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# HIGH CAPACITY BARREL FAN

**User's Manual & Operating Instructions**

**Model Number: MAC-48-BDF-C, 48MACAP-BDF**

## CONSUMER: READ AND SAVE THESE INSTRUCTIONS

**IMPORTANT:** Read and understand all of the instructions in this manual before assembling, starting, or servicing the fan. Improper use of this fan can cause serious injury. Keep this manual for future reference.

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors. Never use the fan in spaces which contain products such as gasoline, solvents, paint thinners, dust particles, volatile or airborne combustibles, or any unknown chemicals.

This product meets the requirements of OSHA 1910.212(a)(5), the standard which regulates electric fan blade safety, and is certified under UL File

⚠ **WARNING:** This product can expose you to chemicals, including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Please note the serial number of your fan, and write it on the back of this User's Manual for future reference. Your serial number is located on upper rear section of mount bar.

## Safety Information

| | |
|---|---|
| ⚠WARNING | THIS IS A FAN - NOT A TOY! TO REDUCE THE RISK OF PERSONAL INJURY AND ELECTRIC SHOCK, FAN SHOULD NOT BE PLAYED WITH OR PLACED WHERE SMALL CHILDREN CAN REACH IT. |
| ⚠WARNING | DO NOT MOVE THE FAN WHILE OPERATING! MOVING FAN DURING OPERATION CAN CAUSE BLADE DAMAGE. |
| ⚠WARNING | To guard against electric shock while operating, do not allow fan to come in contact with other grounded objects such as pipes, radiators, etc. |
| ⚠WARNING | Risk of fire, electric shock, or personal injury when performing service or maintenance. Unplug or disconnect the fan from the power supply before servicing. |
| ⚠WARNING | CAUTION: automatically operated device - to reduce the risk of injury disconnect from power source before servicing. |
| ⚠WARNING | To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device. |
| ⚠WARNING | To reduce the risk of electric shock and injury to persons, do not use in a window. |

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**NEVER LEAVE A FAN UNATTENDED WHILE OPERATING OR WHILE CONNECTED TO A POWER SOURCE**

## Safety Information

**⚠WARNING** To reduce the risk of electric shock, do not expose to water or rain. This unit is designed for indoor use only.

**⚠WARNING** Installation work and electrical wiring must be done by qualified person (s) in accordance with all applicable codes and regulations.

**⚠WARNING** When servicing or replacing a component requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed before operating this fan.

**⚠WARNING** To reduce the risk of fire, electric shock, or injury to persons, do not use replacement parts that have not been recommended by the manufacturer (e.g. parts made at home using a 3D printer).

**⚠WARNING** Use this fan only in the manner intended by the manufacturer. If you have any questions, contact Customer Service at 800-641-6996.

- Before operating always check fan for loose or damaged parts. Inspect power cord for damage. Never use fan without safety guards attached.

-Operate only on 120 volt 60 Hz (cycle) current with a minimum 15 amp circuit.

- When used with an extension cord, use a UL listed, 14 AWG cord equipped with a receptacle to accept the three-prong grounded plug on the fan's power cord and a 3-prong grounded plug for the power source. If extension cord is longer than 50 feet, consult with cord manufacturer for proper cord AWG rating. Always keep power cord and extension cords away from heat, oil, and sharp edges. Inspect cords periodically and replace if damaged.

**⚠WARNING** Do not operate any fan with a damaged cord or plug. Discard fan or return to an authorized service facility for examination and/or repair. Do not run cord under carpeting. Do not cover cord with throw rugs , runner, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic areas and where it will not be tripped over.

## Operation

**NOTE**: **This fan is equipped with a 2-speed control switch.**

**TO START FAN:**

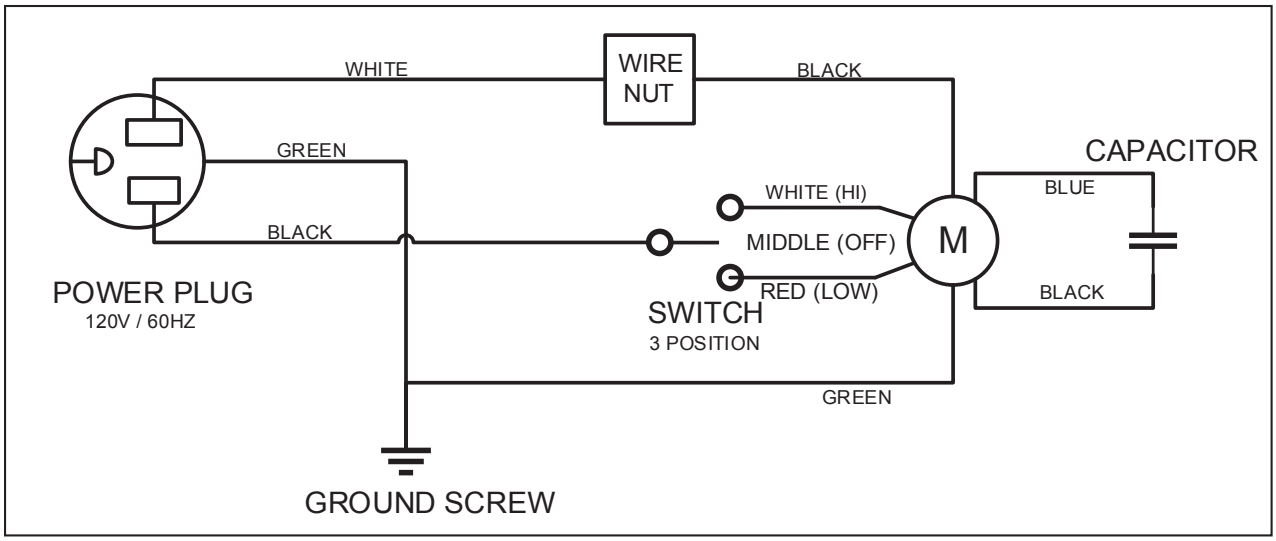
1. Be sure the Power Switch is in the (OFF) position.
2. Locate fan in a safe, desired position on level ground, and connect to approved power source.
3. Make sure area is clear from all obstructions.

**TO TURN OFF FAN:**

1. To turn off the fan, simply return the Power Switch to the middle (OFF) position.

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## Wiring Diagram

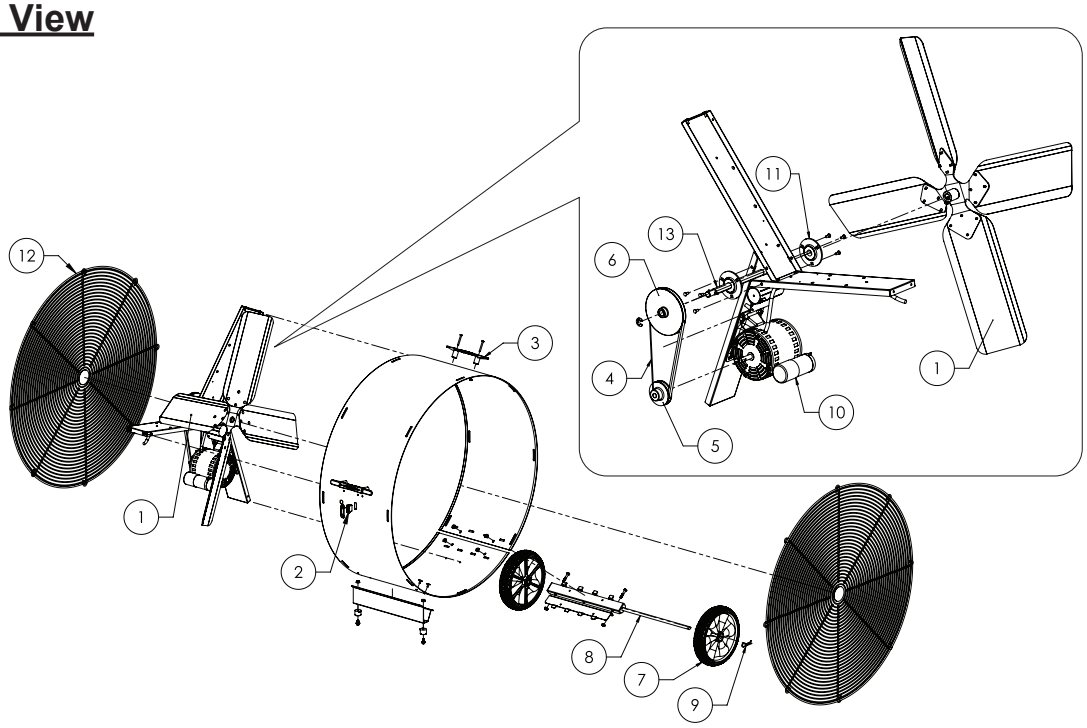



**NOTE: Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and regulations.**

## Troubleshooting Guide

| Problem | Possible Cause | Corrective Action |
|---|---|---|
| Fan does not operate | **1.** No power | Inspect Power Cord for damage. Be sure unit is plugged in and turned on. |
| | **2.** Bad switch | Have Power Switch replaced by a qualified professional according to code. |
| | **3.** Motor is humming | Capacitor is damaged. Have Capacitor replaced by a qualified professional according to code. |
| Reduced Air Flow | **1.** Loose pulleys or fan blade | Tighten motor pulley or fan blade Hex Screw. |
| | **2.** Loose or worn belt | Tighten or replace belt |
| | **3.** Motor is humming | Capacitor is damaged. Have Capacitor replaced by a qualified professional according to code. |
| Excess Noise (vibration, slapping, squealing) | **1.** Fan is not on level ground | Turn off fan, and relocate unit to smooth level surface. |
| | **2.** Motor bolts are not secure | Tighten motor bolts. |

## Exploded View




## Replacement Parts

| Item # | Description | MAC-48-BDF-C, 48MACAP-BDF |
|---|---|---|
| 1 | Fan Blade Assembly | AFB-484-24 |
| 2 | Power Switch | 90-025-0110 |
| 3 | Handle/Cord Wrap | 90-006-0300 |
| 4 | Belt | 26-110-0020 |
| 5 | Motor Pulley | 90-035-0355 |
| 6 | Shaft Pulley | 90-034-0350 |
| 7 | Wheel | 70-041-1400 |
| 8 | Wheel Axle | 11093-AXEL |
| 9 | Wheel Axle pin | 0BPIN091X2 |
| 10 | Motor | CS148 |
| 11 | Bearing assembly | 0BEARING-17 |
| 12 | Guard | 11099-GRDO-48 |
| 13 | Fan Shaft Assembly | 11114-SHAFT |

Pinnacle Climate Technologies, Inc. reserves the right to make any changes in materials, specifications, prices or design without notice. Pinnacle Climate Technologies, Inc. may also discontinue items at any time.

## 1 YEAR LIMITED WARRANTY

**Pinnacle Climate Technologies, Inc.** warrants this product to the original retail purchaser only, to be free from defects in material and workmanship for a period of one (1) year from the date of initial pur delivery chase. This product must be properly installed, maintained and operated in accordance with the instructions provided.

**Pinnacle Climate Technologies, Inc.** requires reasonable proof of your date of delivery from an authorized retailer or distributor. Therefore, you should keep your sales slip, invoice or cancelled check from the original purchase. This Limited Warranty shall be limited to the repair or replacement of parts, which prove defective under normal use and service within the warranty period, and which **Pinnacle Climate Technologies, Inc.** shall determine at its reasonable discretion.

This Limited Warranty does not cover any failures or operating difficulties due to normal wear and tear, accident, abuse, misuse, alteration, misapplication, improper installation or improper maintenance and service by you or any third party. Failure to perform normal and routine maintenance on the product, shipping damage, damage related to insects, birds or animals of any kind, and damage due to weather conditions are also not covered. In addition, the Limited Warranty does not cover damage to the finish, such as scratches, dents, discoloration, rust or other weather damage, after purchase.

All transportation costs for the return of damaged product or parts will be the responsibility of the purchaser. Upon receipt of the damaged item, **Pinnacle Climate Technologies, Inc.** will examine the item and determine if defective. **Pinnacle Climate Technologies, Inc.** will repair or replace and return the item, freight pre-paid.

If **Pinnacle Climate Technologies, Inc.** finds the item to be in normal operating condition, or not defective the item will be returned freight collect. This Limited Warranty is in lieu of all other express warranties. **Pinnacle Climate Technologies, Inc.** disclaims all warranties for products that are purchased from sellers other than authorized dealers or distributors.

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Always be sure to specify the model number and serial number when making any claim with **Pinnacle Climate Technologies, Inc.** For your convenience, use the space provided below to list this information.

ALWAYS BE SURE TO SPECIFY **MODEL NUMBER AND SERIAL NUMBER** WHEN MAKING ANY CLAIM WITH **PINNACLE CLIMATE TECHNOLOGIES, INC.** FOR YOUR CONVENIENCE USE THE SPACE PROVIDED BELOW TO LIST THIS INFORMATION:

Model #: _____ Serial #: _____

Date of Purchase: _____