

03/2013



HIGH-OUTPUT 3 SPEED AIR CLEANER WITH REMOTE CONTROL



MODEL: KAC-1050

INSTRUCTION MANUAL

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WARRANTY INFORMATION



<p style="text-align: center;">2-YEAR LIMITED WARRANTY FOR THIS 3 SPEED AIR CLEANER</p>	<p style="text-align: center;">KING CANADA TOOLS OFFERS A 2-YEAR LIMITED WARRANTY FOR COMMERCIAL USE.</p>
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PROOF OF PURCHASE

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

REPLACEMENT PARTS

Replacement parts for this product are available at our authorized King Canada service centers across Canada.

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, normal wear and tear, negligence or accidents, repairs done by an unauthorized service center, 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 limited warranty, return the product at your expense together with your dated proof of purchase to an authorized King Canada service center. Contact your retailer or visit our web site at www.kingcanada.com for an updated listing of our authorized service centers. In cooperation with our authorized serviced center, King Canada will either repair or replace the product if any part or parts covered under this warranty which examination proves to be defective in workmanship or material during the warranty period.

NOTE TO USER

This instruction manual is meant to serve as a guide only. Specifications and references are subject to change without prior notice.

PARTS DIAGRAM & PARTS LISTS

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

KING CANADA INC. DORVAL, QUÉBEC, CANADA H9P 2Y4

www.kingcanada.com



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, they are **NOT** safety glasses. Also use a face or dust mask if 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 switch 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 damaged 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.

SPECIFIC SAFETY INSTRUCTIONS FOR YOUR AIR CLEANER

- 1. DO NOT ATTEMPT TO REMOVE OR REPLACE THE FILTER(S) WHILE THE MACHINE IS IN OPERATION. MAKE SURE AIR CLEANER IS DISCONNECTED FROM THE POWER SOURCE.**
- 2. DO NOT OPERATE THE AIR CLEANER WITHOUT THE FILTERS IN PLACE TO AVOID EXPOSURE TO ROTATING PARTS AND OVERLOADING THE MOTOR.**
- 3. THE USE** of filters and attachments which are not recommended may result in product damage or the risk of personal injury.
- When suspending the Air Cleaner from the ceiling **MAKE CERTAIN** the hardware is securely anchored into a wood structure. Always keep a minimum of 7 feet between bottom of Air Cleaner and the floor surface to allow for adequate head clearance. Also, use only properly sized chain to prevent the tool from falling.
- 5. TO REDUCE THE RISK OF ELECTRICAL SHOCK,** do not expose to water or rain, and do not lift the Air Cleaner by the power cord. **DO NOT** use the power cord as a hanging device.
- When used in the portable application, **MAKE CERTAIN** the Air Cleaner is adequately supported, or securely clamped to the work surface to eliminate any potential for movement or damage from falling.
- 7. ALWAYS WEAR ADEQUATE EYE PROTECTION.**
- 8. WHEN NOT IN USE, BE CERTAIN TO STORE AIR CLEANER IN A SAFE LOCATION TO ELIMINATE THE POTENTIAL OF DAMAGE TO THE POWER CORD OR TRIPPING HAZARDS.**
- 9. MAINTAIN TOOLS IN TOP CONDITION.** Keep filters clean for optimum performance. Follow instructions for changing and cleaning filters.
- 10. DANGER: DO NOT** use this machine to filter any metal dust. Combining wood and metal dust can create an explosive hazard. This Air Cleaner is intended to be used to filter non-explosive atmospheres only.
- 11. IF YOU ARE NOT** thoroughly familiar with the operation of the Air Cleaner, obtain advice from your supervisor, instructor or other qualified person.
- 12. WARNING: DO NOT** operate your Air Cleaner until it is completely assembled and installed according to the instruction manual.
- 13. PLACE POWER CORD IN A SAFE LOCATION TO ELIMINATE TRIPPING HAZARDS.**
- 14. USE FACE OR DUST MASK AND EYE PROTECTION. WARNING:** The dust generated by certain woods and wood products can be hazardous to your health. Always operate machinery in well-ventilated areas and provide for proper dust removal.
- 15. WARNING: TO AVOID A POTENTIALLY DANGEROUS SITUATION, DO NOT USE AIR CLEANER TO DISSIPATE FUMES OR SMOKE.** This Air Cleaner is intended for use in non-explosive, non-metallic atmospheres where only dry airborne dust is present.

ELECTRICAL INFORMATION



WARNING!

ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE AIR CLEANER DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!

GENERAL INFORMATION- 120V single phase operation

This air cleaner comes with a 120V single phase motor.

WARNING: YOUR AIR CLEANER MUST BE CONNECTED TO A 110V-120V, 1 PHASE ELECTRICAL SUPPLY. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

This air cleaner is intended for use on an electrical circuit that has an outlet and a plug which looks like the one illustrated in Fig.1.

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

GROUNDING

Your air cleaner 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. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This air cleaner 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 AIR CLEANER, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

WARNING: IF NOT PROPERLY GROUNDED, THIS AIR CLEANER 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.

EXTENSION CORDS

The use of any extension cord will cause some loss of power. Use the table (Fig.2) to determine the minimum wire size (A.W.G-American Wire Gauge) extension cord needed. 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 air cleaner motor. Refer to Fig.2 for wire length and size.

RESET BUTTON

This air cleaner comes with a thermal overload protector, when the motor is overloaded the reset button (A) Fig.3 will trip and the motor will turn off. Allow the motor to cool down for a few minutes before attempting to restart the air cleaner. Press the rest button (A) and press the On button (B) to restart air cleaner.

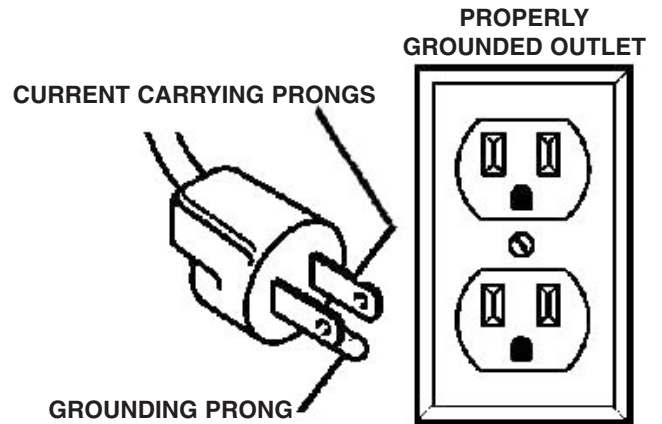


FIGURE 1

<u>LENGTH OF EXTENSION CORD</u>	<u>WIRE SIZES REQUIRED (AMERICAN WIRE GAUGE) 110V-120V LINES ONLY</u>
0-25 FEET	NO.16
26-50 FEET	NO.16
51-100 FEET	NO.14

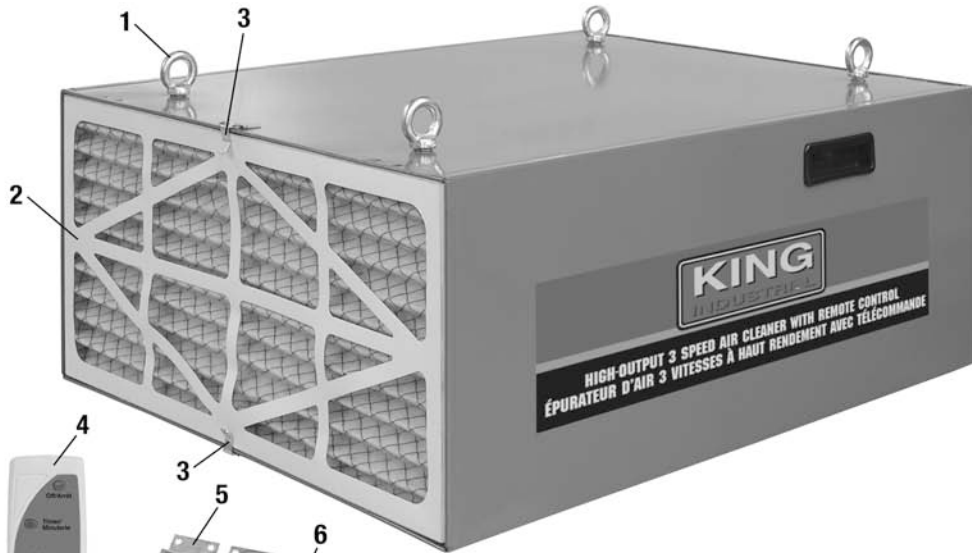
FIGURE 2



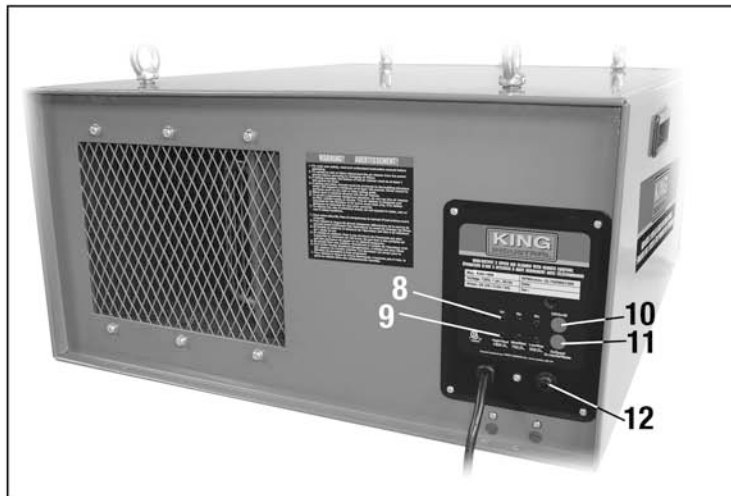
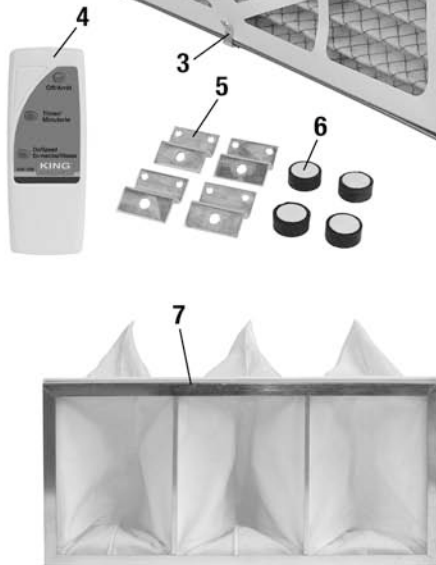
FIGURE 3



GETTING TO KNOW YOUR AIR CLEANER



1. Hanging eye bolts (4)
2. 5 micron outer filter
3. Filter retaining clips (2)
4. Remote control
5. Ceiling mounting brackets
6. Adhesive rubber feet (4)
7. 1 micron inner filter
8. Timer setting LED indicators
9. Motor speed LED indicators
10. Off button
11. On/Speed setting button
12. Reset



SPECIFICATIONS

Air suction capacities	556, 702, 1050 CFM
Noise level reading at 36" at low speed.....	62 Db
Noise level reading at 36" at medium speed	67 Db
Noise level reading at 36" at high speed	69 Db
Motor	3 Amp. (2.5A/2A)
Motor speeds	(3) 750, 960, 1200 RPM
Auto timer setting.....	1, 2, 4 hours
Voltage.....	110V, 1 phase, 60 Hz
Outer filter dimensions (LxWxH)	23-3/8" x 7/8" x 11-1/2"
Outer filter.....	5 microns
Inner filter dimensions (LxWxH).....	23-3/8" x 9-1/2" x 11-1/2"
Inner filter	1 micron
Assembled dimensions (LxWxH)/weight	30-1/4" x 24" x 14"/ 55 lbs

SETTING UP THE AIR CLEANER



UNPACKING

The air cleaner is shipped complete in one carton. Carefully unpack the Air Cleaner and all loose items from the carton. **WARNING: DO NOT LIFT THE AIR CLEANER BY ITS POWER CORD.**

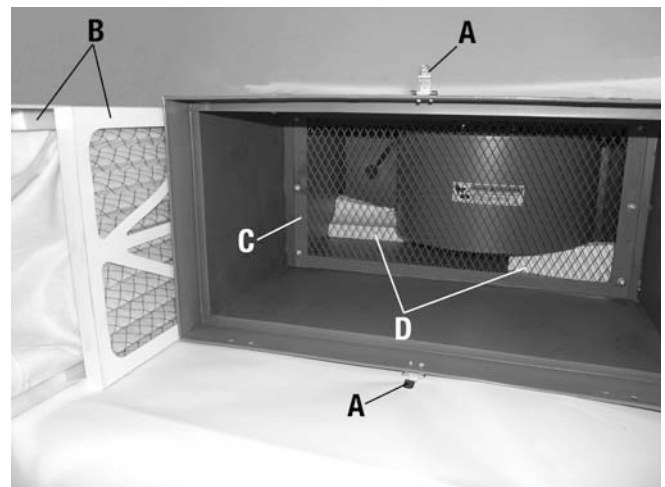


FIGURE 4

WARNING: STYROFOAM BLOCKS PLACED AROUND THE MOTOR AND IMPELLOR MUST BE REMOVED BEFORE OPERATING AIR CLEANER.

- 1) Pivot the upper and lower filter retaining clips (A) Fig.4 and pull out the outer and inner filters (B).
- 2) Remove the steel meshing (C) inside the air cleaner and remove the styrofoam blocks (D).
- 3) Reinstall the steel meshing, inner and outer filters and secure the filters with the retaining clips.

SETTING UP THE AIR CLEANER

Operational tips:

- This air cleaner will work best if it is located away from corners and heating/cooling vents.
- This air cleaner is specifically designed to circulate and filter non-metallic dust, which is generated throughout the work area.

Hanging air cleaner from ceiling

- 1) This air cleaner can be hung from the ceiling. Remove the four large pan head screws (A) Fig.5 from the top of the air cleaner housing using a Philips screwdriver.
- 2) Install the four air cleaner eye bolts (B) Fig.5 to the top of the air cleaner housing.
- 3) Mount ceiling hooks and chains (not included) properly rated for hanging this unit (minimum 60 lbs capacity) in the ceiling to mount the air cleaner.

Mounting air cleaner to ceiling or wall

- 1) Four brackets (A) Fig.6 can also be used for mounting to a ceiling or wall.
- 2) Place one end of bracket underneath the lip of the air cleaner cabinet (B).
- 3) Secure the bracket (A) to the cabinet with two hex. bolts, spring washers and washers (C) as shown in Fig.6. Repeat steps for the remaining three brackets.
- 4) Secure air cleaner to ceiling or wall with appropriate hardware (not included).

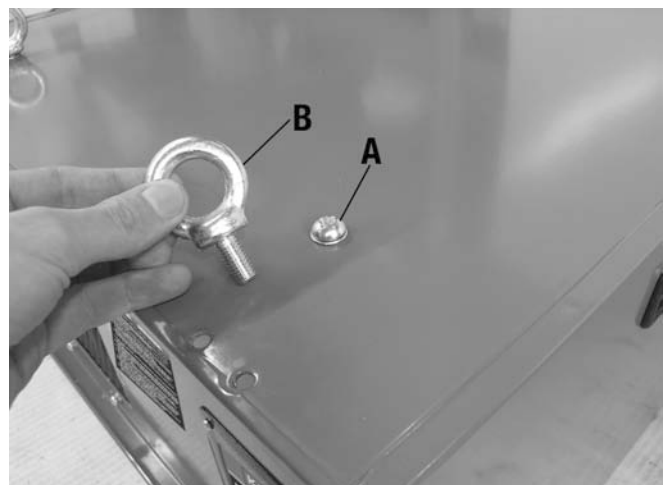


FIGURE 5

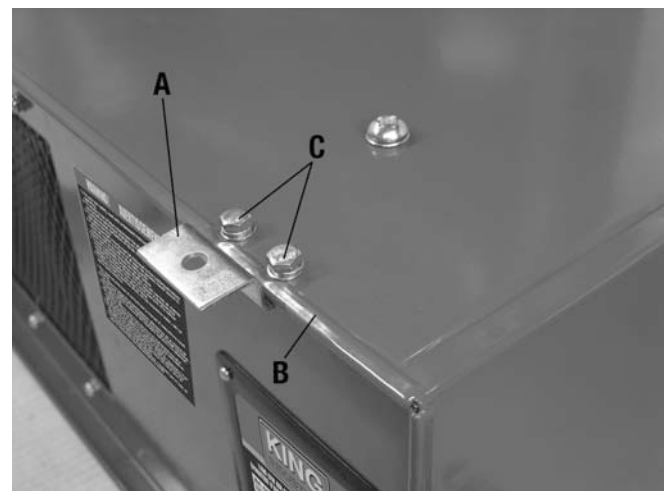


FIGURE 6

WARNING! Ceiling hooks or mounting brackets must be anchored to the building structure, which will support a minimum of at least 100 pounds. Never mount to drywall or false ceiling grids. Hang/mount unit with a 7ft. clearance from the floor.



OPERATION

OPERATION

WARNING! NEVER OPERATE THE AIR CLEANER WITHOUT THE INNER AND OUTER FILTERS PROPERLY INSTALLED IN THE CABINET.

Operating the control panel

The control panel (A) Fig.7 allows you to manually turn the air cleaner On or Off and set the motor/fan speed.

Thermal overload protector: When the motor is overloaded the reset button (B) Fig.7 will trip and the motor will turn off. See Electrical Information for more information.

On/Speed button: (C) Fig.7 The On/Speed button turns the air cleaner On, it also controls the three different motor/fan speed settings (low, medium, high). Press the On/Speed button repeatedly to cycle through the speed settings. The selected speed is indicated by the red LED indicators (D) Fig.7.

Off button: (E) Fig.7 The Off button turns the air cleaner Off.

Operating the remote control

On/Speed button: (A) Fig.8 The On/Speed button on the remote control turns the air cleaner On, it also controls the three different motor/fan speed settings (low, medium, high). Press the On/Speed button repeatedly to cycle through the speed settings. The selected speed is indicated by the red LED indicators (D) Fig.7 on the control panel.

Timer button: (B) Fig.8 controls the three different settings which are:

1H- The 1hr. LED indicator (F) Fig.7 on the control panel will light up with one press of the timer button. The air cleaner will operate for 1 hour and then will shut off automatically.

2H- The 2hr. LED indicator (F) Fig.7 on the control panel will light up by pressing the timer button two times. The air cleaner will operate for 2 hours and then will shut off automatically.

4H- The 4hr. LED indicator (F) Fig.7 on the control panel will light up by pressing the timer button three times. The air cleaner will operate for 4 hours and then will shut off automatically.

Off button: (C) Fig.8 The Off button turns the air cleaner Off.

CHANGING FILTERS

WARNING! To reduce the risk of injury, disconnect the air cleaner from the power source before servicing or changing filters. Failure to comply may cause serious injury!

The two filters included will eventually need to be replaced. The outer filter can easily be removed by pivoting the two retaining clips of the cabinet and pulling out the outer filter. The inner 3 pocket filter can now be pulled out of the unit. The filters should be replaced depending on the amount of usage and the environment of your shop. Clogged filters will reduce the amount of air circulation. Replacement filters are available at your nearest KING CANADA retailer.

Replacement filters;

Model KW-141- 5 micron outer filter

Model KW-142- 1 micron inner 3 pocket filter

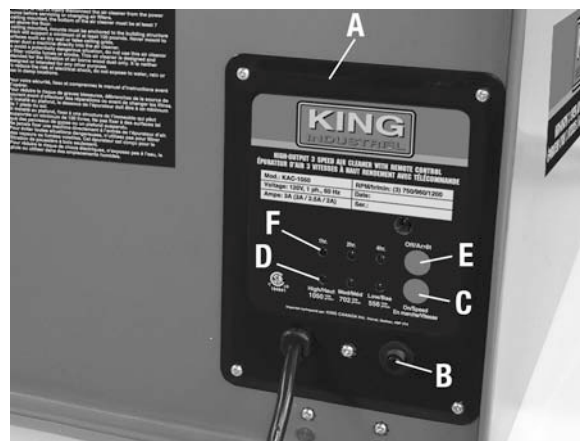


FIGURE 7

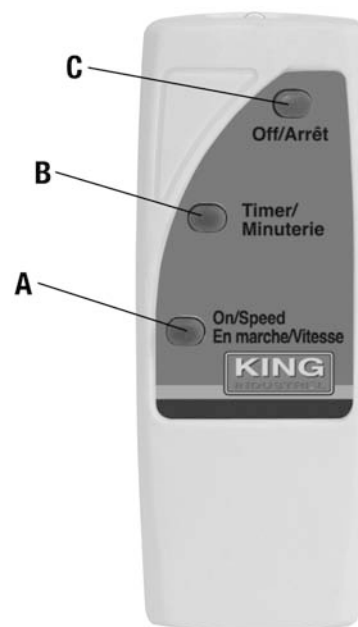


FIGURE 8