

# Mobile Box Fan

## OPERATOR'S MANUAL



MOB36612-2 / MOB42634-2 / MOB4861-2



**SCHAEFER**  
Ventilation Equipment

**800-779-3267**

sales@schaefervent.com • www.schaefervent.com

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## Table of Contents

About this Manual . . . . .	2
Safety Recommendations . . . . .	2
Safety Information . . . . .	3
Setup and Operation . . . . .	4
Maintenance . . . . .	4
Troubleshooting . . . . .	5
Parts Identification . . . . .	5
Parts List . . . . .	6
General . . . . .	7
Warranty . . . . .	8

## About this Manual

### THANK YOU!

Thank you for purchasing this quality product. We believe you will find our Mobile Box Fan to be an effective source for cooling. The intent of this manual is to serve as a reference for simple maintenance and questions regarding your product.

**Important!** Before operating the Mobile Box Fan, carefully read and follow these instructions.

**Important!** Pay particular attention to all SAFETY information.

*All information, illustrations and specifications in this manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.*

## Safety Recommendations

- This is an electric device with moving components. There is the possibility of fire, electric shock, or injury to persons. Ensure all the safety recommendations are adhered to in order to minimize this risk.
- Comply with all local and national electrical codes.
- Disconnect all power and unplug the unit before you inspect, clean or perform maintenance on any components.
- Do not allow electrical cord connections to fall or lay in water.
- A GFCI (Ground Fault Circuit Interrupter) is recommended for use with this product.
- If an extension cord must be used, be sure it is properly rated for this product.
- Do not operate without guards in place.

**Follow Safety Instructions**

Carefully read all safety messages in this manual and the safety decals on your equipment. Follow all recommended precautions and safe operating practices.

Keep safety decals in good condition. Replace missing or damaged safety decals.

**Decal Description**

This diagram shows the proper location of the safety decals as shipped from the factory. Make sure the decals are easy to see at all times.

 **WARNING**

**DO NOT USE THIS FAN WITHIN 7 FT. OF FLOOR OR WITHIN REACH OF PERSONNEL**

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**KEEP FINGERS AWAY FROM BLADE**  
Disconnect all power to fan before attempting to move or adjust. OSHA complying guards are strongly recommended when fan is installed within 7' of floor, working level, or within reach of personnel. Review OSHA Codes. See index under Guards, Fan.

 **DANGER**

**DO NOT SPRAY WITH WATER!**

**LINE VOLTAGE!**

**AIR FLOW →**



- back of fan, with guards removed -

## Setup and Operation

### Unpack your Mobile Box Fan

- The unit is shipped fully assembled and strapped to a pallet. Inspect the unit and note any suspected damage when accepting delivery.
- Remove the straps and lift the unit from the pallet.

**Caution:** This unit is very heavy. When removing this unit from the pallet manually, several people should assist to avoid injury.

### Inspect your Mobile Box Fan

- Visually inspect the unit for any damage that may have occurred during shipping.
- Contact your shipper immediately if any damage is found.

### The unit is ready for operation

- Shut down the unit when it is no longer needed.
- Unplug the unit from the electrical outlet.

## Maintenance

**Note:** The fan unit you have purchased is built with heavy duty components, designed to give you many years of performance. Like anything else that is mechanical, your fan unit will require a small amount of periodic maintenance to assure maximum efficiency.

Our fans utilize motors that have totally sealed bearings. Periodically remove dust and grime that has accumulated on the motor, fan blade, and guard. ***Pressure washing the unit will void the warranty.*** Performing this small amount of maintenance will keep your fan unit running as efficiently as when it was brand new.

### Bi-annually

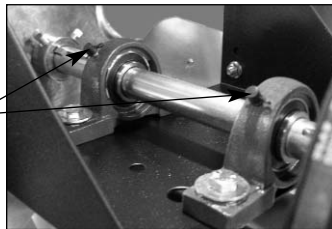


### Clean motor, fan blade and guards.

- Disconnect power.
- Use an air hose to remove dust.
- Use a damp cloth to remove grime and grease.
- ***Pressure washing will void the warranty.***

### 7000 hours

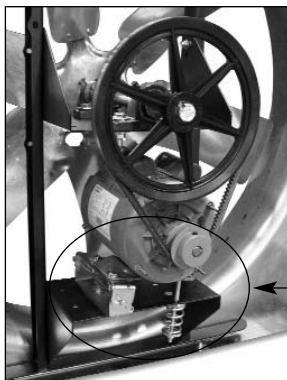
Grease zerks



### Grease the pillow block bearings.

- Use a grease gun and lithium-based / Shell #2 grease.
- Insert 4 grams into each grease zerk every 7000 hours of run time.
- ***Do not overgrease.***

### Annually



### Check belt tension (MOB36612-2 and MOB4861-2).

- Correct adjustment is 3/4" deflection at 10 lbs of force.
- Belt tension is adjusted automatically by the assembly. Over time, the belt will become worn and the tensioner will no longer be able to pull the belt tight enough. When this happens, the belt will need to be replaced.

*Please see page 6 for specific MOB42634-2 instructions.*

Belt tensioner assembly

## Symptom

## Possible causes

## Corrective action

### Fan not operating

1. Ensure you have power
2. Ensure wiring is done properly
3. Blown fuse or tripped breaker
4. Fan blade contacting fan housing
5. Fan control defective
6. Motor defective

1. Plug fan in
2. Ensure wiring is correct
3. Replace fuse or reset breaker
4. Realign fan blade in fan housing
5. Repair or replace control
6. Repair or replace motor

### Fan operating - insufficient airflow

1. Guard dirty
2. Incorrect belt tension

1. Clean guard
2. See Maintenance Table - Belt tension

### Excessive fan noise

1. Fan blade contacting fan housing
2. Motor bearing defective

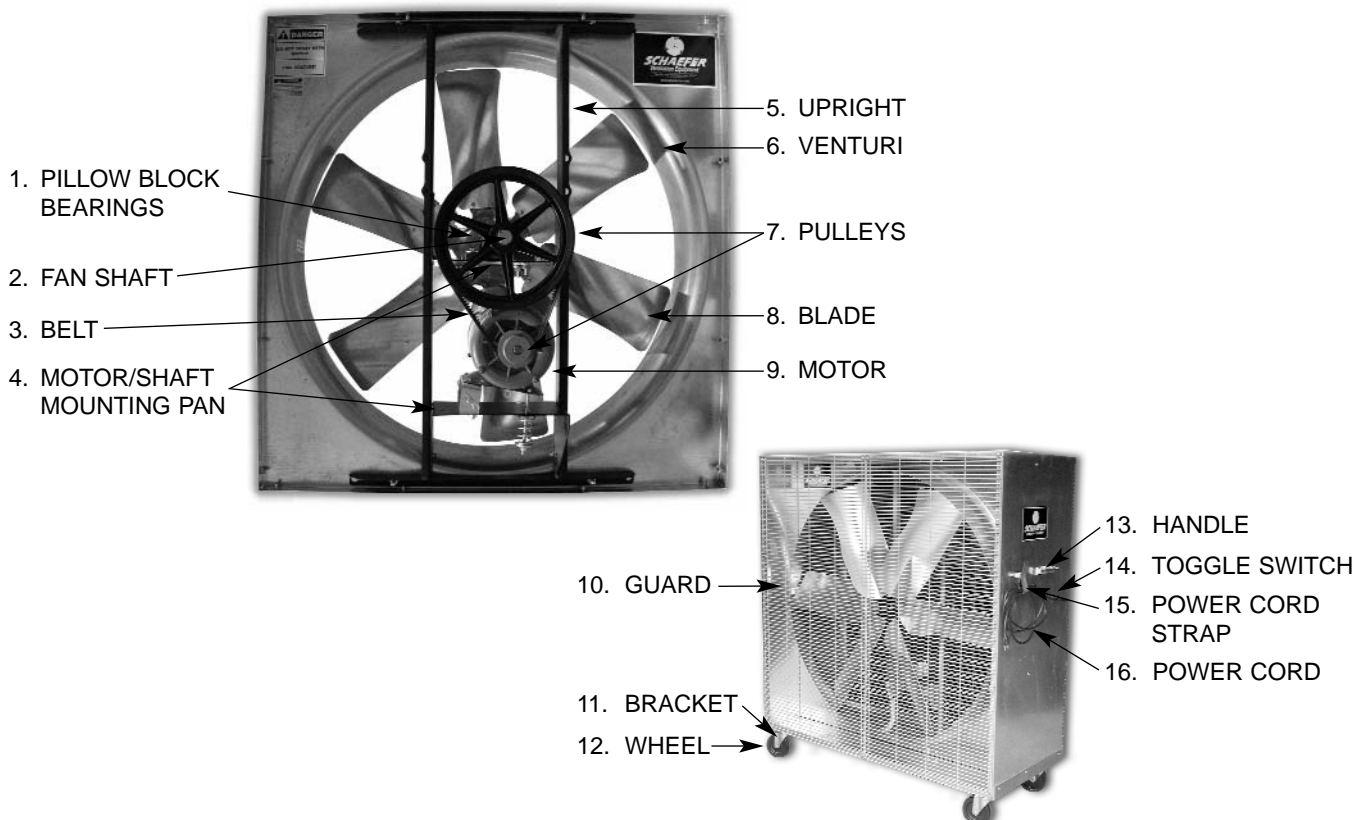
1. Realign fan blade in fan housing
2. Repair or replace motor

### Excessive vibration

1. Motor loose in mount
2. Fan blade damaged
3. Motor shaft bent
4. Fan shaft bent
5. Pillow block bearings defective

1. Tighten fasteners
2. Replace fan blade
3. Repair or replace motor
4. Replace fan shaft
5. Replace pillow block bearings

## Parts Identification



## Parts List

### MOB36612-2 36" Mobile Box Fan, 6-wing, 1/2 HP, 2-speed

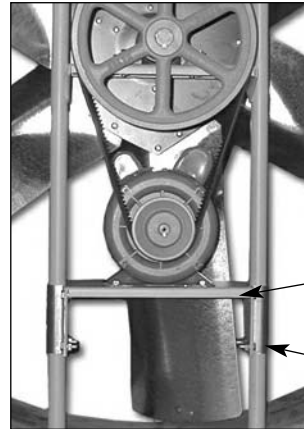
ITEM NUMBER	DESCRIPTION
1	PBBA205-16 Pillow Block Bearing
2	FS1X15.5 Fan Shaft, 1"x15 1/2"
3	AX-36 V-Belt, Cogged
4	MSMP-P Motor/Shaft Mounting Pan
5	36UPRIGHT Motor Mount Upright for 36"
6	36VENTURI 36" Orifice
7	AK-104C Fan Shaft Pulley, 1" Bore
7	AK-23 Motor Pulley, 5/8" Bore
8	GFB-366 36" Galvanized Fan Blade, 6-wing
9	CS202 Motor, 1/2 HP, 115V, 2-speed
10	36FGO-P 36" Guard
11	BFWB Box Fan Wheel Bracket
12	WC-CASTERLGLK Large Locking Caster, 5"x1 1/4"
12	WC-CASTER5 Large Caster, Non-locking, 5"
13	0HANDLE Handle
14	TOGGLESWITCH Toggle Switch
15	FHS-ST5 12" Blue Velcro Strap
16	WC-POWERCORD 9' Power Cord

### MOB4861-2 48" Mobile Box Fan, 6-wing, 1 HP, 2-speed

ITEM NUMBER	DESCRIPTION
1	PBBA205-16 Pillow Block Bearing
2	FS1X15.5 Fan Shaft, 1"x15 1/2"
3	AX-41 V-Belt, Cogged
4	MSMP-P Motor/Shaft Mounting Pan
5	48UPRIGHT Motor Mount Upright for 48"
6	48VENTURI 48" Orifice
7	AK-104C Fan Shaft Pulley, 1" Bore
7	AK-20 Motor Pulley, 5/8" Bore
8	GFB-486 48" Galvanized Fan Blade, 6-wing
9	CS596 Motor, 1 HP, 115V, 2-speed
10	48FGO-P 48" Guard
11	BFWB Box Fan Wheel Bracket
12	WC-CASTERLGLK Large Locking Caster, 5"x1 1/4"
12	WC-CASTER5 Large Caster, Non-locking, 5"
13	0HANDLE Handle
14	TOGGLESWITCH Toggle Switch
15	FHS-ST5 12" Blue Velcro Strap
16	WC-POWERCORD 9' Power Cord

### MOB42634-2 42" Mobile Box Fan, 6-wing, 3/4 HP, 2-speed

ITEM NUMBER	DESCRIPTION
1	PBBA205-16 Pillow Block Bearing
2	FS1X15.5 Fan Shaft, 1"x15 1/2"
3	AX-42 V-Belt, Cogged
4a	P-MM Universal Motor Mount Plate
4b	UBRACKET Universal U-Bracket
5	42UPRIGHT Motor Mount Upright for 42"
6	42VENTURI 42" Orifice
7	AK-104C Fan Shaft Pulley, 1" Bore
7	AK-21 Motor Pulley, 5/8" Bore
8	GFB-426 42" Galvanized Fan Blade, 6-wing
9	CS342 Motor, 3/4 HP, 115V, 2-speed
10	42FGO-P 42" Guard
11	BFWB Box Fan Wheel Bracket
12	WC-CASTERLGLK Large Locking Caster, 5"x1 1/4"
12	WC-CASTER5 Large Caster, Non-locking, 5"
13	0HANDLE Handle
14	TOGGLESWITCH Toggle Switch
15	FHS-ST5 12" Blue Velcro Strap
16	WC-POWERCORD 9' Power Cord



4a. UNIVERSAL MOTOR MOUNT PLATE

4b. U-BRACKET

The MOB42634-2 does not utilize 4. Motor/Shaft Mounting Pan (MSMP-P). Instead, it uses the two parts listed above. Follow the annual maintenance instructions below to adjust the belt tension.

#### Annually

#### **Check belt tension (MOB42634-2).**

- Correct adjustment is 3/4" deflection at 10 lbs of force.
- Adjust as needed by raising or lowering the motor mount plate. Follow these steps:
  1. Loosen the U-brackets.
  2. Raise or lower the motor mount plate as needed.
  3. Re-tighten the U-brackets.

**Support Information**

Using this equipment for any other purpose than it was intended or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive safety, setup and operation, maintenance, troubleshooting, parts listing and warranty information. The Table of Contents provides a convenient overview of the information in this manual.

If a problem should arise, your Schaefer dealer can supply the necessary information to help you.

**Dealer and Product Information**

Dealer's Name	_____
Dealer's Address	_____ _____
Dealer's Phone	_____
Date of Purchase	_____
Model Number	_____

**Ordering Replacement Parts**

To order replacement parts, contact the dealer from whom you purchased your Schaefer product. If you do not have that information, please call Schaefer Ventilation Equipment at 800.779.3267 to locate a dealer near you.

***Keep this manual in a clean, dry place for future reference.***

## Warranty

Schaefer Ventilation Equipment, LLC. warrants to the original purchaser that our products which prove to be defective in material or workmanship within one year (unless otherwise specified) from date of purchase will be repaired or replaced at the option of Schaefer Ventilation Equipment, LLC. F.O.B. Sauk Rapids, Minnesota.

### What is Not Covered By The Warranty

*The warranty does not cover:*

- (1) Installations not made in accordance with installation instructions;
- (2) Where the operation of the product varies substantially from our operating instructions;
- (3) Malfunctions resulting from misuse, negligence, alteration, accident or lack of performance of required maintenance;
- (4) Loss of time, inconvenience, loss of use of the product, or other consequential damages;
- (5) Removal of any manufacturer nameplate.

The above constitutes our sole warranty.

THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

**Products with warranty periods that exceed our standard one-year warranty are listed below. These products are subject to all other provisions as stated in The Schaefer Warranty.**

25 Years	Poly Housings.
15 Years	Fiberglass Housings.
10 Years	HotZone® IRLens™ Ceramic Emitters for Gas Units.
5 Years	Schaefer GQ Tube Heater Combustion and Heat Exchanger Tubes.
2 Years	Certain Manual, Variable Speed Controls and PC Compatible Controls.
2 Years	Schaefer GQ Tube Heater Burner Controls.
1 Year	Schaefer K-Series, 2-Stage, Compact Heater and the Stainless Steel Tube Heaters, Tansun* and Zubri Heaters.

**Products with warranty periods less than the stated one-year warranty are listed below. These products are subject to all other provisions as stated in The Schaefer Warranty.**

120 Days	HotZone® IRLens™ Elements for Electric Units.
180 Days	*Tansun Heater Lamp/Bulb.
180 Days	AWC-1500 Lamp.

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