

1 HP DUST COLLECTOR



MODEL: KC-2105C
INSTRUCTION MANUAL

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IMPORTANT INFORMATION



2-YEAR LIMITED WARRANTY FOR THIS DUST COLLECTOR

KING CANADA TOOLS

OFFERS A 2-YEAR LIMITED WARANTY FOR NON-COMMERCIAL USE.

PROOF OF PURCHASE

Please keep your dated proof of purchase for warranty and servicing purposes.

REPLACEMENT PARTS

Replacement parts for this tool are available at our authorized KING CANADA service centers across Canada. For servicing, contact or return to the retailer where you purchased your product along with your proof of purchase.

LIMITED TOOL WARRANTY

KING CANADA makes every effort to ensure that this product meets high quality and durability standards. KING CANADA warrants to the original retail consumer a 2-year limited warranty as of the date the product was purchased at retail and that each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations and lack of maintenance. KING CANADA shall in no event be liable for death, injuries to persons or property or for incidental, special or consequential damages arising from the use of our products. To take advantage of this warranty, the product or part must be returned for examination by the retailer. Shipping and handling charges may apply. If a defect is found, KING CANADA will either repair or replace the product.

PARTS DIAGRAM & PARTS LISTS

Refer to the Parts section of the King Canada web site for the most updated parts diagram and parts list.



GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

1. KNOW YOUR TOOL

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

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.

Keep in good working order, properly adjusted and aligned.

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. Make sure the floor is clean and not slippery due to wax and sawdust build-up.

6. AVOID DANGEROUS ENVIRONMENT.

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

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

10. USE RIGHT TOOL.

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

11. WEAR PROPER APPAREL.

Do not wear loose clothing, gloves, neckties or jewelry (rings, watch) because they could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Roll up long sleeves above the elbows.

12. ALWAYS WEAR SAFETY GLASSES.

Always wear safety glasses (ANSI Z87.1). Everyday eyeglasses only have impact resistant lenses, thet are **NOT** safety glasses. Also use a face or dust mask if cutting operation is dusty.

13. DON'T OVERREACH.

Keep proper footing and balance at all times.

14. MAINTAIN TOOL 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 the swich is in the "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 parts that are damaged should be carefully checked to ensure that they will operate properly and perform their intended function. Check for alignment of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other parts that are da -maged should be properly repaired or replaced.

20. NEVER LEAVE MACHINE RUNNING UNATTENDED.

Turn power "OFF". Don't leave any tool running until it comes to a complete stop.

SAFETY BEFORE USING YOUR DUST COLLECTOR



CAUTION: If using this dust collector to keep airborne wood dust in heavy usage within acceptable limits, you must regularly monitor airborne dust and maintain the dust collector to avoid exceeding dust limits. Each application is unique. Your maintenance sheedule must therefore be tailored to your specific use.

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

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

- 1. Assembly, mounting and alignment.
- 2. Learn the function and proper use of the "ON/OFF" switch.
- 3. Read and understand all instructions and operating procedures throughout the manual.

BEFORE EACH USE:

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 the switch key and remove the
power cord from the 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.
- 3. WEAR SAFETY GOGGLES. "FORESIGHT IS BETTER THAN NO SIGHT". Wear safety goggles, not glasses, that comply with ANSI Z87.1. Operating any power tool can result in foreign objects being thrown into the eyes which can result in permanent eye damage.
- 4. When cleaning the dust collector bags, wear a dust mask.

This dust collector is specifically designed to capture sawdust and wood chips at the source. The fine dust is filtered by the upper dust bag while the heavier particles settle in the lower dust bag for easy removal. **DO NOT USE AS A VACUUM**.

CAUTION: The blower housing contains a 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 while in operation. Disconnect from power source.

IMPORTANT NOTE: Static shocks are common in dry areas or when 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.

KC-2105C SPECIFICATIONS

VOLTAGE	110V
HORSEPOWER	1 HP
R.P.M	3450
Hz	60
PHASE	1
FAN DIAMETER	
HOSE DIAMETER	4"
AIR FLOW	600 CFM
BAG QUANTITY & SIZE	2 @ 14"X23-5/8"
DUST COLLECTOR BAG CAPACITY	2.1 CUBIC FEET
NET WEIGHT	
SHIPPING WEIGHT	



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UNPACKING

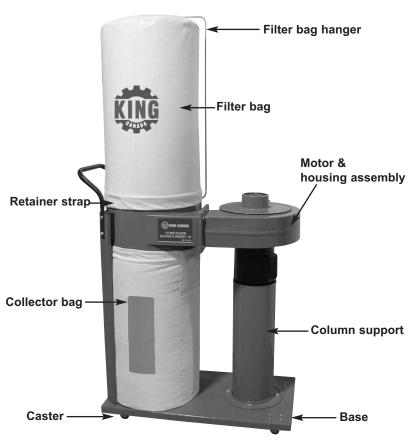
UNPACKING

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

CONTENTS OF THE SHIPPING CONTAINER

See Fig.1 to assist you in locating these parts and to familiarize yourself with the assembly to be done in the next section.

- 1- Base
- 2- Retainer straps
- 1- Motor and housing assembly
- 1- Filter bag hanger
- 1- Motor fan
- 1- Column support
- 4- Casters
- 1- Filter bag
- 1- Collector bag
- 1- Hardware bag



ASSEMBLY



TOOLS REQUIRED FOR ASSEMBLY

 $6\ensuremath{\text{"}}\xspace - 8\ensuremath{\text{"}}\xspace$ Adjustable wrench or a 1/4 to 1-1/8 combination wrench set.

ASSEMBLY

1. Attach the 4 caster wheels under the base using 4 pan hd. screws, washers hex. nuts. Insert the pan hd. screw through the base and secure with hex. nut, Fig.2 illustrates an assembled caster.

2. Place the base on all four wheels. Place the motor & housing assembly on the floor with the motor shaft pointing in the air (Fig.3). Slide the fan onto the motor shaft until the fan is flush with the shaft end and tighten the hex. bolt.

Remove the three pan hd. screws and washers from the motor casting (A-Fig.4). Slide the column over the motor casting, align the holes and secure with the same pan hd. screws and washers.



FIGURE 2



FIGURE 3

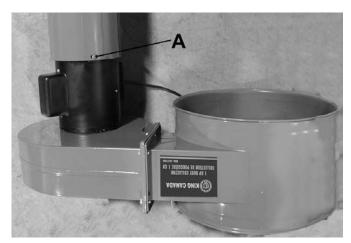
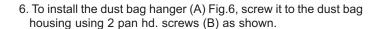


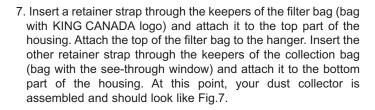
FIGURE 4



ASSEMBLY

- 4. Now you must install the support blocks (A) Fig.5, 2 support legs (B) and transport handle (C) to the dust bag housing. Place support block, support leg and one end of the transport handle against housing and fix in place using 2 hex. bolts, washers (D) and hex. nuts (not shown). Repeat for second support leg.
- 5.Now you must install the motor & housing assembly and support legs to the base. Line up the markings on the column with the ones on the base and secure using four hex. bolts and four washers (F). Also fix the bottom of the support legs to the base using one hex. bolt and washer (E) for each support leg.





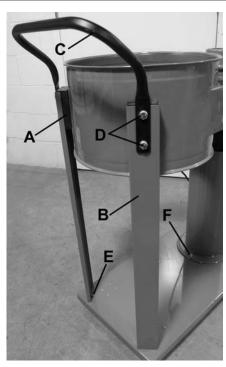


FIGURE 5

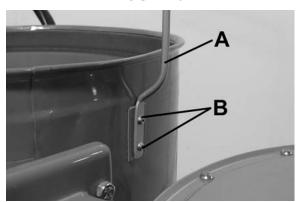


FIGURE 6



FIGURE 7

ELECTRICAL INFORMATION



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!

POWER SUPPLY

WARNING: YOUR DUST COLLECTOR MUST BE CONNECTED TO A 110V, 15-AMP. BRANCH CIRCUIT. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

GROUNDING

Your dust collector must be properly grounded. Not all outlets are properly grounded. If you are not sure if 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 THE POWER CORD IS WORN OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.

If this dust collector should malfunction or breakdown, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This dust collector 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 GROUNDING OF YOUR DUST COLLECTOR, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

110V OPERATION

As received from the factory, your dust collector is ready to run for 110V operation. This dust collector is intended for use on a circuit that has an outlet and a plug which looks like the one illustrated in Fig.8.

WARNING: DO NOT USE A TWO-PRONG ADAPTOR FOR THEY ARE NOT IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. NEVER USE IN CANADA.

EXTENSION CORDS

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

For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the dust collector motor. Refer to Fig.9 for wire length and size.

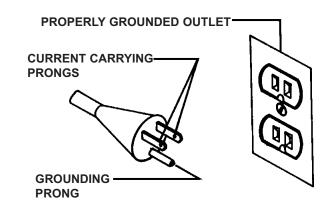


FIGURE 8

LENGTH OF CONDUCTOR	WIRE SIZES REQUIRED (AMERICAN WIRE GAUGE)
	<u>110V LINES</u>
0-25 FEET	NO.16
26-50 FEET	NO.14
51-100 FEET	NO.12

FIGURE 9

ON/OFF SWITCH

On the motor you will find the switch box. The ON/OFF switch has the ability to be turned "ON" when the *Red Key* is properly installed. Switch to the "ON" position by moving the switch upward. To put the switch in the "OFF" position, move the switch downward. Remove the *Key* from the switch whenever the dust collector is turned "OFF". Place the *Starter Key* in a safe place out of reach of children.



MAINTENANCE & TROUBLESHOOTING

MOTOR

Excessive dust in the motor could cause excessive heat.

Every effort should be made to prevent foreign material from entering the motor. When operating 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 susceptable to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent the interference with normal motor ventilation.

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

CAUTION: TO AVOID INJURY OR ADVERSE REACTION TO DUST, A HIGH PRESSURE HOSE SHOULD NOT BE USED ESPECIALLY IN POORLY VENTILATED AREAS.

Operational hints

During the 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.

CAUTION: WEARING A PARTICLE MASK/RESPIRATOR FOR PROTECTION AGAINST FINE DUST PARTICLES DURING CLEANING IS HIGHLY RECOMMENDED.

PROBLEM Motor will not run.	PROBABLE CAUSE 1. Defective cord, plug, switch and/or motor. 2. Blown fuse.	REMEDY SUGGESTED 1. Consult service. Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician. Repair service is available at your nearest service center. 2. Check for blown fuses and replace with fuse of proper capacity.
Excessive sawdust in air.	Loose connectors. Filter/dust bag and/or chip collector bag releasing sawdust.	Tighten connections. Sawdust trapped between clamp bag and housing. b. Lower bag is hung up on sawdust shoot extension. Reposition chip bag properly.
Excessive impeller noise.	 Picked up large wood chips and debris. Loose impeller. Rubbing impeller. 	 Do not pick up metal or ferrous materials. Stop the machine and the material will fall to the bottom of the inlet tube. Unplug dust collector prior to disassembly. Hazardous moving parts inside. Attach inlet guard before plugging in. Use a piece of wood to free impeller. 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. Servicing is available at your nearest service center.
Motor fails to develop full power. NOTE: LOW VOLTAGE (Power output of motor decreases rapidly with decrease in voltage at the motor terminals.	Circuit overloaded with lights, appliances and other motors. Undersized extension cord or extension cord is too long. General overloading of power company facilities.	 Do not use other appliances or motors on the same circuit as your dust collector. Increase the wire size on extention cord, or reduce the length of the extension cord. Request a power check from your power company.
Motor starts slowly or fails to come up to speed.	Low voltage. Windings are burned out or open. Starting switch will not operate. Capacitor is bad.	Request voltage check from your power company. Have motor repaired or replaced by a qualified service technician. Have capacitor replaced by a qualified service technician.
Motor overheats.	Motor overloaded. Improper cooling, air circulation is restricted through motor due to sawdust accumulation.	Clean out sawdust to provide normal air circulation through the motor. See "Maintenance" section in this manual.