



KING KING CANADA

VARIABLE SPEED ROUTER/TRIMMER COMBO KIT



MODEL: 8366K

INSTRUCTION MANUAL

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WARRANTY INFORMATION



**2-YEAR
LIMITED WARRANTY
FOR THIS ROUTER/TRIMMER 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.

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 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 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. **ALWAYS SWITCH OFF AND WAIT.** Wait for the bit to come to a complete stop before any type of adjustment or maintenance.

2. **Before operation,** examine each bit carefully for chips, cracks or damage. Replace if damage is found.

3. **Avoid cutting into nails.** Check the workpiece to make sure it's free of nails.

4. **Hold the tool** with a firm, tight grip.

5. **Make sure that the bit** does not touch any workpiece before switching on the tool.

6. **Keep in mind the rotation direction** of the tool bit and the direction of the way you feed it in.

7. **Do not touch the bit** right after use! It will be very hot and can burn your skin.

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, etc.) 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 110V 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.

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	-	-



GETTING TO KNOW YOUR TOOL



- 1. Router/Trimmer
- 2. Variable speed selector dial
- 3. Storage bag
- 4. Depth stop screw
- 5. Plunge base locking lever
- 6. Plunge base
- 7. Edge guide holder
- 8. Collet nut adjustment wrench
- 9. Roller guide
- 10. 3 preset depth stops
- 11. Collet nut with 1/4" collet installed
- 12. 3/8" collet
- 13. Edge guide
- 14. 1-1/2" dust port
- 15. Quick release clamp and height adjustment knob
- 16. Fixed base
- 17. On/Off switch

SPECIFICATIONS

Model	8366K
Motor/Amperage	1-1/4 HP/6.5A
Voltage	120V
Cycle/Phase	60Hz, 1 phase
RPM	10,000 - 32,000
Collet capacity	1/4" & 3/8"
Insulation class	Double

ASSEMBLY



Installing or Removing Bits

Caution: Make sure the tool is switched off and unplugged before installing or removing a bit.

This Router/Trimmer kit comes with 2 collets (1/4" and 3/8"), this means 1/4" and 3/8" shank bits can be installed on this tool. If you desire to use a 1/4" or 3/8" shank bit, the corresponding collet would need to be placed in the tool chuck prior to installing bit.

First, remove the collet nut (A) Fig.1. Press the spindle lock button (B) to fix the tool spindle, using the supplied wrench, loosen and remove collet nut.

If you desire to use a 1/4" shank bit, the 1/4" collet (C) Fig.1 needs to be placed in the tool chuck as shown. Reinstall the collet nut, do not tighten.

Insert the bit (A) Fig.2 all the way into the collet (B), retract the bit 1/8" out of the collet and install the collet nut (C) securely using the spindle lock button to lock spindle and the provided wrench, turn clockwise to tighten. To remove the bit, follow these instructions in reverse order.

Caution: Never tighten the collet nut without inserting a bit, or the collet cone could break.

Installing Dust Port on Fixed Base

It is recommended to install and use the supplied 1-1/2" dust port (A) Fig.3 connected to a shop vac or dust collection system when using the fixed base (B).

One side of the dust port has a inner pin, position this pin into the hole in the side of the fixed base, secure the other side of the dust port using the small lock knob (C) Fig.3.

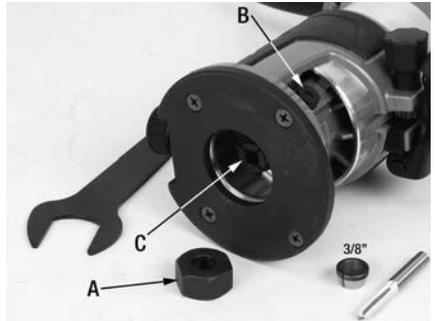


Figure 1

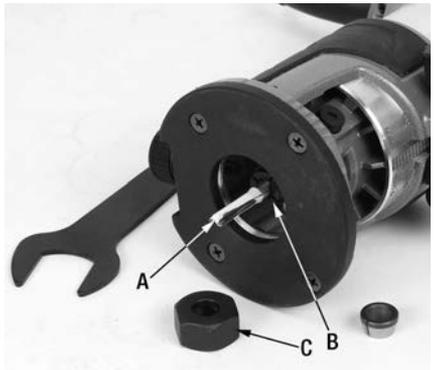


Figure 2



Figure 3



ADJUSTMENTS & OPERATION

Adjusting Depth of Cut

To adjust the protrusion of the installed bit (depth of cut), release the locking lever (A) Fig.4 and turn the adjustment knob (B) to move the body up or down. Now adjust the fixed base position until you reach your desired protrusion of the installed bit (depth of cut) past the bottom of the fixed base. This adjustment can be done using the scale (C) on the body. Once depth of cut is set, secure the locking lever (A).

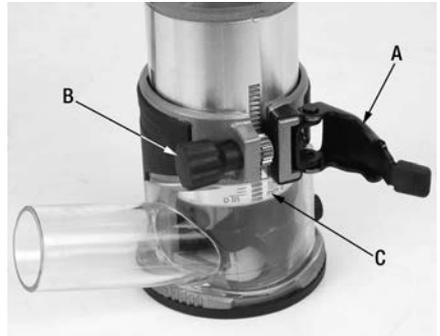


Figure 4

Caution: The depth of the cut adjustment should not be more than 1/8" each pass when cutting grooves. If you desire grooves greater than 1/8" deep, make several passes with progressively deeper bit settings.

Adjusting Variable Speed

This tool is capable of 10,000 - 32,000 RPM's and is controlled by a variable speed selector dial (A) Fig.5. To increase speed, turn selector dial towards the left, to decrease speed, turn selector dial towards the right.



Figure 5

The variable speed selector dial indicates numbers 1-6, below is an approximate speed for each setting:

- Setting 1: 10,000 RPM
- Setting 2: 12,000 RPM
- Setting 3: 17,000 RPM
- Setting 4: 22,000 RPM
- Setting 5: 27,000 RPM
- Setting 6: 32,000 RPM

Turning Tool On/Off

To start the tool, move the switch (A) Fig.6 to the "ON" position (symbol "I"). To stop the tool, move the switch to the "OFF" position (symbol "O").



Figure 6

ADJUSTMENTS & OPERATION



Operational Guidelines

Set the tool base on the workpiece to be cut without the bit making any contact. Then turn the tool on and wait until the bit reaches full speed. Move the tool forward over the workpiece surface, keeping the tool base flush and advancing smoothly until the cutting is complete.

When doing edge cutting, the workpiece surface should be on the left side of the bit in the feed direction (clockwise). When using the straight guide or the trimmer roller guide, make sure to keep it on the right side in the feed direction. This will help keep it flush with the side of the workpiece.

Caution: Moving the tool forward too fast may cause a poor quality cut, or damage the bit or motor. Moving the tool forward too slowly may burn and mar the cut. The proper feed rate will depend on the bit size, the type of workpiece and the depth of cut. It is recommended to make a test cut on a scrap piece of wood. Verify the cut and check your dimensions, adjust as necessary.

Installing/Using Straight Guide on Fixed Base

The straight guide is used for straight-line cuts when chamfering or grooving.

Before installation, the straight guide must be set up as shown in Fig.7. Attach the straight guide plate (A) Fig.7 to the straight guide (B) with the carriage bolt, washer, wing nut as shown.

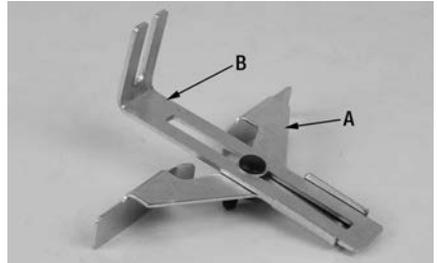


Figure 7

Loosen the fixed base lock knob (A) Fig.8. Slide the straight guide under the lock knob and tighten to secure in place. Loosen the wing nut on the straight guide and adjust the distance between the bit and the straight guide. Once set to the desired distance, tighten the wing nut securely. There are two holes in the straight guide which allow the carriage bolt, washer and wing nut to be installed further away as shown in Fig.9.

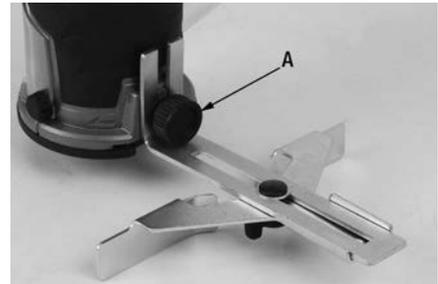


Figure 8

When cutting, move the tool with the straight guide flush with the side of the workpiece.

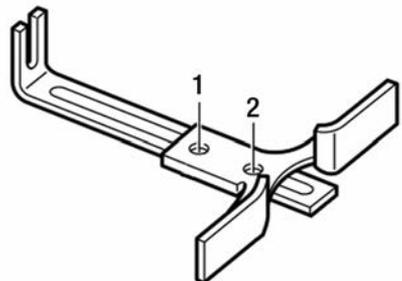


Figure 9



ADJUSTMENTS & OPERATION

Circular Cutting

Circular cutting may be accomplished if you assemble the straight guide and guide plate as shown in Fig 10. (Min. 2-3/4" to 4-3/4", Max. 4-3/4" to 8-11/16"). Minimum radius is 2-3/4" and maximum radius is 8-11/16". **Note:** Circles between 6-3/4" and 7-5/16" in radius can't be cut using this guide.

Align the centre hole in the straight guide with the centre of the circle to be cut. Drive a nail less than 1/4" in diameter into the centre of the hole to secure the straight guide. Pivot the tool around the nail in a clockwise direction.

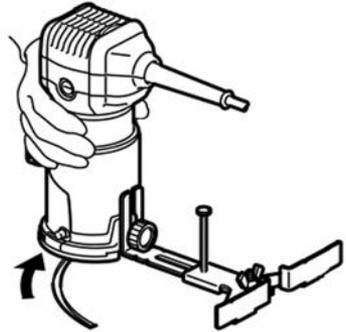


Figure 10

Trimmer Roller Guide

Trimming curved cuts can be done easily with the trimmer roller guide (A) Fig.11. The roller guide (B) rides the curve and assures a fine cut.

Loosen the fixed base lock knob (C) Fig.11. Slide the trimmer roller guide (A) under the lock knob and tighten to secure in place.

Loosen the fixed base lock knob (C) and adjust the distance between the bit and the trimmer roller guide by turning the adjust knob (D), 3/64" (1mm) per turn. At the desired distance, tighten the lock knob to secure the trimmer roller guide in place. When cutting, move the tool with the guide roller riding the side of the workpiece.

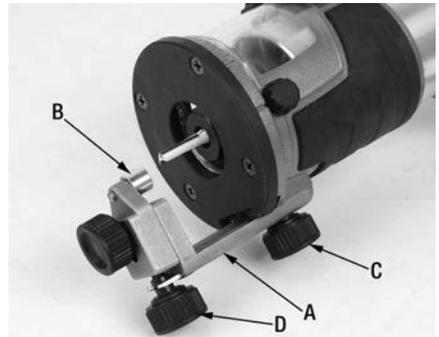


Figure 11

Installing Plunge Base/Using as a Plunge Router

To use this tool as a plunge router, first the fixed base must be removed from the tool, then install tool into plunge base.

Undo plunge base clamp (A) Fig.12 and slide tool all the way down into the plunge base (B), secure tool in plunge base using the clamp (A).



Figure 12

ADJUSTMENTS & OPERATION



Installing Plunge Base/Using as a Router continued...

Place the tool on a flat surface. Loosen the plunge base lock lever (A) Fig.13 and lower the tool body until the bit just touches the flat surface. Tighten the plunge base lock lever to lock the tool body.

Turn counterclockwise to loosen the stopper pole setting nut (B) Fig.13. Lower the stopper pole (C) until it makes contact with the adjusting bolt (D). Align the depth pointer (E) with the "0" graduation on the scale behind it. The depth of cut is indicated on the scale by the depth pointer.

Press and hold the fast-feed button (F) Fig.13, raise the stopper pole (C) until the desired depth of cut is obtained. Small depth adjustments can be made by turning the adjusting knob (G) (1mm per turn).

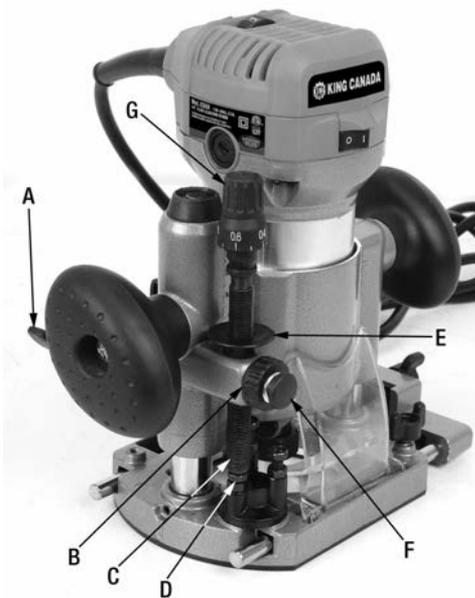


Figure 13

By turning the stopper pole setting nut (B) Fig.13 clockwise, you can fasten the stopper pole (C) firmly. Now, your predetermined depth of cut can be obtained by loosening the plunge base lock lever (A) and then lowering the tool body until the stopper pole (C) makes contact with the adjusting bolt (D) of the adjusting bolts stopper block.

Always firmly hold the tool by both grip handles during operation. Set the tool base on the workpiece to be cut without the bit making any contact. Then turn the tool on and wait until the bit attains full speed. Lower the tool body and move the tool forward over the workpiece surface, keeping the tool base flush and advancing smoothly until the cutting is complete.

When doing edge cutting, the workpiece surface should be on the left side of the bit in the feed direction.

Using Template Guide Adaptor with Plunge Base

It is possible to buy and install an optional Template Guide Adaptor on this plunge base. It is recommended to purchase Makita Template Guide model 321492-3.

Installing/Using Straight Guide on Plunge Base

The straight guide is used for straight-line cuts when chamfering or grooving.

Before installation, the straight guide must be set up as shown in Fig.7. Attach the straight guide plate (A) Fig.7 to the straight guide (B) with the carriage bolt, washer, wing nut as shown.



ADJUSTMENTS, OPERATION & MAINTENANCE

Installing/Using Straight Guide on Plunge Base continued...

Loosen the plunge base lock knob (A) Fig.14 found on the guide holder (B). Slide the straight guide under the lock knob and tighten to secure in place. Loosen the wing nut on the straight guide and adjust the distance between the bit and the straight guide.

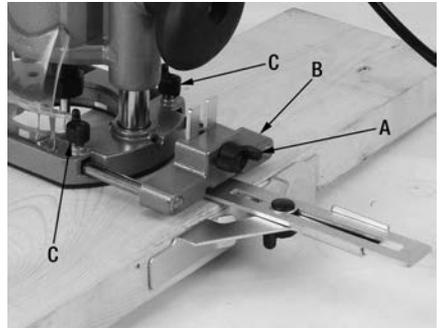


Figure 14

You can also extend the guide holder (B) by loosening the two lock knobs (C), pulling out the guide holder and retightening the two lock knobs. Once set to the desired distance, tighten the wing nut securely. There are two holes in the straight guide which allow the carriage bolt, washer and wing nut to be installed further away.

When cutting, move the tool with the straight guide flush with the side of the workpiece.

MAINTENANCE

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 will need to be replaced once the carbon brushes wear down to the limit mark. Both carbon brushes should be replaced at the same time.

Using a flat head screwdriver, remove the carbon brush caps (A) Fig.15. Remove the carbon brush (B) and inspect it. Repeat this step for the second carbon brush on the opposite side.

If they have worn down, you will need to replace them with a set of identical replacement carbon brushes (included). Install new carbon brushes and reinstall the carbon brush caps.

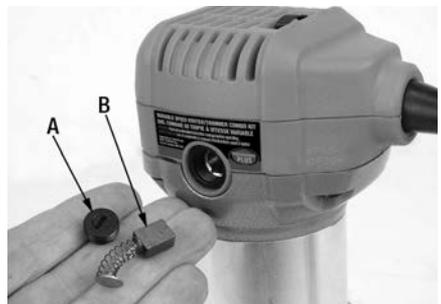


Figure 15

PARTS DIAGRAM & PARTS LISTS

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