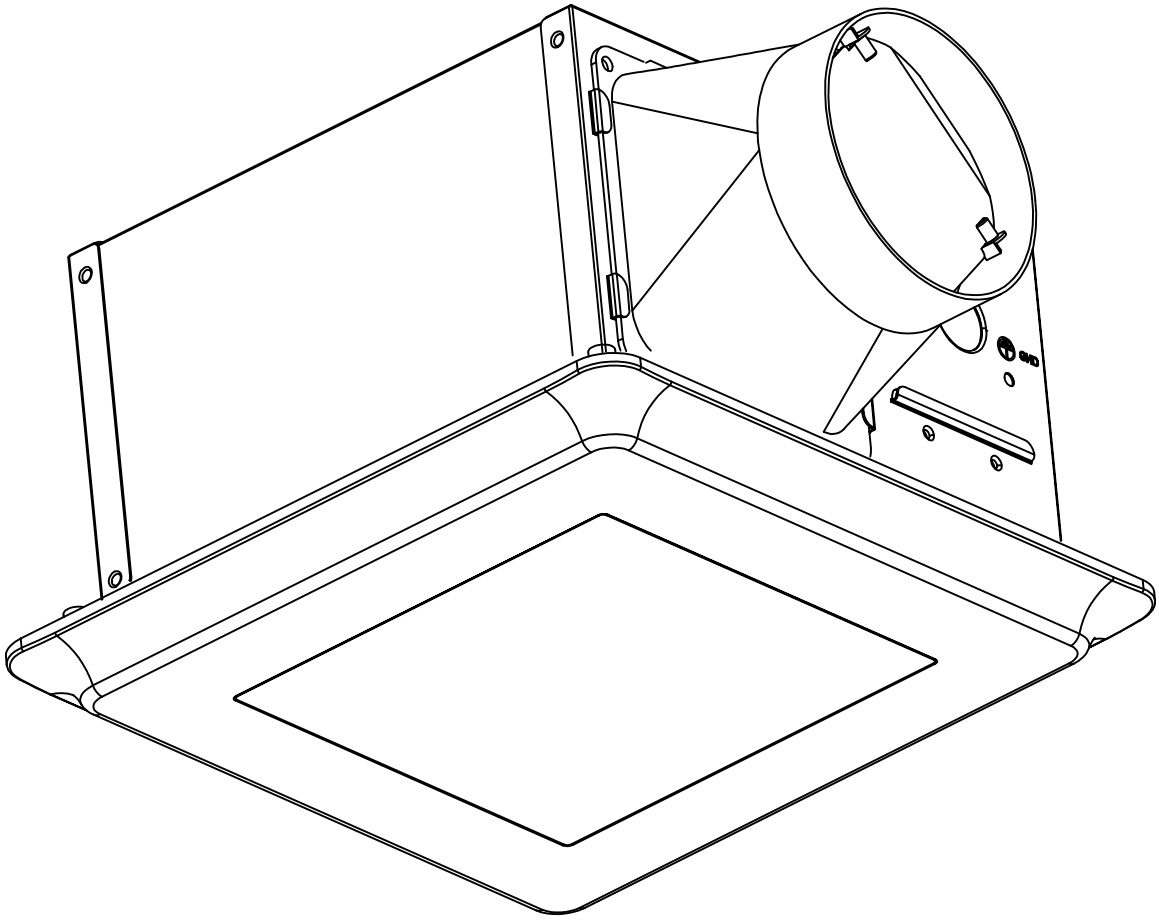
Luvoni
by Maxxima

INSTALLATION AND CARE GUIDE

Ventilation Fan with LED Light

MEW-VF2100L

READ AND SAVE THESE INSTRUCTIONS



Please read these instructions carefully before installing, operating or servicing the fan. Failure to comply with the instructions contained herein could result in personal injury or property damage. We recommend that you keep this guide for future reference.

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Safety Information

PLEASE READ AND UNDERSTAND THIS ENTIRE MANUAL BEFORE ATTEMPTING TO ASSEMBLE, OPERATE OR INSTALL THE PRODUCT.

1. **Always disconnect the power supply prior to servicing the fan, motor or junction box.**
2. **Follow all local building, safety and electrical codes as well as NEC (National Electrical Code) and OSHA (Occupational Safety and Health Act).**
3. **Use 120v, 60Hz for the electrical supply and properly ground the unit.**
4. **This ventilation product is approved for use over a bathtub or shower when installed in a GFCI protected branch circuit.**
5. **Product is meant for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.**
6. **Not for use in kitchens.**
7. **To reduce the risk of injury to persons, install fan at least 7 feet (2.1m) above the floor.**
8. **To reduce the risk of fire or electric shock, do not block air entry grill.**
9. **Suitable for damp locations only.**
10. **For use in non-fire rated installations only.**
11. **For use in one and two family dwellings only.**

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:
Use this unit in the manner intended by the manufacturer. If you have any questions. Please call customer service.

WARNING: 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.

WARNING: 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.

WARNING: 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 local code authorities.

WARNING: When cutting the ceiling, do not damage electrical wiring and other hidden utilities.

WARNING: Ducted fans must always be vented to the outdoors.

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

CAUTION: Not for use in cooking areas.

CAUTION: To reduce the risk of injury to persons, install the fan at least 7.0 ft. (2.1 m) above the foor.

Warranty

Three Year Warranty:

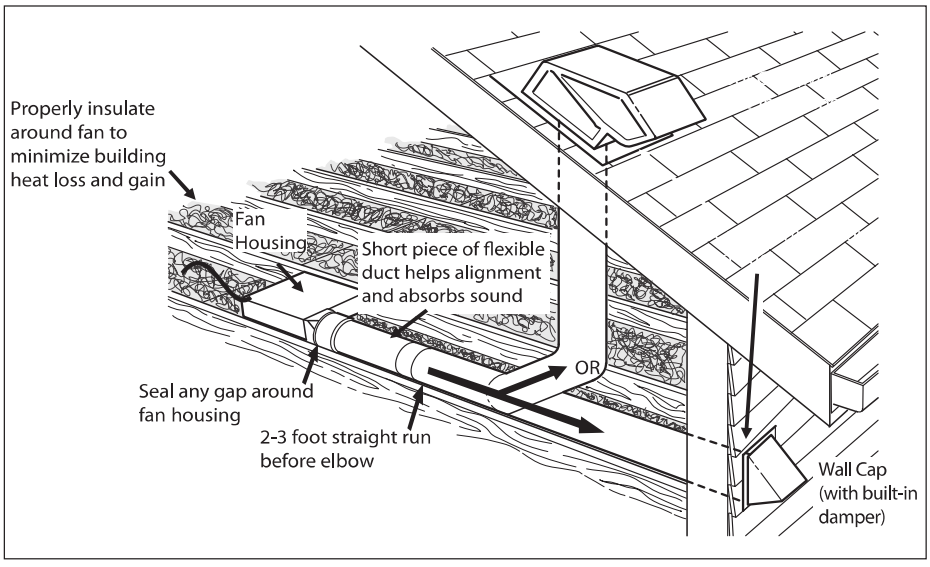
Maxxima extends a 3-year limited warranty to the original purchase that the products listed are free from defects in material and/or workmanship only. Maxxima will replace any warrantied product to the original consumer/purchaser if the product fails because of defects due to workmanship and/or materials within the limited warranty period. Limited warranty is not transferable and applies to the original installation of the Maxxima product. This offer does not constitute in any way a product guarantee and Maxxima does not hereby assume any obligation whatsoever beyond sending a free replacement product.

Product Specifications

Specifications	
Air flow: 100 CFM	Fan Power Consumption: 27 W ; Light Power Consumption: 15 W
Voltage Rated: 120 V, 60 Hz	Sound Output: 0.5 Sone
Duct Diameter: 4 in.	Ceiling Opening Dimensions Requirements: 9.45 in. (L) x 9.45 in. (W) x 5.9 in. (H)
Lumen Output: 1000 lumens	LED Light Color (CCT): 2700K, 3000K, 3500K, 4000K, 5000K

Typical Installation

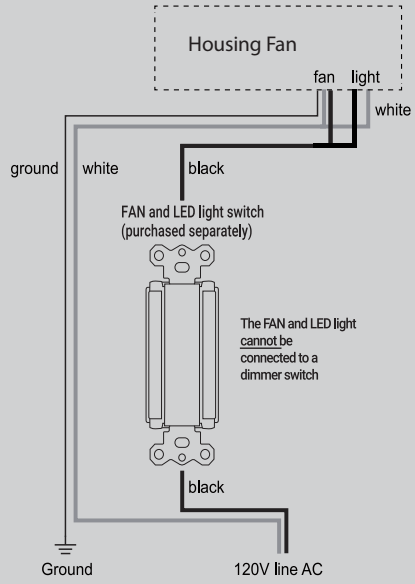
The ducting route from the fan to the outside of the building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for the best performance, and avoid installing the fan with smaller ducts than recommended (4 in.). Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.



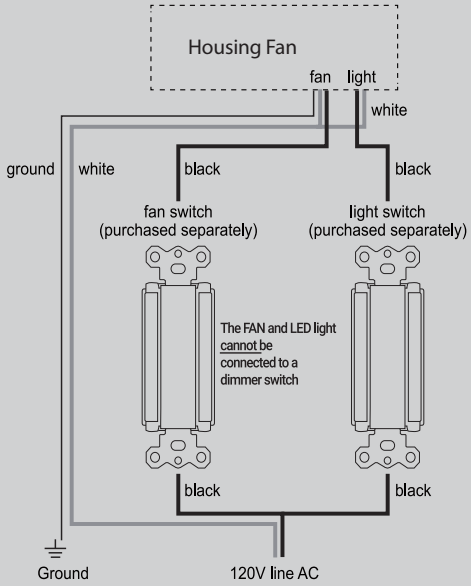
Pre-Installation

Wiring Diagrams

Unified Control of the Light and Exhaust



Separate Control of the Light and Exhaust



WARNING:

Wiring must comply with all applicable electrical codes. Turn OFF power before removing or installing connectors

WARNING:

COPPER TO COPPER ONLY. Do not use Aluminum wire.

Planning Installation

Before beginning installation of the product, make sure all parts are present. Compare parts with the package contents list and hardware contents. If any part is missing or damaged, do not attempt to install the product.

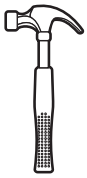
WARNING: Turn off electricity at breaker box before beginning installation.

NOTE: Installation may vary depending on how the previous bath fan was installed. Supplies necessary for the installation of your bath fan are not all included. However, most are available at your local home improvement or hardware store.

1. Carefully remove the unit from the carton.
2. Check the area above the installation location to be sure that the wiring can reach the planned location where the duct work will be routed and that the area is sufficient for proper ventilation.
3. Inspect duct work and wiring before proceeding with installation.
4. Before installation, provide inspection and future maintenance access at a location that will not interfere with installation work.

Pre-Installation (continued)

Tools Required


Claw hammer

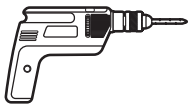

Phillips screwdriver


Flat screwdriver


Utility knife

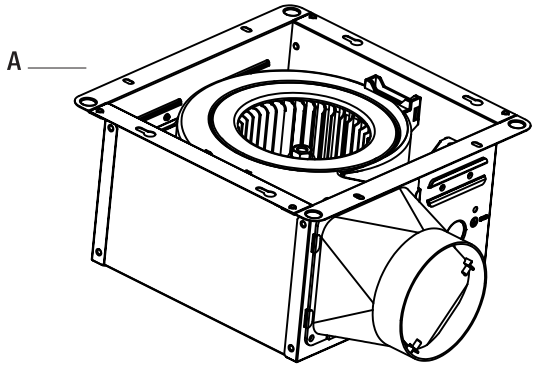

Safety glasses


Drill bits

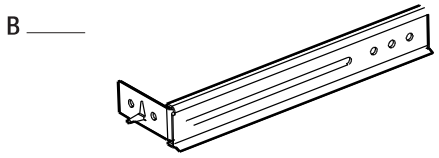

Power drill

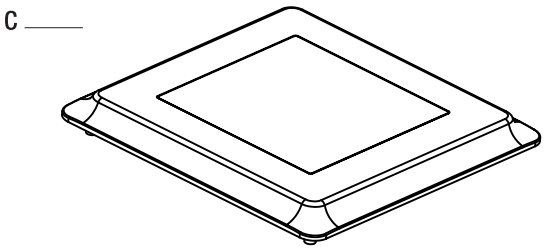

Duct tape

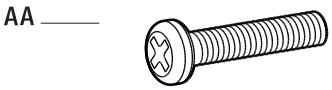
Package Contents

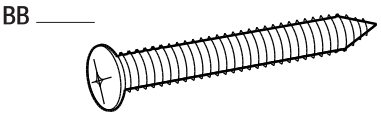


Part	Description	Quantity
A	Fan housing	1
B	Installation bracket	3
C	LED Grill	1
AA	Short screws (5/32 x 10mm)	6
BB	Long wood screws (ST4 x 30mm)	8
CC	Screw-on Wire Connector (P3)	6







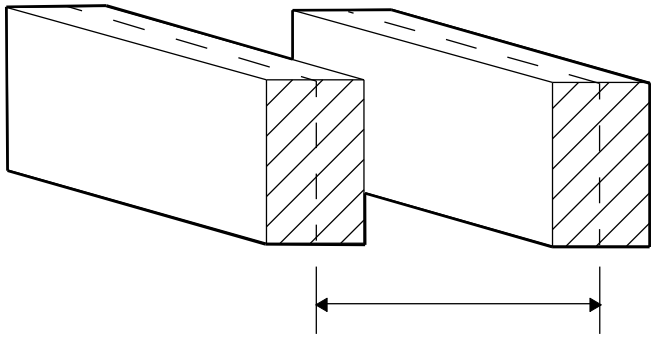




Installation - New Construction

1 Determine Joist Width

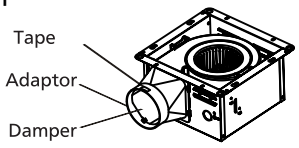
- ☐ Measure the distance from the center of the two ceiling joists where you will be installing the ventilation fan as shown.
- ☐ Use the table below to determine the header bar installation.
  - ☐ For configuration 1, proceed to step 2.
  - ☐ For configuration 2, proceed to step 3.
  - ☐ For configuration 3, proceed to step 4.



Use the following to determine the proper installation configuration.

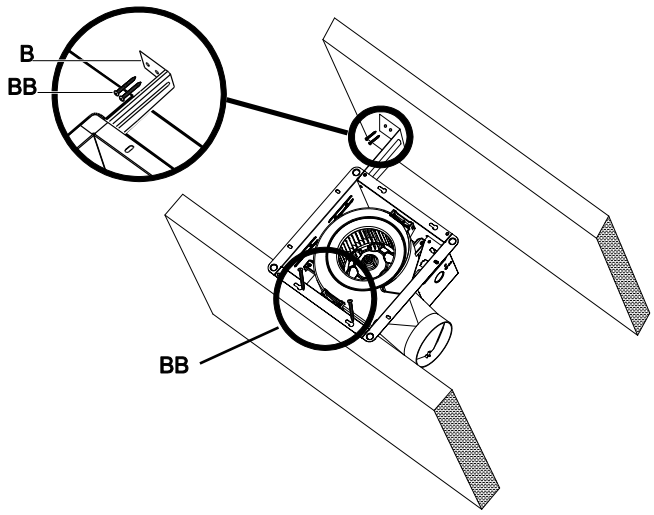
Width between the Joists	Brackets Used	Configuration
12 in.	1	1
16 in.	2	2
19.2 in.	3	3

IMPORTANT:
Please remove the tape, which protects the damper during shipping and installation, from the duct adaptor as shown below



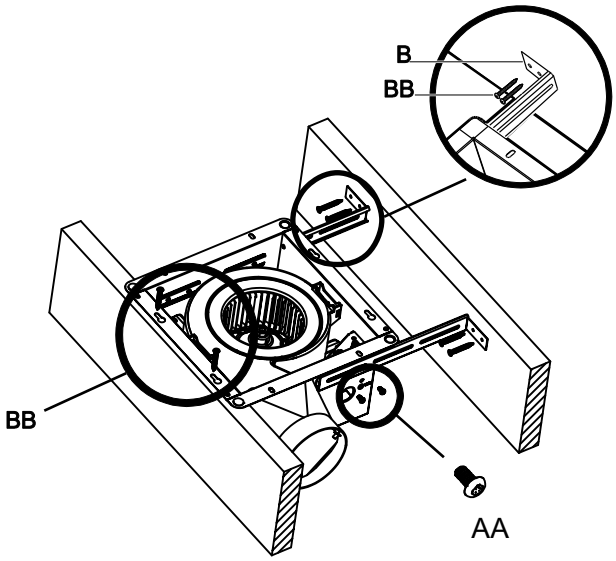
2 Configuration 1, Initial Install

- ☐ Use the long wood screws (BB) to loosely attach the main body of the fan (A) to the ceiling joists in the two locations shown.
- ☐ Fit one bracket (B) into the groove against the main body of the fan, ensuring the bracket is snug against the opposite ceiling joist.
- ☐ Use two long wood screws (BB) to loosely attach bracket to the opposite ceiling joist as shown.
- ☐ Use two short screws (AA) to loosely attach the bracket to the fan body.
- ☐ Proceed to step 5.



3 Configuration 2, Initial Install

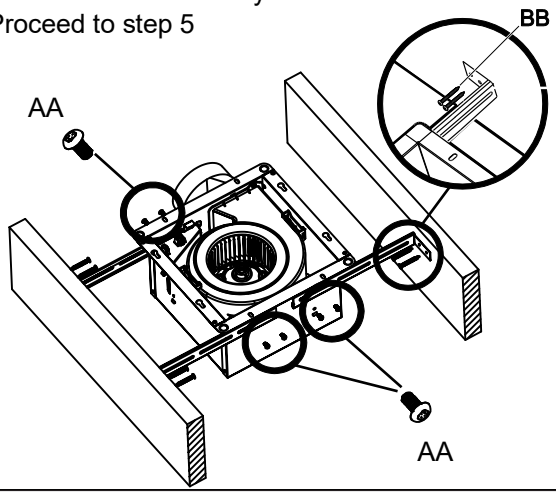
- ☐ Use the long wood screws (BB) to loosely attach the main body of the fan (A) to the ceiling joist in the two locations shown.
- ☐ Fit two brackets (B) into the groove against the main body of the fan, ensuring the brackets are snug against the opposite ceiling joist.
- ☐ Use four long wood screws to loosely attach the brackets to the opposite ceiling joist as shown.
- ☐ Use four short screws (AA) to loosely attach brackets to the fan body.
- ☐ Proceed to step 5



Installation - New Construction (continued)

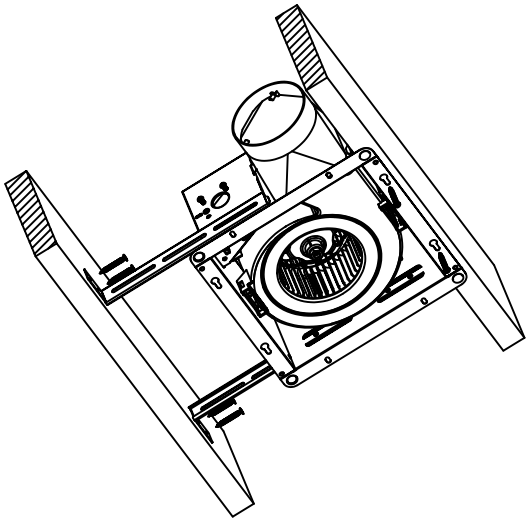
4 Configuration 3, Initial Install

- □ Use two brackets (B) and fit them into the grooves against the main body of the fan (A). Ensure they are snug with the same joist before loosely attaching them to the joist using long wood screws (BB) as shown.
- □ Fit the last of the three brackets into the last groove on the fan, ensuring it is snug against the opposite ceiling joist.
- □ Use long wood screws to loosely attach the bracket to the opposite ceiling joist as shown.
- □ Use short screws (AA) to loosely attach all three brackets to the fan body as shown.
- □ Proceed to step 5



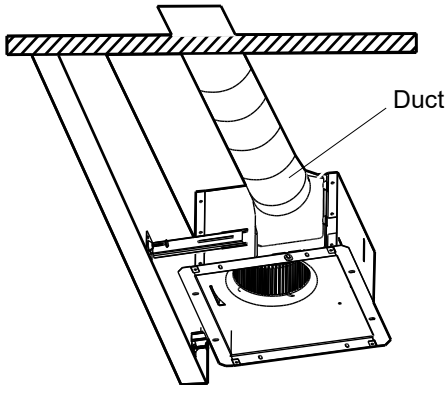
5 Final Installation

- □ Ensure the main body (A) is level.
- □ Ensure the flange on the main body is flush with the ceiling joist
- □ Firmly secure all screws on the main body and any installed brackets.
- □ Use long wood screws (BB) to firmly secure the main body flange to the bottom of the joist as shown.



6 Connect Duct

- □ Install a 4 in circular duct (not supplied) to outlet and secure it with a UL-rated HVAC tape (not supplied) or a clamp (not supplied).
- □ For horizontal only installation, install the duct with a slight downward slope toward the exterior vent, and avoid any low spots or sags where water/condensation could collect.
- □ Turn the impeller gently by hand. Check the fan for any abnormal sound or vibration.



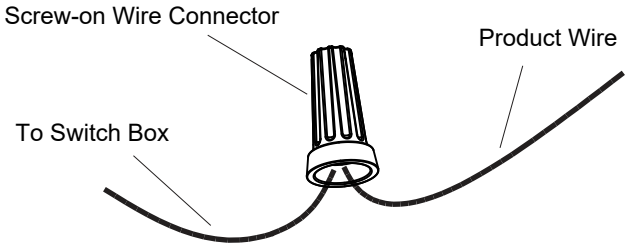
Installation - New Construction (continued)

7 Using Screw-on Wire Connector

WARNING: Wiring must comply with all applicable electrical codes. Turn OFF power before removing or installing connectors.

WARNING: COPPER TO COPPER ONLY. Do not use on Aluminum wire.

- □ If needed, strip the wire so part of the bare wire is showing.
- □ Grip the wire firmly and push the wire into the screw-on wire connector (CC) and tighten.
- □ Verify the stripped end of the wire is fully inserted to the wire nut.



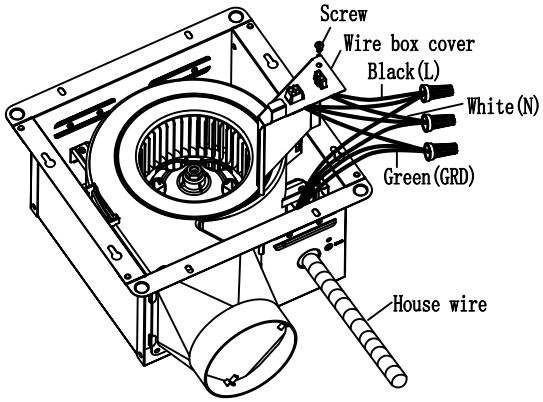
WARNING: Failure to wire product correctly could result in electrical shock, fire hazards, or damage to the product. Consult a licensed electrician if you are unsure of your ability to correctly install wiring.

8 Connect The Wiring

WARNING: Follow all local electrical and safety codes.

CAUTION: Never place a switch where it can be reached from a tub or shower.

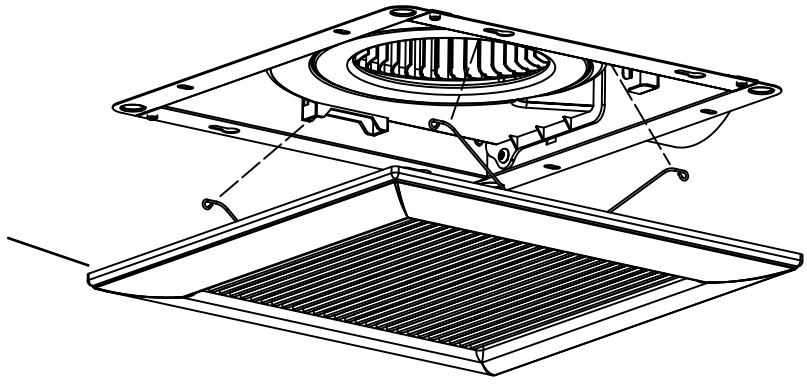
- □ Remove the wiring box cover from the fan housing (A).
- □ Pull the supply wires through the hole in the fan housing.
- □ Using the screw-on wire connectors (CC), connect the supply wiring from the wall switch to the fan housing.
- □ Please refer to the wiring diagrams on page 4 to ensure proper wire connections are made.
- □ Carefully push the wire connections into the wiring box housing and reattach the wiring box cover.



CAUTION: If your supply wires do not match these colors, determine what each supply wire represents before connecting. You may need to consult a licensed electrician to determine this safely.

9 Attach the LED Grill

- □ Select desired LED color temperature using the CCT selection switch on the back of the grill (C).
- □ Connect the LED wire to the plug found in the fan housing.
- □ Squeeze springs together and insert into the main body of the fan housing as shown.
- □ Check that the installation is secure and that the LED grill won't fall.



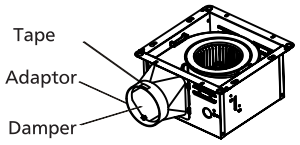
Installation - Existing Construction

1 Remove the Existing Fan

CAUTION: Make sure power is switched off at service panel before starting installation.

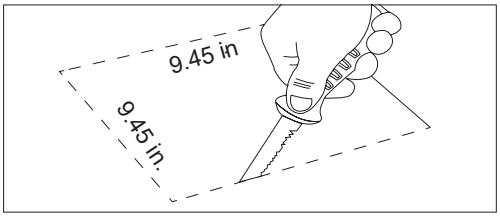
- □ Remove the old fan from the ceiling.
- □ Leave ductwork and wiring in place.

IMPORTANT:
Please remove the tape, which protects the damper during shipping and installation, from the duct adaptor as shown below.



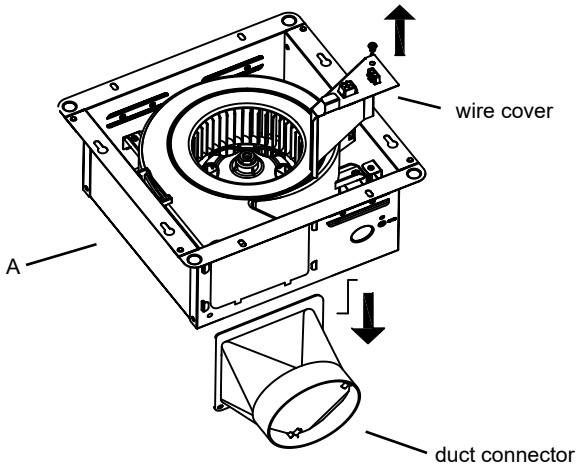
2 Measure/Enlarge Ceiling Opening

- □ Measure the ceiling opening and if needed enlarge the ceiling hole to the dimensions 9.45 in. by 9.45 in. for the new fan housing (A).



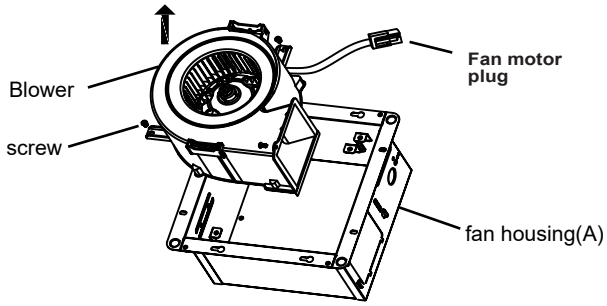
3 Remove Duct Connector/Wire Cover

- □ Use a flathead screwdriver to release the two duct connector clips located opposite the housing flange, then slide the duct connector away from the flange to remove it from the fan housing as shown.
- □ Unplug the fan motor, then loosen the short screw on the wire cover and remove it from the fan housing.



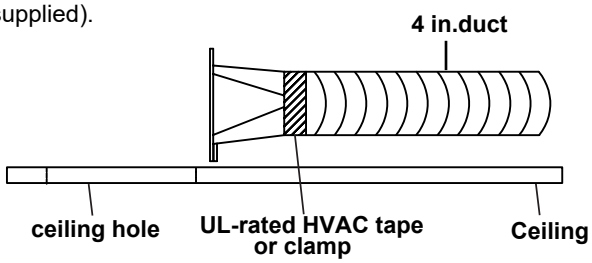
4 Remove the Blower

- □ Remove the three screws on the side of the fan housing (A) that hold the blower in place.
- □ Unplug the fan motor and remove blower from fan housing (A).



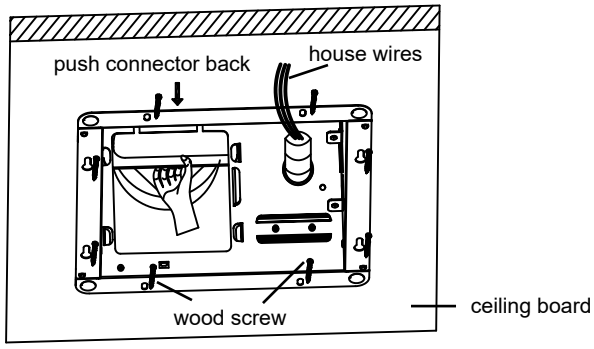
5 Connect the Duct

- □ Connect the existing 4 in. duct to the duct connector. Secure it with a UL-rated HVAC tape (not supplied) or a clamp (not supplied).



6 Reinstall the Duct Connector

- □ Pull the supply wires through the wire hole in the fan housing.
- □ Insert the fan housing (A) into the ceiling hole.
- □ Position the fan housing so the bottom edge of the housing is flush with the ceiling board.
- □ Mount the fan housing to the ceiling board with eight long wood screws (BB).
- □ Reattach the duct connector to the housing by sliding it back into its original housing location.

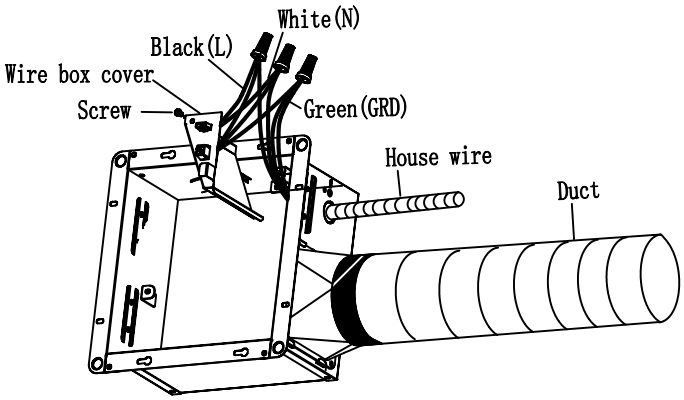


Installation - Existing Construction (continued)

7 Connect the Wires

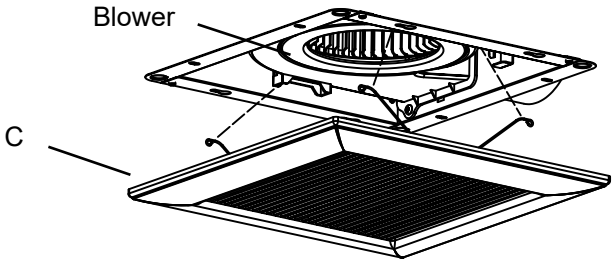
- Using the screw-on wire connectors (CC), connect the supply wiring from the wall switch to the fan housing.
- Please refer to the wiring diagrams on page 4 to ensure proper wire connections are made.
- Carefully push the wire connections into the wiring box housing and reattach the wiring box cover.

CAUTION: If your supply wires do not match these colors, determine what each supply wire represents before connecting. You may need to consult a licensed electrician to determine this safely.



8 Attach the Blower/LED Grill

- Reinstall the blower into the fan housing (A) using the three screws. Replug the fan motor.
- Select desired LED color temperature using the CCT selection switch on the back of the grill (C).
- Connect the LED wire to the plug found in the fan housing.
- Squeeze the springs together and insert into the main body of the housing fan as shown.
- Check that the installation is secure and that the LED grill won't fall.



Care and Maintenance

CAUTION: Make sure power is switched off at service panel before servicing

- □ See SAFETY INFORMATION before proceeding. Routine maintenance should be done at least once a year.
- □ Never use solvents, thinner or harsh chemicals for cleaning the fan.
- □ Do not allow water to enter the motor.
- □ Do not immerse metal parts in water.
- □ Remove the grill by squeezing the springs and pulling down.
- □ Wash and clean the grill in a sink and dry with a cloth.
- □ Remove dust and dirt from the fan housing with a vacuum.
- □ Dampen cloth with a mild solution of dish detergent and water, wipe the fan housing and dry with a cloth.
- □ Replace the grill.

Troubleshooting

CAUTION: Do not install in locations where the air temperature will exceed 104°F (40°C)

Problem	Possible Causes	Corrective Action
The fan will not turn on.	Power off.	Make sure the power supply is on.
	Faulty switch.	Test or replace the switch.
	Faulty wire connection.	Check the wires in the fan housing/switch box.
The fan seems louder than it should be.	The damper is damaged or not working properly.	Check the damper to ensure it is opening and closing properly. If the damper has become damaged please call Customer Service.
	The bend in the duct is too close to the fan discharge.	Be sure you do not have any sharp bends in the duct within 18 in. of the fan discharge.
	The fan discharge is reduced to fit a smaller duct.	Use the recommended size ducting (4 in.) to reduce fan noise.
	The fan body is not attached securely.	Be sure the fan is securely attached to the ceiling joists.

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