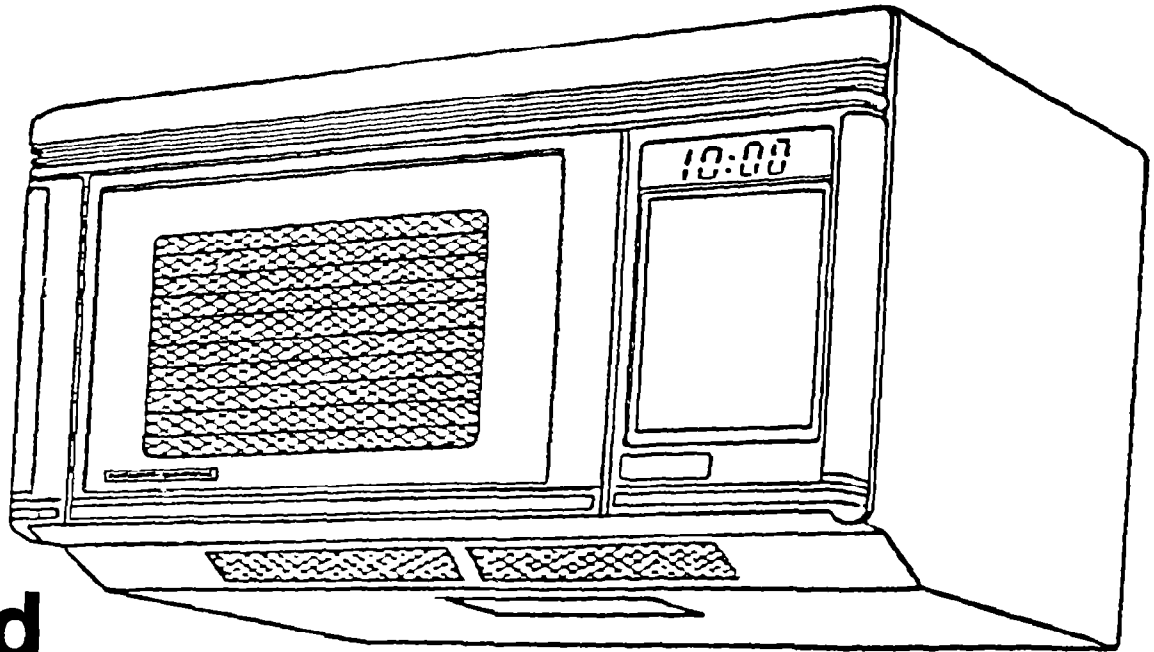


KitchenAid®

Installation Instructions

30" Built-In Microwave Convection 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.

READ THESE INSTRUCTIONS BEFORE YOU START TO INSTALL THIS UNIT.

KEEP INSTALLATION INSTRUCTIONS FOR FUTURE REFERENCE.

30" BUILT-IN MICROWAVE /HOOD

MODEL **KHMC106W**

INSTALLATION INSTRUCTIONS

CONTENTS:

Introduction	1
Mounting Space.....	1
Wall Construction	2
Electrical Grounding Instructions.....	3
Hood Exhaust Duct	4
Tools Recommended for Installation	5
Installation Hardware	5
Preparation of Carton	6
Preparation of Product.....	6
Ventilation System.....	7
Adapting Hood Fan Unit	7
Vertical Exhaust, Outside Ventilation.....	7
Horizontal Exhaust, Outside Ventilation	7
Recirculating, Non-Vented	9
Preparation of Wall and Top Cabinet.....	10
Mounting Templates	10
Wall and Top Cabinet.....	10
Preparation of Toggle Bolts	10
Product Installation.....	11
Mounting Plates	11
Mounting Product	11
Check List for Installation.....	13
Accessories	13

INTRODUCTION

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. Remove all contents from the upper cabinet.

Important: Observe all governing codes and ordinances.

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.

⚠ WARNING

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

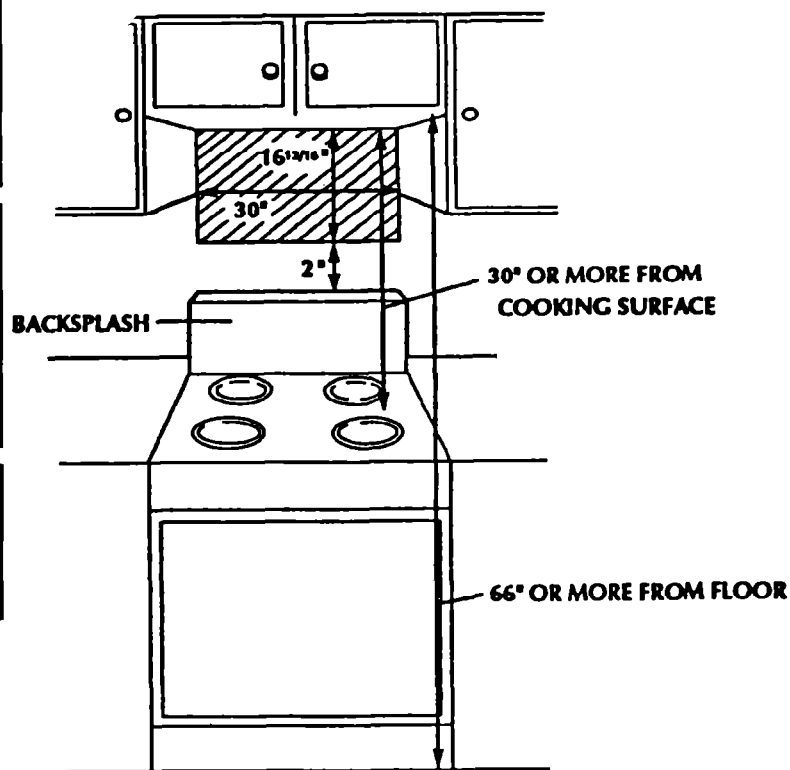
NOTE

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.



MOUNTING SPACE

This Microwave Oven/Hood system requires a mounting space on a wall as shown below:

⚠ 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.

For proper installation and servicing, a 2-inch space is necessary between the top of the range backsplash and the bottom of the Microwave Oven/Hood system.

WALL CONSTRUCTION

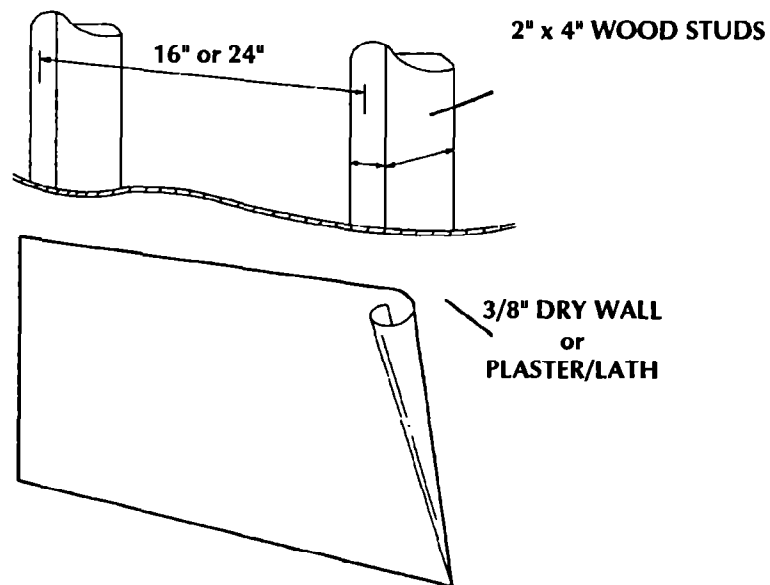
⚠ WARNING

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 127 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.

To find the location of the studs, one of the following methods may be used:

- A. Stud Finder -- a magnetic device which locates nails in the stud.
- B. Use a hammer to tap lightly across the mounting surface to find a solid sound. This will indicate a stud location.



The center of the stud can be located by probing the wall with a small nail to find the edges of the stud and then placing a mark halfway between the edges. The center of any adjacent studs will normally be 16" or 24" to either side of this mark.

NOTE: In the event that the unit will be unable to be supported by any stud, it will be necessary to use special care in the placement of the toggle bolts and top cabinet screws. See Wall Template for details. The top cabinet should be tested to ensure it is securely attached to the wall. Place extra weight up to 127 pounds inside the top cabinet to test the support.

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.

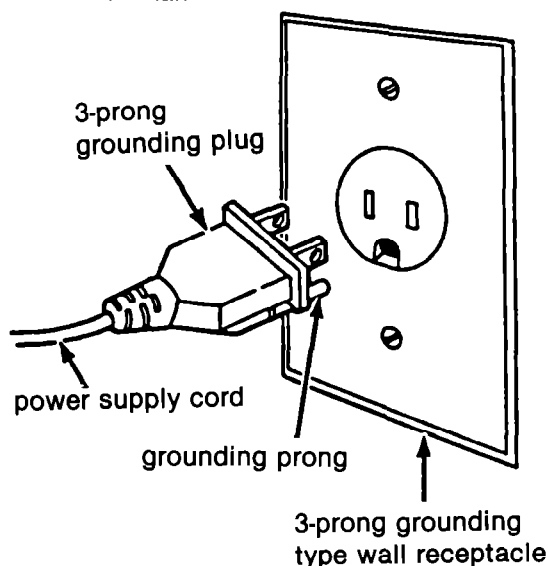


Figure 1

⚠ 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.

HOOD EXHAUST DUCT

When the hood is vented to the outside, a HOOD EXHAUST DUCT is required. All ductwork must be metal (do not use plastic duct). Check that all connections are made securely. Please read the following carefully:

⚠ 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.

EXHAUST CONNECTION: The hood exhaust has been designed to connect to a standard 3-1/4" x 10" rectangular duct.

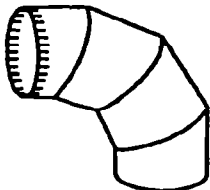

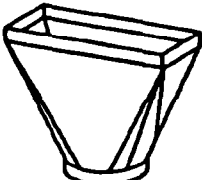
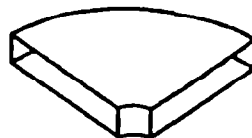
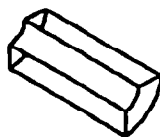
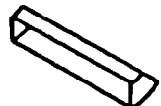
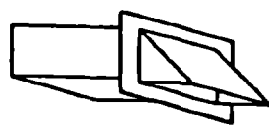
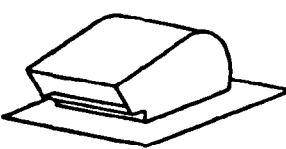
If round duct is required, a rectangular-to-round adaptor must be used. do not use a duct that is less than 6" in diameter.

REAR EXHAUST: If a rear or horizontal exhaust is to be used, care should be taken to align the exhaust with the space between the studs, or wall should be prepared at the time it is constructed by leaving enough space between wall studs to accommodate exhaust.

MAXIMUM DUCT LENGTH: For satisfactory air movement, the total duct length of 3-1/4" x 10" rectangular or 6" diameter round duct should not exceed 140 feet.

ELBOWS, ADAPTORS, WALL, ROOF CAPS, etc. present additional resistance to air flow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total length, add the equivalent lengths of all transitions and adaptors plus the length of all straight duct sections. The diagram below shows the approximate feet of equivalent length of some typical ductwork parts. Use the values in parentheses for calculating air flow resistance equivalent, which should total less than 140 feet.

EXHAUST DUCT

		
90° ELBOW (10 FT.)	45° ELBOW (5 FT.)	ADAPTOR (5 FT.)
		
10° WIDE ELBOW (10 FT.)	90° ELBOW (25 FT.)	45° ELBOW (5 FT.)
		
WALL CAP (40 FT.)	ROOF CAP (24 FT.)	

WALL AND ROOF CAPS USED MUST HAVE BACK-DRAFT DAMPER.

TOOLS RECOMMENDED FOR INSTALLATION

Phillips Screwdriver

Electric Drill

1/2", 5/8" and 3/32" Drill Bits

1-1/2" Wood Bit or metal hole cutter (if metal cabinet is used)

Saw to cut exhaust opening (if needed)

Protective drop cloth for product and range. You may use part of the carton for protection.

Knife or single edge razor

Pencil

Measure

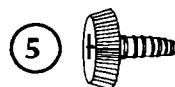
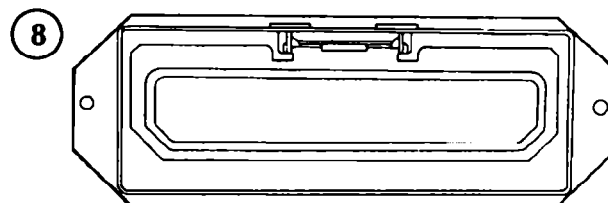
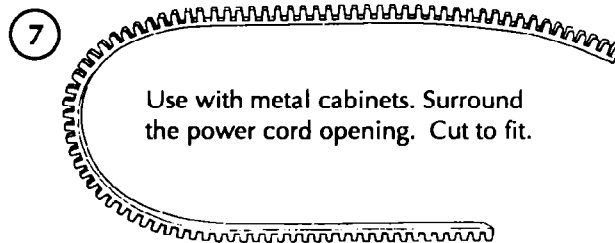
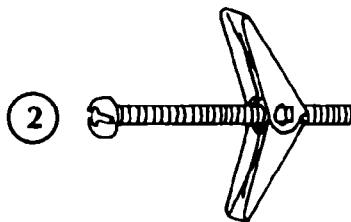
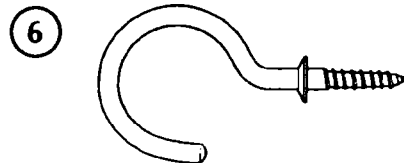
Tape

INSTALLATION HARDWARE

The installation hardware (items 1- 8) packed with the product should contain the following:

ITEM	NAME	QUANTITY
1	Wood Screw 5 x 30 mm*	6
2	Toggle Bolt 3/16 inch*	4
3	Top Cabinet Screw 5 x 55 mm	2
4	Flat Washer 30 mm diameter	2
5	Decorative Screw	2
6	Power Cord Hanger	1
7	Grommet	1
8	Exhaust Adaptor Assembly	1

*There may be leftover screws or toggle bolts depending on installation.



PREPARATION OF CARTON

Utilization of the carton may make installation easier.

1. Remove product and shipping pads.

CHECK THE PRODUCT FOR DAMAGE

Visually check the product after removing from carton. Remove all packing material from inside the oven cavity. Check the oven for any damage, such as misaligned door, damaged gaskets around door or dents inside the oven cavity or on the door. If there is any damage, please do not operate the oven until it has been checked by your KitchenAid Dealer and any necessary repairs made.

PREPARATION OF PRODUCT

CAUTION

1. Rest the product on its side as shown in Figure 1. Use a portion of the carton or some other material to protect the outercase. Failure to do so could result in damage to the outercase of the unit.
2. Pull the two slider levers to release the mounting plate hooks. Remove the mounting plates from the back of the product by gently pulling each plate toward you and sliding it to the right. Familiarize yourself with the operation of the upper hooks and the slider levers so you will be aware of the proper procedure for mounting the unit to the wall.

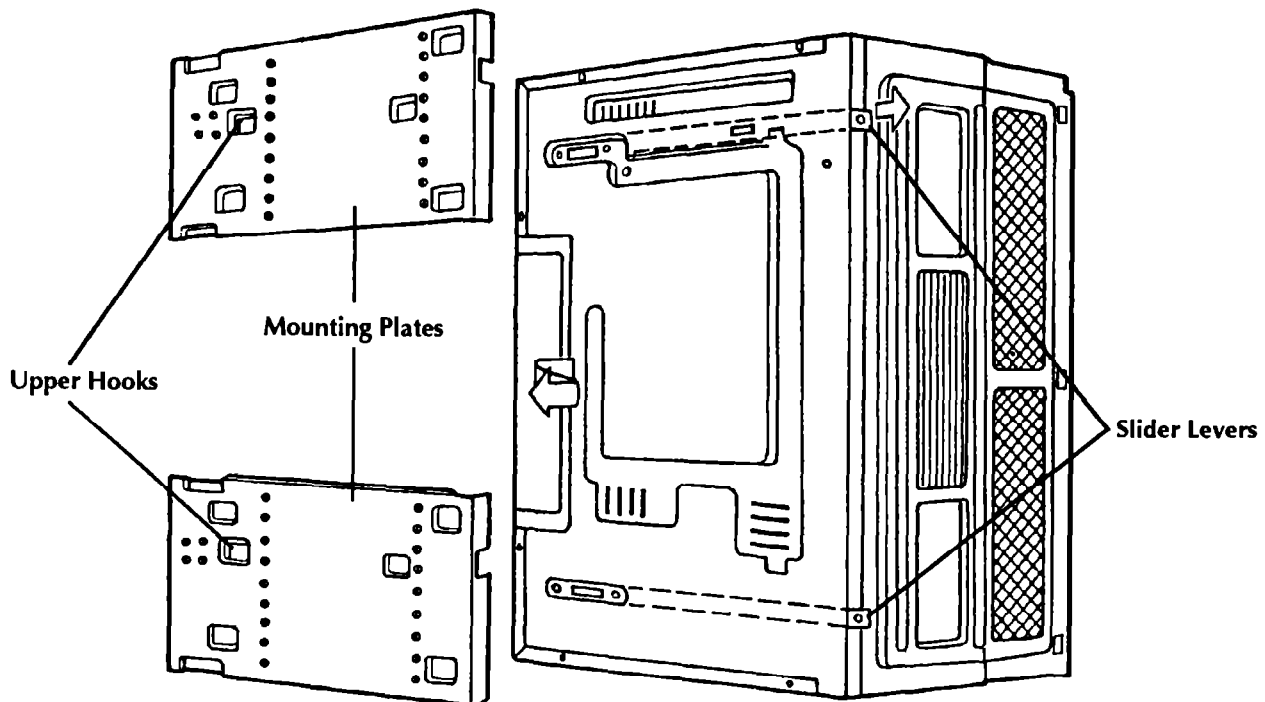


Figure 1.

VENTILATION SYSTEM

THIS MICROWAVE OVEN/HOOD SYSTEM IS DESIGNED FOR ADAPTATION TO THREE TYPES OF HOOD VENTILATION SYSTEMS:

- A. **Vertical Exhaust** -- outside ventilation
- B. **Horizontal Exhaust** -- outside ventilation
- C. **Recirculating** -- non-vented, ductless

Select the type required for your installation.

Recirculating (ductless) installation requires **CHARCOAL FILTER** .

Your Microwave Oven/Hood System is preset for **VERTICAL** Exhaust; follow the procedure below (A) to attach the Exhaust Adaptor Assembly if your installation will use a vertical exhaust system. If you will need to use a **HORIZONTAL** exhaust system, proceed to step B; or for a **RECIRCULATING** system, proceed to page 9 (step C).

VERTICAL EXHAUST: Outside Ventilation

- A. The unit is shipped assembled for vertical exhaust. Remove the 2 tapping screws from the fan cover. Attach the Exhaust Adaptor to the fan cover on the top of the outercase cabinet with the 2 tapping screws provided as shown in **Figure 2**. Proceed to **Preparation of Wall and Top Cabinet** on page 10.

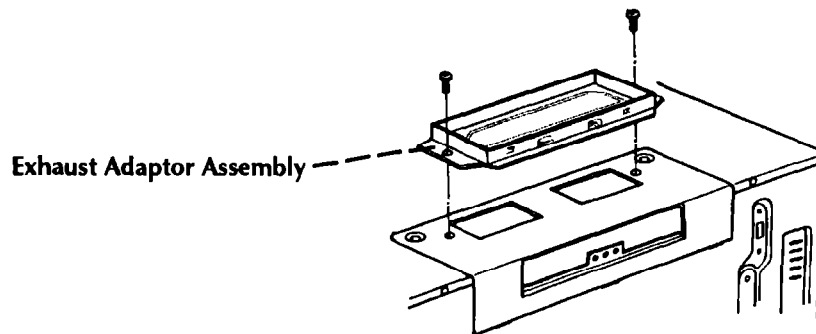


Figure 2

B. HORIZONTAL EXHAUST: Outside Ventilation

1. Remove and save 3 screws.
Remove fan cover bracket shown in **Figure 3**.

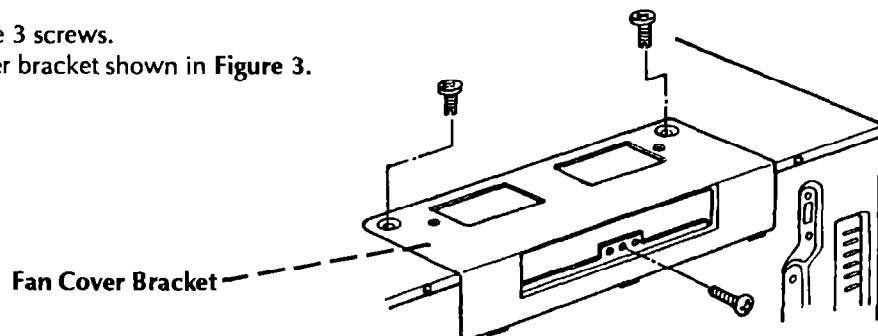


Figure 3

HORIZONTAL EXHAUST (Continued)

2. Withdraw hood fan unit upward carefully (Fig.4).

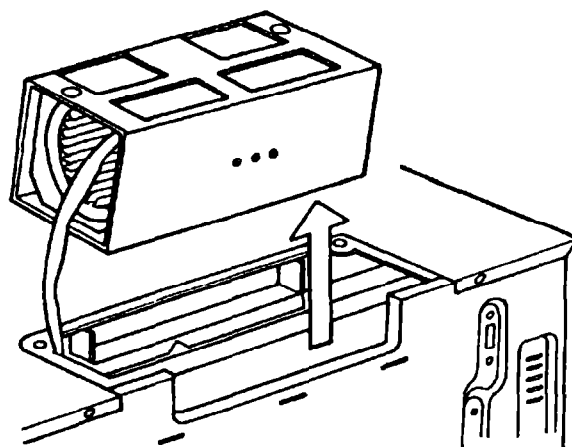


Figure 4

3. Rotate hood fan unit 1/4 turn as shown in Figure5

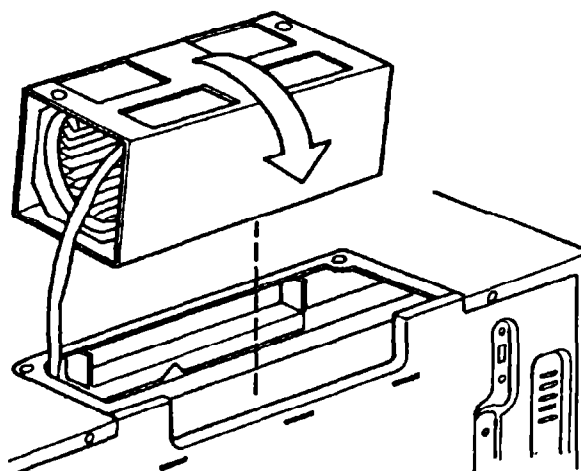


Figure 5

4. Replace hood fan unit into the oven unit.
Be careful not to pinch the lead wire between the inner bracket and the hood fan unit (Fig.6).

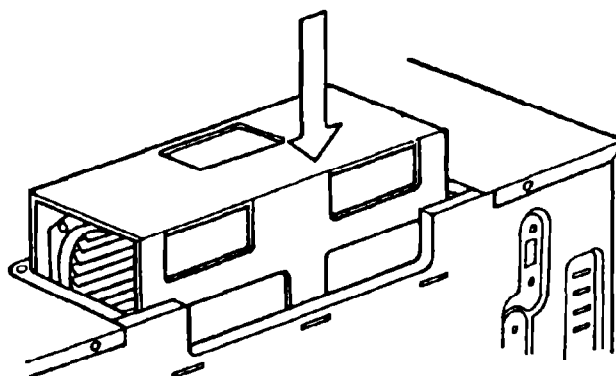


Figure 6

HORIZONTAL EXHAUST (Continued)

5.

Replace the fan cover bracket.

Make sure the fan blades are visible through the rear openings in the cover before proceeding.

Attach cover to unit with 3 screws (Fig. 7).

The hood fan unit is now rotated for horizontal exhaust operation

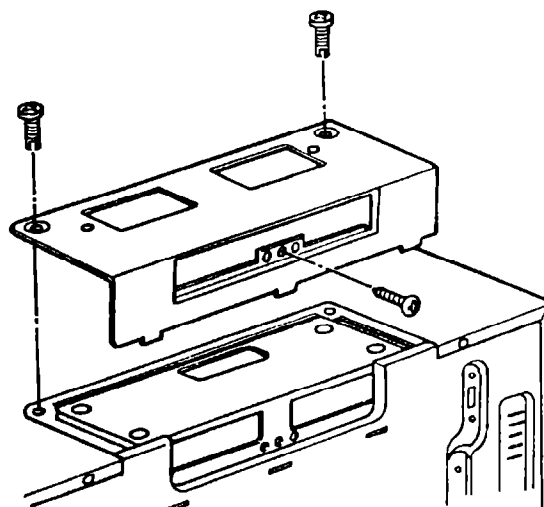


Figure 7

See page 11 for exhaust adaptor assembly installation instructions.

C.

RECIRCULATING: Non-Vented, Ductless Operation

1. Remove and save 3 screws and fan cover bracket as shown in Figure 3, page 7.
2. Withdraw hood fan unit (Figure 4, page 8)
3. Reposition lead wire by carefully pulling the end attached to the fan unit out of the left side of the holder and re-positioning it to the right side as shown in Figure 8.
4. Rotate hood fan unit so exhaust faces toward front of oven. The fan blades should be visible through the openings facing toward the front of the oven.

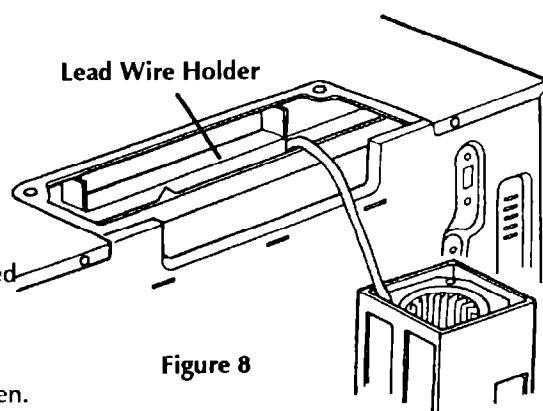


Figure 8

5. Replace hood fan unit into unit as shown in Figure 9

Be careful not to pinch the lead wire between the inner bracket and the hood fan unit.

6. Replace the fan cover bracket.

If the cover does not fit properly, the hood fan unit is improperly placed. Check steps 3 and 4 again.

7. Attach the cover to the oven unit with 3 screws as shown in Figure 3, page 7.

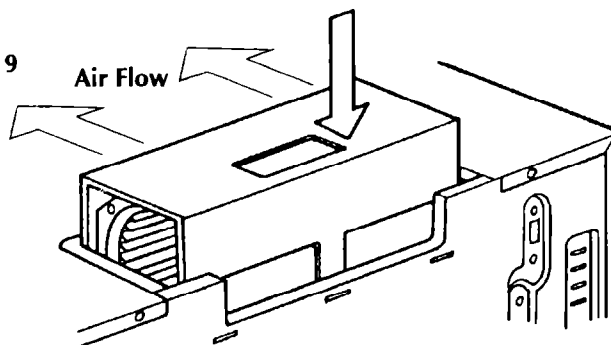


Figure 9

NOTE: 1. The exhaust adaptor assembly is not required for recirculating exhaust.

PREPARATION OF WALL AND TOP CABINET

MOUNTING TEMPLATES

THIS PRODUCT CANNOT BE PROPERLY INSTALLED WITHOUT REFERRING TO THE MOUNTING INSTRUCTIONS FOUND ON BOTH TEMPLATES.

READ AND FOLLOW MOUNTING INFORMATION ON BOTH **TOP CABINET** AND **WALL** TEMPLATES.

WALL AND TOP CABINET

⚠ WARNING

Personal Injury or Property Damage Hazard

The mounting area on the top cabinet and wall must be capable of supporting a minimum of 127 pounds. Failure to follow these instructions could result in personal injury and/or property damage.

1. If the wall is not flat, use spacers to fill gaps. Mounting plates must be flat for proper installation.
2. Wall space for installation should be the same as the wall template. Make sure the top of the wall template is at least 66" from the floor and at least 30" from the cooking surface.
For proper installation and servicing, the bottom of the Microwave Oven/Hood system should be at least 2" above the backsplash of the range.

NOW REFER TO THE WALL AND TOP CABINET TEMPLATES.

PRODUCT INSTALLATION MOUNTING PLATES

⚠ WARNING

Electrical Shock Hazard

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

1. Separate toggle bolts from toggle nuts.
2. Insert one toggle bolt into each of the selected holes in the mounting plates (these holes correspond to holes in areas **A, B, C and D** of the **Wall Template**) and put the toggle nuts onto the toggle bolts (**Fig. 10**). If a hole is located in a stud, do not use a toggle bolt. Use a wood screw. If A, B, C, and D are not located in studs, follow template instructions for E and F.
3. Position the mounting plates with the toggle bolts attached at the wall location and insert toggle nuts and bolts through the holes in the wall with the toggle nuts closed. (**Fig. 11**). Use wood screws to attach mounting plate to studs.

NOTE: Before insertion, be sure you leave a space more than the thickness of the wall between the mounting plate and the end of each of the toggle nuts (in the closed position). If you do not leave enough space, the toggle nut will not be able to open on the other side of the wall. Also, once a toggle nut opens, it cannot be withdrawn from the hole, therefore make sure all toggles are in the correct position **before** insertion.

4. Align the mounting plates carefully and hold in position while tightening toggle bolts. Pull toggle bolt toward you and turn clockwise to tighten (**Fig. 12**).

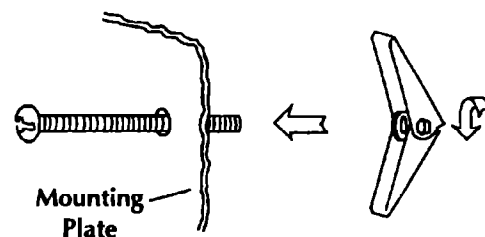


Figure 10

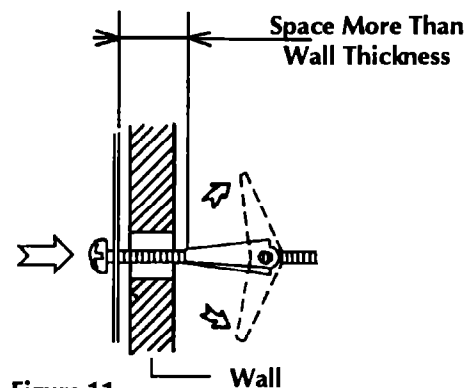


Figure 11

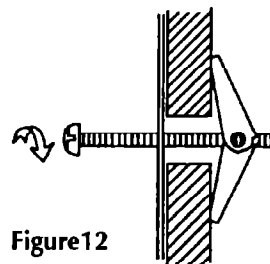


Figure 12

5. If horizontal exhaust is used, attach the exhaust adaptor assembly to each of the mounting plates by aligning the holes on the assembly with the tabs on the plates, holding the assembly in place and bending the tabs to secure the assembly to the plates (Fig. 13).

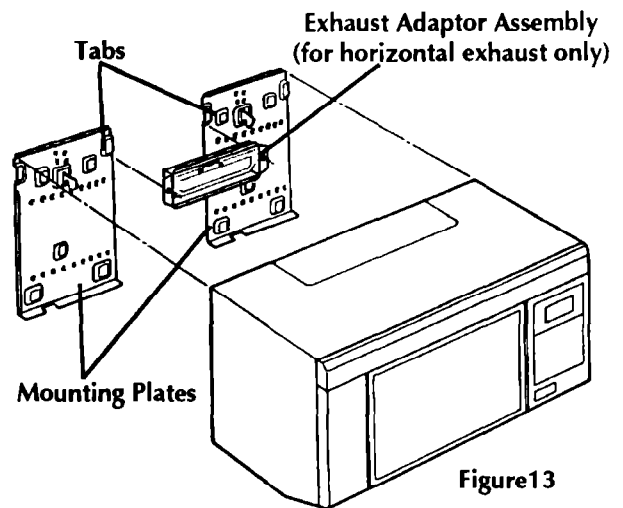


Figure13

⚠ 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.

MOUNTING PRODUCT

To attach the Microwave Oven/Hood system to the mounting plates:
Place the product on the top of the protected range cooking surface.

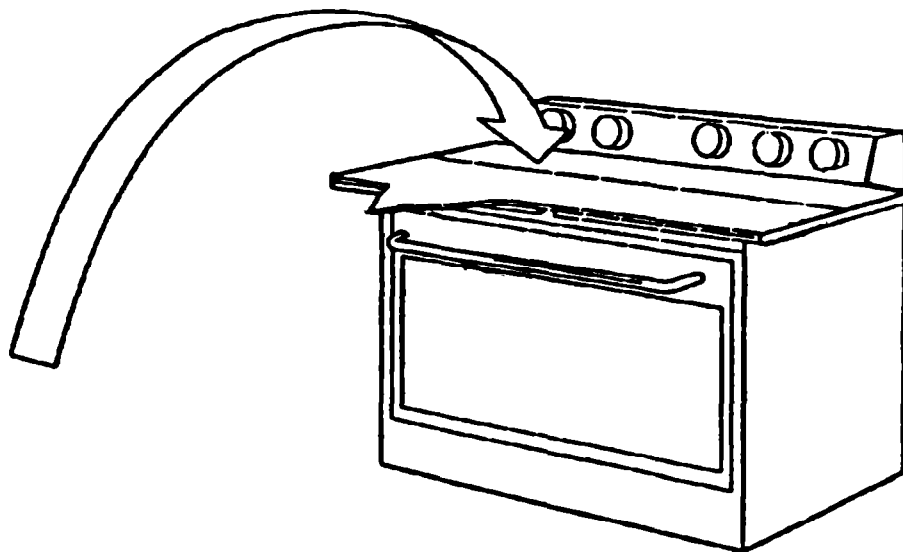


Figure 14

Thread the power supply cord through the hole made at the bottom of the top cabinet.

⚠ 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.

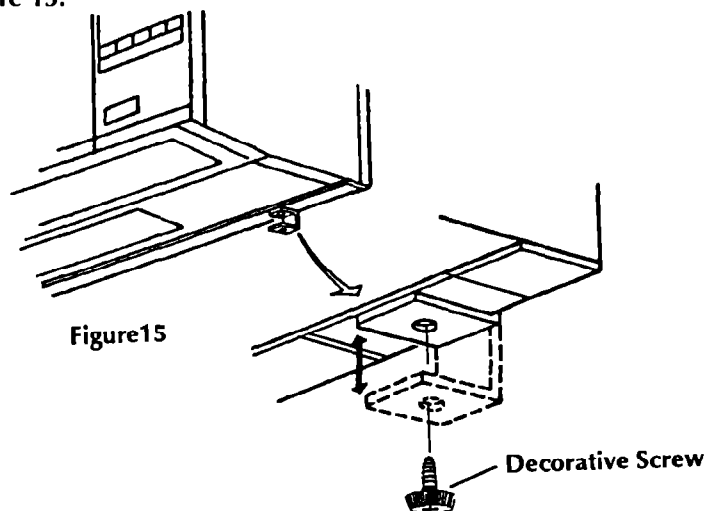
Hang the unit on the lower edge of the mounting plates. Rotate the unit upward until it engages the upper hooks. See **Figure 14**. Take care that the power cord is able to clear the edge of the hole as the unit is rotated upward. (In the case of a non-recessed bottom in the top cabinet, the hole for the cord may need to be enlarged.) Remove the carton portions.

⚠ WARNING

Personal Injury Or Property Damage Hazard

Both upper hooks must be engaged and the unit must be secure before you remove your support. Failure to do so could result in personal injury or property damage.

Raise slider levers at the bottom of the unit up against the unit and insert **decorative screws (2)**. Tighten each screw with a Phillips head screwdriver. See **Figure 15**.



8. Use the two top cabinet mounting screws (C) and flat washers (D), supplied in the installation hardware, to attach the unit to the top cabinet. See Figure16. Note: If mounting plates were installed using only toggle bolts, use the adjusting screws to attach the unit to the top cabinet.

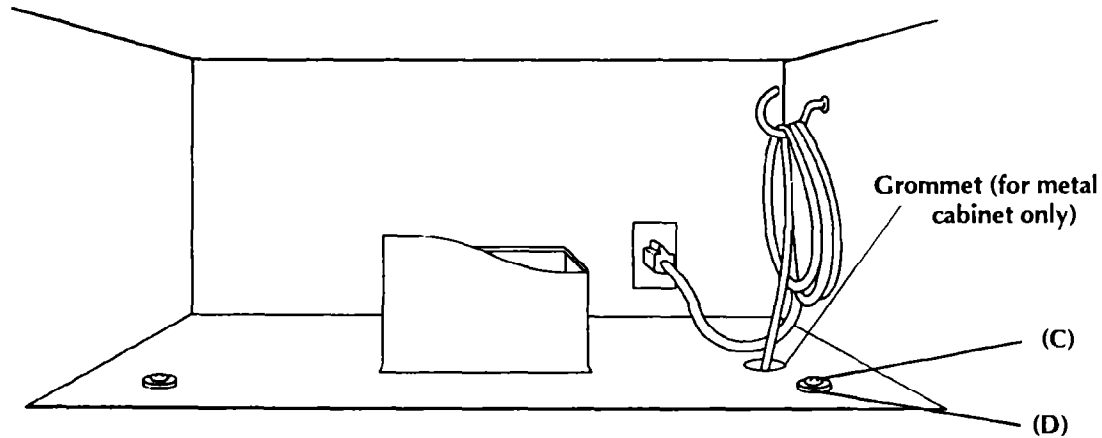


Figure16

9. Make a bundle of the power supply cord and attach it to the inside of the cabinet using the cord hanger. A short power cord is provided to reduce the risks resulting from contacting the cooking surface or from becoming tangled.

⚠ 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.

CHECK LIST FOR INSTALLATION

1. Make sure the unit has been installed according to the instructions.
2. Remove all packing material from the oven.
3. Plug in the power cord.
4. Read the Use and Care Guide Manual.

CHECK LIST FOR INSTALLATION

1. Make sure the unit has been installed according to the instructions.
2. Remove all packing material from the oven.
3. Plug in the power cord.
4. Read the **Operation Manual**.
5. Keep these **Installation Instructions** for the local electrical inspector's use.

4174872

PART NO. KHMC106W

PRINTED IN U.S.A.