Roomside / Flex™ Series Fan/Light

READ AND SAVE THESE INSTRUCTIONS

⚠🔥⚡ 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. 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.

3. 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.

4. 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.

5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

6. Ducted fans must always be vented to the outdoors.

7. Acceptable for use over a tub or shower when connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit (ceiling installation only).

8. This unit must be grounded.

⚠ CAUTION

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

2. This product can be installed in a wall if mounted 8-ft. or more above the floor.

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.

CLEANING & MAINTENANCE

For quiet and efficient operation, long life, and attractive appearance - lower or remove grille and vacuum interior of unit with the dusting brush attachment.

The motor is permanently lubricated and never needs oiling. If the motor bearings are making excessive or unusual noises, replace the blower assembly (includes motor and impeller).

OPERATION

The fan and light can be operated separately. Use a 2-function wall control.

Flex™ Series Fan/Light ONLY: Do not use a speed control to operate the fan.
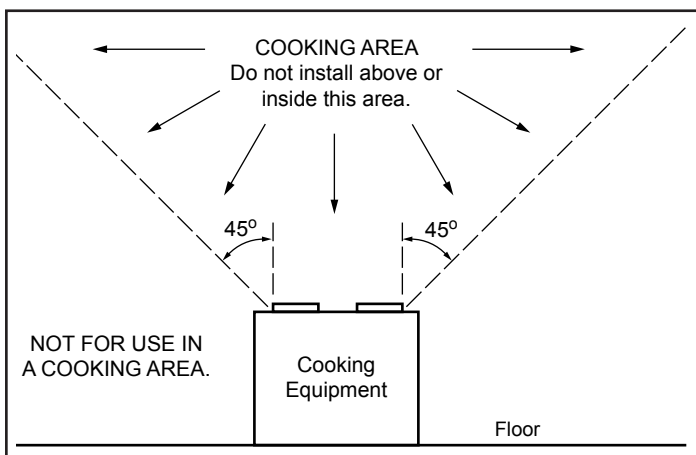

IMPORTANT - The ducting from this fan to the outside of the building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the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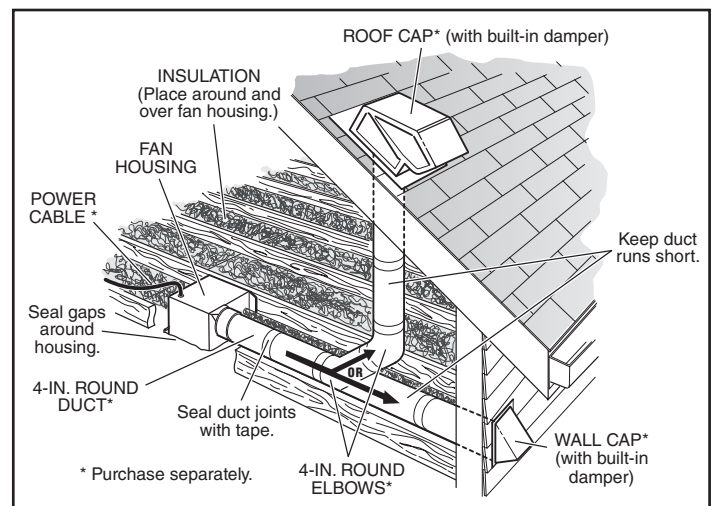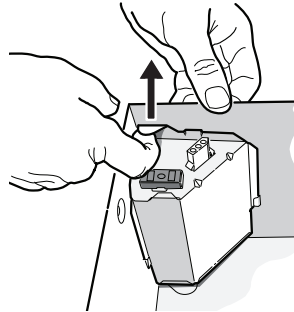

OPTION - To mount housing anywhere between ceiling framing: Use optional Hanger Bar Kit (sold separately from local distributors or website). Follow mounting instructions included with kit.
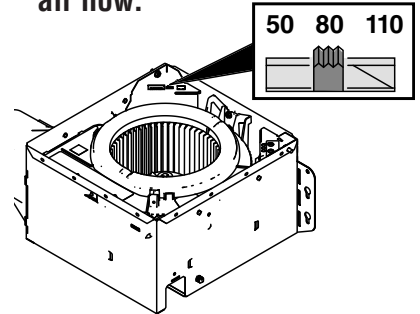
ALL INSTALLATIONS

1 **Remove all packing material, unplug and remove blower from fan housing.**
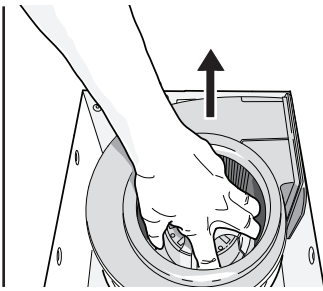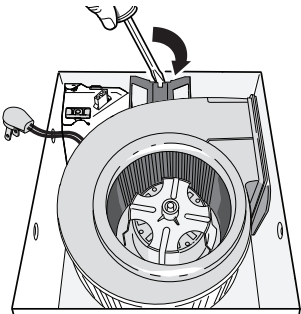
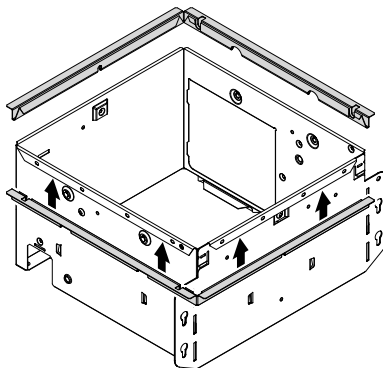**2** **Remove wiring panel from fan housing. (if already installed).**

3 <u>Some models only:</u> **Select 50, 80 or 110 CFM based on your room size and desired air flow.**

50	80	110

4 **Some models only: A pair of flanges may be attached to housing if desired or required.**

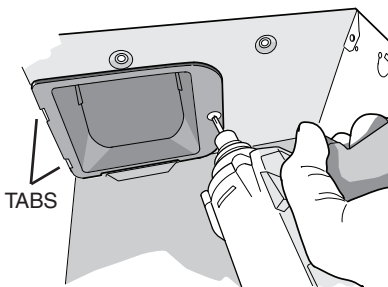Snap both flange pieces under rolled-over edge of housing (all four sides).

For Retrofit Installation - Skip to Page 3.

NEW INSTALLATION

5 **Attach damper/duct connector to fan housing.**

Push connector through opening from inside of housing.

Engage tabs and secure with screw from parts bag.

TABS

**6** **Mount housing to ceiling structure.**

Make sure bottom of housing will be flush with finished ceiling.

For proper location using ½" ceiling material: Bend out housing tabs (on outside of housing) to fit against bottom of joist.

Secure housing through mounting ears with appropriate fasteners. If mounting housing to I-joist, use wood blocking as shown.
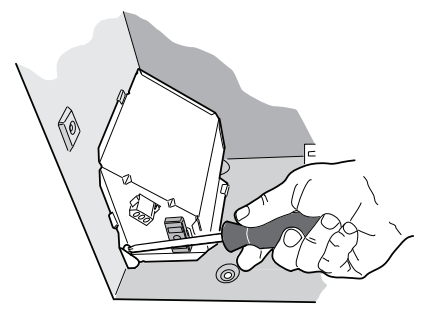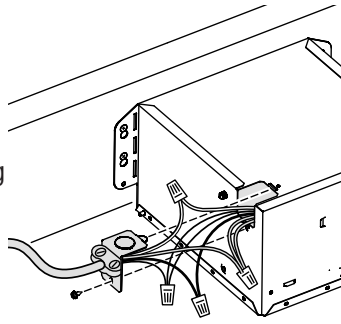
I-JOIST

WOOD BLOCKING

HOUSING TABS
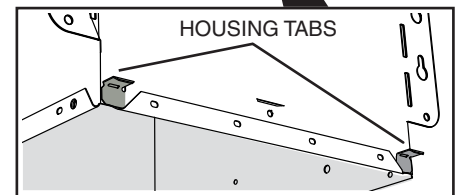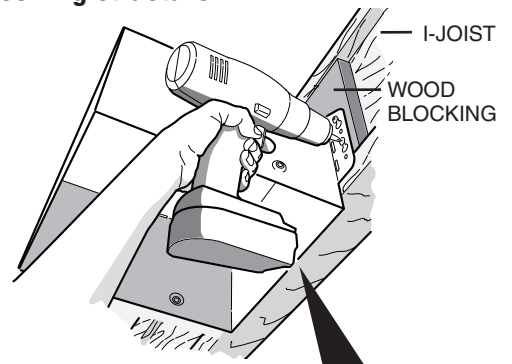
7 Connect 4-in. round duct.
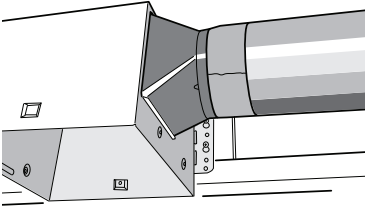
8 Connect wiring.

Connect power cable to wiring plate (from parts bag) using UL approved connector. Connect house wiring to fan wiring. Refer to wiring diagram for connection details. Use screw (from parts bag) to secure wiring plate to fan housing. Re-install wiring panel and secure with screw from parts bag.
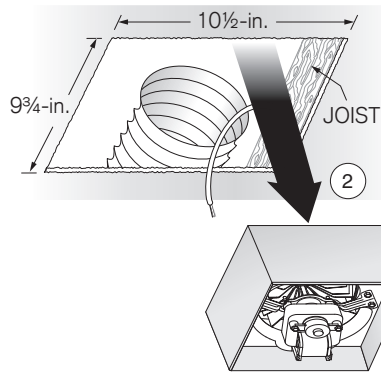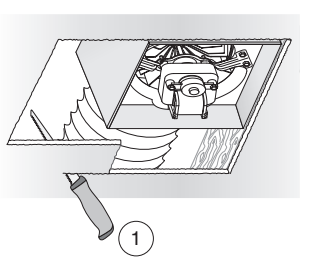
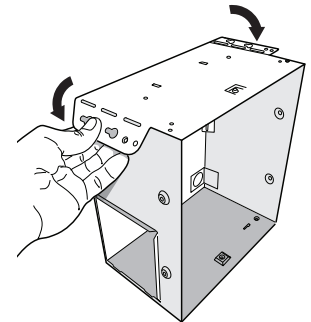**9** Finish ceiling.
Then continue with Step 10.

RETROFIT INSTALLATION

5 Remove old fan and prepare ceiling.

Enlarge ceiling opening (if necessary) to 9¾" parallel to joist) by 10½" (perpendicular to joist). (Some models have a cut-out template on side of carton.)

10½-in.

9¾-in.

JOIST

1

2

6 Fold mounting ears flat against housing.

Existing fan housings are typically attached to the structure:
• with screws, nails, or staples, which must be removed.
• with hangers or rails which are fastened to joists and must be removed along with housing.
A pry bar may be needed to remove the old housing.
Leave ductwork and wiring in place.

7 Connect wiring.

Connect power cable to wiring plate (from parts bag) using UL approved connector. Connect house wiring to fan wiring. Refer to wiring diagram for connection details. Use screw (from parts bag) to secure wiring plate to fan housing. Re-install wiring panel and secure with screw from parts bag.
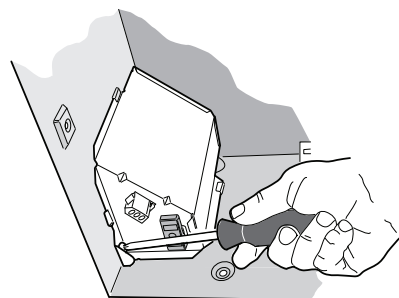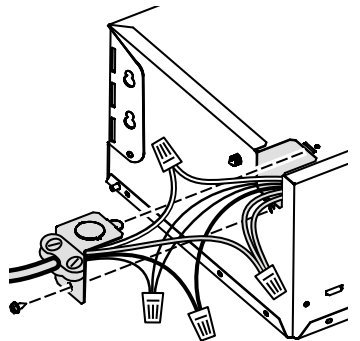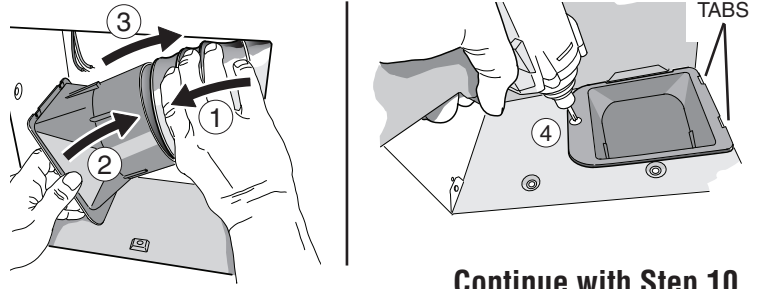
8 Mount fan to ceiling structure.

Mount housing to ceiling structure with appropriate fasteners in locations shown.

3
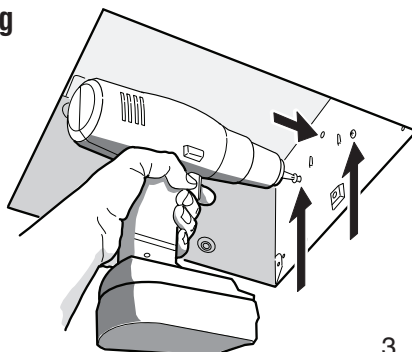
9 **Connect 4-in. round duct.**

① Pull existing ducting through housing discharge opening and ② tape ducting to duct connector. ③ Push connector/ducting back through opening. Engage tabs and ④ secure with screw from parts bag.
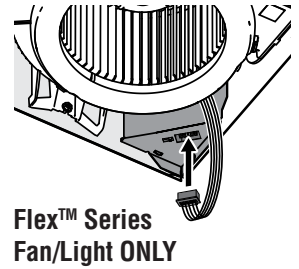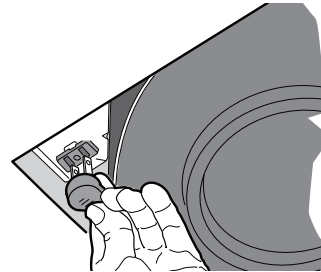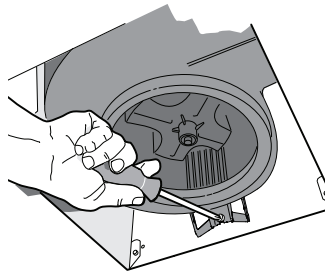
TABS

ALL INSTALLATIONS

10 **Install blower.**

Re-install blower removed in Step 1. Secure blower with 2 screws from parts bag. Plug blower into black receptacle.

**Flex™ Series Fan/Light ONLY:** Plug 5-wire plug into controller module.

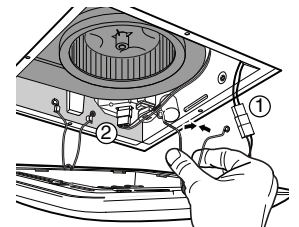**Flex™ Series Fan/Light ONLY**

11 **Install grille.**

LED Fan/Light ONLY:
Snap LED light module into inside of grille. Note: On some models, LED module may already be installed.

Plug in light module. Squeeze grille springs and insert into slots in blower. Push grille up against ceiling.

LED Fan/Light ONLY

Depending upon model - your grille may look different.
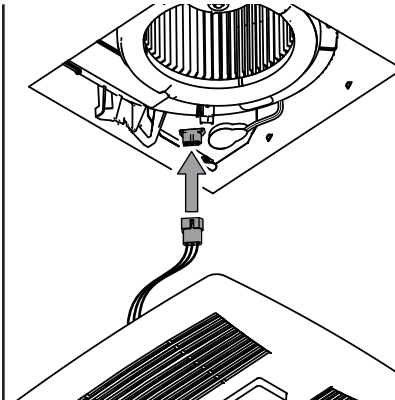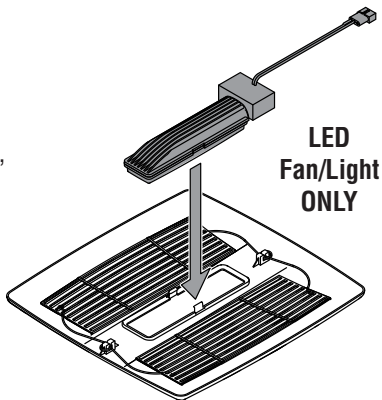
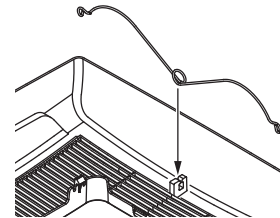**For models 791LEDM and 791LEDNTM ONLY:**

Plug in light ① and LED driver ②.
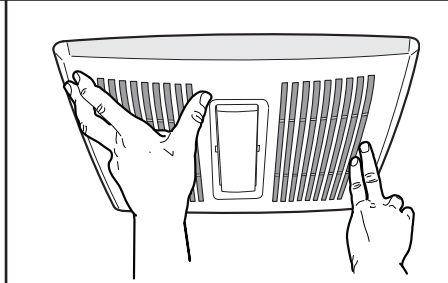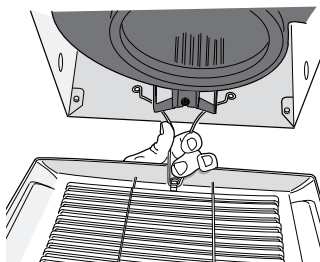
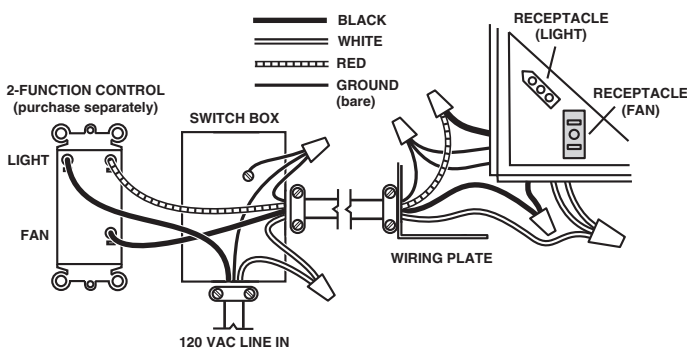If grille spring becomes dislodged from grille - snap it back into place as shown.

WIRING DIAGRAM

——— BLACK
═══ WHITE
••••••••• RED
——— GROUND (bare)

RECEPTACLE (LIGHT)

RECEPTACLE (FAN)

2-FUNCTION CONTROL (purchase separately)

SWITCH BOX

LIGHT

FAN

WIRING PLATE

120 VAC LINE IN

4

1100262F

BROAN NuTone®

EPA EST Broan
90291-WI-01
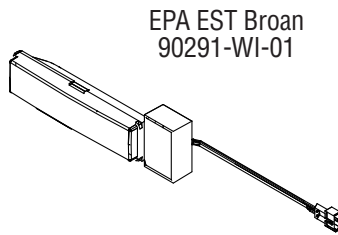
SurfaceShield™ LED Module
Operating Instructions

For installation instructions, refer to the product installation instructions.

READ AND SAVE THESE INSTRUCTIONS

WARNING

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. 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.

3. 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.

CAUTION

1. Please read specification information on product for further information and requirements.

OPERATION

The SurfaceShield LED module comes with two light modes, white light mode and SurfaceShield mode. White light mode is a standard white LED light and the SurfaceShield mode uses an advanced light mode designed by Vyv™.

1. To manually enter SurfaceShield mode: Flip the light switch ON-OFF-ON within 10 seconds.

2. To automatically enter SurfaceShield mode: Leave the white light mode ON, and the SurfaceShield mode will automatically come ON after approximately 1 hour.

3. To enter white light mode: Flip the switch to the ON position. If the light is in SurfaceShield mode, flip the switch OFF-ON to enter white light mode.

Notes:

1. For maximum effectiveness, the LED module shall remain active in SurfaceShield mode at all times (24 hours a day recommended).

2. Surfaces within 5 feet of direct light will be impacted the most from SurfaceShield mode.

3. Once the LED module is in SurfaceShield mode, it will not turn off until the switch is turned OFF.

4. SurfaceShield™ technology with Vyv™ antimicrobial light technology prevents mold, mildew, and bacteria growth.

When it comes to quality home ventilations, Broan-NuTone is the brand you can depend on.