



# PORTABLE VARIABLE SPEED METAL CUTTING BANDSAW

07/2017



MODEL: KC-8377

## INSTRUCTION MANUAL

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## WARRANTY INFORMATION

**2-YEAR  
LIMITED WARRANTY  
FOR THIS BANDSAW**

**KING CANADA TOOLS  
OFFERS A 2-YEAR LIMITED WARRANTY  
FOR NON COMMERCIAL USE.**

### **PROOF OF PURCHASE**

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

### **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](http://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.

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

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## GENERAL SAFETY INSTRUCTIONS

**VOLTAGE WARNING:** Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that for the specified tool can result in **SERIOUS INJURY** to the user - as well as damage to the tool. If in doubt **DO NOT PLUG IN THE TOOL**. Using a power source with voltage less than the nameplate is harmful to the motor.

### 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. REMOVE ADJUSTING KEYS AND WRENCHES.

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

### 3. 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.

### 4. KEEP CHILDREN AWAY.

All visitors should be kept a safe distance from work area. Use padlocks, master switches or remove starter keys.

### 5. 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.

### 6. 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 cutting operation is dusty.

### 7. DISCONNECT TOOLS.

Before servicing, when changing accessories or attachments.

### 8. 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.

## SPECIFIC SAFETY INSTRUCTIONS

### SPECIFIC SAFETY RULES

Safety is a combination of common sense, staying alert and knowing how your Bandsaw works. Read and understand the following safety rules before operating.

- 1) Make sure the tension lever is in the tightened position before each use.
- 2) Never leave Bandsaw unattended while it is running. Do not put down the Bandsaw until the blade has come to a complete stop.
- 3) Make sure your workpiece is fixed down before attempting to cut.
- 4) To avoid snagging, work slowly and carefully when cutting sharp edges and corners.
- 5) Turn the machine off if the tool is to be backed out of an uncompleted cut.
- 6) Do not operate this Bandsaw using a dull or worn blade.
- 7) Set-up workpiece before turning on tool.
- 8) When starting a cut, maintain a firm grip with both hands in order to resist the starting torque. Let the tool do the work.
- 9) Wear suitable work gloves to reduce the vibration effects during use.
- 10) To reduce the risk of injury from accidental starting, make sure your finger is off the trigger and Bandsaw is unplugged before changing the set-up, removing cover, guard or the blade.
- 11) Check the alignment of moving parts, binding of moving parts, breakage of parts, Bandsaw stability and any other conditions that may affect the way the Bandsaw works.
- 12) If any part is missing, bent or broken in any way, or if any electrical parts do not work properly, unplug the Bandsaw. Replace damaged or missing parts before using the Bandsaw again.
- 13) Make sure the blade teeth point downward.
- 14) Make sure the blade guides are properly adjusted.
- 15) Before starting your cut, watch the saw while it runs. If it makes an unfamiliar noise or vibrates a lot, stop immediately. Turn the Bandsaw off and unplug. Do not restart until you have found and corrected the problem.
- 16) Let the blade reach full speed before cutting.
- 17) Cut only one workpiece at a time. **Caution:** Never cut hard metals with the 14 TPI blade included with this Bandsaw, only wood and soft materials.

## ELECTRICAL INFORMATION

### ELECTRICAL INFORMATION

**WARNING:** YOUR BANDSAW MUST BE CONNECTED TO A 120V, 15-AMP. BRANCH CIRCUIT. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

#### 120V OPERATION

As received from the factory, your Bandsaw is ready to run for 120V operation. This Bandsaw is intended for use on a circuit that has an grounded outlet and a grounded plug which looks like the one illustrated in Fig.1.

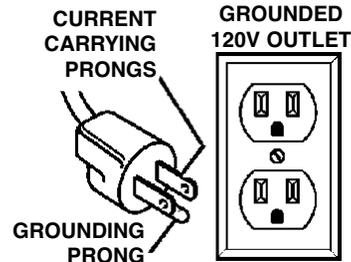


FIGURE 1

#### GROUNDING

This Bandsaw 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 Bandsaw is equipped with a cord having an equipment-grounding conductor. 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 BANDSAW, DO NOT REMOVE OR ALTER THE PLUG GROUNDING PRONG IN ANY MANNER.

Tool's Amperage Rating	Cord Size in A.W.G.			
	Cord Length in Feet			
	25	50	100	150
3-6	18	16	16	14
6-8	18	16	14	12
8-10	18	16	14	12
10-12	18	16	14	12
12-16	14	12	-	-

FIGURE 2

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 BANDSAW 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 chart in Fig.2 to determine the minimum wire size (A.W.G-American Wire Gauge) extension cord. Use only extension cords which accept the tool's plug.

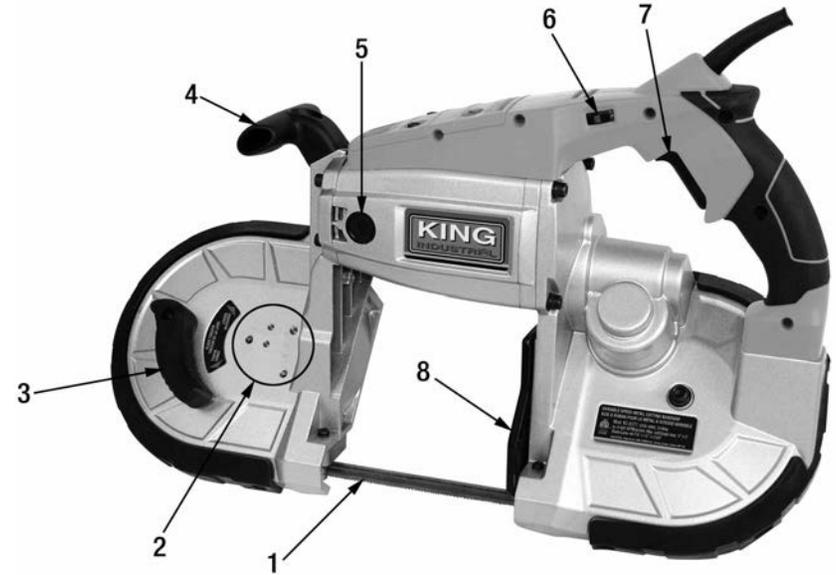
For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the motor. Refer to Fig.2 for wire length and size.

## GETTING TO KNOW YOUR METAL CUTTING BANDSAW

### Unpacking

Your Bandsaw has been shipped nearly completely assembled. Inspect it carefully to make sure no breakage or damage has occurred during transport. If any parts are missing, do not attempt to use the tool until you have obtained the missing parts from your King Canada retailer.

### Getting to know your Variable Speed Metal Cutting Bandsaw



- Blade.**
- Mounting points for optional stand.** An optional stand to transform this Bandsaw into a Cut-off saw is available (mod. SS-8377).
- Blade tension lever.** Applies tension to the blade.
- Auxiliary handle.** To maintain control of the Bandsaw during use, user should always hold this Bandsaw firmly by the main handle and this auxiliary handle.
- Carbon brush cap.** 1 of 2 carbon brush caps.
- Variable speed dial.** Sets the variable speed of the Bandsaw (0-420 SFPM).
- Trigger.** To turn the Bandsaw on, depress the trigger. Release trigger to stop the Bandsaw.
- Blade guard support plate.** Prevents material going into the rear blade guides.

MODEL	KC-8377
Cutting capacity	5"
No load speed	0-420 SFPM
Blade size	44-7/8" x 1/2" x 0.025" x 14 TPI
Motor	10 Amp.
Voltage	120V, 1 phase, 60 Hz
Ass. dimensions (LxWxH)/weight	20-1/2" x 7-1/2" x 12-1/2" / 16 lbs
Package dimensions (LxWxH)/weight	22" x 7-1/2" x 16-3/8" / 23.5 lbs

## ASSEMBLY & OPERATION

### ASSEMBLY

#### Installing the blade guard support plate

1. For proper operation, install the blade guard support plate (A) Fig.3. in the lowest position as shown. Remove the round head allen screws, washers and spring washers (B) from the tool using the supplied hex. key. Position and install the blade guard support plate (A) around the blade as shown using the removed round head allen screws, washers and spring washers (B). After operation, retract support plate to fit tool in carrying case.

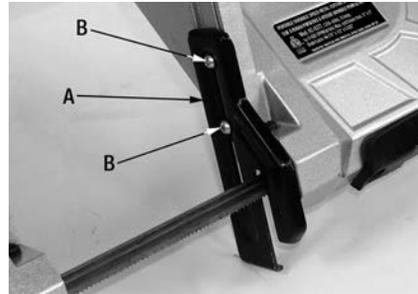


FIGURE 3

### OPERATION

#### Blade selection/changing blade

##### **WARNING! TO PREVENT SERIOUS INJURY:**

Before making any adjustments, or replacing a blade, disconnect power cord from power source. Always wear ANSI-approved safety glasses, heavy-duty work gloves, and heavy-duty long-sleeved shirt whenever handling or working near the blade. The blade can suddenly spring out during replacement. Only use blades designed for this Bandsaw.

The included blade (44-7/8" x 1/2" x 0.025"- 14 TPI) is ideal for cutting soft and/or thick material such as aluminum, lead, rubber based materials, plastics and wood.

If you desire cutting harder/thinner materials such as cast-iron, soft steel and hard steel, you will need to obtain another blade with more than 14 TPI.

1. Release the blade tension by turning the blade tension lever (A) Fig.4 clockwise as shown.
2. Set the frame of the Bandsaw down as shown in Fig.5 so that the edge of the used blade (A) Fig.5 is pointing towards you. Be careful, once the blade tension is released, the blade may spring out quickly.
3. Slide the old blade (A) out of the both blade guides (B) and then off both wheels (C).

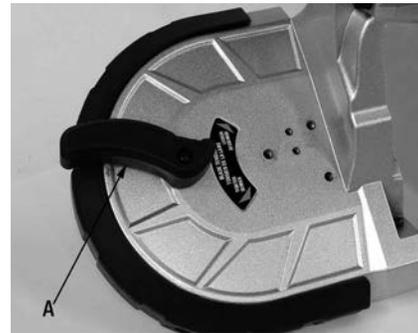


FIGURE 4

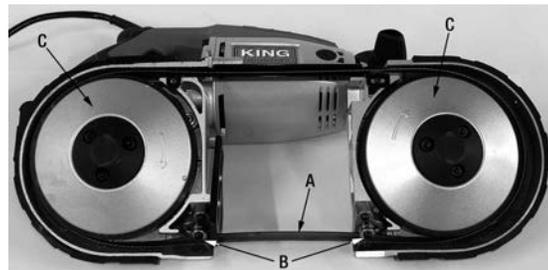


FIGURE 5

## OPERATION

#### Blade selection/changing blade continued...

4. When installing a new blade, make sure the blade teeth are pointing upward, facing you, as shown in Fig.6. Position the blade into both blade guide assemblies and around both wheels.
5. Center the blade on both wheels, make sure the blade is positioned so the ball bearings do not come in contact with the teeth of the blade. Refer to Fig.6. Once the blade is properly positioned, tension blade by turning the blade tension lever (A) Fig.4 counterclockwise.



FIGURE 6

Put on safety protection gear, then stay clear of the blade, plug in power cord and turn on the Bandsaw by depressing the trigger. Inspect the blade and make sure it runs steadily and evenly around on both wheels, and that the teeth are pointed in the correct direction. Adjust as needed.

#### Optional bi-metal blades available

Model KBB-8376-BM-1014 10-14 TPI metal cutting bi-metal blade  
Model KBB-8376-BM-1418 14-18 TPI metal cutting bi-metal blade

#### Cutting a workpiece

1. Secure your workpiece to a work bench, vise or any fixed surface.
2. Plug in tool into appropriate grounded 120V receptacle.
3. Make sure the power cord has been positioned away from the blade.
4. Position the blade guard support plate (A) Fig.3 up against your workpiece, but do not rest blade on workpiece.
5. Tilt the tool so that the blade is positioned vertically (90° to the workpiece).
6. Turn on the tool by depressing the trigger (A) Fig.7. Allow the blade to come up to full speed before starting the cut.
7. The blade will start turning in a counterclockwise direction.
8. Adjust speed of Bandsaw by adjusting the variable speed dial (B) Fig.7.
9. When starting the cut, do not apply too much pressure or lean into the cut, this may twist or break the blade. The tool's weight is sufficient to make a clean cut, be patient.
10. Once the cut is finished, release the trigger and allow the blade to come to a complete stop before placing tool down on work bench.

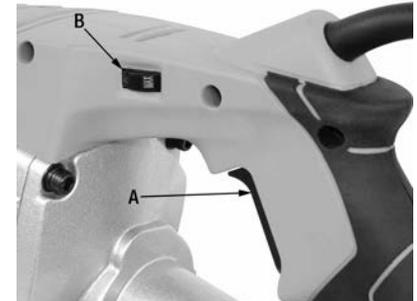


FIGURE 7

# MAINTENANCE

## Inspecting/Replacing Carbon brushes

Eventually, carbon brushes wear down and no longer make sufficient contact with the armature, when this happens, both carbon brushes need replacing. Replace when they wear down to the limit mark (A) Fig.9. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

To do this, unscrew the brush caps (A) Fig.8 (on both sides of motor housing). Slide carbon brushes (B) out of carbon brush holders (C). Check carbon brush for spring damage and remove any dirt. If carbon brushes are completely worn, replace them with new ones (carbon end placed first inside the brush holders), reinstall brush caps.

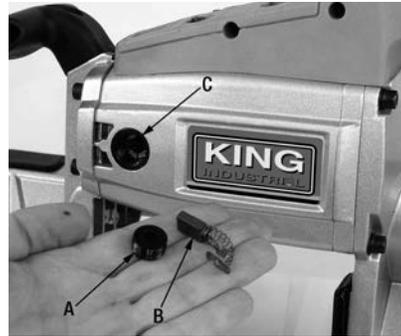


FIGURE 8

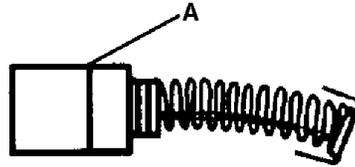


FIGURE 9

## Blade Wheels

Swarf, pitch and sawdust that build up on the blade wheels should be removed with a brush or scrape the sawdust with a piece of wood. NOTE: To reduce the risk of damaging the blade wheels, do not use a sharp knife or any kind of solvent.

## Cleaning

Keep your Bandsaw clean. Remove the sawdust or cuttings from the inside. Vacuum or blow out frequently. Do not allow residue to build up on the blade guides or the back-up bearings. Clean them with gum and pitch remover. Do not immerse the back-up bearings in the gum and pitch remover.

## Motor

Frequently blow or vacuum out sawdust and cuttings from the motor. CAUTION: To reduce the risk of eye injury from blowing debris, wear safety glasses when blowing out dust.

## Lubrication

All of the ball bearings are packed with grease at the factory. They require no further lubrication.