# Air Cleaner 50-868



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# **GENERAL SAFETY RULES**

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. <u>Always use common sense</u> and exercise <u>caution</u> in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. **REMEMBER:** Your personal safety is your responsibility.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, **DO NOT** use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

Technical Service Manager Delta Machinery 4825 Highway 45 North Jackson, TN 38305 (IN CANADA: 505 SOUTHGATE DRIVE, GUELPH, ONTARIO N1H 6M7)

## **AWARNING** FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

1. FOR YOUR OWN SAFETY, READ AND UNDERSTAND THE INSTRUCTION MANUAL BEFORE OPERATING THE UNIT. Learn the unit's application and limitations as well as the specific hazards peculiar to it.

2. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.

3. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use this unit in damp or wet locations, or expose it to rain. Keep work area well-lighted.

- 4. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.
- 5. **DISCONNECT UNIT** before servicing.
- 6. CHECK DAMAGED PARTS. Before further use of the unit, properly repair or replace any part that is damaged.

# ADDITIONAL SAFETY RULES FOR AIR CLEANERS

- 1. **A DANGER** DO NOT USE THIS UNIT TO FILTER METAL DUST. Combining wood and metal dust can create an explosion or fire hazard. This unit is intended to filter non-explosive atmospheres only.
- 2 AWARNING WARNING: DUST GENERATED BY CERTAIN WOODS AND WOOD PRODUCTS CAN BE HAZ-ARDOUS TO YOUR HEALTH.
- 3. **AWARNING DO NOT USE THIS UNIT TO DISSIPATE FUMES OR SMOKE.** This air cleaner is intended for use where only dry airborne dust is present. Its use should be limited to non-explosive, non-metallic atmospheres.
- 4. DO NOT OPERATE THIS UNIT UNTIL IT IS COMPLETELY ASSEMBLED AND INSTALLED ACCORDING TO THE INSTRUCTIONS.
- 5. **OBTAIN ADVICE FROM YOUR SUPERVISOR, INSTRUCTOR, OR ANOTHER QUALIFIED PERSON** if you are not thoroughly familiar with the operation of this unit.
- 6. **FOLLOW ALL WIRING CODES** and recommended electrical connections.
- 7. DO NOT LIFT THIS UNIT BY THE POWER CORD. Do not use the power cord as a hanging device.
- 8. SECURELY ANCHOR THIS UNIT INTO A SUPPORTING STRUCTURE when suspending it from the ceiling. Always keep a minimum of 7 feet between the bottom of the unit and the floor surface to allow for sufficient head clearance. Use only chain rated for a minimum of 150 lb. working load to adequately hold the unit. Use steel S-Hooks that are at least 1/4" in diameter to suspend the unit from the ceiling. Lag-type bolts used to suspend the unit from the ceiling must be threaded at least 1-1/2" into supporting structural members.
- 9. SUPPORT THIS UNIT OR SECURELY CLAMP IT TO THE WORK SURFACE WHEN IT IS USED IN A PORTABLE APPLICATION to eliminate potential movement and/or damage from falling.
- 10. INSURE THAT THE INTAKE AND EXHAUST AREAS ARE CLEAR PRIOR TO STARTING THE UNIT.
- 11. KEEP ARMS, HANDS, AND FINGERS AWAY FROM THE FAN. Avoid all exposure to rotating parts.
- 12. DO NOT OPERATE THIS UNIT WITHOUT THE FILTERS IN PLACE.

- 13. DO NOT ATTEMPT TO REMOVE OR REPLACE THE FILTER(S) WHILE THE UNIT IS RUNNING. Make certain that the unit is disconnected from the power source.
- 14. **MAINTAIN THE UNIT IN TOP CONDITION**. Keep filters clean for optimum performance. Follow all instructions for changing and cleaning filters.
- 15. **STORE THIS UNIT IN A LOCATION** that eliminates the potential of damage to the power cord. Safely store power cord on the unit to eliminate tripping hazards.
- 16. TURN THE UNIT "OFF" AND DISCONNECT IT FROM THE POWER SOURCE before installing or removing accessories, or when making repairs.

## READ AND SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.

## **POWER CONNECTIONS**

A separate electrical circuit should be used for your machines. This circuit should not be less than #12 wire and should be protected with a 20 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and matching receptacle which will accept the machine's plug. Before connecting the unit to the power line, make sure the switch (s) is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the machine. All line connections should make good contact. Running on low voltage will damage the unit.

# A WARNING DO NOT EXPOSE THE MACHINE TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS.

Your machine is wired for 120 volt, 60 HZ alternating current. Before connecting the machine to the power source, make sure the switch is in the "OFF" position. The full-load current is 5.0 amps.

## **GROUNDING INSTRUCTIONS**

# **AWARNING** THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

**1. All grounded, cord-connected tools:** In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.Improper connection of the equipmentgrounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipmentgrounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-hole receptacles that accept the tool's plug, as shown in Fig. A.

## Repair or replace damaged or worn cord immediately.

## 2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150 volts:

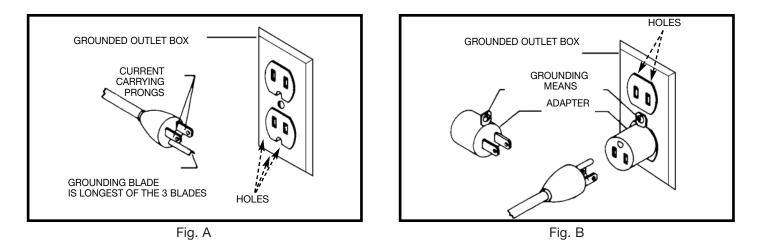
This tool is intended for use on a normal 120-volt circuit and has a grounded plug that looks like the plug illustrated in Fig. A.

If a properly grounded outlet is not available, a temporary adapter, shown in Fig. B, may be used for connecting the 3-prong grounding type plug to a 2-hole receptacle. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place with a metal screw.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.

AWARNING IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A QUALIFIED ELECTRICIAN CHECK THE RECEPTACLE.

3



# **EXTENSION CORDS**

Use proper extension cords. Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and a 3-hole receptacle which will accept the machine's plug. When using an extension cord, be sure to use one heavy enough to carry the current of the machine. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. C shows the correct gauge to use depending on the cord length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

## MINIMUM GAUGE EXTENSION CORD

RECOMMENDED SIZES FOR USE WITH STATIONARY ELECTRIC TOOLS

Ampere	Volts	Total Length of	Gauge of
Rating		Cord in Feet	Extension Cord
0-6	120	up to 25	18 AWG
0-6	120	25-50	16 AWG
0-6	120	50-100	16 AWG
0-6	120	100-150	14 AWG
6-10	120	up to 25	18 AWG
6-10	120	25-50	16 AWG
6-10	120	50-100	14 AWG
6-10	120	100-150	12 AWG
10-12	120	up to 25	16 AWG
10-12	120	25-50	16 AWG
10-12	120	50-100	14 AWG
10-12	120	100-150	12 AWG
12-16	120	up to 25	14 AWG
12-16	120	25-50	12 AWG
12-16	120	GREATER THAN 50 FEET NOT RECOMMENDED	

Fig. C

# INTRODUCTION

Model 50-868 Delta Air Cleaner is specifically designed to quietly circulate and filter non-metallic dust which is generated throughout the work area. The Air Cleaner is furnished with two filters: a disposable outer filter which filters out larger particles five microns in size, and a secondary filter which captures 91% of the dust particles of one micron in size (one micron = one millionth of a meter). Because breathing microscopic particles can be a potential health hazard, filtering microscopic dust particles offers a cleaner and safer environment. This Air Cleaner will filter the air in a room measuring 20' x 20' x 8' either 13, 16, or 18 times an hour, depending on the setting. If desired, multiple units can be used to filter larger areas. The Air Cleaner is maintenance free. An occasional cleaning and/or replacement of filters is the only required maintenance.

# UNPACKING

The Air Cleaner is shipped complete in one shipping container. Carefully unpack the Air Cleaner and all loose items from the shipping container.

## AWARNING DO NOT LIFT THE AIR CLEANER BY POWER CORD.

# **CARTON CONTENTS**

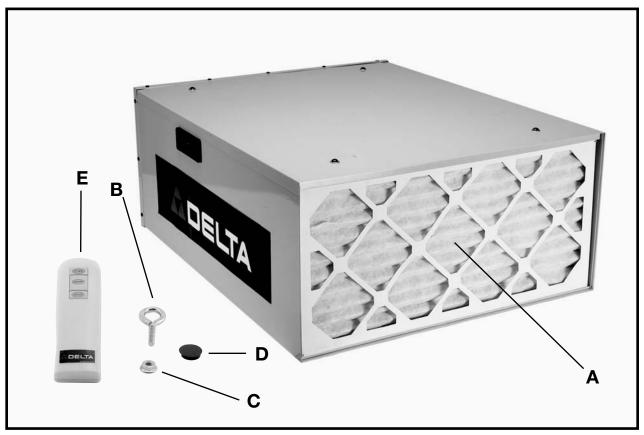


Fig. 2

- A Air cleaner
- B Four 1" eye-bolts
- C Four 1/4-20 flange nuts
- D Four rubber feet
- E Remote Control Unit

(Batteries not included)

# **ASSEMBLY INSTRUCTIONS**

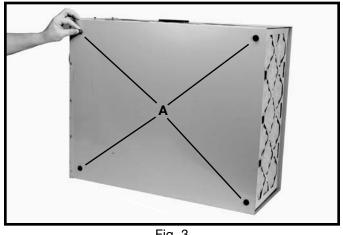
Determine whether the Air Cleaner will be used on the floor, on a bench, or hanging from an overhead support. If the Air Cleaner will be used as a mobile unit, proceed to **"USING THE AIR CLEANER ON A BENCH OR FLOOR SURFACE**" section. For overhead or ceiling mounting, refer to section **"MOUNTING THE AIR CLEANER TO A CEILING OR OVERHEAD SUPPORT."** 

**IMPORTANT:** When determining where to mount the air cleaner, always select a location where the air flow is unrestricted. Do not locate the unit in a corner or near any heating or cooling vents.

## **USING THE AIR CLEANER ON A BENCH OR FLOOR SURFACE**

1. Locate (4) self-adhesive rubber feet (A) Fig. 3, supplied with the unit. Carefully place Air Cleaner on a firm supporting surface with access to the bottom of the cabinet Apply a self-adhesive rubber foot (A) Fig. 3, to the bottom at each corner of the air cleaner cabinet. The rubber feet will help eliminate vibration and will prevent the possibility of the air cleaner "walking" across the work or floor surface.

For operator safety, clamp the unit to a work bench or position it securely on sawhorses.





2. The air cleaner cabinet has convenient lifting handles located on either side (one of which is shown at (A) in Fig. 4. To avoid damage to the air filters, carry the air cleaner with the filters positioned away from your body.

AWARNING This unit weighs 50 pounds.

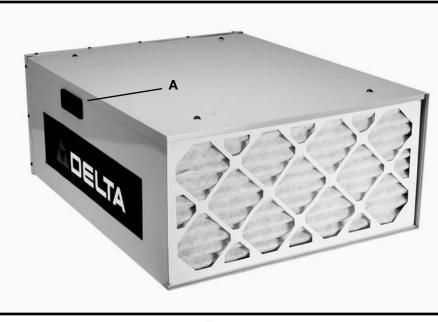


Fig.4

## MOUNTING THE AIR CLEANER TO THE CEILING OR **OVERHEAD SUPPORT**

This machine weighs 50 pounds. When mounting overhead, be certain that the unit is secure-**AWARNING** ly fastened and supported.

1. Locate the four 1" eye bolts and the four 1/4-20 flange nuts supplied with the unit.

2. Use a 5/32" Allen wrench (not supplied) to remove the four screws, (C) Fig. 5 from the top of air cleaner (D).

3. Thread one flange nut on the bolt approximately 3/4" of the threaded portion of the bolt.

4. Thread each eye-bolt into each of the four holes where screws were removed in **STEP 2**.

5. Fig. 6 illustrates the four eye bolts (F) attached to the top of the air cleaner. **NOTE:** Be certain that the flange nuts are tightened against the surface of the air cleaner.

When suspending the air cleaner from the ceiling or other overhead support, use steel s-hooks that are a minimum of 1/4". **NOTE:** Thread all lag hooks at least 1-1/2" into the supporting structural members.

**AWARNING** Never secure the air cleaner hardware to drywall, drop ceiling tile/frame, or other nonstructural members.

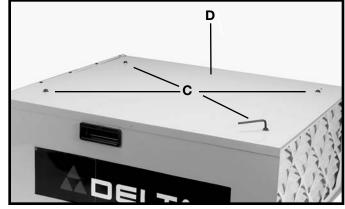


Fig. 5

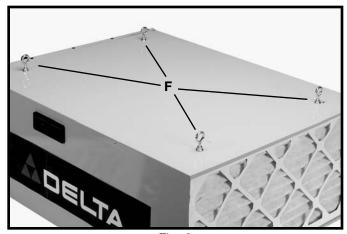


Fig. 6

**AWARNING** Keep a minimum of seven feet between bottom of air cleaner and the floor surface.

DO NOT use rope, cable or power cord to suspend the unit from the ceiling. Use chain rated for a <u>minimum of</u> <u>a 150 lb. working load</u>. IMPORTANT: When determining a location to mount the unit, the air cleaner will operate more efficiently when the air flow is unrestricted. Do not locate the unit in a corner or near any heating or cooling vents.

# USING THE REMOTE CONTROL

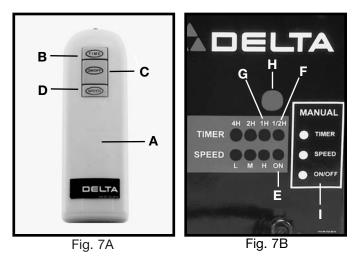
**AWARNING** To reduce the risk of fire or electric shock, do not use this unit with any solid-state speed control device. The remote control provided with this unit is not considered a solid-state device.

The Air Cleaner is equipped with a REMOTE CONTROI (A) Fig.7A. **NOTE:** The remote requires two (2) AAA batteries (not supplied). Battery housing is located inside the back cover.

Notice that the remote control has three control buttons (Fig. 7A): TIME (B), ON/OFF (C), and SPEED (D). These buttons correspond to the LED sensor panel on the rear of the machine (I) Fig. 7B. **NOTE: When the machine is connected to the power source, a green light (E) will be activated on the panel.** 

To activate the blower unit, press the "ON/OFF" button (C) Fig. 7A. The machine will begin in the default speed of Low or "L" on the sensor panel. Press the SPEED button once, and the machine will run at the high (or "H" level). Press the SPEED button again, and the machine will run at the medium speed (or "M"). Press the SPEED button a third time, and the machine will return to the Low Speed mode.

To turn the machine off, press the "ON/OFF" button (C) Fig. 7A.



The 50-868 Dust Collector provides a timer that can be set by remote control. (B) Fig. 7A.

When the TIME button (B) Fig. 7A is pressed on the remote control, the machine will run for 1/2 hour. (An LED light will show up on the sensor panel (F) Fig. 7B). Pressing the TIME button again will set the machine to run for one hour. Notice that the light on the sensor panel has now moved to the 1H location (G) Fig. 7B. When the TIME button is pressed a third time, the machine will run for 90 minutes. At this point, two lights will appear - one under the 1H location (G) and one under the 1/2H location (F) indicating an hour and a half.Continue this process for up to 7 1/2 hours of run time.

All of these actions can be manually controlled by using the buttons on the sensor panel (I) Fig. 7B.

# **OPERATIONS**

1. **NOTE:** The air cleaner may produce a slight odor for the first few hours of operation due to the protective coating which is applied to internal components. This odor will dissipate and should be disregarded. **IMPORTANT: Never operate the air cleaner without air filters in place.** 

The Delta 50-868 air cleaner can be used in

- a. bench-top sanding applications.
- b. circular saw applications
- c. dry wall applications
- d. shop cleaning applications
- e. floor sanding applications.
- f. any other application where non-metallic dust is a factor.

# MAINTENANCE

# **CHANGING AND CLEANING FILTERS**

1. To remove the outer first stage filter (A) Fig. 8, lift and pull out the bottom of the filter as shown.

2. Remove inner bag filter (B) Fig. 9 in the same manner.

3. The first stage filter can be replaced or cleaned depending on its condition. Clean this filter in one of two ways: Use a shop vac to remove the dust, or use compressed air (30 psi maximum) to blow the dust out of the filter.

**AWARNING** Compressed air can be dangerous. For operator safety, do not exceed an air pressure of 30 psi. do not point the air nozzle toward yourself or anyone else. always wear safety glasses and a dust mask when using compressed air.

4. The inner bag filter is disposable and must be replaced. <u>DO NOT</u> try to clean it.

5. Reinstall the filters by placing the top of the filter in first and lifting on the bottom to get it into position. **NOTE: The air flow arrow on the outer filter must** point inward toward the rear of the air cleaner. Location of the air flow arrow is shown at fig. 10.

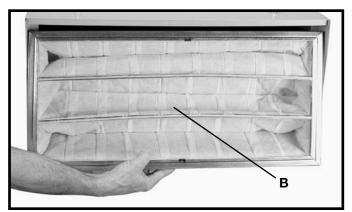
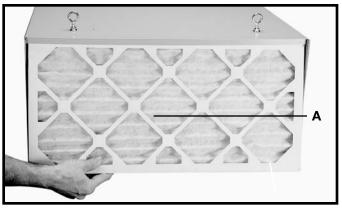


Fig. 9





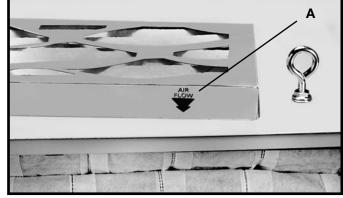


Fig. 10

# ACCESSORIES

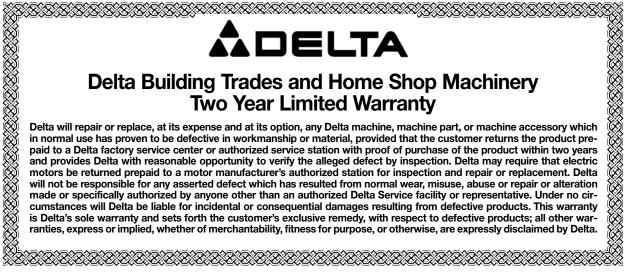
A complete line of accessories is available from your Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Delta Authorized Service Stations. Please visit our Web Site **www.deltamachinery.com** for a catalog or for the name of your nearest supplier.

## **A**WARNING

Since accessories other than those offered by Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Delta recommended accessories should be used with this product.

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