



1/2" DRILL & MIXING KIT

05/2016



MODEL: KC-8316

INSTRUCTION MANUAL

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WARRANTY INFORMATION

2-YEAR LIMITED WARRANTY FOR THIS DRILL & MIXING KIT

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.

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.

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

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GENERAL & SPECIFIC SAFETY INSTRUCTIONS

1. KNOW YOUR TOOL

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

2. 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.

3. USE RIGHT TOOL.

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

4. 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.

5. MAINTAIN TOOL WITH CARE.

Keep tool clean for best and safest performance. Follow instructions for operation and changing accessories.

6. DISCONNECT TOOLS.

Before servicing, when changing accessories or attachments.

7. AVOID ACCIDENTAL STARTING.

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

8. USE RECOMMENDED ACCESSORIES.

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

9. CHECK FOR DAMAGED PARTS.

Before further use of the tool, a guard or other parts that are damaged should be carefully checked to ensure 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 which are damaged should be properly repaired or replaced.

Specific Safety Instructions

1. **Use clamps** or any other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

2. **Do not use the tool** if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

3. **Do not mix** any materials or substances that contain solvents with a flash point below 21°C.

4. **Before mixing material**, always remember to start or stop the tool while the mixing paddle is submerged in the material. Make sure your mixing bucket is set on a leveled and firm surface.

5. **When mixing**, always use the D-handle and the 3 position handle.

6. **Do not reach** into the mixing bucket with your hands during a mixing operation.

7. **Always wear** safety glasses and protective gloves during a mixing operation.

8. **Do not wear** loose fitting clothing during a mixing operation, they could get caught on moving parts.

ELECTRICAL INFORMATION

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Note: Performance of this tool may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

VOLTAGE WARNING

Before connecting the tool to a power source (receptacle, outlet, ect.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. If one says 120V and the other says 115V then there will be no complications. Never try to plug a 120V tool into a 240V outlet, or the other way around. A voltage greater than that specified on the 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.**

DOUBLE INSULATION

Double insulated tools are equipped with a polarized two-prong plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not alter or change the plug in any way. Double insulation eliminates the need for three wire grounded power supply and grounded power cords.

EXTENSION CORDS

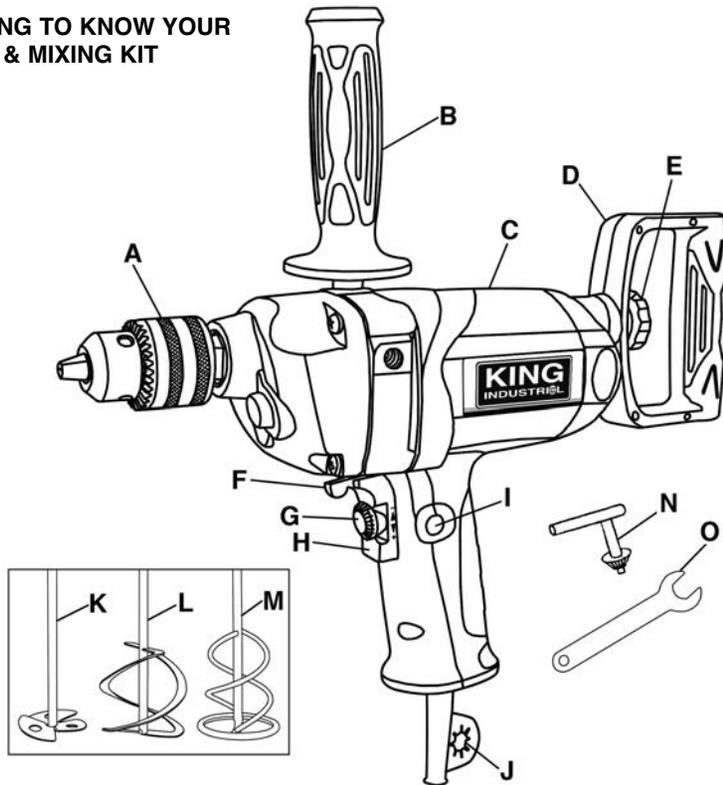
Improper use of extension cords may cause inefficient operation of your tool which can result in overheating. Be sure your extension cord is rated to allow sufficient current flow to the motor. If you are using the tool outdoors, use an extension cord rated for outdoor use (signified by "WA" on the jacket).

The extension cord must have a minimum wire size depending on the amperage of the tool and the length of the extension cord. This size is determined by its AWG (American Wire Gauge) rating. The smaller the gauge, the greater the cable's capacity. The amount of cords used does not matter: Total length determines the minimum AWG rating. Every cord must meet the AWG rating. Use the chart below to determine what AWG rating is required for your situation. Cord length is rated in feet.

| <u>LENGTH OF CONDUCTOR</u> | <u>WIRE SIZE REQUIRED (AMERICAN WIRE GAUGE)</u> |
|----------------------------|---|
| | <u>120V LINES</u> |
| 0-25 FEET | NO.14 |
| 26-50 FEET | NO.14 |
| 51-100 FEET | NO.12 |

GETTING TO KNOW YOUR TOOL

GETTING TO KNOW YOUR DRILL & MIXING KIT



- A. 1/2" Chuck
- B. 3 position (top or sides) handle
- C. Drill
- D. 360° D-handle
- E. D-handle lock knob
- F. Forward/reverse lever
- G. Speed control selector dial
- H. Trigger
- I. Trigger lock-on button
- J. Chuck key holder
- K. Mixing paddle (Paint)
- L. Mixing paddle (Plaster/drywall mix)
- M. Mixing paddle (Tile adhesive, mortar mix)
- N. Chuck key
- O. Adjustment wrench

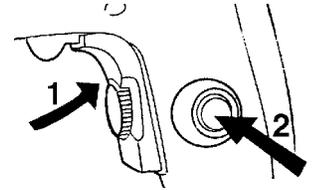
SPECIFICATIONS

| | |
|---------------------------|-----------------------|
| Model | KC-8316 |
| Amperage | 9A |
| Voltage | 120V |
| Cycle/Phase | 60Hz, 1 phase |
| No load speed (RPM) | 0-600 |
| Chuck size | 1/2" |
| Mixing paddles | 24" (10mm hex. shank) |
| Insulation class | Double |

OPERATION

SWITCH ACTION

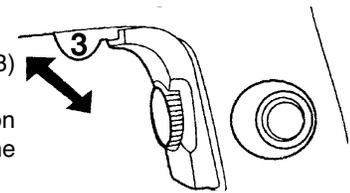
WARNING: Before plugging into power source, make sure the trigger switch can be pressed down smoothly and will return to its "OFF" position when the trigger is released. The drill is equipped with a "Lock-On" button which is convenient when continuous drilling for extended periods of time is required.



- Press down trigger switch to start work, and release to stop work.
- To have continuous operation, press down the trigger switch (1) and push the "Lock-on" button (2) located on the side of the handle, then release the trigger.
- The drill will continue running after the release of the "Lock-on" button. To stop working, release the trigger switch.
- When "Lock-on" feature is engaged during use and the drill becomes disconnected from the power supply, disengage the "Lock-on" feature immediately.

REVERSIBLE ROTATING DIRECTION

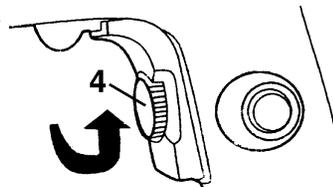
The rotating direction of the drill is controlled by a lever (3) located above the trigger.



- With the drill held in normal operating position, direction of rotation lever should be positioned to the right of the trigger for forward drilling operation.
 - Direction of rotation is in reverse when the lever is to the left of the trigger.
- NOTE:** The drill will not operate unless the rotation lever is pushed fully to the left or right.
Stop drill before changing rotation!

SPEED CONTROL

The drill can be adjusted by using speed control selector dial (4).



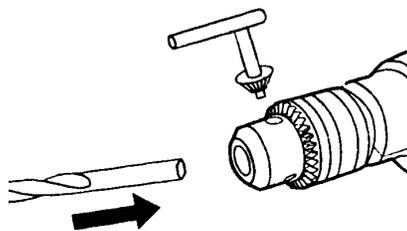
- Hold the tool in normal operation, and turn the variable speed control selector clockwise to increase the speed and torque. Turn counterclockwise to decrease the speed and torque.
- NOTE:** If the variable speed control selector is fully turned in counterclockwise direction (Zero Setting), your drill may not run.
- To lock the switch on at a given speed, depress the trigger, push in and hold the "Lock-on" button then release the trigger. Next, adjust the variable speed control selector dial until the desired speed is reached.
 - When you desire not to use the variable speed control selector dial, turn it fully in the clockwise direction. This will allow the speed of the drill to be fully controlled by the amount of trigger depression.

OPERATION

INSTALLING CHUCK & CHANGING DRILL BIT

- To install 1/2" chuck to the drill, simply screw the chuck on the drill arbor shaft. Place adjustment wrench on the flat of the arbor shaft and tighten chuck.
- To install a drill bit, first clean and remove any foreign objects away from the drill bit and chuck, otherwise the bit might not be tightened securely and thus producing unsatisfactory results and possible injury.
- Insert the drill bit into the chuck, make sure that the drill bit is in as far as it will go.
- Place the chuck key in one of the 3 holes, then tighten all three jaws of the chuck by rotating the chuck key clockwise.
- When dismantling the drill bit, loosen the three jaws with the chuck key, then remove the drill bit.

NOTE: Always remove chuck key before restarting drill.



INSTALLING MIXING PADDLES

Warning! For your own safety, before proceeding to a mixing operation, it is highly recommended to use both the D-handle and the 3 position handle.

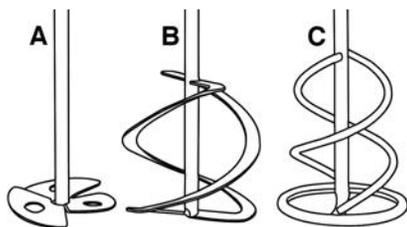
This mixing drill is designed to mix liquid or powdery building materials such as paint, mortar, adhesive, plaster and similar substances. To achieve the required mixing consistency, the correct mixing paddle must be installed.

Below is a list of recommended usage:

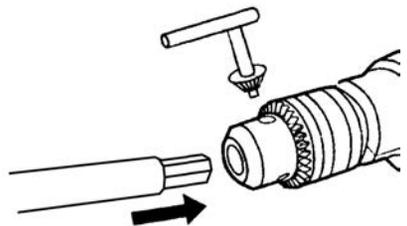
Mixing paddle **A**- Paint, lacquer, glazings, paste.

Mixing paddle **B**- Paint, ready mix plaster/drywall.

Mixing paddle **C**- Tile adhesive, ready mix mortar and pointing mortar.



- Insert the 10mm reduced shank end of the mixing paddle into the chuck, make sure that the mixing paddle is in as far as it will go.
- Place the chuck key in one of the 3 holes, then tighten all three jaws of the chuck by rotating the chuck key clockwise.
- When dismantling the mixing paddle, loosen the three jaws with the chuck key, then remove the mixing paddle.



- **Before mixing material**, always remember to start or stop the tool while the mixing paddle is emerged in the material. Make sure your mixing bucket is set on a leveled and firm surface.

MAINTENANCE

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IMPORTANT: To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustments should be performed by an authorized service center or other qualified service technician, always using identical replacement parts.

1. Air vents of the tool should be cleaned regularly to avoid overheating of the motor which is caused by the blocking of the air vents.
2. **DON'T** clean this tool with water, as no liquid is allowed in the tool body. Clean the tool with a dry clean cloth only. Compressed air at low pressure is also suitable.
3. **DON'T** allow petroleum based products to come into contact with the plastic parts of the tool, as they contain chemicals that can damage or destroy the plastic parts.

CARBON BRUSHES

Remove and check the carbon brushes regularly (normally after 50 hours of use). The carbon brushes are installed inside the motor housing. Using a screwdriver, remove the 4 pan head screws that hold the motor housing cap in place.

Remove the carbon brush from the motor housing and inspect it. Repeat this step for the second carbon brush. Carbon brushes need to be replaced once they wear down to the small limit mark. Keep the carbon brushes clean and free to slip in the holders.

If they have worn down to the limit mark, purchase a set of identical replacement carbon brushes (both carbon brushes should be replaced at the same time). Install new carbon brushes and reinstall the motor housing cap using the 4 pan head screws.

If you are unsure about these instructions, we recommend that you get a qualified service technician to replace the carbon brushes. Contact a King Canada service centre.

PARTS DIAGRAM & PARTS LISTS

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