

INSTALLATION GUIDE

READ AND SAVE THESE INSTRUCTIONS

Installer: leave this guide with homeowner.

Register your product online at www.broan-nutone.com/register.

For Warranty Statement, Service Parts, Technical Support, or to Register your product, please visit our website or call:

In the United States - Broan-NuTone.com 800-558-1711.

In Canada - Broan-NuTone.ca 800-567-3855.

PTE511RK:

50-80-110 Selectable CFM
with Continuous Run Fan

PTEL511RK:

50-80-110 Selectable CFM
with Continuous Run Fan/Light

PTE1115RK:

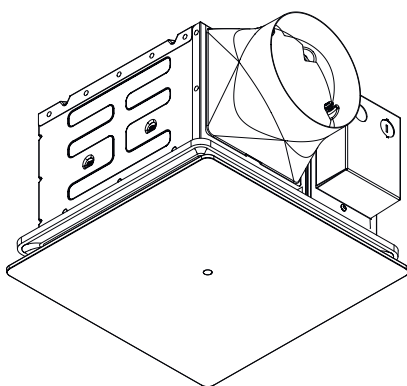
110-130-150 Selectable CFM
with Continuous Run Fan

PTEL1115RK:

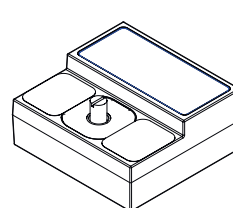
110-130-150 Selectable CFM
with Continuous Run Fan/Light

PES: Humidity Sensing Module

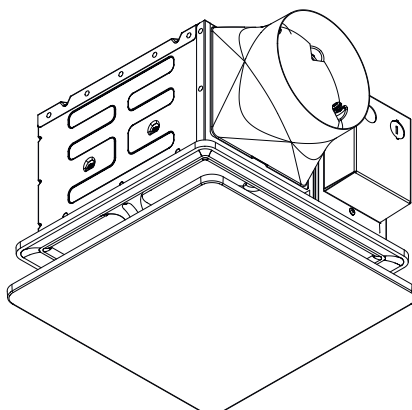
PEM: Motion Sensing Module
(available only with PTE511RK and
PTE1115RK models)



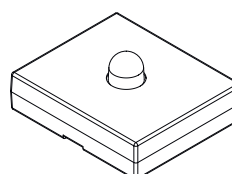
PTE1115RK



PES



PTEL1115RK



PEM



Scan this QR code for helpful hints.

**Easy installation in both
new construction and retrofit**

Table of Contents

Warnings and Cautions	2
Typical Installation	2
Preparation	3
New Construction/Retrofit Installation	4
New Construction Installation	5
Retrofit Installation	6
New Construction/Retrofit Installation	7
Operation	12
Cleaning and Maintenance	13
Troubleshooting	13

WARNING

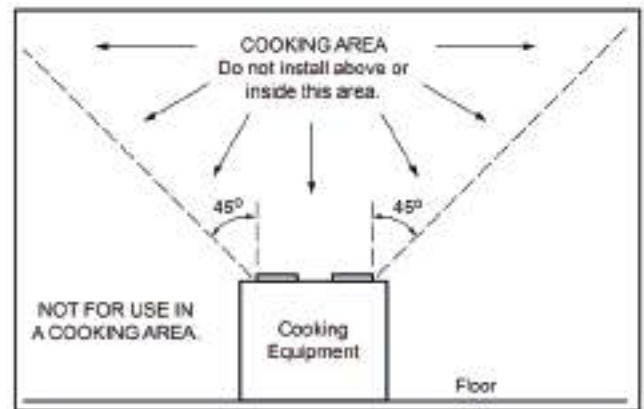
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
2. Acceptable for use over a tub or shower (PTE511RK and PTE1115RK models only) when connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit.
3. Ducted fans must always be vented to the outdoors.
4. Use only ON/OFF switch, mechanical timer or relay-switched control.
5. Before servicing or cleaning unit, switch power off at service panel and lock the service 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.
6. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
7. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
8. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
9. This unit must be grounded.
10. Do not use replacement parts that have not been recommended by the manufacturer (e.g. parts made at home using a 3D printer).

11. Monitor your fan for unusual sounds, smells and smoke. If any appear, turn off the fan immediately and replace it.
12. When performing service, maintenance and installation work, gloves and safety glasses are recommended.
13. Do not use this fan with any solid-state speed control device.

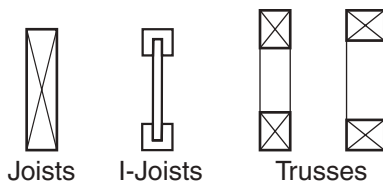
CAUTION

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. This product is designed for installation in ceilings up to a 12/12 pitch (45 degree angle). Duct connector must point up. **DO NOT MOUNT THIS PRODUCT IN A WALL.**
3. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
4. Please read specification label on product for further information and requirements.

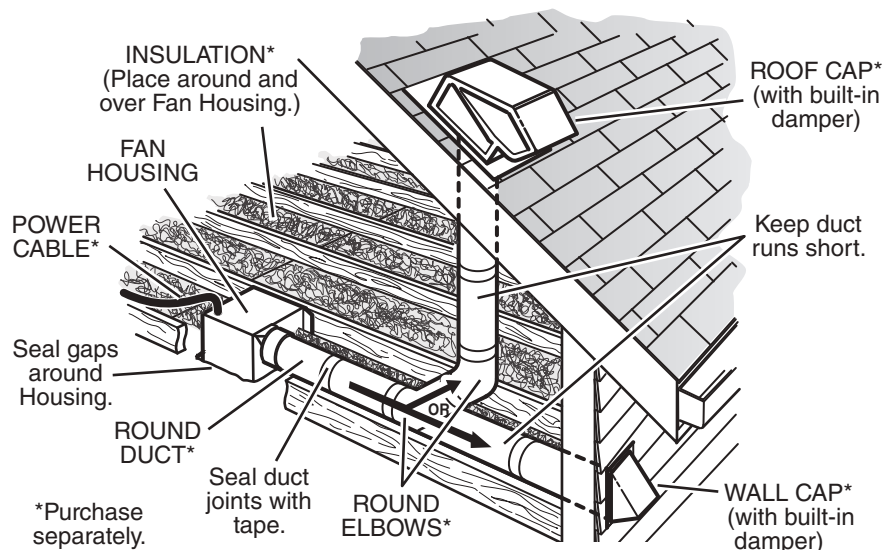


Typical Installation

- Installation is the same for:



- Fits in 2" x 8" ceiling construction.
- Infinitely adjust the fan position between joists from 14" to 24" on center.
- Can be installed between joists or trusses if the distance between them is 10½".
- Do not install this fan in a ceiling thermally insulated to a value greater than R40.

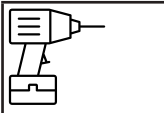

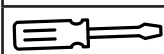








The ducting from this fan to the outside of the building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow.



6-inch round rigid metal duct is recommended for best performance.

Preparation

Tools Needed

	Power screwdriver with a Phillips bit
	Phillips screwdriver
	Flathead screwdriver
	Pliers
	Wire insulation stripper
	Wire cutter
	Foil tape
	Safety glasses
	Safety gloves

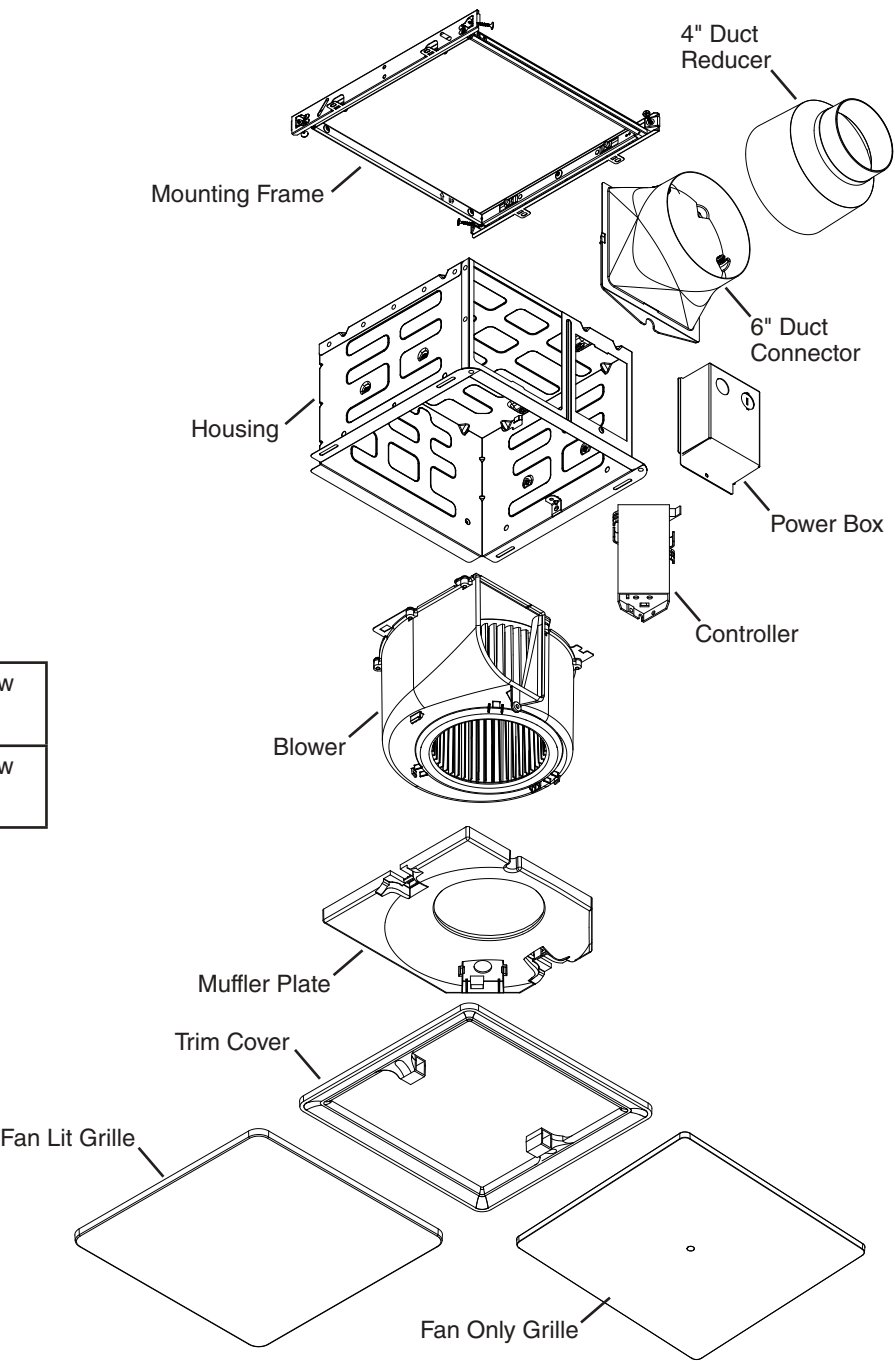
Parts Bag Content

	5 X Phillips Hex Head Screw
	2 X Phillips Pan Head Screw

Materials Needed

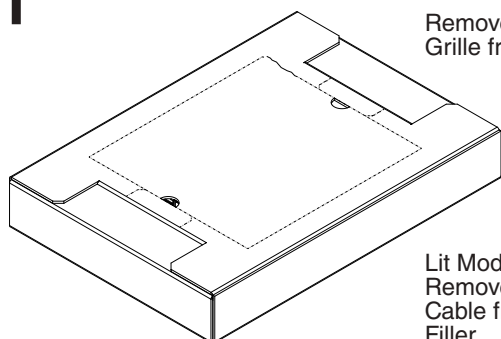
- 6" round metal ducting for PTE1115RK and PTEL1115RK models
- 4" round metal ducting for PTE511RK and PTEL511RK models
- Roof cap or wall cap (built-in damper recommended)
- Electrical wiring and supplies per local code requirements

Fan Main Parts



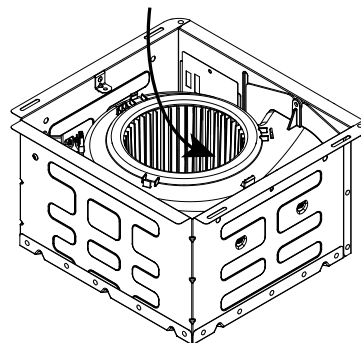
New Construction/Retrofit Installation

1 Remove Packaging



Remove
Grille from Grille Filler.

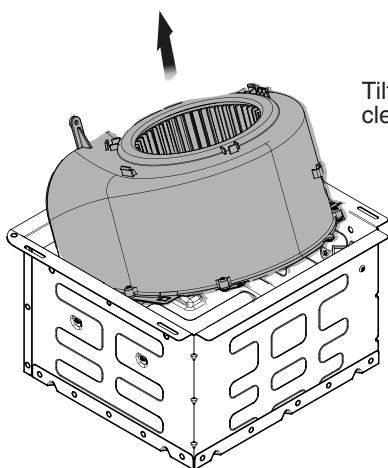
Lit Models Only:
Remove Jumper
Cable from Grille
Filler.



Remove
Parts Bag from
Blower.

2 Remove Blower Assembly

- Slide the Blower Assembly. Tilt the Blower Assembly.
- Remove and set aside the Blower Assembly.



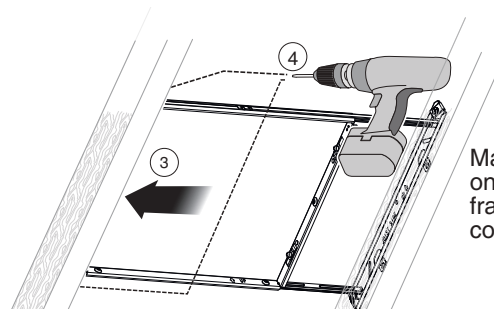
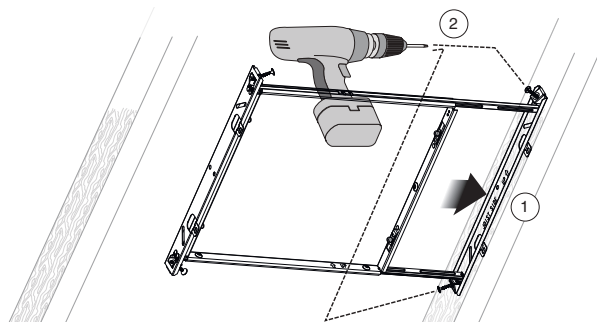
Tilt blower to
clear metal tabs.

New Construction Installation

3 Mount Housing

Using Mounting Frame (Recommended Installation)

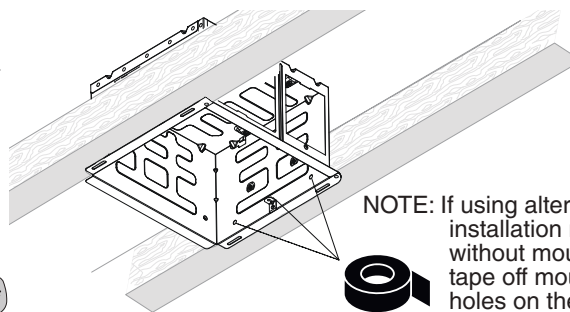
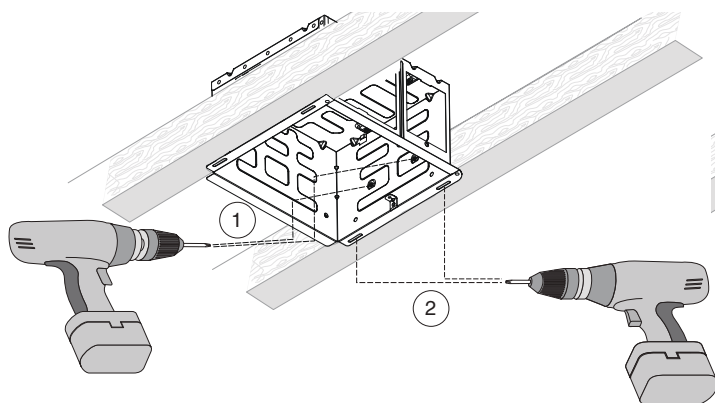
Mount the frame 1/2" above the bottom of the joist. Housing flange should be level with the joist when installed.



Make sure UP
on the mounting
frame is oriented
correctly.

NOTE: Use 4 screws preattached to mounting frame to mount to joist.

Directly to Joist (Alternate Installation)

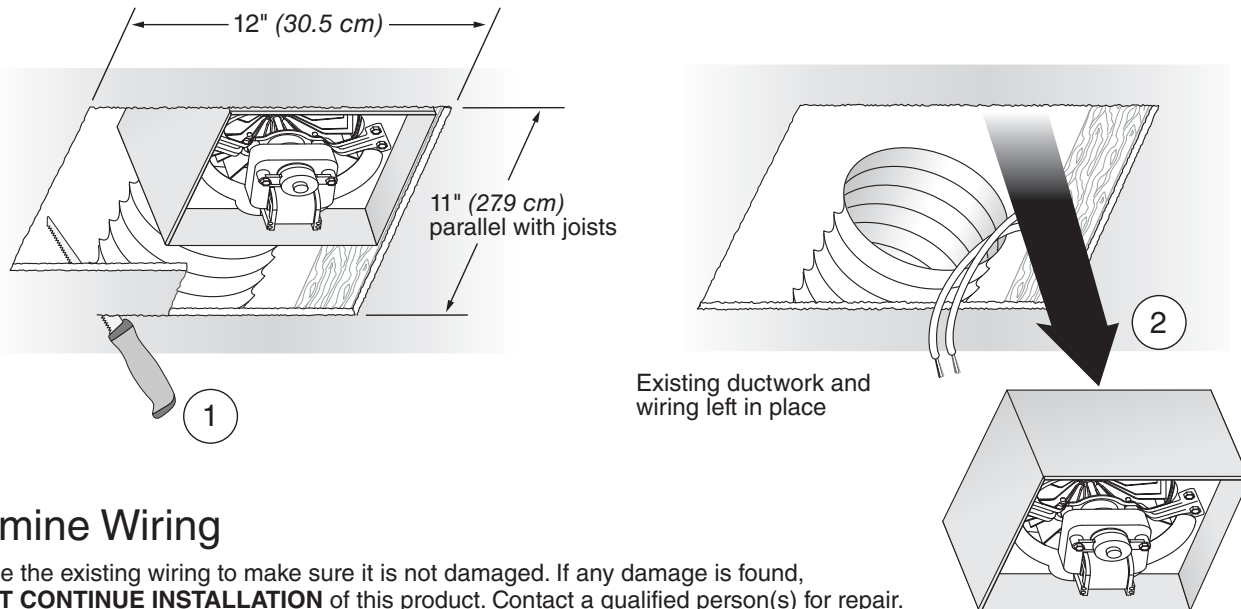


NOTE: If using alternate
installation method
without mounting frame,
tape off mounting frame
holes on the housing,
on both sides, using
foil tape to prevent air
leakage.

NOTE: Use 4 screws preattached to mounting frame to mount to joist.

Retrofit Installation

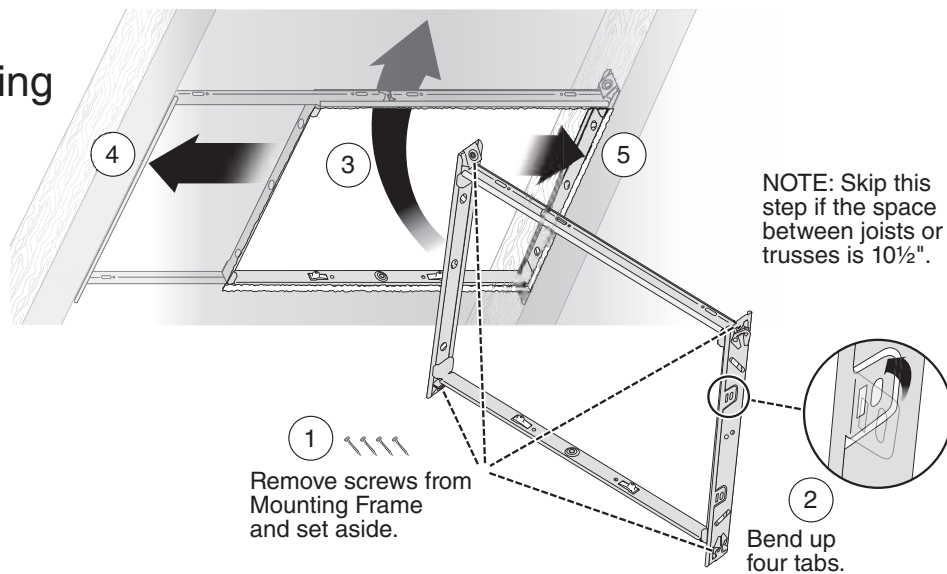
1 Enlarge Ceiling Opening and Remove Existing Fan



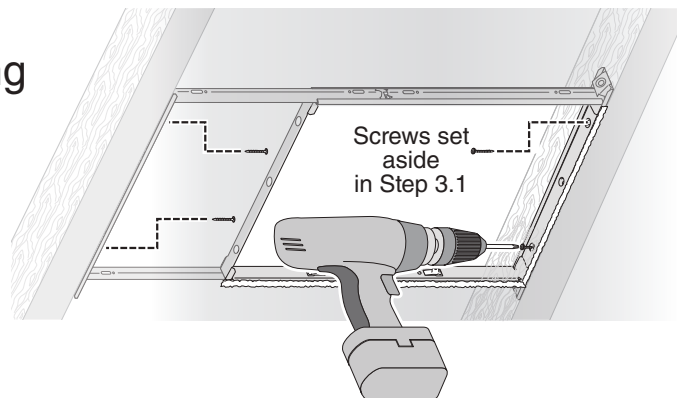
2 Examine Wiring

Examine the existing wiring to make sure it is not damaged. If any damage is found, **DO NOT CONTINUE INSTALLATION** of this product. Contact a qualified person(s) for repair.

3.1 Insert Mounting Frame



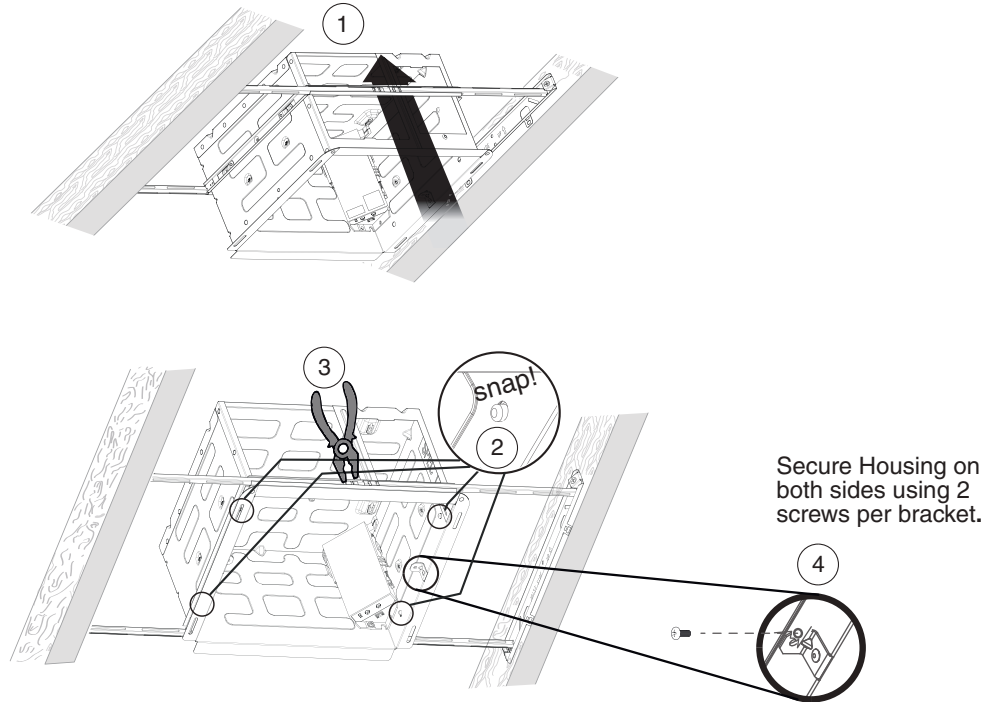
3.2 Secure Mounting Frame



New Construction/Retrofit Installation

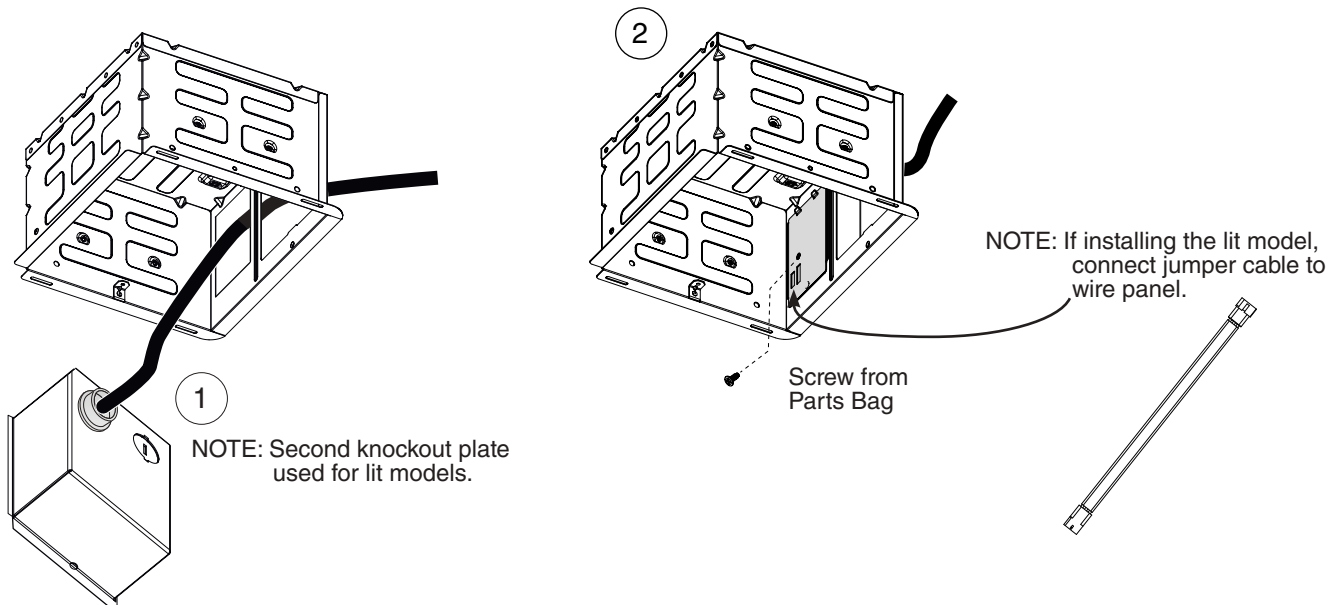
4 Snap-in and Secure Housing

Position Housing between joists and crimp channel on both sides of Mounting Frame to lock Housing in place. **Do not crimp Housing.**



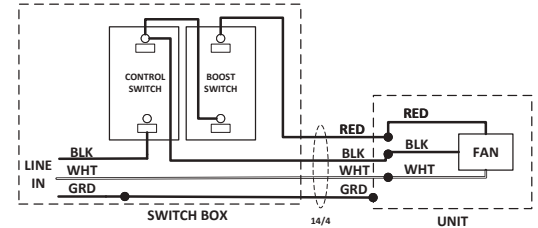
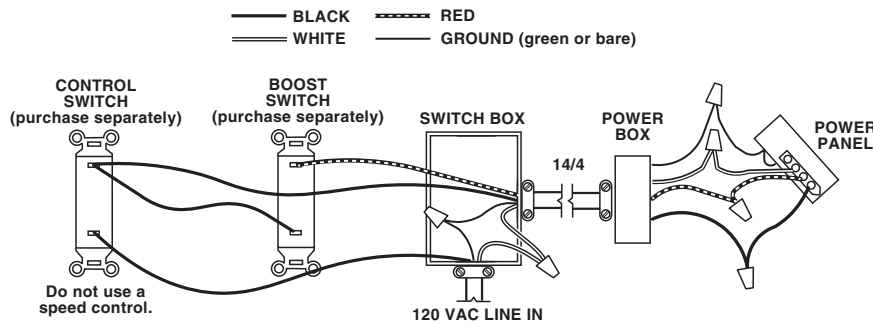
5 Insert Power Box into Housing

- 1- Run 120 VAC electrical wiring to the installation location.
- 2- Attach cable clamp to the Power Box.
- 3- Secure house wiring using cable clamp.
- 4- Connect wires on power panel to 120 VAC as shown in wiring diagram.
- 5- Assemble the Power Panel to the Power Box. Secure Power Panel using provided screw.

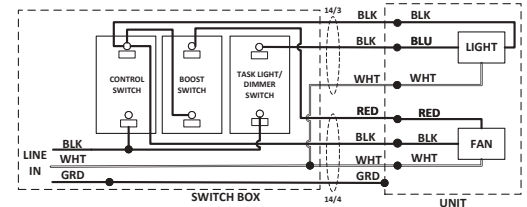
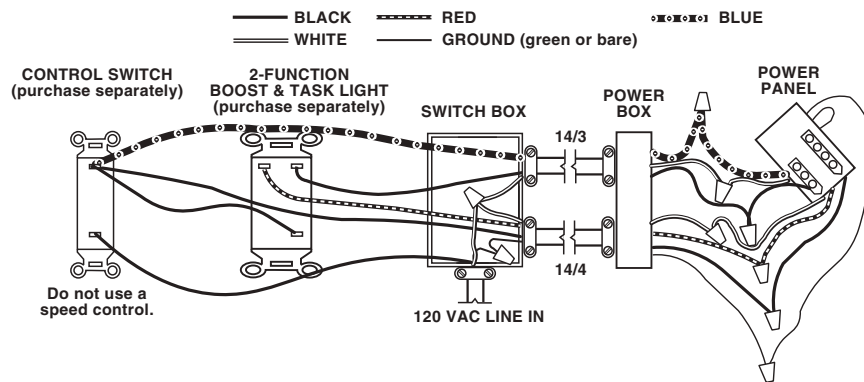


New Construction/Retrofit Installation

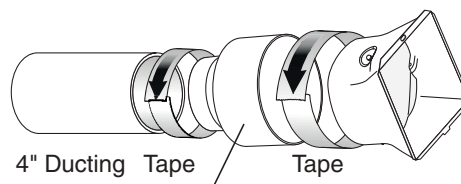
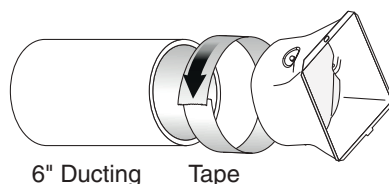
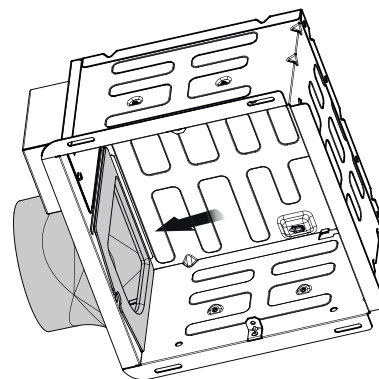
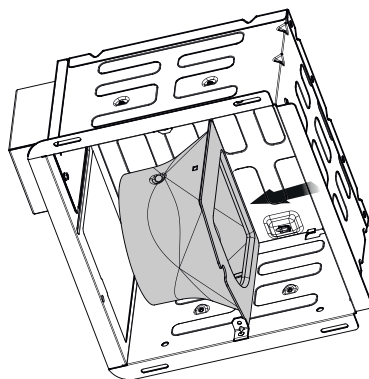
PTE511RK - PTE1115RK



PTEL511RK - PTEL1115RK



6 Insert Duct Connector and Attach Ducting



NOTE: 6" duct connector provided with 110-130-150 Selectable CFM models PTE1115RK and PTEL1115RK.

NOTE: 6" duct connector and 4" reducer provided with 50-80-110 Selectable CFM models PTE511RK and PTEL511RK.