



**ACE INDUSTRIAL PRODUCTS**

**PORTABLE AIR CLEANER**

**INSTRUCTION & MAINTENANCE MANUAL**

**MODEL #73-600**

**CAUTION:** This device is powered by rotating electrical machinery !! Careless or improper use may result in personal injury. Read the Safety Precautions and warnings contained within prior to operating this machine.

**ACE INDUSTRIAL PRODUCTS**

A Division Of:

**Associated Equipment Corporation**

5043 Farlin Avenue  
St. Louis, MO 63115  
PHONE 314-385-5178  
FAX 314-385-3254

# READ AND SAVE THESE INSTRUCTIONS.

## SAFETY WARNINGS & CAUTIONS

1. FAILURE TO OBSERVE THE FOLLOWING PRECAUTIONS COULD RESULT IN SERIOUS INJURY, INCLUDING DEATH IN EXTREME CASES. SAVE THESE INSTRUCTIONS.

### WARNING: (EXPLOSION HAZARD)

This unit contains parts which can arc or spark during normal operation. Do not use in areas contaminated by volatile or flammable materials as these sparks may ignite the contaminants and cause a dangerous explosion.

### WARNING: (HARMFUL FUMES)

The filters used in this unit will remove solid particulate ONLY, and do not eliminate fumes and gases that may be a health hazard. Failure to observe the presence of such fumes could cause serious illness or death.

### CAUTION: (SHOCK HAZARD)

To insure continued protection against shock hazard, connect A.C. cord only to properly grounded outlets. Replace defective cords immediately. Don't expose to moisture or liquid as this could defeat the electrical insulation thus causing electrical shock.

### CAUTION: (STRONG VACUUM)

Care must be taken to avoid personal injury by not allowing hose inlet to contact any body area such as eyes, ears, mouth, etc.

### CAUTION: (LIFTING)

Improper lifting or handling of this unit could cause back injury. Follow the recommended method for lifting.

### CAUTION:

#### (AIR FLOW BLOCKAGE)

Since exhaust air leaves the end of this unit, caution should be observed not to position unit in such a way as to block the exhaust.

### MISCELLANEOUS CAUTIONS:

1. Use of any attachment not recommended or sold by the air cleaner manufacturer may result in risk of fire, electric shock, or injury to persons.

2. To reduce the risk of damage to the electric plug or cord, disconnect by pulling plug rather than cord when removing power from the air cleaner.

3. Make sure cord and hose are located so it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

4. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in risk of fire and electric shock.

If extension cord must be used, use only a grounded cord and follow these recommendations:

25 ft.	#12 AWG.
50 ft.	#10 AWG.
100 ft.	# 8 AWG.

5. Do not disassemble the air cleaner. Take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in risk of electric shock or fire.

## THEORY OF OPERATION

This unit is a portable air cleaner employing one thermally protected, high performance motor producing very high velocity air flow through the unit. Fine solid particulate material and smoke may be removed from the air by the filter media.

An initial spark trap collects large particles before they reach the prefilter. This trap further isolates the filters from sparks in the case of a welding operation.

Upon leaving the trap, the air is passed through pre-filters. These pre-filters are designed to catch the larger particles leaving the trap. These relatively inexpensive pre-filters prevents the more expensive main filter from becoming quickly clogged. The pre-filters may be changed several times before the main filter needs to be changed.

**ALL FACTORY FURNISHED FILTERS HAVE A U.L. CLASS II RATING AND USING ANY FILTERS OTHER THAN THOSE SUPPLIED FOR THIS UNIT IS NOT RECOMMENDED.**

Use of any product other than that recommended by the manufacturer will void the warranty.

The main (or final) filter may be selected from several grades available, depending upon the level of performance desired. All of these are high efficiency multi-flow filters which feature extended surface area for long life in high velocity filtration systems. See the Replacement Parts & Filters section toward the end of this manual for part numbers and filter efficiencies.

Selection of the filter best suited for the job should be discussed with a dealer or a factory representative.

A differential pressure gage is an integral part of the unit. When the filters become clogged, the gage will indicate an increase in differential pressure. At this point, the filters should be changed. Depending upon the application, the pre-filter can be changed several times before the main filter must be changed. Changing the prefilters regularly can extend the useful life of the final filter up to 50%.

## UNPACKING

Carefully inspect the unit for concealed damage that may have occurred during shipping and handling. If any damage is found, immediately contact the freight company. Make sure that there are no dents in the housing, as they will prevent the filters from sliding into the units smoothly.

## OPERATION

Your ACE Industrial Products machine is designed as a source capture device, i.e., it is intended to eliminate smoke and particulate at their point of origin. Keeping this in mind, the machine should be operated in the following manner:

Re-read the section on Safety Warnings & Cautions before proceeding any further.

1. Place the machine on a flat, level surface. Pick a location that will allow unrestricted flow of the exhaust air to the atmosphere.
2. For units with wheels or casters, lock the wheels or block the wheels.
3. Place the collection nozzle as close to the work as practical without interfering with the operator. Secure the nozzle if necessary.
4. Using the On/Off switch, turn the machine On. Should the motor not start, or should the machine make unusual noises, immediately turn the machine off and seek trained maintenance personnel. Do not continue to use the device.
5. Upon completion of the specific manufacturing or welding operation, turn the machine off. Continuous running of the machine will continue to remove particulates from the general environment and will cause premature clogging of the filters.
6. When the "filter clogged" light or the differential pressure gage (depending upon model) indicate that the filter(s) are clogged, turn the machine off and remove the power cord from its power source.

See the section on Installation and use the reverse process to remove the dirty filters. Re-install new filters and reconnect the machine to its power source.

## GENERAL MAINTENANCE

ONLY QUALIFIED SERVICE TECHNICIANS SHOULD MAKE REPAIRS TO THIS UNIT.

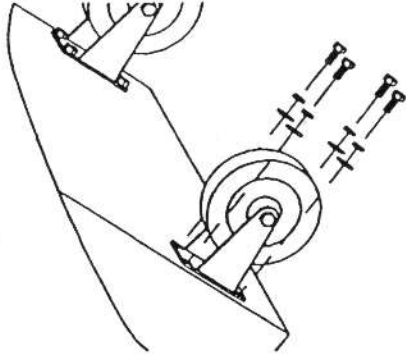
DO NOT REPLACE THESE MOTORS WITH MOTORS OTHER THAN THOSE RECOMMENDED BY THE MANUFACTURER.

## ASSEMBLY INSTRUCTIONS

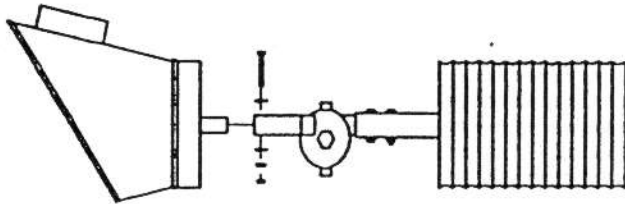
1. Remove the pre-filters, caster carton, and the hose nozzle carton from inside the unit. Latch the door closed and carefully lay the unit on its side.

2. Assemble the casters to the underside of the unit with the sixteen (16) 1/4" - 20 hex head bolts, lock washers and flat washers provided. Mount the swivel casters toward the vacuum gage end of the unit.

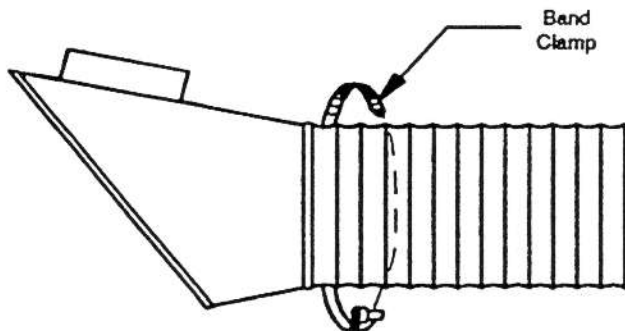
3. Turn the unit upright and lock the swivel casters.



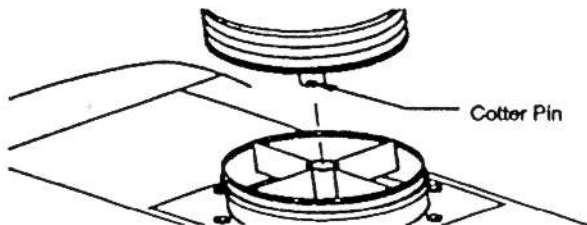
4. Assemble the nozzle to the arm using two 1/4" - 20 X 2" hex bolts, four flat washers, four lock washers, and four hex nuts. Make sure that the nozzle opening points down (toward the inside of the joint arc).



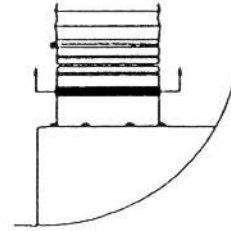
Slip the end of the hose over the nozzle and secure it in place with the supplied band clamp.



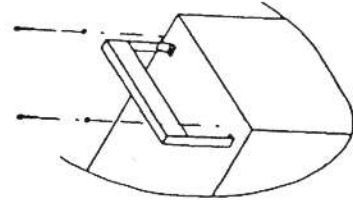
4. Mount the hose assembly to the unit. Using the cotter pin supplied, attach the shaft of the hose swivel from inside the unit.



Pull the swivel seal up from the hose mounting base to cover the gap between the swivel base and the hose swivel.

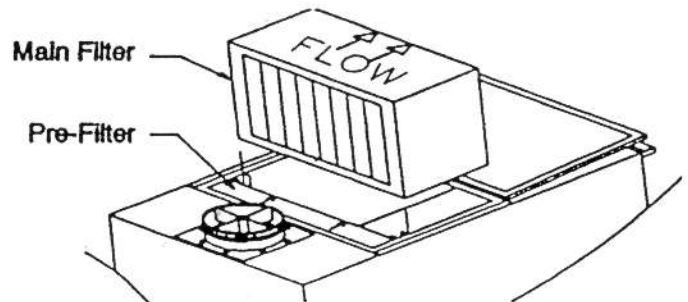


5. Assemble the handle to the end of the unit with the two (2) 1/4" - 20 hex bolts and lockwashers provided.



6. Install the filters (two pre-filters supplied with the unit plus the main filter sold separately).

**NOTE: THE FLOW DIRECTION ARROWS ON THE FILTER FRAMES. MAKE SURE THAT THE ARROWS POINT TOWARD THE BLOWER.**

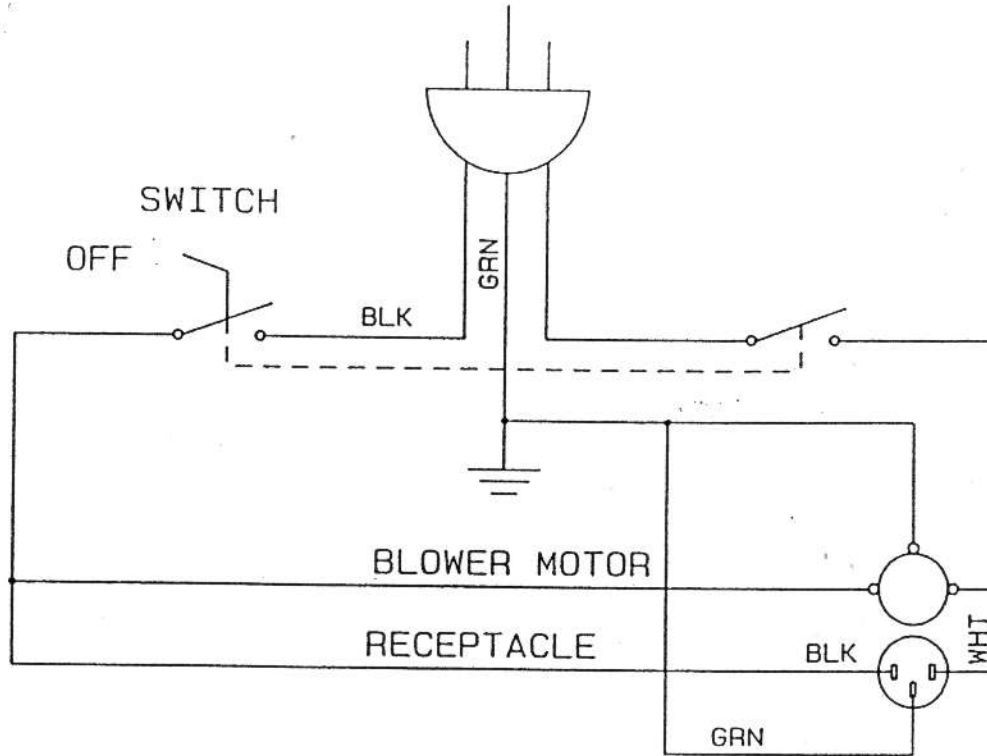


## DUAL ARM UNIT OPTION

To install the second arm, proceed as follows:

1. Remove the blank plate covering the second hole. Save the hardware.
2. Using the hardware removed in Step 1 above, install the second collar to the unit.
3. Mount the second arm in the same manner as was used to mount the first one.

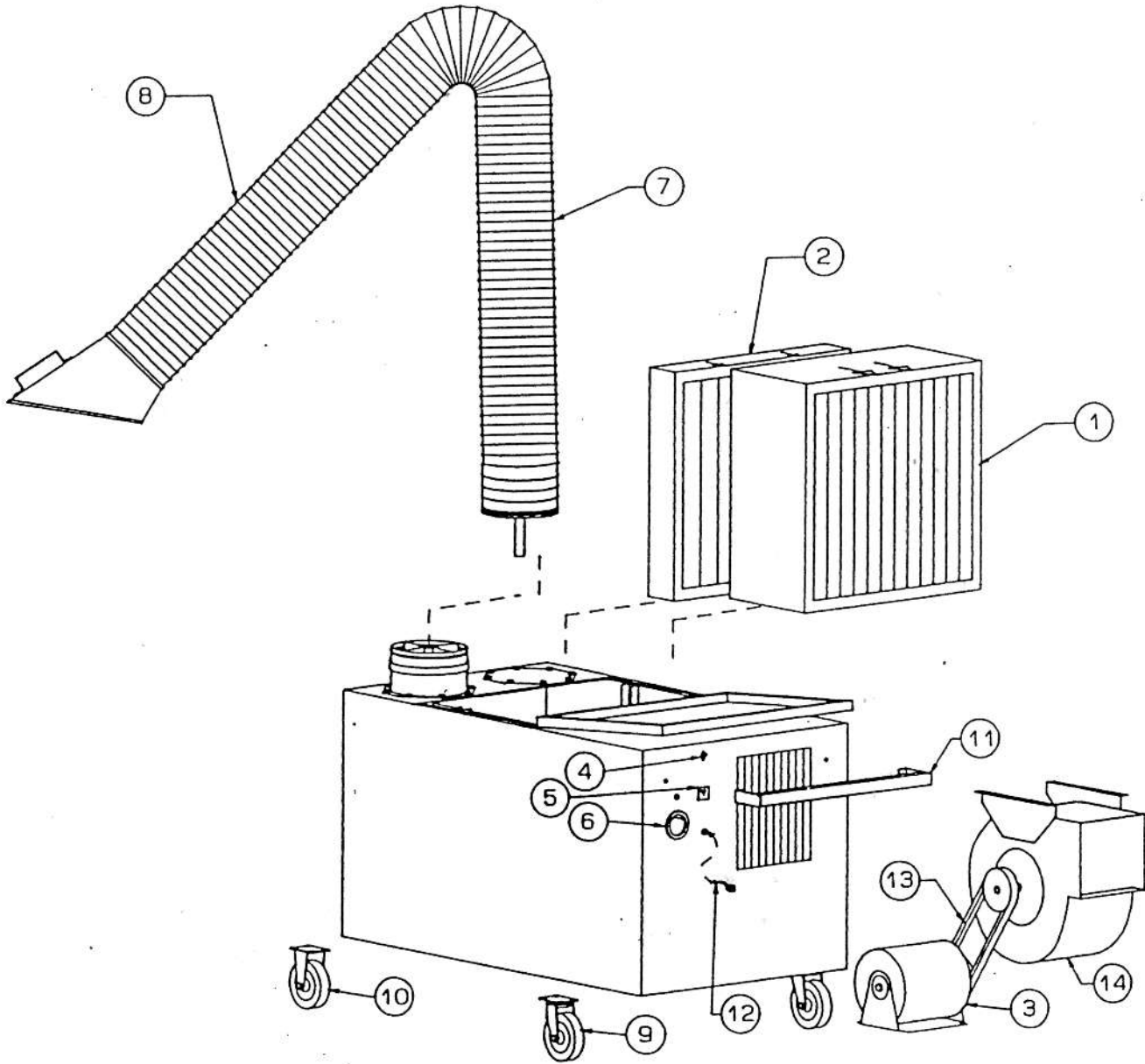
# SCHEMATIC WIRING DIAGRAM - MODEL #73-600



(SEE PAGE 6 FOR EXPLODED VIEW)

REPLACEMENT PARTS LIST			REPLACEMENT FILTER LIST		
ITEM NUMBER	DESCRIPTION	NUMBER	ITEM NUMBER	DESCRIPTION	NUMBER
3	MOTOR .....	65024	1.	MAIN FILTER (95% bag filter w/ frame)	91-993
4	POWER SOCKET .....	65025		MAIN FILTER (95% bag filter w/o frame)	91-994
5	POWER SWITCH .....	65026	2.	PRE FILTER (requires 2 pre filters)	91-989
6	VACUUM GAUGE .....	65027			
7	ARM ASSEMBLY - INCLUDES HOSE AND BASE .....	65028			
8	REPLACEMENT HOSE (HOSE ONLY) .....	65029			
9	SWIVEL CASTER (pkg. of 1) .....	65030			
10	FIXED CASTER (pkg. of 1) .....	65031			
11	HANDLE .....	65032			
12	POWER CORD .....	65033			
13	V-BELT .....	65034			
14	BLOWER ASSEMBLY .....	65035			

# MODEL #73-600 EXPLODED VIEW



## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>