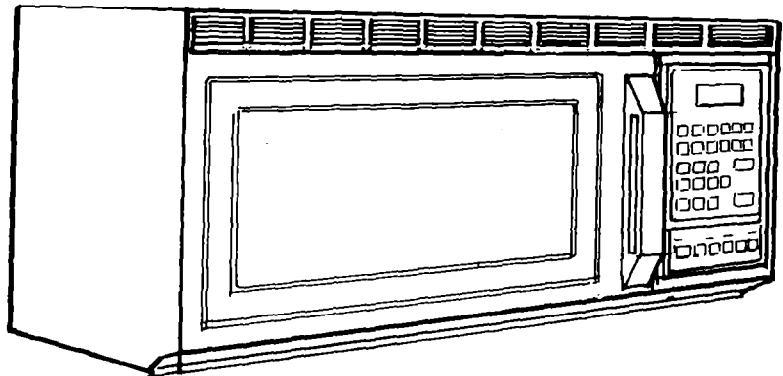


# **KitchenAid®**

# **Installation Instructions**



## **30" Built-In Microwave Hood**

### **IMPORTANT:**

Installer: Leave Installation Instructions with the Homeowner.

Homeowner: Keep Installation Instructions for future reference.

Save Installation Instructions for local electrical inspector's use.

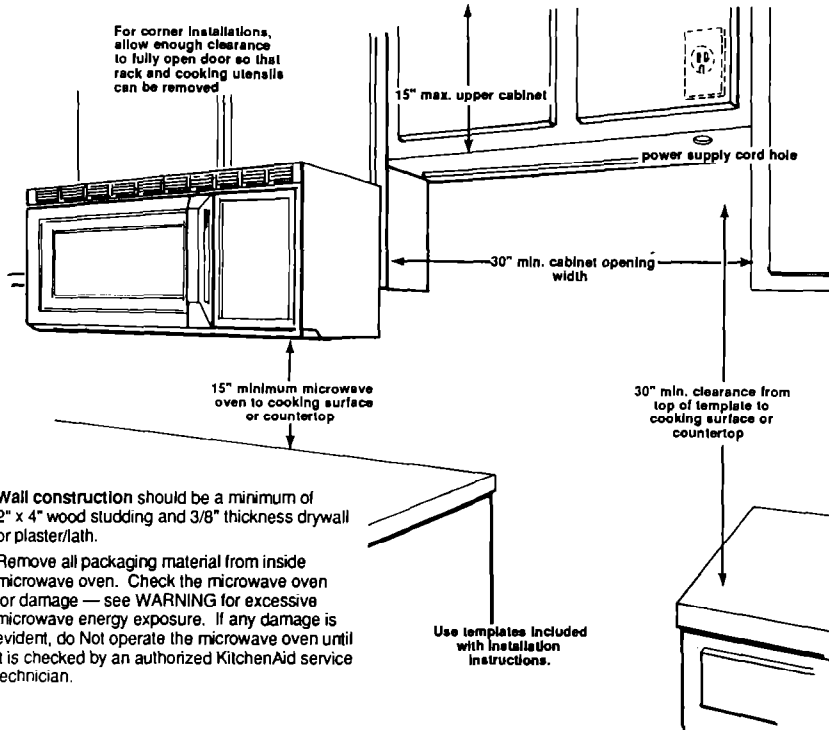
## Before you start...

**Proper installation is the installer's responsibility.** A qualified technician should install this microwave oven. Make sure you have everything necessary for correct installation. It is the responsibility of the installer to comply with the installation clearances specified on the serial/rating plate. The serial/rating plate is located behind the microwave oven door on the front frame of the microwave oven.

Check location where microwave oven will be installed. The wall must be strong enough to support the microwave oven weight of 150 lbs., plus the weight of any items placed inside the microwave or the upper cabinet. The location should be away from strong draft areas, such as windows, doors, and strong heating vents. The microwave oven should be located for convenient use in the kitchen.

Electrical ground is required. See Electrical requirements.

Remove all contents from the upper cabinet. **Important: Observe all governing codes and ordinances.**



### ⚠ WARNING

**Personal Injury Hazard**  
Two people are required to lift this microwave oven. Failure to use more than one person during installation may result in personal injury.

### ⚠ WARNING

**Personal Injury or Property Damage Hazard**

- This microwave oven must be mounted against and supported by a flat, vertical wall.
- This microwave oven must be attached with two lag screws to a minimum of one, vertical 2" x 4" wall stud.
- Do Not mount microwave oven to an island or peninsula cabinet.
- The microwave oven top and rear supporting structures must be capable of supporting 150 lbs., plus the weight of any items placed inside the microwave oven or upper cabinet.

Failure to mount the microwave oven as instructed could result in personal injury and/or property damage.

### ⚠ CAUTION

**Property Damage Hazard**  
Place a portion of carton or another heavy material over the countertop and range before installing the microwave oven. Do Not use a plastic cover. Failure to protect cooking surface or countertop could result in property damage.

### NOTE:

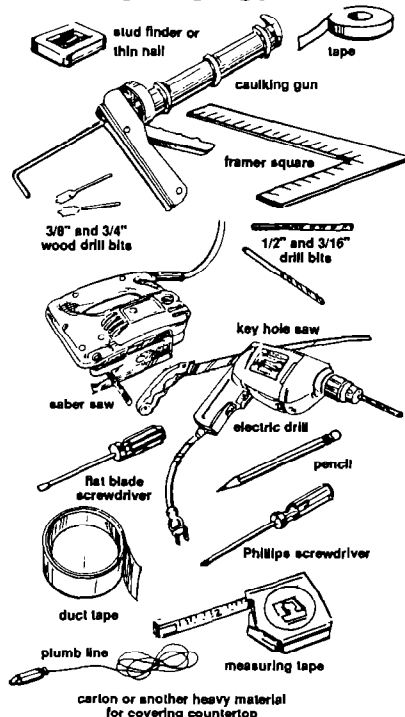
It is the customer's responsibility to:

- contact a qualified electrical installer.
- assure that electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70-latest edition, and local codes and ordinances.

### NOTE:

Do Not use this microwave oven for commercial purposes. This microwave oven is designed for household use only.

## Tools and materials needed for installation:



Special hardware and tools are required for brick or masonry walls.

At least four anchor bolts must be anchored into the wall and the mounting area must be capable of meeting the 150 lb.-weight requirement.

### ⚠ WARNING

**Electrical Shock Hazard**

- Take special care when drilling holes into the wall. Electrical wires may be concealed behind the wall covering and contact with them could result in electrical shock.
- Locate any electrical circuits that could be affected by the installation of this product and disconnect power circuit.

Failure to do so could result in electrical shock.

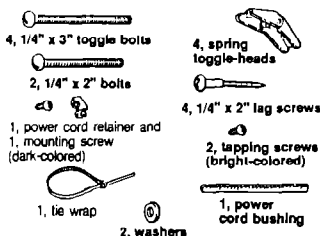
### ⚠ WARNING

**Excessive Microwave Energy Exposure**

- Do Not attempt to operate this 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 accumulate on sealing surface of microwave oven door.
- Do Not operate microwave oven if it is damaged.
- The microwave oven door must close properly to provide safe operation. Do Not use microwave oven if door is bent; hinges and latches are broken or loose; or door seals, sealing surfaces or glass is broken.
- The microwave oven should only be adjusted and repaired by a qualified repair person.
- Have a qualified repair person check for microwave leakage if a repair is made.

Failure to use microwave oven except as instructed may result in exposure to excessive microwave energy.

## Parts supplied for installation:



# Electrical requirements

Electrical ground is required on this appliance.

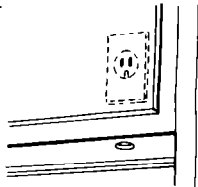
## ⚠ WARNING

### Electrical Shock Hazard

- Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded. Improper connection of the equipment-grounding conductor can result in electrical shock.
- This appliance must be properly grounded.
- Failure to do so may result in electrical shock or other personal injury.
- Do Not use an extension cord with this appliance. Such use may result in a fire, electrical shock or other personal injury.
- Do Not have a fuse in the neutral or grounding circuit. This could result in electrical shock or other personal injury.

**IMPORTANT:** Save Installation Instructions for local electrical Inspector's use.

A 120-volt, 60-Hz, AC only, 15- or 20-ampere, fused electrical supply (located in the upper cabinet as close as possible to the microwave oven) is required. (Time-delay fuse or circuit breaker is recommended.) It is recommended that a separate circuit serving only this appliance be provided.



### Recommended grounding method

Do Not, under any circumstances, remove the power supply cord grounding prong.

For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord having a 3-prong grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-prong grounding type wall receptacle, grounded in accordance with the National Electrical Code, ANSI/NFPA 70-latest edition, and local codes and ordinances. (See Figure 1.) If a mating wall receptacle is not available, it is the personal responsibility and obligation of the customer to have a properly grounded, 3-prong wall receptacle installed by a qualified electrician.

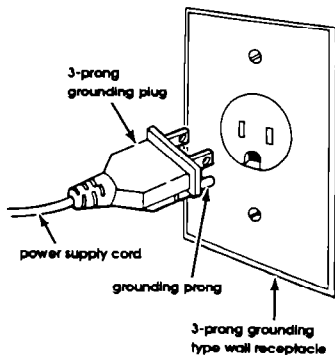


Figure 1

# Venting requirements

Ductwork needed for Installation is not Included. Wall and roof caps used must have back-draft damper.

## ⚠ WARNING

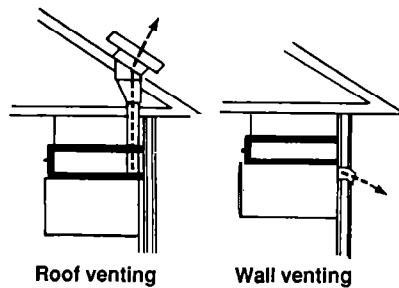
### Fire Hazard

Venting system must terminate to the outside. Do Not terminate the ductwork in an attic or other enclosed space. Do Not use 4" laundry-type wall caps. To do any of the above may result in a fire.

Determine which venting method (roof-venting, wall-venting or ventless) you need to use. This microwave oven is equipped for roof- or wall-venting installation. Some models can not be installed using the ventless (recirculating) method.

The length of the ductwork and number of elbows should be kept to a minimum to provide efficient performance. The size of ductwork should be uniform. Do Not install two elbows together. Use duct tape to seal all joints in the duct system. Ductwork can terminate either through the wall or roof. Use caulking to seal exterior wall or roof opening around cap. Figures 2 - 5 show common venting methods and types of materials needed.

Note: If the rear exhaust method is chosen, be sure that there is proper clearance within the wall for the exhaust duct.



Roof venting Wall venting

Figure 2

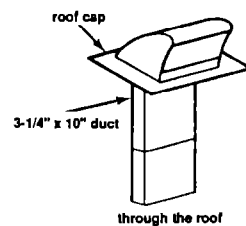


Figure 3



Figure 4

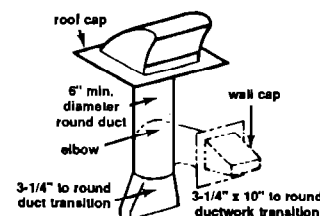
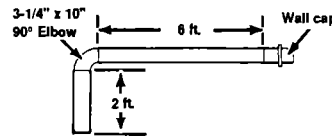


Figure 5

### Recommended duct length

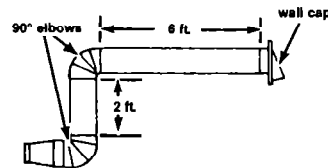
Use 3-1/4" x 10" or 6" duct. The total length of the duct system including straight duct, elbows, transitions, wall or roof caps must not exceed the equivalent of 140 feet of 3-1/4" x 10" rectangular or 6" diameter round duct. For best performance, use no more than three 90° elbows. To calculate the length of system you need, add the equivalent feet for each duct piece used in the system. See the following example:

#### 3-1/4" x 10" duct system



- 6" to 3-1/4" x 10" transition = 25 ft.
- 1 - 90° elbow = 40 ft.
- 1 - wall cap = 8 ft.
- 8 feet straight = 8 ft.
- Length of 3-1/4" x 10" system = 73 ft.

#### 6" duct system



- 1 - transition = 5 ft.
- 2 - 90° elbows = 20 ft.
- 1 - wall cap = 40 ft.
- 8 feet straight = 8 ft.
- Length of 6" system = 73 ft.

### Recommended standard fittings

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

If the existing duct is round, a rectangular-to-round adapter must be used and a rectangular 3" extension duct between the damper assembly and the adapter must be installed to prevent sticking of the exhaust damper.

# Venting preparation

## ⚠ WARNING

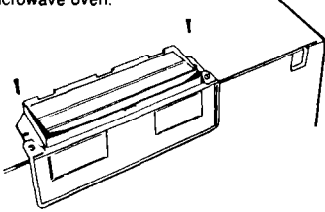
### Electrical Shock Hazard

- Do not pull or stretch blower wiring. Pulling and stretching blower wire could result in electrical shock.
- Reinsert wires in clips before reinstalling blower unit into microwave oven. Failure to do so could result in electrical shock.

This microwave oven is shipped with the blower assembled for roof-venting installation. Adjustments must be made for wall-venting and ventless installation. Follow the instructions for preparing your microwave oven for the type of venting method you need.

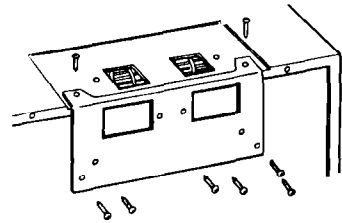
**Roof-vented installation:**

- a. Remove the three screws from the grille on the top front of the microwave oven. Remove the grille. Set grille and screws aside.
- b. Loosen rod retainer screws and remove wall mounting plate from the rear of the microwave oven.

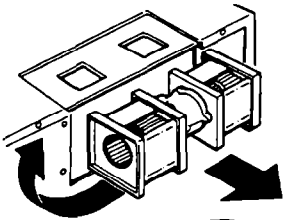


- c. Remove two, blower-plate screws. Slide damper/duct connector under blower plate. Align the damper/duct connector with the vent on top of the microwave oven. Use two tapping screws (bright-colored) to attach damper/duct connector to the microwave oven.

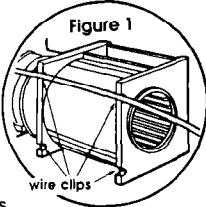
**Wall-vented installation:**



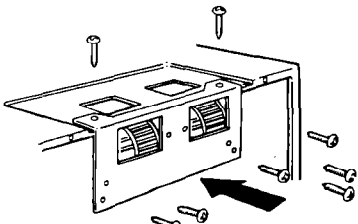
- a. Remove the three screws from the grille on the top front of the microwave oven. Remove the grille. Set grille and screws aside.
- b. Loosen rod retainer screws and remove wall mounting plate from the rear of the microwave oven.
- c. Remove and save the eight, blower-plate screws and blower plate.
- d. Carefully pull the blower unit out of the microwave oven, slipping wires out of clips.



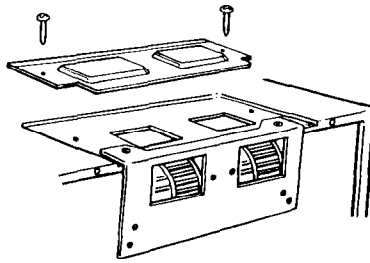
- e. Rotate blower unit end over end. Rotate the unit 90° so that the exhaust ports face the rear of the unit. Slip wires into clips at the upper left hand corner of blower unit. (See figure 1.)



- f. Place blower unit back into microwave oven.



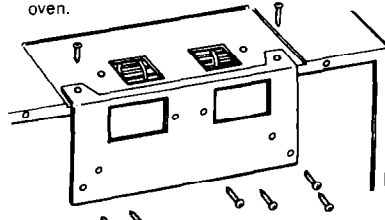
- g. Reattach the blower plate to microwave oven with the eight, blower-plate screws.



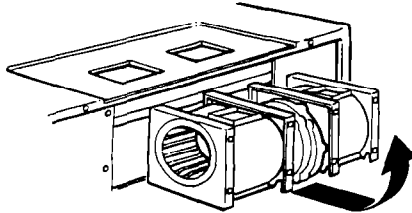
- h. Attach air intake cover with two tapping screws (bright-colored).

**Ventless (recirculating) installation:**

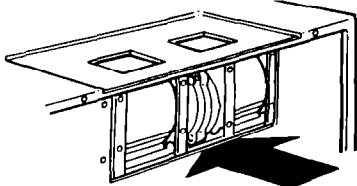
- a. Remove the three, recessed screws from the grille on the front of the microwave oven. Push the grille up or down slightly and pull the grille towards you to remove. Set grille and screws aside.
- b. Loosen rod retainer screws and remove wall mounting plate from the rear of the microwave oven.



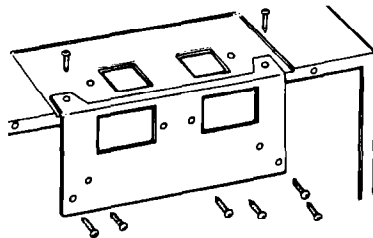
- c. Remove and save the eight, blower-plate screws and blower plate.
- d. Carefully pull the blower unit out of the microwave oven.



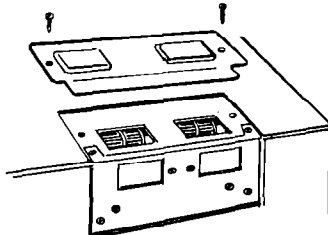
- e. Rotate blower unit 1/4 turn so that the exhaust ports face the front of the unit.



- f. Place blower unit back into microwave oven.



- g. Reattach the blower plate to microwave oven with the eight, blower-plate screws.



- h. Attach air intake cover with two tapping screws (bright-colored).

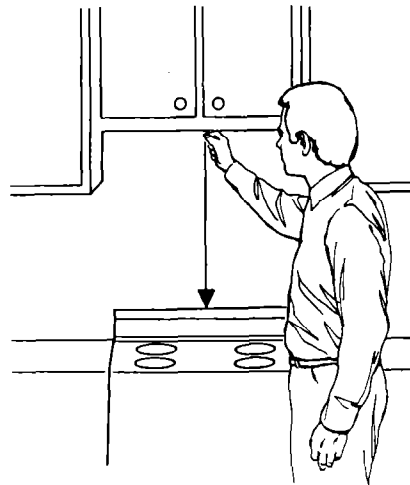
**Now start...**

with microwave oven in kitchen.

- 1.** Remove shipping materials and parts from inside microwave oven.

**CAUTION**  
**Floor Damage Hazard**  
 Slide range onto cardboard or hardboard before moving across floor. Failure to do so may damage floor covering.

- 2.** Disconnect and move the freestanding range out of the cabinet opening to provide easier access to the upper cabinet and back wall. Put a thick, protective covering over cooktop, drop-in range or countertop to protect from damage and dirt.

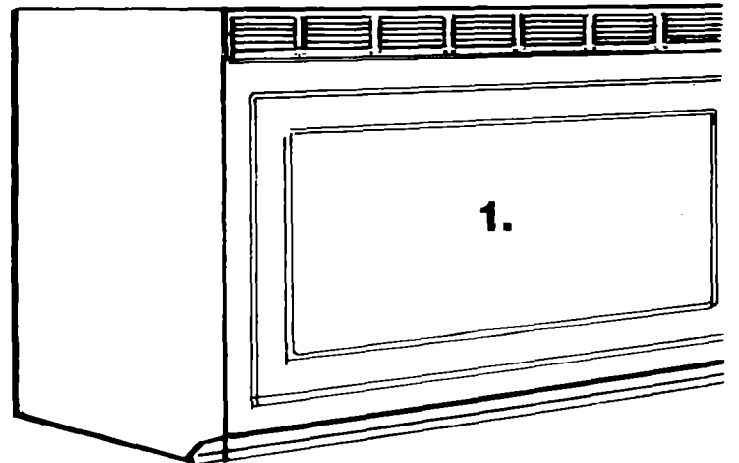
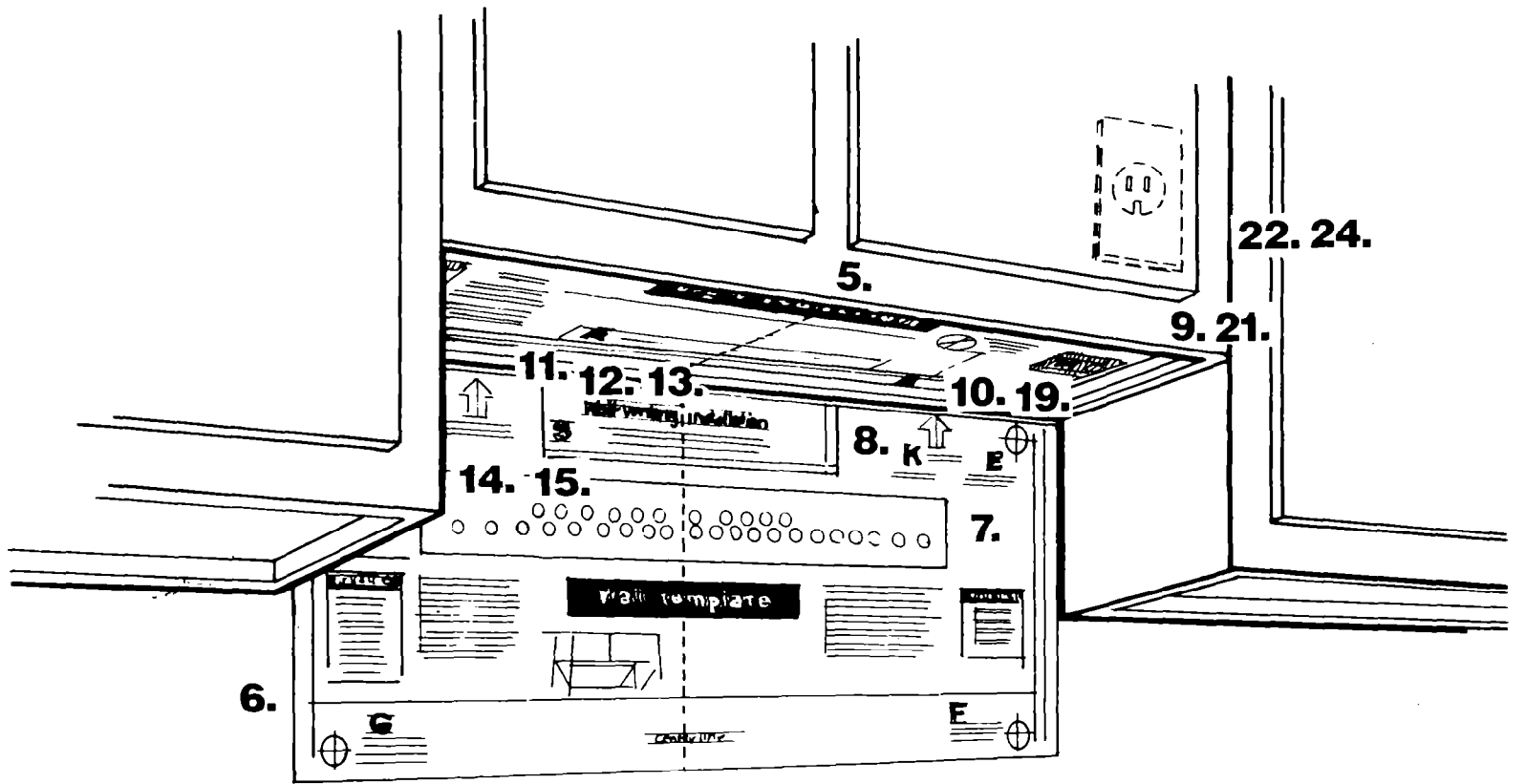


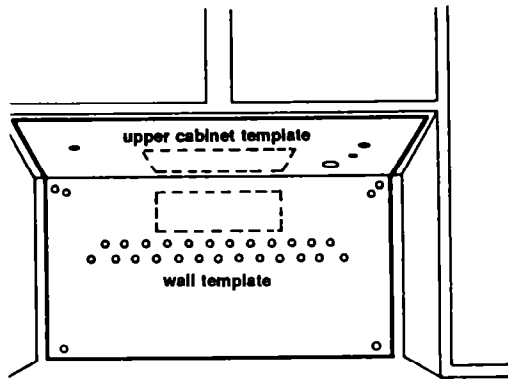
- 3.** Using a plumb line and measuring tape, determine and clearly mark a vertical center line on the wall in the area the microwave oven is to be installed. Find and mark the location of the wall stud(s) on the wall; then measure and mark their location on the wall template. If one wall stud cannot be found in the area the microwave oven is to be installed, consult a local building inspector. Do Not attempt to install microwave oven if a wall stud cannot be found.

- 4.** Center wall template in opening by lining up the plumb line on wall with center line on wall template. Make sure the minimum width is 30 inches and that the top of the wall template is located a minimum of 30 inches above the cooking surface. Securely tape or tack the wall template to the wall.

**Note:**

- If cabinets are not plumb, adjust the wall template to the cabinets.
- If front edge of cabinet is lower than the back edge, adjust the wall template so that it is level with the cabinet front.





## ⚠ WARNING

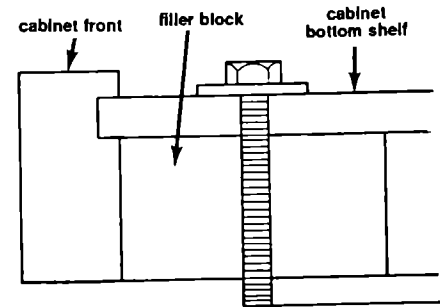
**Electrical Shock Hazard**  
Take special care when drilling holes into the wall. Electrical wires may be concealed behind the wall covering and contact with them could result in electrical shock.

**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 recessed frame, trim template so that it fits inside the recessed area. Align the center line of the upper-cabinet template with the center line of the wall template; then securely tape or tack the upper-cabinet template in place.

**6.** Find the points on the wall template labeled "D", "E", "F", and "G". Drill a 3/16" diameter hole at the points that are over a wall stud and a 3/4" diameter hole at the points that are over drywall.

**7.** Using a thin nail to probe the wall, find and clearly mark the two template points closest to the center of the wall stud(s) located within the marked "H" on the wall template. Drill a 3/16" hole into the wall stud(s) at the two stud marks.

**8.** Drill a 1/2" hole for the mounting rods at points "J" and "K" on the wall template.



**9.** Drill a 3/8" hole at points "L" and "M" on the upper-cabinet template. Place a washer over each 1/4" x 2" bolt. Then insert a bolt down through each hole in the upper cabinet bottom. **DO NOT TIGHTEN BOLTS AT THIS TIME.**

If bottom of upper cabinet is recessed 3/4" or more, align 2" x 2" filler blocks (not included) with the shaded squares marked "N" and "P" on the upper-cabinet template. Mark the cut-out position on the filler blocks through the upper-cabinet holes "L" and "M". Drill 3/8" diameter hole at the marks on filler blocks. Attach filler blocks to upper cabinet with the two 1/4" x 2" bolts and washers. DO NOT TIGHTEN BOLTS AT THIS TIME.

## ⚠ WARNING

**Electric Shock Hazard**  
Install power-supply cord bushing around hole drilled in a metal cabinet. Failure to do so could result in electrical shock.

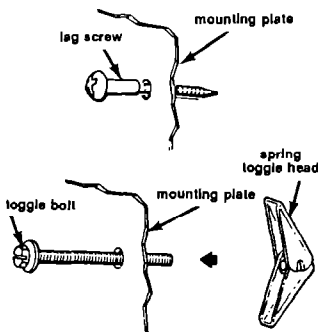
**10.** Cut out or drill a 2" diameter hole at the area marked "power-supply-cord hole" on the upper-cabinet template. If upper cabinet is metal, install power-supply-cord bushing around the edge of hole to prevent damage to the cord from the rough metal edge.

**11.** Determine which venting method (roof-venting, wall-venting, or ventless) you need to use. This microwave oven is manufactured for roof- or wall-venting installation. Some models can not be installed using the ventless (recirculating) method.

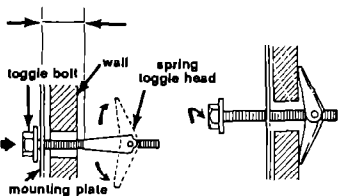
**12.** To vent through the roof, cut out the rectangular area marked "R" on the upper cabinet template. To vent through the wall, cut out the rectangular area marked "S" on the wall template. Remove the upper-cabinet and wall templates.

Remove the upper-cabinet and wall templates.

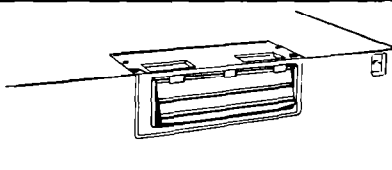
**13.** Install ductwork through the vent opening in the upper-cabinet or wall. Complete the venting system through the wall or roof according to the method needed. See Venting requirements and Venting preparation. Use caulking to seal exterior-wall or roof opening around exhaust cap.



**14.** Insert lag screws through the holes on the mounting plate ("H") where the mounting plate will be attached to a wall stud; insert toggle bolts at "D", "E", "F", and "G", where it will be attached to dry wall.

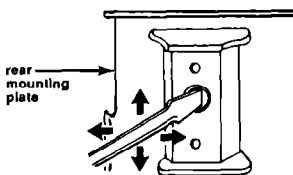


Attach a spring toggled head to the end of each toggle bolt. Leave at least one wall-thickness of space between the mounting plate and the end of the spring toggle head so that the spring toggle head can properly open on the other side of the wall.



**15.** If wall-vented installation is used, attach damper to rear of mounting plate. Align 3-1/4" x 10" duct with damper and see that damper moves freely.

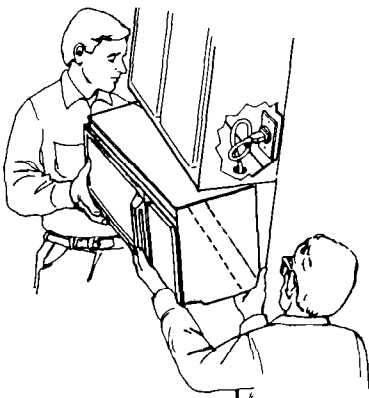
Position the mounting plate on the wall making sure that the top of the mounting plate is 3/16" below the bottom of the cabinet frame. Insert the toggle bolts and spring toggle heads through the dry-wall holes and start the lag screws through the wall-stud holes. Tighten bolts and screws to secure mounting plate to wall.



**16.** Insert a flat-blade screwdriver through turn-rod clearance holes in mounting plate and into retainers. Move screwdriver around to make sure the retainers move freely. If retainers do not move freely, loosen toggle bolts and lag screws, and readjust the mounting plate.

## ⚠ WARNING

**Personal Injury Hazard**  
Two people are required to lift this microwave. Failure to use more than one person during installation may result in personal injury.



**17.** Carefully lift the microwave oven and hang it on the two tabs at the bottom of the mounting plate. Reaching through upper cabinet, thread power cord through the power-cord hole in the bottom of the upper cabinet.

**18.** Swing the microwave oven upward so that the top of the oven meets the top of the mounting plate. Hold oven securely.

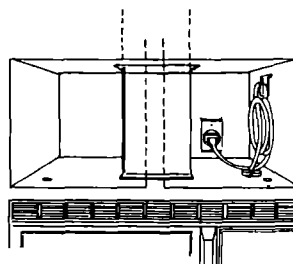


**19.** Using a flat-blade screwdriver, push in and turn the turn-rod screws clockwise until they are tight in rear, mounting-plate nuts. Check that the microwave is securely fastened to the mounting plate.

## ⚠ WARNING

**Personal Injury or Property Damage Hazard**  
Secure the microwave oven with the two mounting bolts inserted through the upper cabinet holes. Failure to do so could result in personal injury and/or property damage.

**20.** Tighten the bolts inserted in the upper cabinet holes until the gap between the upper cabinet and microwave oven is closed.



**21.** Mount the power-supply cord retainers as shown to the inside of the cabinet. Use power-supply-cord tie wraps to bundle the power-supply cord and secure it to the power-supply-cord retainers.

**22.** Reattach grille to the front of the microwave oven with the three grille screws.

**23.** Plug in the power supply cord.

**24.** Read your Use & Care Guide then check the operation of your microwave oven.

*To get the most efficient use from your new Microwave Hood, read your KitchenAid Use and Care Guide. Keep installation instructions and guide close to oven for easy reference.*

## If microwave oven does not operate...

Check that the circuit breaker is not tripped or the fuse blown.

Check that the power-supply cord is plugged into the wall receptacle.

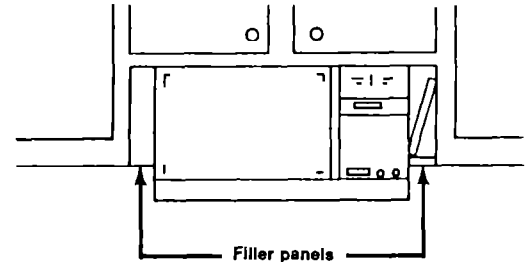
## If you need assistance...

When you call your dealer or service center, you will need the oven model number and serial number. Both numbers can be found on the serial/rating plate behind the oven door on the front frame.

## Accessory Kit

Accessory Kit No. 4158311-Black  
4158439-White

A filler panel kit is available from your KitchenAid parts dealer to use when installing this microwave oven in a 36"- or 42"-wide opening. The filler panels come in pairs and each panel is 3" wide.



### Accessory Kit No. 4158440

A smoke deflector kit for some models is available from your KitchenAid dealer to use when installing this microwave oven over cooking products with grill or griddle. See your Use and Care Guide or your KitchenAid dealer for details.

See your KitchenAid dealer for details.