

INSTALLATION GUIDE VENTILATION FAN

MODEL: BPT13-13P 70CFM



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INTRODUCTION

YOU MUST 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 booklet for future reference.

This Theia Series ventilation fan uses state-of-the-art technology and is designed with a built-in thermal cut-off for safety and to prolong the life of the motor.

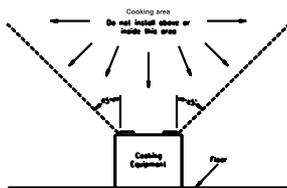
PREPARATION

- Tools Required for Assembly (not included): Hammer, Drill Bits, Flathead Screwdriver, Wire Nuts, Nails, Duct Tape, Phillips Screwdriver, Utility Knife
- Helpful Tools (not included): Electric Drill, Wood Screws
- Carefully remove unit from carton.
- Check area above installation location to be sure that wiring can run to the planned location and that duct work can be run and the area is sufficient for proper ventilation.
- Inspect duct work and wiring before proceeding with installation.
- Before installation, provide inspection and future maintenance access at a location that will not interfere with installation work.
- 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.
- Note: Installations may vary depending on how the previous ventilation fan was installed. Supplies necessary for the installation of your ventilation fan are not all included; however, most are available at your local home improvement or hardware store.

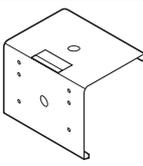
General safety information and warnings

Please read and understand this entire manual before attempting to assemble, operate or install the product.

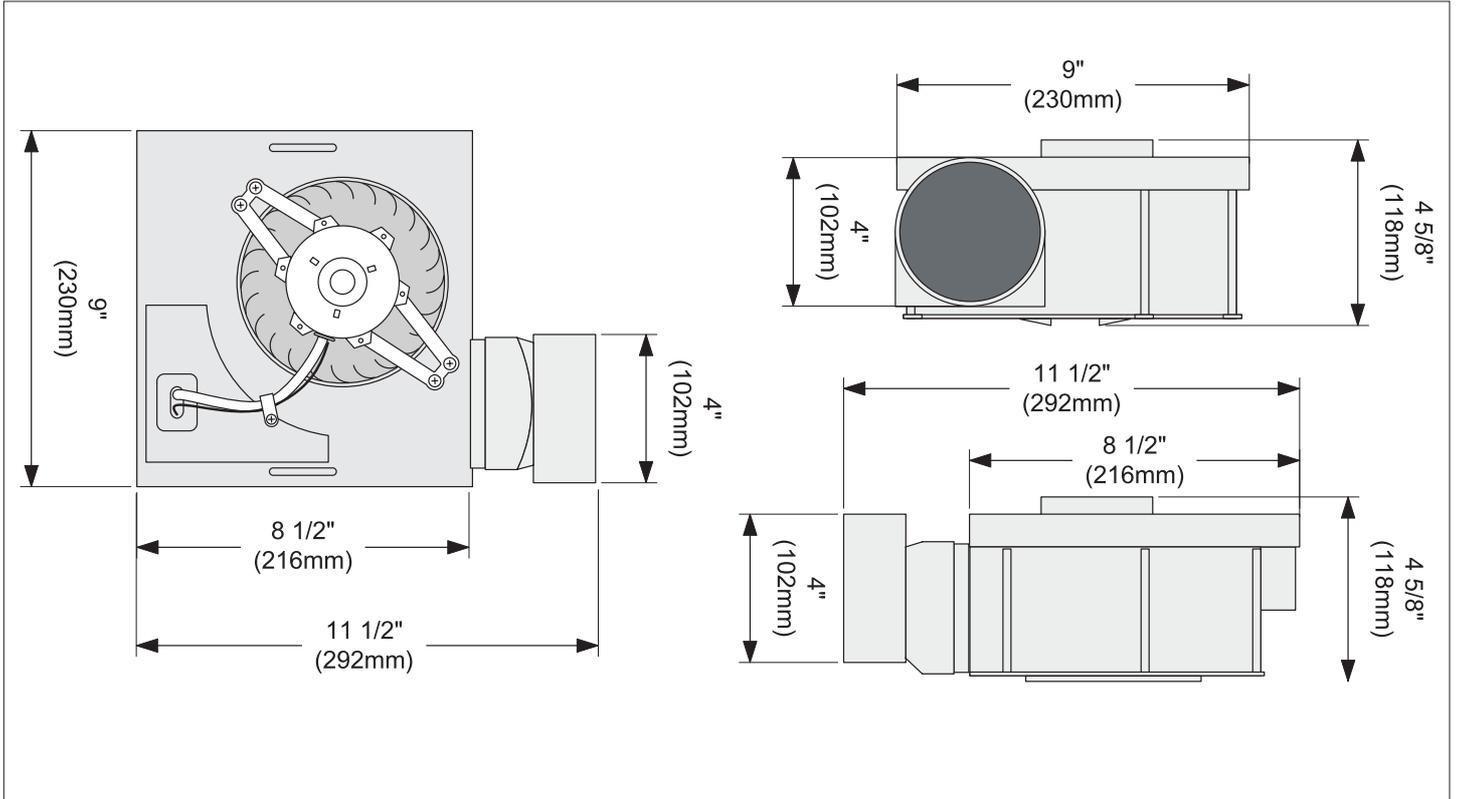
1. Always disconnect the power supply prior to servicing the fan, motor or junction box.
2. Installation work must be carried out by a qualified person(s) in accordance to all local and safety codes including the rules for fire-rated construction.
3. Follow all local building, safety and electrical codes as well as NEC (National Electrical Code) and OSHA (Occupational Safety and Health Act).
4. Electric Service supply must be 120 volts, 60 hertz.
5. This unit must be properly grounded.
6. Do not bend or kink the power wires.
7. Exercise care to not damage existing wiring when cutting or drilling into walls or ceilings.
8. Sufficient air supply is required for proper combustion and the exhaustion of gases through the chimney (flue) of fuel burning equipment to prevent back-drafting. See the standards of NFPA (National Fire Protection Association) and ASHRAE (American Society for Heating Refrigeration and Air Conditioning Engineers) and the local building code authorities.
9. **WARNING: To Reduce The Risk Of Fire Or Electric Shock . Do not use this fan with any solid state speed control device, such as a remote control, dimmer switch, or certain timers. Mechanical timers are not solid state devices.**
10. This ventilation fan is approved for use over a bathtub or shower when installed in a GFCI protected circuit. Do not use fans over a bathtub or shower that are not approved for that application and marked accordingly.
11. Do not install in a cooking area. — see installation instructions. or where the room air temperature will exceed 104 °F (40 °C).
12. **CAUTION: For General Ventilating Use Only. Do not use to exhaust hazardous or explosive materials and vapors.**
13. Fans should always be vented to the exterior and in compliance with local codes and avoid any sharp corner, area reduction or unnecessary angles on ducting. Do not vent exhaust air into spaces within walls or ceiling or into attic, crawl spaces or garages.
14. Do not install in a ceiling with insulation greater than R40.
15. Duct work should be installed in a straight line with minimal bends.
16. Duct work size must be the same size as the discharge and should not be reduced. Reducing the duct size may increase fan noise.
17. Prior to service or cleaning this unit, shut off power supply at the panel and lock to prevent the power from being turned on. If the panel cannot be locked, clearly mark the panel with a warning tag to prevent the power from being turned on.
18. Use this unit in the manner intended by the manufacturer. If you have any questions. Please call customer service.
19. Mount with the lowest moving parts at least 2.5 meters above the floor or grade level.
20. Ducted fans must always be vented to the outdoors.
21. The product is not intended for connection to rigid metal conduit.
For flexible conduit use only



List of parts and accessories supplied

PART NAME	APPEARANCE	QUANTITY	PART NAME	APPEARANCE	QUANTITY
Grille / Light cover		1	Suspension bracket		1
Long wood screw		6			

Dimensions



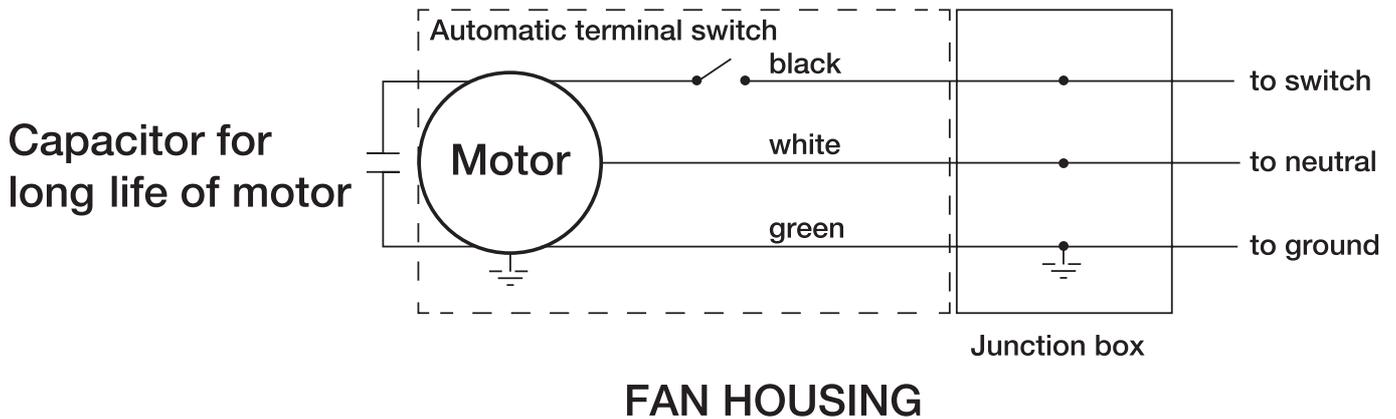
Specifications

MODEL NO.	AIR DIRECTION	V	HZ	DUCT DIAMETER	NOISE (SONE)	WEIGHT
BPT13-13P	70 CFM	120	60	4" (10 cm)	1.5	3,5 lbs (1,6 kg)

- For an average ductwork which is 10' to 15' (3 m to 4,6 m) long, 4" (10 cm) in diameter with the assumption of a 8' (2.4 m) high ceiling.
- 70 CFM = 70 square feet
- If the area is larger, you may use a fan providing a greater CFM

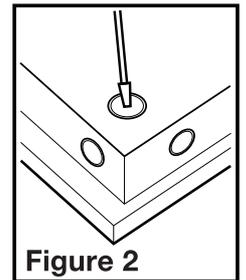
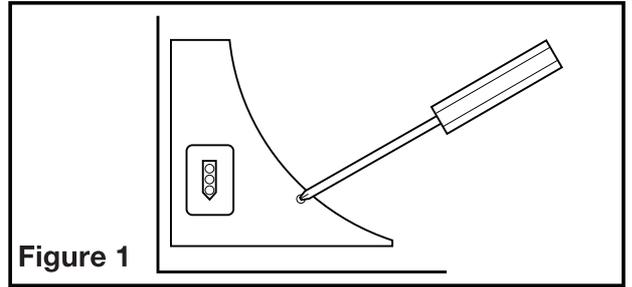
Wiring diagram

to 120V AC 60 Hz



SECTION 1 - Preparing the Exhaust Fan

1. Unpack fan from the carton and confirm that all pieces are present. In addition to the exhaust fan.
2. Remove the wire compartment cover and store in the carton until needed so it does not get damaged or lost (Figure 1).
3. Choose the location for your fan. To ensure the best air and sound performance, it is recommended that the length of ducting and the number of elbows be kept to a minimum, the radius of each elbow be as large as possible for the installation, and that insulated hard ducting be used. Larger duct sizes will reduce noise and airflow restrictions.
4. Select the most convenient electrical knockout and remove using a straightblade screw driver (Figure 2).
5. No additional vibration deadening materials are needed for this fan.

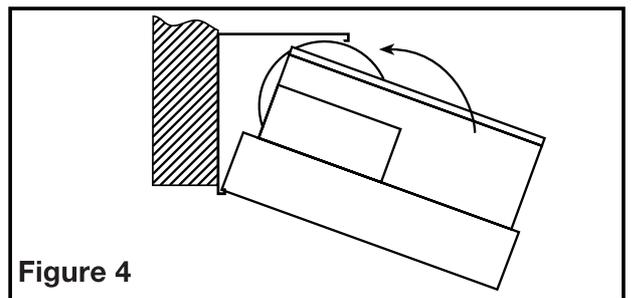
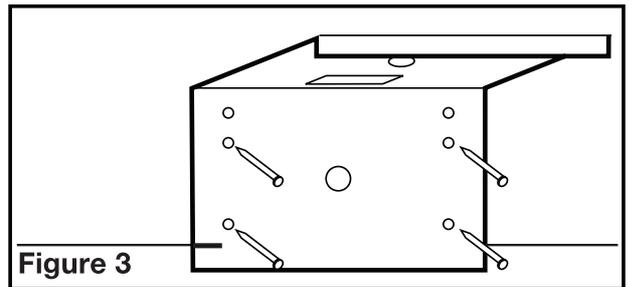


SECTION 2 - New constructions

1. Using the gauge on the mounting bracket, line up the bracket on the joist so the bottom of the fan will be flush with the finished ceiling. Nail or screw the bracket in place securely (Figure 3).

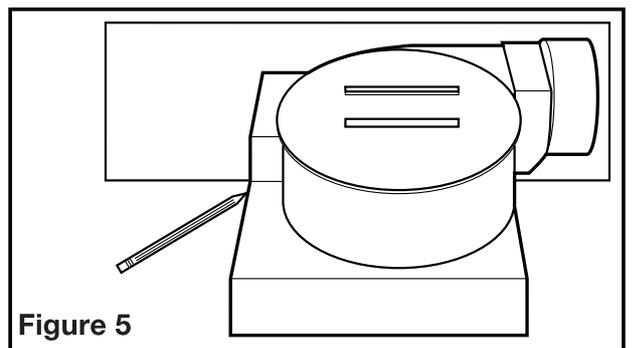
WARNING: PROPER INSTALLATION REQUIRES A MINIMUM OF 4 SCREWS LOCATED IN HOLES CLOSEST TO DRYWALL.

2. Snap the fan body into the bracket (Figure 4). The fan can be snapped into position with the duct collar facing to the left or the right depending which is most convenient.



SECTION 3 - Existing constructions

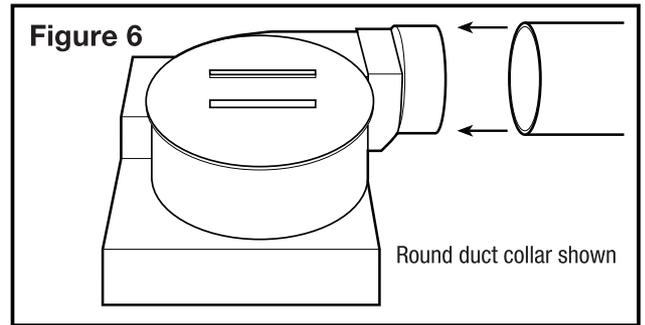
1. Position housing against the joist or stud and trace an outline of the housing onto the ceiling/wall material. Set housing aside and cut opening, being careful not to cut or damage any electrical or other hidden utilities (Figure 5).
2. Line up the bracket on the joist so the bottom of the fan will be flush with the finished ceiling. Nail or screw the snap-in bracket in place securely (Figure 3).
3. Snap the fan body into the bracket (Figure 4). The fan can be snapped into position with the duct collar facing to the left or the right depending which is most convenient.



SECTION 4 - Ducting

CAUTION: ALL DUCTING MUST COMPLY WITH LOCAL AND NATIONAL BUILDING CODES.

1. Connect the ducting to the fan's duct collar (Figure 6). Secure in place using tape or screw clamp. Always duct the fan to the outside through a wall or roof cap. It is recommended that low restriction termination fittings be used.

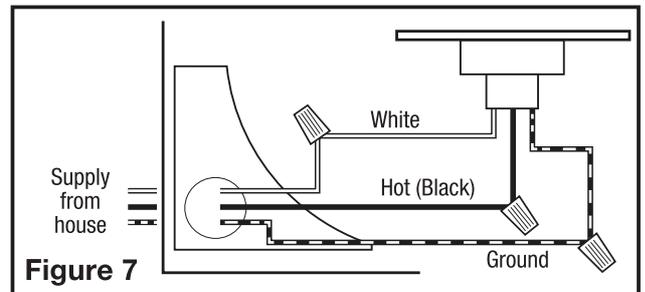


SECTION 5 - Wiring

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

CAUTION: ALL ELECTRICAL CONNECTIONS MUST BE MADE IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, OR NATIONAL ELECTRICAL CODE. IF YOU ARE UNFAMILIAR WITH METHODS OF INSTALLING ELECTRICAL WIRING, SECURE THE SERVICES OF A QUALIFIED ELECTRICIAN.

1. Run wiring from an approved wall switch carrying the appropriate rating. One neutral (white), one ground (green or bare copper), and one hot (black lead connected to the switch). Secure the electrical wires to the housing with an approved electrical connector. Make sure you leave enough wiring in the box to make the connection to the fan's receptacle.
2. From where you have access to inside the fan's junction box, connect the White wire from the house to the White wire from the fan's receptacle. Connect the Black wire from the wall switch to the Black wire from the fan's receptacle. Connect the ground wire from the house to the Green wire from the fan's receptacle (Figure 7). Use approved methods for all connections.



SECTION 6 - Completing the Installation

1. Use a sealant appropriate for contact with the building materials present and for the temperature requirements of the installation to prevent air leakage from unconditioned spaces is recommended. If gaps between unit housing and ceiling are great, additional material (backing rod, ceiling material) may be required.

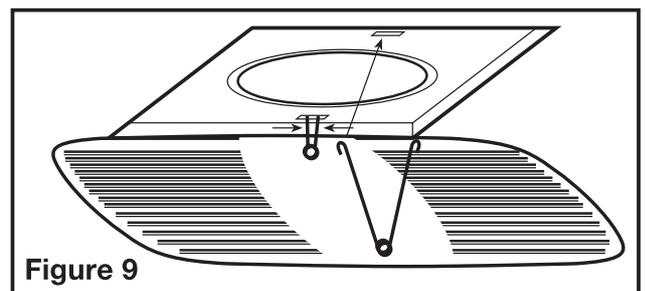
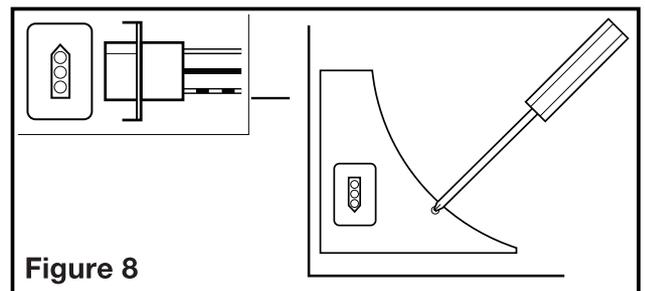
NOTE: This fan is rated for direct insulation contact (Type IC) and it is recommended that this fan be completely covered by insulation in order to reduce heat loss or gain to unconditioned space.

2. Reinstall the fan's wire compartment cover. Rotate the blower wheel by hand to ensure it spins freely. Plug the fan's quick connect motor cord into the receptacle. This cord will only fit one way into the receptacle (Figure 8).

NOTE: If using this fan to meet ASHRAE 62.2 requirements, locate the label inside the fan housing and fill in the appropriate information.

3. Install the grill by squeezing the two ends of the springs together and installing them up into the slots of the fan's housing. Push the grill up into position (Figure 9).

4. Restore power and test your installation.



Maintenance

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE SERVICING THE UNIT.

1. Cleaning the Grill: Remove grill and use a mild detergent, such as dishwashing liquid, and dry with a soft cloth. NEVER USE ANY ABRASIVE PADS OR SCOURING POWDERS. Completely dry grill before reinstalling. Refer to instructions in Section 6 Finishing the Installation, to reinstall grill.
2. Cleaning the Fan Assembly: Unplug the motor cord from receptacle. Wipe all parts with a dry cloth or gently vacuum the fan. NEVER IMMERSE ELECTRICAL PARTS IN WATER. Plug the motor cord back in and restore power.

Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Fan does not operate when the switch is on.	1a A fuse may be blown or a circuit tripped.	1a Replace fuse or reset circuit breaker.
	1b Connector plug from motor is not plugged in.	1b Turn off power to unit. Remove Grill and plug motor into receptacle in housing. Restore power to unit.
	1c Wiring is not connected properly.	1c Turn off power to unit. Check that all wires are connected.
	1d Motor has stopped operating.	1d Replace motor.
2. Fan is operating, but air moves slower than normal.	2. Obstruction in the exhaust ducting.	2. Check for any obstructions in the ducting. The most common are bird nests in the roof cap or wall cap where the fan exhausts to the outside.
3. Fan is operating louder than normal.	3a Motor is loose.	3a Turn off power to unit. Remove grill and check that all screws are fully tightened. Restore power to unit.
	3b Fan blade is hitting housing of unit.	3b Call your dealer for service.

Limited warranty

WHAT THIS WARRANTY COVERS:

This product is warranted against defects in workmanship and/or materials.

HOW LONG THIS WARRANTY LASTS:

This warranty extends only to the original purchaser of the product and lasts for **two years** from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs.

WHAT Megatron WILL DO:

During the warranty period, Megatron will, at its sole option, repair or replace any part or parts that prove to be defective or replace the whole product with the same or comparable model.

WHAT THIS WARRANTY DOES NOT COVER:

This warranty does not apply if the product was damaged or failed because of accident, improper handling or operation, shipping damage, abuse, misuse, unauthorized repairs made or attempted. Megatron will pay return shipping charges to Megatron warehouse in warranty replacement cases.

Some states and provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state and province to province. Proof of purchase is required before a warranty claim will be accepted.