

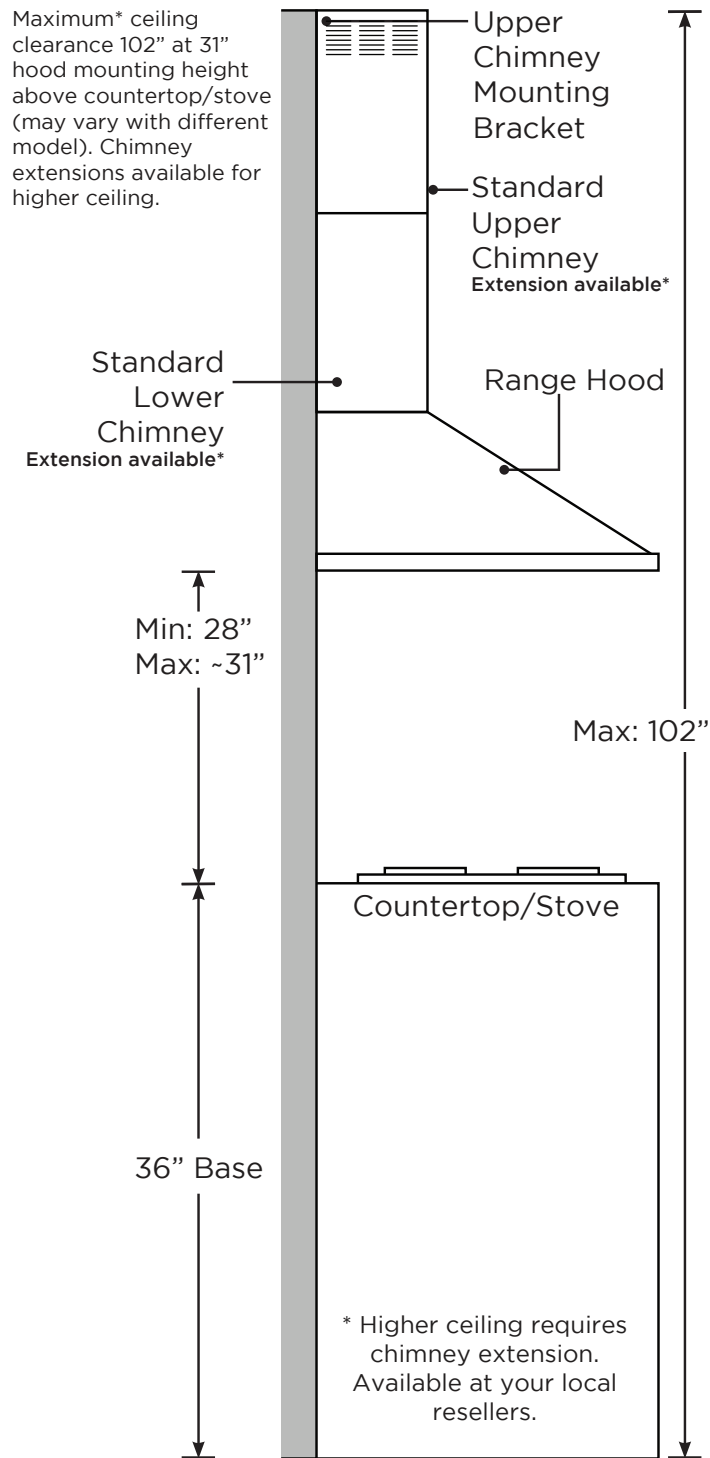
Venting Requirements

- Vent system must terminate to the outside (roof or side wall).
- DO NOT terminate the vent system in an attic or other enclosed area.
- DO NOT use 4" (10.2 cm) laundry-type wall caps.
- Use metal/aluminum ducting only. Rigid metal/aluminum ducting is recommended.
- Always keep the duct clean to ensure proper airflow.
- Calculate the following figures before installation:
 1. Distance from the floor to the ceiling. **(less than 102")*.
 2. Distance between the floor to the countertop/stove. *(Recommend* 28" to about 36")*.
 3. Distance between the countertop/stove to the range hood. *(Recommended 28" to ~31")*.
 4. Height of range hood body and chimney covers combined. *(Extension available*)*

For the most efficient & quiet operation:

- A distance of 28" to 31" is recommended between stove top and the bottom of range hood.
- "28" is the lowest recommended for safe operation; 31" is only recommended for efficient operation, but can be mounted higher."
- It is recommended that the range hood be vented vertically through the roof through 6" (15.24 cm) or larger round metal/aluminum vent work.
- The size of the vent should be uniform.
- Use no more than three 90° elbows.
- For best results, attempt to make a minimum of 24" (61 cm) of straight vent between the elbows if more than one elbow is used.
- DO NOT install two elbows together.
- The length of vent system and number of elbows should be kept to a minimum to provide efficient performance.
- The vent system must have a damper. If roof or wall cap already has a damper, DO NOT use the supplied damper (if applicable).

Height & Clearance



- Use duct tape or equivalent to seal all joints in the vent system.
- Use caulking to seal exterior wall or roof opening around the cap.

** Due to different ceiling height configurations, recommended height may not be applicable.*

Height & Clearance

IMPORTANT:

- A minimum of 6" round (standard for this range hood) or 3 1/4" x 10" rectangular duct (purchased separately) must be used to maintain maximum airflow efficiency.
- A flexible 6" round duct is provided for convenience and for use in difficult installations, however always attempt to use a smooth metal/aluminum rigid type of ducting to maximize airflow efficiency.
- ALWAYS, when possible, reduce the number of transitions and turns. If long duct run is required, increase duct size to 7" or 8". If a reducer is used, install a long reducer instead of a pancake reducer. Any reductions of duct size will restrict and decrease airflow; to maximize airflow flow efficiency place any reducers furthest away from any bends or transitions.
- If turns or transitions are required, install them as evenly distanced as possible, and as far away from the range hood as possible.
- Please use Duct Run Calculation below to compute the total available duct run when using elbows, transitions and caps.
- It is important to install the hood at the proper mounting height. Hoods mounted too low is considered unsafe and could result in heat damage and fire hazard; while hoods mounted too high are harder to reach and will loose general effectiveness.
- Minimum mount height between stove top to hood bottom should be no less than 28". Any less is considered unsafe and not recommended.
- Maximum mount height between stove top to hood bottom can be higher than 31 inch*, but is recommended to be the best efficiency. (Extension available*)
- If available, also refer to stove top manufacturer's height clearance requirements and recommended hood mounting height above range.

** Due to different ceiling height configurations, recommended height may not be applicable.*

Minimum Duct Size:

- Round - 6" minimum
- Rectangular - 3 1/4" x 10" minimum (requires a 6" to 3 1/4" x 10" adaptor, not supplied)

Duct Size Upgrade Calculator

Minimum duct size recommended is 6" round (or 3 1/4" x 10" rectangular). Maximum duct length recommend is 50 ft. Any duct length over 50 ft is recommended to use a larger diameter duct size.

Survey the installation application and record the estimated length of ducting required or used for that application. Record the number of bends, angle of bends, and/or any transitional pieces used. Each bend or transition will reduce air flow and reduce the recommended duct length.

Duct Deductions:	
Each 90° bend	9 ft
Each 45° bend	5 ft
Each 6" to 3 1/4" x 10" transition	7 ft
Side wall cap with damper	1 ft
Roof Cap (with factory Damper)	1 ft

Duct Deduction Calculation Example:

(1) 90° bend, (1) 3 1/4" x 10" transition, (2) 45° bends, (1) sidewall cap with damper (with factory damper not installed)
 $-9\text{ft} + -7\text{ft} + -5\text{ft} + -5\text{ft} + -1\text{ft} = -27\text{ft}$

Deduct 27 ft from 50 ft, giving you 23 ft of available straight ducting before it is recommended to upgrade your ducting size.

Venting Methods

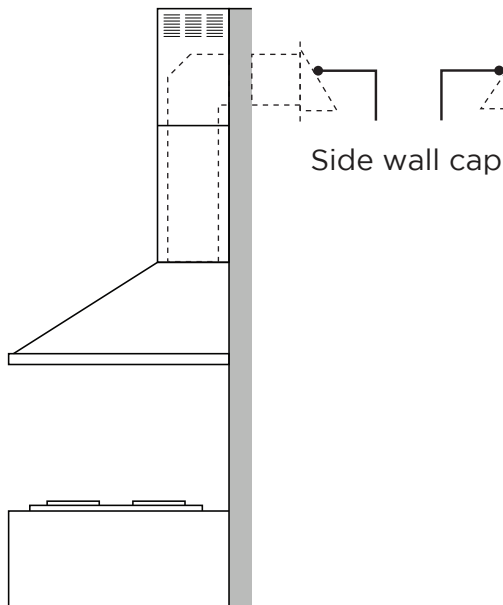
- This range hood is factory set for venting through the roof or wall.
- Vent work can terminate either through the roof or wall. To vent through a wall, a 90° elbow is needed.

IMPORTANT:

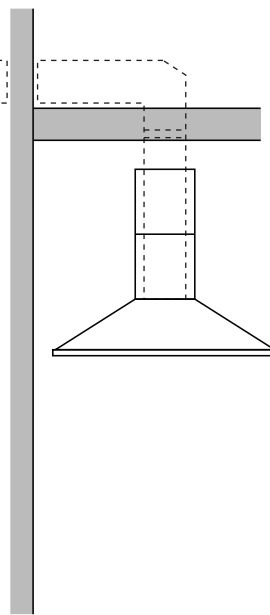
- NEVER exhaust air or terminate duct work into spaces between walls, crawl spaces, ceiling, attics or garages. All exhaust must be ducted to the outside.
- Use metal/aluminum duct work only.
- Fasten all connections with sheet metal screws and tape all joints with certified duct tape or equivalent.
- Use caulking to seal exterior wall or roof opening around the cap.

Horizontal Wall Venting

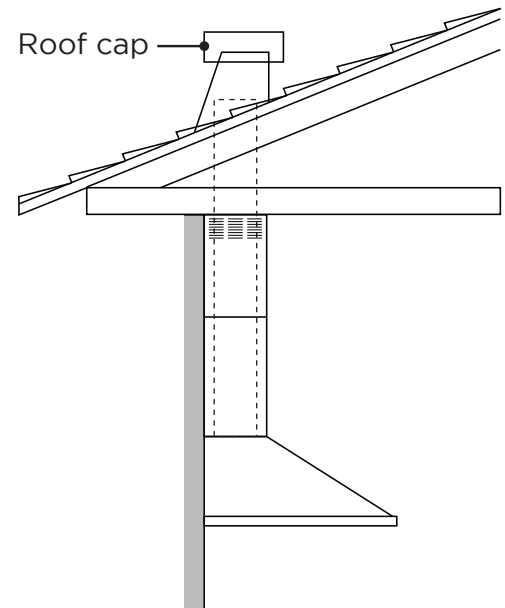
Option 1:



Option 2:



Vertical Roof Venting



Charcoal Filter Installation

NOTE: T

1. Remove aluminum filters on hood.
2. Position the charcoal filters onto the side of the motor, aligning the mounting points, turn until it locks. Re-install aluminum filters.
3. Charcoal filters must be replaced after 120 hours of use (or approximately every 2 to 3 months based on the average of 1 to 2 hours of daily cooking time). Available at your local resellers.

Electrical Requirements

IMPORTANT: Observe all governing ordinances and local codes.
(Please consult with a qualified electrician for any electrical wiring)

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.
- Provide a circuit protected power service; preferably a Ground Fault Circuit Interrupter ("G.F.C.I."): 120-volt, 60 Hz, AC, with at least 5-amps of available service.
- Enlist a qualified electrician to ensure the range hood and electrical lines are adequately grounded and properly protected. **NEVER** electrically ground to a gas pipe.

IMPORTANT: Save this Installation Guide for future reference and/or electrical inspector use.

The range hood should be connected with a circuit breaker protected power service.

Wire sizes (copper wire only) and connections must conform with the rating of the appliance as specified on the model/serial rating label. 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 cable (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

Preparation

Advanced Preparations:

1. Be familiar with the controls of the range hood by reading through Range Hood Operations, Page 12.
2. Place the range hood on a flat, stable surface. Connect the range hood to a designated standard outlet (please refer the product label for the suitable voltage of this unit) and turn on the range hood. Verify all operations of the range hood by referring to Range Hood Operations, Page 12.
3. Place all supplied parts and required hardware on a flat, stable surface and verify the existence of all supplied parts listed on Page 4.
4. Carefully remove the white plastic protective coat from the chimney covers and range hood.



WARNING

Excessive Weight

Require three or more persons to move and install this range hood. Spinal or other bodily injuries could occur if it is not followed.

Preparations:

NOTE: To avoid damage to your hood, prevent debris from entering the vent opening.

1. Determine and mark the center line on the ceiling where the range hood will be installed. Make sure there is proper clearance within the ceiling or wall for exhaust vent.
2. Due to the weight and size of this unit, please make sure that the support system or framework being used is stable and secure in the wall or ceiling.
3. Put a thick, protective covering over counter top, cook top or range to protect from damage or dirt. Remove any hazardous objects around the area when installing.
4. Mark the locations of the support mounting bracket holes, ducting cutout (if used) and power supply cable cutout on the ceiling. Use drill and saber saw or keyhole saw to cut openings for power supply cable and ducting (see *Venting requirements* and *Electrical requirements*, Pages 5-8).
5. If venting to the outside install vent system (see *Venting Methods*, Page 7). Use caulking to seal exterior wall or roof openings.
6. Disconnect main electrical supply, prepare and run electrical wiring through ceiling or wall. Install a power outlet within reaching distance of the range hood assembly. DO NOT restore power until installation is completed.
7. Disconnect power cord, remove the aluminum filter by pressing on the latch toward the direction of solid arrow while holding the metal handle, gently pull the aluminum filter toward the direction of dashed arrow as shown in Figure 1.
8. Remove the grease cup by sliding it sideways, see Figure 2 for location of the grease cup.
9. Set aside the aluminum filters and grease cup until the range hood is properly installed.
10. *If the range hood comes with a glass canopy and has not already been mounted to the hood, loosen the four canopy screws and washers from the hood top, carefully place the canopy on the hood top, and loosely tighten the four canopy screws along with washers. DO NOT put excessive pressure against the glass.*

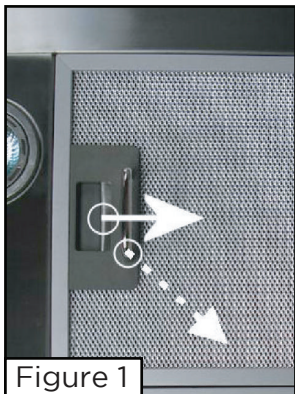


Figure 1

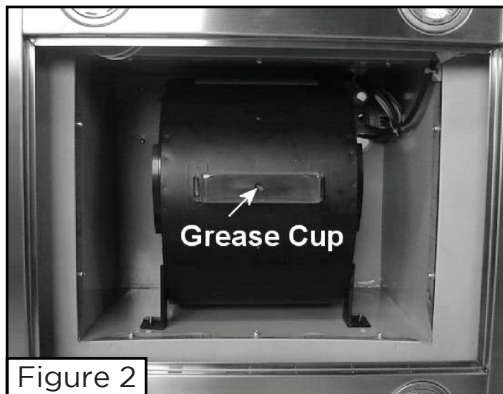


Figure 2

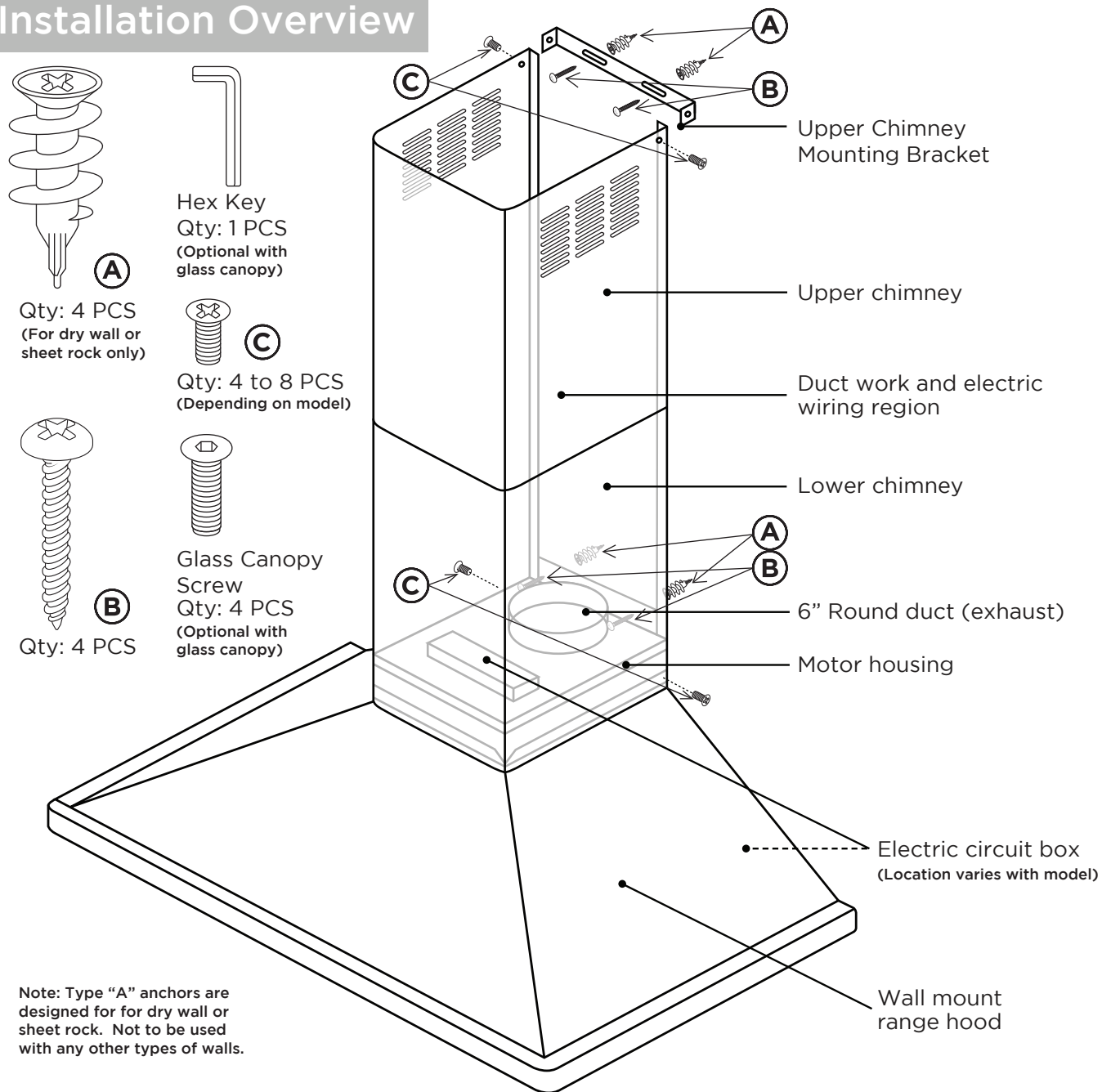


WARNING

Severe Injury

Rotating fan can cause severe injury. Stay clear of fan when power is present.

Installation Overview



Installation


1. Confirm where you want your range hood installed:

Confirm your centerline and side measurements of each piece of hardware. Measure the distance between stove top and the bottom of range hood and confirm a *recommended distance of 28" to 31".

**Due to different ceiling height configurations, recommended height may not be applicable. Use removable tape, pencil or erasable marker to mark your ideal installation.*

2. Mark the mounting locations for the range hood body:

Make sure the range hood is level, not tilted, and not colliding against other objects.



WARNING

Hazard of electrical shock!

Do not perform service on an electrically live system. Disconnect the main electrical supply before servicing this device. Touching electrical connectors or other exposed electrical circuitry inside this range hood when they are energized could result in death, serious bodily injury, or property damage.

Installation (Continued)

Mark the locations of the keyhole shaped hanging bracket holes onto the wall as shown in Figure 3A and Figure 3B.

3. Mark the mounting locations for the upper chimney mounting bracket:

Inspect how this bracket installs into the upper chimney cover, use that as reference to where you want your upper chimney installed and where the bracket should be installed onto your wall.

Place the mounting bracket squarely above the range hood, level it and mark the locations of the mounting bracket holes on the wall.

4. Predrill holes for mounting hardware:

Safely place aside all equipment and review all marked regions and drill holes. Review fastening hardware to be used. Recommended for your type of wall:

- Sheet rock, drywall or wood walls where the structural studs or solid structural support are accessible: screw directly into the structural studs or structural support, with hardware that meets or exceeds the factory hardware, with at least 1" of thread engagement.
- Sheet rock, drywall or wood walls where the structural studs or solid structural support are not accessible: Affixing the range hood to into structural studs is highly recommended. If stud blockings are not available, it is recommended to build a support structure behind the sheet rock for the best weight support. If wall anchors are used, ensure their hanging capacity exceeds the weight of the range hood, hardware, and estimated usage load.
- Concrete wall: Use designated concrete screws and/or anchors (not provided) that meet or exceed the factory hardware specifications. Ensure proper load ratings. Follow instructions of concrete screw manufacture.

5. Install the range hood body (if using factory hardware):

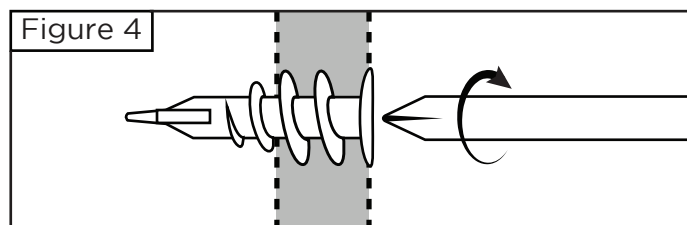
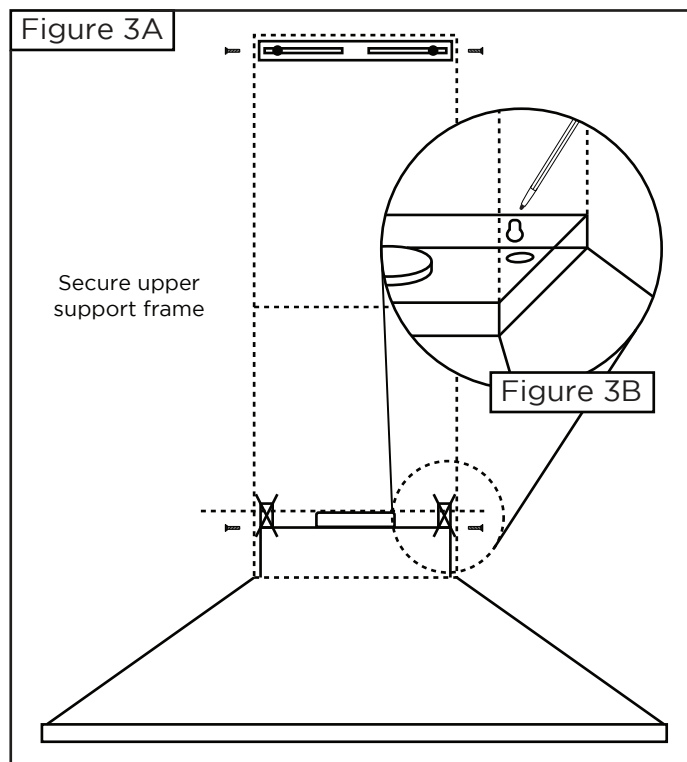
Fasten (2) two Type "A" anchors flush into the wall as shown in Figure 4, over your previously marked locations for mounting the range hood body. Loosely fasten (2) two Type "B" screws into the anchors - DO NOT fasten screws all the way down; leave approximately $\frac{3}{32}$ " of gap from the wall to the screw head. Hang the range hood body onto the Type "B" screws. Ensure the range hood is level and then fasten the screws completely. Note: for wall mounted range hoods (not island mounted), the rear panel of the range hood body (against the installation wall) is plain sheet metal and can be drilled and screwed into the wall for additional stabilization. DO NOT drill into or screw through any wires, any wire harnesses, or any critical fixtures.

6. Install the upper chimney mounting bracket (if using factory hardware):

Repeat step "6" for the upper chimney mounting bracket previously marked in step "3".

7. Install the flexible duct tube:

First install the flexible duct tube onto your household ducting and then extend the ducting downward, allowing about 6 inches of extra ducting; cut off excess ducting.



Installation (Continued)

Install the ducting onto the range hood (body) duct adaptor. Use certified ducting tape or fastening devices.

8. Install power plug:

Plug in the power cord into your power socket. **DO NOT** turn on main power supply until installation is complete; or if a function test is desired (should be done before starting installation); clear workspace; ensure workspace is safe, and then temporarily supply power to unit and then test functions. Please ensure to completely **SHUT OFF POWER SUPPLY** after testing and before continuing installation.

9. Install the upper chimney cover:

Having the installation hardware readily available, align the upper chimney cover with the pre-installed (upper chimney) mounting bracket and then screw the hardware through the chimney into the mounting bracket. Remove any finish protection wrapping.

10. Install the lower chimney cover:

Confirm the orientation of the lower chimney cover; pull, stretch or flex the rear opening of the chimney so it is temporarily larger than the upper chimney cover, carefully install or wrap the lower chimney over the upper chimney cover and range hood body. Screw in the mounting hardware through the lower chimney cover into the range hood body. Remove any finish protection wrapping.

11. Install remaining accessories and operation check:

Install grease cup and aluminum (or optional stainless steel baffle) filters then check the operation of the range hood. Remove any other finish protection wrapping. Use stainless steel cleaner to remove any finger prints or marks.

Figure 5

