

Operations & Parts Manual



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PDC203

3HP Dust Collector

Please ensure you have your serial number available when contacting us for parts or service.

Cantek America Inc. | 1.888.982.2683 | **Parts:** sales@cantekamerica.com | **Service:** service@cantekamerica.com

IMPORTANT SAFETY INSTRUCTIONS

When using your Dust Collector, follow basic safety precautions including the following.

WARNING: To reduce the risk of fire, electric shock, or injury: Read and understand this manual and all labels on the Dust Collector before operating. Use only as described in this manual. To avoid personal injury or damage to Dust Collector, use only recommended accessories.

Sparks inside the electrical parts can ignite flammable vapors or dust. To avoid fire or explosion:

- Do not vacuum or use this Dust Collector near flammable or combustible liquids, gases, gasoline or other fuels, lighter fluid, cleaners, oil-based paints, natural gas, hydrogen, or explosive dusts like coal dust, magnesium dust, grain dust, or gun powder.
- Do not vacuum anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- To avoid health hazards from vapors or dusts, do not vacuum toxic materials.
- Do not use store near hazardous materials.
- Do not use outdoors or on wet surfaces.
- Put unit on a stable, level surface.
- Route vacuum hose and electric cord out of traffic areas.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not leave appliance plugged in. Unplug from outlet when not in use and before servicing.
- Use extra care when cleaning on stairs. “Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.”
- To avoid from accidental starting, unplug power cord before changing or cleaning filter/dust bag or chip bag.
- Do not use without filter/dust bag and/or chip bag in place.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Turn off controls before unplugging.
- Do not use with damaged cord, plug other parts. If your Dust Collector is not working as it should, has missing parts, has been dropped, damaged, left outdoors, or dropped into water, return it to Service Center.
- Do not pull or carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run Dust Collector over cord. Keep cord away from heated surfaces.
- Do not handle plug of the Dust Collector with wet hands.
- Do not put any object into ventilation openings. Do not vacuum with any ventilation openings blocked; keep free of dust, lint, hair, or anything that may reduce air flow.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Extension cords in poor condition or that are too small can pose fire and shock hazards. When using an extension cord, be sure it is in good condition. See “Extension Cords” in the “Operation” section for proper wire sizes.
- Connect to properly grounded outlet only. (See “Grounding Instructions”)

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

CAUTION: If using this Dust Collector to help keep airborne wood dust heavy usage within acceptable limits, you must regularly monitor air borne dust and maintain Dust Collector to avoid exceeding dust limits. Each application is unique. Your maintenance schedule must, therefore, be tailored your specific use of this Dust Collector.

Safety is a combination of common sense, staying alert and knowing how your Dust Collector works.

BEFORE USING THE DUST COLLECTOR:

WARNING: TO AVOID MISTAKES THAT COULD RESULT IN SERIOUS, PERMANENT INJURY, DO NOT CONNECT POWER CORD UNTIL THE FOLLOWING STEPS HAVE BEEN SATISFACTORILY COMPLETED:

1. Assembly, mounting and alignment.
2. Learn the function and proper use of the ON/OFF switch.
3. Read and understand all safety instructions and operating procedures throughout the manual.
4. Read the following labels which appear on the top and bottom of ration housing and sides of motor.

WARNING ⚠️ AVERTISSEMENT	
	Metal shavings or dust can set sawdust on fire. Collect wood materials only. Do not collect metal shavings or dust. See manual for details. La Pousière ou les rognures de métal peuvent mettre le feu à la sciure de bois. Ramasser les matériaux en bois seulement, ne pas ramasser la poussière ou les rognure de métal voir le manuel pour détail.
	Risk of electrical shock. Use indoors in dry area. Do not use outdoors or on wet surfaces. Risque de choc électrique. Utiliser à l'intérieur dans les endroit sec. Ne pas utiliser à l'extérieur ou sur des surface humides.
	Sparks can ignite vapors from flammable products. Do not use around flammable products. Des étincelles peuvent enflammer des vapeurs de produits inflammables. Ne pas utiliser près de produits inflammable.
If connected to a circuit protected by fuses, use time delay fuses with this appliance. En cas de raccordement à un circuit protégé par des fusibles, utilisez des fusibles à retardement avec cet appareil.	

BEFORE EACH USE:

1. Inspect your Dust Collector. If any parts are missing, bent, or fail in any way, or any electrical components do not work properly, turn off the Dust Collector, remove switch key, and remove power supply cord from power supply. Replace damaged, missing or failed parts before using the Dust Collector again.
2. Plan your work to protect your eyes, hands, face, ears, and body.



- A. WEAR SAFETY GOGGLES, FORESIGHT IS BETTER THAN NO SIGHT. Wear safety goggles, not glasses, that comply with ANSIZ87.1 (shown on label). Operating any power tool can result in foreign objects being thrown into the eyes which can result in permanent eye damage. Safety goggles are available at stores. Use of lasses or goggles not in compliance with ANSIZ87.1 could result server injury from breakage of the eye protection.
- B. When cleaning collection bags, wear a dust mask.

WARNING ⚠️ AVERTISSEMENT	
	DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS/NE PAS EXPOSER A LA PLUIE ET NE PAS UTILISER DANS LES EMPLACEMENTS HUMIDES. FE

WARNING ⚠️ AVERTISSEMENT	
	DO NOT OPERATE WITHOUT HOSE CONNECTED TO SUCTION CHUTE. HAZARDOUS MOVING PARTS INSIDE. UNPLUG BEFORE REMOVING SUCTION CHUTE. ATTACH SUCTION CHUTE BEFORE PLUGGING IN. NE PAS FAIRE FONCTIONNER SI LE TUYAU N'EST PAS BRANCHE À LA GOULOTTE D'ASPIRATION. PIÈCES EN MOUVEMENT DANGEREUSES À L'INTÉRIEUR. DÉBRANCHER AVANT D'ÉLEVER LA GOULOTTE D'ASPIRATION. POSER LA GOULOTTE D'ASPIRATION AVANT DE BRANCHER. FE

GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

1. KNOW YOUR TOOL

Read and understand manual and labels affixed to the tool. Learn its application and limitations as well as its specific potential hazards particular to this tool.

2. GROUND THE TOOL

This tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. Never CONNECT THE GREEN WIRE TO A LIVE TERMINAL.

3. KEEP GUARDS IN PLACE

In working order, and in proper adjustment and alignment.

4. REMOVE ADJUSTING KEYS AND WRENCHES

Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

5. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floor must not be slippery due to wax or sawdust.

6. AVOID DANGEROUS ENVIRONMENT

Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lighted.

Provide adequate surrounding work space.

7. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

8. MAKE WORKSHOP CHILD-PROOF

With padlocks, master switches, or by removing starter keys.

9. USE PROPER SPEED

This tool will do the job better and safer when operated at the proper speed.

10. USE RIGHT TOOL

Don't force tool or attachment to do a job for which it was not designed.

11. WEAR PROPER APPAREL

Do not wear loose clothing, gloves, neckties or jewelry (fing, wristwatches) to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

12. USE SAFETY GOGGLES (Hand Protection)

Wear safety (must comply with ANSIZ87.1) at all times. Everyday eyeglasses only have impact resistance lenses; they are NOT safety glasses. Also, use face or dust mask if cutting operation is dusty, and ear protectors (plug or muffs) during extended periods or operation.

13. DON'T OVERREACH

Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS

Before servicing, when changing accessories or attachments.

16. AVOID ACCIDENTAL STARTING

Make sure switch is in "OFF" position before plugging in.

17. USE RECOMMENDED ACCESSORIES

Consult the manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

18. NEVER STAND ON TOOL

Serious injury could occur if the tool tips over. Do not store materials such that it is necessary to stand on the tool to reach them.

19. CHECK DAMAGED PARTS

Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function. Check for alignment of moving parts, binding or moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power "OFF". Don't leave Dust Collector until it comes to a complete stop. Your Dust Collector is designed for use in attended use.

INTRODUCTION

This Dust Collector is specifically designed to capture sawdust and wood chips at the source. The fine dust is filtered by the upper bag while heavy particles settle in the lower bag for easy removal. Do not use as a vacuum.

⚠ CAUTION: The blower housing contains high speed fan blade that can amputate fingers, grab loose clothing and neckties, or propel dust at high velocities. DO NOT OPERATE WITHOUT ALL PARTS IN PLACE.

Do not attempt to clean, remove dust bags or service unit while in operation. Disconnect from power source.

This Dust Collector is intended either commercial or household use.

IMPORTANT NOTE Please Read Carefully

Static Shocks Are Common in dry areas or where the relative humidity of the air is low. To reduce the

frequency of static shocks in your home, the best remedy is to add moisture to the air with a console or installed humidifier.

The safety information in this manual is highlighted by the following safety alert symbol.



The following signal words are used to indicate the level of risk.

⚠ DANGER: Means that if the safety information is not followed, someone **will** be seriously injured or killed.

⚠ WARNING: Means that if the safety information is not followed, someone **could** be seriously injured or killed.

⚠ WARNING: Means that if the safety information is not followed, someone **may** be seriously injured or killed.

⚠ WARNING

Read and understand the entire contents of this manual before attempting assembly or operation of the dust collector!

Failure to comply may cause serious injury!

Unpacking

1. Finish removing all contents from the shipping carton.
2. Report any damage to your distributor.
3. Do not discard any shipping material until after the dust collector has been assembled and is running properly.

Contents of Shipping Carton

Base x 1
Casters x 4
Motor/Fan Assembly x 1
Housing x 2
Inlet Cover x 1
Hose Adapter w/ Cap x 1
Tube x 1
Support Rod x 2
Upper Hanger x 2
Lower Hanger x 2
Hanger Bracket x 2
Retainer Straps x 4
Collection Bag x 2
Filter Bag x 2
Hardware Bag x 1
Manual x 1

ASSEMBLY

1. Remove nut and lock washer from caster shaft. Thread nut onto caster shaft and place lock washer over the nut. Insert assembly into lapped hole on underside of base. Repeat for three other casters. (Fig. 1)



Fig. 1

2. Place base with casters on the ground and attach motor/fan assembly to base by hex bolts and washer (6) (Fig. 2) Attach hose adapter to fan housing.

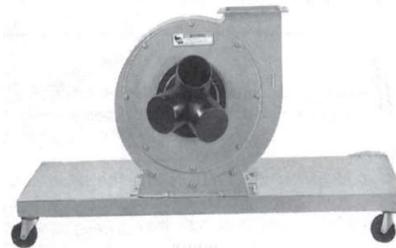


Fig. 2

3. Attach connector tube to fan housing using hex head bolts, washers, and nuts. Be sure connector tube faces the proper direction. (Fig. 3)

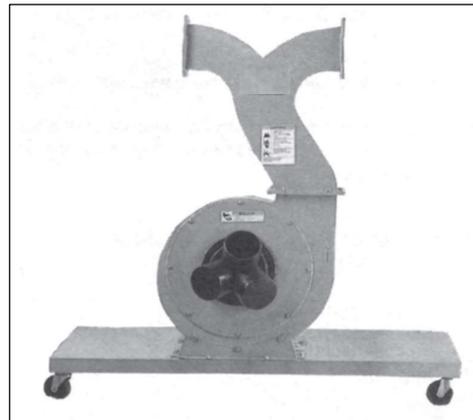


Fig. 3

4. Attach the 2 collector housings to the connector tube (Fig. 4), with hex head bolts, washers, and nuts. Check that the 2 holes on the outside of each drum that are used to attach the support brackets (Fig. 5), are at the bottom half of the drum as shown.

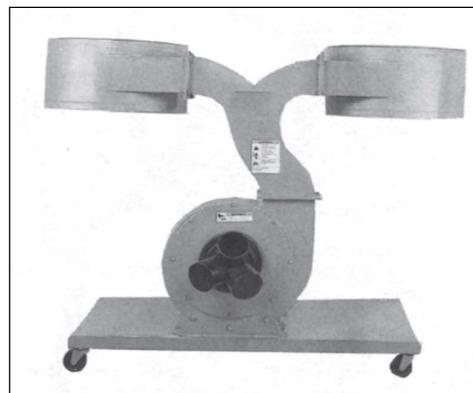


Fig. 4

5. Attach support brackets to base using hex head bolts and washers. Do not tighten at this time. Insert hanger bracket (Fig. 5) between support brackets and collector housing. Align holes and secure with hex head bolts, washers, and nuts. Use two washers per bolt – both inside and outside the collector housing. Tighten all support bolts.

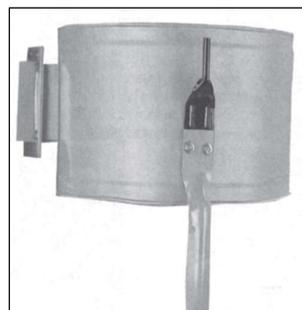


Fig. 5

6. Thread a lower hanger into an upper hanger. Attach upper hanger bracket hook to a filter bag loop found on the top of the filter bag. Place the hanger into the hanger bracket. Slide a retainer strap through keepers and attach to the housing. Repeat for the other side. (Fig. 6 – next page)

7. Slide retainer straps through keepers of collector bags and attach them to collector housing. (Fig. 7 – next page)

Electrical Connections

⚠ WARNING

All electrical connections must be done by a qualified electrician. Failure to comply may result in serious injury!

All adjustments or repairs must be done with the dust collector disconnected from the power source. Failure to comply may result in serious injury!

Confirm that power at the source is compatible with the dust collector before making the electrical connections. The motor cord will have to be wired with a plug rated at the voltage motor nameplate shown. The dust collector must also be properly grounded through the electrical connection.

Before hooking up the power source, make sure that the switch is in the off position.



Fig. 6



Fig. 7

Operational Hints

During first use and after cleaning, the filter bag may allow some dust to escape. This is normal and will stop after a short period of time.

⚠️ WARNING

Wearing a particle mask/respirator for protection against fine dust particles during cleaning is highly recommended.

Clean both filter and collector bags frequently to keep the collector's performance at its optimum. To clean:

1. **Disconnect the machine from the power source.**
 2. Loosen the retaining strap, remove the bag from the housing, and empty contents.
 3. Turn the bag inside out and shake vigorously.
 4. Turn the bag outside in and re-attach to the housing using the retainer strap to secure.
 5. Connect the machine to the power source.
- Use the proper type hose to connect the dust collector to the machine being operated. Dryer vent hose is not acceptable for this purpose.

OPERATION

POWER SUPPLY

⚠️ WARNING: ALWAYS MAKE SURE THE VOLTAGE OF MOTOR AND MOTOR RATING AGREE WITH THE ELECTRICAL SYSTEM WHICH IS TO BE CONNECTED TO FOR YOUR DUST COLLECTOR OPERATION. CONNECT TO THE RIGHT ELECTRICAL SYSTEM AND USE TIME DELAY FUSE OR CIRCUIT BREAKER. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

Your dust collector must be properly grounded. Not all outlets are properly grounded. If you are not sure that your outlet is properly grounded, have it checked by a qualified electrician.

⚠️ WARNING: IF NOT PROPERLY GROUNDED, THIS DUST COLLECTOR CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS.

⚠️ TO AVOID SHOCK OR FIRE, IF POWER CORD IS WORN, CUT, OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.
EXTENSION CORDS

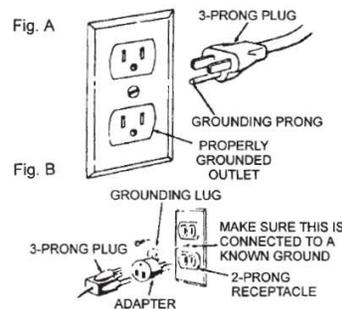
GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

⚠️ WARNING: TO MAINTAIN PROPER DUST COLLECTOR GROUNDING, WHENEVER THE OUTLET YOU ARE PLANNING TO USE FOR THIS POWER TOOL IS OF THE TWO PRONG TYPE, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

This appliance is for use on a nominal 120-volt circuit and has a grounded plug that looks like the plug illustrated below. A temporary adapter may be used to connect this plug to a 2-prong receptacle, as shown below, if a properly grounded outlet is not available. 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 by a metal screw.

WARNING: IMPROPER CONNECTION OF THE EQUIPMENT GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTRIC SHOCK. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICE PERSON IF YOU ARE IN DOUBT AS TO WHETHER THE OUTLET IS PROPERLY GROUNDED. DO NOT MODIFY THE PLUG PROVIDED WITH THE APPLIANCE IF IT WILL NOT FIT THE OUTLET. HAVE A PROPER OUTLET INSTALLED BY A QUALIFIED ELECTRICIAN.



⚠️ WARNING: THE ADAPTER ILLUSTRATED IS FOR USE ONLY IF YOU ALREADY HAVE A PROPERLY GROUNDED 2-PRONG RECEPTACLE.

The use of any extension cord will cause some loss of power. Use the following table to determine the minimum wire size (AWG) extension cord. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole receptacles which accept the tool's plug.

For circuits that are farther away from electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the saw motor.

<u>Length of Conductor</u>	Wire Sizes Required (American Wire Gage)
0-25 feet	
26-50 feet	<u>120 Lines</u>
51-100 feet	NO.16 NO.14 NO.12

MAINTENANCE

Motor

Excessive dust in motor could cause excessive heat in motor.

Every effort should be made to prevent foreign material from entering the motor. When operated under conditions likely to permit accumulations of dust, dirt, or waste within the motor, a visual inspection should be made at frequent intervals. Accumulations of dry dust can usually be blown out successfully.

NOTE: Motors used on woodworking tools are particularly susceptible to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent interference with normal motor ventilation.

To remove dust, blow off motor with a low pressure air hose.

⚠ CAUTION: To avoid eye injury or adverse reaction to dust, high air pressure should not be used especially in poorly ventilated areas.

The operator performing this cleaning function should wear safety goggles and filter mask.

Do not use unit if power cord becomes worn or frayed.

If any servicing (other than the above cleaning) becomes necessary, it should be performed by an authorized Service Center.

NOTE: The speed of this motor cannot be regulated or changed.

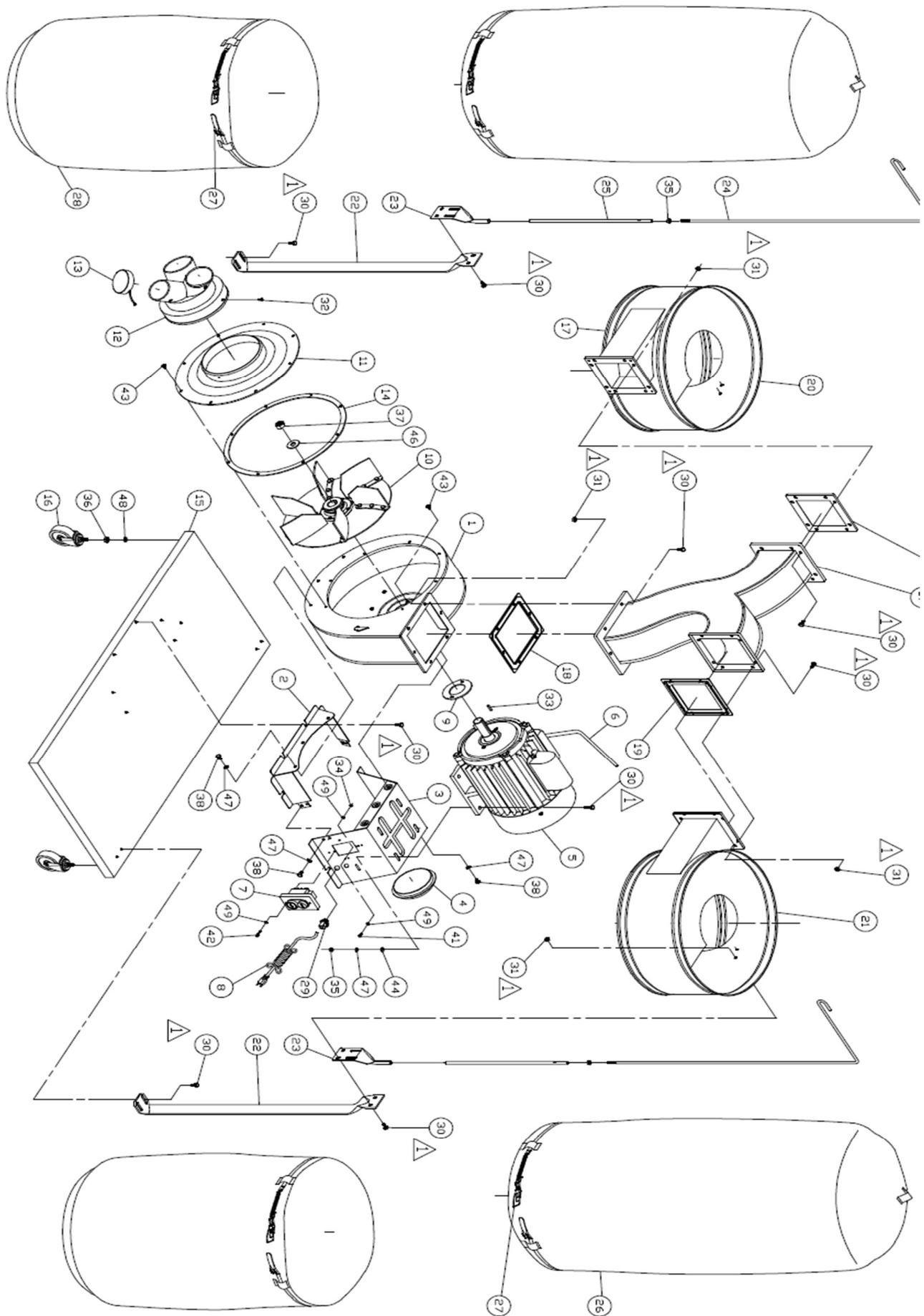
TOUBLESHOOTING

NOTE: Motors used on woodworking tools are particularly susceptible to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent interference with normal motor ventilation and proper operation of the centrifugally-operated starting switch.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor will not run.	1. Defective cord, plug switch and/or motor 2. Blown fuse	1. Consult Service. Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician. Repair services is available at your nearest service enter.

		2. Check for blown fuses and replace with fuse of proper capacity.
Excessive sawdust in air.	1. Loose connectors 2. Filter/dust bag and/or chip collection bag releasing sawdust	1. Tight connections. 2. a. Sawdust trapped between clamp bag and housing. b. Lower bag is hung up on sawdust shoot extension. Reposition chip bag properly. See “Maintenance Chip Bag”.
Excessive impeller noise.	1. Picked up large wood chips or debris 2. Loose impeller 3. Rubbing impeller	1. Do not pick up metal or ferrous materials. Stop the machine and the material will fall to the bottom of inlet tube. 2. Unplug unit prior to disassembly. Hazardous moving parts inside. Attach inlet guard before plugging in. Use a piece of wood to free impeller. 3. Consult Service to repair loose or rubbing impeller. A repair to the housing may create a hazard unless it is done by a qualified service technician. Repair service is available at your nearest center.
Excessive noise.	1. Motor	1. Have motor checked qualified service technician. Repair service is available at your nearest service center.
Motor fails to develop full power.	1. Motor 2. Overloaded circuit 3. Undersize extension cord or extension cord is too long.	1. Have motor checked by qualified service technician. 2. Do not overload circuit when using dust collector with other appliances. 3. Increase the wire sizes on extension cord, reduce length of extension cord or use larger wire sizes. Request a power check from the power company.
Motor starts slowly or fails to come up to full speed.	1. Low voltage 2. Windings burned out or open. 3. Starting switch will not operate.	1. Request voltage check from the power company. 2. Have motor repaired or replaced a qualified service technician. 3. Have capacitor replaced by a qualified service technician.
Motor overheats.	1. Motor overloaded. 2. Improper cooling. (Air circulation restricted through motor due to sawdust, accumulating inside of motor.)	1. Clean out sawdust to provide normal air circulation through motor. See “Maintenance” section.
Motor stalls. (resulting in blown fuses or tripped circuit breakers.)	1. Low voltage does not permit motor to reach operating speed. 2. Fuses or circuit breakers do not have sufficient capacity.	1. Request voltage check from the power company. 2. Install proper size fuses or circuit breakers.
Frequent opening of fuses or circuit breakers.	1. Motor overloaded. 2. Fuses or circuit breakers do not have sufficient capacity.	1. Install proper size fuses or circuit breakers.

SDC-4043A



SDC-4043A PARTS LIST

ITEM	PART NO.	PARTS NAME	SIZE	Q'TY	NOTE
1	431018	Impeller Housing		1	
2	431019	Impeller Housing Base		1	
3	431020	Motor Fixed Housing		1	
4	459038	Rear Guard		1	
5	MA431001	Motor	3HP	1	
6	IM431001	Motor Cord		1	
7	994543	Square Switch		1	
8	IC431001	Power Cord		1	
9	420051	Motor Spindle Washer		1	
10	AB431906	Impeller Set	φ14"	1	
11	431008	Inlet Cover		1	
12	431025	Adapter	Plastic	1	
13	420203	Adapter Cap		2	
14	431034	Inlet Cover Gasket		1	
15	430028	Base		1	
16	402036	Pivoting Caster	φ3"x3/8"X16unc	4	
17	430004	Y Type Connector		1	
18	430035	Pad	6 Holes	1	
19	430036	Gasket	8 Holes	2	
20	430002	Left Housing	0.7*1580*282	1	
21	430030	Right Housing	0.7*1580*282	1	
22	402004	Support Rod		2	
23	523011	Hanger Bracket		2	
24	430053	Upper Hanger		2	
25	424008	Lower Hanger		2	
26	430055	Filter Bag	P-5800 1219mm	2	
27	AB410012	Retainer Strip		4	
28	402018	Collection Bag	P-5800	2	
29	998654	Strain Relief		2	
30	SG080400	Hex. Flange Screw	M8*1.25*20	40	H(36)
31	NF081300	Hex. Flange Nut	M8*1.25	30	H(26)
32	SF550400	Pan Head Screw(+)/W	3/16"x1/2"	1	H
33	KS070720	Parallel Key	7*7*20	1	
34	NH550800	Nut	3/16"*24UNC	1	
35	NH081300	Nut	M8*13	6	H(2)
36	NH581400	Nut	3/8"*16UNC	4	
37	NH602300	Nut	5/8"*11UNC	1	
38	SH089300	Hex. Head Screw	M8*1.25*12	10	
41	SP550400	Pan Head Screw (+)	3/16"*1/2"	1	
42	SP551000	Pan Head Screw (+)	3/16"*1"	2	
43	SH069300	Hex. Head Screw	M6*1*12	10	H(8)
44	WF081818	Flat Washer	M8*φ18*t1.8	8	