Installation Instructions

Over the Range Microwave Oven

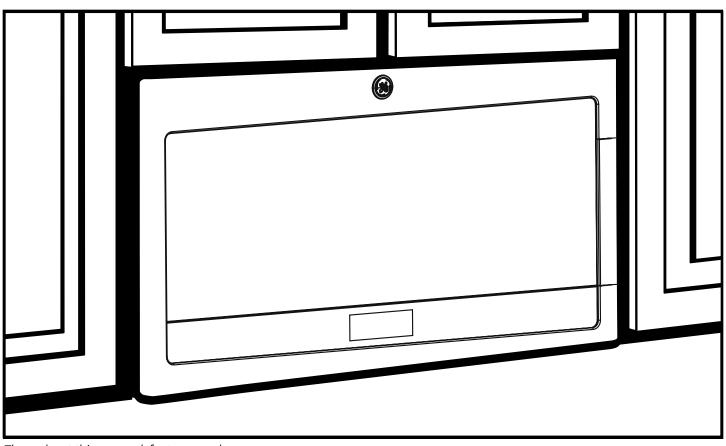
PVM2188

Questions? Call 1-800-561-3344 or Visit our Website at: GEAppliances.ca

BEFORE YOU BEGIN

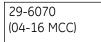
Read these instructions completely and carefully.

- **IMPORTANT** Save these instructions for local inspector's use.
- **IMPORTANT** Observe all governing codes and ordinances.
- Note to Installer Be sure to leave these instructions with the consumer.
- Note to Consumer Keep these instructions for future reference.
- **Skill level** Installation of this appliance requires basic mechanical and electrical skills.
- Proper installation is the responsibility of the installer.
- Product failure due to improper installation is not covered under the warranty.



Throughout this manual, features and appearance may vary from your model.

READ CAREFULLY. KEEP THESE INSTRUCTIONS.



Installation Instructions

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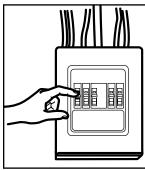
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IMPORTANT SAFETY INSTRUCTIONS

A qualified electrician must perform a ground continuity check on the wall receptacle before beginning the installation to ensure that the outlet box is properly grounded. If not properly grounded, or if the wall receptacle does not meet electrical requirements noted (under ELECTRICAL REQUIREMENTS), a qualified electrician should be employed to correct any deficiencies.

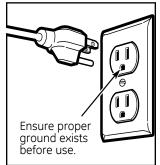


AWARNING:

Risk of Electric Shock. Can cause injury or death: Remove house fuse or open circuit breaker before beginning installation to avoid severe or fatal shock injury.

AWARNING: Risk of Electric Shock. Can cause injury or death: THIS APPLIANCE MUST BE PROPERLY GROUNDED to avoid severe or fatal shock.

120 V Models



The power cord of this appliance is equipped with a three-prong (grounding) plug which mates with a standard three-prong (grounding) wall receptacle to minimize the possibility of electric shock hazard from this appliance. Where a standard two-prong wall receptacle is encountered, it must be replaced with a properly grounded three-prong wall receptacle, installed by a qualified electrician.

AWARNING: Risk of Electric Shock. Can cause injury or death: DO NOT, under any circumstances, cut, deform or remove any of the prongs from the power cord. Do not use with an extension cord. Failure to comply may cause fire.

ACAUTION: For personal safety, the mounting surface must be capable of supporting the cabinet load, in addition to the added weight of this 63–85 pound (28.6-38.5 kg) product, plus additional microwave oven loads of up to 50 pounds (22.7 kg) or a total weight of 113–135 pounds (51.2-61.2 kg).

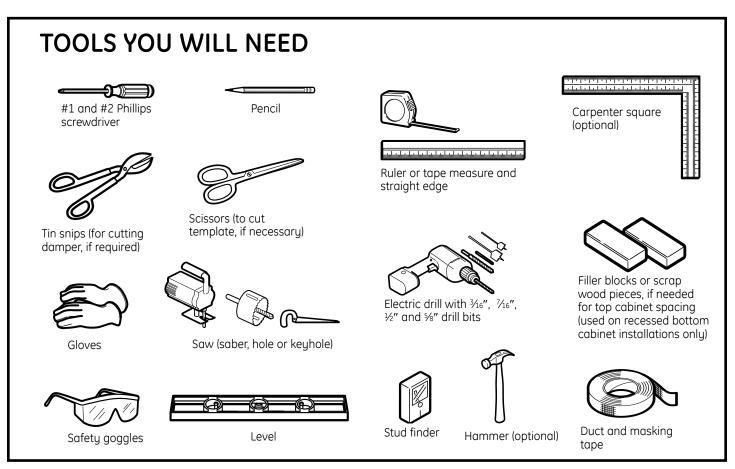
ACAUTION: For personal safety, this product cannot be installed in cabinet arrangements such as an island or a peninsula. It must be mounted to BOTH a top cabinet AND a back wall.

ACAUTION: To avoid the risk of personal injury (back injury or other injuries due to excessive weight of the microwave) or property damage, you will need two people to install this microwave.

ELECTRICAL REQUIREMENTS

120 V Models

This product requires a three-prong grounded outlet. Product rating is 120 volts AC, 60 Hertz, 15 amps, and 1.70 kilowatts. This product must be connected to a supply circuit of the proper voltage and frequency. Wire size must conform to the requirements of the National Electrical Code or the prevailing local code for this kilowatt rating. The power supply cord and plug should be brought to a separate 15 to 20 ampere branch circuit single grounded outlet. The outlet box should be located in the cabinet above the microwave oven and away from any potential microwave ducting. The outlet box and supply circuit should be installed by a qualified electrician and conform to the National Electrical Code or the prevailing local code.



1" = 2.5 cm; 1' = 0.3 m

HOOD EXHAUST

NOTE: Read these next two pages only if you plan to vent your exhaust to the outside. If you plan to recirculate the air back into the room, proceed to page 6. Below are examples of Outside Top Exhaust and Outside Back Exhaust duct system layouts. Note the position of the microwave oven relative to the duct system.

OUTSIDE TOP EXHAUST (EXAMPLE ONLY)

The following chart describes an example of one possible ductwork installation.

DUCT PIECES		EQUIVALENT LENGTH ×	NUMBEI USED	R =	EQUIVALENT LENGTH
	Roof Cap	24 Ft. x	(1)	=	24 Ft.
	12 Ft. Straight Duct (6" Round)	12 Ft. x	(1)	=	12 Ft.
	Rectangular-to-Round Transition Adaptor*	5 Ft. x	(1)	=	5 Ft.
	ths of duct pieces are bas nents for good venting pe	rformance with		hood. =	41 Ft.

***IMPORTANT:** If a rectangular-to-round transition adaptor is used, the bottom corners of the damper will have to be cut to fit, using the tin snips, in order to allow free movement of the damper.

OUTSIDE BACK EXHAUST (EXAMPLE ONLY)

The following chart describes an example of one possible ductwork installation.

DUCT PIECES		EQUIVALEN LENGTH*	NT X	NUMBE USED	R =	EQUIVALENT LENGTH
	Wall Cap	40 Ft.	×	(1)	=	40 Ft.
	3 Ft. Straight Duct (3¼" x 10" Rectangular)	3 Ft.	×	(1)	=	3 Ft.
	90° Elbow	10 Ft.	х	(2)	=	20 Ft.
Equivalent lengths of duct pieces are based on actual tests and reflect requirements for good venting performance with any vent hood. Total Length =				63 Ft.		

NOTE: For back exhaust, care should be taken to align exhaust with space between studs, or wall should be prepared at the time it is constructed by leaving enough space between the wall studs to accommodate exhaust.

NOTE: If you need to install ducts, note that the total duct length of $3\frac{1}{4}$ " x 10" rectangular or 6" diameter round duct **should not exceed 140 equivalent feet.**

Outside ventilation requires a HOOD EXHAUST DUCT. Read the following carefully:

NOTE: It is important that venting be installed using the most direct route and with as few elbows as possible. This ensures clear venting of exhaust and helps prevent blockages. **Also, make sure dampers swing freely and nothing is blocking the ducts.**

Exhaust connection:

The hood exhaust has been designed to mate with a standard $3\frac{1}{4}$ x 10" rectangular duct.

If a round duct is required, a rectangular-to-round transition adaptor must be used. **Do not use less than a 6**" **diameter duct.**

Maximum duct length:

For satisfactory air movement, the total duct length of 3¹/₄" x 10" rectangular or 6" diameter round duct **should not exceed 140 equivalent feet.**

Elbows, transitions, wall and roof caps, etc.,

present additional resistance to airflow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total duct length, add the equivalent lengths of all transitions and adaptors plus the length of all straight duct sections. The chart below shows you how to calculate total equivalent ductwork length using the approximate feet of equivalent length of some typical duct pieces.

EQUIVALENT LENGTH	×	NUMBER USED	=	EQUIVALENT LENGTH
ound 5 Ft. or*	×	()	=	Ft.
40 Ft.	х	()	=	Ft.
10 Ft.	×	()	=	Ft.
5 Ft.	х	()	=	Ft.
25 Ft.	×	()	=	Ft.
5 Ft.	х	()	=	Ft.
24 Ft.	×	()	=	Ft.
	х	()	=	Ft.
		Total Ductv	vork =	Ft.
	LENGTH iound or* 5 Ft. 40 Ft. 10 Ft. 10 Ft. 5 Ft. 25 Ft. 25 Ft. 5 Ft. 24 Ft.	Jound or*5 Ft.x40 Ft.x10 Ft.x5 Ft.x25 Ft.x5 Ft.x24 Ft.xRound or ngular1 Ft.x	LENGTH x USED ound or* 5 Ft. x () 40 Ft. x () 10 Ft. x () 5 Ft. x () 5 Ft. x () 5 Ft. x () 25 Ft. x () 5 Ft. x () 24 Ft. x () Round or ngular 1 Ft. x ()	LENGTH x USED = lound pr* 5 Ft. x () = 40 Ft. x () = 10 Ft. x () = 10 Ft. x () = 25 Ft. x () = 25 Ft. x () = 25 Ft. x () = 24 Ft. x () = Round or 1 Ft. x () =



IMPORTANT: If a rectangular-to-round transition adaptor is used, the bottom corners of the damper will have to be cut to fit, using the tin snips, in order to allow free movement of the damper.

Equivalent lengths of duct pieces are based on actual tests and reflect requirements for good venting performance with any vent hood.

DAMAGE – SHIPMENT/ INSTALLATION

- If the unit is damaged in shipment, return the unit to the store in which it was bought for repair or replacement.
- If the unit is damaged by the customer, repair or replacement is the responsibility of the customer.
- If the unit is damaged by the installer (if other than the customer), repair or replacement must be made by arrangement between customer and installer.

PARTS INCLUDED

HARDWARE PACKET

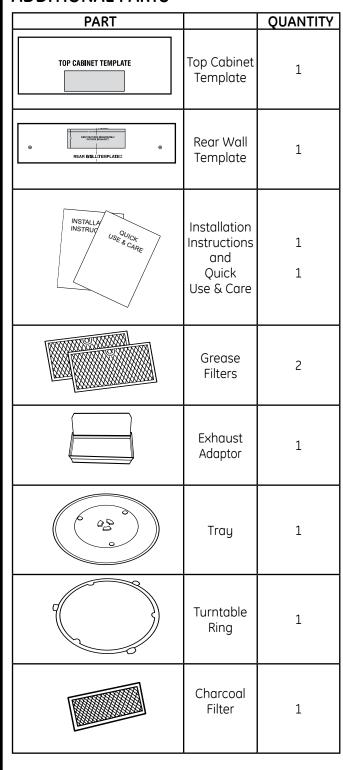
PART		QUANTITY
Companyation of the second s	Wood Screws (3/16" × 2")	2
())mmm Smmmm	Toggle Bolts (and wing nuts) (1/4" x 3")	4
P	Self-aligning Machine Screw (1/4"-28 x 3-1/4")	3
and the second se	Nylon Grommet (for metal cabinets)	2
	Power Cord Strap (plastic)	1

You will find the installation hardware contained in a packet with the unit. Check to make sure you have all these parts.

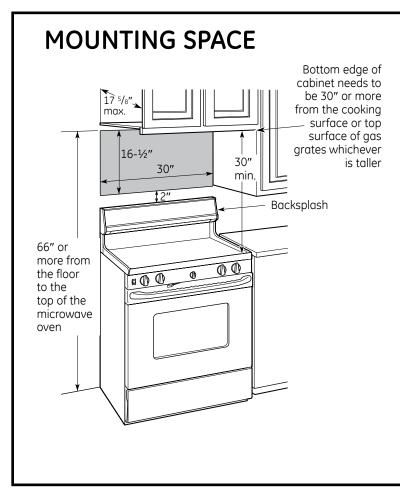
NOTE: Some extra parts are included.

PARTS INCLUDED

ADDITIONAL PARTS



1" = 2.5 cm; 1' = 0.3 m



NOTES:

- The space between the cabinets must be 30" wide and free of obstructions.
- If you are going to vent your microwave oven to the outside, see Hood Exhaust Section for exhaust duct preparation.
- When installing the microwave oven beneath smooth, flat cabinets, be careful to follow the instructions on the top cabinet template for power cord clearance.
- Maximum cabinet depth above and beside the unit is 14 ⁵/₈". When using GE approved instructions or accessory kit the maximum installation depth is 17 ⁵/₈".
- For models setup in Recirc Exhaust: Do not allow cabinetry or other objects to block the airflow of the vent.
- The product should not be installed over any cooktop or range with a combined BTU greater than 60,000 BTU.

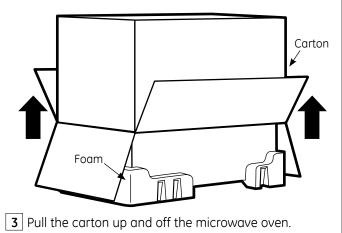
1" = 2.5 cm; 1' = 0.3 m

1 PLACEMENT OF THE MOUNTING PLATE

A REMOVING THE MICROWAVE OVEN FROM THE CARTON/REMOVING THE MOUNTING PLATE

1 Open the box and fold back all four carton flaps fully against the carton sides. Remove the following items from the protective foam: installation instructions, filters, exhaust adaptor, damper, and the small hardware bag. Do not remove the foam protecting the front of the microwave oven.

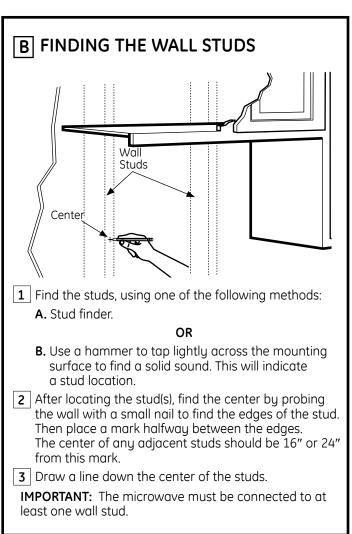
Then carefully roll the microwave oven and carton over onto the top side. The microwave oven should be resting in the foam.



4 The mounting plate is attached to the back of the microwave oven. Remove the two screws holding it to the microwave oven. The plate will be used as the rear wall template and for mounting the microwave oven to the wall.

5 Set the microwave oven upright. Remove and properly discard plastic bags and foam.

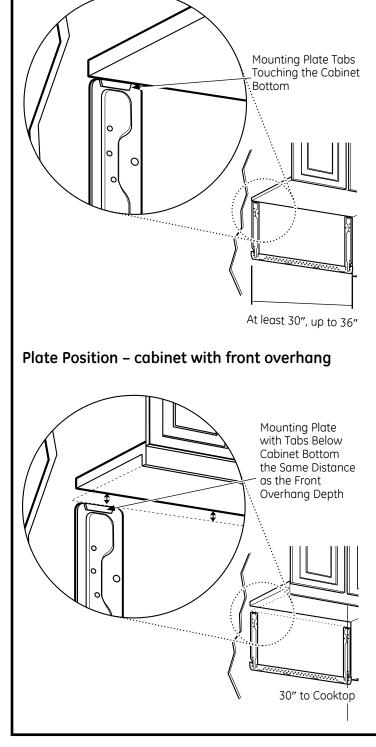
6 Open the microwave oven door and remove the plastic sheet and tape from inside the microwave oven door. Remove the tape covering the turntable hub.

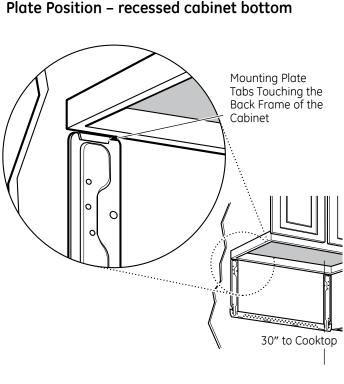


1" = 2.5 cm; 1' = 0.3 m

C DETERMINING MOUNTING PLATE LOCATION UNDER YOUR CABINET

Plate Position – flat bottom cabinet





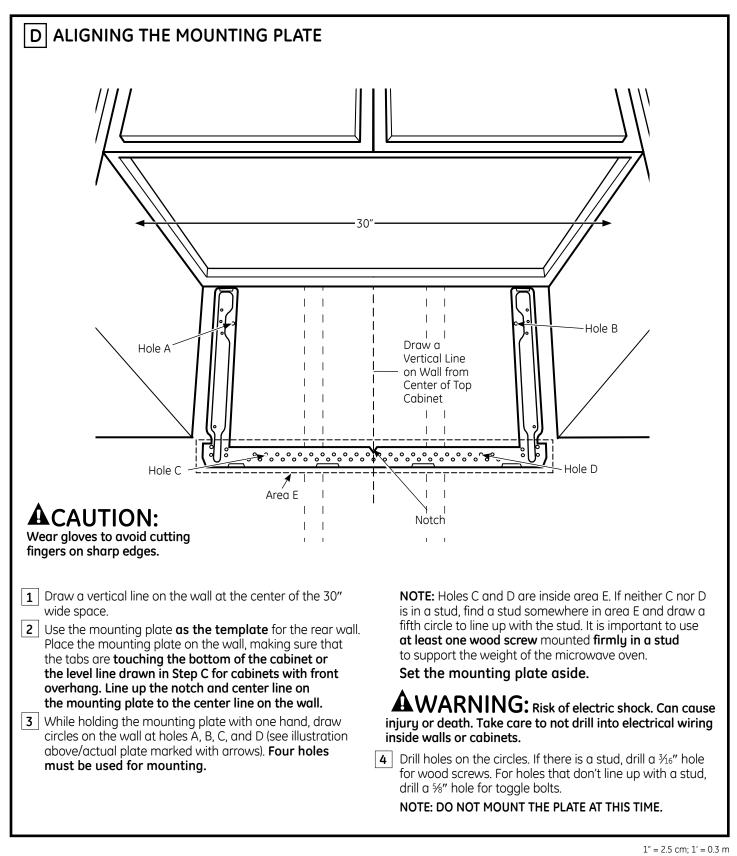
Your cabinets may have decorative trim that interferes with the microwave oven installation. You may need to remove the decorative trim to install the microwave oven properly and to make it level.

THE MICROWAVE OVEN MUST BE LEVEL.

Use a level to make sure the cabinet bottom is level.

If the cabinets have a front overhang, install the mounting plate down the same distance as the front overhang depth. This will keep the microwave oven level.

- 1 Measure the inside depth of the front overhang.
- 2 Draw a horizontal line on the back wall an equal distance below the cabinet bottom as the inside depth of the front overhang.
- **3** For this type of installation with front overhang, align the mounting tabs with this horizontal line, not touching the cabinet bottom as described in Step D.



2 **INSTALLATION TYPES** (Choose A, B or C)

This microwave oven is designed for adaptation to the following 3 types of ventilation:

NOTE: Select the type of ventilation required for your installation and proceed to that section.

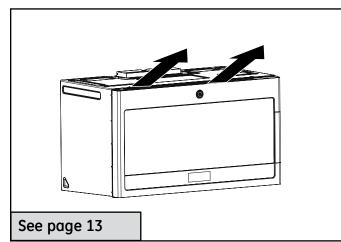
- A. Recirculating (Non-Vented Ductless) B. Outside Top Exhaust (Vertical Duct)
- B. Outside Top Exhaust (Ventical Dact)

RECIRCULATING

Α

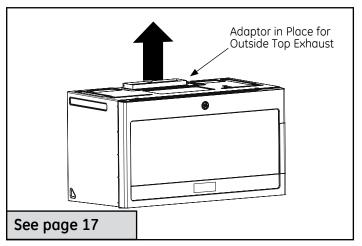
C. Outside Back Exhaust (Horizontal Duct)

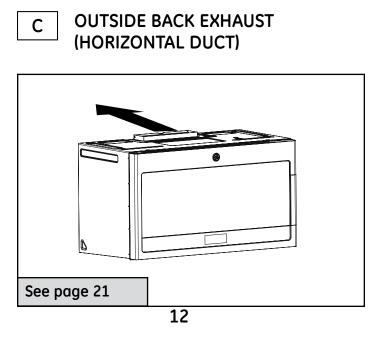




(NON-VENTED DUCTLESS)

A Charcoal Filter Accessory Kit is required for the non-vented exhaust. (See your Owner's Manual for the kit number.)

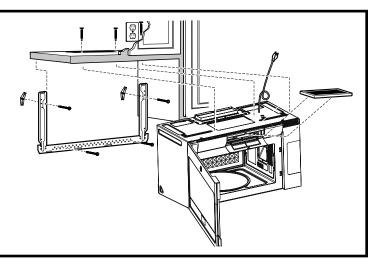




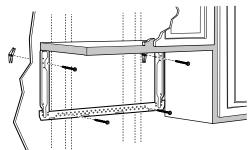
A RECIRCULATING (Non-Vented Ductless)

INSTALLATION OVERVIEW

- A1. Attach Mounting Plate to Wall
- A2. Prepare Top Cabinet
- A3. Adjust Blower Motor
- A4. Install Charcoal Filter
- A5. Mount the microwave oven
- **A6.** Installing/Replacing the Charcoal Filter Without Access to Top Screws and the Unit Has Already Been Mounted.



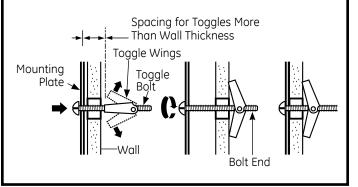
A1 ATTACH THE MOUNTING PLATE TO THE WALL



Attach the plate to the wall using toggle bolts. At least one wood screw must be used to attach the plate to a wall stud.

- **1** Remove the toggle wings from the bolts.
- 2 Insert the bolts into the mounting plate through the holes designated to go into drywall and reattach the toggle wings to 3/4" onto each bolt.

To use toggle bolts:



3 Place the mounting plate against the wall and insert the toggle wings into the holes in the wall to mount the plate.

NOTE: Before tightening toggle bolts and wood screw, make sure the tabs on the mounting plate touch the bottom of the cabinet or the horizontal level line when pushed flush against the wall and that the plate is properly centered under the cabinet.

ACAUTION: Be careful to avoid pinching fingers between the back of the mounting plate and the wall.

4 Tighten all bolts. Pull the plate away from the wall to help tighten the bolts.

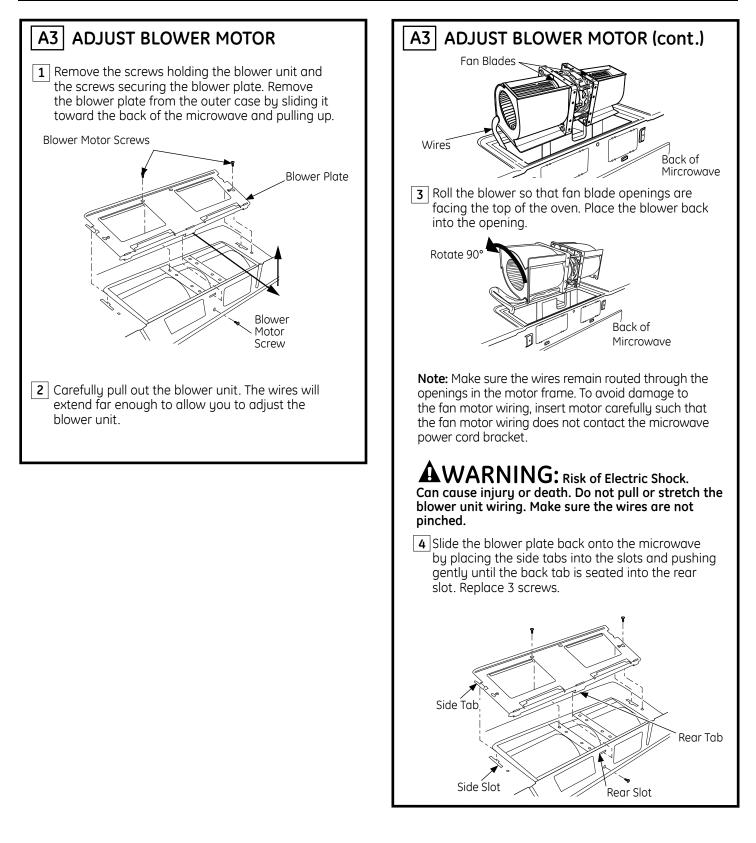
A2 USE TOP CABINET TEMPLATE FOR PREPARATION OF TOP CABINET

You need to drill holes for the top support screws and a hole large enough for the power cord to fit through.



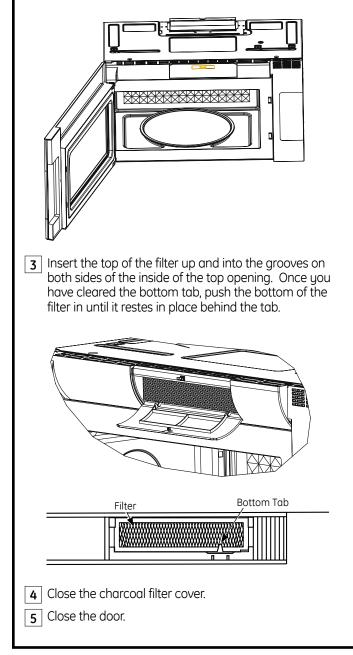
- Read the instructions on the TOP CABINET TEMPLATE.
- Tape it underneath the top cabinet.
- Drill the holes, following the instructions on the TOP CABINET TEMPLATE.

ACAUTION: Wear safety goggles when drilling holes in the cabinet bottom.



A4 INSTALLING THE CHARCOAL FILTER

- **1** Open the door.
- 2 Push the "Push" area on charcoal filter cover at center of the grille.



A5 MOUNT THE MICROWAVE OVEN



ACAUTION: To avoid the risk of personal injury (back injury or other injuries due to excessive weight of the microwave) or property damage, you will need two people to install this microwave.

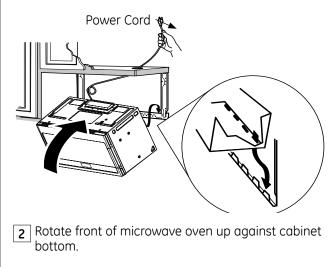
IMPORTANT: Do not grip or use handle during installation.

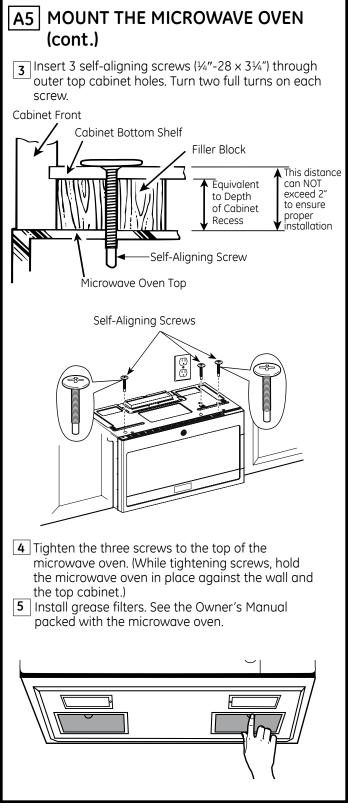
AWARNING: Risk of Electric Shock. Can cause injury or death: If installing unit with metal countertops, cover the edge of the power supply cord hole with the power supply cord bushing.

IMPORTANT: If filler blocks are not used, case damage may occur from overtightening screws.

NOTE: When mounting the microwave, thread power cord through hole in bottom of top cabinet. Keep it tight throughout Steps 1–3. Do not pinch cord or lift microwave oven by pulling cord.

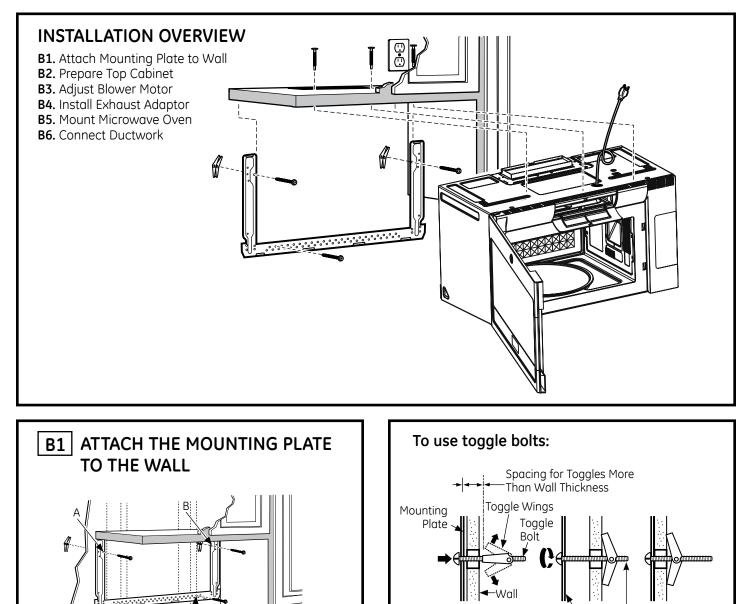
1 Lift microwave, tilt it forward, and hook slots at back bottom edge onto four lower tabs of mounting plate.





1" = 2.5 cm; 1' = 0.3 m

B OUTSIDE TOP EXHAUST (Vertical Duct)



Attach the plate to the wall using toggle bolts. At least one wood screw must be used to attach the plate to a wall stud. Recommended locations on the mounting plate are indicated by A, B, C and D. 1 Remove the toggle wings from the bolts.

2 Insert the bolts into the mounting plate through the holes designated to go into drywall and reattach the toggle wings to 3/4" onto each bolt.

1" = 2.5 cm; 1' = 0.3 m

3 Insert the toggle wings into the holes in the wall and place the mounting plate against the wall.

Mounting Plate

Bolt End

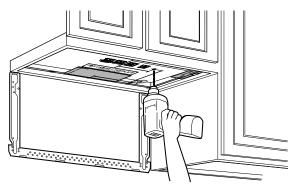
NOTE: Before tightening toggle bolts and wood screw, make sure the tabs on the mounting plate touch the bottom of the cabinet when pushed flush against the wall and that the plate is properly centered under the cabinet.

ACAUTION: Be careful to avoid pinching fingers between the back of the mounting plate and the wall.

4 Tighten all bolts. Pull the plate away from the wall to help tighten the bolts.

B2 USE TOP CABINET TEMPLATE FOR PREPARATION OF TOP CABINET

You need to drill holes for the top support screws, a hole large enough for the power cord to fit through, and a cutout large enough for the exhaust adaptor.



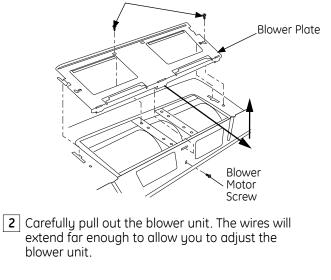
- Read the instructions on the TOP CABINET TEMPLATE.
- Tape it underneath the top cabinet.
- Drill the holes, following the instructions on the TOP CABINET TEMPLATE.

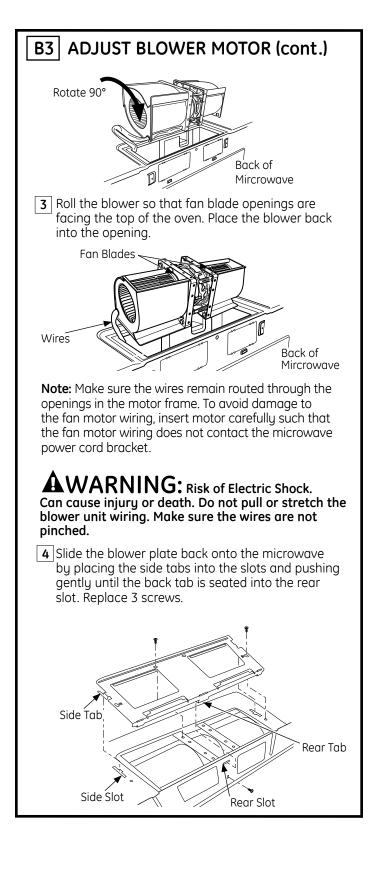
ACAUTION: Wear safety goggles when drilling holes in the cabinet bottom.

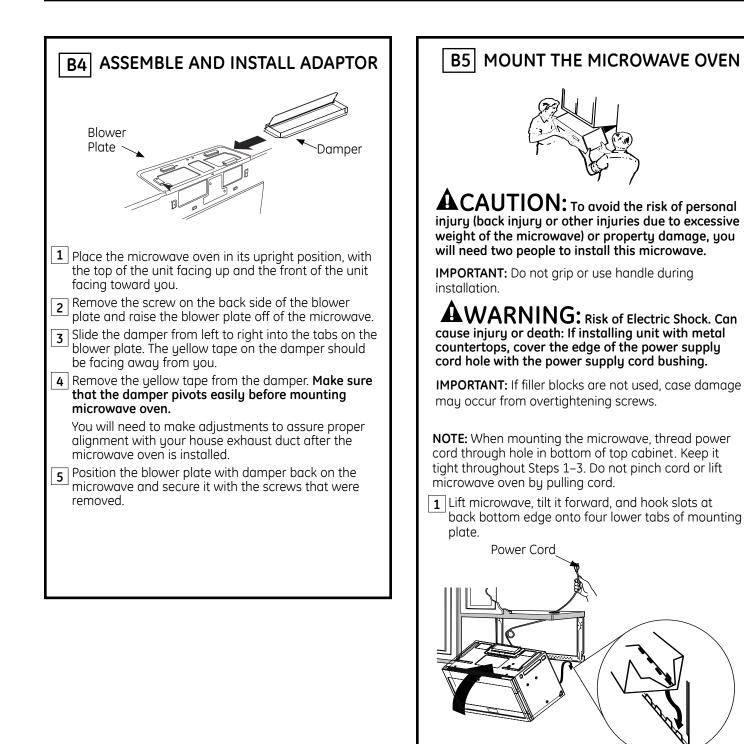
B3 ADJUST BLOWER MOTOR

1 Remove the screws holding the blower unit and the screws securing the blower plate. Remove the blower plate from the outer case by sliding it toward the back of the microwave and pulling up.

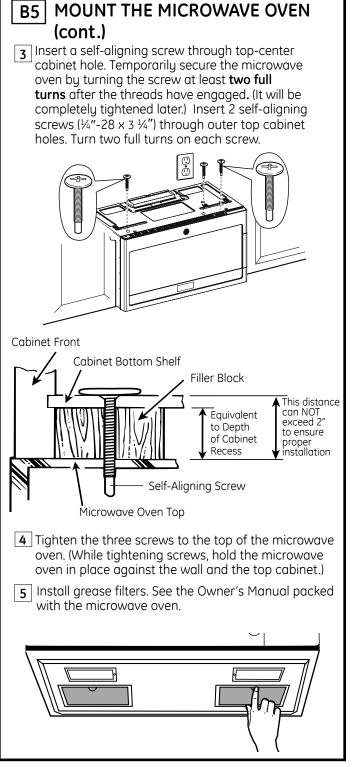
Blower Motor Screws



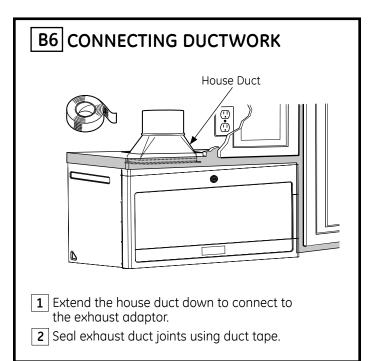




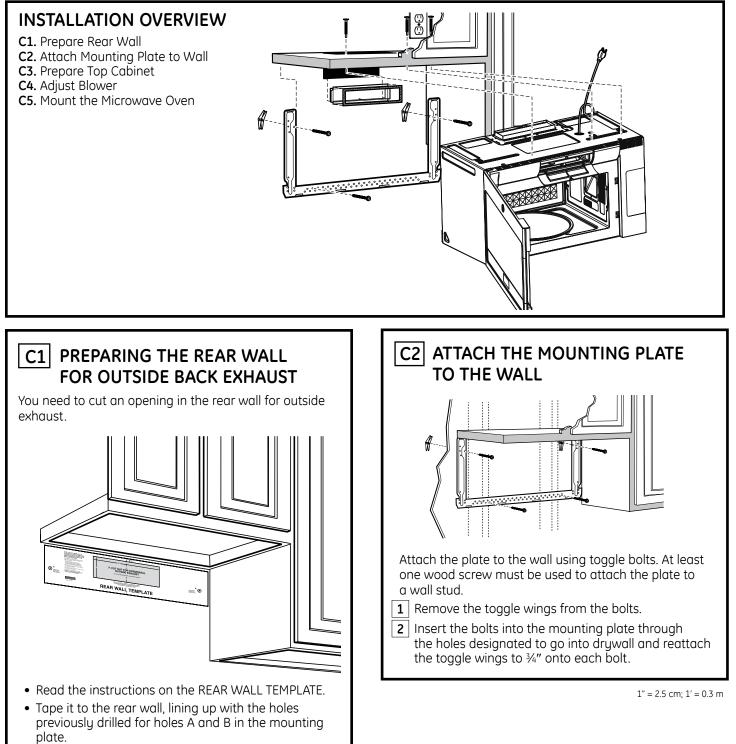
2 Rotate front of microwave oven up against cabinet bottom.



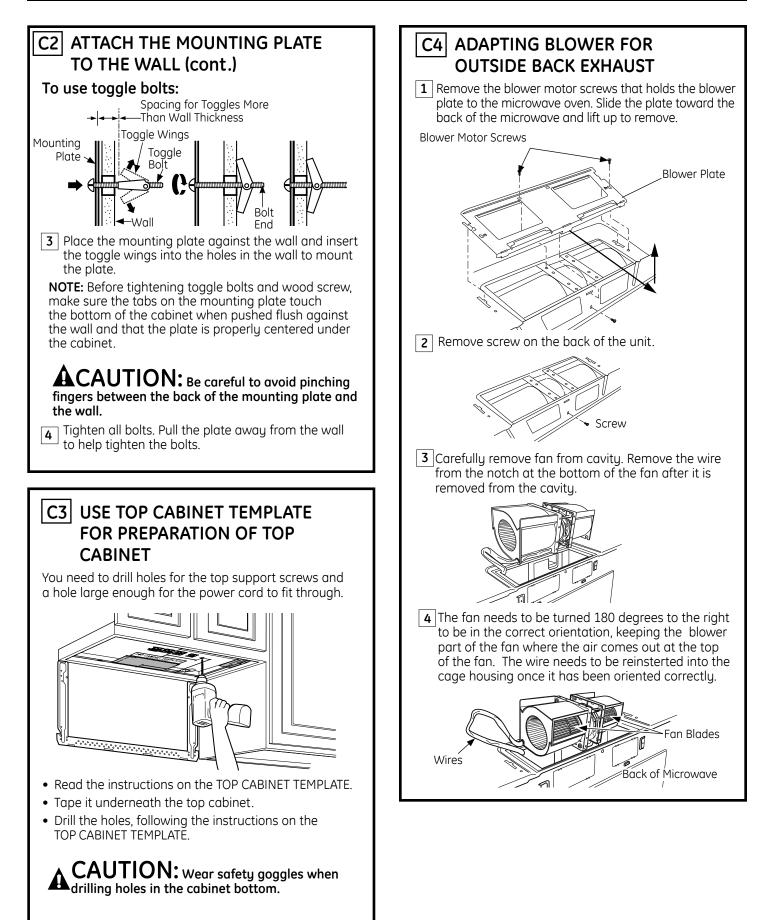
^{1&}quot; = 2.5 cm; 1' = 0.3 m

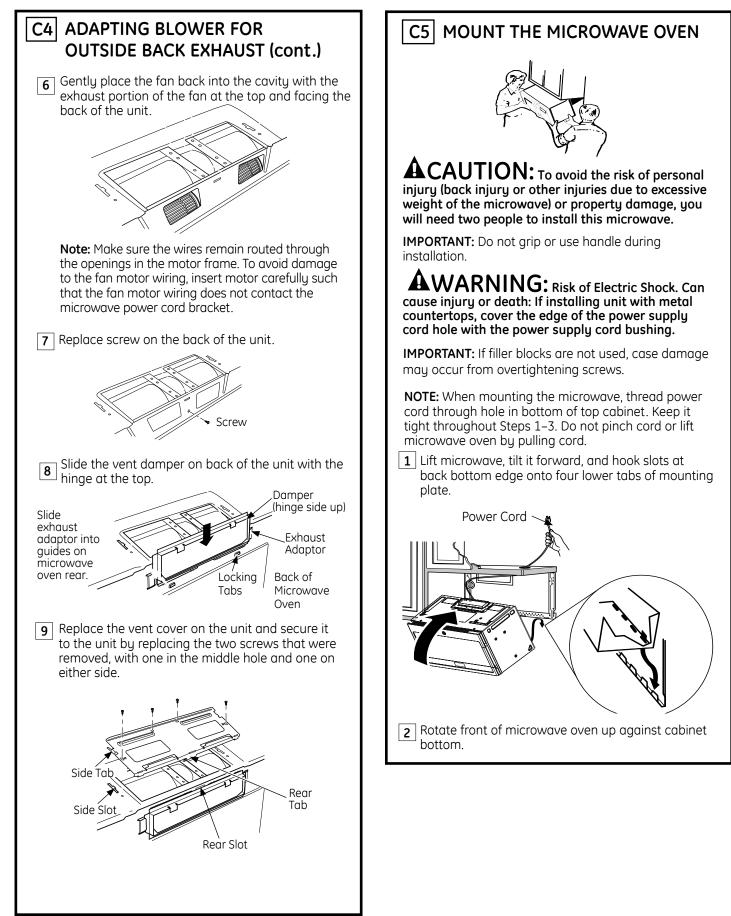


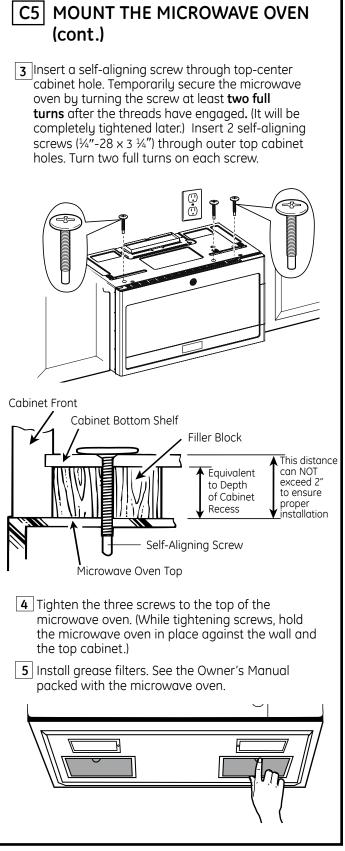
C OUTSIDE BACK EXHAUST (Horizontal Duct)



• Cut the opening, following the instructions of the REAR WALL TEMPLATE.







^{1&}quot; = 2.5 cm; 1' = 0.3 m

BEFORE YOU USE YOUR MICROWAVE OVEN

