



KING KING CANADA

4" x 36" BELT AND 6" DISC SANDER



MODEL: KC-705L-5

INSTRUCTION MANUAL

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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 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.

PARTS DIAGRAM & PARTS LISTS

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

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

www.kingcanada.com

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. Use the fasteners and method shown in "Assembly and Alignment."
- **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.

WARNING!

1. Read manual before using sander.
2. Wear safety goggles.
3. Wear a dust mask.
4. Maintain 1/16" maximum clearance between table and sanding belt and disc.
5. Always support workplace with "backstop" or "worktable".
6. Avoid "Kickback" (Workpiece thrown at you) use only the left half of the disc.
7. Avoid fire. Clean out all sawdust and disconnect from any vacuum before sanding metals.

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.** Consult this Owner's manual for recommended accessories. Follow the instructions that come with the 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 of an inch. 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 owner's 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.

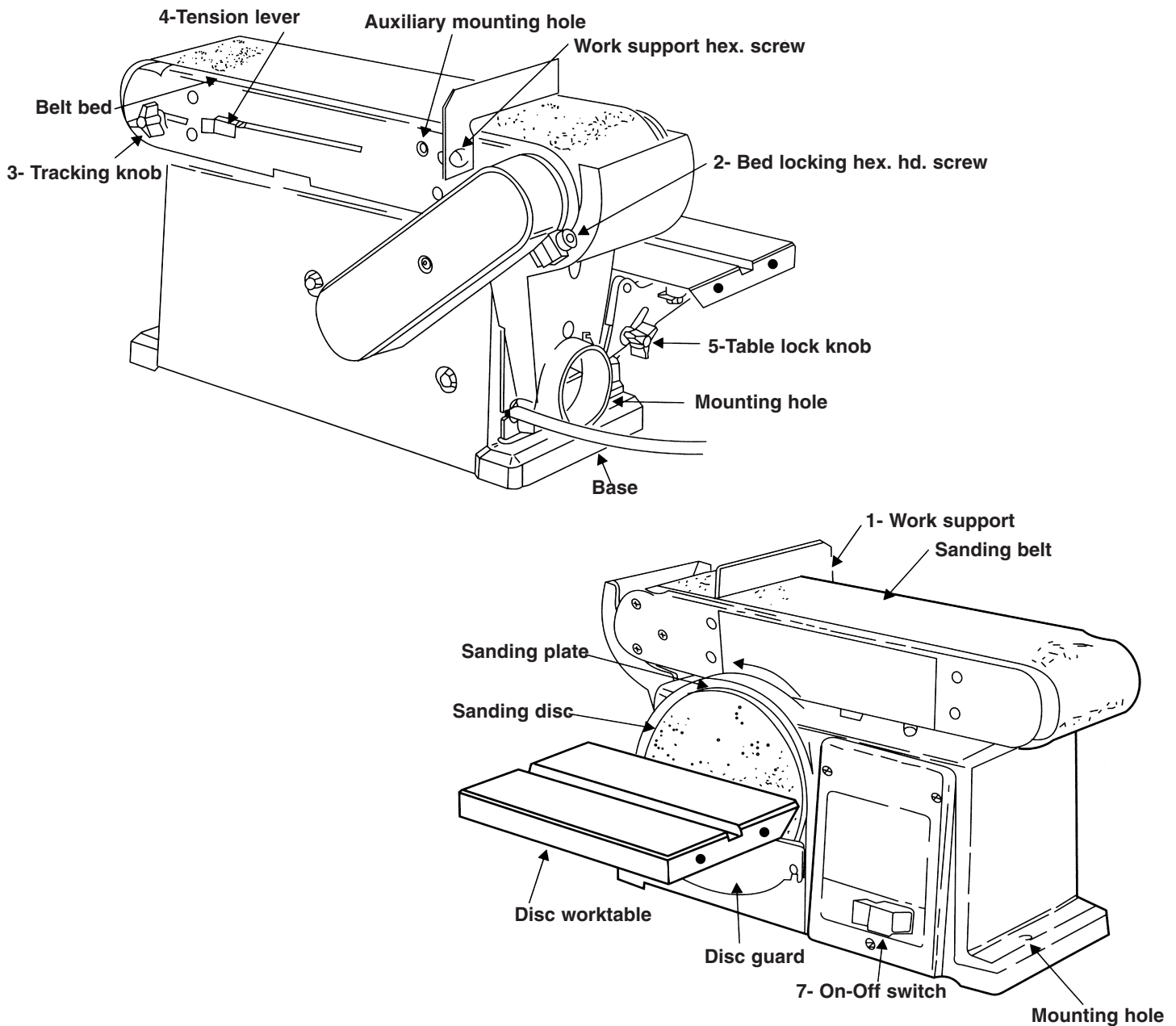
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GETTING TO KNOW YOUR SANDER



WARNING: To avoid injury from accidental start, turn switch "OFF" and remove plug from power source outlet before making any adjustments.

1. **Backstop.** Supports the workpiece on the sanding belt.
2. **Hex Socket Head Screw.** Loosening screw allows belt bed to be raised to the vertical position.
3. **Tracking Knob.** Turning knob counterclockwise causes sanding belt to move towards the disc, turning knob clockwise causes sanding belt to move away from the disc.

4. **Tension Lever.** Sliding lever to the right releases the sanding belt tension; sliding lever to the left applies belt tension.
5. **Table Lock Knob.** Loosening knob allows the worktable to be tilted for bevel sanding (Scale pointer on table trunnion; scale attached to base.)
6. **Auxiliary Mounting Hole.** Allows table assembly to be mounted for end sanding when the bed is placed in vertical position.
7. **On-Off Switch.**

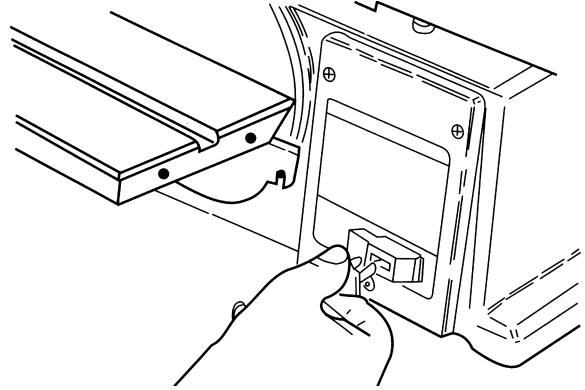
ON-OFF SWITCH



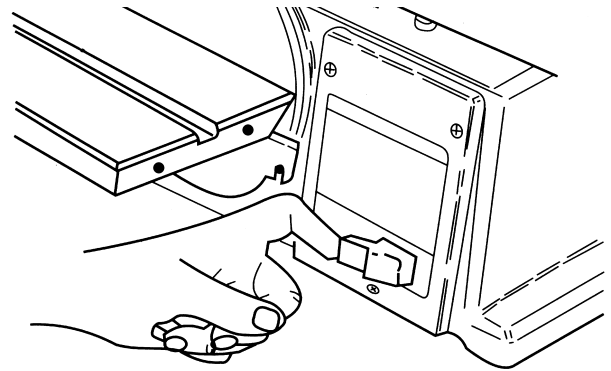
The On-Off switch has a locking feature. THIS FEATURE IS INTEN-DED TO HELP PREVENT UNAUTHORIZED AND POSSIBLY HAZARDOUS USE BY CHILDREN AND OTHERS.

1. To turn machine "ON", insert key into switch.

NOTE: Key is made of yellow plastic, located in loose parts bag.

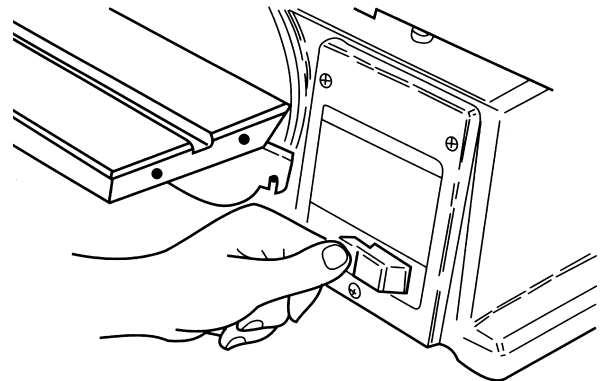


2. Insert finger under the switch lever and PULL end of switch out.



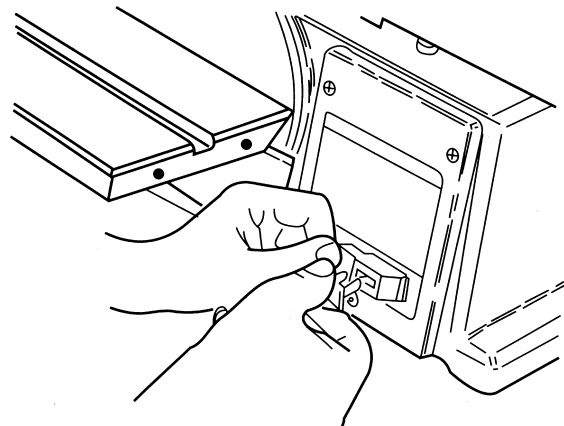
3. To turn machine "OFF", push lever in.

NEVER LEAVE THE MACHINE UNATTENDED UNTIL IT HAS COME TO A COMPLETE STOP.



4. To lock switch in OFF position... hold switch IN with one hand; REMOVE key with other hand.

WARNING: For your own safety, always lock the switch "OFF" when machine is not use, remove key and keep it in a safe place. Also in the event of a power failure, turn switch off and remove key, store it in a remote place away from the sander.





UNPACKING AND CHECKING CONTENTS

UNPAKING AND CHECKING CONTENTS

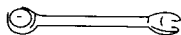
Separate all parts from packing materials and check each item with illustration and "Table of Loose Parts."

NOTE: Make certain all items are accounted for, before discarding any packing material.

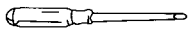
WARNING: To avoid injury, if any parts are missing, do not attempt to assemble the Belt and Disc Sander, plug in the power cord, or turn the switch on, until the missing parts are obtained and installed correctly.

WARNING: For your own safety, never connect plug to power source outlet, or insert switch key until all assembly steps are complete and until you have read and understood the entire instruction manual.

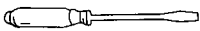
TOOLS NEEDED



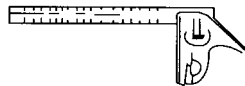
10mm Wrench



Phillips screwdriver



Standard screwdriver



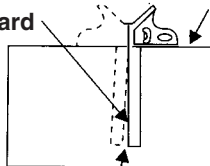
Combination square



6mm hex. key

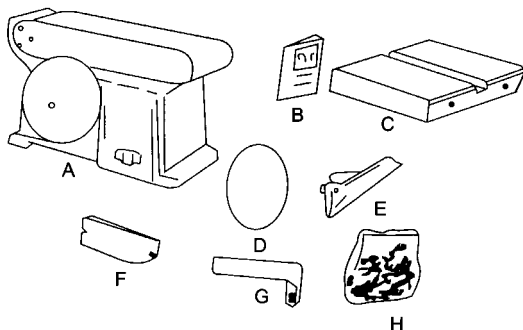
COMBINATION SQUARE MUST BE TRUE

Draw light line on board along this edge



Straight edge of board 3/4" thick. This edge must be perfectly straight

There should be no gap or overlay when the square is flipped over in dotted position



Item	Table of loose parts	Qty
A	Sander assembly	1
B	Instruction manual	1
C	Table	1
D	Sanding disc	1
E	Table support	1
F	Disc guard	1
G	Work support	1
H	Bag assembly contains:	
	Knob	1
	Washer	5
	Screw	2
	Switch key	1
	Lock washer	4
	Scale label	1
	Hex. hd. screw	4

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 using dimensions illustrated on the right.

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.

An alternate method of mounting is to fasten belt and disc sander to a mounting board and should be of sufficient size to avoid tipping of sander while in use. Any good grade of plywood or chipboard with a 3/4" minimum thickness is recommended. (Thinner chipboard can break).

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

1. Follow instructions for mounting to workbench, substituting a board 18"x 24" minimum size and using 5/16" inch flat head screws lock washer and hex nuts (not included). Screws length should be 1-1/2" plus the thickness of the mounting board.

NOTE: For proper stability, holes must be counter sunk so screw heads will be flush with the bottom surface or supporting board.

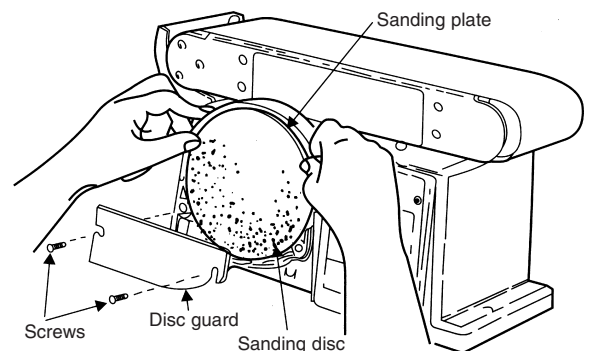
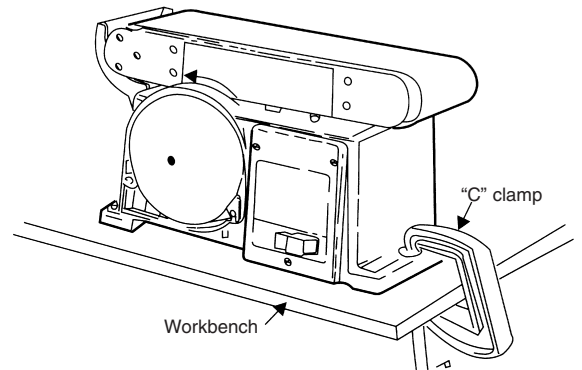
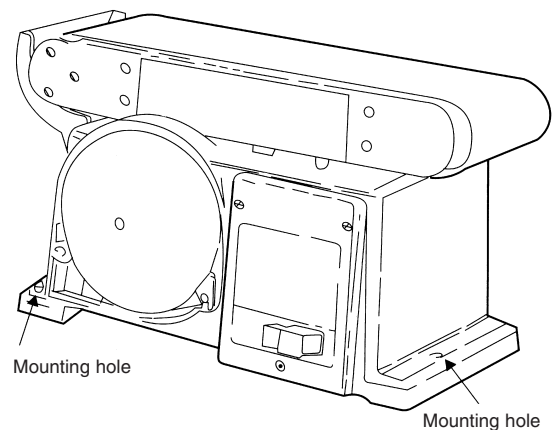
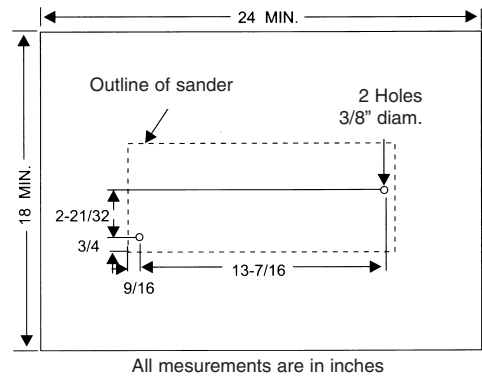
CAUTION: To avoid injury from tool movement, supporting surface where belt and disc sander is mounted should be examined carefully after mounting to ensure that no movement during use can result. If any tipping or walking is noted, secure workbench or supporting surface before operating belt and disc sander.

CLAMPING BELT AND DISC SANDER TO WORKBENCH

The belt and disc sander can be clamped directly to a workbench using two (2) or more "C" clamps on base of unit (one clamp on each of unit).

INSTALLING SANDING DISC AND GUARD

1. Locate sanding disc and peel backing from disc. Align perimeter of disc with plate and press disc firmly into position all the way around.
2. Locate disc guard and two pan head screws, from loose parts bag.
3. Position disc guard against lower 1/3 of disc aligning holes as shown.
4. Using Phillips type screwdriver, fasten the pan head screws securely applying slight pressure to thread the holes.

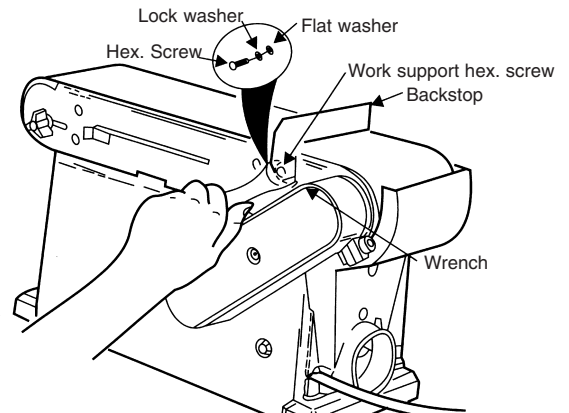




ASSEMBLY

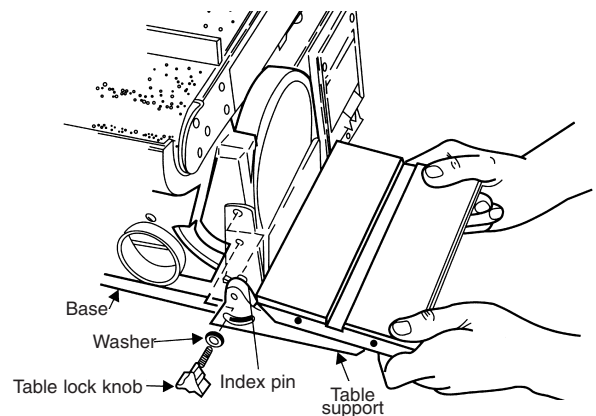
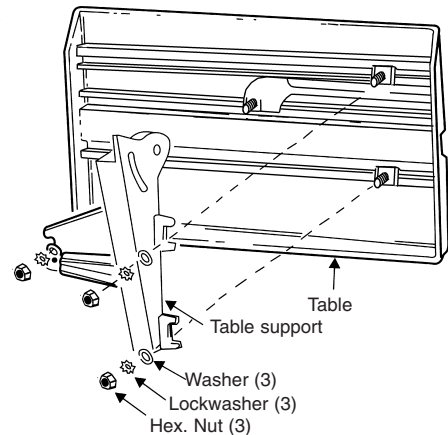
INSTALLING BACKSTOP

1. Locate backstop and hex. screw, washer and lockwasher.
2. Hold work support into position and fasten as shown. Do not overtighten.



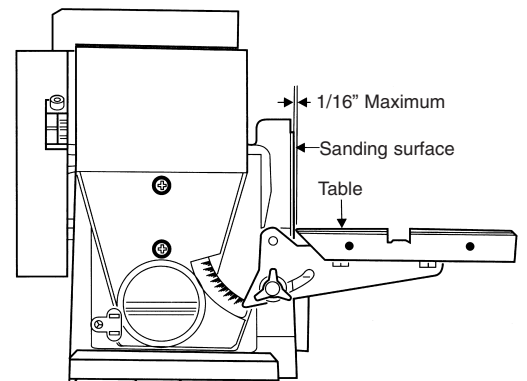
INSTALLING TABLE ASSEMBLY

1. Locate table support and (3) hex. nuts washers and lockwashers among loose parts.
2. Position table support against table, aligning holes as shown.
3. Fasten table support to table with hex. nuts washers and lockwashers as shown.
4. Locate washer and knob among loose parts.
5. Position table support in corresponding holes on side of base as shown. Make sure the 9.5 mm diameter index pin aligns with upper hole.
6. Place washer on threaded shaft of knob and insert through slot into holes of base.



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

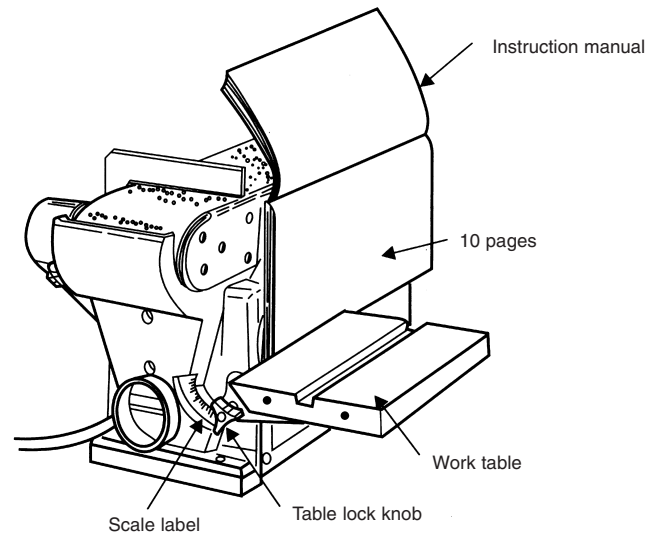
7. Loosen the (3) hex head screws and adjust table.



ASSEMBLY

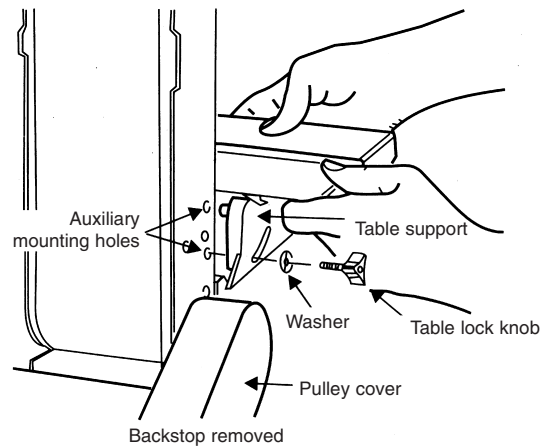


- Use your Instruction manual as a spacer. Place ten pages of the Instruction manual between the disc and the front edge of the table. Hold the table against the manual and tighten the three (3) hex. hd. screws.



AUXILIARY MOUNTING FOR VERTICAL SANDING

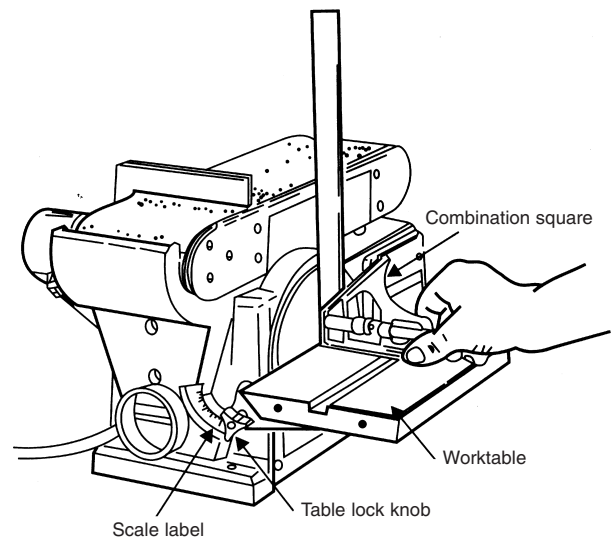
- Remove backstop lock bolt and remove work support.
 - Remove table assembly by removing table lock knob and washer.
- NOTE:** Belt bed may be raised to vertical position by loosening hex socket screw and raising bed. See "Positioning Belt Bed".
- Attach table assembly to auxiliary holes in belt bed. Make sure index pin is in the upper hole when sanding table is in the vertical position.



SQUARING TABLE ASSEMBLY

WARNING: To avoid injury from accidental starting, make sure tool is unplugged before aligning.

- Using a combination square, check the angle of the worktable with the disc.
- NOTE:** The combination square, must be "true"- See "Unpacking - Tools Needed" section.
- If the table is not 90° with the disc, loosen table lock knob screw and tilt table.
 - Adjust worktable square to the disc and retighten table lock knob.
 - Attach scale label to 0° mark on dust guard.





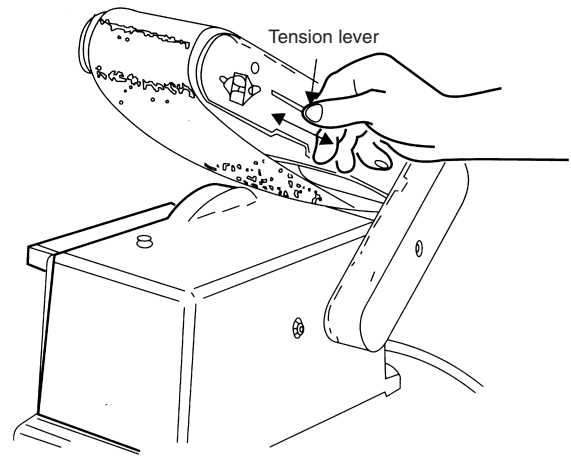
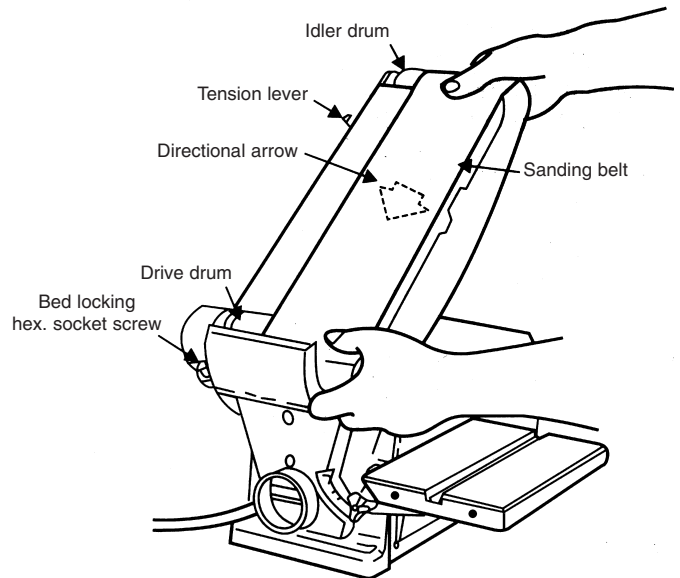
ASSEMBLY

INSTALLING THE SANDING BELT- TENSIONNING AND TRACKING

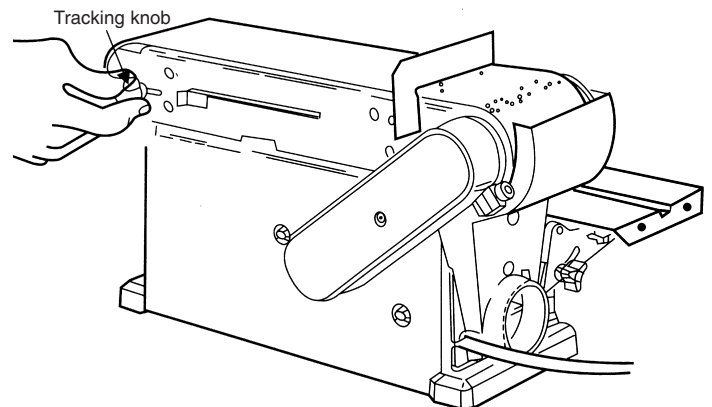
WARNING: To avoid injury from accidental starting, turn switch "OFF", remove key and remove plug from power source outlet before removing or installing sanding belt.

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 to the right to release the belt tension.
2. Place the sanding belt over the drums with the directional arrow pointing as shown. Make sure the belt is centered on both drums.
3. Slide tension lever to the left to apply belt tension.
4. Tighten hex. socket screw when bed is in desired position.
5. 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.



6. If the sanding belt moves toward the disc, turn the tracking knob clockwise 1/4 turn.
7. If the sanding belt moves away from the disc, turn the tracking knob counterclockwise 1/4 turn.
8. Turn switch "ON" and immediately "OFF" again, noting belt movement. Readjust tracking if necessary.





BASIC OPERATION

BEFORE USING THE SANDER

WARNING: To avoid mistakes that could cause serious, permanent injury, do not plug the sander in until the following steps are completed.

- Assembly and alignment
- Learn the use and function of the ON-OFF switch backstop, belt tracking knob, belt function lever, work table and work tilt lock knob.
- Review of the maintenance methods for this sander.

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,
- Worn 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 instructions 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. Consult this Instruction manual for recommended accessories. Follow the instructions that come with the accessories. The use of improper accessories may cause risk of injury to persons.

-Adjust any work support to clear the sanding surface by no more than 1/16 of an inch. 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. Floors must not be slippery.

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

PLAN AHEAD TO PROTECT YOUR EYES, HAND, FACE, EARS

KNOW YOUR SANDER. Read and understand the instruction manual and labels affixed to the tool. Learn its applications and limitations as well as the specific potential hazards related to this tool.

To avoid injury from accidental contact with moving parts:

-KEEP GUARDS 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.

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 sander can throw foreign objects into the eyes. This can cause permanent eye damage. Wear safety glasses. 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 you into moving parts.

-Wear nonslip footwear.

-Tie back long hair.

-Roll long sleeves 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 dustmask 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 is torn from your hands.

-Make sure there's no debris between the workpieces, 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.



BASIC OPERATION

- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (table, saw horses, blocks, ect.) 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 the side of 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 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.

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 inch distance between sanding surface and table.

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 or binding and workpiece.

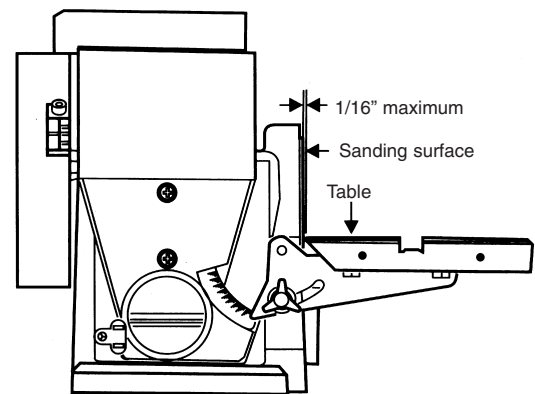
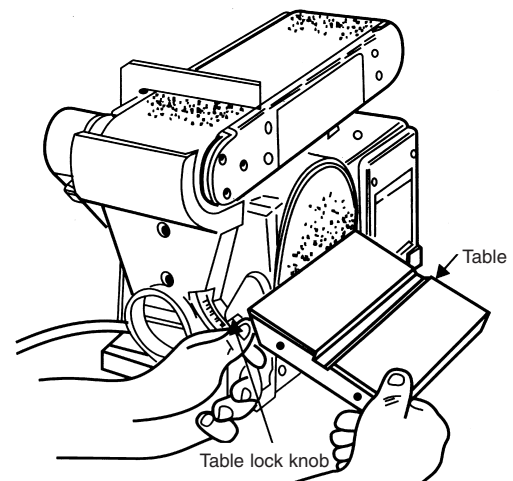
Before freeing any jammed material:

- 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.



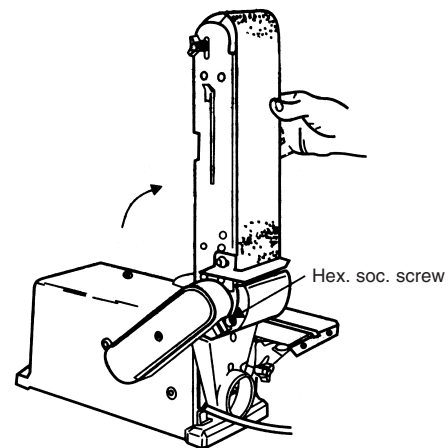
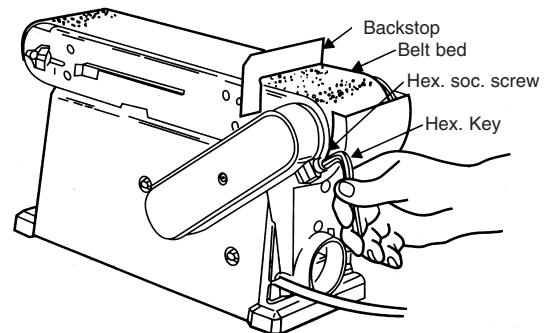
BASIC OPERATION



POSITIONING BELT BED

A bed locking hex. socket head screw locks the belt bed in a vertical or horizontal position. To adjust vertical position:

1. Remove the backstop.
2. Loosen the hex socket head locking screw using a 6mm hex wrench.
3. Position belt bed vertically as shown and tighten the hex. socket head screw.



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 of an inch. 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, 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.

For sanding long pieces, remove the work support.

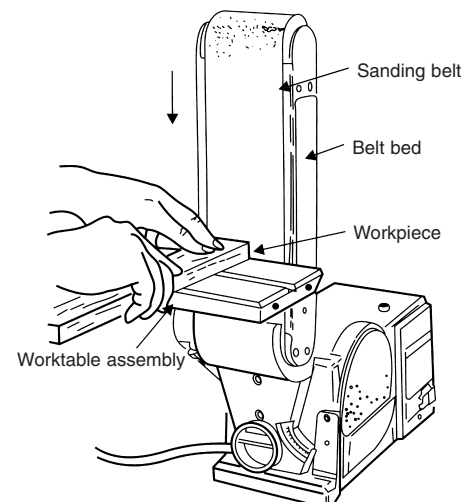
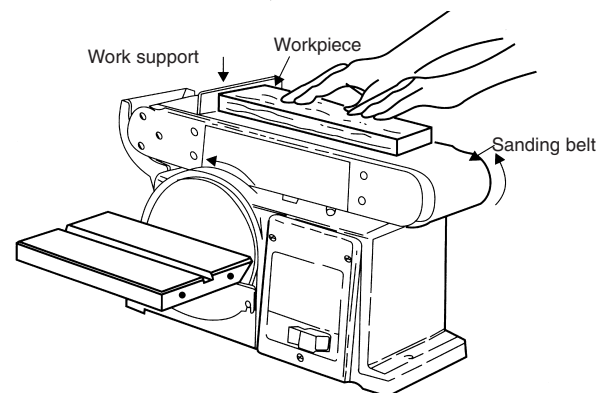
Apply only enough pressure to allow the sanding belt to remove material.

END SANDING ON THE SANDING BELT

It is more convenient to sand the ends of long workpieces with sanding belt in a vertical position.

See "Basic Operation-Positioning Belt Bed" for adjusting the belt bed, and see "Assembly - Installing Table Assembly" for adjusting worktable.

Move the work evenly across the sanding belt. For accuracy, use a miter gauge.



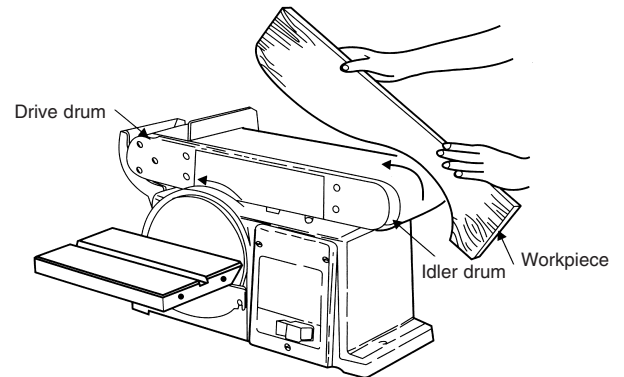


BASIC OPERATION

SANDING CURVED EDGES

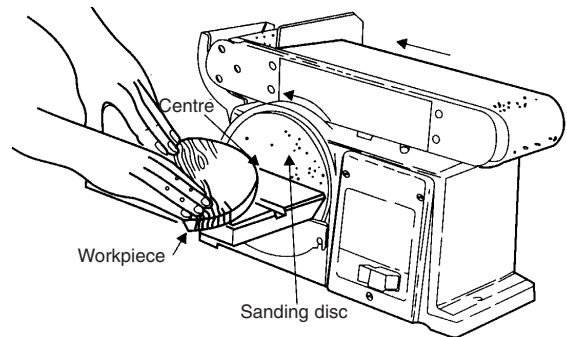
Always sand inside curves on the idler as shown.

WARNING: Never attempt to sand the ends of a workpiece on the idler drum. Applying the end of the workpiece to the idler drum could cause the workpiece to fly up and result in an injury.



Always sand outside curves on the left side of center on the sanding disc as shown.

WARNING: Applying the workpiece to the right side of the disc could cause workpiece to fly up (kick-back) and result in an injury.

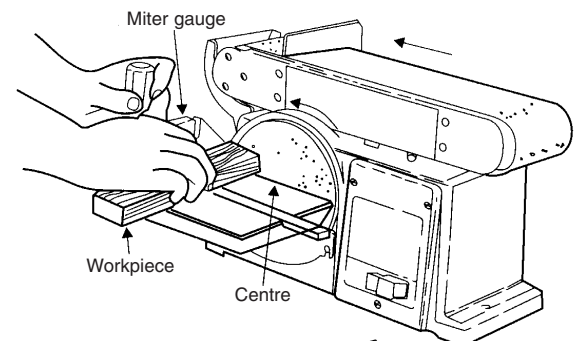


SANDING SMALL END SURFACES ON THE SANDING DISC

NOTE: Use of a Miter Gauge is recommended for this operation.

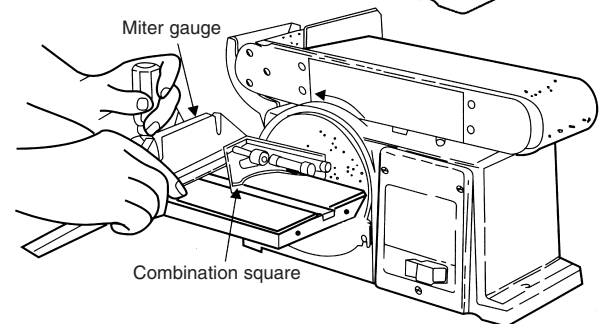
Always move the work across left side of center on the sanding disc face as shown.

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

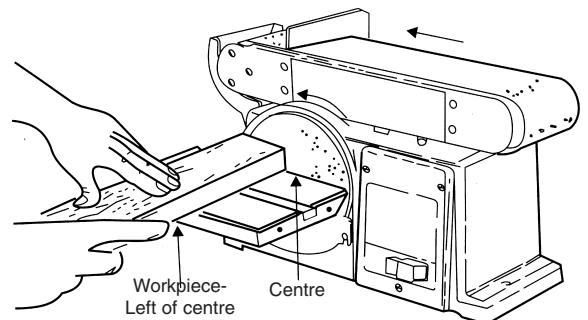


WARNING: For your own safety, turn switch "OFF" and remove plug from power source outlet before adjusting your sander.

NOTE: Use a combination square to square the miter gauge to the face of the disc (combination square must be "true" - See "Unpacking-Tools Needed" section for checking this method). If it is not square, loosen the miter gauge knob and move the miter gauge slightly until it is square. Without moving the miter gauge, tighten the knob securely.



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



MAINTENANCE



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 systems should be done by qualified service technicians. Unit must be reassembled exactly to factory specifications.

If power cord is worn or cut, or damaged or any dust that may accumulate inside the motor, have it replaced immediately. A coat of automobile-type wax applied to the worktable will make it easier to feed the work while finishing.

Do not apply wax to the abrasive belt table because the belt could pick up the wax and deposit it on the pulleys, causing the belt to slip.

LUBRICATION

The **BALL BEARINGS** in this machine are packed with grease at the factory. They require no further lubrication. Sleeve bearings should be lubricated with 30W oil or equivalent after each 10 hours of operation-see instructions below.

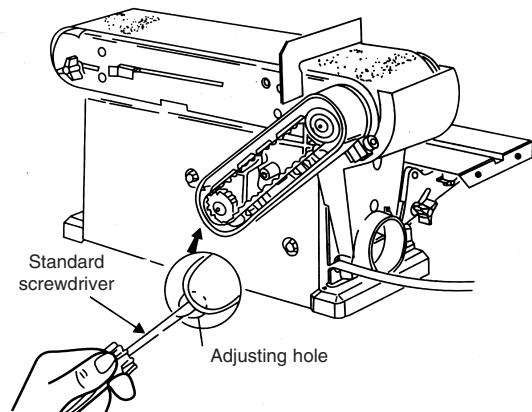
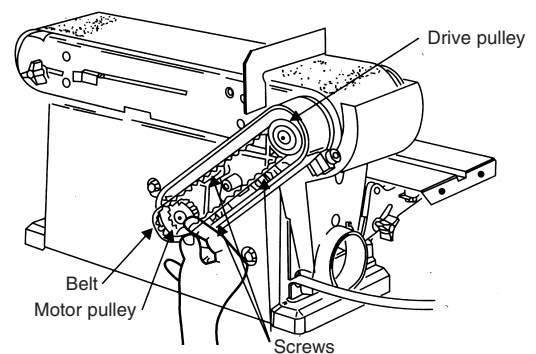
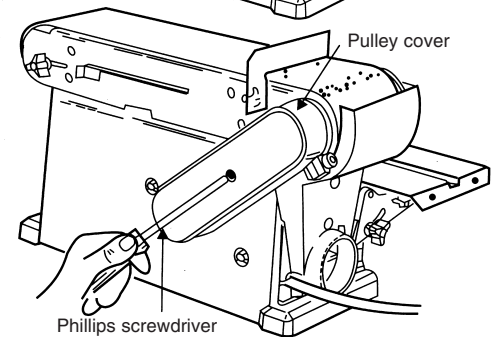
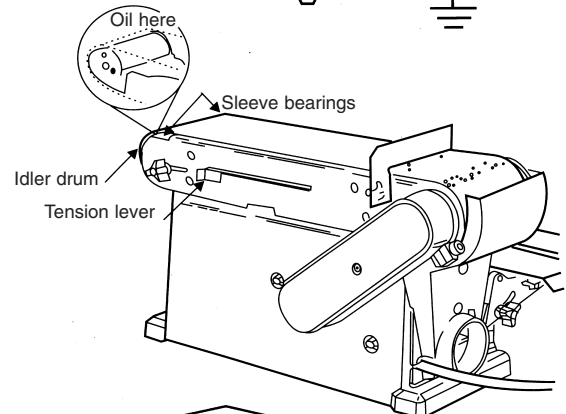
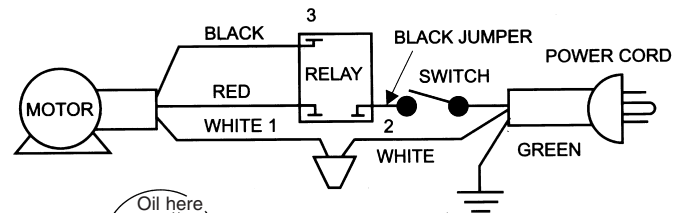
OILING SLEEVE BEARINGS

WARNING: TO AVOID INJURY, TURN SWITCH "OFF" REMOVE KEY AND REMOVE PLUG FROM POWER SOURCE OUTLET BEFORE OILING UNIT.

1. Release belt tension by sliding the tension lever to the right.
2. Move the sanding belt slightly to either side of the idler drum to expose the oval shaped oiling hole.
3. Apply two to three drops of oil in the hole on each side as shown. Do not apply more than three drops of oil. Too much oil can cause belt to slip, and oil may get on workpiece.
4. Adjust belt tracking as described in the Assembly instructions under the heading "Installing the Sanding Belt- Tensioning and Tracking"

REMOVING PULLEY COVER AND INSTALLING DRIVE BELT

1. Using a Phillips screwdriver, remove the flat head screw located in the middle of the cover.
2. Remove the cover.
3. Loosen (3) screws to allow pulleys to shift enough to place belt around them. Place belt around motor pulley and drive pulley as shown if belt is ever broken.
4. Slightly tighten (3) screws. Adjust tension of belt by putting blade screwdriver in adjusting hole. Push up on screwdriver to tighten tension between pulleys.
5. Tighten screws being careful not to disturb belt.

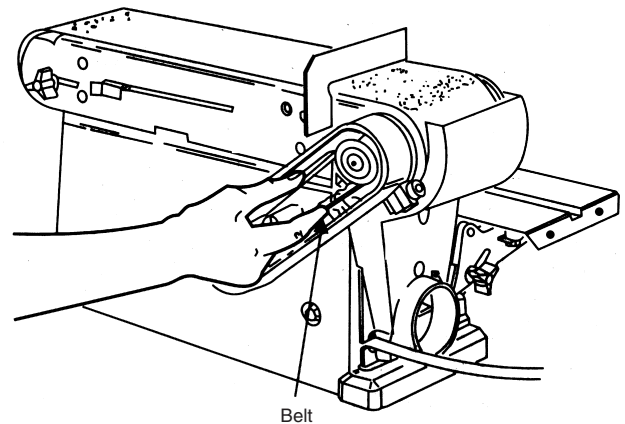




MAINTENANCE & TROUBLESHOOTING

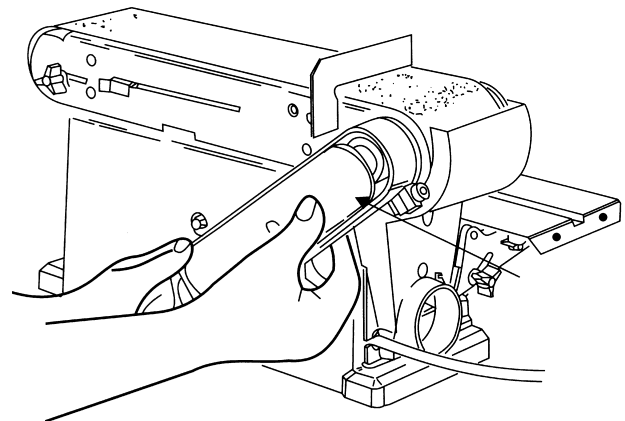
6. Test belt tension by placing fingers on either side of belt and squeeze. There should be about a 1/4" give to the belt.

NOTE: Excessive tightness on pulley belt may cause increased noise and over load motor. Excessive looseness on pulley belt may cause belt to fail prematurely.



INSTALLING PULLEY COVER

1. Locate the pulley cover and position it inside the relief edges of pulley housing.
2. Using a Phillips scwdriver, reinstall and tighten the flat head screw.



TROUBLESHOOTING

WARNING: For your own safety, turn switch "OFF" and remove plug from power source outlet before troubleshooting your sander.

TROUBLE	PROBABLE CAUSE	SOLUTION
Motor will not run.	<ol style="list-style-type: none"> 1. Defective ON-OFF switch. Defective switch cord. Defective switch box. 2. Burned out motor. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1. Drive belt is too tight. 2. Applying too much pressure to workpiece. 	<ol style="list-style-type: none"> 1. Decrease belt tension. 2. Ease up on the pressure.
Belt runs off drums.	<ol style="list-style-type: none"> 1. Not tracking properly. 	<ol style="list-style-type: none"> 1. Adjust tracking.
Wood burns while sanding.	<ol style="list-style-type: none"> 1. Sanding disc or belt is glazed with sap. 	<ol style="list-style-type: none"> 1. Replace disc or belt.
Excessive noise.	<ol style="list-style-type: none"> 1. Drive belt is too tight. 	<ol style="list-style-type: none"> 1. Decrease belt tension.