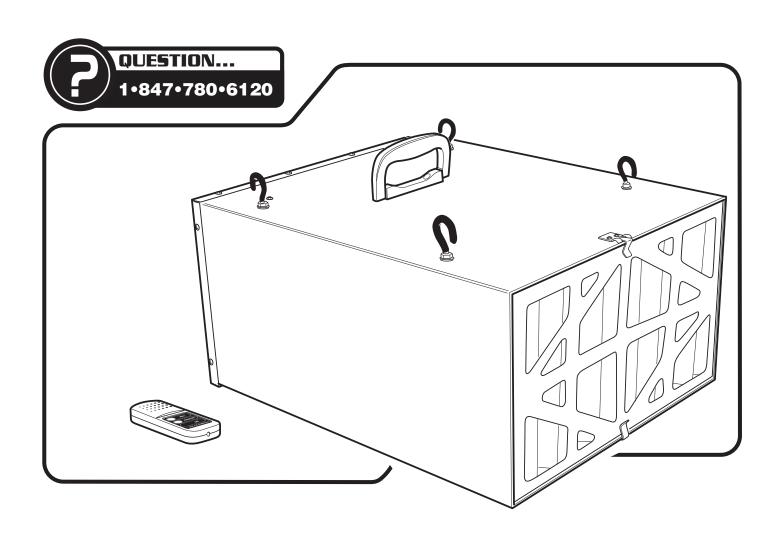
# **Owner's Manual**

# POMETTEC.

# **AIR FILTRATION SYSTEM**







You will need this manual for safety instructions, operating procedures, and warranty. Put it and the original sales invoice in a safe, dry place for future reference.

# TABLE OF CONTENTS SECTION PAGE SAFETY RULES 1 ASSEMBLY 2

Unpacking Installation Power Source Grounding Instructions Extension Cords

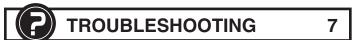


ON/SPEED Control Filtration Timing To Turn the Unit OFF



5

Changing the Filters
Fuse Replacement
Remote Control Battery Replacement







# PRODUCT SPECIFICATIONS

Horsepower (Maximum Developed)1/6 HP
Voltage
Hertz
Controls Manual or Remote Control
Number of Speeds
Air Flow (CFM)
Outer Filter
Inner Filter
Filtration Timing Auto Off, 1 HR, 2 HR, 4HR
Impeller
Sound Rating @ 3 Feet
Medium Speed 67dB
Low Speed 62dB

# MOTOR SPECIFICATIONS

This air filtration system is supplied with a 1/6 HP motor installed. The 120 Volt AC universal motor has the following specifications:

Horsepower (Maximum Developed)	1/6 HP
Voltage	120
Hertz	60

## **GENERAL SAFETY RULES**





For your own safety, read and understand all warnings and operating instructions before using any tool or equipment.

# **AWARNING**

Some dust created by operation of power tool contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. To reduce your exposure to these chemicals, work in a well ventilated area and work with approved safety equipment. Always wear OSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

# **WARNING**

Failure to follow these rules may result in serious personal injury. Remember that being careless for even a fraction of a second can result in severe personal injury.

#### **WORK PREPARATION**

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of the tool.
- Nonslip protective footwear is recommended. Wear protective hair covering to contain long hair.
- Wear eye and hearing protection. Always use safety glasses. Eye protection equipment should comply with ANSI Z87.1 standards. Hearing equipment should comply with ANSI S3.19 standards.
- · Wear face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

#### **WORK AREA PREPARATION**

- Keep work area clean. Cluttered work areas and benches invite accidents.
- Work area should be properly lighted.
- Do not use the machine in a dangerous environment.
   The use of power tools in damp or wet locations or in rain can cause shock or electrocution.
- Three-prong plug should be plugged directly into properly grounded, three-prong receptacle.
- Use the proper extension cord. Make sure your extension cord is in good condition. It should have grounding prong and should be of the correct gauge.
- Keep children and visitors away. Your shop is a potentially dangerous environment. Children and visitors can be injured.
- Make your workshop childproof with padlocks, master switches or remove switch keys to prevent any unintentional use of power tools.

• It should have a grounding prong and should be of the correct gauge.

#### **TOOL MAINTENANCE**

- Turn the machine "OFF", and disconnect the machine from the power source prior to inspection.
- Maintain all tools and machines in peak condition. Keep tools sharp and clean for best and safest performance.
- Follow instructions for lubricating and changing accessories.
- Check for damaged parts. Check for alignment of moving parts, binding, breakage, mounting and any other condition that may affect tool's operation.
- Poorly maintained tools and machines can further damage the tool or machine and/or cause injury.
- A guard or any other part that is damaged should be repaired or replaced. Do not perform makeshift repairs.

#### **TOOL OPERATION**

- Avoid accidental start-up. Make sure that the tool is in the "OFF" position before plugging in.
- Use the right tool for your job. Do not force your tool or attachment to do a job for which it was not designed.
- · Disconnect tool when changing parts.
- Don't force the workpiece on the machine. Damage to the machine and/or injury may result.
- Never leave tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
- Do not overreach. Loss of balance can make you fall into a working machine, causing injury.
- Never stand on tool. Injury could occur if the tool tips, or if you accidentally contact the cutting tool.
- Know your tool. Learn the tool's operation, application and specific limitations before using it.
- Use a proper extension cord of the correct gauge. Your extension cord should have a grounding prong, and should be in good condition.
- Handle workpiece correctly. Keep hands away from moving parts.
- Turn tool off if it jams.
- Always feed workpiece against the direction of the sanding rotation. To maintain control, properly support long or wide work-pieces.

# **A**CAUTION

Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.

# **A**WARNING

Do not attempt to operate tool until it is completely assembled according to the instructions.

SAVE ALL WARNINGS AND INSTRUCTIONS
FOR FUTURE REFERENCE





# SPECIFIC SAFETY RULES FOR AIR FILTRATION SYSTEM

Be aware of general power tool safety. Make sure all the safety rules are understood.

- Disconnect the machine from power source whenever adjusting or replacing any parts.
- Do not plug air filtration system in unless switch is in the "OFF" position.
- Keep hands away from all moving parts.
- Wear eye protection or face shield during operation.
- Make sure all mobile parts move freely and are free from interference.
- If ceiling mounted, bottom of air filtration system must be at least 7 feet above the floor.
- If ceiling mounted, mounts must be anchored to building structure which will support a minimum of at least 100 pounds. Never mount to surfaces such as dry wall or false ceiling grinds, etc.

- To reduce the risk of electrical shock, do not expose air filtration to water or rain.
- Never duct a machine directly into the air filtration system.
- Do not use air filtration system without filters in place.
- To avoid a potentially dangerous situation, do not use this machine to filter flammable vapors or smoke.
   This air filtration system is designed and intended for the filtration of airborne wood dust only. It is neither designed nor intended for any other purpose whatsoever.
- Use the machine for filtering wood dust only. Not for use filtering sheet rock dust, silica, lead paint dust, asbestos, biohazards, smoke, toxic fumes, spray paint or flammable liquids.
- Failure to follow these rules may result in serious personal injury/or property damage.

# 2 (2)

#### **ASSEMBLY**

#### **UNPACKING**

#### Refer to Figure 1

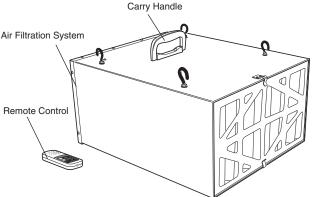
The air filtration system is shipped assembled and requires minimum assembly and installation.

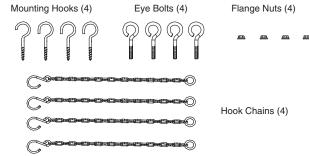
- Examine shipping carton for freight damage before opening. If shipping carton is damaged file a claim with the carrier immediately.
- Carefully remove all contents from shipping carton. The shipping carton contains:
  - 1 Air Filtration System
  - 1 Remote Control (Batteries Required: Two AA batteries, Not included)
  - 4 Mounting Hooks
  - 4 Eye Bolts
  - 4 Flange Nuts
  - 4 Hook Chains
  - 1 Owner's Manual (not shown)

**NOTE:** Contact the customer service center if any of these parts are missing.

**NOTE:** After unit is assembled dispose of all packaging material in an environmentally safe way.









#### **INSTALLATION**

#### Refer to Figure 1 to 4

This air filtration system is specifically designed to circulate and filter non-metallic dust, which is generated throughout the work area. The unit can be located on a work bench or hung from an overhead support. When selecting a location ensure the power source is easy to access. Use the carry handle when moving the unit.

**IMPORTANT**: When determining a location for the air filtration system, always select a location where the air flow is unrestricted. Locate the unit away from corners and any heating or cooling vents.

# **A**CAUTION

Clamp the air filtration system in place if using on sawhorses or a workbench.

#### **Work Bench Location**

- Place the air filtration system onto a work bench, ensure the air flow is not restricted and the unit is away from corners and any heating or cooling vents.
- Plug the power cord into the correct receptacle. (Refer to *Power Source* paragraph in this section of the manual.)

#### **Hanging Mount**

#### Tools required for assembly:

No. 2 Phillips screwdriver (not supplied)

10 mm wrench (not supplied)

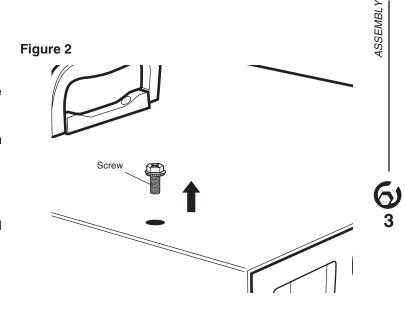
**NOTE:** Hang the unit at least 7 Feet above floor level and away from corners and any heating or cooling vents.

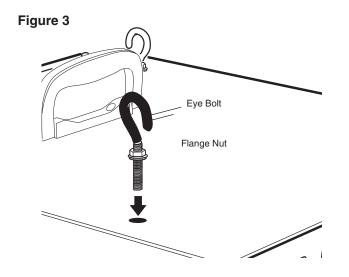
- Remove four screws from the cabinet top (Figure 2).
- Thread the flange nut almost all the way up on to the eye bolt (Figure 3).
- Thread the eye bolt into the hole on the cabinet top.
   Tighten flange nut against the cabinet top. Hold the eye bolt so it does not spin while tightening the flange nut.
- · Repeat for remaining three eye bolts.
- Anchor the four mounting screws into the building's ceiling joist. Never mount to surface such as dry wall or false ceiling grids, etc (Figure 4).

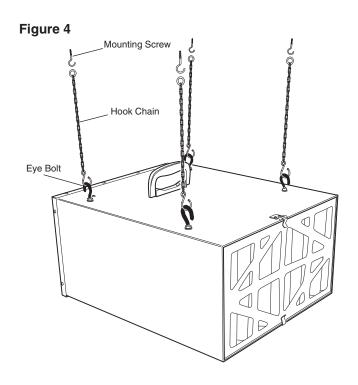
# **A**CAUTION

Mounting hooks must be anchored to a building structure which can support a minimum of 100 pounds. Never mount to surface such as dry wall or false ceiling grids, etc.

- Place a hook chain on each mounting screw (Figure 4).
- Attach each eye bolt to the hook chain (Figure 4).
- Ensure the unit is level horizontally. Adjust if needed.
- Plug the power cord into the correct receptacle. (Refer to *Power Source* paragraph in this section of the manual.)







#### **POWER SOURCE**



Do not connect to the power source until the machine is completely assembled.

The machine is wired for 120 volts, 60 HZ alternating current. Before connecting the machine to the power source, make sure the switch is in the "OFF" position. Running the unit on voltages which are not within range may cause overheating and motor burn-out. Heavy loads require that voltage at motor terminals be no less than the voltage specified on nameplate.

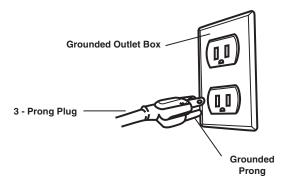
#### GROUNDING INSTRUCTIONS



Improper connection of equipment grounding conductor can result in the risk of electrical shock.

- · The machine should be grounded while in use to protect operator from electrical shock.
- In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an escape wire for the electric current.
- This machine is equipped with an approved 3-conductor cord rated at 120V and a 3-prong grounding type plug for your protection against shock hazards.
- Grounding plug should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle, as shown (Figure 5).
- The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- · Check with a qualified electrician or service personnel if these instructions are not completely understood or if in doubt as to whether the tool is properly grounded.
- Do not modify plug provided. If it will not fit in outlet, have a proper outlet installed by a qualified electrician. Use only 3-wire extension cords, that have 3-prong grounding type plugs and matching 3-conductor receptacles that accept the machine's plug, as show in Figure 6.

Figure 5 - 3-Prong Receptacle

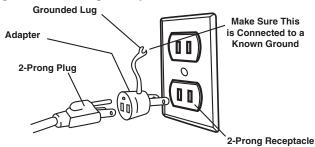


Do not permit fingers to touch the terminals of plug when installing or removing from outlet.

- Inspect tool cords periodically, and if damaged, have it repaired by an authorized service facility.
- The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the green (or green and yellow) wire to a live terminal.
- A temporary 3-prong to 2-prong grounding adapter (see Figure 6) may be used to connect this plug to a matching 2-conductor receptacle as shown in figure 6.

The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician.

Figure 6 - 2-Prong Receptacle



In Canada, the use of temporary adapter is not permitted by the Canadian Electric Code. Where permitted, the rigid green tab or terminal on the side of the adapter must be securely connected to a permanent electrical ground such as a properly grounded water pipe, a properly grounded outlet box or a properly grounded wire system.

 Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure proper grounding means that it must be tested by a qualified electrician.

#### **EXTENSION CORDS**

Use proper extension cords. Make sure the extension cord is in good condition. Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug. When using an extension cord, make sure to use one heavy enough to carry the current of the machine. An undersized cord will cause a drop in the voltage, resulting in loss of power and overheating. Use the table to determine the minimum wire size (A.W.G.) extension cord.

#### **Extension Cord Length**



NOTE: Using extension cords over 25 ft. long is not recommended.

### **OPERATION**



#### Refer to Figure 7 to 8

This air filtration system can be controlled using the remote control (Figure 7) or the control panel (Figure 8) located at the rear of the unit.

**NOTE:** The filtration timing can ONLY be controlled with the remote.

#### ON/SPEED CONTROL

Press the ON/SPEED button on the remote control or the control panel. When turned on the air filtration system will be in the LOW speed. The LOW LED light on the control panel will illuminate. Press the ON/SPEED button to change speeds. The LOW, MID or HI LED light will illuminate to indicate the selected speed.

#### **FILTRATION TIMING**

**NOTE:** The filtration timing can ONLY be controlled with the remote.

The TIME button controls the timer setting. The 1 HR, 2 HR and 4HR LED lights on the control panel (Figure 8) will illuminate to show the filtration timing length.

- Press the TIME button once and the 1HR LED light will illuminate. The machine will operate for 1 hour then turn off
- Press the TIME button twice and the 2HR LED light will illuminate. The machine will operate for 2 hours then turn off.
- Press the TIME button three times and the 4HR LED light will illuminate. The machine will operate for 4 hours then turn off.

**NOTE:** If no filtration timing LED light is illuminated the air filtration system will operate until the unit is turned off.

#### TO TURN THE UNIT OFF

Press the OFF button on the remote control or the control panel to turn the unit off.

#### Figure 7

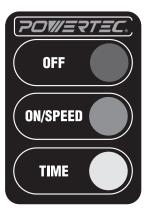


Figure 8





#### MAINTENANCE



Disconnect the machine from power source whenever adjusting or replacing any parts.

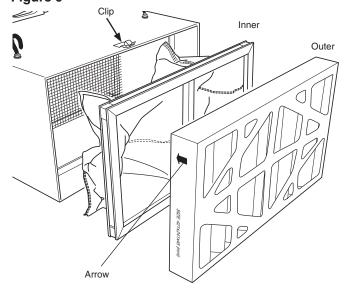
#### **CHANGING THE FILTERS**

#### Refer to Figure 9

The inner and outer filters should be replaced and / or cleaned depending on the amount of usage and the environment of your workshop. Clogged filters will reduce the amount of air circulation.

- Lift up on the clips located at the top and bottom of the cabinet and remove the outer filter.
- Pull the inner filter from the cabinet. The inner filter can be blown out with air or washed to extend its life. The filter should be completely dry before reinstalling into the unit.
- Insert the new or cleaned inner filter and then install the new outer filter. The arrow on the outer filter indicates the air flow direction, ensure the filter is positioned properly.

#### Figure 9



#### **FUSE REPLACEMENT**

The fuse/fuse cap is located on the rear of the unit in the control panel. Replace the fuse if needed.

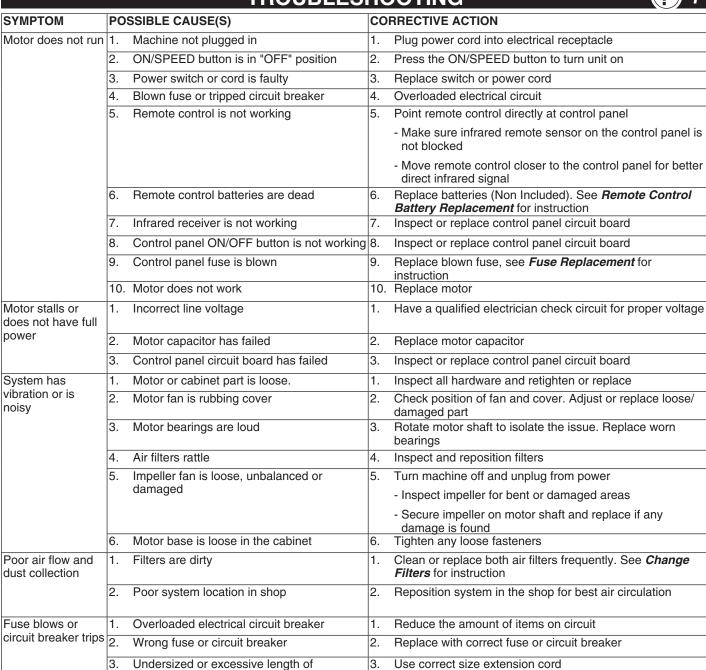
- Turn the fuse cap counterclockwise with a Phillips head screwdriver. Pull the fuse cap and fuse away from the control panel.
- Insert a new fuse (UL250V2A) into the fuse cap and place the fuse cap into the control panel. Turn the fuse cap clockwise to secure into place.

#### REMOTE CONTROL BATTERY REPLACEMENT

- Remove the battery compartment cover on the remote control.
- Replace the batteries. Ensure the batteries are oriented as shown inside the battery compartment. Use AA batteries (Not Included)
- Replace the battery compartment cover.

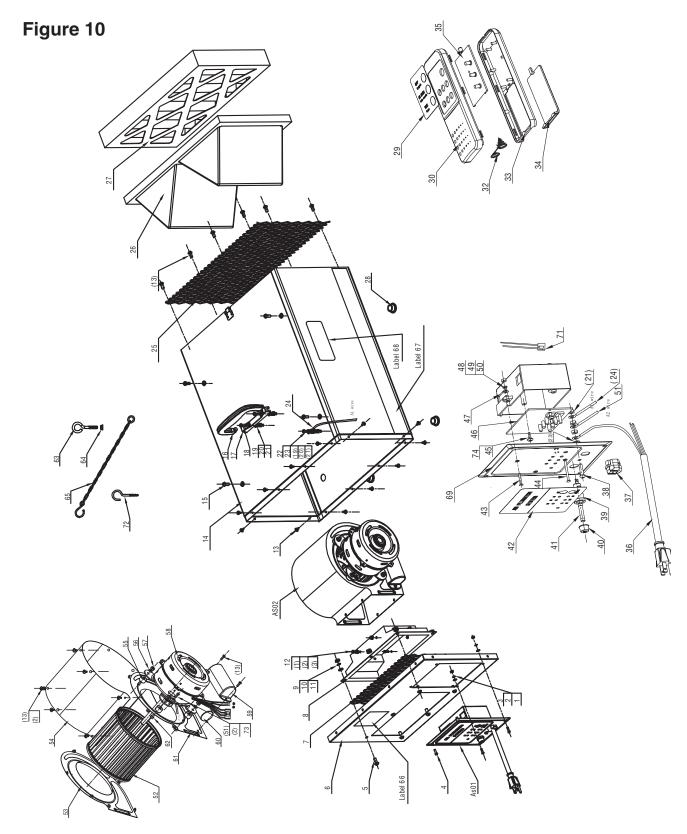
**NOTE:** When disposing batteries, think of the protection of the environment. Check with your local authorities for an environmentally safe way for battery disposal.

## **TROUBLESHOOTING**



extension cord

## **AIR FILTRATION SYSTEM PARTS ILLUSTRATION**



Qty 

# AIR FILTRATION SYSTEM PARTS LIST



		AIR FIL	IRAIIO	N 5	<b>1511</b>	INI PA	RTS LIST	
Key No	o. Part No.	Description	Specification	Qty	Key N	o. Part No	. Description	Specification
1	AF4000001	Hex Nut	M4	13	61	AF4000061	Fan Housing Cover-R	
2	AF4000002	Flat Washer	Ø4	13	62	AF4000062	Hex Cap Screw	M5X25
3	AF4000003	Lock Washer	Ø4	13	63	AF4000063	Eye Bolt	
4	AF4000004	Pan Head Screw	M4X12	5	64	AF4000064	Flange Nut	M6
5	AF4000005	Pan Head Screw	M6X15	6	65	AF4000065	Hook Chain	
6	AF4000006	Air Box Front Cover		1	66	AF4000066	Wire Nut 18AWG	
7	AF4000007	Grid Plate	266X140X1	1	67	AF4000067	Stripe Label	
8	AF4000008	Air Guide		1	68	AF4000068	Logo Label	
9	AF4000009	Hex Nut	M6	6	69	AF4000069	Switch Box Cover	
10	AF4000010	Flat Washer	Ø6	6	70	AF4000070	Lock Wire Nut	P2S
11	AF4000011	Lock Washer	Ø6	6	71	AF4000071	Lock Wiring Nut	
12	AF4000012	Socket Head Cap Screw	M4X12	8	72	AF4000072	Hook Screw	
13	AF4000013	Self Tapping Screw	ST4X10	10	73	AF4000073	Tooth Lock Washer	Ø4
14	AF4000014	Air Box	ST4.8×10L	1	74	AF4000074	Insulation Washer	Ø3 #4170
15	AF4000015	Pan Head Screw	M6X12	4				
16	AF4000016	Handle	M6 x 14	1				
17	PAF400017	Handle Bracket		1				
18	AF4000018	Pan Head Screw	M5X16	2				
19	AF4000019	Flat Washer	Ø5	3				
20	AF4000020	Lock Washer	Ø5	3				
21	AF4000021	Hex Nut	M5	6				
22	AF4000022	Pan Head Screw	M5X12	1				
23	AF4000023	Tooth Lock Washer	Ø5	2				
24	AF4000024	Wire	18AWG	1				
25	AF4000025	Grid Plate	251X428	1				
26	75006	Inner Pocket Filter	421x241x160	1				
27	75007	Electostatic Outer Filter	421x241x45	1				
28	AF4000028	Rubber Foot	Ø3	4				
29	AF4000029	Remote Control Label		1				
30	AF4000030	Remote Control Top Cover		1				
32	AF4000032	Spring	Ø5.3xØ10	1				
33	AF4000033	Remote Control Bottom Cov	/er	1				
34	AF4000034	Battery Cover		1				
35	AF4000035	Remote Control PCB		1				
36	AF4000036	Power Cord		1				
37	AF4000037	Strain Relief	6P-4	1				
38	AF4000038	Pan Head Screw		1				
39	AF4000039	Fuse Holder	M5X20	1				
40	AF4000040	Fuse Holder Cap						
		•		1				
41	75013	Fuse	UL250V2A	1				
42	AF4000042	Control Panel Label		1				
43	AF4000043	Flat Head Screw	M3X30	2				
45	AF4000044	Self Tapping Screw	ST4X14	2				
46	AF4000045	Printed Circuit Board		2				
47	AF4000046	Switch Box		1				
48	AF4000047	Flat Washer	Ø3* 6	4				
49	AF4000048	Lock Washer	Ø3	4				
50	AF4000049	Hex Nut	M3	4				
51	AF4000050	Wire		1				
52	AF4000051	Fan Wheel		1				
53	AF4000052	Fan Housing Cover-L		1				
54	AF4000053	Fan housing Cover-M		1				
55	AF4000054	Rubber Spacer		4				
56	AF4000055	Large Washer	5	4				
57	AF4000056	Nylon Insert Lock Nut	M5	4				
58	75010	Motor		1				
	AF4000059	Capacitor Cover		1	I			
59	AI 4000039	Capacito. Coro.		•	l			





#### **WARRANTY**

Thank you for investing in a **POWERTEC** product. This product has been designed and manufactured to meet high quality standards and is guaranteed for domestic use against defects in workmanship or material for a period of 12 months from the date of purchase. This guarantee does not affect your statutory rights.

#### LIMITED 1 YEAR WARRANTY AND 30-DAY SATISFACTION GUARANTEE POLICY



**POWERTEC** products are designed and manufactured by **Southern Technologies LLC**. All warranty communications should be directed to **Southern Technologies LLC** by calling 847-780-6120, 9 AM to 5 PM, Monday through Friday, US Central Time.

#### **30- DAY SATISFACTION GUARANTEE POLICY**

During the first 30 days after the date of purchase, if you are dissatisfied with the performance of this *POWERTEC* tool for any reason, you may return the tool to the retailer from which it was purchased for a full refund or exchange. You must present proof of purchase and return all original equipment packaged with the original product. The replacement tool will be covered by the limited warranty for the balance of the one year warranty period.

#### **LIMITED ONE YEAR WARRANTY**

This warranty covers all defects in workmanship or materials in this *POWERTEC* tool for a one year period from the date of purchase. This warranty is specific to this tool. **Southern Technologies**, **LLC** reserves the right to repair or replace the defective tool, at its discretion.

#### **HOW TO OBTAIN SERVICE**

To obtain service for this POWERTEC tool you must return it, freight prepaid, to POWERTEC. You may call 847-780-6120 for more information. When requesting warranty service, you must present the proof of purchase documentation, which includes a date of purchase. POWERTEC will either repair or replace any defective part, at our option at no charge to you. The repaired or replacement unit will be covered by the same limited warranty for the balance of one year warranty period.

#### WHAT IS NOT COVERED

This warranty applies to the original purchaser at retailer and may not be transferred.

This warranty does not cover consumable items such as saw blades, knives, belts, discs, cooling blocks and sleeves.

This warranty does not cover required service and part replacement resulting from normal wear and tear, including accessory wear.

This warranty does not cover any malfunction, failure or defect resulting from:

- 1) misuse, abuse, neglect and mishandling not in accordance with the owner's manual.
- 2) damage due to accidents, natural disasters, power outage, or power overload.
- 3) commercial or rental use.
- 4) alteration, modification or repair performed by persons not recommended by **POWERTEC**.

#### **DISCLAIMER**

To the extent permitted by applicable law, all implied warranties, including warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, are disclaimed. Any implied warranties, that cannot be disclaimed under state law are limited to one year from the date of purchase. **Southern Technologies LLC**. is not responsible for direct, indirect, incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Southern Technologies LLC., makes no warranties, representations, or promises as to the quality or performance of its products other than those specifically stated in this warranty.

