

MODEL ODD-110-18PB



WARNING

WARNING — THE INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.

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

Application Notice

1. Use this unit only in the manner intended by the manufacturer. Contact the manufacturer in case of questions
2. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switching 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 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
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. This fan is NOT for use in kitchens
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. DO NOT use this fan with any solid-state speed control device
9. DO NOT vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages
10. The fan MUST NOT be installed in a ceiling thermally insulated to a value greater than R40

CAUTION

PLEASE READ INSTRUCTION BEFORE COMMENCING INSTALLATION AND RETAIN FOR FUTURE REFERENCES.

Electrical products can cause death or injury, or damage to property.

If in any doubt about the installation or use of this product, consult a competent electrician.

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 motor with the exact service motor. The impeller should also be replaced.

OPERATION

The control box, located inside the fan housing, has four settings:

- 1) The low airflow knob adjusts the lower airflow from 30 CFM up to the air flow rate of the high fan speed determined by the toggle switch setting.
- 2) The humidity sensor knob set user-adjustable setpoint. The humidity sensor is deactivated when set between OFF-30% (factory set to OFF (Ambient temperature of +25C)
- 3) The time delay knob is adjustable from 5 to 60 minutes and will switch the fan to the low speed setting after the switch II is turned off for the set period of time. The time delay setting is deactivated when set between OFF-5 mins (factory set to OFF)
- 4) The toggle switches will adjust the fan speed setting from 80 to 140 CFM (factory set to 110 CFM)

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OPERATION

To Turn Fan ON

Turn the switch I (according to the CONNECT ELECTRICAL WIRING section on page 7 of this instruction manual) ON.

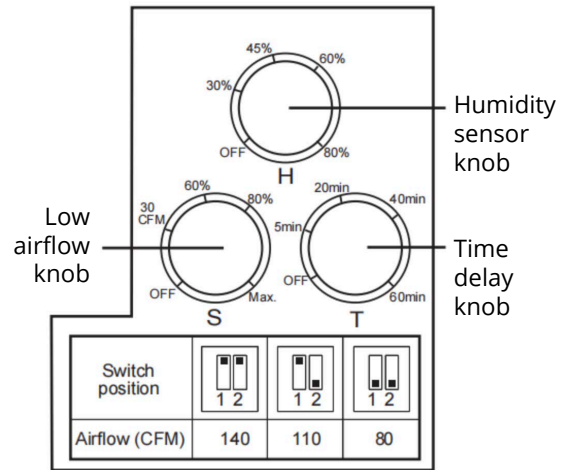
- Fan will run at the certified airflow rate if the switch II is ON
- Fan will run at the user-adjustable airflow rate if the switch II is OFF.

To use fan time delay airflow rate change:

1. Turn the switch I ON
2. Turn the switch II ON — fan will run at the certified airflow rate
3. When the switch II is turned OFF, fan will continue to run at the certified airflow rate until the user-adjustable time delay has elapsed, and then will automatically change to the user-adjustable airflow rate

To Turn Fan OFF

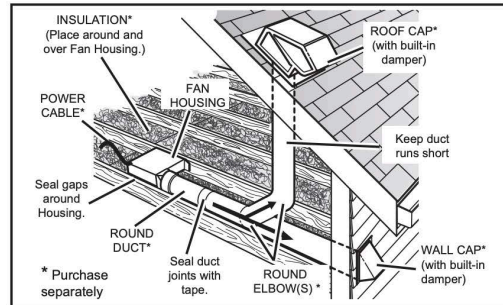
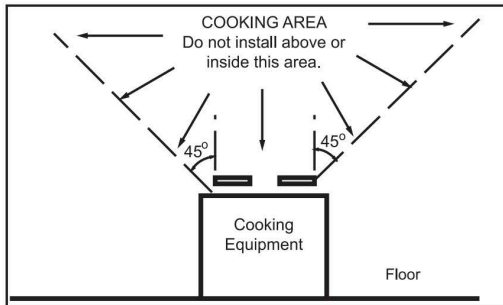
Turn the switch I OFF.



INSTALLATION GUIDE

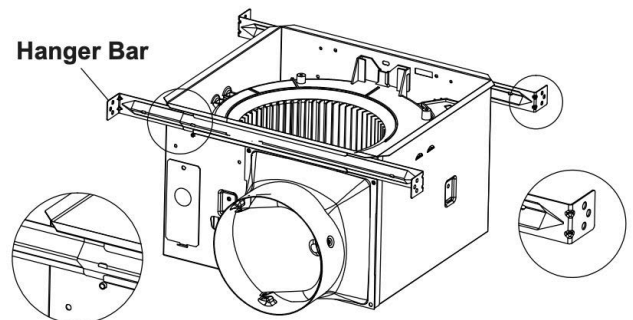
Plan the Installation

1. DO NOT use in a cooking area
2. Two ways to connect ductwork to a factory-shipped unit



Assembly Instructions

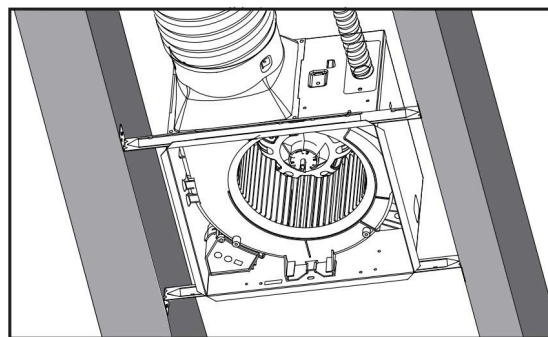
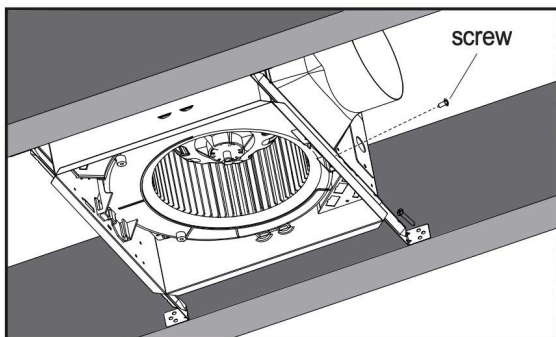
1. Slide hanger bars have been provided, which allow the housing to be positioned accurately anywhere between the framing. The bars span up to 24 inches and can be used on all types of framing: I-joist, standard joist, and truss construction. Slide hanger bars onto housing and adjust as needed to fit between framing



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INSTALLATION GUIDE

Assembly Instructions



2. Extend the hanger bars to the width of the framing.
Position the ventilator with the bottom edge of the hanger bar tabs are flush with the bottom edge of the framing, holding the ventilator in place. Secure hanger bars to framing using one screw on each end of hanger bar. Select a proper hole and secure the hanger bars together using one screw
3. Install Round Ductwork
Connect the round ductwork (not included) to the damper / duct connector, and run the ductwork to a roof or wall cap (not included). Using tape (not included), secure all the ductwork connections so that they are air tight

Connect Electrical Wiring

Fig.1 For Dual Speed Setting

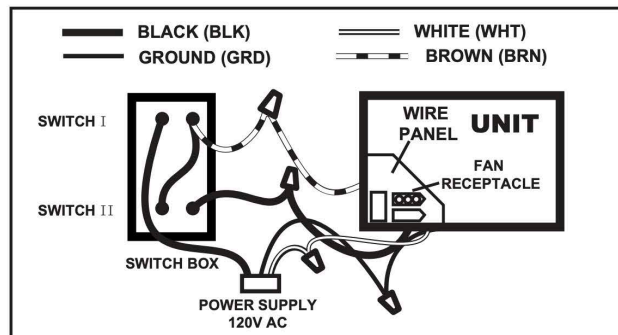
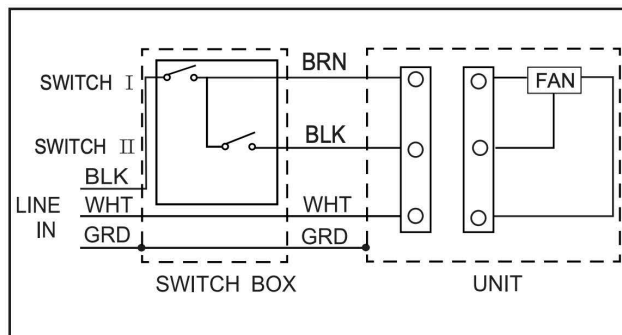
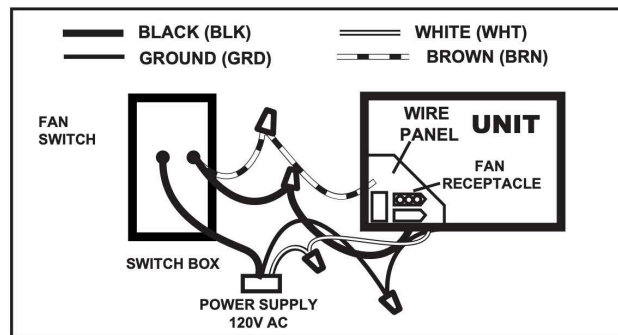
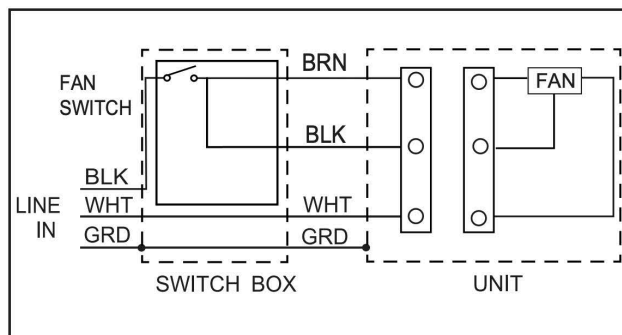


Fig.2 For Single Speed Setting



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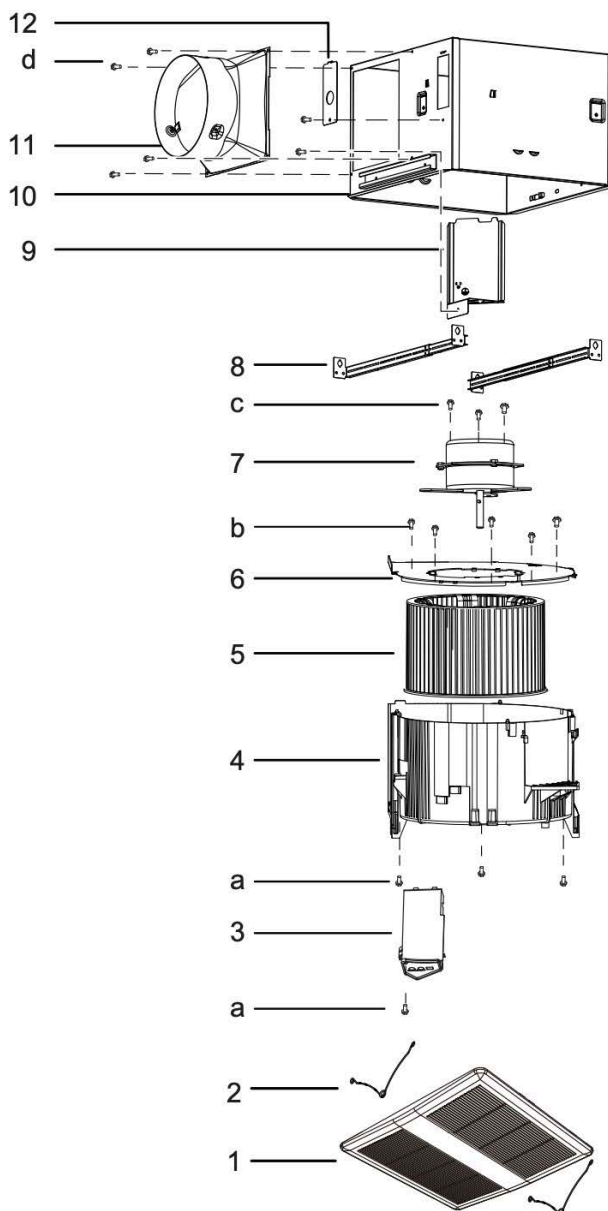
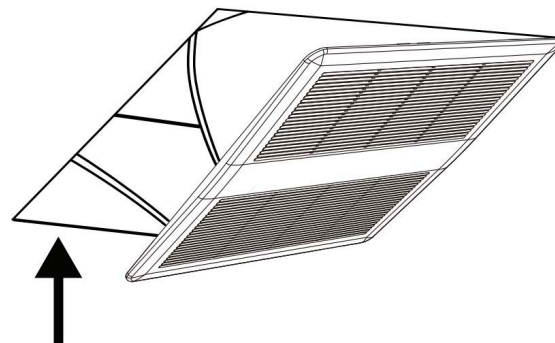
SERVICE PARTS

Install Grille

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

To attach the grille assembly to the fan housing, pinch the grille springs on the sides of the grille assembly, and position the grille into the housing with the grille springs in the appropriate slots.

Push the grille assembly towards the ceiling to secure.



Service Parts

| PART | PART NAME | Qty. |
|------|-----------------------------------|------|
| 1 | Grille Assembly (includes part 2) | 1 |
| 2 | Grille Spring | 2 |
| 3 | Control Box | 1 |
| 4 | Blower | 1 |
| 5 | Blower Wheel | 1 |
| 6 | Motor Plate | 1 |
| 7 | Motor | 1 |
| 8 | Hanger Bar Kit | 4 |
| 9 | Wire Panel / Harness Assemblye | 1 |
| 10 | Housing | 1 |
| 11 | Damper / Duct Connector | 1 |
| 12 | Wiring plate | 1 |
| a | Screw | 4 |
| b | Screw | 5 |
| c | Screw | 3 |
| d | Screw | 6 |

* Blower Assembly includes part 3, 4, 5, 6, 7, b, c

WARNING

Ensure that the fan is switched OFF from the supply mains before replacing.

ORTECH reserves the right to modify at any time, without notice, any or all of our product's features, designs, components and specifications to meet market changes.