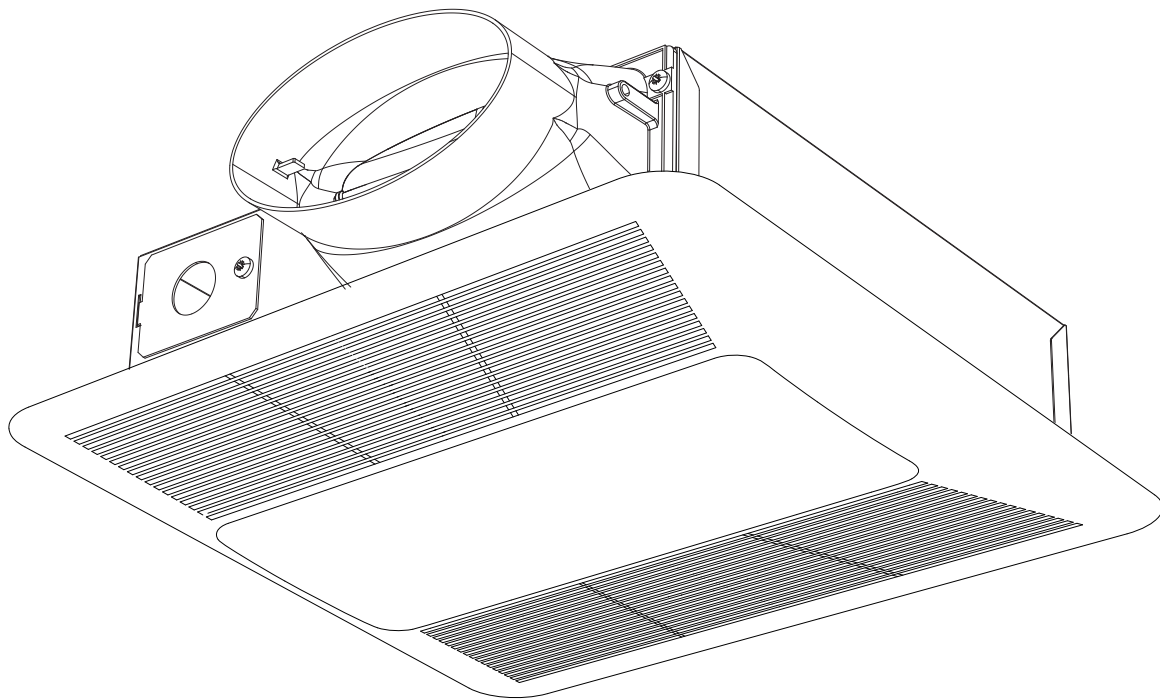ITEM: EF-AZ106MB
EF-AZ106WH
ANZZI EXHAUST FAN
INSTALLATION & OPERATION MANUAL
V1.0
12/18/2023

# DON'T WAIT! REGISTER NOW!

**Register your product within 90 days to ensure your product is recognized as an official purchase and is eligible for warranty coverage.**

**Mail in the completed registry card (Pg. 2) or register online at https://register.anzzihome.com/register/ .**

# ANZZI®

## PRODUCT REGISTRATION∗

IMPORTANT: Warranty will not be recognized unless product is registered.

### We offer two options to register your product.

1. **Register online at** https://register.anzzihome.com/register/ or Scan the QR code below. Registering online is fast, secure, and ensures we receive your information.
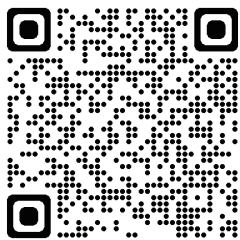
2. **Complete, cut out, and mail the registration card below.** Returning this registration card will ensure your product's warranty and allow us to process any warranty claims.

**Mail the card to: 5701 NW 35 Avenue, Miami, FL 33142**

CUT ALONG DOTTED LINE.

### Product Registration Card

Name...................................................................... Address ...............................................................................................................

City..............................................State......................... Zip.............................

Phone ........................................ Email.............................................................................

Date of Purchase .......................... Order or Purchase # ......................................... SKU or Model # .........................................

Installer's Name ..................................................................Phone ................................................................................

I have read the Owner's Manual carefully and understand and agree that any installation, operation or maintenance of the product must be done strictly in accordance with instructions and guidelines contained in the owner's manual and installation guide.
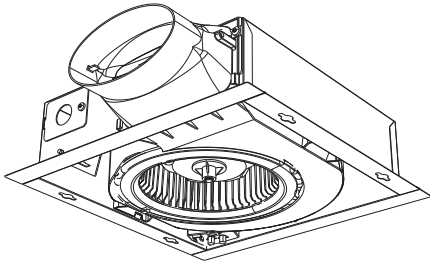
Signature_____Date_____

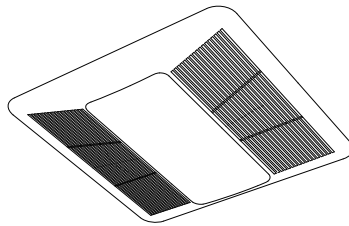**Need help? For technical support call 305-614-4070 or visit us at www.ANZZI.com**
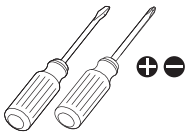
# PRODUCT SIZE CHART

10.25"
[ 260 mm ]

10.25"
[ 260 mm ]

3.38"
[ 85 mm ]

13"
[ 330 mm]

13.75"
[ 349 mm]
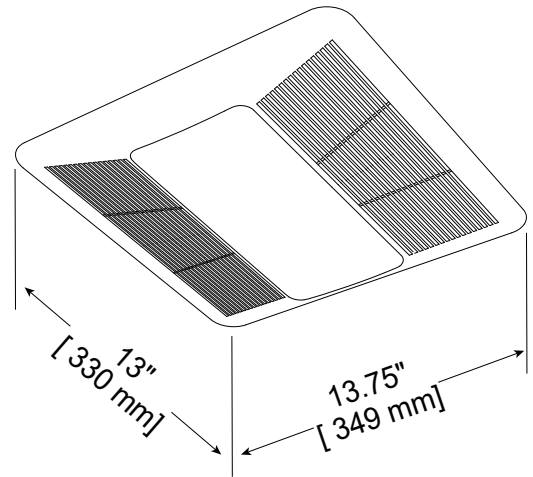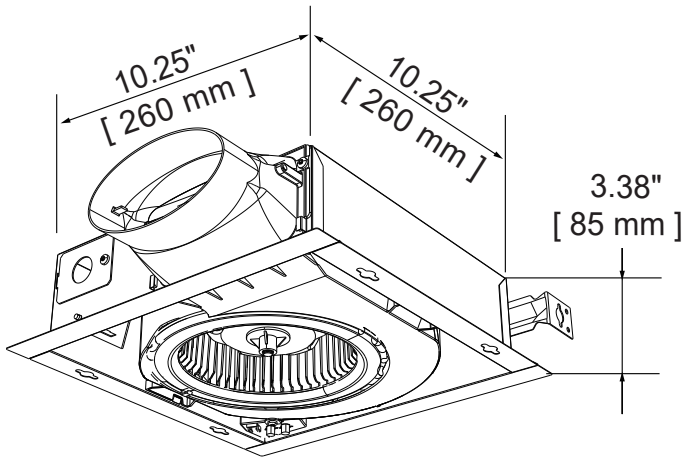
# COMPONENTS

[ 1 ]   [ 2 ]   [ 3 ]   [ 4 ]   [ 5 ]

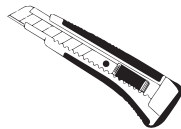| PART | Description | Qty. |
|------|-------------|------|
| 1 | Fan Body | 1 |
| 2 | Grille Assembly | 1 |
| 3 | Bracket | 1 |
| 4 | Long Screws (#8 x 0.98") | 4 |
| 5 | Short Screws (#8 x 0.51") | 2 |

# TOOLS AND MATERIALS

Screwdriver   Jab saw   Utility knife   Gloves   Goggles   Duct tape

Thank you for purchasing an ANZZI Exhaust Fan. Please read and follow the installation and operation instructions carefully, to ensure the long life and reliable operation of this appliance. FAILURE TO DO SO COULD CAUSE PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH. Please keep this manual for future reference.

# SAFETY PRECAUTIONS

## READ AND SAVE THESE INSTRUCTIONS

## ⚠ WARNING

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

● Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

● Before servicing or cleaning unit, switch power off at service panel and lock the switch to prevent power from being switched on accidentally. When the switch cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

● Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

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

● Ducted fans must always be vented to the outdoors.

● 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 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.

● If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.

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

● NEVER place a switch where it can be reached from a tub or shower.

● This unit must be grounded.

## ⚠ CAUTION

● For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors.

● IN USA: INSTALL FAN AT LEAST 7 FEET (2.1M) ABOVE FLOOR. IN CANADA: INSTALL FAN AT LEAST 8.2 FEET (2.5M) ABOVE FLOOR.

● 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.

● To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.

● Not for use in cooking area. (See Fig 1)

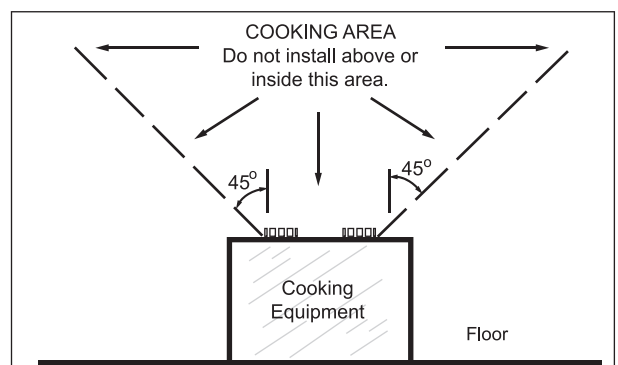● Please read specification label on product for further information and requirements.



Fig 1

# NOTICE

- Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSH Act).
- Always disconnect the power source before working on or near the ventilating fan, motor or junction box.
- Make sure that the electric service supply voltage is AC 120V, 60Hz.
- Protect the power cord from sharp edges, oil, grease, hot surfaces, chemicals or other objects.

- Do not kink the power cord.
- Do not install the unit where ducts are configured as shown in Fig 2.
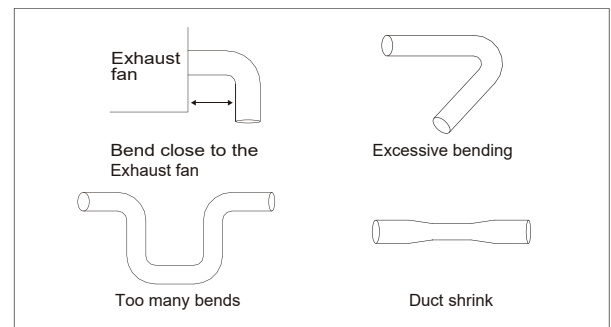


Fig 2

# FEATURES AND SETTINGS

- Turning the " H " adjuster will change the humidity sensing level. When the detected humidity reaches the pre-set level, the fan will be switched to the maximum speed.

- The " S " adjuster controls the suction of air. When the humidity is lower than the sensor setting, the fan will keep working at maximum speed until the pre-set time is up. Then the fan will operate at the speed pre-set by this adjuster.

- The " Toggle switch " will change the time of the fan working at maximum speed after the humidity of room is lower than the pre-set humidity sensing level.
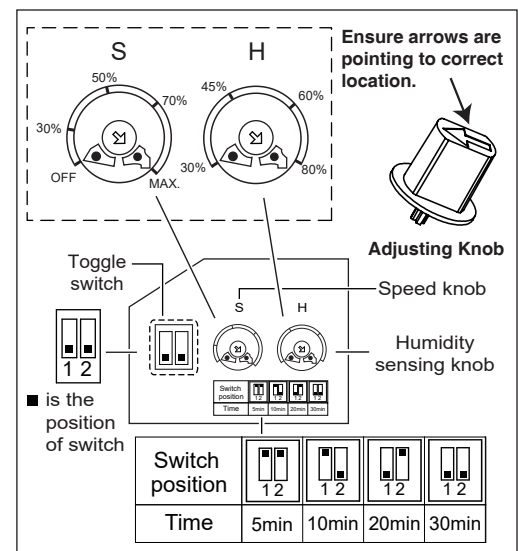


Fig 3

## HUMIDITY SENSING LEVEL

- Install an Adjusting Knob to the "H" adjuster with the arrow on it pointing to 80% to adjust the humidity sensing level.

- The humidity sensing level is pre-set at 80%. When the detected humidity reaches the pre-set level, the fan will be switched to the maximum speed.

## SPEED ADJUSTMENT

- Install an Adjusting Knob to the " S " adjuster with the arrow on it pointing to Max to adjust the CFM of the air suction when the maximum speed time of the fan is up. If the adjuster is turned to the "OFF" setting, the fan will stop working after the time set for on maximum speed is up.

## TOGGLE SWITCH

- There are two toggles on the toggle switch. Adjust the toggles as shown in fig 3 to adjust the delay time. The timer is pre-set to 30 minutes. When the humidity is lower than the sensor setting, the fan will maintain its maximum speed until the pre-set time is up.

# FEATURES AND SETTINGS

## ⚠ **CAUTION**

**When installing Humidity and Speed Knobs, make sure the arrows are pointing to the correct location as picture shows in Fig 3.**

# INSTALLATION GUIDELINE

## ⚠ **CAUTION**

1. Install this fan in a GFCI protected branch circuit.

2. Check area above installation location to be sure that wiring can run to the planned location and that ductwork can be run. Make sure the area is sufficient for proper ventilation.

3. Inspect duct work and wiring before proceeding with installation.
   Note: Not all parts necessary for the installation of your exhaust fan are included. However, most are available at your local home improvement or hardware store.

4. Make sure there is adequate space for installation with 10.25" x 10.25" (duct direction) x 3.38" (Height).

5. Install proper insulation around the fan to minimize building heat loss and gain. 4" circular duct is needed for installation. The ducting from this fan to the outside of the duilding 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 air flow.

6. Use a roof cap or wall cap that has a built-in damper to reduce backdrafts.
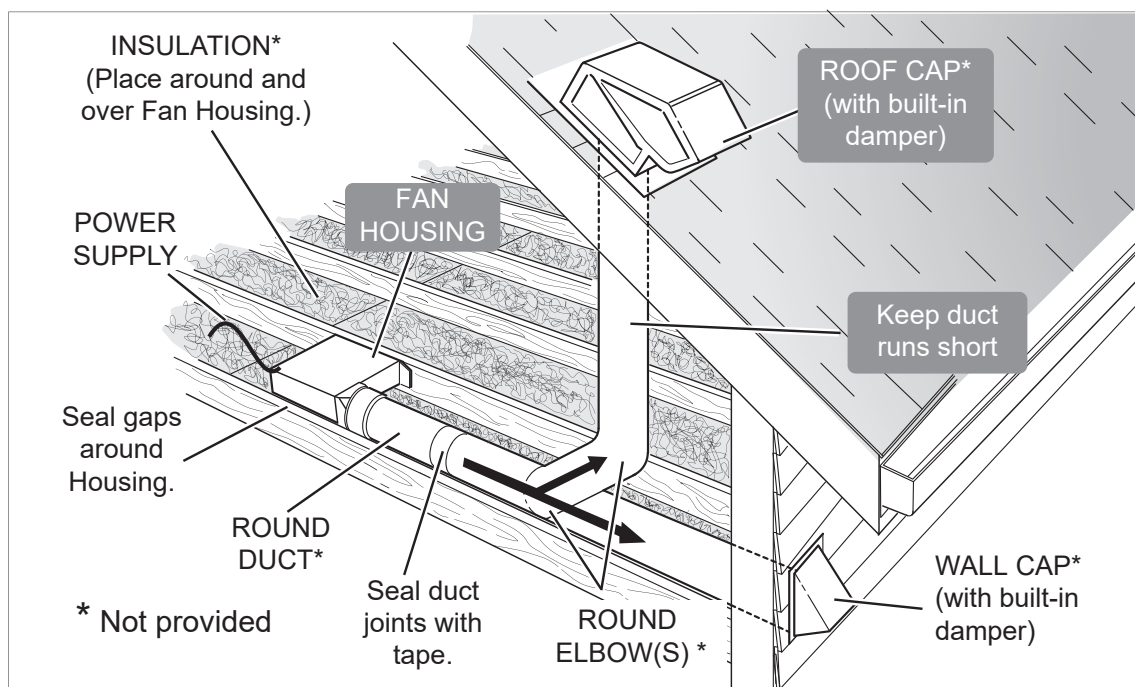
# INSTALLATION EXAMPLE



Fig 4

# INSTALLATION

## ⚠ CAUTION

Shut down power supply at breaker box before starting installation.

## NOTICE

- You may need the help of a second person to install this fan – one person on the attic side and one on the room side.

- Be careful to cut hole to the correct size. If hole is too big, the fan grille will not hide it.

- Installing the fan body in an existing building requires an accessible area ( attic or crawl space ) above or behind the planned installation location and existing duct and wiring.

- Make sure there is space with 10.25" (duct direction) x 10.25" x 3.38" (Height).

- This fan can be installed to 10.5" - 21" between the joist or to I-joists, standard joists and truss construction.

## Step 1 - There are multiple ways to install the fan. Choose the suitable one to follow below.

### MOUNTING THE FAN TO THE JOIST, "I" JOIST OR TRUSS DIRECTLY

1. Position and hold the Fan Body [ 1 ] to the joist (truss or framing). Make sure the flange of housing is flush to the surface of joist.

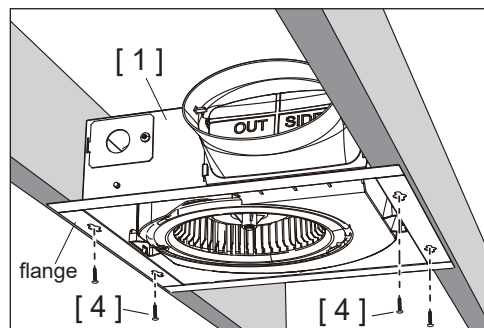2. Secure the flanges with Long Screws [ 5 ] as figure shows. (Fig 5)



Fig 5

### MOUNTING THE FAN TO THE JOIST, "I" JOIST OR TRUSS WITH BRACKETS

1. Insert Bracket [ 3 ] to the slot at the counter side of duct as figure shows. (Fig 6)

2. Position and hold the Fan Body [ 1 ] to the joist (truss or framing) as figure shows. Make sure the flange of housing is flush to the surface of joist. (Fig 6)

3. Secure the flange which is flush to the joist with Long Screws [ 4 ] as figure shows. (Fig 6)



Fig 6

4. Secure the Bracket [ 3 ] to joist with one Long Screw [ 4 ]. (Fig 6)

5. Install one Short Screw [ 5 ] to the hole of the Bracket [ 3 ] and secure. The hole should be close to the center of the slot. (Fig 6)
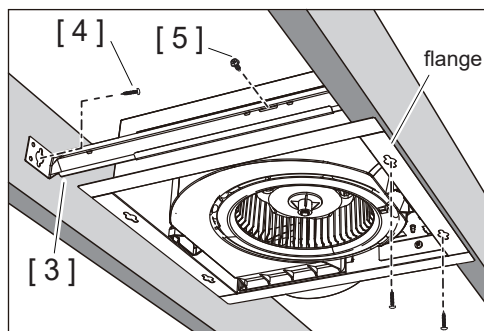
Notice: For securing the flange of Fan Body [ 1 ] to the other side, insert Bracket [ 3 ] to the slot from the counter side and secure it.

# INSTALLATION

## MOUNTING THE FAN TO THE WALL

1.  Insert Bracket [ 3 ] to the slot at the counter side of duct as figure shows. (Fig 7)

2.  Position and hold the Fan Body [ 1 ] to the stud as figure shows. Make sure the flange of housing is flush to the surface of stud. Make sure the duct connector is facing upward. (Fig 7)

3.  Secure the flange which is flush to the stud with Long Screws [ 4 ] as figure shows. (Fig 7)

4.  Secure the Bracket [ 3 ] to stud with one Long Screw [ 4 ]. (Fig 7)

5.  Install one Short Screw [ 5 ] to the hole of the Bracket [ 3 ] and secure. The hole should be close to the center of the slot. (Fig 7)

Notice: For securing the flange of Fan Body [ 1 ] to the other side, insert Bracket [ 3 ] to the slot from the counter side and secure it.
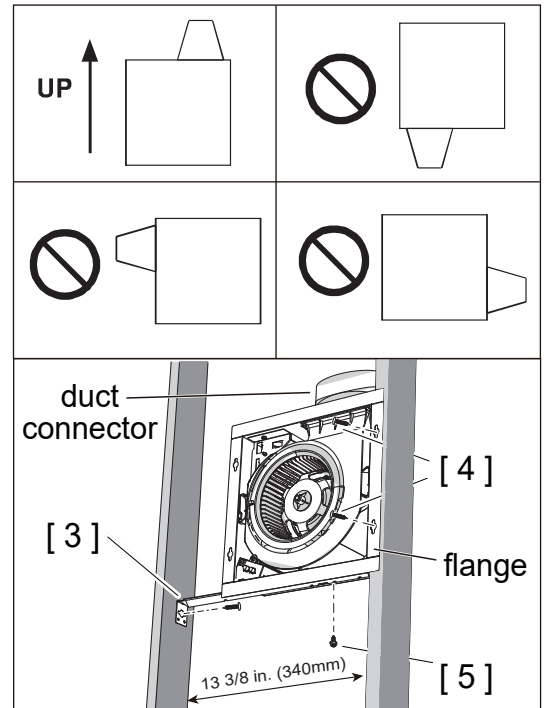


Fig 7

## Step 2

1.  Make sure the damper is at the right place and can flip freely. Connect the 4" round ductwork (not provided) to the duct connector, and run the ductwork to a roof or wall cap (not provided).

2.  Using tape (not included), secure all the ductwork connections so that they are air tight.

Note: 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 air flow.
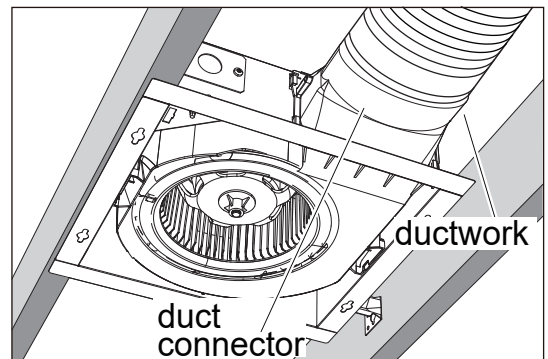


Fig 8

# INSTALLATION

## Step 3

Run 120 VAC house wiring to the location of the fan. Use only UL-approved Wire Nut (Not provided) to attach the house wiring to the wiring plate. Refer to the wiring diagram, and connect the wires as shown.
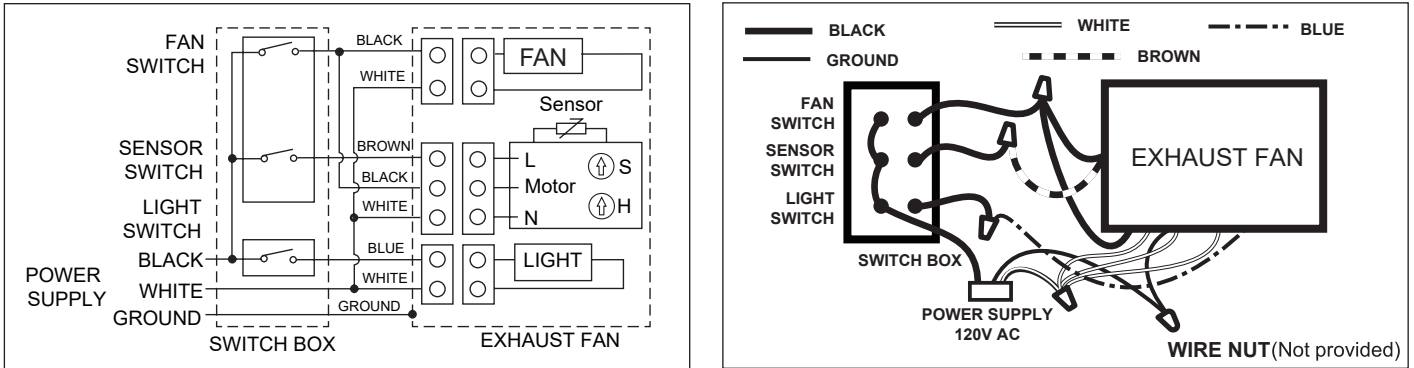


Fig 9

## Step 4

1.  Install ceiling material to complete the ceiling construction. Then, cut around the fan housing.

2.  Remove dust from the Fan Body [ 1 ] with a vacuum cleaner. Do not use abrasive cloths, steel wool pads, or scouring powders. Never use solvents, thinner or harsh chemicals when cleaning the fan.

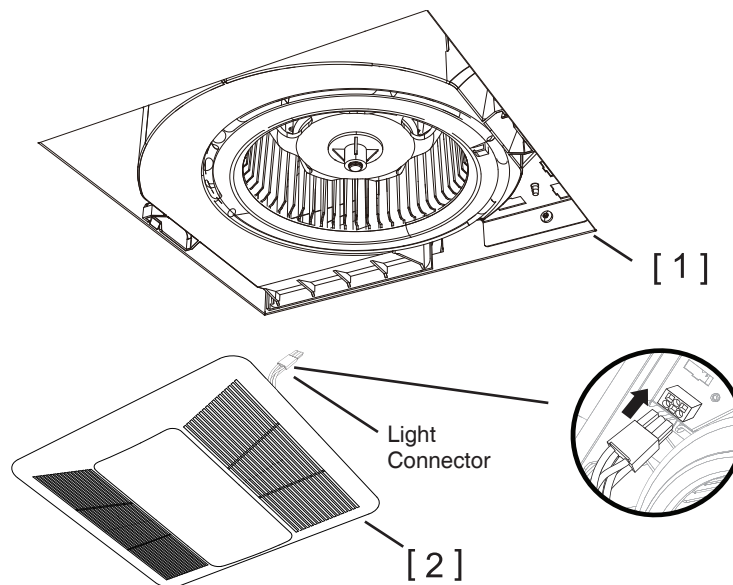3.  Plug the Light Connector into the receptacle of the Fan Body [ 1 ].



Fig 10

# INSTALLATION

## Step 5

1.  Pinch the Springs of Grille Assembly [ 2 ] on the sides and insert the Springs into the narrow rectangular Slots in Fan Body [ 1 ]. Then, push the Grille Assembly [ 2 ] towards the ceiling to secure.
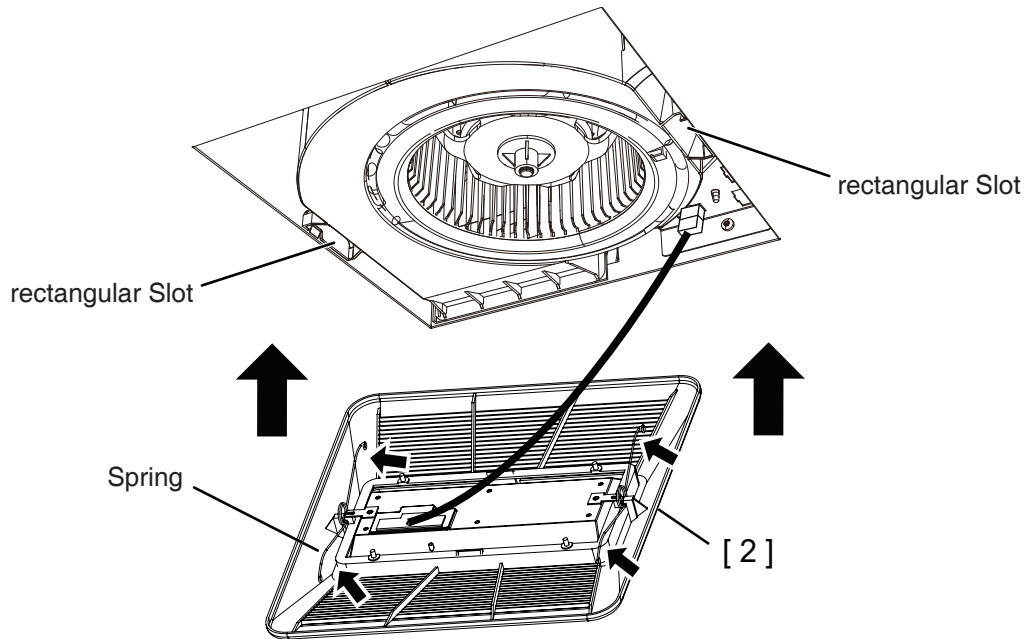
rectangular Slot

rectangular Slot

Spring

[ 2 ]

Fig 11

# OPERATING INSTRUCTIONS

## ⚠ **WARNING**

This EXHAUST FAN must be properly installed before it is used.

1.  Turn on the Light Switch to turn on the LED light.

2.  Turn on the Sensor Switch to start the fan. The fan will operate under pre-set speed. When the humidity of the room reaches the pre-set humidity level, the fan will switch to the maximum speed to exhaust the air.

3.  When the fan isn't working at the maximum speed, turn on the Fan Switch to adjust the fan to the maximum speed to exhaust the air continously. Turn off the Fan Switch so that the fan goes back to the humidity sensor controlled mode.
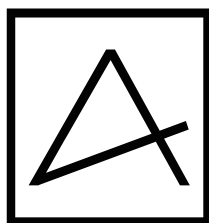
# CLEANING AND MAINTENANCE

## ⚠ **WARNING**

Always disconnect the power source before working on the ventilating fan.

1.  Pull down the Grille Assembly [ 2 ] and squeeze springs to pull it out from the Fan Body [ 1 ]. Unplug the Grille Assembly [ 2 ] from Fan Body [ 1 ].

2.  Remove dust and dirt from the Fan Body [ 1 ] with a vacuum cleaner. Do not use abrasive cloths, steel wool pads, or scouring powders. Never use solvents, thinners or harsh chemicals when cleaning the fan.

3.  Plug the Grille Assembly [ 2 ]  back  into the receptacle of the Fan Body [ 1 ]. Install the Grille Assembly [ 2 ] back to the Fan Body [ 1 ].

# TROUBLE SHOOTING

| SYMPTOMS | POSSIBLE CAUSE | RECOMMENDED ACTIONS |
| --- | --- | --- |
| The fan is not turning on | 1. Power off<br>2. Faulty switch<br>3. Faulty wire connection | 1. Make sure power supply is on.<br>2. Test or replace switch.<br>3. Check wire in switch box. |
| The fan seems louder than it should | 1. CFM rating is too high for room<br>2. Damper not working properly or damaged<br>3. Bend in duct too close to fan discharge<br>4. Fan discharge reduced to fit smaller duct<br>5. Fan body not securely attached | 1. Be sure the CFM rating on the fan matches the size of your room.<br>2. Check damper to ensure it is opening and closing properly. If the damper has become damaged, please call Customer Service.<br>3. Be sure you do not have any sharp bends in duct closer than 18 in. to the fan discharge.<br>4. Use recommended size ducting to reduce fan noise.<br>5. Be sure the fan is securely attached to your ceiling joists. |
| The fan is not clearing the room | 1. Insufficient intake airflow within room<br>2. Insufficient CFM | 1. Be sure a door or window is slightly ajar or opened to allow airflow. The fan is not able to draw air out of the room without enough airflow to draw in from.<br>2. Be sure the CFM rating on the fan matches the requirements for your room size. |