



6-1/2" VARIABLE SPEED PLUNGE CUT TRACK SAW



MODEL: KC-8365

INSTRUCTION MANUAL

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WARRANTY INFORMATION

**2-YEAR
LIMITED WARRANTY
FOR THIS 6-1/2" PLUNGE CUT TRACK SAW**

**KING CANADA TOOLS
OFFERS A 2-YEAR LIMITED WARRANTY
INTENDED 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 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 SAFETY RULES



WORK AREA SAFETY

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
2. Use personal protective equipment. Always wear eye protection. Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
8. Use clamps to secure your workpiece to a stable surface. Holding a workpiece by hand or using your body to support it may lead to loss of control.
9. KEEP GUARDS IN PLACE and in working order.

SERVICE

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.



SPECIFIC SAFETY INSTRUCTIONS FOR PLUNGE CUT TRACK SAWS

SPECIFIC SAFETY INSTRUCTIONS

1. Make sure the voltage matches the specifications on the specifications nameplate of the tool.
2. Persons with restricted physical, sensory or mental capabilities are not allowed to use this Plunge Cut saw unless they are supervised and instructed by a supervisor.
3. Never leave the powered-on saw unattended and keep them out of reach of children and persons in need of supervision.
4. Only use approved extension cords with a suitable AWG gauge.
5. Do not bring or move hands in the cutting area of the saw blade.
6. Wear appropriate work clothing as well as eye protection, respiratory protection, hand protection and hearing protection. Always handle the saw blade with gloves.
7. Keep in mind that even a worn blade is still very sharp. Always grasp the blade on the sides. Do not fling the saw blade and do not drop it.
8. Never use this Plunge Cut Track saw with a grinding wheel.
9. Do not grip underneath your workpiece. The protective cover can't protect you from the saw blade under the workpiece.
10. Adjust the cutting depth to the thickness of the workpiece. It should be visible less than a full tooth height under the workpiece.
11. Do not cut very small workpieces. When cutting round wood, use a device which secures the workpiece from twisting. Never hold the workpiece to be cut in your hand or across your leg. It is important to secure the workpiece properly to minimise the risk of physical contact, jamming the saw blade or causing loss of control.
12. Hold the saw only by the insulated gripping surfaces when performing an operation where the cutting tool may come in contact with hidden power lines or its own power cord. Contact with a live wire also exposes the metal parts to tension and leads to an electrical shock.
13. When cutting longitudinally, always use the parallel stop or a straight edge guide such as the optional 50" Track available from King Canada. This improves the cutting accuracy and reduced the possibility that the saw blade gets jammed.
14. Always use saw blades with the correct blade diameter and a matching arbor size (20mm). Saw blades that do not match the mounting parts of the saw will run unevenly and lead to loss of control.
15. Never use a damaged or incorrect outer flange washer or a damaged blade screw. The outer flange washer and the blade screw have been specifically designed for your saw for best performance and reliability.
16. Start the Plunge Cut Track saw and begin cutting only after it reaches its full speed.
17. Never attempt to stop the saw blade using lateral pressure after switching it off.
18. Set the saw aside only when the blade comes to a complete stop.
19. Do not expose the saw to high temperatures, humidity and strong shocks. This saw can be damaged as a result.

3. A kickback can occur when the saw blade becomes twisted or misaligned in the saw groove. As a result, the teeth at the back edge of the saw blade can get stuck in the surface of the workpiece, whereby the saw blade is moved out of the saw gap and the saw jumps back in the direction of the operator.

A kickback is the result of incorrect or faulty use of the saw. It can be prevented following these precautions, as described below:

1. Hold the saw firmly with two hands and bring your arms into a position in which they can resist the kickback forces. Always place yourself on the side of the saw, never bring the blade in line with your body. In a kickback, the saw can jump backwards. The operator can control the kickback forces if appropriate measures are taken.
2. If the saw blade jams or sawing was interrupted for any reason, release the On/Off trigger and hold the saw in the material until the saw blade comes to a complete stop. Never attempt to remove the saw from the workpiece or pull it backwards as long as the saw blade is moving or a kickback may occur. Find the cause of the saw blade jam and eliminate through appropriate measures.
3. When you want to restart the saw that is stuck in a workpiece, center the saw blade in the saw gap and check that the teeth are not stuck in the workpiece. If the saw blade jams, it can move out from the workpiece or a kickback can happen if the saw is restarted.
4. Prop up large panels in order to minimize the risk of kickback by a jammed saw blade. Large panel tend to sag under their own weight. Panels must be supported on both sides, both in the vicinity of the saw gap as well as on the edge.
5. Do not use dull or damaged blades. Saw blades with blunt or misaligned teeth cause increased friction, jamming of the saw blade and kickback by an excessively narrow saw gap.
6. Tighten the plunge cut depth position prior to cutting. If the settings change while cutting, the saw blade can jam and a kickback can occur.
7. Be especially careful if you perform a "plunge cut" in a hidden area, such as an existing wall. The protruding saw blade can get blocked in hidden objects while cutting and cause a kickback.
8. Do not place the saw on workbench or the floor unless the saw blade has come to a complete stop. An unprotected, running saw blade move the saw against the cutting direction and cuts whatever is in its way. Note the delay time of the saw.
9. For this reason, this saw is not suitable for use in reverse direction as a fixed equipment.
10. Do not use this saw if it is not working properly or has been damaged. In case of technical problems, do not attempt to repair it on your own. Contact a King Canada service center to have the saw repaired professionally.

CAUSES AND PREVENTION OF KICKBACK

1. A kickback is a sudden reaction as a result of a stuck, jammed or misaligned saw blade which leads to uncontrolled saw to be lifted and moved from the workpiece out in the direction of the operator.
2. A kickback can occur when the saw blade gets stuck or jammed in the saw gap. The saw blade is blocked and the motor force repels the saw in the direction of the operator.

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!

ELECTRICAL INFORMATION

POWER SUPPLY

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

WARNING: The warnings, cautions, and instructions discussed in this instruction manual can't 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.

120V OPERATION

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

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 (12 Amps.) 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 shown in Fig.2 to determine what AWG rating is required for your situation. Cord length is rated in feet.

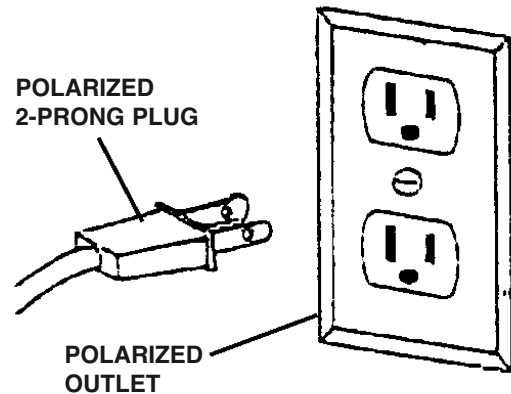


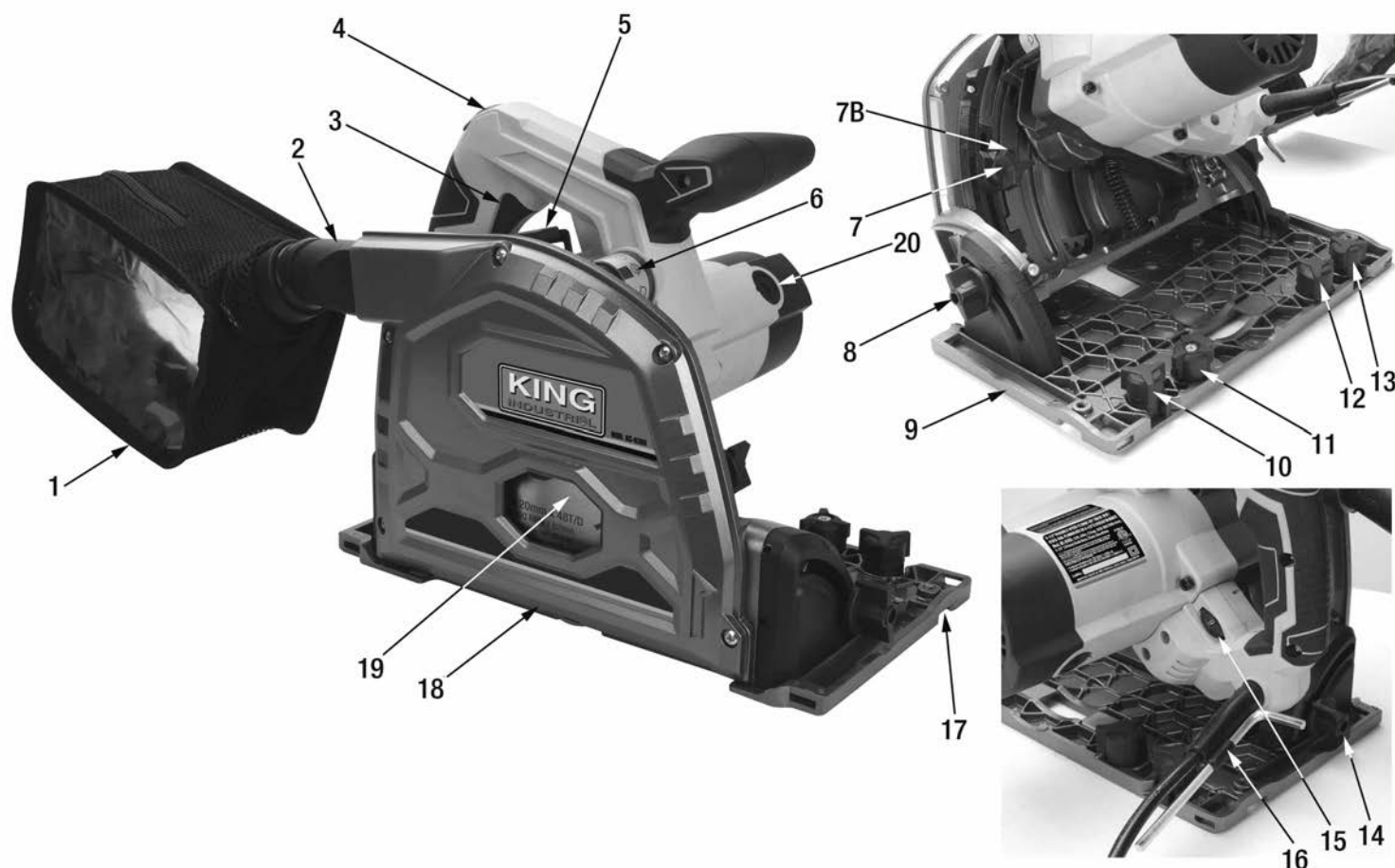
FIGURE 1

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



GETTING TO KNOW YOUR PLUNGE CUT TRACK SAW



Getting to know your Plunge Cut Track Saw

- | | |
|---|--|
| 1) 1L dust management system | 11) Track lock knob |
| 2) Dust bag dust chute | 12) Anti-kickback knob |
| 3) On/Off trigger | 13) Rear fine adjustment knob |
| 4) Plunge action lock/release button | 14) Rear bevel angle adjustment lock knob |
| 5) Spindle lock button | 15) Variable speed adjusting dial |
| 6) Mode selector | 16) Hex. key/hex. key storage |
| 7) Plunge depth setting lock knob | 17) Track slot |
| 7B) Plunge depth compensation lever | 18) Non retracting blade guard |
| 8) Front bevel angle adjustment lock knob | 19) 6-1/2" Plunge saw blade (20mm x 2.2mm x 48T) |
| 9) Base plate | 20) Brush cap/carbon brush (1 of 2) |
| 10) Front fine adjustment knob | |

MODEL	KC-8365
Blade diameter	6-1/2"
Blade arbor / blade thickness	20mm / 2.2mm
Cut capacity @ 90° (without track/with track)	2-5/16" / 2-1/8"
Cut capacity @ 45° (without track/with track)	1-21/32" / 1-1/2"
Bevel angle capacity	0° to 48°
Variable speed range	2,000 - 6,000 RPM
Motor	12 Amp.
Voltage	120V, 1 phase, 60 Hz
Assembled dimensions (LxWxH)/weight	23" x 9" x 9-5/8" / 12 lbs
Package dimensions (LxWxH)/weight	t13-1/4" x 10-1/8" x 11-5/8" / 14 lbs

ASSEMBLY & ADJUSTMENTS



ASSEMBLY

Dust bag- Dust management system

This 6-1/2" Plunge Cut Track Saw comes with a convenient and efficient dust bag (A) Fig.3. To install the dust bag, position the dust bag adaptor (B) into the dust chute (C) of the Plunge Cut Track Saw. Then slide dust bag over the other end of the dust bag adaptor as shown.

If you prefer, you can connect a vacuum hose directly to the dust chute, or the dust chute adaptor. If using a vacuum for your dust collection, make sure to turn on the vacuum before starting your plunge cut operation. An optional steep adaptor (Mod. KVAC-1204) can be purchased to connect a 1-1/4" vacuum fitting to the tool dust chute (C).

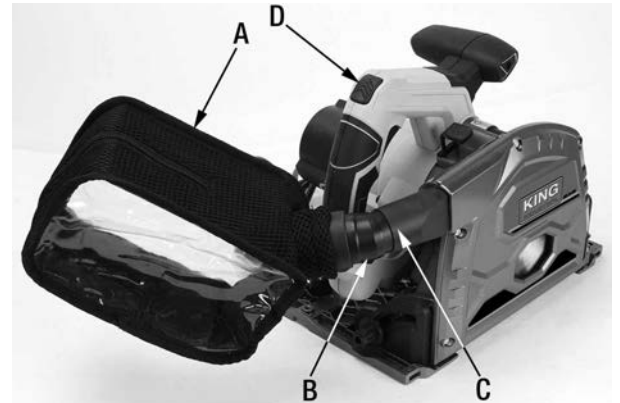


FIGURE 3

ADJUSTMENTS

Mode selector (3 modes)

This 6-1/2" Plunge Cut Track Saw comes with a mode selector which allows quick and easy adjustment of 3 common functions, the mode can be selected by simply rotating the switch (D) Fig.4 to the desired mode.

3 common functions (Refer to Fig.4):

- Blade changing mode (A) Fig.4
- Free plunge action mode (general cuts) (B) Fig.4.
- Scribe cut (0.1"/2.5mm deep) (C) Fig.4.

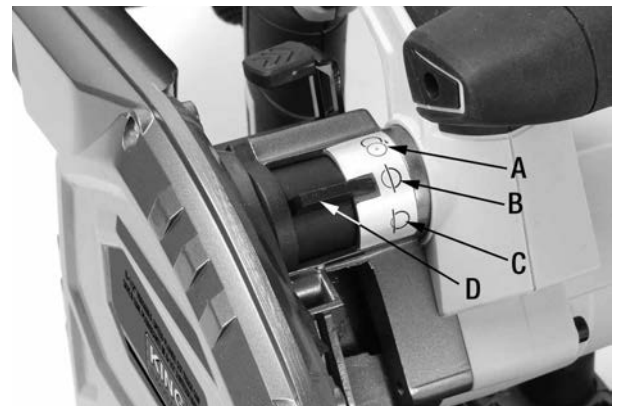
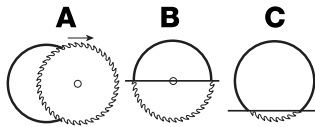


FIGURE 4



Blade changing mode (A) Fig.4

Select this mode when you need to change blades.



Free plunge action mode (general cuts) (B) Fig.4.

Select this mode for all general plunge cuts. The depth of plunge cut can be set between 0" to 2-5/16" (without track) or 0" - 2-1/8" (with track).

IMPORTANT! The depth of plunge cut should be set so that the teeth of the blade do not protrude past the workpiece by more than 1/8" below the workpiece being cut. The more the blade protrudes past the workpiece being cut, the greater the chance of saw kickback, which must be avoided.

Setting the depth of plunge cut

- 1) Rotate the selector mode lever to Free Plunge Action mode (B) Fig.4 as shown.
- 2) Make sure the saw is disconnected from the power source.
- 3) Loosen the plunge depth setting lock knob (A) Fig.5 and move up or down to the desired depth setting using the indicator arrow (B) and the scale (C) as a guide.

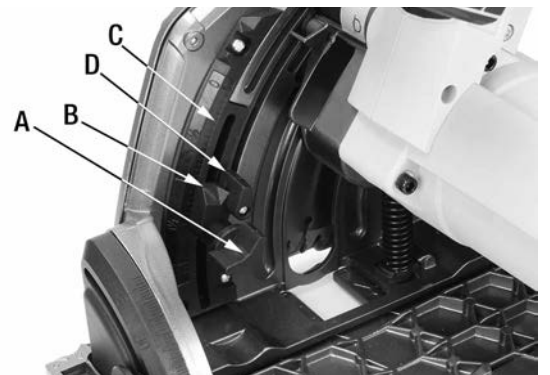


FIGURE 5

Compensating the depth of plunge cut for use with/without a track

- 4) If you are using your Plunge Cut Track Saw without the optional 50" track (accessory mod. KW-300), turn the track compensation lever (D) Fig.5 counterclockwise to the upper position as shown to compensate for the lack of thickness of the track.
- 5) If you are using your Plunge Cut Track Saw with the optional 50" track (accessory mod. KW-300), turn the track compensation lever (D) Fig.5 clockwise to the lower position to compensate for the thickness of the track.

Maximum plunge cut capacity at 90° without track: 2-5/16"

Maximum plunge cut capacity at 90° with track: 2-1/8"

- 6) Once your adjustment is made, tighten the plunge depth setting lock knob (A) Fig.5. Make a test plunge to verify your setting before plugging in your Plunge Cut Track Saw.



Scribe/scoring cuts mode (C) Fig.4.

A scribe cut is normally done before making a final full plunge cut, it also helps to prevent splintering of your workpiece, for clean cuts.

- 1) Rotate the selector mode to scribe cuts mode (C) Fig.4.
- 2) Press the plunge action lock/release button (D) Fig.3 and plunge the saw downwards. The saw will only plunge down 0.1" (2.5mm) and will stop at this plunge depth.



ADJUSTMENTS & OPERATION

ADJUSTMENTS

Angled cuts- Adjusting bevel angle

This Plunge Cut Track Saw can be tilted for angular cuts from 0° to 48°.

- 1) Make sure the Plunge Cut Track Saw is disconnected from the power source.
- 2) Loosen the front bevel lock knob (A) Fig.6 and the rear bevel lock knob (B). Tilt the saw until the pointer (C) lines up with your desired cutting angle on the bevel scale (D). Retighten both bevel lock knobs.
- 3) The bevel pointer (C) Fig.6 is set properly at the factory. After prolonged usage, if the pointer is not accurate, it should be adjusted properly. Make a test cut, verify the bevel angle, if an adjustment is needed, loosen pointer screw and reposition the pointer. Retighten screw once adjustment is made.

Blade kerf alignment indicator(s)

This Plunge Cut Track Saw comes with two blade kerf alignment indicators (notches) on the base of the saw. These notches are designed to help you align your cuts with your workpiece. Mark your workpiece with a cut line.

If using this Plunge Cut Track Saw without a track, align the "0" mark (A) Fig.7 with the cut line mark you made on your workpiece for all straight cuts. For 45° bevel cuts, align the "45" mark (B) Fig.7 with the cut line mark you made on your workpiece.

If using this Plunge Cut Track Saw with a track, align the "0" mark (A) Fig.7 with the cut line mark you made on your workpiece.

Note: Blade thickness may vary, it is recommended to make tests along a cut line to determine if the alignment notches are adequate guides to use.

Assembly & adjustment of Optional 50" track (Mod. KW-300)

IMPORTANT! THIS PLUNGE CUT TRACK SAW DOESN'T COME WITH A 50" TRACK, TRACK CONNECTOR KIT OR A TRACK CLAMPS KIT. These optional accessories can be purchased separately, visit your local distributor of King Canada products or visit our web site at kingcanada.com for more information.

List of available accessories:

- Model KW-300- 50" Track
- Model KW-301- Storage bag for up to two 50" tracks
- Model KW-302- Track connector kit
- Model KW-303- 2 Pc. Clamp kit

This Plunge Cut Track Saw can be used with one or more than one 50" track, this will depend on the length of cuts needed. If you purchase two 50" tracks (KW-300), you will also need to purchase the Track Connector Kit (KW-303) to assemble them together. Follow these instruction for assembling two 50" tracks together:

- 1) The Track Connector Kit (KW-303) comes with two spacer bars (A) Fig.8, and two locking bars (B) with 4 set screws (C & D).
- 2) Position one spacer bar over a locking bar, insert the pin (E) of the locking bar into the hole (F) in the spacer bar to lock them together. Make sure the spacer bar is positioned on the opposite side of the set screws.
- 3) Slide the track connector assembly (A & B) Fig.8 into the groove on the rear edge of the track (G). Make sure the set screws (C) are accessible from the top of the track. Only slide the bars halfway as shown.
- 4) Tighten the two set screws (C) Fig.8 using the 3mm hex. key (supplied with track connector kit Mod. KW-302) to secure that half of the bars to the track.
- 5) Repeat steps 2 to 4 for the second set of bars (A) Fig.9. Slide this set of bars into the groove underneath the track as shown. Make sure the set screws are accessible from the top of the track (underneath track). Only slide the bars halfway.
- 6) Tighten the two set screws under the track using the 3mm hex. key (supplied with track connector kit Mod. KW-302) to secure that half of the bars to the track.
- 7) Align the bars installed to the first track, with the grooves of the second track and slide them in all the way, see Fig.9. Secure both tracks together by tightening all remaining set screws (D) using the 3mm hex. key (supplied with track connector kit Mod. KW-302) to secure both tracks together.

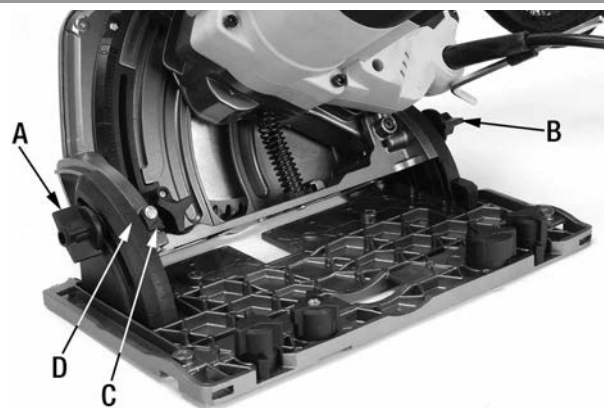


FIGURE 6

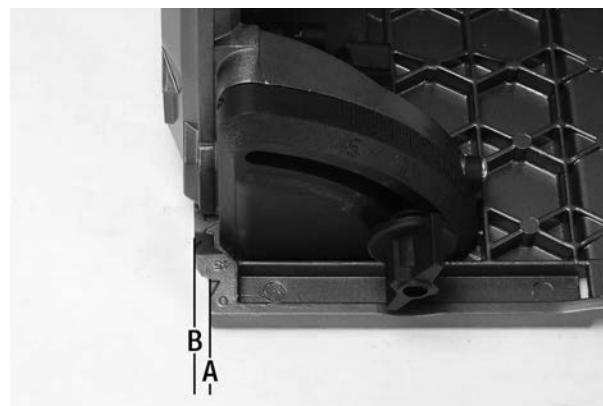


FIGURE 7

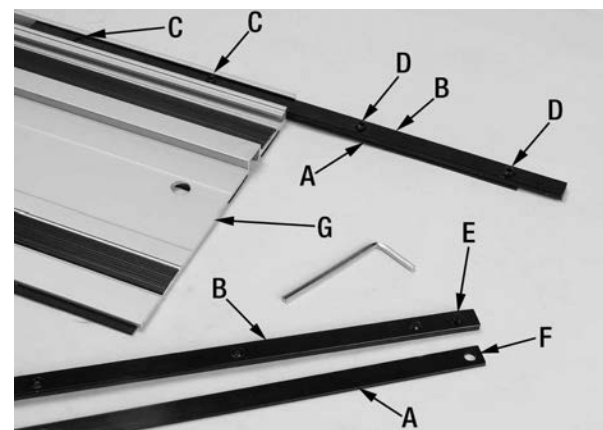


FIGURE 8



FIGURE 9

ADJUSTMENTS & OPERATION



ADJUSTMENTS & OPERATION

Assembly & adjustment of Optional 50" track (Mod. KW-300) continued...

- 8) Whether you are using only one track or two tracks assembled together, the front edge of the track can be positioned along the cut line of your workpiece and clamped down.

Clamping down track:

The track(s) should be clamped down to make sure there is no movement of the track during a cut. An optional 2pc. Clamp Kit (Mod. KW-303) is available for this purpose.

- Press the clamp release button (A) Fig.10 to open the clamp (B), slide the clamp straight bar (C) into the groove under the track as shown in Fig.10 and press the handle (D) to lock clamp in place.
- Repeat for the other end of the track.

- 9) Position the Plunge Cut Track Saw onto the track.

- 10) Use the fine adjustment knobs (A) Fig.11 to eliminate track play, see instructions on this page for specific instructions on how to eliminate track play.

Cutting rubber strip of Optional 50" track (Mod. KW-300)

- 1) The rubber strip (A) Fig.12 along the front edge of the track acts as a straightedge and can be used as a guide for aligning the track with the workpiece cut line. **For precision purposes the rubber strip (A) must be cut using the Plunge Cut Track Saw before using the track saw for the first time.**
- 2) Pivot mode selector to the Free plunge action mode (general cuts) (B) Fig.4. Set the plunge cut depth at 1/2", just enough to only cut the rubber strip.
- 3) Make sure track is clamped down before attempting to cut the rubber strip.
- 4) Place Plunge Cut Track Saw on the end of the track (2/3 off the track) in order to cut the entire rubber strip.
- 5) Start the saw, press the plunge lock/release button and allow the saw to come up to full speed, plunge cut downwards until it stops, then move the saw forward along the track to cut the full length of the rubber strip.

INSTALLING/ADJUSTING PLUNGE CUT TRACK SAW ON OPTIONAL 50" TRACK

Anti-kickback knob

This Plunge Cut Track Saw comes with an anti-kickback knob (A) Fig.13 and it is located on the base of the saw. To install this saw on a track:

- 1) Position the Plunge Cut Track saw onto the track, but before laying the saw flat, turn the spring loaded anti-kickback knob (A) Fig.13 clockwise and lay the saw flat on the track.
- 2) Before going onto the next step, make sure this assembly was done correctly. The assembly was done correctly if it is impossible to move the saw backwards on the track.

This anti-kickback knob is designed to prevent kickbacks, which is a backwards movement of the saw along the track. If you want to move the saw backwards to the starting point on the track, follow these instructions:

- 1) Turn the spring loaded anti-kickback knob (A) Fig.13 clockwise and hold it in this position and slide the saw backwards on the track to your starting point. Release knob to re-engage the anti-kickback safety device.

Using the fine adjustment knobs

This Plunge Cut Track Saw comes with two fine adjustment knobs which help eliminate play between the track and slot in the base of the saw. To eliminate play:

- 1) Loosen both fine adjustment knobs (A) Fig.11, move both fine adjustment knob levers (B) completely to the left or the right. Tighten both fine adjustment knobs.
- 2) Position the Plunge Cut Track Saw onto the track, make sure the saw slot fits in the track slot.
- 3) Loosen both fine adjustment knobs, move both fine adjustment knob levers to remove any play that exists. At this point the base must be snug in the slot. If the play was eliminated, retighten both fine adjustment knobs.
- 4) Test your adjustment, slide the saw along the track and observe if the saw moves smoothly, if it doesn't, repeat above steps until the saw moves smoothly.

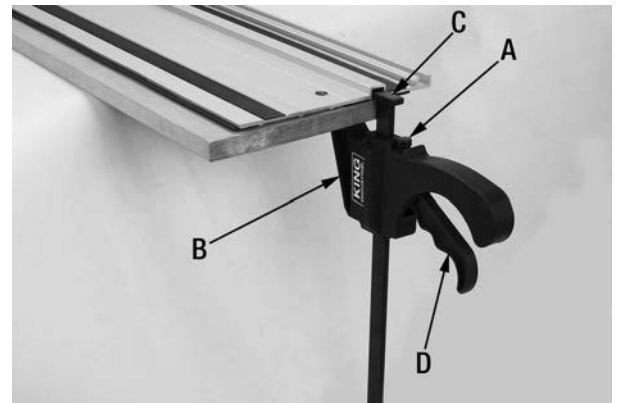


FIGURE 10

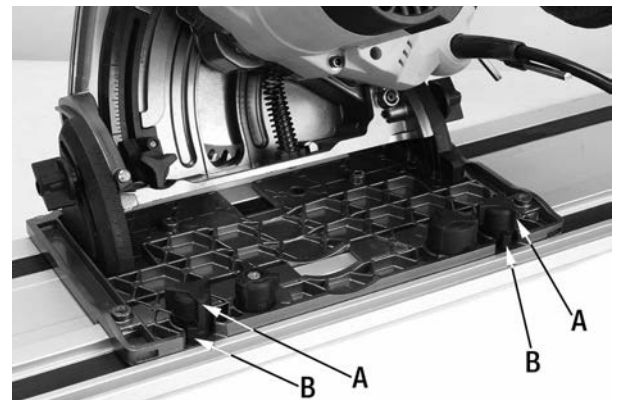


FIGURE 11

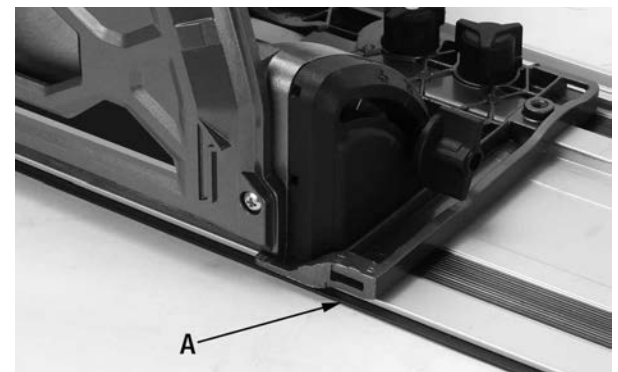


FIGURE 12



FIGURE 13



ADJUSTMENTS & OPERATION

ADJUSTMENTS & OPERATION

Using the track lock knob

This Plunge Cut Track Saw comes with a track lock knob (A) Fig.14 which locks the saw to the track, it doesn't prevent the saw from sliding on the track, it simply prevents the saw from lifting off the track during operation. This is a safety device which must be used to limit the negative effects of kickback.

- 1) Pull up on the track lock knob (A) Fig.14 and turn it counterclockwise until the arrow points at the "0" mark (B), then properly position the saw on the track.
- 2) Pull up on the track lock knob (A) again and turn it clockwise until the arrow points at the "I" mark (C).

Your Plunge Cut Track saw is now properly installed on the optional 50" track.

Changing speeds

This Plunge Cut Track Saw comes with a variable speed adjusting dial (A) Fig.15 and is located below the trigger. The variable speed range is 2,000 to 6,000 RPM, follow these instructions to change speed:

- 1) Turn variable speed dial (A) Fig.15 towards the number 1 to reduce the speed of the blade.
- 2) Turn variable speed dial (A) Fig.15 towards the number 6 to increase the speed of the blade.

Cutting speed guideline and warnings

- Set the variable speed dial from 1-3 for soft plastics and non-ferrous metals.
- Set the variable speed dial from 4-5 for hard plastics, fiberglass, hardboards and acrylic.
- Set the variable speed dial from 5-6 for solid wood, plywood, MDF boards.
- It is recommended to reduce speed to obtain clearer cuts in soft materials and heat-sensitive materials.
- If cutting at max speed, keep in mind that cutting faster wears out the blade faster.
- Only use replacement blades with a 20mm arbor with a minimum RPM rating of 6,000 RPM.

Adjusting saw base 90° to the blade

This Plunge Cut Track Saw comes with the base which is set at 90° to the blade at the factory, if an adjustment to this setting is needed, proceed as follows:

- 1) Position the mode selector to "free plunge cutting action".
- 2) Press the plunge lock/release button, plunge the blade (A) Fig.16 below the base (B) and hold the blade in position.
- 3) Place a square on the base and up against the blade and check to see if the blade is at a perfect 90°. Help from another person will be helpful.
- 4) If the base is not at a perfect 90° to the blade, using a 3mm hex key, adjust both set screws (C) Fig.16 until the base is set at a perfect 90° to the blade.

Turning Saw On

This Plunge Cut Track Saw comes with a plunge action lock/release button (A) Fig.17 and is located above the trigger. To turn the saw On, first press and hold the plunge action lock/release button (A) (do not plunge the saw at this point), then squeeze the trigger (B).

Once the saw blade reaches its full speed, you can now plunge the blade into the workpiece and make your cut.

To stop the saw, simply release the trigger (B). Wait until the saw blade has come to a complete stop before making any further adjustments.

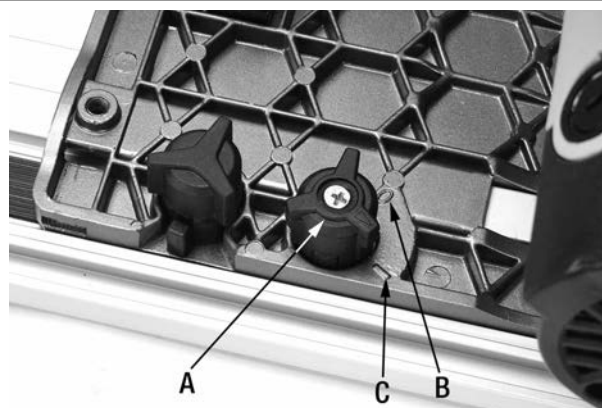


FIGURE 14



FIGURE 15

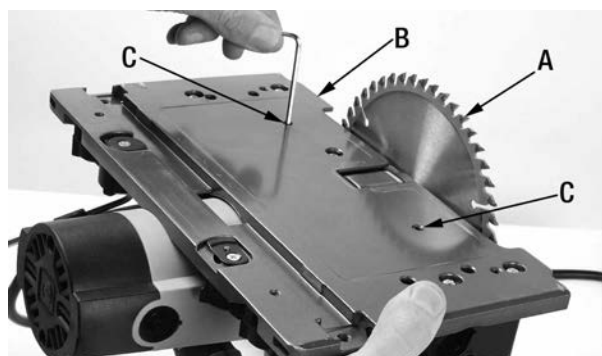


FIGURE 16



FIGURE 17

OPERATION & OPTIONAL ACCESSORIES



OPERATION- Operation guideline

- 1) Always hold the saw with both hands.
- 2) Position your workpiece with the nicest side facing down.
- 3) Clamp your workpiece before attempting to make a cut. If you are using the optional 50" track (Mod. KW-300), use the optional 2pc. clamp kit (Mod. KW-303) to clamp your workpiece and the track together.
- 4) Mark your cut line on the workpiece, if you are using the optional 50" track (Mod. KW-300), setup the track and the saw as instructed previously in this manual, see section "Assembly & adjustment of Optional 50" track (Mod. KW-300)".
- 5) Keep power cord clear of the saw and track to avoid any hangups.
- 6) Set your plunge depth, set the selector mode to "Free plunge action mode (general cuts) (B) Fig.4".
- 7) Connect saw plug to a power source, press the plunge lock/release button, press the trigger and wait for blade to come up to speed, plunge the blade down and gently move the saw along the track.

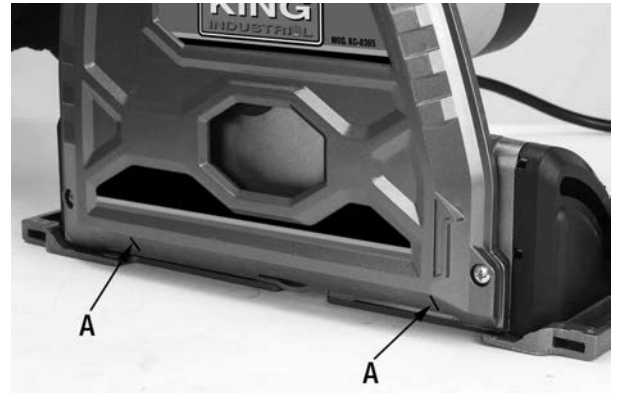


FIGURE 18

Warning! Do not force the saw during a cut, this could cause the saw motor to overheat, and it greatly increases the risks of kickbacks which could cause severe personal injury. Never move the saw backwards while cutting!

Operation guideline- Bevel cuts

Bevel cuts are made in the same manner as normal cuts, except the blade angle is set between 0° to 48°. A bevel cut made at an angle to the edge of a workpiece is called a compound miter.

- 1) To set the blade at a bevel angle, see section "Angled cuts- Adjusting bevel angle".
- 2) Keep in mind that making bevel cuts using an optional 50" track will alter the edge of the rubber strip.
- 3) Before making final bevel cuts, it is highly recommended to make test cuts to make sure of the accuracy of your settings.

Operation guideline- Plunge cuts

Plunge cuts are cuts that are made on the inside of a workpiece, instead of starting from one end of the workpiece to the other.

- 1) Set the mode selector to "Free plunge action mode (general cuts) (B) Fig.4".
- 2) Set the blade plunge cut depth.
- 3) Make sure the bevel angle is set to "0".
- 4) This saw has markers (A) Fig.18 on the base which show exactly where the front and back of the blade will cut when plunged downwards. Position the saw where you would like on your workpiece to make your cut.
- 5) Press and hold the plunge lock/release button, press the trigger to start the saw. Once the blade has reached its full speed, plunge the blade downwards until it reaches the max plunge depth set previously. Move the saw along the cut line.
- 6) Release the trigger, wait for the blade to come to a complete stop.

Operation guideline- Flush cuts

Flush cuts are cuts that are made close to a wall. Minimum distance between the cut line and the wall is 11/16" from the wall.

- 1) Set the mode selector to "Scribe cut mode" (C) Fig.4, or "Free plunge action mode (general cuts) (B) Fig.4".
- 2) Make sure the bevel angle is set to "0".
- 3) If using the "Free plunge action mode", set the desired plunge depth.
- 4) If using the "Scribe mode", the plunge depth is already set to 0.1" (2.5mm).
- 5) Press and hold the plunge lock/release button, press the trigger to start the saw. Once the blade has reached its full speed, plunge the blade downwards until it reaches the max plunge depth set previously. Move the saw along the cut line.
- 6) Release the trigger, wait for the blade to come to a complete stop.

OPTIONAL ACCESSORIES

IMPORTANT! THIS PLUNGE CUT TRACK SAW DOESN'T COME WITH A 50" TRACK, TRACK CONNECTOR KIT, TRACK CLAMPS KIT OR A DUST COLLECTION STEP ADAPTOR. These optional accessories can be purchased separately, visit your local distributor of King Canada products or visit our web site at kingcanada.com for more information.

List of available accessories:



Model KW-300
50" Track



Model KW-301
Storage bag
(Can fit up to two 50" tracks)



Model KW-302
Track connector kit



Model KW-303
2 Pc. Clamp kit



Model KVAC-1204
Step adaptor



MAINTENANCE & CHANGING BLADE

MAINTENANCE

Changing blade

WARNING! NEVER USE A BLADE THAT IS LARGER THAN 6-1/2" IN DIAMETER. DO NOT USE A BLADE THAT IS THICKER THAN 2.2MM OR THE BLADE BOLT WILL NOT PROPERLY SECURE THE BLADE TO THE ARBOR.

WARNING! DISCONNECT THE POWER CORD FROM THE POWER SOURCE BEFORE CHANGING A BLADE.

- 1) Make sure the bevel angle is set to "0".
- 2) Position the mode selector to "Blade changing mode (A) Fig.4".
- 3) Press and hold the plunge lock/release button and plunge the saw downwards until the blade flange (A) Fig.19 and the blade screw (B) are visible from the opening of the blade guard, as shown in Fig.19. Release the plunge lock/release button, the saw will stay in this position until the button is pressed again.
- 4) Press and hold the spindle lock button (A) Fig.20 to lock the arbor shaft and prevent the blade from turning.
- 5) Using the included 5mm hex. key (C) Fig.19 (located on the hex. key storage on the power cord), loosen and remove the blade screw (B) Fig.19. Turn counterclockwise to loosen.
- 6) Remove the blade flange (A). Slide the blade off the arbor and down and out of the blade guard.
- 7) Install a new blade on the arbor, making sure the blade is positioned in the correct rotation orientation, the direction arrows on the blade must turn counterclockwise.
- 8) Press and hold the spindle lock button (A) Fig.20 to lock the arbor shaft. Turn blade until it locks. Clean, then reinstall the blade flange and blade screw using the same 5mm hex. key.
- 9) Press and hold the plunge lock/release button to release the saw position.

Replacement blade guideline

Many different blades are available on the market for the 6-1/2" Plunge Cut Track Saw. Here is a general guide for the types of blades recommended for specific operations:

Blades with only 12-18 teeth- suitable for longitudinal cuts.

Blades with at least 32 teeth- suitable for cross-cuts.

Blades with 48 teeth- suitable/ideal for cross-cuts.

Note: For cutting any other materials such as aluminum, special blades are necessary.

This Plunge Cut Track Saw accepts Makita®, Dewalt®, Kreg® or Festool® 6-1/2" x 20mm arbor blades.

Makita® is a registered trademark of the Makita Corporation.

Dewalt® is a registered trademark of the Stanley Black & Decker Inc.

Kreg® is a registered trademark of Kreg Enterprises Inc.

Festool® is a registered trademark of the TTS Tooltechnic Systems AG & Co. KG

Replacement of carbon brushes

This saw is equipped with carbon brushes. Carbon brushes should be checked every 50 hours of operation. Carbon brushes wear down and must be replaced before they wear out completely.

- 1) Using a flat screwdriver, remove the carbon brush cap (A) Fig.21.
- 2) Remove the carbon brush (B) Fig.21 from the brush holder and inspect it.
- 3) If it has worn down completely, replace the carbon brush with a set of identical replacement carbon brushes (included with saw).
- 4) Insert new carbon brush into brush holder, and reinstall carbon brush cap.
- 5) Repeat for the second carbon brush on the opposite side of the motor housing.

Cleaning

- 1) Keep Plunge Cut Track Saw clean at all times, clean saw after every use with a dry cloth or compressed air.
- 2) Do not use harsh chemicals when cleaning the saw, damage could occur to the plastic parts.

PARTS DIAGRAM & PARTS LISTS

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



FIGURE 19

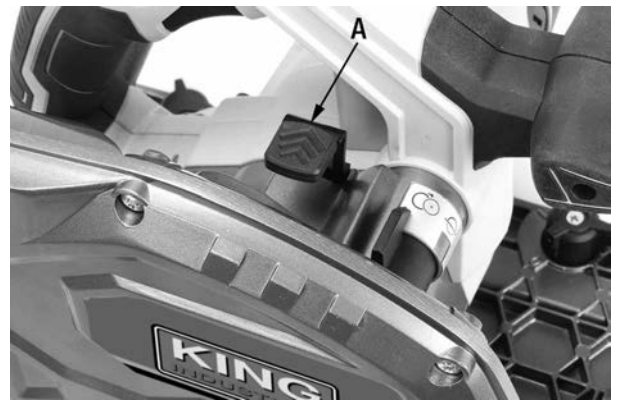


FIGURE 20

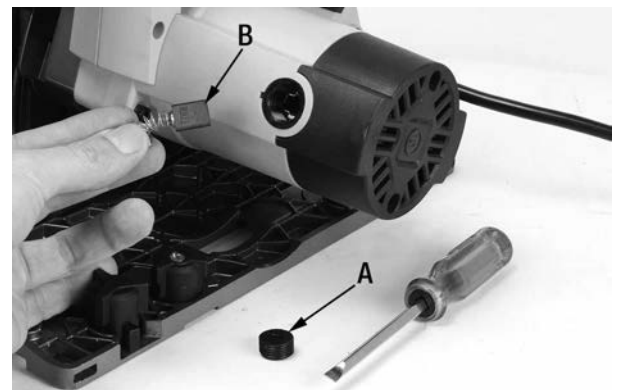


FIGURE 21