

FRIGIDAIRE

All about the

Installation, Use & Care

of your Range Hood



PRODUCT RECORD AND REGISTRATION

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Be sure to visit us online at
www.frigidaire.com
for a complete line of accessories.

Thank you for choosing **Frigidaire**.

This Use & Care Guide is part of our commitment to customer satisfaction and product quality throughout the service life of your new appliance. We view your purchase as the beginning of a relationship. To ensure our ability to continue serving you, please use this page to record important product information.

Need help??

Visit the Frigidaire web site at www.frigidaire.com

Before you call for service, there are a few things you can do to help us serve you better.

Read this Use & Care manual.

It contains instructions to help you use and maintain your range properly.

If you received a damaged range Hood...

immediately contact the dealer (or builder) that sold you the range hood.

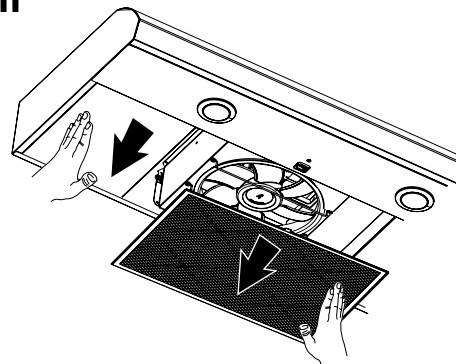
Save time and money.

Check the "Troubleshooting" list. This section helps step you through some common problems that might occur. If you do need service, help is only a phone call away. Call Frigidaire Customer Services at **1-800-944-9044**.

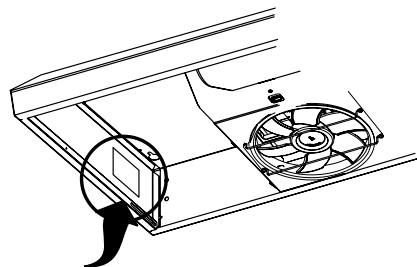
Product Registration

Registering your product with Frigidaire enhances our ability to serve you. You can register online at **www.frigidaire.com** or by dropping your Product Registration Card in the mail.

Serial Plate Location



Remove the grease filter and the left side panel



The serial plate is on the left side of the range hood

Record model & serial numbers here

Purchase date

Model number

Serial number

IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this appliance.

Save these instructions for future references

Approved for residential appliances

For residential use only

Do not attempt to install or operate your appliance until you have read the safety precautions in this manual. Safety items throughout this manual are labeled with a WARNING or CAUTION based on the risk type.

⚠This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ WARNING

This symbol alerts you to situations that may cause serious body harm, death or property damage.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

➡ IMPORTANT

IMPORTANT indicates installation, operation, maintenance or valuable information that is not hazard related.

IMPORTANT SAFETY INSTRUCTIONS

⚠ CAUTION

FOR GENERAL VENTILATING USE ONLY. DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE MATERIALS OR VAPORS.

⚠ WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- A. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer
- B. Before servicing or cleaning the unit, switch power off at service panel and lock service panel disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- C. Installation Work and Electrical Wiring Must Be Done By Qualified Person(s) In Accordance With all Applicable Codes & Standards, Including Fire-rated Construction.
- D. Sufficient air is needed for proper combustion and exhausting of gases through the flue (Chimney) of fuel burning equipment to prevent back-drafting. Follow the heating equipment manufacturers guideline and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- E. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- F. Ducted systems must always be vented to the outdoors.

⚠ CAUTION

To reduce risk of fire and to properly exhaust air, be sure to duct air outside - do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces, or garages.

⚠ WARNING

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCT WORK.

Install this hood in accordance with all requirements specified.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

To Reduce The Risk Of Fire Or Electric Shock, Do Not Use This Hood With Any External Solid State Speed Control Device.

WARNING

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE.

- a) Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- b) Always turn hood ON when cooking at high heat or when flambeing food (I.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambe').
- c) Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- d) Use proper pan size. Always use cookware appropriate for the size of the surface element.

WARNING

TO REDUCE THE RISK OF INJURY TO PERSONS, IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:

a) SMOTHER FLAMES with a close - fitting lid, cookie sheet, or other metal tray, then turn off the gas burner or the electric element.

BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, **EVACUATE AND CALL THE FIRE DEPARTMENT.**

b) NEVER PICK UP A FLAMING PAN - you may be burned.

c) DO NOT USE WATER, including wet dishcloths or towels - a violent steam explosion will result.

d) Use an extinguisher ONLY if:

- 1) You know you have a class ABC extinguisher, and you already know how to operate it.
- 2) The fire is small and contained in the area where it started.
- 3) The fire department is being called.
- 4) You can fight the fire with your back to an exit.

OPERATION

Always leave safety grills and filters in place. Without these components, operating blowers could catch onto hair, fingers and loose clothing.

The manufacturer declines all responsibility in the event of failure to observe the instructions given here for installation, maintenance and suitable use of the product. The manufacturer further declines all responsibility for injury due to negligence and the warranty of the unit automatically expires due to improper maintenance.

LIST OF MATERIALS

Parts included in your hood

- 4 - 0.45 x 1.3 cm mounting screws
- 2 - .35 x .65 cm rectangular vent transition mounting screws
- 2 - .29 x .65 cm round metal mounting plate mounting screws
- 3¼" x 10" (8.3 x 25.4 cm) rectangular metal vent system.
- 7" (17.8 cm) round metal mounting plate.

Parts Needed

- 2 - UL listed wire connectors
- Wall or roof cap with damper to match vent system
- Vent clamps/duct tape as required
- UL listed or CSA approved ½" strain relief

Tools/Materials required

- Drill
- 1¼" (3.0 cm) drill bit
- ⅛" (0.3 cm) drill bit for pilot holes
- Pencil
- Wire stripper or utility knife
- Tape measure or ruler
- Caulking gun and weatherproof caulking compound
- Flat-blade screwdriver
- Phillips screwdriver
- Saber or keyhole saw

For cabinets with recessed bottoms:

- Two - 2" (5.1 cm) wide filler strips. Length and thickness determined by recess dimensions.
- Four flat head wood screws or machine screws with washers and nuts (to attach filler strips).

ELECTRICAL REQUIREMENTS

Observe all governing codes and ordinances.

Ensure that the electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70 (latest edition), or CSA Standards C22.1-94, Canadian Electrical Code, Part 1 and C22.2 No. 0-M91 (latest edition) and all local codes and ordinances.

If codes permit and a separate ground wire is used, it is recommended that a qualified electrician determine that the ground path is adequate.

A copy of the above code standards can be obtained from:

National Fire Protection Association

One Batterymarch Park
Quincy, MA 02269

CSA International

8501 East Pleasant Valley Road
Cleveland, OH 44131-5575

- A 120 volt, 60 Hz., AC only, 15-amp, fused electrical circuit is required.
- If the house has aluminum wiring, follow the procedure below:
 1. Connect a section of solid copper wire to the pigtail leads.
 2. Connect the aluminum wiring to the added section of copper wire using special connectors and/or tools designed and UL listed for joining copper to aluminum.

Follow the electrical connector manufacturer's recommended procedure. Aluminum/copper connection must conform with local codes and industry accepted wiring practices.

- Wire sizes and connections must conform with the rating of the appliance as specified on the model/serial rating plate.

The model/serial plate is located on the left side of the range hood.
- Wire sizes must conform to the requirements of the National Electrical Code, ANSI/NFPA 70 (latest edition), or CSA Standards C22.1-94, Canadian Electrical Code, Part 1 and C22.2 No. 0-M91 (latest edition) and all local codes and ordinances.

LOCATION REQUIREMENTS

IMPORTANT

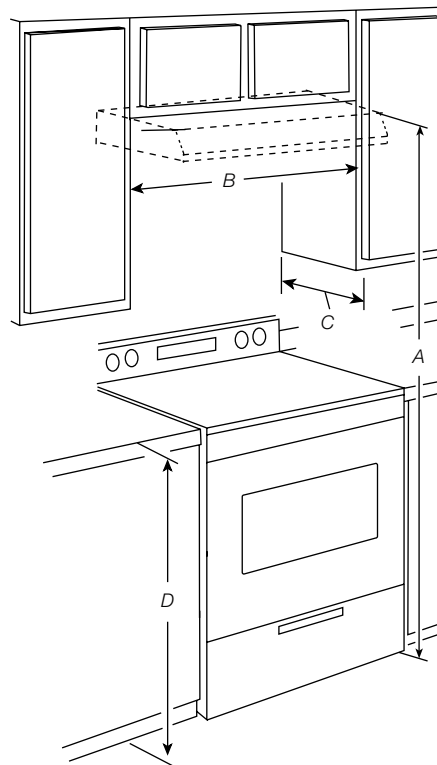
Observe all governing codes and ordinances.

- It is the installer's responsibility to comply with installation clearances specified on the model/serial rating plate. The model/serial rating plate is located inside the range hood on the left side (See page 2 for location). Range hood location should be away from strong draft areas, such as windows, doors and strong heating vents.
- Cabinet opening dimensions that are shown must be used. Given dimensions provide minimum clearance. Consult the cooktop/range manufacturer installation instructions before making any cutouts.
- Grounded electrical outlet is required. See "Electrical Requirements" section.
- All openings in ceiling and wall where canopy hood will be installed must be sealed.

For Mobile Home Installations

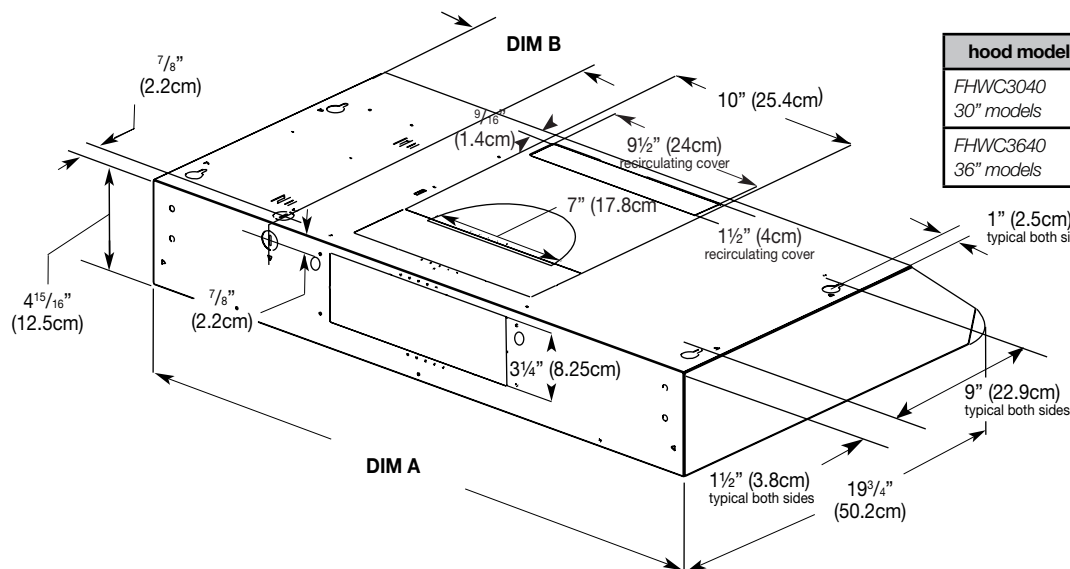
The installation of this range hood must conform to the Manufactured Home Construction Safety Standards, Title 24 CFR, Part 328 (formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, HUD, Part 280) or when such standard is not applicable, the standard for Manufactured Home Installation 1982 (Manufactured Home Sites, Communities and Setups) ANSI A225.1/NFPA 501A, or latest edition, or with local codes.

Cabinet Dimensions



- A. 66" (167 cm) suggested min. - top of range hood to floor.
 B. 30" (76.2 cm) min. cabinet opening width for 30" (76.2 cm) models and 36" (91.4 cm) min. cabinet width for 36" (91.4 cm) models.
 C. 13" (33.0 cm) cabinet depth
 D. 36" (91.4 cm) base cabinet height

PRODUCT DIMENSIONS



hood model	Dim A	Dim B
FHWC3040 30" models	30" (76.2 cm)	6 ⁹ / ₁₆ " (16.7 cm)
FHWC3640 36" models	36" (91.44 cm)	9 ¹ / ₂ " (24.3 cm)

VENTING REQUIREMENTS

- Vent system must terminate to the outdoors.
- Do not terminate the vent system into an attic or other enclosed area.
- Do not use a 4" (10.2 cm) laundry-type wall cap.
- Use a 3¼" x 10" (8.3 x 25.4 cm) rectangular or 7" (17.8 cm) round metal vent. Rigid metal vent is recommended. Plastic or metal foil vent is not recommended.
- The length of vent system and number of elbows should be kept to a minimum to provide efficient performance.

For the most efficient and quiet operation:

- Use no more than three 90° elbows.
- Make sure there is a minimum of 24" (61 cm) of straight vent between the elbows if more than 1 elbow is used.
- Do not install 2 elbows together.
- Use clamps or duct tape to seal all joints in the vent system.
- The vent system at exit must have a cold air damper.
- Use caulking to seal exterior wall or roof opening around the cap.
- Best performances are reached with straight piping, without elbows and using smooth pipe.
- Maximum recommended vent system length: 35 ft (10.7m).

Cold Weather Installations

An additional back draft damper should be installed to minimize backward cold air flow and a thermal break should be installed to minimize conduction of outside temperatures as part of the vent system. The damper should be on the cold air side of the thermal break. The break should be as close as possible to where the vent system enters the heated portion of the house.

Makeup Air

Local building codes may require the use of makeup air systems when using ventilation systems greater than specified CFM of air movement. The specified CFM varies from locale to locale. Consult your HVAC professional for specific requirements in your area.

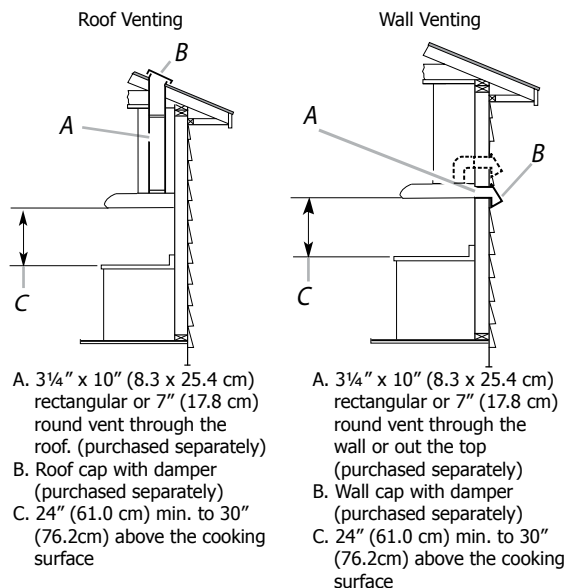
Venting Methods

Vent system can terminate either through the roof or wall. Use 3¼" x 10" (8.3 x 25.4 cm) rectangular with a maximum vent length of 35 ft (10.7 m) or 7" (17.8 cm) round vent with a maximum length of 50 ft (15.2 m) for vent system.



NOTE

Flexible vent is not recommended. Flexible vent creates both back pressure and air turbulence that greatly reduce performance.



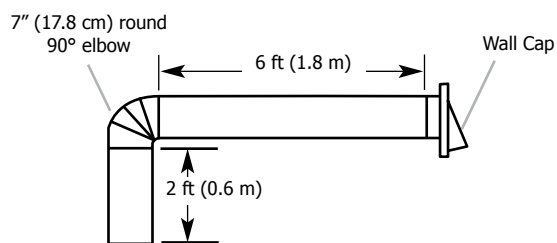
Calculating Vent System Length

To calculate the length of the system you need, add the equivalent feet (meters) for each vent piece used in the system.

7" (17.8 cm) Round Vent System

Vent Piece	
90° elbow	5.0 ft (1.5 m)
7" (17.8 cm) wall cap	0.0 ft (0.0 m)

Example Vent System



Maximum Recommended Length	= 50 ft (15.2 m)
1 - 90° elbow	= 5.0 ft (1.5 m)
8 ft (2.4 m) straight	= 8.0 ft (2.4 m)
1 - wall cap	= 0.0 ft (0.0 m)
Length of 7" (17.8 cm) system	= 13.0 ft (3.9 m)

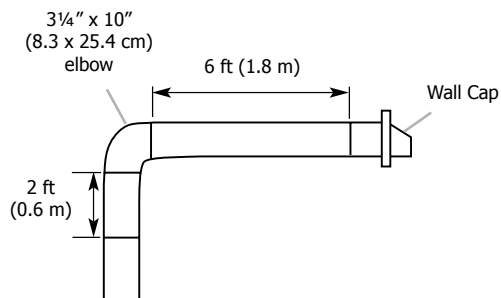
VENTING REQUIREMENTS

3¼" x 10" (8.3 cm x 25.4 cm) Vent System

Vent Piece

3¼" x 10" (8.3 cm x 25.4 cm) 90° elbow	5.0 ft (1.5 m)	
3¼" x 10" (8.3 cm x 25.4 cm) flat elbow	12.0 ft (3.7 m)	
3¼" x 10" (8.3 cm x 25.4 cm) wall cap	0.0 ft (0.0 m)	

Example Vent System



Maximum Recommended Length = 35 ft (10.7 m)

1 - 90° elbow = 5.0 ft (1.5 m)

8 ft (2.4 m) straight = 8.0 ft (2.4 m)

1 - wall cap = 0.0 ft (0.0 m)

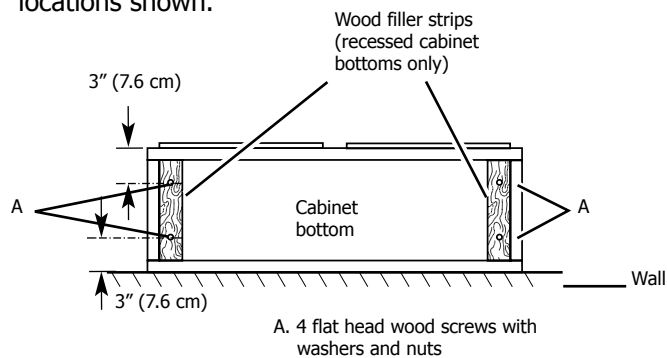
Length of 3¼" x 10"
(8.3 cm x 25.4 cm) system = 13.0 ft (3.9 m)

PREPARE THE LOCATION

NOTE

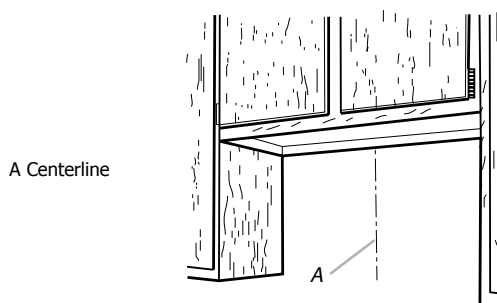
Before making cutouts, make sure there is proper clearance within the ceiling or wall.

1. Disconnect power.
2. Select a flat surface for assembling the range hood. Place covering over that surface.
3. Lift the range hood and set it upside down onto covered surface.
4. If cabinet has recessed bottom, add wood filler strips on each side. Install screws to attach filler strips in locations shown.



Determine Wiring Hole Location

1. Determine and clearly mark a vertical centerline on the wall and cabinet bottom.



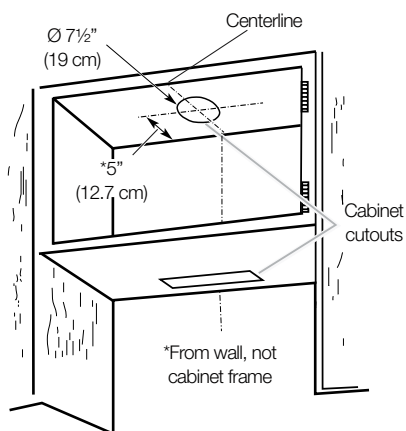
PREPARE THE LOCATION

Style 3 - Cut Openings for 3¼" x 10" (8.3 x 25.4 cm) Rectangular Vent Transition to Round Vent

Roof Venting

To make a circular vent opening on the underside of the cabinet top:

1. Mark a centerline on the underside of the top of cabinet.
2. Mark a line 5" (12.7 cm) from the back wall on the underside of the top of cabinet.
3. Use a compass or a circle template to draw a circle with a diameter of 7½" (19 cm).
Use saber or keyhole saw to cut the circular vent opening.

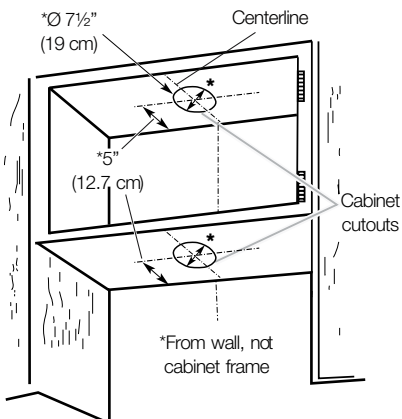


Style 4 - Cut Openings for 7" (17.8 cm) Round Vent to Round Vent Transition

Roof Venting

To make a circular vent opening on the underside of the cabinet top:

1. Mark a centerline on the underside of the top of cabinet.
2. Mark a line 5" (12.7 cm) from the back wall on the underside of the top of cabinet.
3. Use a compass or a circle template to draw a circle with a diameter of 7½" (19 cm).
Use saber or keyhole saw to cut the circular vent opening.
4. Repeat steps 1-3 for the underside of the top of the cabinet.



Install Vent System

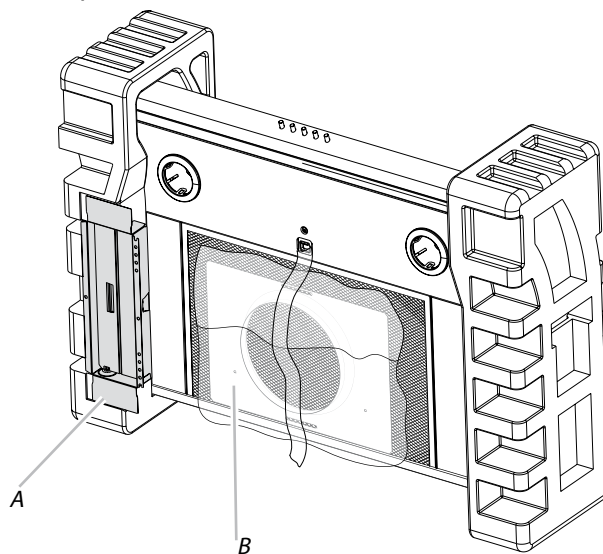
1. Install vent through the vent opening in upper cabinet or wall. Complete venting system according to the selected venting method. See "Venting Requirements" section.
2. Use caulking to seal exterior wall or roof opening around the cap.

INSTALL RANGE HOOD (Ducted version)

NOTE

Your model includes a 3¼" x 10" (8.3 x 25.4 cm) rectangular transition and a 7" (17.8 cm) round vent mounting plate inside the package.

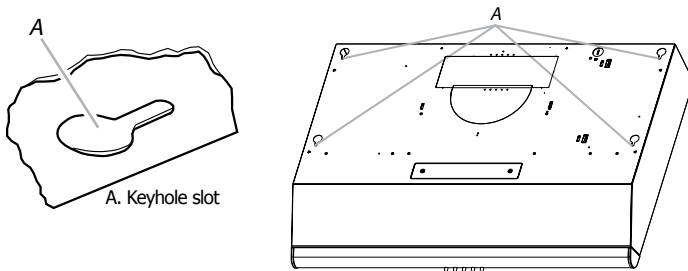
1. Detach the 3¼" x 10" (8.3 x 25.4 cm) rectangular and 7" (17.8 cm) round vent from the package. Unpack the one you have chosen and set the other in a safe place.



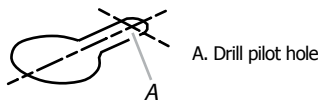
A. 3¼" x 10" (8.3 x 25.4 cm) rectangular vent damper
B. 7" (17.8 cm) round vent mounting plate

INSTALLING THE HOOD

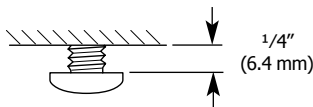
- Lift the range hood up under cabinet and determine final location by centering beneath cabinet. Mark on the underside of cabinet the location of the 4 keyhole mounting slots on the range hood (See slot dimensions on page 6). Set range hood aside on a covered surface.



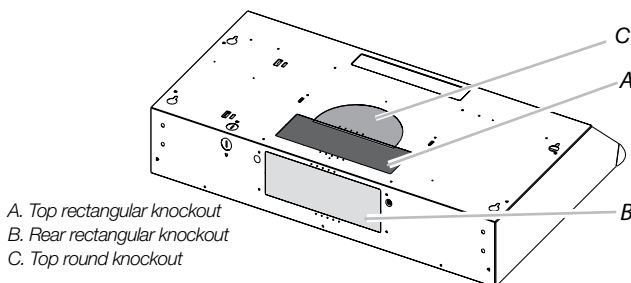
- Use $\frac{1}{8}$ " (3 mm) drill bit and drill 4 pilot holes as shown. NOTE: Make the drill holes on the thin area of the slot.



- Install the 4 - .45 cm x 1.3 cm mounting screws in pilot holes. Leave about $\frac{1}{4}$ " (6.4 mm) space between screw heads and cabinet to slide range hood into place.

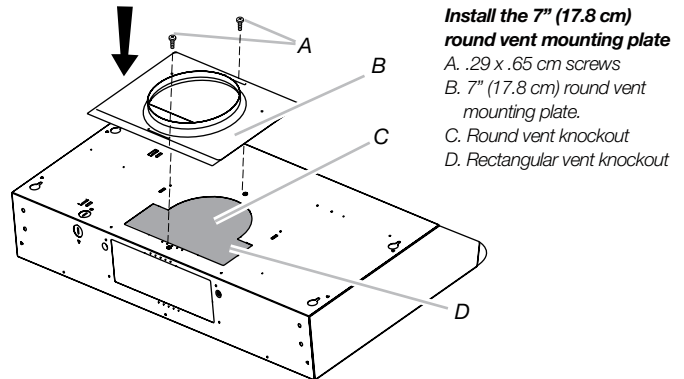


- For roof installations, remove the top rectangular or round vent knockout depending on which vent system you desire to install. For wall installations, remove the rear rectangular vent knockout.

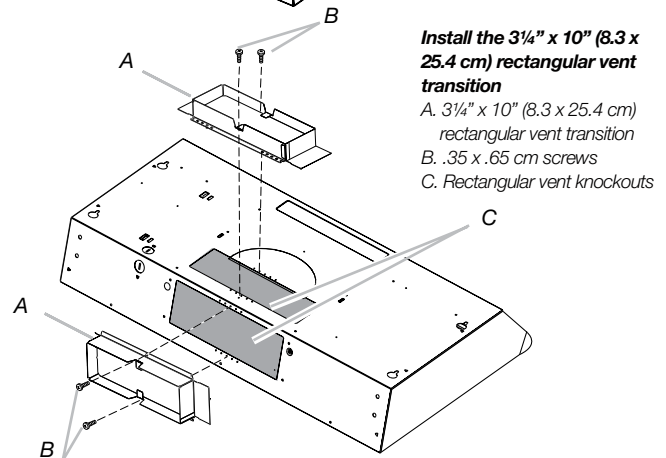


Vent Connector Installation

Install 7" (17.8 cm) round vent mounting plate or $3\frac{1}{4}$ " x 10" (8.3 x 25.4 cm) vent connector, depending on your vent system installation. Attach to range hood using the indicated screws provided in hardware kit.



Install the 7" (17.8 cm) round vent mounting plate
 A. .29 x .65 cm screws
 B. 7" (17.8 cm) round vent mounting plate.
 C. Round vent knockout
 D. Rectangular vent knockout



Install the $3\frac{1}{4}$ " x 10" (8.3 x 25.4 cm) rectangular vent transition
 A. $3\frac{1}{4}$ " x 10" (8.3 x 25.4 cm) rectangular vent transition
 B. .35 x .65 cm screws
 C. Rectangular vent knockouts

NOTE

The 7" (17.8 cm) round vent mounting plate or the $3\frac{1}{4}$ " x 10" (8.3 x 25.4 cm) rectangular vent connector can be installed up to 1" (2.5 cm) on either side of the hood center to accommodate off center ductwork.

- If a vent damper is installed with a wall cap with damper, check that they do not interfere with each other. Remove the vent connector damper flap if they interfere.

Power Supply Cable Installation

- For direct wire installations, run the home power supply cable according to the National Electric Code or CSA standards and local codes and ordinances. There must be enough wiring from the fused disconnect (or circuit breaker) box to make the connection in the hood electrical terminal box.

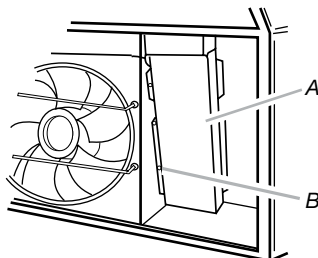
INSTALLING THE HOOD

NOTE

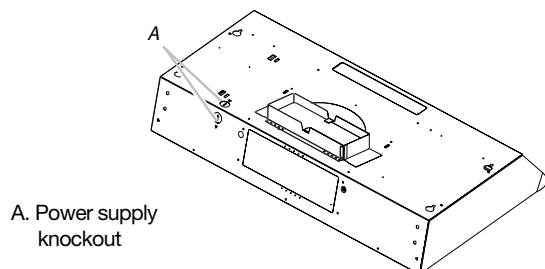
Do not reconnect power until the installation is complete.
Before starting the installation, remove the grease filter, left and right side panels
Complete installation to reinstall the side panels.

2. Remove the screw from the terminal box cover.
Remove terminal box cover and set aside.

A. Terminal box cover
B. Screw



3. Remove the power supply knockout from the top or rear of the vent hood (depending on the incoming location of your home power supply cable) and install a UL listed or CSA approved 1/2" strain relief.



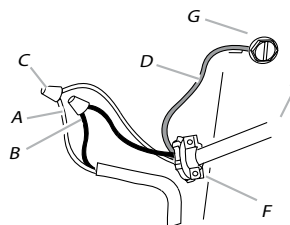
4. Using 2 or more people, lift the hood into final position. Feed enough electrical wire through the 1/2" UL listed or CSA approved strain relief to make connections in the terminal box. Tighten the strain relief screws.
5. Position the range hood so that the large end of the keyhole slots are over the mounting screws. Then push the hood toward the wall so that the screws are in the neck of the slots. Tighten the mounting screws, making sure the screws are in the narrow neck of slots.
6. Connect ventwork to hood. Seal joints with vent clamps or duct tape to make secure and airtight.
7. Check that back draft dampers work properly.

MAKE ELECTRICAL CONNECTION

WARNING

Electrical Shock Hazard
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

1. Disconnect power.



A. White wires
B. Black wires
C. UL listed wire connector
D. Green (or bare) ground wire
E. Home power supply cable
F. UL listed or CSA approved 1/2" strain relief
G. Green ground screw

2. Use UL listed wire connectors and connect white wires (A) together.
3. Use UL listed wire connectors and connect black wires (B) together.

WARNING

Fire Hazard
Electrically ground the blower. Use copper wire.
Connect ground wire to green ground screw in terminal box. Failure to do so can result in death, fire, or electrical shock.

4. Connect green (or bare) ground wire from power supply to green ground screw in terminal box and securely tighten.
5. Install terminal box cover.
6. Install the 50W maximum halogen light bulb. See "Replacing the halogen lamp" in the "Range Hood Care" section.
7. Reconnect power.

Complete Installation

1. Replace the two bottom panels.
2. Replace grease filter if removed. See the "Range Hood Care" section.
3. Check the operation of the range hood fan and light. See "Range Hood Use" section.

If range hood does not operate, check to see whether a circuit breaker has tripped or a household fuse has blown. Disconnect power and check wiring connections.

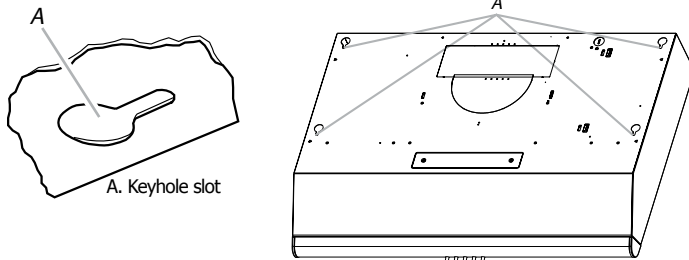
NOTE

To get the most efficient use from your new range hood, read the "Range Hood Use" section.

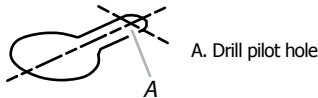
INSTALLING THE HOOD

INSTALL RANGE HOOD (Recirculating version)

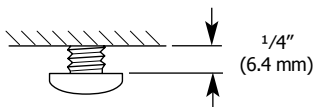
1. Lift the range hood up under cabinet and determine final location by centering beneath cabinet. Mark on the underside of cabinet the location of the 4 keyhole mounting slots on the range hood (See slots dimensions on page 6). Set range hood aside on a covered surface.



2. Use $\frac{1}{8}$ " (3 mm) drill bit and drill 4 pilot holes as shown.
NOTE: Make the drill holes on the thin area of the slot.



3. Install the 4 - .45 cm x 1.3 cm mounting screws in pilot holes. Leave about $\frac{1}{4}$ " (6.4 mm) space between screw heads and cabinet to slide range hood into place.



Power Supply Cable Installation

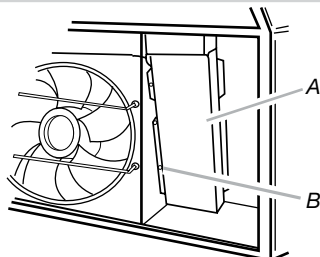
1. For direct wire installations, run the home power supply cable according to the National Electric Code or CSA standards and local codes and ordinances. There must be enough wiring from the fused disconnect (or circuit breaker) box to make the connection in the hood electrical terminal box.

NOTE

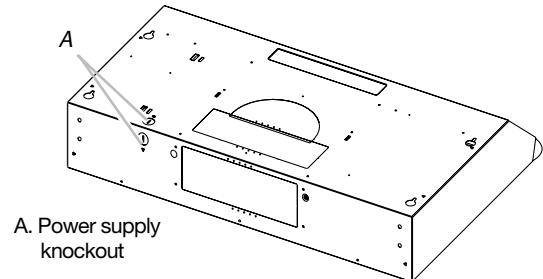
Do not reconnect power until the installation is complete.

2. Remove the screw from the terminal box cover. Remove terminal box cover and set aside.

A. Terminal box cover
B. Screw



3. Remove the power supply knockout from the top or rear of the vent hood (depending on the incoming location of your home power supply cable) and install a UL listed or CSA approved $\frac{1}{2}$ " strain relief.



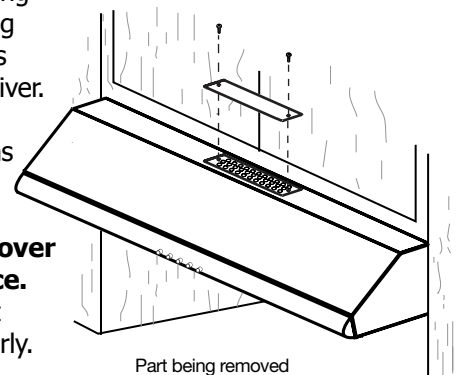
4. Using 2 or more people, lift the hood into final position. Feed enough electrical wire through the $\frac{1}{2}$ " UL listed or CSA approved strain relief to make connections in the terminal box. Tighten the strain relief screws.
5. Position the range hood so that the large end of the keyhole slots are over the mounting screws. Then push the hood toward the wall so that the screws are in the neck of the slots. Tighten the mounting screws, making sure the screws are in the narrow neck of slots.

Recirculation Vent Cover

For installations which are recirculating the air exhaust, **the recirculation vent cover must be removed.**

Remove the recirculating vent cover by removing the 2 mounting screws with a phillips screwdriver.

NOTE: For installations which are venting out the roof or wall, **the recirculating vent cover must remain in place.** Do not remove as unit will not perform properly.



To complete the installation, go to "Make Electrical Connection" section on page 12.