



INSTALLATION INSTRUCTIONS

MICROWAVE OVEN

PLEASE READ AND SAVE THESE
INSTALLATION INSTRUCTIONS.



MFL06208709_06

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YOUR SAFETY FIRST

BEFORE YOU START

- **Proper installation is the installer's responsibility!**

Proper installation by a qualified technician or installer is recommended.

– Read the entire manual before you begin. The model number label is located on the oven front.

See Figure 1. Mounting plate is located on back side of microwave oven. See Figure 2.

NOTE: Vent grille appearance varies by model.

BE SURE TO READ THE FOLLOWING SAFETY INSTRUCTIONS:

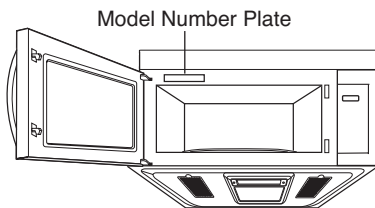


Figure 1

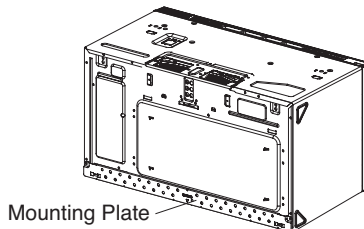


Figure 2



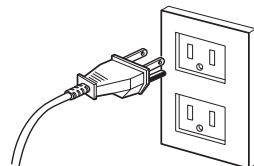
WARNING

For Your Safety

- **This oven should not be installed or located by anyone except properly qualified service personnel.**
- **You will need TWO people to install this oven.** It is heavy and could cause personal injury if not handled properly.
- **Avoid Electrical Shock!**
 - Before you drill into the wall, note where electrical outlets are and where electrical wires might be concealed behind the wall. **YOU COULD GET AN ELECTRIC SHOCK** if you contact electrical wires with your drill bit.
 - Locate and disconnect the power to any electrical circuits that could be affected by installing this oven.**IF YOU DO NOT DISCONNECT THE POWER, YOU COULD GET AN ELECTRIC SHOCK.**
- **ELECTRICAL RATING OF THIS OVEN : 120V AC. 60Hz.**
 - You need a 120V, 60Hz, AC only, 15A or 20A, fused electrical supply (located in the cabinet above the microwave as close as possible to the microwave circuit) serving only the microwave.
- **THIS APPLIANCE MUST BE GROUNDED!**
 - If there is an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug.
 - Place the plug into a properly installed and grounded outlet. See Figure 3.
 - Do not use an extension cord.
 - Keep the power cord dry and do not pinch or crush it.Failure to follow this instruction may cause a fire hazard.
- **DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER SUPPLY CORD GROUNDING PRONG!**

This appliance **MUST** be grounded!

PROPERLY POLARIZED AND GROUNDED OUTLET



Three-Pronged (Grounding) Plug

Figure 3



WARNING

If you use the grounding plug improperly, you risk electric shock and/or fire!

Check with a qualified electrician if you are not sure whether the oven is properly grounded or if you do not completely understand the grounding instructions.

DO NOT USE A FUSE IN THE NEUTRAL OR GROUNDING CIRCUIT.



WARNING

Improper grounding could result in electric shock, fire or other personal injury.

YOUR SAFETY FIRST

SAVE THESE INSTRUCTIONS FOR THE LOCAL ELECTRICAL INSPECTOR'S USE.

• **DO NOT EXPOSE YOURSELF TO EXCESSIVE MICROWAVE ENERGY!**

- DO NOT try to operate the microwave oven with the door open.
- DO NOT tamper with or defeat the safety interlocks.
- DO NOT place objects between the microwave oven front face and the door.
- DO NOT allow soil or cleaner residue to build up on the flat surfaces around the microwave oven door.
- DO NOT operate the microwave oven if it is damaged.
- The microwave oven door must close properly to operate safely.
- DO NOT USE THE MICROWAVE OVEN:
 - If the door is bent.
 - If the hinges or latches are broken or loose.
 - If the door seals, sealing surfaces or glass is broken.
- DO NOT ATTEMPT TO ADJUST OR REPAIR THE OVEN YOURSELF!
It should be adjusted and repaired by a qualified technician who can check for microwave leakage after repairing the oven.

⚠ WARNING

**If you do not use the microwave oven as instructed,
you could be exposed to excessive microwave energy.**

• **MAKE SURE YOU HAVE ENOUGH SPACE AND SUPPORT.**

- Mount the oven against a flat, vertical wall, so that it is supported by the wall. The wall should be constructed of minimum 2" x 4" wood studding and 3/8" thick drywall or plaster/lath.
- ATTACH AT LEAST ONE of the two lag screws supporting the oven to a vertical, 2" x 4" wall stud.
- DO NOT mount the microwave oven to an island or peninsula cabinet.
- BE SURE the upper cabinet and rear wall structures are able to support 150 lbs., plus the weight of any items you place inside the oven or upper cabinet.
- Locate the oven away from strong draft areas, such as windows, doors, and strong heating vents.
- BE SURE you have enough space. See Figure 4 below for minimum vertical and horizontal clearance.

⚠ WARNING

**If you do not mount the oven as instructed,
you risk personal injury and/or property damage.**

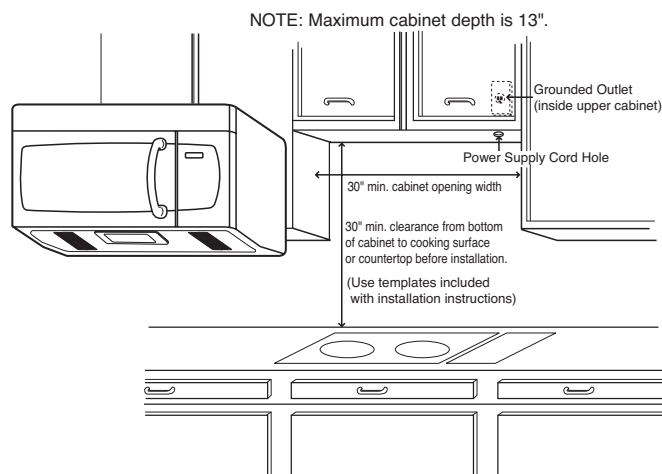


Figure 4

⚠ CAUTION

- Before you begin installing the oven, PLACE A PIECE OF THE CARTON OR OTHER HEAVY MATERIAL (a blanket) over the countertop or cooktop to protect it. **Do not use a plastic cover.** Failure to protect these surfaces could result in property damage.

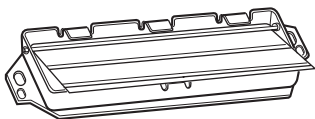
PARTS, TOOLS, MATERIALS

THE FOLLOWING PARTS ARE SUPPLIED WITH THE OVEN:

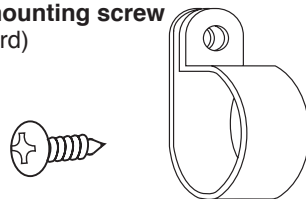
NOTE: Depending on your ventilation requirements, you may not use all of these parts.

Damper/duct connector

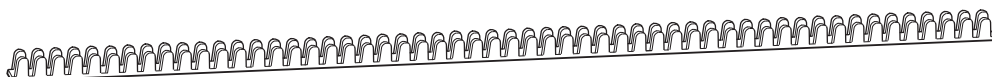
(for roof venting or wall venting installation)
Not Actual Size (2 pieces must be assembled as shown)



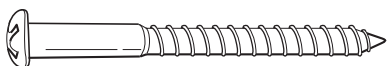
One power cord clamp and
One dark-colored mounting screw
(to hold the power cord)
Actual Size



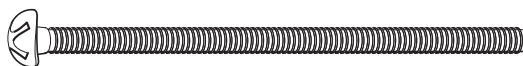
One power cord clamp bushing - Actual Size (for the cord hole in a metal upper cabinet)



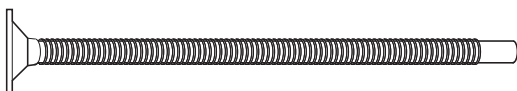
Two 1/4" x 2" lag screws - Actual Size
(for wall stud holes)



Two 1/4" x 3" toggle bolts - Actual Size
(for drywall holes)



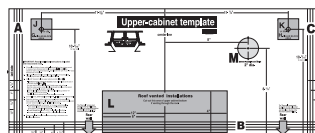
Two 1/4" x 3" bolts - Actual Size
(for securing to the upper cabinet)



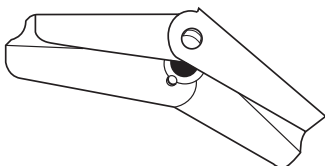
Two tapping screws - Actual Size
(for attaching the damper duct connector)



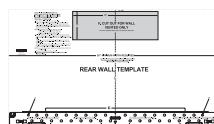
One upper cabinet template- Not Actual Size



Two spring toggle heads - Actual Size
(for the toggle bolts)



One rear wall template- Not Actual Size



NOTE: You need to install at least two lag screws into a 2" x 4" stud and four anchor bolts into the wall. and the mounting area must meet the 150 lbs. weight requirement.
For your safety and for extended product life, only use authorized components.

PARTS, TOOLS, MATERIALS

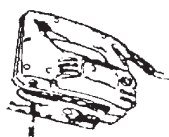
You will need the following tools and materials for the installation:

Carton or other heavy material for covering the counter top.

Clear Tape
(for taping the templates to the wall)



Stud Finder



Saber Saw
(for cutting vent holes for roof
or wall venting)

Phillips Screwdriver



Pencil



Flat Blade Screwdriver



Measuring Tape



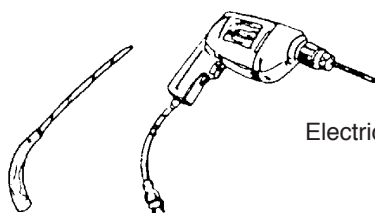
Small Side Cutters or Tin Snips



Gloves



Keyhole Saw (for the power cord hole)

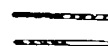


Electric Drill

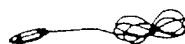
3/8" and 3/4" wood drill bits



1/2" and 3/16"
drill bits



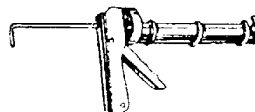
Plumb Line



Duct Tape



Caulking Gun



- If you have brick or masonry walls, you will need special hardware and tools.
- The ductwork you need for the installation is not included. All wall and roof caps must have a back-draft damper. (Shown on page 5).

STEP 1: PREPARE THE ELECTRICAL CONNECTIONS



WARNING

AVOID ELECTRICAL SHOCK! THIS APPLIANCE MUST BE GROUNDED!

1. Locate the grounded electric outlet for this oven in the cabinet above the oven, as shown in Figure 5.

NOTE: The outlet should be on a circuit dedicated to the microwave oven (120V, 60 Hz., AC only) with a 15 or 20A fused electrical supply.

IMPORTANT: If you do not have the proper wall outlet, you **MUST** have one installed by a qualified electrician.

2. You will cut the power-supply-cord hole (shown in Figure 5) later when you prepare the wall and upper cabinet in Step 4.

NOTE: Do not use an extension cord.
Keep the power cord dry and do not pinch or crush it.

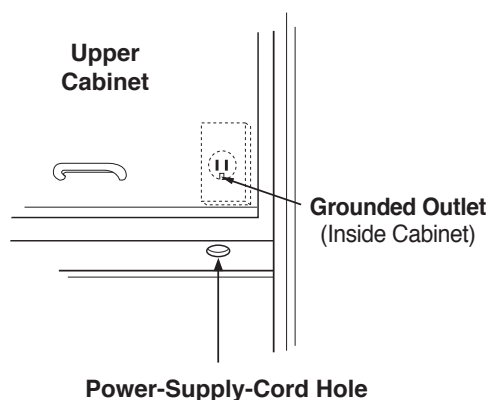


Figure 5



WARNING

Improper grounding could result in electric shock or other personal injury.

- DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER SUPPLY CORD GROUNDING PRONG!
- This appliance **MUST** be grounded!

STEP 2: PREPARE THE VENTING SYSTEM

NOTE: The ductwork you need for outside ventilation is not included with your oven. The standard ductwork fittings and length are shown in Figure 10, page 8.



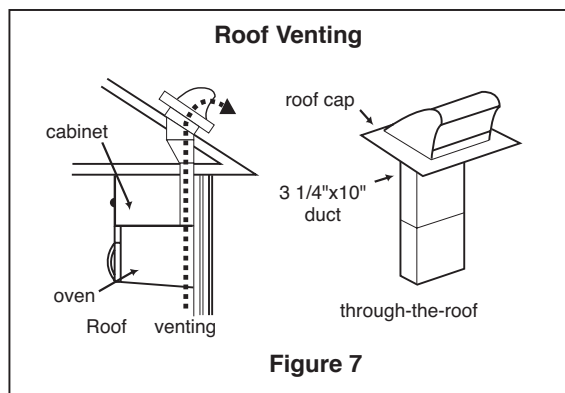
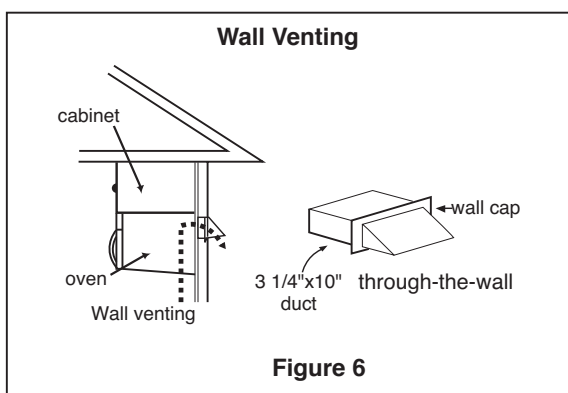
WARNING

THIS OVEN MUST BE PROPERLY VENTED!

You may vent your oven in one of three ways. Do NOT vent into a wall cavity, an attic, or an unused area.

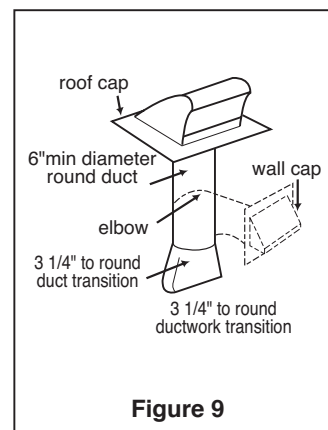
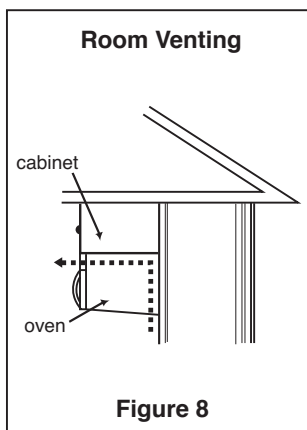
- **Roof-venting** If your oven is located on an outside wall near the roof, as in Figures 7 (3 1/4" x 10" duct) and Figure 9 (6" round duct.)
- **Wall-venting** If your oven is located on an outside wall of your house, as in Figure 6 (3 1/4" x 10" duct) and Figure 9 (6" round duct.)
- **Room-venting** If your oven is located on an inside wall of your house, as in Figure 8.

NOTE: If you choose the rear exhaust method (roof-or wall-venting), be sure there is enough clearance within the wall for the exhaust duct.



REMEMBER AS YOU INSTALL THE VENTING:

- Keep the length of the ductwork and the number of elbows to a minimum to ventilate your oven efficiently. See examples on page 8.
- Keep the size of the ductwork the same.
- Do not install two elbows together.
- Use duct tape to seal all joints in the duct system.
- Use caulking to seal the exterior wall or roof opening around the cap.



Standard Fittings

NOTE: If the existing duct is round, you must use a rectangular-to-round adapter, with a rectangular 3" extension duct installed between the damper assembly and the adapter to prevent the exhaust damper's sticking.

Duct Length

The total length of the duct system, including straight duct, elbows, transitions, and wall or roof caps **must not exceed the equivalent of 140 feet.**

For best performance, do not use more than three 90 degree elbows, and keep length as short as possible.

Below are the standard fittings and their equivalent length in feet.

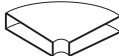
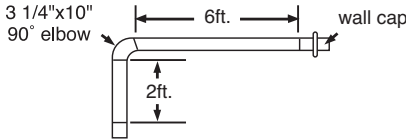
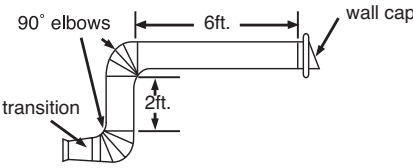
1  3 1/4" x 10" to 6"=5ft.	2  3 1/4" x 10" roof cap=24ft.	3  3 1/4" x 10" 90° elbow=25ft.	
4  90° elbow =10ft.	5  3 1/4" x 10" wall cap =40ft.	6  45° elbow =5ft.	7  3 1/4" x 10" flat elbow =10ft.

Figure 10

To calculate the equivalent length of each duct piece used, see the examples below.

Examples																												
For 3 1/4"x10" SYSTEMS  3 1/4"x10" 90° elbow 6ft. wall cap 2ft. <table><tr><td>1-3 1/4" x 10" 90° elbow</td><td>=</td><td>25 ft.</td></tr><tr><td>1-Wall Cap</td><td>=</td><td>40 ft.</td></tr><tr><td>8 feet straight duct</td><td>=</td><td>8 ft.</td></tr><tr><td>TOTAL LENGTH</td><td>=</td><td>73 ft.</td></tr></table>	1-3 1/4" x 10" 90° elbow	=	25 ft.	1-Wall Cap	=	40 ft.	8 feet straight duct	=	8 ft.	TOTAL LENGTH	=	73 ft.	For 6"ROUND SYSTEMS  90° elbows 6ft. wall cap 2ft. transition <table><tr><td>1-transition</td><td>=</td><td>5 ft.</td></tr><tr><td>2-90° elbows</td><td>=</td><td>20 ft.</td></tr><tr><td>1-Wall Cap</td><td>=</td><td>40 ft.</td></tr><tr><td>8 feet straight</td><td>=</td><td>8 ft.</td></tr><tr><td>TOTAL LENGTH</td><td>=</td><td>73 ft.</td></tr></table>	1-transition	=	5 ft.	2-90° elbows	=	20 ft.	1-Wall Cap	=	40 ft.	8 feet straight	=	8 ft.	TOTAL LENGTH	=	73 ft.
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2-90° elbows	=	20 ft.																										
1-Wall Cap	=	40 ft.																										
8 feet straight	=	8 ft.																										
TOTAL LENGTH	=	73 ft.																										

STEP 3: *PREPARE THE VENTING BLOWER*



WARNING

- To avoid risk of property damage, unplug the microwave oven or disconnect power at source by removing fuse or throwing circuit breaker.
- To avoid risk of personal injury, wear protective gloves when handling mounting plate.

DO NOT PULL OR STRETCH THE BLOWER WIRING! Pulling and stretching the blower wiring could result in electrical shock.

- Your microwave oven is shipped with the blower assembled for room venting. If you want wall-venting or roof-vented installation, you must change the blower, as detailed below.

Before You Start

1. Remove any shipping materials and parts from inside the microwave oven.
2. Cover the counter top or cooktop with a thick, protective covering to protect it from damage and dirt. See Figure 11.

NOTE: If you have a free-standing range, disconnect it, move it onto a piece of cardboard or hardboard and pull it away from the wall, so that you can get closer to the upper cabinet and back wall for easier measuring and drilling.

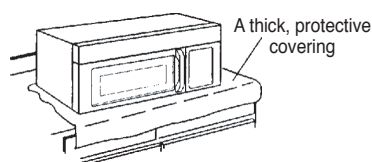


Figure 11

Remove The Mounting Plate:

1. Remove mounting plate screws from the mounting plate as shown and discard. See Figure 12.
2. This plate will be used as the rear mounting plate. (It will be used to locate and mark the mounting holes on the rear wall.)
3. Locate exhaust adapter, grease filters and hardware packet.
4. At this point, remove any adhesive tape (if there is any), on the exhaust adapter, the grease filters and the power supply cord.

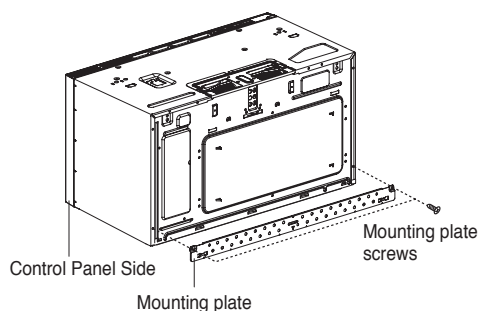


Figure 12

Room-Vented (recirculating) Installation:

This oven is shipped assembled for room-vented.

Wall-Vented Installation:

1. Remove one blower unit mounting screw and one or two blower plate screw(s). Remove the blower plate from cabinet. See Figure 13.
2. Carefully lift the blower unit out of the microwave oven.
3. Use side cutters or thin snips to cut and remove knockouts "B" from Back plate. Discard knockouts. Be careful not to distort the plate. See Figure 14.

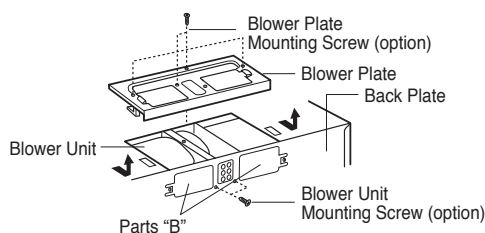


Figure 13

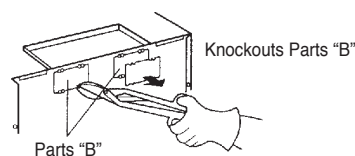


Figure 14

4. Reassemble the blower wire. See Figure 15.
5. Rotate the unit so that the exhaust ports face the rear of the cabinet. See Figure 17. When you insert blower unit, blower wire must be like figure 16.
6. Place blower unit back into cabinet. Check that the exhaust ports face towards the rear of the cabinet. See Figure 17.
7. Reattach the blower plate to cabinet so the exhaust ports and blower plate opening are aligned. Attach with one blower unit mounting screw and then one blower plate mounting screw. See Figure 18.

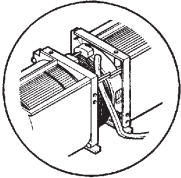


Figure 15

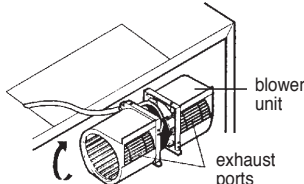


Figure 16

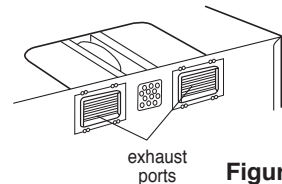


Figure 17

Roof-Vented Installation:

1. Remove one blower unit mounting screw and one or two blower plate screw(s). Remove the blower plate from cabinet. See Figure 19.
2. Use side cutter or thin snips to cut and remove knockouts "A" from Blower plate. Discard knockouts. Be careful not to distort the plate. See Figure 20.
3. Carefully lift the blower unit out of the microwave oven.
4. Rotate blower unit 90° so the exhaust ports face the top of the cabinet. See Figure 21.
5. Reassemble the blower wire.
6. Place blower unit back into microwave oven.
7. Reattach blower plate to microwave oven. Attach with the one blower unit mounting screw and then the one or two blower plate mounting screw(s). See Figure 22.
8. Attach the exhaust adapter to the blower plate by sliding it into the Guide. See Figure 23.

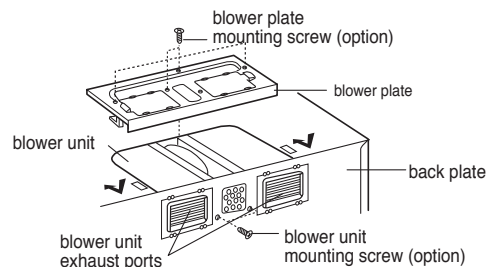


Figure 18

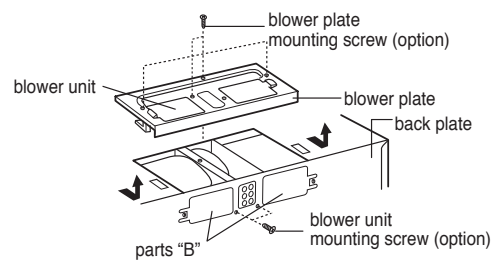


Figure 19

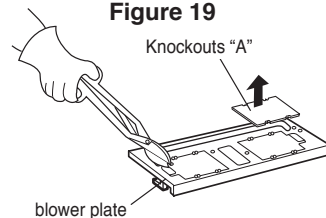


Figure 20

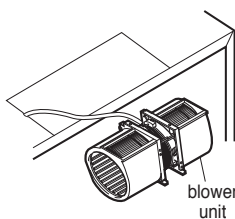


Figure 21

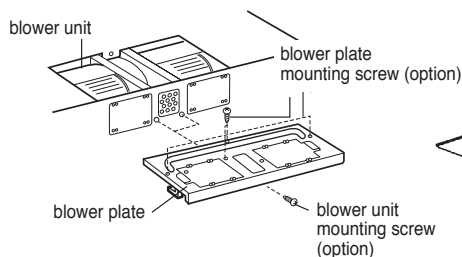


Figure 22

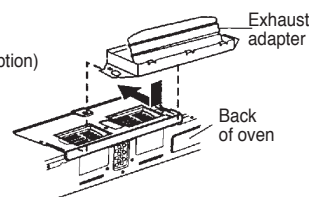


Figure 23

STEP 4: *PREPARE THE WALL & UPPER CABINET*



WARNING

To avoid personal injury or property damage, do not attempt to install this microwave oven if you cannot find a wall stud.

Measure And Track/Tape Up The Templates

1. Using a plumb line and measuring tape, find and mark the vertical center line on the back wall, as in Figure 24.
2. Find and mark one or two points where the studs are on the wall. Then measure and mark the stud locations. If you cannot find any wall stud, consult a local building contractor.

CAUTION

DO NOT ATTEMPT TO INSTALL THE MICROWAVE OVEN IF YOU CANNOT FIND A WALL STUD.

3. Line up the plumb line on the wall with the center line on the mounting plate.

NOTE: Be sure the minimum width is 30 inches and the distance from the top of the wall template to the range or counter top is at least 30 inches. See Figure 24.

4. Center mounting plate in operating by lining up the plumb line on wall with centerline on mounting plate. Make sure the minimum width is 30 inches and that the top of the mounting plate is located a minimum of 30 inches above the cooking surface. See Figure 25.

NOTE: If the cabinets are not plumb, adjust the mounting plate to the cabinets. If the front edge of the cabinet is lower than the back edge, adjust the mounting plate to be level with the cabinet front.

5. Measure the bottom of the upper cabinet frame. Trim the edges A, B and C on the upper cabinet template so that the template will fit on the bottom of the upper cabinet. If upper cabinet has a recessed frame, trim the template so it fits inside the recessed area. Align the centerline of the upper cabinet template with the centerline of the mounting plate, then securely tape or tack the upper cabinet template in place. See Figure 25.

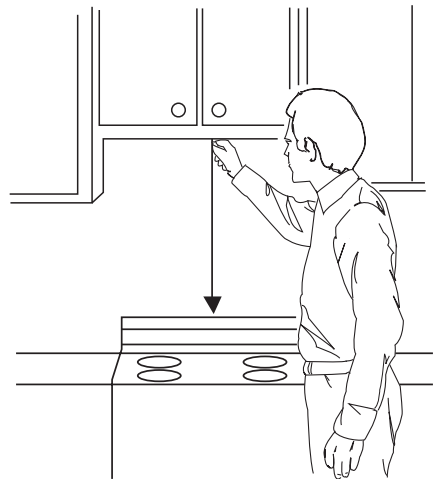


Figure 24

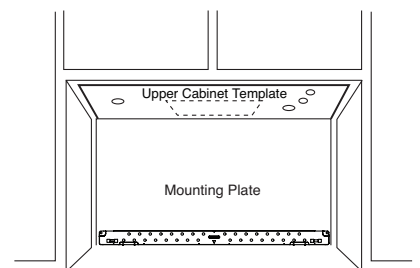


Figure 25



WARNING

To avoid risk of personal injury, electrical shock or death:

- Note where electrical outlets and electrical wires are before you drill into the wall.
- Locate and disconnect power to any electrical circuits that could be affected by installing this oven.



WARNING

To avoid risk of personal injury, electrical shock or death, cover the edge of the power supply cord hole with the power supply cord bushing.

Drill The Holes In The Wall And Upper Cabinet.

1. Drill holes on the circles. If there is a stud, drill a 3/16" hole for lag screws. If there is no stud, drill a 3/4" hole for toggle screws. Make sure to use at least 1 lag screw in a stud, and 4 toggle screws in the drywall or the plaster.
2. Drill a 3/8" hole at points **J** and **K** on the upper cabinet template.

NOTE: If the bottom of the upper cabinet is recessed 3/4" or more, you will need 2"x 2" filler blocks (not included) to provide additional support for the bolts. See Figure 26.

- Mark the center of each filler block and drill a 3/8" diameter hole at the marks.
 - Align filler blocks over the two openings in the top of the microwave oven cabinet and attach to cabinet with masking tape. See Figure 27.
3. Cut or drill a 2" diameter hole at the area marked **M**. Power supply cord hole on the upper cabinet template. If the upper cabinet is metal, you will need to cover the edge of the hole with the power supply cord bushing (supplied) to prevent damage to the cord from the rough metal edge.
 4. Cut out the venting areas (with the saber saw):
 - Roof-Vented: cut out the shaded area marked **L** on the upper cabinet template.
 - Wall-Vented: Tape the rear wall template to the rear wall, lining up with the holes previously drilled for holes **A** and **B** in the plate. Cut out the shaded area marked **F** on the REAR WALL TEMPLATE.
 - Room-Vented: go to STEP 5, INSTALL THE MOUNTING PLATE, located on page 13.
 5. Complete whichever venting system you have chosen. Use caulking compound to seal the exterior wall or roof opening around the wall cap or roof cap.

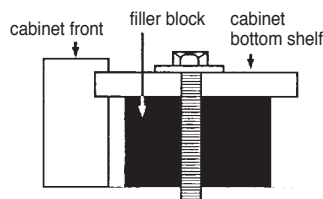


Figure 26

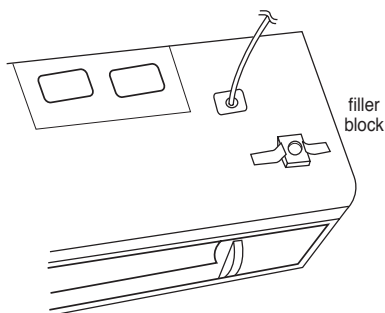


Figure 27

STEP 5: *INSTALL THE MOUNTING PLATE*

The Oven Must Be Connected To At Least One

Wall Stud.

1. Center the rear wall template in the space by lining up the plumb line on wall with centerline on template. Then securely tape or tack the rear wall template in place. Make sure the minimum width is 30 inches and that the top of the rear wall template is located a minimum of 30 inches above the cooking surface. See Figure 24.

NOTE: If the cabinets are not plumb, adjust the rear wall template to the cabinets. If the front edge of the cabinet is lower than the back edge, adjust the template to be level with the cabinet front.

2. Drill holes at points A, B. Drill the third hole inside area C, through one of the bottom holes to match the location of a stud. If there is a stud, drill a 3/16 hole for lag screws. If there is no stud, drill a 5/8 hole for toggle bolts. These holes must be used for mounting. If the holes are not used, the installation will not be secure. Installer must use these holes for proper installation. See Figure 28. Use toggle bolts through these holes, unless one of them lines up with a stud. Use a wood screw for studs. Make sure to use at least 1 lag screw in a stud, and 2 toggle bolts in the drywall or the plaster.

NOTE: Cut out the shaded area marked F on the REAR WALL TEMPLATE for wall-venting.

3. Remove the template from the rear wall.
4. Attach the plate to the wall. To use spring toggle head bolts: Remove the toggle wings from the bolts. Insert the bolts into the mounting plate and replace the spring toggle head to 3/4 past the bolt ends. Insert the spring toggle head into the holes in the wall to mount the plate. You may pull forward on the plate to help in tightening the toggle bolts. Tighten all bolts. See Figure 29.

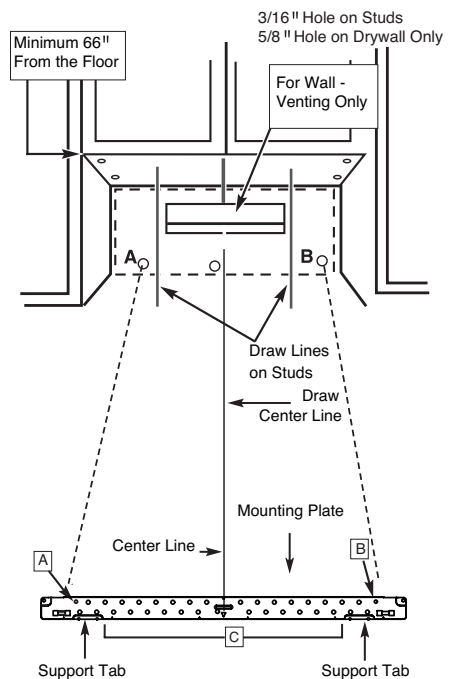


Figure 28

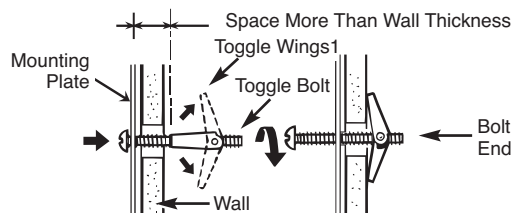


Figure 29

STEP 6: ATTACH THE OVEN TO THE WALL

WARNING

To avoid risk of personal injury or property damage, use will need two people to install this microwave oven.

1. Carefully lift microwave oven and hang it on support tabs (See Figure 28) at the bottom of the mounting plate. Reaching through upper cabinet, thread power supply cord through the power supply cord hole in the bottom of the upper cabinet. See Figure 30.
2. Rotate the microwave oven upward so the top of oven is against the bottom of the upper cabinet or cabinet frame.
3. Then insert a bolt down through each hole in the upper cabinet bottom. See Figure 31.
Tighten the bolts until the gap between the upper cabinet and microwave oven is closed.
4. If wall vented or room vented installation is used, go to No. 7 on this page.
5. Roof venting installation: See Figure 32.
Install ductwork through the vent opening in the upper cabinet. Complete the venting system through the roof according to the method needed. See "Prepare The Venting System" STEP 2. Use caulking gun to seal the exterior roof opening around the exhaust cap. See Figure 7 on page 7.
6. Use the power supply cord clamp to bundle the power supply cord. Install the power supply cord clamp, using a screw as shown in Figure 33, to the inside of the cabinet.
7. Grasp filter screen with one hand holding the ring and the other hand holding the opposite end. Insert the end of the filter screen without ring into the opening and slide towards the side of the microwave oven. Insert ring end of filter screen into the opening and slide entire screen towards the center of the microwave until screen is securely in position. Repeat for other filter screen. See Figure 34.
8. Plug in the power supply cord.
9. Read your Owner's Manual, then check the operation of your microwave oven.

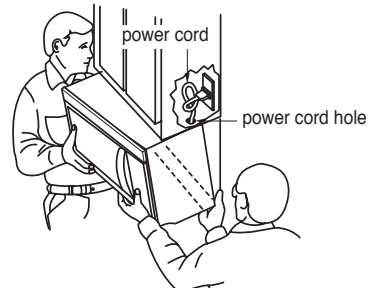


Figure 30

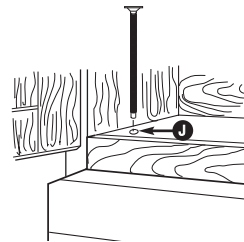


Figure 31

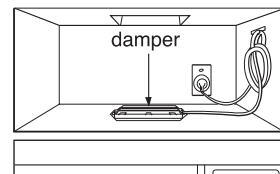


Figure 32

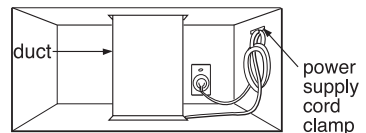


Figure 33

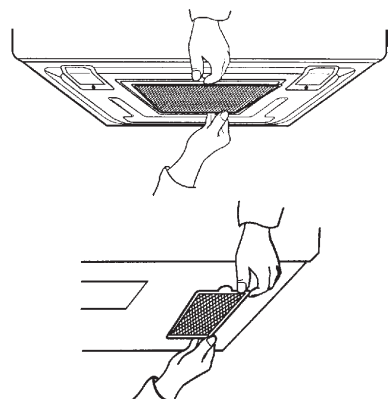


Figure 34

MEMO

