6 feet on 13&quot; circle</td>
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<td>30QBP0606</td>
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<td>11-3/4&quot;</td>
<td>12-1/2&quot;</td>
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<td></td>
<td>Light gray ceramic with dark flecks, 1&quot; high</td>
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<tr>
<td>15&quot;</td>
<td>30QBP1616</td>
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<td>9-3/4&quot;</td>
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<td>15-1/8&quot;</td>
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<td>T10</td>
<td>9-7/8&quot;</td>
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<td>Has 3 rectangular feet, 11-1/2&quot; apart, 5/16&quot; high</td>
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<tr>
<td>15-3/8&quot;</td>
<td>30QBP0055</td>
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<td>9&quot;</td>
<td>10-1/4&quot;</td>
<td>11-3/8&quot;</td>
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<td>30QBP2375</td>
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<td>12-1/2&quot;</td>
<td>14-1/4&quot;</td>
<td>Metal, black with white speckles</td>
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</tr>
<tr>
<td>15-5/8&quot;</td>
<td>30QBP2198</td>
<td>8-3/8&quot;</td>
<td>9-5/8&quot;</td>
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<td>30QBP0350</td>
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<td>9-3/16&quot;</td>
<td>9-3/16&quot;</td>
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<td>Has 3 small rectangular feet on ridge</td>
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<tr>
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<td>30QBP1000</td>
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<td>9-5/8&quot;</td>
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<td>30QBP4087</td>
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<td>9-5/8&quot;</td>
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<td>Has 3 small rectangular feet on ridge</td>
</tr>
<tr>
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<td>30QBP4126</td>
<td>T5</td>
<td>9-3/4&quot;</td>
<td>11&quot;</td>
<td></td>
<td></td>
<td>Has 3 tapered feet, 7-5/8&quot; apart, 5/32&quot; high</td>
</tr>
</tbody>
</table>

**Order No. 30QBP2567**

15-3/4" length x 13-1/32" width  
3/4" thick  
Sides slightly curved  
4-5/8" x 5/8" x 3/16" deep slot in center of tray bottom

**Order No. 30QBP0041**

10-1/2" length x 10-1/2" width  
11-13/16" length x 12-3/4" width

**Order No. 30QBP0048**

12-1/16" length x 10-5/8" width  
13-3/8" length x 12-5/8" width

**Order No. 30QBP264**

14-1/2" length x 13-5/8" width (white ceramic)

**Order No. 30QBP1457**

15-3/4" length x 15-7/16" width

**Order No. 30QBP0604**

19-1/8" length x 16-3/8" width

**Order No. 30QBP0566**

*Has 4 round feet at 1-1/4" high, 5/16" center - center  
Also has 4 rectangular feet near edges that are 1/4" x 2" and 3/16" high
MICROWAVE WAVEGUIDES & STIRRER COVERS

Order No. 40QBP1012
Order No. 40QBP1618

Cut-to-fit
Mica construction

Universal

Order No. 40QBP0573

3-27/32” L x 3-1/4” W
Mica construction

Emerson

Order No. 40QBP1399

4-5/8” L x 3-7/8” W
Mica construction

Emerson

Order No. 29QBP4099

4-3/4” L x 4” W
Mica construction

Emerson

Order No. 29QBP4093

8-3/4” diameter
Mica construction
Includes metal fan disc

Goldstar

Order No. 40QBP4144

4-15/32” L x 4-7/8” W
Mica construction

Goldstar

Order No. 40QBP4149

4-1/4” L x 3-3/4” W
Plastic construction

Goldstar

Order No. 40QBP4200

5-1/2” L x 4-3/8” W
Mica construction

Goldstar

Order No. 29QBP4095

13” L x 10-7/8” W
Clear frame with white ceiling plate

Panasonic

Order No. 40QBP1155

4-9/32” L x 2-11/16” W
Mica construction

Panasonic

Order No. 40QBP4209

4-9/32” L x 4-9/32” W
Mica construction

Panasonic

Order No. 29QBP478

4-3/8” L x 2-27/32” W
Mica construction

Sharp

Order No. 29QBP1951

4-11/16” L x 3-1/16” W
Mica construction

Sharp

Order No. 29QBP2569

9-5/16” diameter
Mica construction with plastic shaft

Sharp

Order No. 29QBP3608

4-3/16” L x 2-13/16” W
Mica construction

Sharp
<table>
<thead>
<tr>
<th>Order No.</th>
<th>Dimensions</th>
<th>Mica Construction</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>29QBP4085</td>
<td>7-3/4&quot; L x 7&quot; W</td>
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<td>Sharp</td>
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<tr>
<td>40QBP0461</td>
<td>4-7/8&quot; L x 4-5/8&quot; W</td>
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<td>40QBP0480</td>
<td>4-11/16&quot; L x 4-3/16&quot; W</td>
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<td>40QBP0485</td>
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<tr>
<td>40QBP0488</td>
<td>4-19/32&quot; L x 4-3/32&quot; W</td>
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<td>Mica construction</td>
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<td>40QBP0715</td>
<td>4-3/16&quot; L x 3-27/32&quot; W</td>
<td>Mica construction</td>
<td>Sharp</td>
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<td>40QBP0737</td>
<td>5-3/32&quot; L x 4-9/32&quot; W</td>
<td>Mica construction</td>
<td>Sharp</td>
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<tr>
<td>40QBP0739</td>
<td>4-5/8&quot; L x 4-1/32&quot; W</td>
<td>Mica construction</td>
<td>Sharp</td>
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<tr>
<td>40QBP0743</td>
<td>6-5/32&quot; L x 4-1/4&quot; W</td>
<td>Mica construction</td>
<td>Sharp</td>
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<td>40QBP1706</td>
<td>4-5/8&quot; L x 4-1/32&quot; W</td>
<td>Mica construction</td>
<td>Sharp</td>
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<tr>
<td>40QBP3849</td>
<td>4-9/16&quot; L x 4-3/32&quot; W</td>
<td>Mica construction</td>
<td>Sharp</td>
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<td>40QBP4189</td>
<td>5-9/32&quot; L x 5-1/2&quot; W</td>
<td>Mica construction</td>
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<td>40QBP4197</td>
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<td>Mica construction</td>
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<td>40QBP4201</td>
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<td>Mica construction</td>
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<tr>
<td>40QBP4203</td>
<td>8-1/2&quot; L x 8-1/2&quot; W</td>
<td>Mica construction with plastic shaft</td>
<td>Sharp</td>
</tr>
</tbody>
</table>
**MICROWAVE WAVEGUIDE COVER RETAINER CLIPS**

**Order No. 80QBP0896**
- Pin head: .310" width: .097" length: .275"
- Receptacle dia: .153" Shaft length: .190"
- Qty: 2 expansion pins
- *Sold in packs of 25*

**Order No. 80QBP0898**
- Pin head: .315" width: .134" length: .312"
- Receptacle dia: .191" Shaft length: .220"
- Qty: 2 expansion pins
- Waveguide cover retainer push pins
- *Universal*

**Order No. 80QBP0761**
- Waveguide cover retainer canoe clip
- Pin head: .308" Width: .140" Length: .330"
- *Universal*

**Order No. 80QBP0836**
- Waveguide cover retainer push pin
- Pin head: .315" width: .073" length: .215"
- Receptacle dia: .139"
- Qty: 1 expansion pin

**Order No. 80QBP0723**
- Waveguide cover retainer canoe clip
- Pin head: .281"
- Width: .155"
- Length: .365"
- *Universal*

**Order No. 80QBP0894**
- Waveguide cover retainer canoe clip
- Pin head: .278"
- Width: .141"
- Length: .325"
- *Sold in packs of 25
  Universal*

**Order No. 80QBP0895**
- Waveguide cover retainer canoe clip
- Pin head: .420"
- Width: .236"
- Length: .590"
- *Sold in packs of 100
  Universal*

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**MICROWAVE MISCELLANEOUS**

**Order No. 4750**
- Magic Lights Microwave Tester
  - Checks microwave power settings
  - Finds hot and cold spots
  - No batteries needed

**Order No. MLM240**
- Microwave Radiation Detector
  - Checks radiation levels
  - Simple and cost efficient warning device
  - No batteries required
  - 2"L x 1-3/8"W x 3/4"H
  - Gauge with “Safety” and “Danger” zones, display immediate results

**Order No. CDMICRO**
- Microwave Repair CD
  - Nearly 400 pages of fully searchable text & illustrations
  - Over 20 minutes of hands-on video clips
  - Factory troubleshooting charts, errors & service codes, formulas, schematics & diagnostic procedures
  - Touch panel (keypad) matrix diagrams for 100s of brands

**Order No. DVDMICRO**
- Microwave Repair DVD "You Can Fix Microwave Ovens!"
  - Newly remastered and completely udpated
  - Designed for appliance, electronic techs, students, amateurs & do-it-yourselfers
  - Complete, in-depth, step-by-step instructional video on operation, maintenance & repair with emphasis on safety

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**Repairing a microwave oven is a dangerous task. The high-voltage potential combined with the high-current capability of an operating microwave oven pose a deadly threat to a careless worker. Therefore, for your personal safety, we respectfully ask that you read and understand these very important safety precautions before attempting any repairs.**