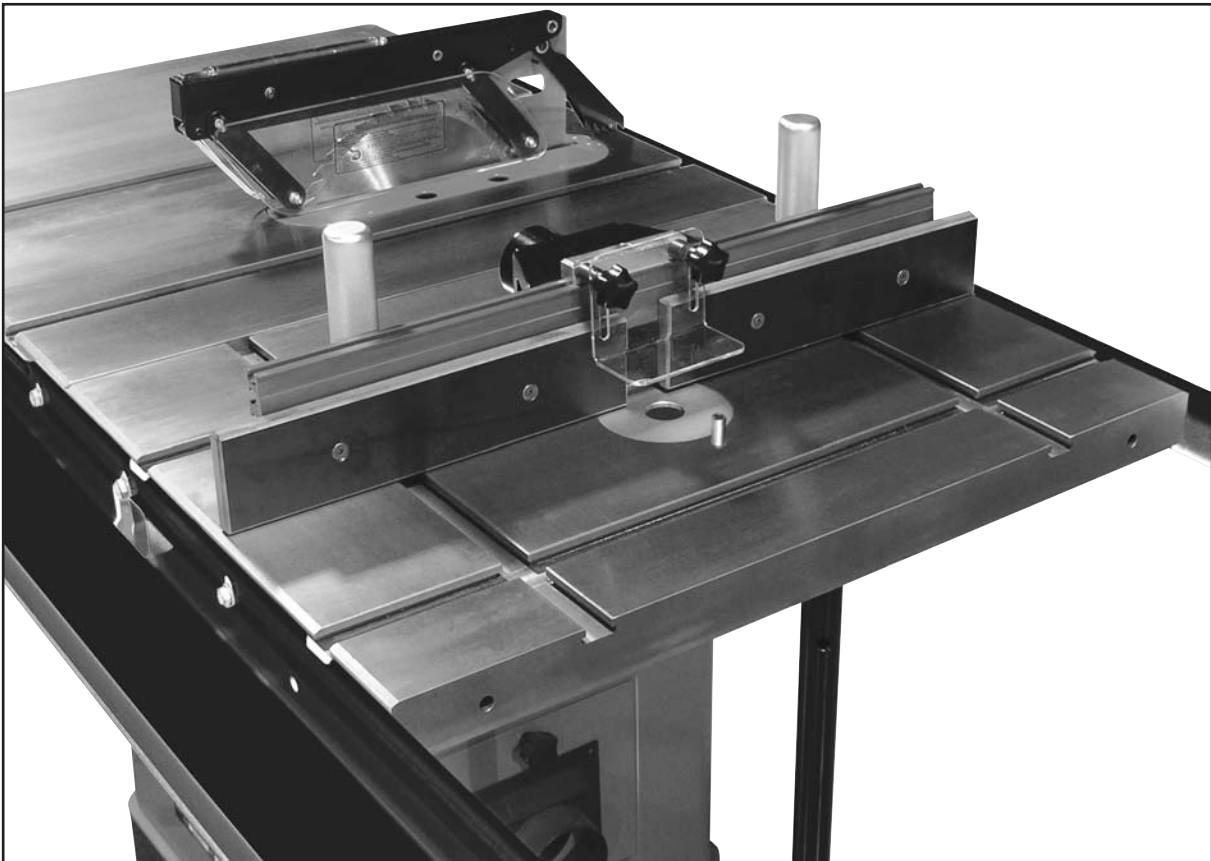# KING
INDUSTRIAL

INDUSTRIAL ROUTER TABLE AND FENCE ATTACHMENT FOR TABLE SAWS

Router table attachment KRT-100 fits most table saws having a 27" deep table

MODEL: KRT-100

INSTRUCTION MANUAL

2-YEAR LIMITED WARRANTY FOR THIS ROUTER TABLE ATTACHMENT	KING CANADA TOOLS OFFERS A 2-YEAR LIMITED WARRANTY FOR INDUSTRIAL 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 purshase 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

www.kingcanada.com

GENERAL SAFETY INSTRUCTIONS
FOR POWER TOOLS

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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 surroun-ding 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, thet are **NOT** safety glasses. Also use a face or dust mask if cutting 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 ROUTER TABLE ATTACHMENTS

1. NEVER USE ROUTER TABLE FENCE WITH TABLE SAW.
The router table fence is not designed to be used with the table saw, this creates an unsafe work situation. Never try to use the router table fence with the table saw blade.

2. FENCE AND ROUTER BIT GUARD PROPERLY POSITIONED.
Before plugging in the router power cord, make sure the router table fence and router bit guard are correctly positionned and secured. This will reduce the risk of injury from accidental contact with the router bit during use.

3. UNPLUG ALL POWER CORDS.
Before making any installation, repair or maintenance, unplug the table saw and router power cords from the power source.

4. MAKE SURE ROUTER IS SECURED TO ROUTER TABLE.
If the router is not secured properly to the router table, causing the router to move or the router bit to come in contact with the fence or the table insert, serious personal injury could result from flying debris. Make sure router is properly secured and router bit is perfectly centred with the table insert.

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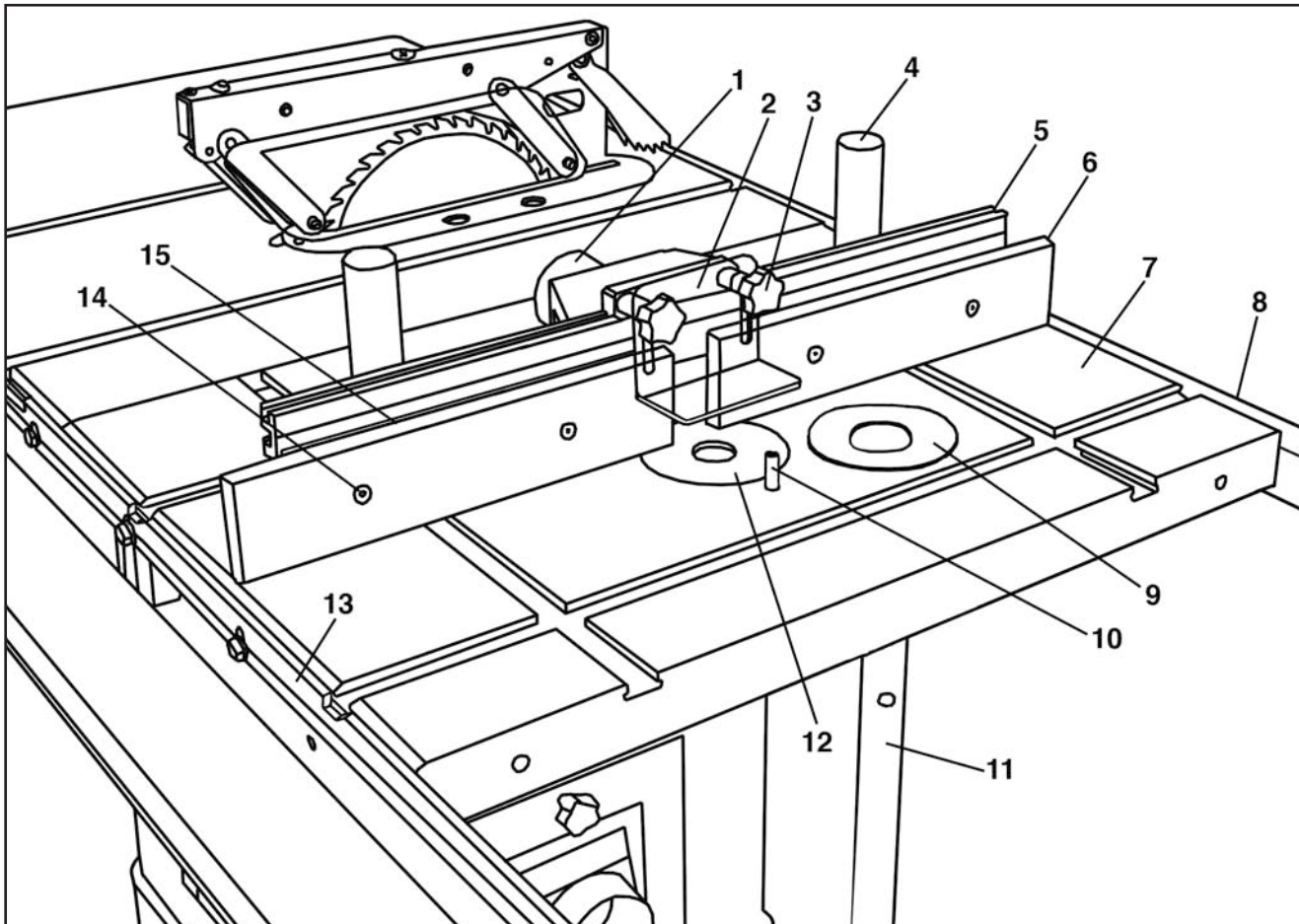
1. Dust chute
2. Router bit guard
3. Router bit guard lock knob (1 of 2)
4. Fence lock handle (1 of 2)
5. Aluminum fence
6. Fence laminate board (1 of 2)
7. Router table
8. Rear bar for table saw rip fence
9. Table insert (2-3/8" opening)
10. Starter pin
11. Support leg with adjustable foot
12. Table insert (1" opening)
13. Front bar for table saw rip fence
14. Laminate board fixing screw (1 of 4)
15. Laminate board shims (0.7 and 1.5mm)

SPECIFICATIONS CHART

MODEL	KRT-100
Router table size	20" x 27"
T-slot size (4 way)	3/4" x 3/8"
Router table opening	4"
Table insert quantity and inside dimensions	2 (1", 2-3/8")
Shim quantity and thickness	2 (0.7mm, 1.5mm)
Laminate board size	12-1/2" x 2-3/4" each
Dust chute	2-1/2"

ROUTER TABLE
ASSEMBLY AND ADJUSTMENTS

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INSTALLATION GUIDELINES

This router table attachment can be mounted on most table saws having a 27" deep table. If your table saw doesn't have mounting holes to install the router table, drilling or drilling and tapping holes will be necessary.

This router table attachment normally gets installed to the right side of the table of your table saw, but it can also be installed on the left side. For the purpose of these instructions, we will instruct you on installing the router table to the right side of the table. Fig.1 shows the router table completely assembled. The following instructions can also be applied to the installation of the router table on the left side of table.

WARNING! Unplug table saw power cord from power source before attempting to assemble this router table attachment.

FIGURE 1

INSTALLING ROUTER TABLE TO YOUR TABLE SAW

There are **2 options** to mount the router table attachment, decide which of the following best suits your needs;

Option #1- Mount the router table attachment directly to the main table of your table saw (Fig.2). Disassemble and remove the right side extension wing (if mounted to your table). Use the extension wing mounting hardware (three M8 x 1.25 cap screws, spring washers and washers) to install router table. Only hand tighten at this point.

Option #2- Mount the router table attachment directly to the right side extension wing. To do this, you will need to drill and tap M8 x 1.25 mounting holes into the right side extension wing. Use the router table mounting holes as a guide. Use the supplied mounting hardware (three M8 x 1.25 cap screws, spring washers and washers) to install router table to extension wing. Once installed, only hand tighten at this point.

Option #1
FIGURE 2

INSTALLING SUPPORT LEG TO ROUTER TABLE

1) Once the router table is secured to the table, install the support leg (A) Fig.2 underneath the front edge of the router table. To install, screw support leg set screw into table, then screw support leg.

2) Install the adjustable foot (B) Fig.3 to the support leg (A). To install, screw it into the bottom of the support leg. At this point, do not tighten the hex. nut (C) against the bottom of the support leg.

FIGURE 3

ADJUSTING ROUTER TABLE FLUSH WITH TABLE TOP

1) The top of the router table must be installed flush with the top of the table. To do this, place a straightedge (A) Fig.4 on top of both tables. Adjust the height of the router table, once perfectly flush with the table top, tighten the router table mounting hardware.

2) Adjust the support leg adjustable foot (B) Fig.3 in or out to adjust height of support leg until the front edge of the router table is perfectly level with the table. Once properly adjusted, tighten the hex. nut (C) Fig.3 against the bottom of the support leg (A) as shown in Fig.3.
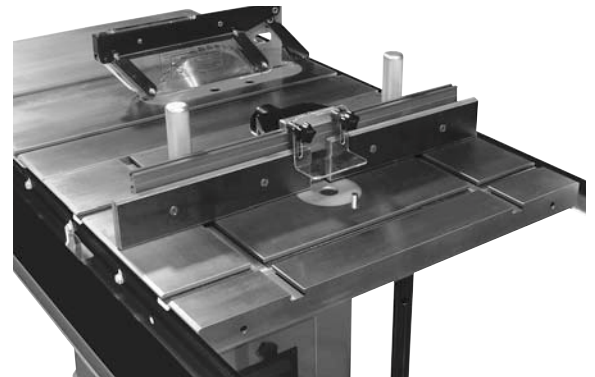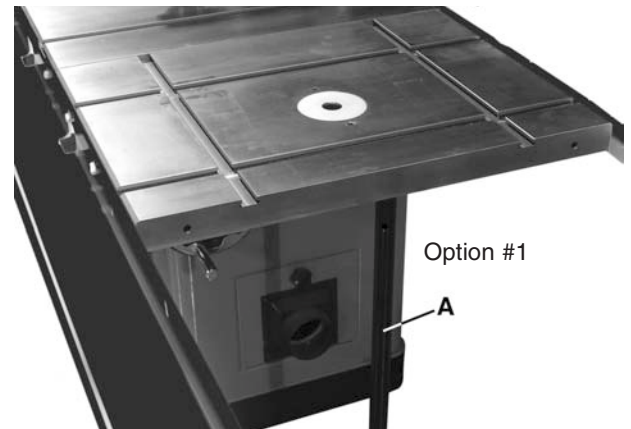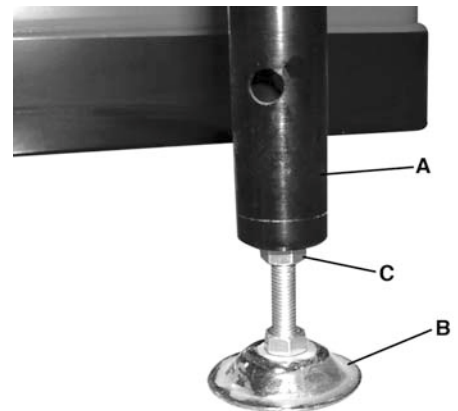

FIGURE 4
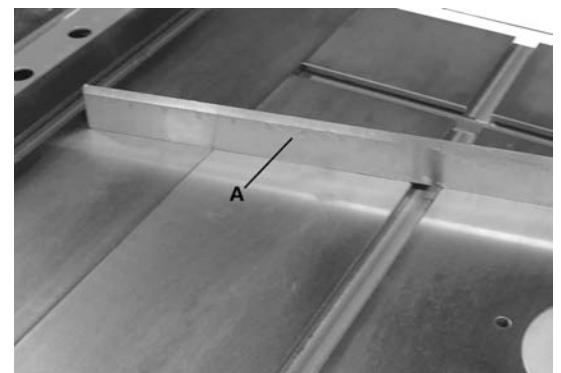
INSTALLING ROUTER TABLE TO A TABLE SAW WHICH HAS RIP FENCE BARS INSTALLED

This router table can be installed to a table saw having a functioning rip fence and bars system.

1) If your table saw has a rip fence and bars system installed and the bars extend past the router table T-slots, a modification to the top of the interfering bar(s) will be required.

2) The modification requires cutting out a small section of the bar(s) (A) Fig.5 to allow clearance to the side T-slots (B). Mark the affected bar(s), then remove bar(s), cut bar as shown in Fig.5 and reinstall bar(s). This can be done by using an angle grinder or notched with a hack saw. If you are not confident about this cutting procedure, mark the bars and bring them to a machine shop to get them modified.

3) Once the bars are cut and reinstalled, secure the both sides of the router table to the bars using bar mounting hardware (A) Fig.6.
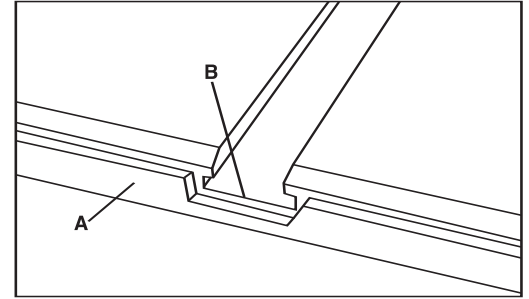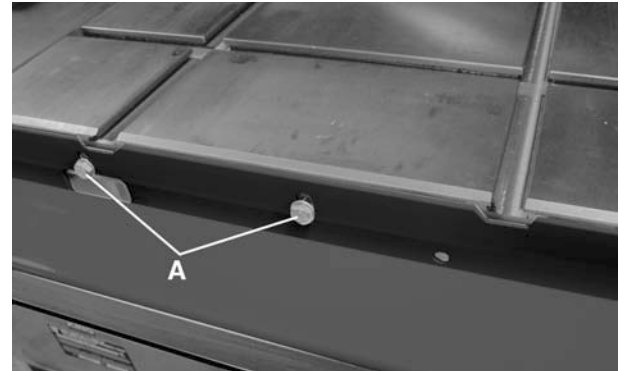

FIGURE 5

FIGURE 6

INSTALLING/ADJUSTING FENCE

This router table has crossing T-slots which allow the fence to be installed in four different directions. Before installing the fence on router table, choose the set of T-slots which best suits your intended operation.

1) Slide both fence T-slot bars (A) Fig.7 into the desired set of T-slots as shown in Fig.7.

FIGURE 7

2) Position the fence assembly (A) Fig.8 over the shafts of both T-slot bars. Place a plastic washer (B) on each T-slot bar shaft, then secure the fence to the router table using the two fence lock handles (C).

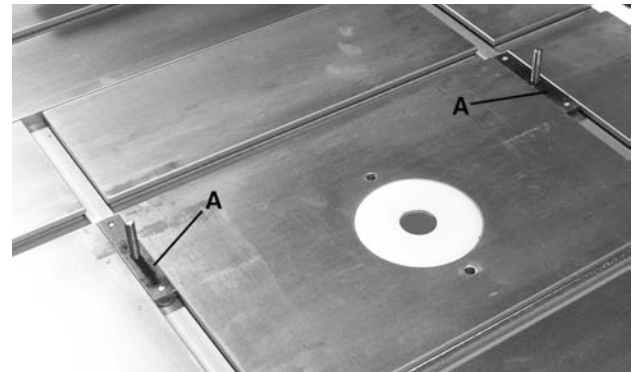3) Install dust chute (D) to the dust chute housing using four round allen head screws (E).
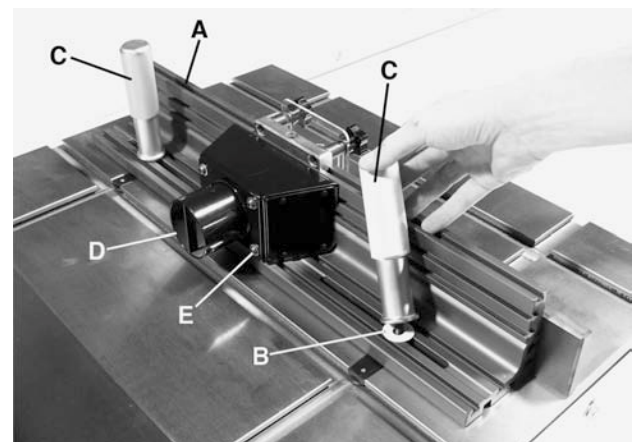

FIGURE 8

INSTALLING ROUTER BIT GUARD

1) Slide the hex. nut of the guard bracket (A) into the top of the fence T-slot. Center the guard bracket with the dust chute and tighten guard bracket screw to secure to fence.

2) Install the router bit guard (B) to the posts of the guard bracket. Secure guard to guard bracket using two lock knobs (C).
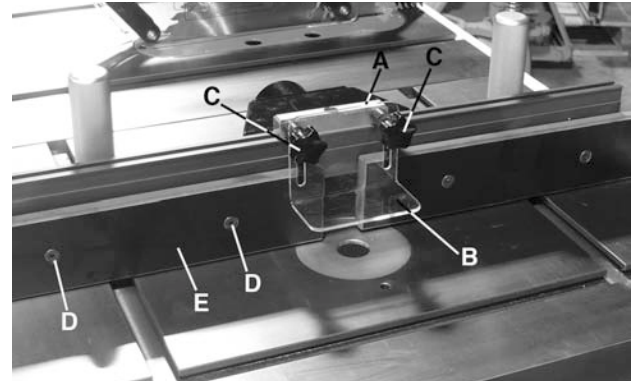

FIGURE 9

INSTALLING BOARD SHIMS

Two board shims (A & B) Fig.10 (0.7mm, 1.5mm) are included with this router table. These shims can be placed between the left side outfeed board and the fence to offset the outfeed board for full edge routing or jointing operations.

1) Lightly loosen the left side outfeed board mounting screws (D) Fig.9. Slide the left side outfeed board (E) towards the left to remove it from fence.

2) Place one or both shims (A & B) Fig.10 on the back of the left side outfeed board (C) and reinstall in the reverse order.

3) Additional homemade shims can also be used to obtain precise offset. Maximum outfeed board offset is 4mm. If you require a larger offset, you will need to obtain longer countersunk screws to properly secure outfeed board to fence.
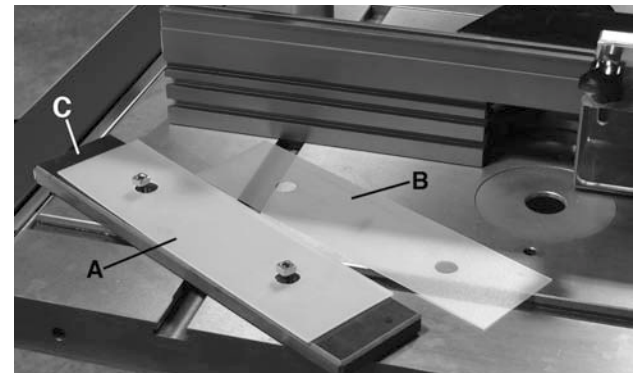

FIGURE 10

OPERATION

INSTALLING ROUTER TO ROUTER TABLE

WARNING! Unplug table saw and router power cords from power source.

1) Slide four router clamping bracket assemblies (A) Fig.11 into the appropriate T-slots (B) underneath the router table.

2) Position the router (with a router bit installed) underneath the router table so the router bit is perfectly centered in the router table insert.

3) Slide the four clamping bracket assemblies over the base of the router and tighten the clamping bracket knobs (A) and the adjustment bolts (B) Fig.12. A fifth clamping bracket assembly is supplied in case you require a fifth point to secure router.

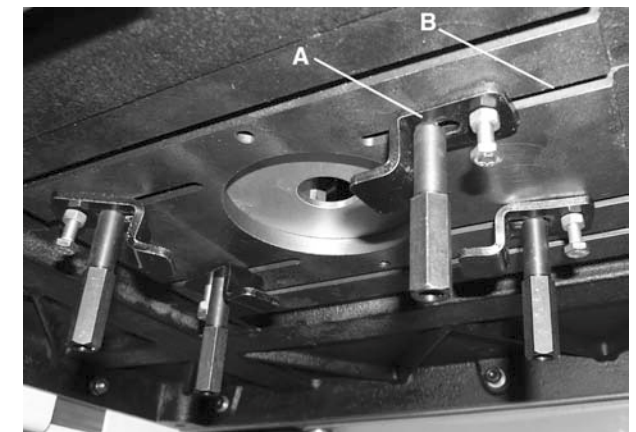4) Once the adjustment bolts are tightened, tighten the hex. nuts (C) up against the clamping brackets.

WARNING! Make sure the router is centered with the opening of the table insert and is secured before using the router.
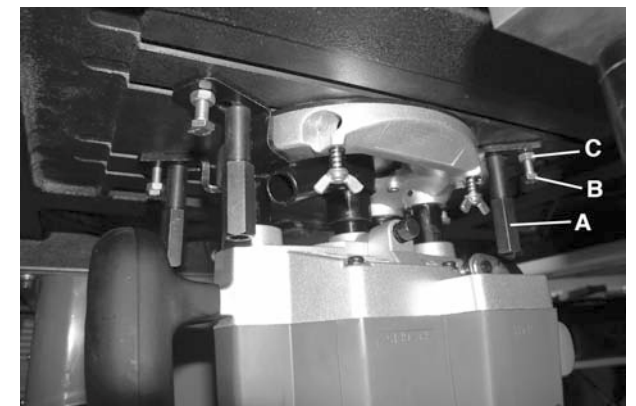

FIGURE 11

FIGURE 12

USING THE FENCE

WARNING! Unplug table saw and router power cords from power source.

1) Two table inserts are included with this router table (1" and 2-3/8" opening). Install a table insert (A) Fig.13 into the router table opening, choose the one which leaves the least amount of space around the router bit. Make sure the choosen table insert does not interfere with the router bit rotation.

2) If you plan on making offset routing operation, install shim(s) in between the fence and the left side outfeed board.

3) Loosen fence board fixing screws (B) Fig.13, position the fence boards (C) so that they leave the least amount of space on both sides of the router bit. Make sure the position of the fence boards do not interfere with the router bit rotation. Retighten fence board fixing screws.
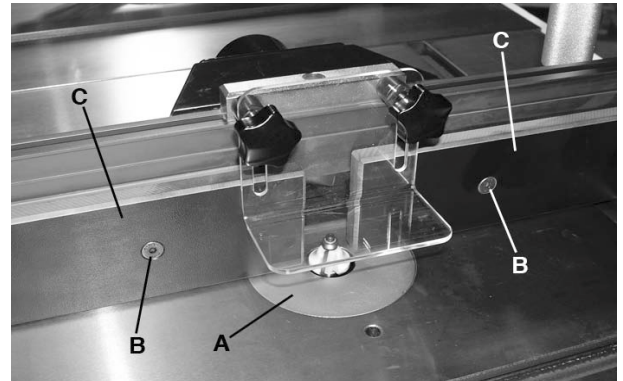
PERFORMING FREE-HAND ROUTING

WARNING! Unplug table saw and router power cords from power source.

1) To perform free-hand routing, it is necessary to remove the entire fence assembly from the router table and use the starter pin (A) Fig.14 in one of the two holes (B or C) around the table insert.
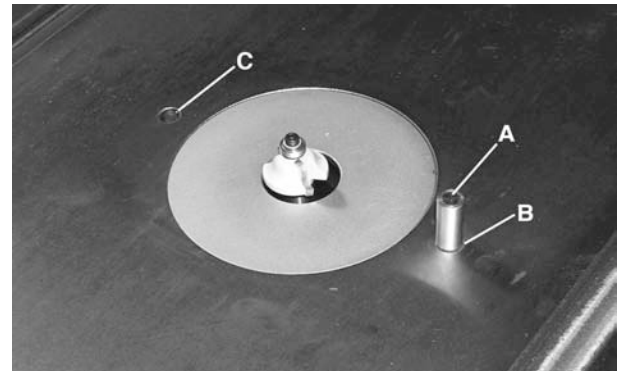
FEED DIRECTION

Always feed the workpiece from the right side towards the left side, against the router bit rotation. Feeding the workpiece with the router bit rotation is called "climb cutting". **Climb cutting is very dangerous**, because the router bit will grab the workpiece and thrust it the same direction as the router bit rotation. See Fig.15.

MAINTENANCE

WARNING! Unplug table saw and router power cords from power source.

Cleaning- Clean table top with a clean dry cloth removing all excess wood chips and saw dust. Use a resin cleaner to remove any resin build-up. After every use, protect the unpainted cast-iron surface by wiping it clean, this will prevent wood moisture from remaining on the table and causing rust.
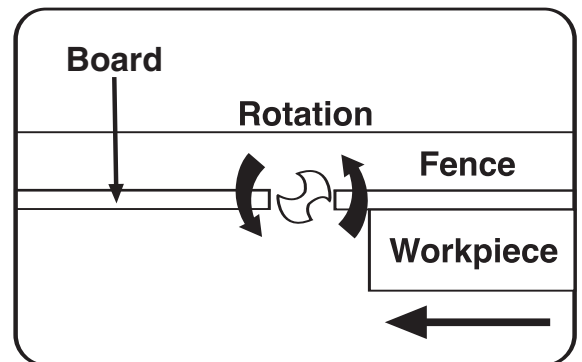

FIGURE 13

FIGURE 14

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.