



# WARRANTY INFORMATION

**2-YEAR  
LIMITED WARRANTY  
FOR THIS BELT AND DISC SANDER**

**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](http://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.

## **PARTS DIAGRAM & PARTS LISTS**

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

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# SAFETY INSTRUCTIONS

## FOR YOUR BELT AND DISC SANDER

### SAFETY INSTRUCTIONS FOR BELT AND DISC SANDER

Safety is a combination of common sense, staying alert and knowing how your belt disc sander works. Read this manual to understand this sander.

#### BEFORE USING THE SANDER

**WARNING:** To avoid mistakes that could cause serious, permanent injury, do not plug sander in until the following is understood.

- Assembly and alignment.
- Learn the use and function of the ON-OFF switch, backstop, belt tracking knob, belt tension lever, work table and work table tilt lock knob.
- Review and understanding of all safety instructions and operating procedures in this manual.
- Review of the maintenance methods for this sander.

#### WHEN INSTALLING OR MOVING THE SANDER

**AVOID DANGEROUS ENVIRONMENT.** Use the sander in a dry, indoor place protected from rain. Keep work area well lighted. Place the sander so neither the user nor bystander are forced to stand in line with the abrasive belt or disc.

To avoid injury from unexpected sander movement:

- Always unplug the sander before moving it.
- Put the sander on a firm level surface where there is plenty of room for handling and properly supporting the workpiece.
- Support the sander so it does not rock.
- Bolt the sander to its work surface.
- **NEVER STAND ON TOOL.** Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach them.

#### BEFORE EACH USE:

##### Inspect your sander.

**DISCONNECT THE SANDER.** To avoid injury from accidental starting, unplug the sander, turn the switch off and remove the switch key before changing the setup, sanding disc or belt or adjusting anything.

**CHECK DAMAGED PARTS,** Check for:

- alignment of moving parts
- binding of moving parts
- broken parts
- work parts that cause a gap larger than 1/16" between work support and sanding surface.
- sanding belt narrower than 4 inches. Narrower belts uncover parts

that could trap your fingers,

- worn or damaged electric cords,
- stable mounting , and
- any other conditions that may affect the way the sander works.

If any part is missing, bent, or broken in any way, or any electrical parts don't work properly, turn the sander off and unplug the sander. **REPLACE** damaged, missing or failed parts before using the sander again.

**MAINTAIN TOOLS WITH CARE.** Keep the sander clean for best and safest performance. Follow instruction for lubricating. **REMOVE ADJUSTING KEYS AND WRENCHES** from tool before turning it on.

#### To avoid injury from jams, slips or thrown pieces:

- **USE ONLY RECOMMENDED ACCESSORIES.** The use of improper accessories may cause risk of injury to person.
- Adjust any work support to clear the sanding surface by no more 1/16". When checking clearance between the belt and work support, press the belt flat against the metal beneath it.
- Make sure all clamps and locks are tight and no parts have excessive play.
- **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents. Floor must not be slippery.

To avoid burns or other fire damage, never use the sander near flammable liquids, vapors or gases.

**PLAN AHEAD TO PROTECT YOUR EYES, HANDS, FACE, EARS. KNOW YOUR SANDER.** Read and understand the instruction manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards related to it.

To avoid injury from accidental contact with moving parts:

- **KEEP GUARD IN PLACE** and in working order.
- Don't do layout, assembly, or setup work on the sander while any parts are moving.
- **AVOID ACCIDENTAL STARTING.** Make sure switch is "OFF" before plugging sander into a power outlet.

#### Plan your work.

# SAFETY INSTRUCTIONS

## FOR YOUR BELT AND DISC SANDER

**USE THE RIGHT TOOL. Don't force tool or attachment to do a job it was not designed to do.**

**CAUTION: This machine is not designed for heavy deburring operations. When finishing metals, sparks or hot fragments could cause a fire. To avoid this:**

- **Disconnect any dust collecting hose from the sander.**
- **Remove all traces of wood dust from inside the sander.**
- **Remove all traces of metal dust from inside the sander before sanding wood again.**

Dress for safety.

Any power sanders can throw foreign object into eyes. This can cause permanent eye damage. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety glasses are available.

- Do not wear loose clothing, gloves, neckties or jewelry ( rings, wrist, watches). They can get caught and draw your fingers into moving parts.

Safety instructions for belt and disc sander:

- Wear nonslip footwear.
- Tie back long hair.
- Roll long sleeve above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs or muffs when using sander for hours at a time.
- Sanding operations are usually dusty. Wear a dust mask along with the safety glasses.

Inspect your workpiece.

Make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Plan your work to avoid THROWBACKS - when the workpiece catches on the sanding belt or disc and torn from your hands.

- Make sure there's no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- Use extra caution with large, very small or awkward workpieces.
- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks etc. ) for any workpieces large enough to tip when not held down to the table top.
- NEVER use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support, or pull the workpiece.

- When finishing on the disc, always press the workpiece against the "Down" side of the disc. Sanding against the side coming up from under the table could damage the work by making it chatter, or tear the work from your hands and throw it.

- Sand only one workpiece at a time.

- Clear everything except the workpiece and related support devices off the table before turning the sander on.

Plan the way you will hold the workpiece from start to finish. Avoid awkward operations and hand positions where a sudden slip could cause fingers or hand to move into a sanding surface. Keep the fingers away from where the belt goes into the dust trap.

**DON'T OVERREACH.** Keep good footing and balance. Keep your face and body to one side, out of line with a possible throwback.

**WHENEVER SANDER IS RUNNING**

**WARNING:** Don't let familiarity (gained from frequent use of your belt and disc sander) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury. Before starting your work, watch the sander while it runs. If it makes an unfamiliar noise or vibrates a lot, stop immediately. Turn the sander off. Unplug the sander. Do not restart until finding and correcting the problem. Make sure the sanding disc turns counterclockwise before using the sander.

**KEEP CHILDREN AWAY.** Keep all visitors a safe distance from the sander. Make sure bystanders are clear of the sander and workpiece.

**DON'T FORCE TOOL.** It will do better and safer job at its designed rate. Press the workpiece against the sanding material only hard enough to let it sand without bogging down or binding.

**Before freeing any jammed material:**

- Turn switch "OFF"
- Unplug the sander.
- Wait for all moving parts to stop.

**BEFORE LEAVING THE SANDER:**

**NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave until it comes to a complete stop.

**MAKE WORKSHOP CHILD-PROOF.** Lock the shop. Disconnect master switches. Remove the yellow switch key. Store it away from children and others not qualified to use the tool.

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

## POWER SUPPLY

**WARNING:** YOUR SANDER MUST BE CONNECTED TO A 120V WALL OUTLET, WITH A MINIMUM 15-AMP. BRANCH CIRCUIT AND USE A 15-AMP TIME DELAY FUSE OR CIRCUIT BREAKER. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

## GROUNDING

Your sander must be properly grounded. Not all outlets are properly grounded. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

**WARNING:** IF NOT PROPERLY GROUNDED, THIS SANDER CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS. TO AVOID SHOCK OR FIRE, IF THE POWER CORD IS WORN OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.

If this sander should malfunction or breakdown, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This sander is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**WARNING:** TO MAINTAIN PROPER GROUNDING, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

## 120V OPERATION

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

**WARNING:** DO NOT USE A TWO-PRONG ADAPTOR(S) FOR THEY ARE NOT IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. NEVER USE IN CANADA.

## EXTENSION CORDS

The use of any extension cord will cause some loss of power. If you do not have a choice, use the table in Fig.2 to determine the minimum wire size (A.W.G.-American Wire Gauge) extension cord needed. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-hole receptacles which accept the tool's plug.

For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the sander motor. Refer to Fig.2 for wire length and size.

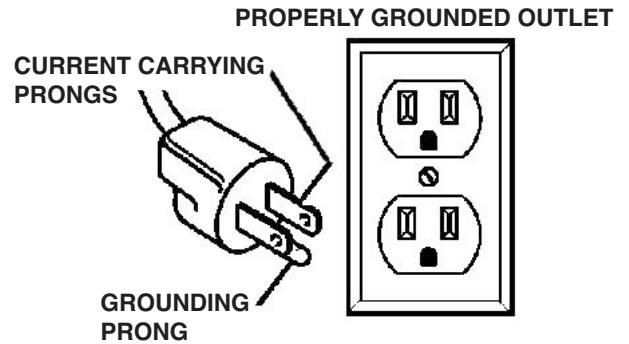


Figure 1

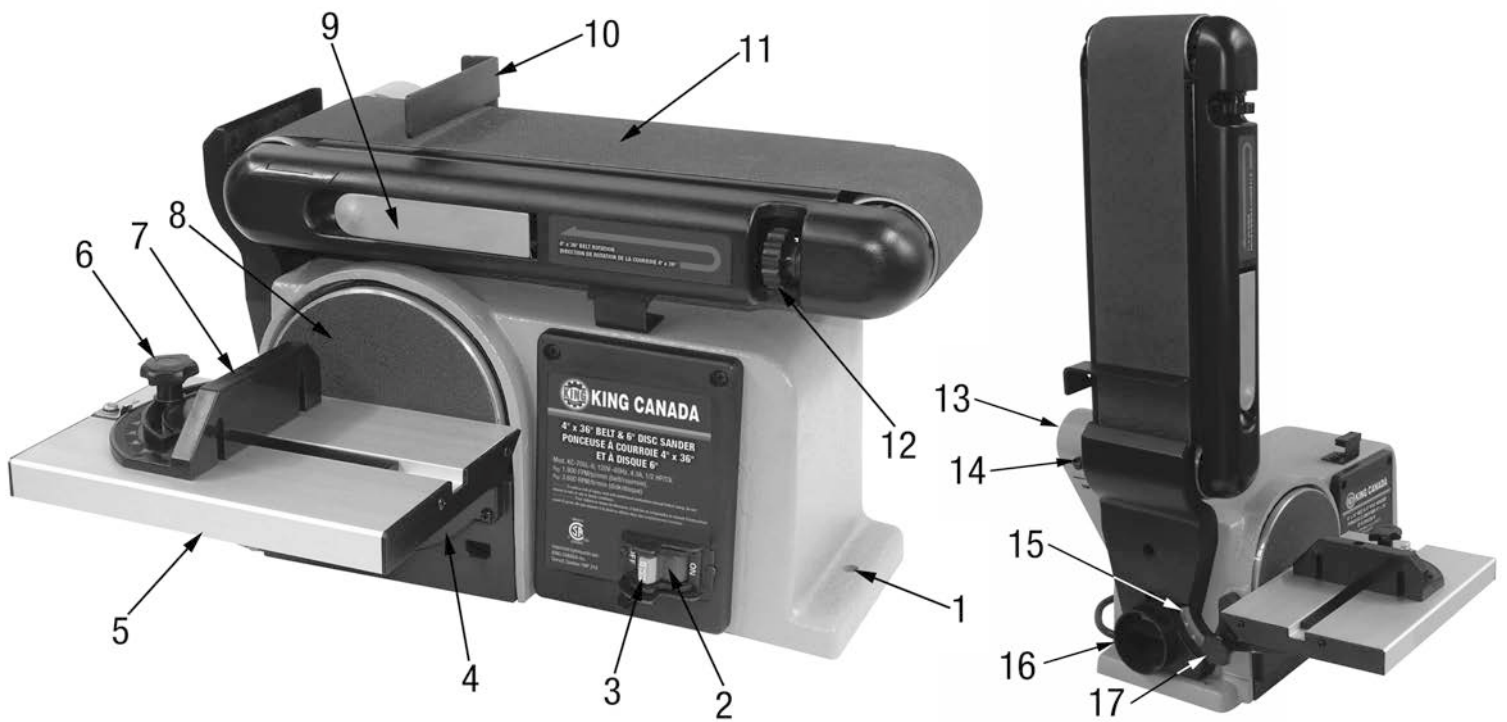
<u>LENGTH OF CONDUCTOR</u>	<u>WIRE SIZES REQUIRED (AMERICAN WIRE GAUGE)</u>
0-25 FEET	<u>110V LINES</u> NO.14
26-50 FEET	NO.12
51-100 FEET	Not recommended

Figure 2

# GETTING TO KNOW YOUR SANDER

## SPECIFICATIONS

Model.....	KC-705L-6
Belt .....	4" x 36"
Belt lift.....	0° - 90°
Belt speed.....	1,900 SFPM
Disc .....	6"
Disc speed .....	3,600 RPM
Motor .....	4.3 Amp.
Voltage .....	110V, 1 phase, 60 Hz
Dimensions/weight .....	17-1/2" x 14" x 10-1/4" / 38 lbs



### Getting to know your Sander

- |   |  |
|---|--|
| 1. Base with mounting hole (1 of 2).    | 10. Backstop.  |
| 2. On/Off switch.                       | 11. 4" x 36" Sanding belt.                               |
| 3. Removable switch safety key.         | 12. Belt tracking adjustment knob.                       |
| 4. Disc guard plate.                    | 13. Drive belt housing and cover.                        |
| 5. Aluminum tilting table.              | 14. Horizontal/vertical belt position locking cap screw. |
| 6. Miter guage angle setting lock knob. | 15. Table tilt angle scale.                              |
| 7. Miter gauge.                         | 16. 2-1/4" I.D. dust chute.                              |
| 8. 6" Sanding disc.                     | 17. Table angle lock knob.                               |
| 9. Belt tension lever.                  |  |

# ASSEMBLY

## MOUNTING BELT AND DISC SANDER TO WORKBENCH

If the belt and disc sander is to be used in a permanent location, it should be fastened securely to a firm supporting surface such as a workbench.

If mounting to a workbench, holes should be drilled through supporting surface of the workbench.

1. The unit should be bolted securely using 5/16" screws and hex nuts (not included). Screw length should be 1-1/2" plus the thickness of the bench top.
2. Locate and mark the holes where belt and disc sander is to be mounted.
3. Drill (2) 3/8" diameter holes through workbench.
4. Place belt and disc sander on workbench aligning holes on base with holes drilled in workbench.
5. Insert two 5/16" screws and tighten hex nuts.

**CAUTION:** To avoid injury from tool movement, use 5/16" or larger screws and nuts.

## CLAMPING BELT AND DISC SANDER TO WORKBENCH

The belt and disc sander can also be clamped directly to a workbench using two or more "C" clamps on base of unit (one clamp on each end of unit).

## INSTALLING SANDING DISC AND GUARD

1. Remove the disc guard (A) Fig.3 and two pan head screws (B) using a Phillips screwdriver.
2. Locate sanding disc (A) Fig.4 and peel backing from disc. Align perimeter of disc with plate and press disc firmly into position all the way around.
3. Reinstall disc guard (B) Fig.4, using a Phillips screwdriver, fasten the pan head screws (C) securely applying slight pressure to thread the holes.

## INSTALLING TABLE ASSEMBLY

1. Locate table assembly (A) Fig.5, washer and lock knob (B) among loose parts.
2. Position table support (C) in the corresponding hole (D) on the side of base.
3. Place washer on threaded shaft of lock knob (B) and insert through table support, tighten lock knob to secure table.

**WARNING:** To avoid trapping the work or fingers between the table and sanding surface, the table edge should be a maximum of 1/16" from sanding surface.

## INSTALLING BACKSTOP

1. Locate backstop (A) Fig.6 and two cap screws and washers (B).
2. Hold work support into position and fasten as shown. Do not overtighten.

**WARNING:** To avoid trapping the work or fingers between the backstop and sanding surface, the backstop edge should be a maximum of 1/16" from sanding surface.

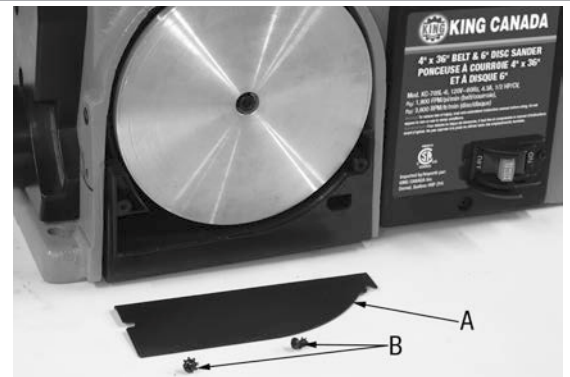


Figure 3

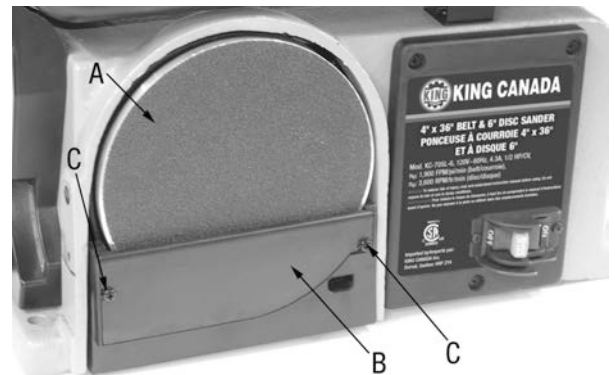


Figure 4

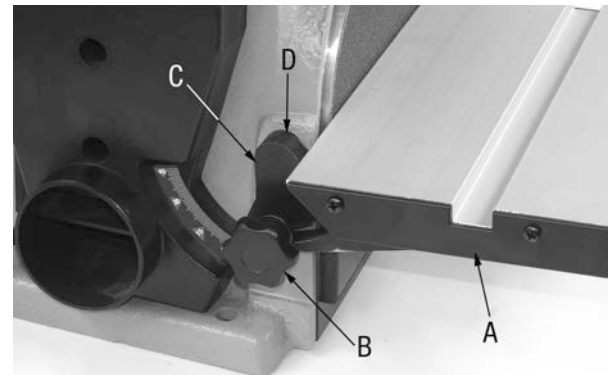


Figure 5

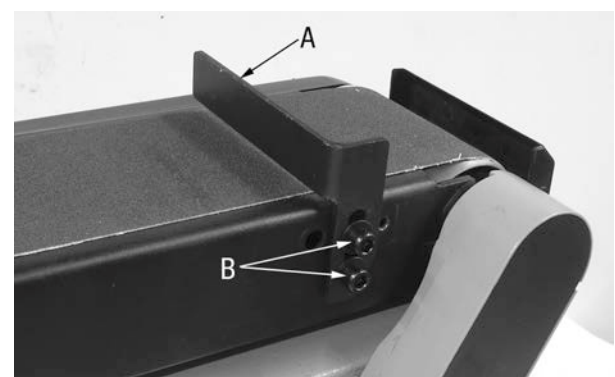


Figure 6

# ASSEMBLY

## INSTALLING TILTING TABLE FOR VERTICAL BELT SANDING

1. Remove backstop (A) Fig.6, cap screws and washers (B).
2. Remove table assembly (A) Fig.5 by removing table lock knob and washer (B).

**NOTE:** The sanding belt assembly (A) Fig.7 can be raised to vertical position by loosening cap screw (B) and raising the assembly.

3. Install the table assembly (C) Fig.7 to auxiliary holes on the side of the belt housing. Install and tighten lock knob and washer (D).

**NOTE:** No angle scale is provided on the belt housing, use a combination square to set the desired tilt angle.

**WARNING:** To avoid trapping the work or fingers between the table and sanding surface, the table edge should be a maximum of 1/16" from sanding surface.

## SQUARING TABLE ASSEMBLY (DISC & BELT)

1. Using a combination square (A) Fig.8, check the angle of the worktable with the disc/belt.
2. If the table is not 90° with the disc, loosen table lock knob (B) and tilt table.
3. Adjust worktable square to the disc or belt and retighten table lock knob.

## INSTALLING THE SANDING BELT- TENSIONNING AND TRACKING

**WARNING:** To avoid injury from accidental starting, turn switch "OFF", remove key and remove plug from power source outlet before removing or installing sanding belt.

On the smooth side of the sanding belt, you will find a "directional arrow". The sanding belt must run in the direction of this arrow so that the splice does not come apart.

1. Slide tension lever (A) Fig.9 to the right to release the belt tension.
2. Place the sanding belt (B) over the drums (C) with the directional arrow pointing as shown. Make sure the belt is centered on both drums (C).
3. Slide tension lever (A) to the left to apply belt tension.
4. Plug in the power cord. Turn switch "ON" and immediately "OFF", noting if the belt tends to slide off the idler drum or drive drum. If it did not tend to slide off, it is TRACKING properly.
5. If the sanding belt moves toward the disc, turn the tracking knob (A) Fig.10 clockwise 1/4 turn.
6. If the sanding belt moves away from the disc, turn the tracking knob (A) counter-clockwise 1/4 turn.
7. Turn switch "ON" and immediately "OFF" again, noting belt movement. Readjust tracking if necessary.

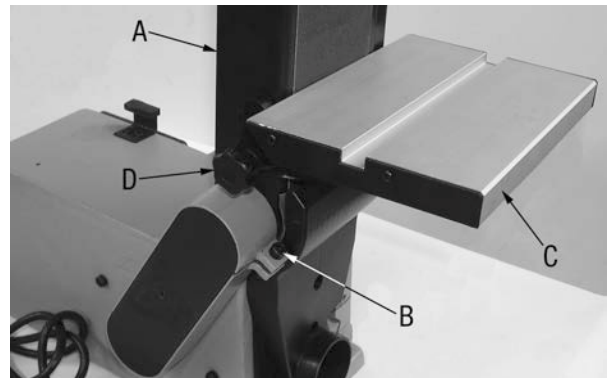


Figure 7

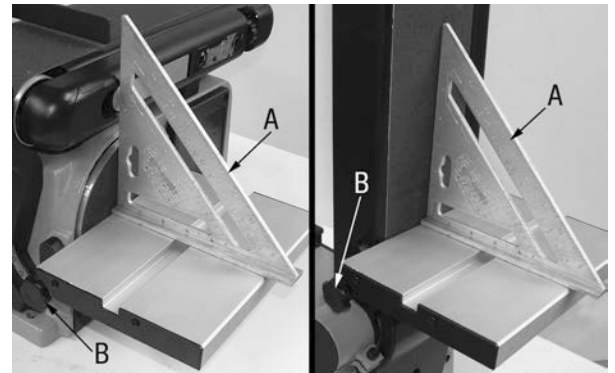


Figure 8

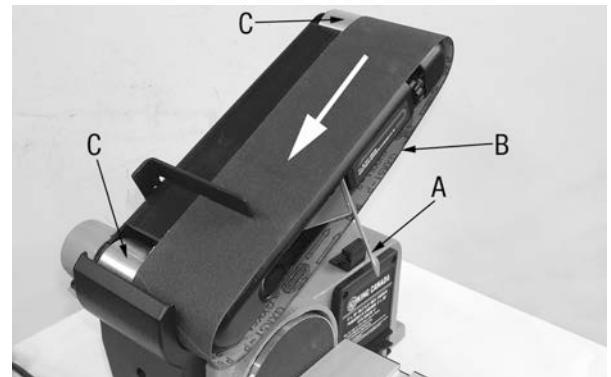


Figure 9

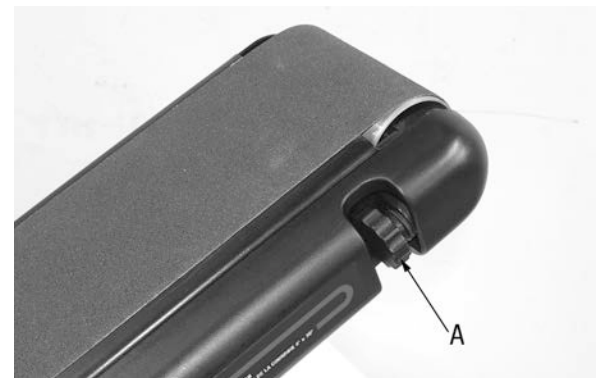


Figure 10



# OPERATION

## USING ON/OFF SWITCH WITH REMOVABLE SAFETY KEY

The On/Off switch (A) Fig.11 is used to turn the sander on and off. To turn the sander “On”, move the switch towards the right (On position), to turn the sander “Off”, move the switch towards the left (Off position).

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



Figure 11

## SURFACE SANDING ON THE SANDING BELT

**WARNING:** To avoid injury from slips, jams or thrown pieces, adjust the backstop to clear the sanding surface by no more than 1/16". When checking clearance between the belt and work support, press the belt flat against the metal beneath it.

Hold the workpiece firmly with both hands as shown in Fig.12, keeping fingers away from the sanding belt. Keep the end butted against the backstop and move the work evenly across the sanding belt. Use extra caution when sanding very thin pieces. Apply only enough pressure to allow the sanding belt to remove material.

For sanding long pieces, remove the backstop.



Figure 12

## BEVEL SANDING

The worktable can be tilted from 0° to 45° for bevel sanding. Loosen the table lock knob and tilt the worktable to desired angle as shown. Retighten table lock knob.

**WARNING:** To avoid trapping the work or fingers between the table and sanding surface, the table should be repositioned on the table support to retain a maximum of 1/16" distance between sanding surface and table.

## SANDING SMALL END SURFACES ON THE SANDING DISC

Always move the workpiece across left side of center on the sanding disc face as shown in Fig.13.

Always position the workpiece to the left of center on sanding disc with disc rotating counterclockwise. The table may be tilted for beveled work.

**WARNING:** Applying the workpiece to the right side of the disc could cause the workpiece to fly up (kickback), and result in an injury.



Figure 13

# MAINTENANCE & TROUBLESHOOTING

**WARNING:** For your own safety, turn switch "OFF" and remove plug from power source outlet before adjusting, maintaining, or lubricating your belt and disc sander.

**WARNING:** To avoid electrocution or fire, any repair to electrical system should be done by qualified service technicians. Unit must be reassembled exactly to factory specifications.

## LUBRICATION

The ball bearings in this machine are packed with grease at the factory. They require no further lubrication. All other moving parts should be sprayed with a liquid lubricant to ensure smooth operation.

## INSTALLING/TENSIONING DRIVE BELT

1. Using a Phillips screwdriver, remove the flat head screw (A) Fig.14 located in the middle of the drive belt cover (B).
2. Remove the cover (B) from the belt housing (C).
3. Loosen 3 screws (A) Fig.15 allowing the pulley to shift enough to position or remove belt (B). Place new belt around motor pulley and drive pulley as shown if belt is ever broken.
4. Slightly tighten the 3 screws (A) Fig.15. Adjust tension of belt by putting a flat head screwdriver in the bracket slot hole (C), just below the bottom of the belt housing (C) Fig.14. Pushing up on screwdriver will tighten the tension of the belt between the pulleys.
5. Tighten the 3 screws (A) Fig.15 being careful not to disturb belt and pulley position.
6. Test belt tension by placing fingers on either side of belt and squeeze, refer to Fig.16. There should be about a 1/4" give to the belt.

**NOTE:** Excessive tightness on pulley belt may cause increased noise and will overload motor. Excessive looseness on pulley belt may cause belt to fail prematurely.

7. Reinstall the belt cover (B) Fig.14 using flat head screw (A) and a Phillips screw driver.

## TROUBLESHOOTING

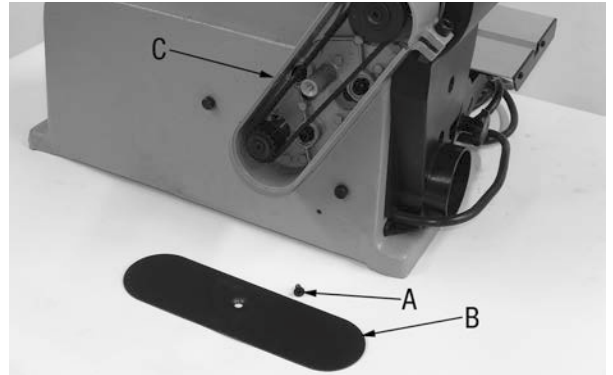


Figure 14

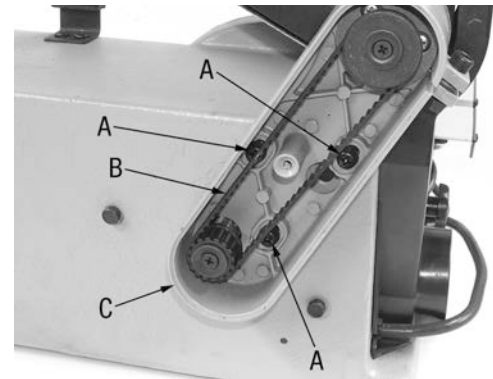


Figure 15



Figure 16

TROUBLE	PROBABLE CAUSE	SOLUTION
Motor will not run.	1. Defective ON-OFF switch. Defective switch cord. Defective switch box. 2. Burned out motor.	1. Replace defective parts before using sander again.  2. Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician.
Machine slows down when sanding.	1. Drive belt is too tight. 2. Applying too much pressure to workpiece.	1. Decrease belt tension. 2. Ease up on the pressure.
Belt runs off drums.	1. Not tracking properly.	1. Adjust tracking.
Wood burns while sanding.	1. Sanding disc or belt is glazed with sap.	1. Replace disc or belt.
Excessive noise.	1. Drive belt is too tight.	1. Decrease belt tension.