

MODEL ODM-5004 | ODM-8010



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

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 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 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
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
9. 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

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

Use an ON/OFF switch to operate this fan. See "Connect Electrical Wiring" on page 4 of this instruction manual for details.

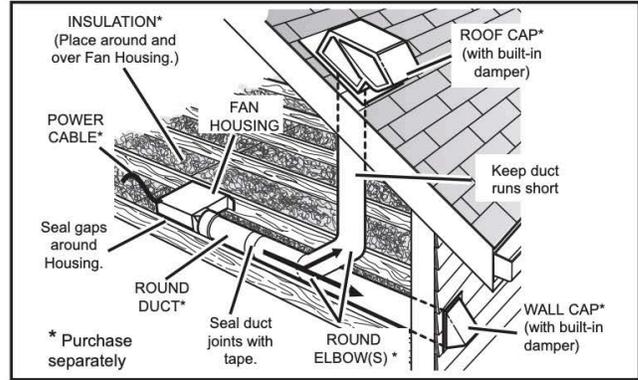
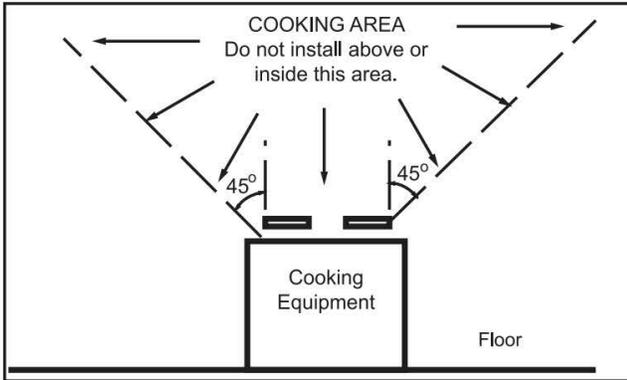
INSTALLATION GUIDE

Types of Typical Installations

1. Housing mounted to I-joists (refer to Assembly Instructions 1 on the next page of this manual)
2. Housing mounted to joists (refer to Assembly Instructions 1 on the next page of this manual)
3. Housing mounted to truss (refer to Assembly Instructions 2 on the next page of this manual)

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Plan the Installation

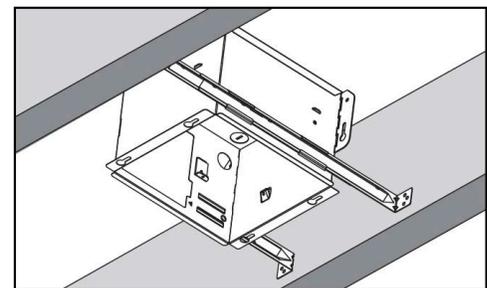
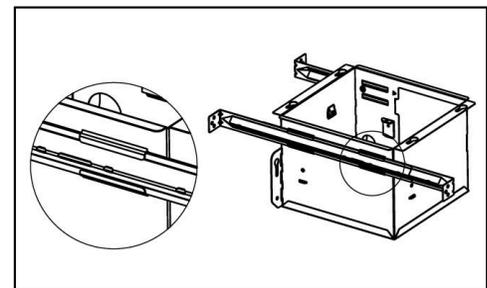
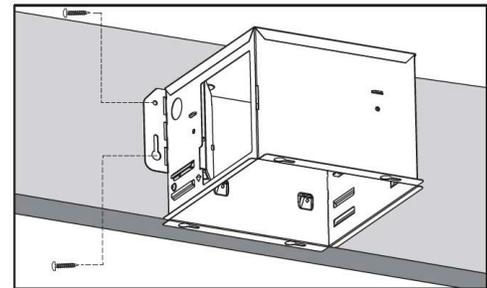


1. DO NOT use in a cooking area
2. Two ways to connect ductwork to a factory-shipped unit

Assembly Instructions

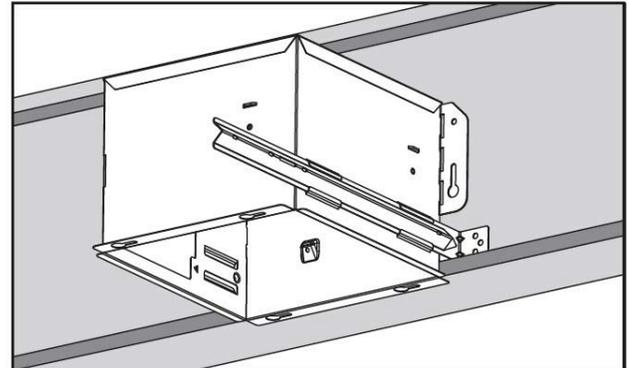
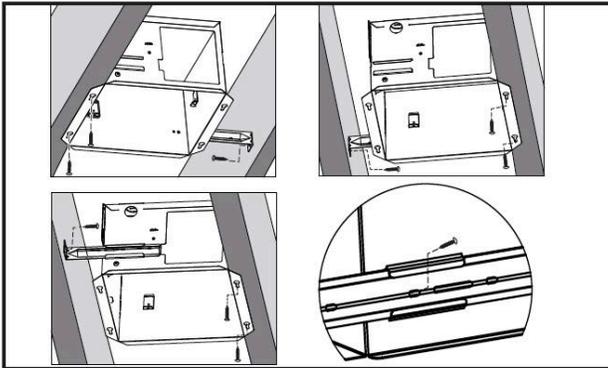
1. Mount Housing to Joist or I-joist
 - a) Hold the housing so that it is in contact with the bottom of the joist
 - b) Attach the housing with four (4) screws to the joist through the holes in each mounting flange

2. Mount with Hanger Bars
 - a) Slide hanger bars have been provided, which allow the housing to be positioned accurately anywhere between the framing. The bars span up to 24" 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.
 - b) Position the ventilator with the housing in contact with the bottom of the joist, holding the ventilator in place. Secure hanger bars to framing using one screw on each end of hanger bar
 - c) Select a proper hole and secure the hanger bars together using flange screws



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Assembly Instructions

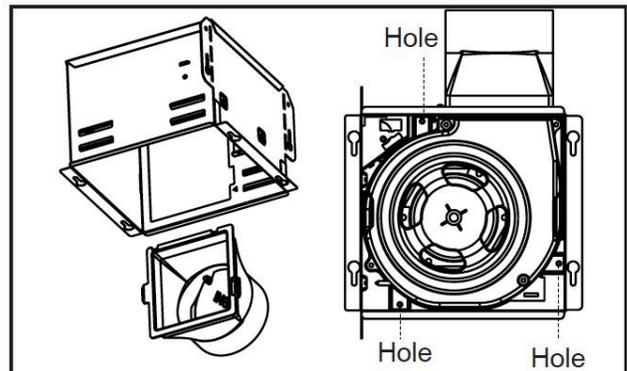
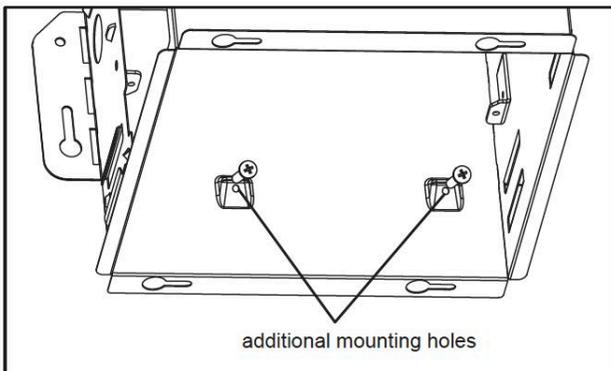


3. Mount with Mounting Holes and Hanger Bar

- a) Slide one hanger bar into the channel on the housing and adjust as needed to fit between framing
- b) Hold housing in place so that the housing contact the bottom of the joist. Screw housing to joist through the hole of the housing
- c) Screw the hanger bar onto the other side of joist through the hole
- d) Screw hanger bar to housing with screw
- e) Refer to the diagram on the right

4. Mount to I-joist

- a) Slide one hanger bar into channel on the housing and adjust as needed
- b) Hold housing in place so that the housing contacts the bottom of the joist
- c) Screw housing to joist through the hole of the housing
- d) Screw the hanger bar onto the joist through the hole
- e) Screw hanger bar to housing with screw



5. Mount with Additional Mounting Holes

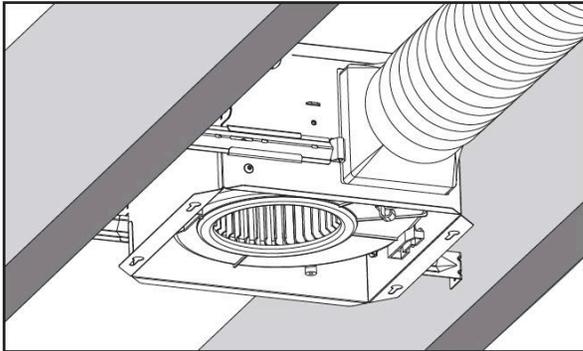
The interior of the fan housing contains additional mounting holes in case exterior mounting is not possible. Screw or nail the fan housing directly to the framing or joists. Remove the blower assembly as directed in the service parts section on the very last page of this instruction manual to gain access to the additional mounting holes.

6. Install Duct and Blower Assembly

- a) Install duct from the inside of the housing. Fix the duct by the tab
- b) Fix the BLOWER ASSEMBLY to the housing by 3 screws

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Assembly Instructions



7. Install Round Ductwork

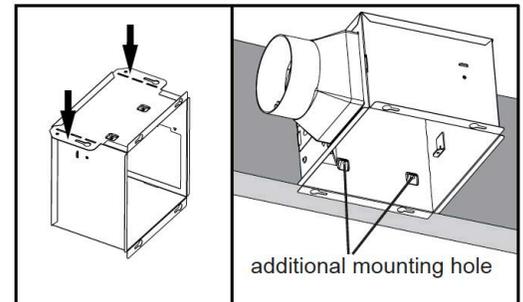
- a) Connect the round ductwork (not included) to the damper/duct connector, and run the ductwork to a roof or wall cap (not included)
- b) Using tape (not included), secure all the ductwork connections so that they are air tight
- c) Insulated flexible duct is recommended for the quietest possible installation. If rigid duct is used, a short (1-3 ft) section of insulated flexible duct will ensure quiet operation

The ducting from this fan to the outside of 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.

Retrofit Installation

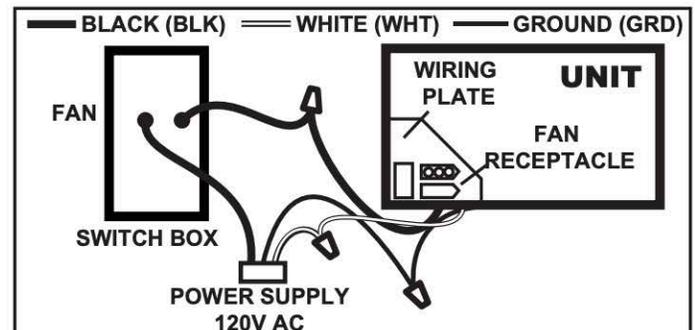
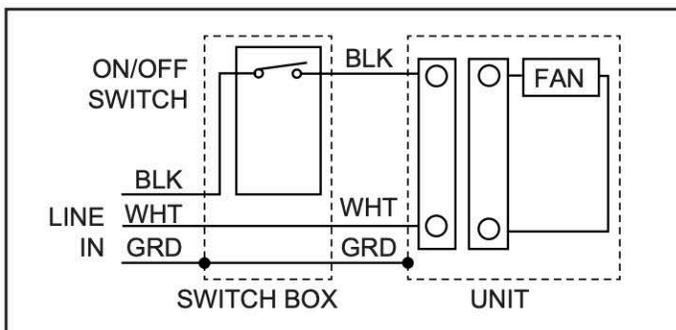
Before installation, turn OFF power source. Remove old fan.

- 1) Measure the opening to ensure that it is not larger than 7-2/5" x 7-3/4". Cut a 7-2/5" x 7-3/4" opening
- 2) Fold mounting ears flat against housing
- 3) Attach the housing with 2 screws to the joist through additional mounting holes
- 4) Pull the housing wires through the housing hole, secure 120V AC housing wiring from the wall switch to the fan as shown in the wiring diagram section below on this page of the manual
- 5) Follow the step 7 from ASSEMBLY INSTRUCTIONS on this page
- 6) Follow the step 6a of the ASSEMBLY INSTRUCTIONS from the previous page
- 7) Follow the step 6b of the ASSEMBLY INSTRUCTIONS from the previous page

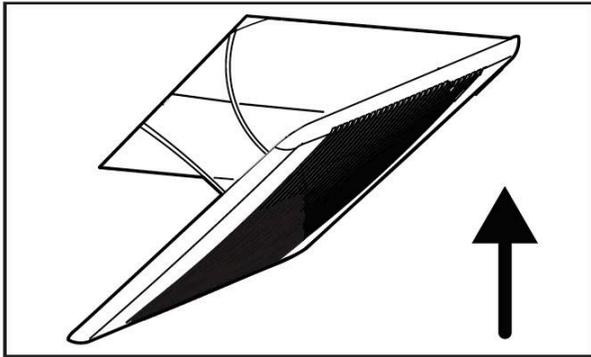


Connect Electrical Wiring

Run 120V AC house wiring to the location of the fan. Use only UL-approved connectors (not included) to attach the house wiring to the wiring plate. Refer to the wiring diagram below, and connect the wires as shown.



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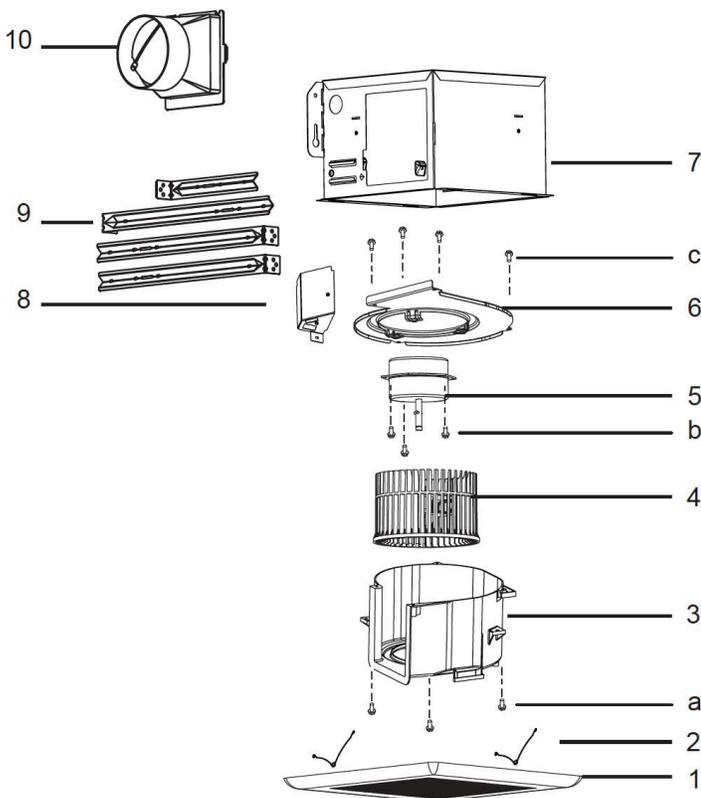
Install Grille

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



WARNING

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

PART	PART NAME	Qty.
1	Grille Assembly (includes part 2)	1
2	Grille Spring	2
3	Blower	1
4	Blower Wheel	1
5	Motor	1
6	Motor Plate	1
7	Housing	1
8	Wire Panel / Harness Assembly	1
9	Hanger Bars	4
10	Duct/Duct Connector	1
a	Screw	3
b	Screw	3
c	Screw	4

* Blower Assembly includes part 3, 4, 5, 6, a, b

* Replacement Installation

Remove the screw (part a), then take out the blower assembly from the housing (part 7).

Replace the broken parts.