ELECTRICAL & INSTALLATION REQUIREMENTS

IMPORTANT
Observe all governing codes and ordinances.

It is the customer's responsibility:
- To contact a qualified electrical installer.
- To assure 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.
- Do not ground to a gas pipe.
- Check with a qualified electrician if you are not sure range hood is properly grounded.
- Do not have a fuse in the neutral or ground circuit.

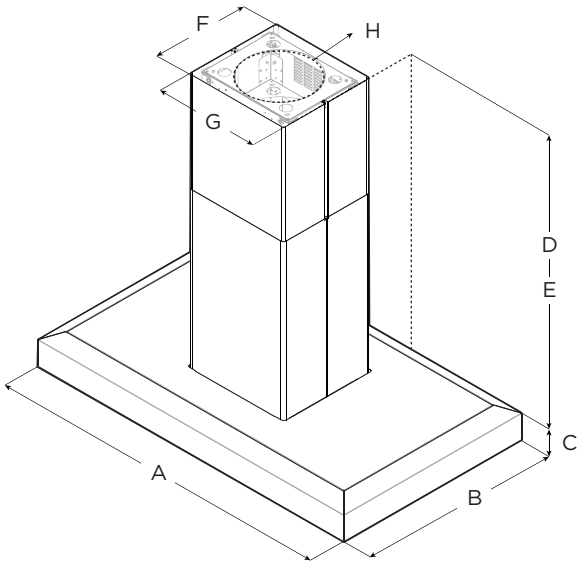
IMPORTANT
- Save Installation Instructions for electrical inspector's use.
- The range hood must be connected with copper wire only.
- The range hood should be connected directly to the fused disconnect (Or circuit breaker) box through metal electrical conduit.
- Wire sizes must conform to the requirements 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.
- A U.L.- or C.S.A.-listed conduit connector must be provided at each end of the power supply conduit (at the range hood and at the junction box).

Copies of the standards listed may be obtained from:
* National Fire Protection Association Batterymarch Park Quincy, Massachusetts 02269
** CSA International 8501 East Pleasant Valley Road Cleveland, Ohio 44131-5575

BEFORE INSTALLING THE HOOD

1. For the most efficient air flow exhaust, use a straight run or as few elbows as possible.
   CAUTION: Vent unit to outside of building, only.
2. At least two people are necessary for installation.
3. Fittings material is provided to secure the hood to most types of walls/ceilings, consult a Qualified Installer, check if they perfectly fit with your cabinet/wall.
4. Do not use flex ducting.
5. COLD WEATHER installations should have an additional backdraft damper installed to minimize backward cold air flow and a nonmetallic thermal break to minimize conduction of outside temperatures as part of the ductwork. The damper should be on the cold air side of the thermal break.
   The break should be as close as possible to where the ducting enters the heated portion of the house.
6. Make up air: Local building codes may require the use of Make-Up Air Systems when using Ducted 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.

DIMENSIONS AND CLEARANCES



	Models	
	EVI642S1	**EVI648S1**
A	42" (106.7 cm)	48" (122 cm)
B	24⅜" (62 cm)	
C	51$^{15}/_{16}$" (12.8 cm)	
D	Max: 51" (129.4 cm) Min: 30" (76 cm)	
E*	Max: 90" (229 cm) Min: 55" (140 cm)	
F	12" (30.5 cm)	
G	13$^{5}/_{64}$" (33.2 cm)	
H	8" (20.3 cm)	

* with Long Chimney Extension Kit

LIST OF MATERIALS

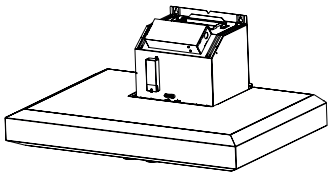
Removing the packaging.

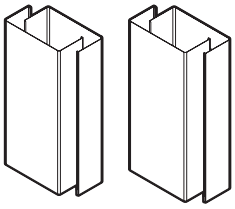
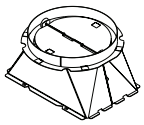
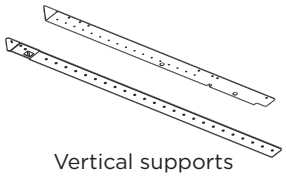
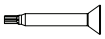
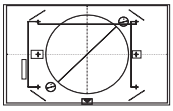
⚠ CAUTION

Remove carton carefully, Wear gloves to protect against sharp edges.

⚠ WARNING

Remove the protective film covering the product before putting into operation.

Supplied Part	Pieces
 Hood assembly with blower and LED lamps already installed	
 5x45 mm	4
 4.2x8 mm	60
 4 x 8 mm	4
 3.5x6.5 mm	4
 2.9x3 mm	2
 Leveling screws	2
 8x40 mm	4

Supplied Part	Pieces
 Lower and upper duct covers	Upper: 2 Lower: 2
 8” round air transition	1
 Duct cover brackets	4
 Vertical supports	Upper: 4 Lower: 4
 Torx adapter	#10: 1 #20: 1
 Mounting template	1

Parts no supplied

Tools/Materials required

- Wire nuts
- Tape to mount template
- 8” (20.3 cm) rounded metal duct length to suit installation
- Measuring tape
- Pliers
- Gloves
- Knife
- Safety glasses
- Electric drill with 5⁄16” and 3⁄8” bits
- Strain relief
- Spirit level
- Duct tape
- Phillips (Posidrive) #2 Screwdriver
- Wire cutter/stripper
- Masking tape
- Hammer
- Saw, jig saw or reciprocating saw

Parts needed

- Home power supply cable
- 1 - ½” (12.7 mm) UL listed or CSA approved strain relief
- 3 UL listed wire connectors
- 1 wall or roof cap
- Metal vent system

Optional accessories and consumable parts

KIT	# Part
Long Chimney Extension	KIT0145610
in Line Blower 1200 Kit	KIT0154387
External Blower 1200 Kit	KIT0153054

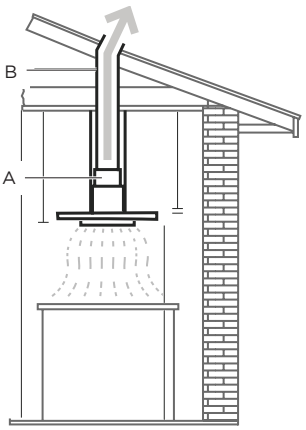
Ducting options

Closely follow the instructions set out in this manual.
All responsability, for any eventual inconveniences, damages or fires caused by not complying with the instructions in this manual, is declined.

Ducting version

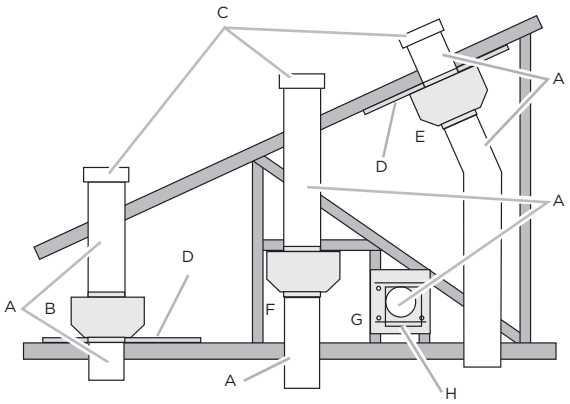
The hood is equipped with an 8” (20.3 cm) round transition for discharge of fumes to the outside.

Typical Internal Blower Motor System Venting Installations



A. 8” (20.3 cm) round transition
B. 8” (20.3 cm) round duct

Typical In-line Blower Motor System Venting Installations



A. 8” (20.3 cm) round vent
B. Mount on top of ceiling joists.
C. Roof caps
D. Plywood (optional for some installations)
E. Mount on underside of roof rafters.
F. Mount from cross-members tied to trusses.
G. Duct horizontal; mount to cross-members tied to trusses.
H. Wall cap

Preparation
Do not cut a joist or stud unless absolutely necessary. If a joist or stud must be cut, then a supporting frame must be constructed.
Fittings material is provided to secure the hood to most types of walls/ceilings.
However, a qualified technician must verify suitability of the materials in accordance with the type of wall/ceiling.
Before making cutouts, make sure there is proper clearance within the ceiling or wall for exhaust vent.

Recommended installation height:

⚠ CAUTION
For gas cooktop & range installations: Mount the hood so the bottom is at least 30” (76.2 cm) above the cooking surface.

For electric/induction cooktop & range installations: Mount the hood so the bottom is at least 24” (61 cm) above the cooking surface.

There is no maximum mounting height, however, we recommend mounting the hood no greater than 36” (91.4 cm) above the cooking surface. For every inch (2.54 cm) above 36” (91.4 cm), fume and moisture capture efficiency diminishes at an increasing rate and may not deliver an acceptable level of ventilating performance.
This hood is intended for household use.

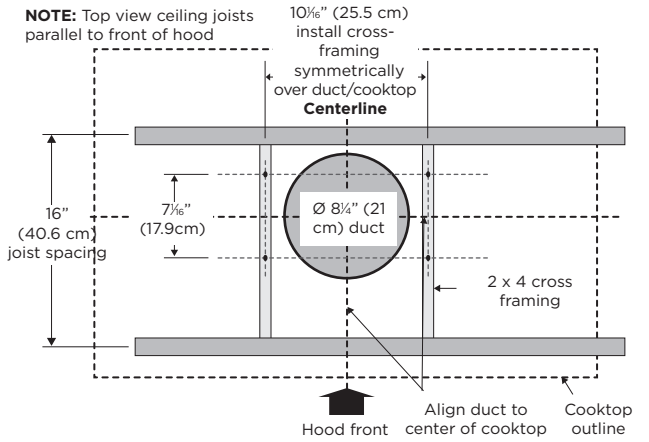
PLEASE READ THE INSTALLATION MANUAL FOR SPECIFIC APPLICATION. Check your ceiling height and hood height before selecting your hood.

Ceiling support structures

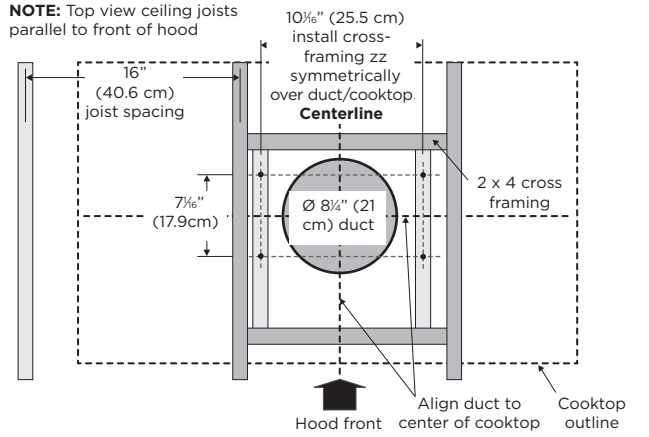
- This vent hood is heavy. Adequate structure and support must be provided in all types of installations.
- At the hood location, install 2"x 4" cross framing between ceiling joists as shown (2"x 4" are required to support the weight of the hood).
- Arrange cross framing in the ceiling to suit the existing structure.

Your ceiling joists will be like one of the following:

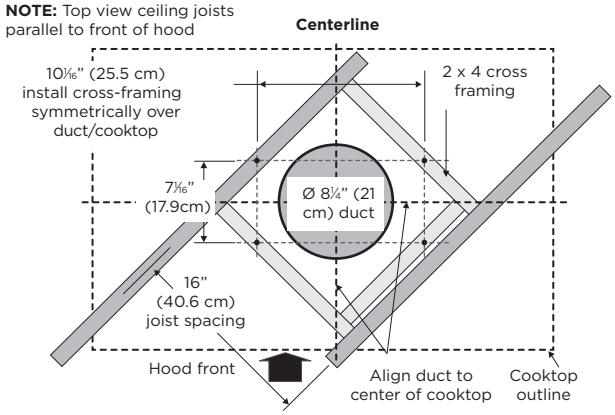
Example A



Example B

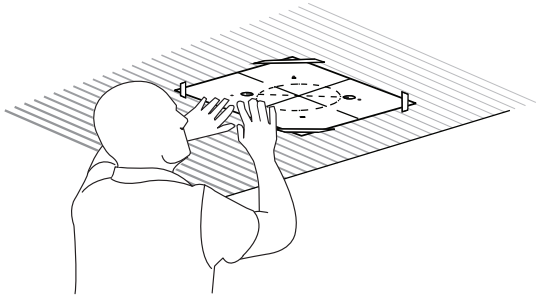


Example C

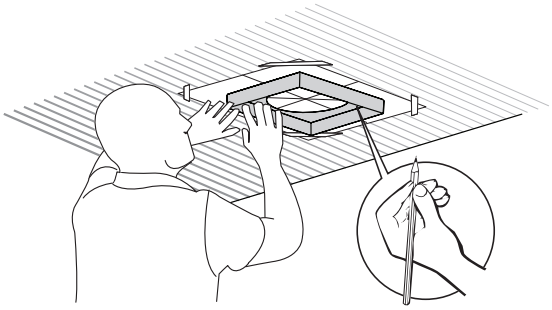


Install Range Hood

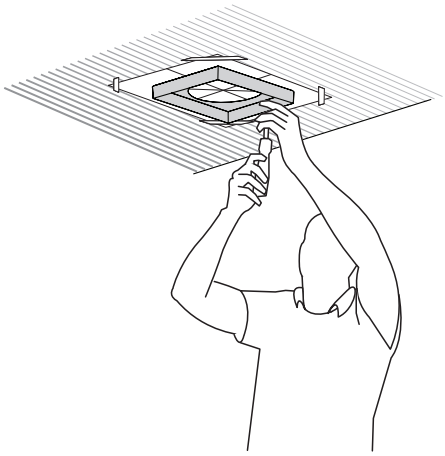
1 Place the template in the ceiling considering the instructions for ceiling support structures.
NOTE: Always consider the front of hood legend when playing the template on the ceiling.
It will define the control's location.



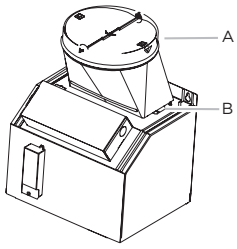
2 Mark with a pencil the hole locations for screws and duct in the ceiling.



3 Fix the upper horizontal support with 4 - 5x45 mm screws.

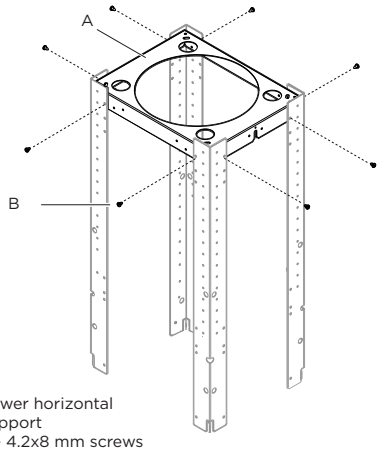


4 Install transition on top of hood (if removed for shipping) with 4 - 4 x 8 mm sheet metal screws.



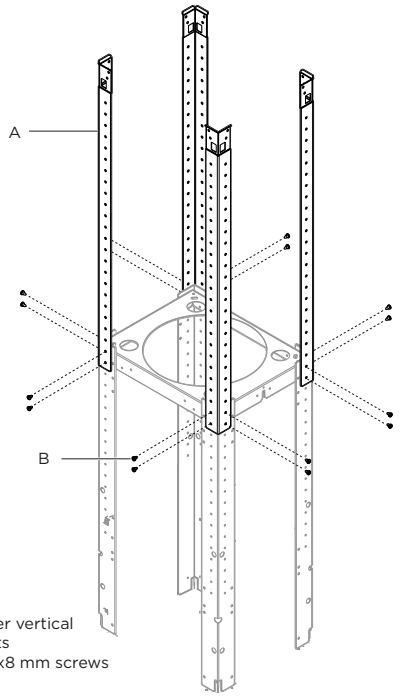
A. Vent transition
B. 4 x 8 mm screws

5 Install the lower horizontal support with 8 - 4.2x8 mm screws.



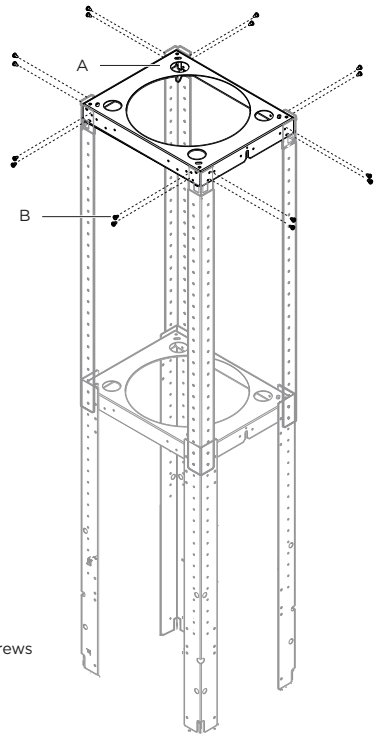
A. Lower horizontal support
B. 8 - 4.2x8 mm screws

6 Install the 4 vertical supports with 16 - 4.2x8 mm screws.



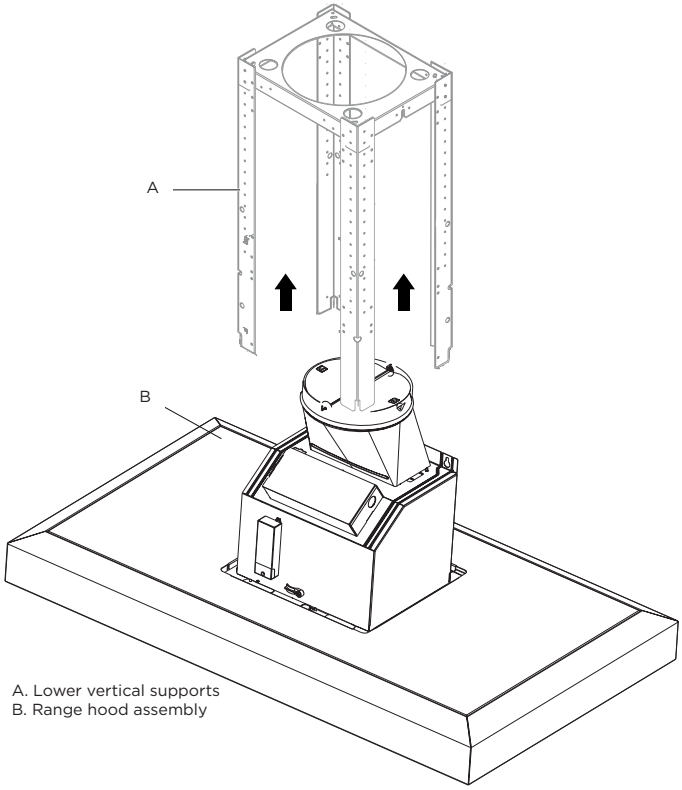
A. 4- Upper vertical supports
B. 16 - 4.2x8 mm screws

7 Install the structure to the horizontal support with 16 - 4.2x8 mm screws.



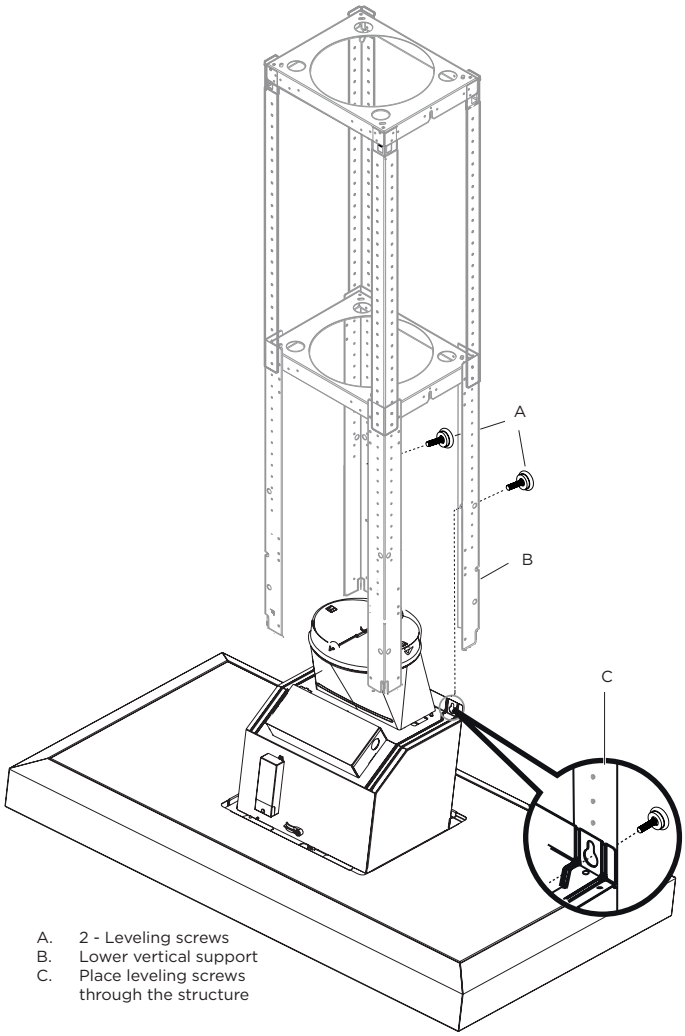
C. Upper horizontal support
D. 16 - 4.2x8 mm screws

8 Using 2 or more people, lift the range hood assembly under the structure.



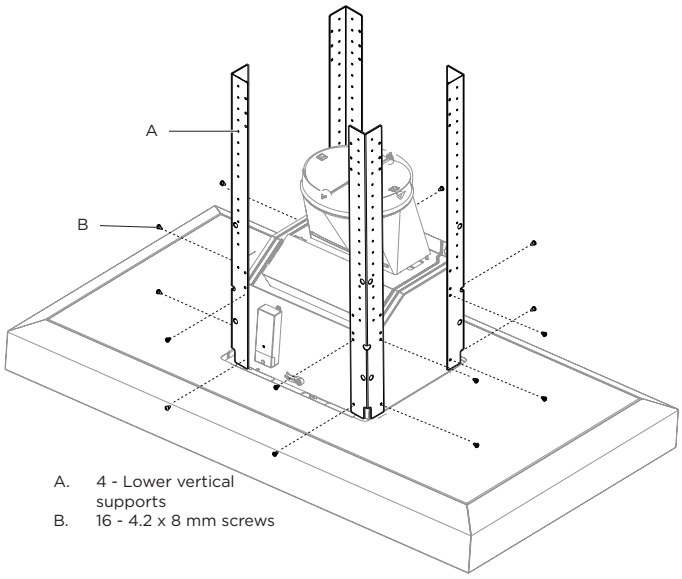
A. Lower vertical supports
B. Range hood assembly

9 Attach the range hood assembly to the lower vertical supports with 2 leveling screws.



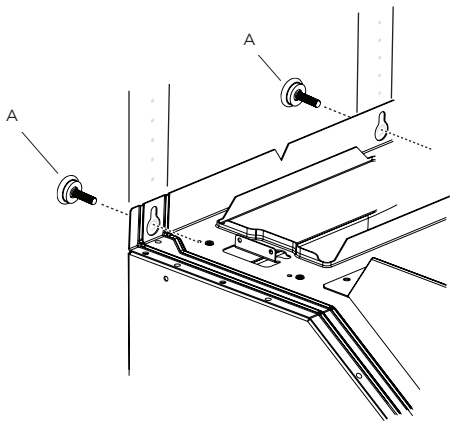
A. 2 - Leveling screws
B. Lower vertical support
C. Place leveling screws through the structure

10 Install the 4 vertical supports with 16 - 4.2x8 mm screws. Check everything is tightly screwed.



A. 4 - Lower vertical supports
B. 16 - 4.2 x 8 mm screws

11 Remove the 2 leveling screws from the structure.

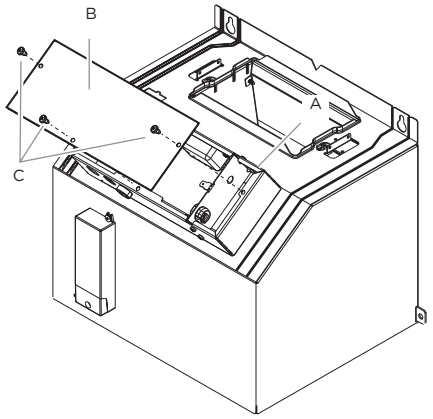


A. 2 - Leveling screws

Electrical Connection

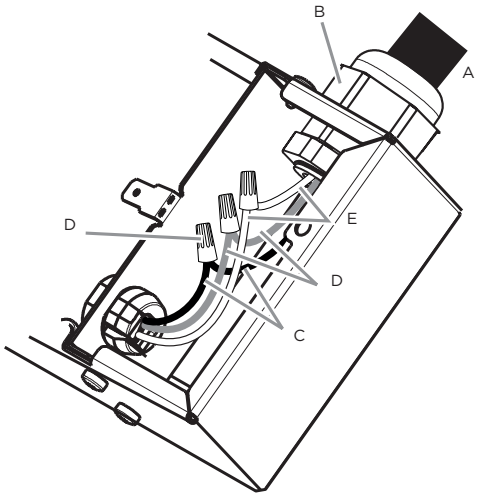
⚠ WARNING
ELECTRICAL SHOCK HAZARD.
⚠ WARNING
DISCONNECT POWER BEFORE SERVICING.
REPLACE ALL PARTS AND PANELS BEFORE OPERATING.
FAILURE TO DO SO CAN RESULT IN DEATH OR ELECTRICAL SHOCK.

1 Disconnect power.
2 Remove terminal box cover.
3 Remove the knockout in the terminal box cover and install a UL listed or CSA approved ½" strain relief.



A. Knockout
B. Junction box cover
C. Junction box cover screws

4 Run home power supply cable through strain relief, into terminal box.



A. Home power supply cable
B. UL listed or CSA approved strain relief
C. Black wires
D. UL listed wire connectors
E. White wires
F. Green (or bare) and yellow-green ground wires

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

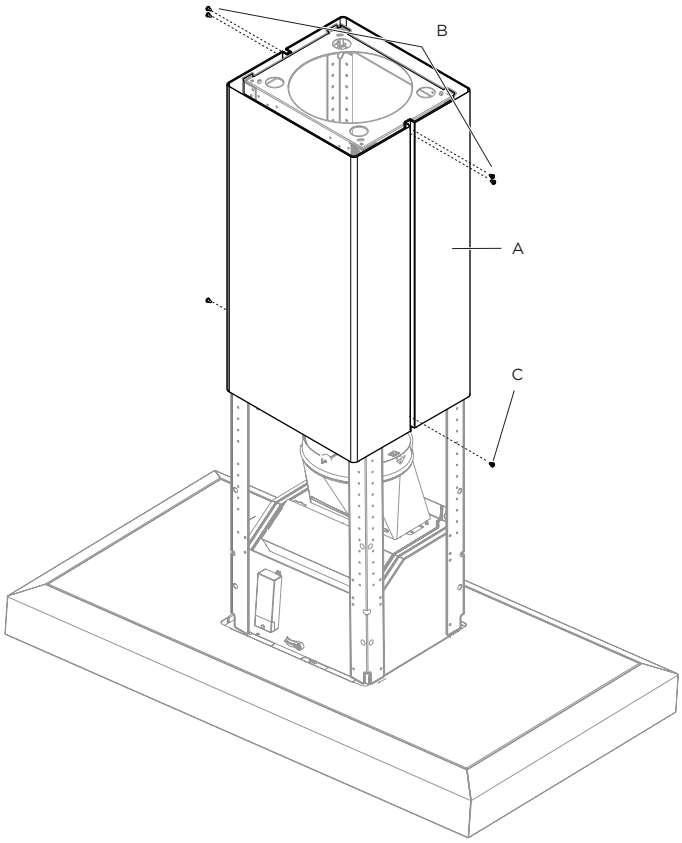
⚠ WARNING
ELECTRICALLY GROUND BLOWER.
CONNECT GROUND WIRE TO GREEN AND YELLOW GROUND WIRE IN TERMINAL BOX. FAILURE TO DO SO CAN RESULT IN DEATH OR ELECTRICAL SHOCK.

4 Connect green (or bare) ground wire from home power supply to yellow-green ground wire (D) in terminal box using UL listed wire connectors.
5 Tighten strain relief screw.
6 Install terminal box cover.
7 Check that all light bulbs are secure in their sockets.
8 Reconnect power.

Complete the Installation

Duct cover installation

- Attach the upper duct covers using the installation screws shown in the figure.



A. Upper duct covers
B. 4 - 3.5x6.5 mm installation screws
C. 2 - 2.9x3 mm screws