KING INDUSTRIAL

8” LOW SPEED LONG SHAFT BUFFER

MODEL: KC-899LSB

INSTRUCTION MANUAL

WARRANTY INFORMATION

2-YEAR LIMITED WARRANTY FOR THIS 8" LOW SPEED BUFFER	**KING CANADA TOOLS OFFERS A 2-YEAR LIMITED WARRANTY FOR COMMERCIAL USE.**

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 centres across Canada. Please use the 10 digit part numbers listed in this manual for all part orders where applicable.

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 centre, 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 centre. Contact your retailer or visit our web site at www.kingcanada.com for an updated listing of our authorized service centres. In cooperation with our authorized service centre, 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

www.kingcanada.com

GENERAL & SPECIFIC SAFETY INSTRUCTIONS

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. KEEP GUARDS IN PLACE.
Keep in good working order, properly adjusted and aligned.

3. REMOVE ADJUSTING KEYS AND WRENCHES.
Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

4. 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.

5. 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.

6. KEEP CHILDREN AWAY.
All visitors should be kept a safe distance from work area.

7. MAKE WORKSHOP CHILD-PROOF.
Make workshop child-proof with padlocks, master switches or by removing starter keys.

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

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

10. 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.

11. 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.

12. DON'T OVERREACH.
Keep proper footing and balance at all times.

13. MAINTAIN TOOL WITH CARE.
Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

14. DISCONNECT TOOLS.
Before servicing, when changing accessories or attachments.

15. AVOID ACCIDENTAL STARTING.
Make sure the switch is in the ''OFF'' position before plugging in.

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

17. 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.

18. CHECK DAMAGED PARTS.
Before further use of a tool, the guard or other parts 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.

19. 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 BUFFER

1. **INSTALL THE BUFFER** on a stand or workbench to prevent buffer from moving or tipping during use. See Assembly Instructions.
2. **WEAR TIGHT GLOVES** when buffing, the workpieces can get hot or have sharp edges. Gloves should be tight so they will not get caught in the buffing wheel. Leather gloves are recommended.
3. **NEVER BUFF SMALL WORKPIECES** without them being properly held by pliers or clamps, or they will be ripped out of your hands and possibly cause harm to you or damage the item.
4. **DO NOT STAND IN FRONT OF THE BUFFER**. Stand to one side of the Buffer and turn it "ON". Wait at the side for one minute until the machine comes up to full speed. There is always a possibility that debris from a glazed or damaged buffing wheel may be discharged towards the operator.
5. **ALLOW THE BUFFER TO REACH FULL SPEED BEFORE BEGINNING WORK**. Hold the work piece securely, and slowly ease the work into the buffing wheel. Be careful of any sharp edges or corners that may catch on the wheel and be torn from your hands.
6. **DO NOT** buff using the sides or the rear of the buffing wheels. Buff only on the wheel slightly below the wheel center.
7. **NEVER STOP THE BUFFER BY FORCING MATERIAL INTO THE WHEEL**. Let the buffer stop rotating on its own.
8. **RESURFACE/DRESS THE BUFFING WHEEL OFTEN.** This will keep the wheel surface free of residue and glaze. Use a metal rake or stiff wire brush.
9. **THE DIAMETER OF THE BUFFING WHEELS WILL DECREASE WITH USE**. Replace the buffing wheels when they become too small for effective buffing, or when the sewn or bonded material break apart.
10. **REPLACE A DAMAGED BUFFING WHEEL IMMEDIATELY**. A damaged wheel can discharge debris at a high velocity towards the operator. Tighten the spindle nuts just enough to hold the buffing wheels firmly on the arbors. DO NOT overtighten the spindle nuts. Only use the wheel flanges provided with the buffer. When selecting a replacement buffing wheel, use only properly sized wheels, and verify that the wheel has a higher RPM rating than the maximum RPM of the Buffer.

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 MACHINE DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!

POWER SUPPLY

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

GROUNDING

This Buffer 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 Buffer 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 BUFFER, DO NOT REMOVE OR ALTER THE PLUG GROUNDING PRONG IN ANY MANNER.

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 BUFFER 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.

120V OPERATION

Your Buffer comes wired for 120V operation. The plug and the required wall outlet are illustrated in Fig.1.

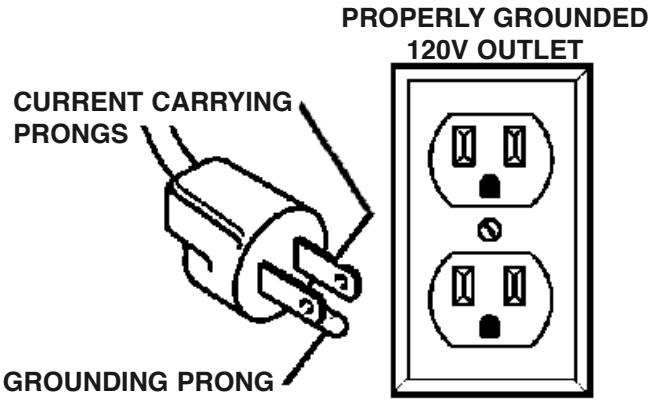


FIGURE 1

Tool's Amperage Rating	Cord Size in A.W.G.			
	Cord Length in Feet			
	25	50	100	150
0.1-6	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

EXTENSION CORDS

The use of any extension cord will cause some loss of power.
Depending on the length of extension cord needed, use the table (Fig.2) to determine the minimum wire gauge (A.W.G-American Wire Gauge). 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 thickness must be increased proportionately in order to deliver ample voltage to the motor. The smaller the gauge of the extension cord, the thicker it will be in diameter. Refer to Fig.2 for wire length and size.

USING ON/OFF SWITCH WITH REMOVABLE SAFETY KEY

The On/Off switch (A) Fig.3 is used to turn the Buffer on and off. To turn the Buffer "On", move the switch upwards (On position), to turn the BUffer "Off", move the switch downwards (Off position).

This switch comes with a removable safety key (B). When the safety key is removed from the switch and placed in a safe location, unauthorized persons or children can't turn the switch to the On position. It is recommended to always remove the safety key from the switch whenever the Buffer is not in use. To remove the safety switch, make sure the switch is in the Off position and simply pull out the safety key.

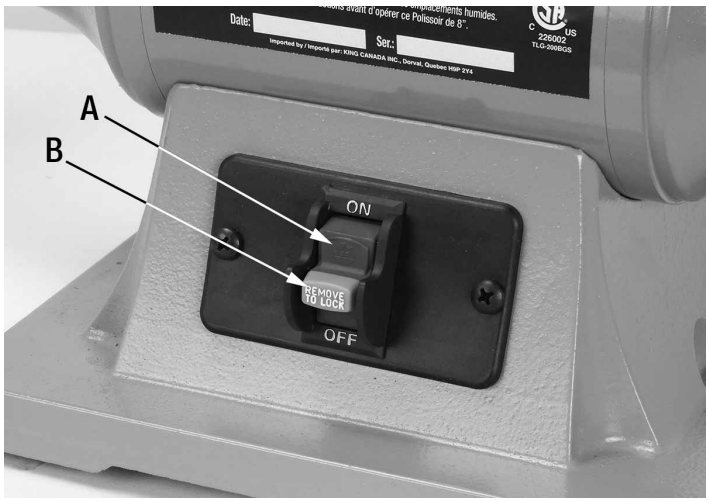
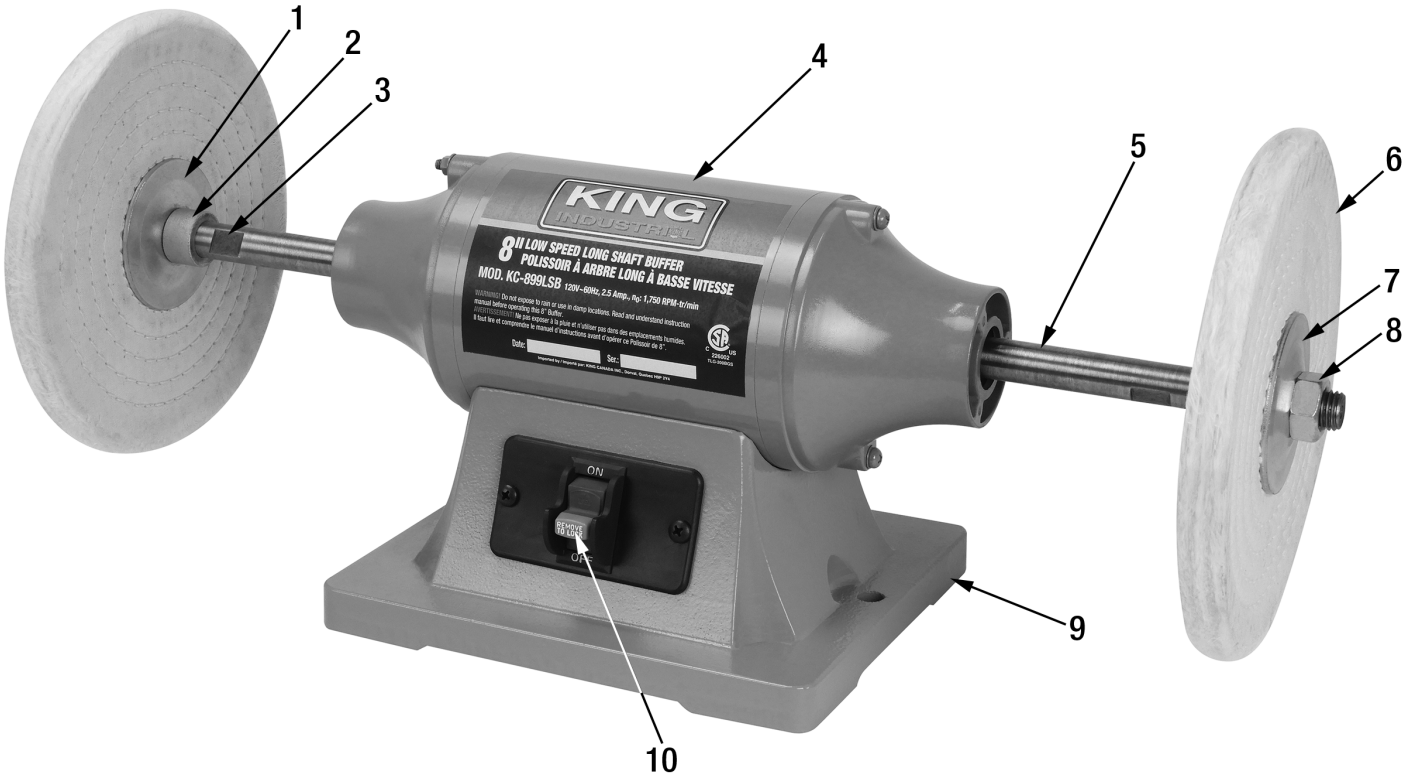


FIGURE 3

GETTING TO KNOW YOUR LOW SPEED BUFFER



1. Inner flange washer (1 of 2)
2. Arbor bushing (1 of 2)
3. Flat in shaft (both sides)
4. Motor
5. 5-1/2” long shafts
6. Polishing wheel (8” x 1/2”)(1 of 2)
7. Outer flange washer (1 of 2)
8. Arbor nut (1 of 2)
9. Base with mounting holes
10. On/Off switch with removable safety key

SPECIFICATIONS

MODEL	KC-899LSB
Buffing wheel diameter	8”
Arbor shaft diameter	5/8”
Motor no load speed	1,750 RPM
Length of shafts	5-1/2”
Maximum wheel width	1-3/8”
Recommended runtime	30 minutes
Motor	1/2 HP, 2.5 Amp.
Voltage	120V, 1 phase, 60 Hz
Assembled dimensions (LxWxH)/weight	22-1/4” x 7-5/8” x 7-1/2” / 21 lbs
Package dimensions (LxWxH)/weight	26-1/2” x 8-7/8” x 9-7/8” / 24 lbs

ASSEMBLY & OPERATION

MOUNTING YOUR BUFFER TO A STAND, SUPPORT OR WORKBENCH

To avoid serious injury, IT IS HIGHLY RECOMMENDED to mount your Buffer to a stand, support board or workbench before using. If the Buffer is not securely mounted, it could move or tip over during operations, and possibly causing damage to your workpiece or buffer and any surrounding items.

This Buffer comes with 2 mounting holes (A) Fig.4 in the base to secure the Buffer to a solid support or workbench (mounting hardware, support and workbench are not included).

King Canada offers an optional stand (model SS-150) (B) Fig.4 which can used for this purpose. Contact your local distributor of King Canada products for more information.

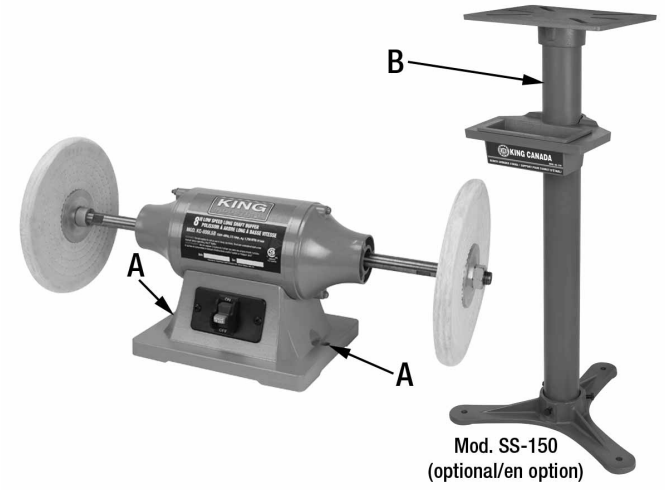


FIGURE 4

INSTALLING BUFFING WHEELS

WARNING! Before you attempt to use this Buffer, read the assembly and operation instructions first, make sure the power cord is not plugged to a power source, and that the on/off switch is in the Off position.

1. Install the arbor bushing (A) Fig.5 by sliding it onto one of arbor shafts.

NOTE: The arbor bushings are required when installing the included 8" x 1/2" thick polishing wheels, they are not required when mounting several, or thicker polishing wheels (1-3/8" max thickness). This sets the flange washers and polishing wheel away from the step in the arbor far enough so that the arbor nuts can be threaded onto the arbor to secure the wheels in place.

2. Slide the inner flange washer (B) Fig.5 onto the shaft. Make sure the 'cup' side is facing towards the threaded end of the shaft.

3. Slide the buffing wheel (C) onto the shaft and butt it against the inner flange washer.

4. Slide the outer flange washer (D) Fig.5 onto the shaft and butt it against the buffing wheel. The 'cup' side should be facing towards the buffing wheel.

5. Thread the arbor nut (E) Fig.5 onto the shaft to secure the buffing wheel. Do not hand tighten, but also do not overtighten. Each shaft comes with a flat (F), position a 13mm open end wrench (not included) on the flat of the shaft and tighten arbor nut with a 24mm wrench (not included), just enough to secure the buffing wheel.

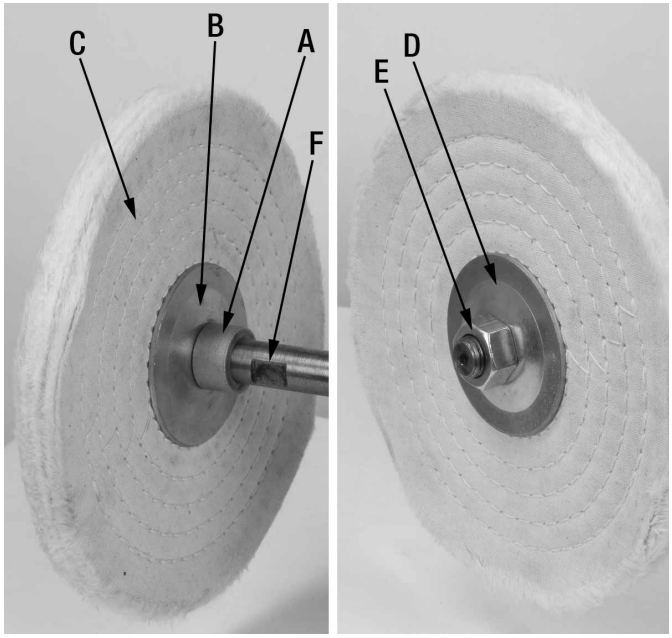


FIGURE 5

NOTE: The left side arbor shaft comes with a left hand thread arbor nut. It is installed by rotating it counterclockwise onto the left side arbor shaft. The right side arbor shaft comes with a right hand thread arbor nut. It is installed by rotating it clockwise onto the shaft.

6. Install the second buffing wheel following the above procedures.

OPERATION

WARNING! USER MUST ALWAYS WEAR SAFETY GLASSES AND RESPIRATORY PROTECTION! User must protect himself/herself from flying residue or compound that can be thrown off from the buffing wheels during buffing and may cause injury.

WARNING! To avoid serious injury, never buff on the sides, top or rear of the cloth buffing wheels.

OPERATION & MAINTENANCE

OPERATING GUIDELINES

WARNING! Before you attempt to use this Buffer, read the assembly and operation instructions first.

1. Stand to the side of the Buffer and plug in the power cord to a power source.

2. Remain to the side, and turn Buffer “ON” by moving the switch to the up position (On).

3. Allow buffing wheels to come up to full speed for at least one minute before attempting to buff a workpiece.

4. Apply buffing compound (if needed) to the rotating rim of the buffing wheel. DO NOT force the compound onto the wheel with excessive pressure. Apply compound until the whole rim is covered. For the finishing or buffing of waxed surfaces, no compound is needed, use a clean cloth buffing wheel to finish polish these pieces.

NOTE: When using a polishing compound, follow manufacturer recommendations for application and usage.

5. Move the workpiece towards the buffing wheel until it lightly comes in contact. With back and forth movement across the lower front surface of the buffing wheel, buff your workpiece to the desired finish, refer to Fig.6.

IDEAL LOCATION TO BUFF ON BUFFING WHEELS

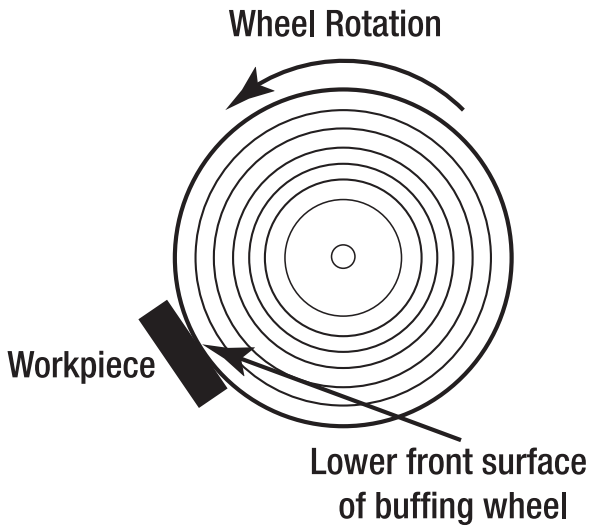


FIGURE 6

6. Never force your workpiece against the buffing wheel. Apply the workpiece slowly, allowing the buffing wheel a chance to adjust to the surface of your workpiece. Excessive pressure will slow down the buffing wheel and motor. This can cause uneven marks on the workpiece and will most likely overheat the motor.

7. It is recommended to check the buffing wheel every few minutes when starting a buffing operation. Verify the condition of the buffing wheel and the compound that was previously applied to the rim of the buffing wheel. If the buffing wheel is worn or damaged, remove and replace it immediately. If the rim surface is glazed over from material residue from buffing, or to apply a new/different grade of compound, use a buffing rake (not included) to remove the old compound from the buffing wheel.

8. Once your operation is completed, turn the Buffer Off by pushing down on the On/Off switch.

NOTE: It may take several minutes for the buffing wheels to come to a complete stop. NEVER STOP THE BUFFING WHEELS BY FORCING MATERIAL INTO THEM. Let the buffing wheels come to a complete stop on their own.

9. Unplug the Buffer from the power source, and remove the switch safety key to prevent unauthorized use.

MAINTENANCE

FREQUENT INSPECTION AND MAINTENANCE

The Low Speed Buffer should be inspected and maintained frequently. Check and make sure the power cord, internal wires, plug and switch are in good condition. Check the condition of the buffing wheels before every use. Service should be done by a qualified service technician using identical replacement parts.

REPLACING BUFFING WHEELS

WARNING! Unplug power cord before changing buffing wheel(s).

Refer to the “Installing Buffing Wheels” instructions in this manual. Follow instructions in reverse order to remove the buffing wheel. A 2 Pc. replacement 8” x 1/2” spiral sewn cloth buffing wheels kit (model KM-131) is available, contact your local distributor of King Canada products for more information.

STORAGE

Store the Low Speed Buffer in a clean and dry place away from the reach of children. Remove switch safety key to prevent unauthorized use.

PARTS DIAGRAM & PARTS LISTS

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