

14" Bandsaw



Operator's Manual

Record the serial number and date of purchase in your manual for future reference.

Serial Number: _____ Date of purchase: _____

For technical support, email techsupport@rikontools.com - For parts questions email parts@rikontools.com

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SPECIFICATIONS

Motor	1 HP, TEFC
Motor Speed (no load).....	1,700 RPM
Volts	120 / 240 V
Amps, Hertz, Phase	9 / 4.5 A, 60 Hz, 1Ph
Blade Length	99-3/4" (2,534 mm)
Blade Width	1/4" - 3/4" (6 - 19 mm)
Blade Speed	1,620 / 3,340 ft/min (494 / 1,108 m/min)
Table Size (W x D)	20-3/8" x 15-3/4" (518 x 400 mm)
Table Tilt	Left -10° / Right 45°
Miter Gauge T-Slots (2)	3/4" x 3/8"
Maximum Cutting Width (throat)	13-5/8" (346 mm)
Maximum Cutting Depth (height)	8" (204 mm)
Table Height	41" (1,041 mm)
Dust Ports (2)	2-1/2" & 4" Diameters (63.5 & 100 mm)
Overall Height	67-1/4" (1,745 mm)
Overall Width x Depth.....	37" x 22-3/4" (835 x 565 mm)
Net Weight	160 lbs (72 kg)

NOTE: The specifications, photographs, drawings and information in this manual represent the current model when the manual was prepared. Changes and improvements may be made at any time, with no obligation on the part of Rikon Power Tools, Inc. to modify previously delivered units. Reasonable care has been taken to ensure that the information in this manual is correct, to provide you with the guidelines for the proper safety, assembly and operation of this machine.

SAFETY INSTRUCTIONS

IMPORTANT! Safety is the single most important consideration in the operation of this equipment. **The following instructions must be followed at all times.** Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

There are certain applications for which this tool was designed. We strongly recommend that this tool not be modified and/or used for any other application other than that for which it was designed. If you have any questions about its application, do not use the tool until you have contacted us and we have advised you.

SAFETY SYMBOLS



SAFETY ALERT SYMBOL: Indicates DANGER, WARNING, or CAUTION. This symbol may be used in conjunction with other symbols or pictographs.



Indicates an imminently hazardous situation, which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.

NOTICE: Shown without Safety Alert Symbol indicates a situation that may result in property damage.

GENERAL SAFETY

KNOW YOUR POWER TOOL. Read the owner's manual carefully. Learn the tool's applications, work capabilities, and its specific potential hazards.

BEFORE USING YOUR MACHINE

To avoid serious injury and damage to the tool, read and follow all of the Safety and Operating Instructions before operating the machine.

1. Some dust created by using power tools contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

2. **READ** the entire Owner's Manual. **LEARN** how to use the tool for its intended applications.

3. **GROUND ALL TOOLS.** If the tool is supplied with a 3 prong plug, it must be plugged into a 3-contact electrical receptacle. The 3rd prong is used to ground the tool and provide protection against accidental electric shock. **DO NOT** remove the 3rd prong. See Grounding Instructions on the following pages.

4. **AVOID A DANGEROUS WORKING ENVIRONMENT.** **DO NOT** use electrical tools in a damp environment or expose them to rain.

5. **DO NOT** use electrical tools in the presence of flammable liquids or gasses.

6. **ALWAYS** keep the work area clean, well lit, and organized. **DO NOT** work in an environment with floor surfaces that are slippery from debris, grease, and wax.

7. **KEEP VISITORS AND CHILDREN AWAY. DO NOT** permit people to be in the immediate work area, especially when the electrical tool is operating.

8. **DO NOT FORCE THE TOOL** to perform an operation for which it was not designed. It will do a safer and higher quality job by only performing operations for which the tool was intended.

9. **WEAR PROPER CLOTHING. DO NOT** wear loose clothing, gloves, neckties, or jewelry. These items can get caught in the machine during operations and pull the operator into the moving parts. The user must wear a protective cover on their hair, if the hair is long, to prevent it from contacting any moving parts.

10. **CHILDPROOF THE WORKSHOP AREA** by removing switch keys, unplugging tools from the electrical receptacles, and using padlocks.

11. **ALWAYS UNPLUG THE TOOL FROM THE ELECTRICAL RECEPTACLE** when making adjustments, changing parts or performing any maintenance.

SAFETY INSTRUCTIONS

12. KEEP PROTECTIVE GUARDS IN PLACE AND IN WORKING ORDER.

13. AVOID ACCIDENTAL STARTING. Make sure that the power switch is in the “OFF” position before plugging in the power cord to the electrical receptacle.

14. REMOVE ALL MAINTENANCE TOOLS from the immediate area prior to turning “ON” the machine.

15. USE ONLY RECOMMENDED ACCESSORIES. Use of incorrect or improper accessories could cause serious injury to the operator and cause damage to the tool. If in doubt, check the instruction manual that comes with that particular accessory.

16. NEVER LEAVE A RUNNING TOOL UNATTENDED. Turn the power switch to the “OFF” position. **DO NOT** leave the tool until it has come to a complete stop.

17. DO NOT STAND ON A TOOL. Serious injury could result if the tool tips over, or you accidentally contact the tool.

18. DO NOT store anything above or near the tool where anyone might try to stand on the tool to reach it.

19. MAINTAIN YOUR BALANCE. DO NOT extend yourself over the tool. Wear oil resistant rubber soled shoes. Keep floor clear of debris, grease, and wax.

20. MAINTAIN TOOLS WITH CARE. Always keep tools clean and in good working order. Keep all blades and tool bits sharp, dress grinding wheels and change other abrasive accessories when worn.

21. EACH AND EVERY TIME, CHECK FOR DAMAGED PARTS PRIOR TO USING THE TOOL. Carefully check all guards to see that they operate properly, are not damaged, and perform their intended functions. Check for alignment, binding or breaking of moving parts. A guard or other part that is damaged should be immediately repaired or replaced.

22. DO NOT OPERATE TOOL WHILE TIRED, OR UNDER THE INFLUENCE OF DRUGS, MEDICATION OR ALCOHOL.

23. SECURE ALL WORK. Use clamps or jigs to secure the work piece. This is safer than attempting to hold the work piece with your hands.

24. STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE WHEN OPERATING A POWER TOOL.

A moment of inattention while operating power tools may result in serious personal injury.

25. ALWAYS WEAR A DUST MASK TO PREVENT INHALING DANGEROUS DUST OR AIRBORNE PARTICLES, including wood dust, crystalline silica dust and asbestos dust. Direct particles away from face and body. Always operate tool in well ventilated area and provide for proper dust removal. Use dust collection system wherever possible. Exposure to the dust may cause serious and permanent respiratory or other injury, including silicosis (a serious lung disease), cancer, and death. Avoid breathing the dust, and avoid prolonged contact with dust. Allowing dust to get into your mouth or eyes, or lay on your skin may promote absorption of harmful material. Always use properly fitting NIOSH/OSHA approved respiratory protection appropriate for the dust exposure, and wash exposed areas with soap and water.

26. USE A PROPER EXTENSION CORD IN GOOD CONDITION. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. The table on the following page shows the correct size to use depending on cord length and nameplate amperage rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the larger diameter of the extension cord. If in doubt of the proper size of an extension cord, use a shorter and thicker cord. An undersized cord will cause a drop in line voltage resulting in a loss of power and overheating.
USE ONLY A 3-WIRE EXTENSION CORD THAT HAS A 3-PRONG GROUNDING PLUG AND A 3-POLE RECEPTACLE THAT ACCEPTS THE TOOL’S PLUG.

27. ADDITIONAL INFORMATION regarding the safe and proper operation of this product is available from:

- Power Tool Institute
1300 Summer Avenue
Cleveland, OH 44115-2851
www.powertoolinstitute.org
- National Safety Council
1121 Spring Lake Drive
Itasca, IL 60143-3201
www.nsc.org
- American National Standards Institute
25 West 43rd Street, 4th Floor
New York, NY 10036
www.ansi.org
- ANSI 01.1 Safety Requirements for Woodworking Machines and the U.S. Department of Labor regulations
www.osha.gov

28. SAVE THESE INSTRUCTIONS. Refer to them frequently and use them to instruct others.

SAFETY INSTRUCTIONS

ELECTRICAL SAFETY

⚠ WARNING: THIS TOOL IS PRE-WIRED FOR 115V CIRCUITS, AND MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and requires a grounding plug (not included). The plug **MUST** be plugged into a matching electrical receptacle that is properly installed and grounded in accordance with **ALL** local codes and ordinances.

DO NOT MODIFY ANY PLUG. If it will not fit the electrical receptacle, have the proper electrical receptacle installed by a qualified electrician.

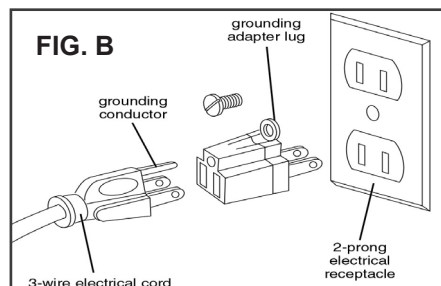
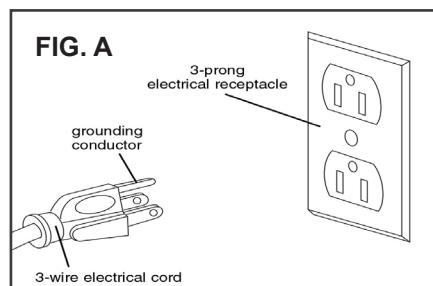
IMPROPER ELECTRICAL CONNECTION of the equipment grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. **DO NOT** connect the equipment grounding conductor to a live terminal if repair or replacement of the electric cord or plug is necessary.

CHECK with a qualified electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded when installing or replacing a plug.

USE ONLY A 3-WIRE EXTENSION CORD THAT HAS THE PROPER TYPE OF A 3-PRONG GROUNDING PLUG THAT MATCHES THE MACHINE'S 3-PRONG PLUG AND ALSO THE 3-POLE RECEPTACLE THAT ACCEPTS THE TOOL'S PLUG. * See Figures A and B.

REPLACE A DAMAGED OR WORN CORD IMMEDIATELY.

This tool is intended for use on a circuit that has a 120 volt electrical receptacle. **FIGURE C** shows the type of the 220V, 3-wire electrical plug and electrical receptacle that has a grounding conductor that is required if the motor wiring is changed. See page 23.



EXTENSION CORDS

⚠ WARNING: THE USE OF AN EXTENSION CORD WITH THIS MACHINE IS NOT RECOMMENDED. For best power and safety, plug the machine directly into a dedicated, grounded electrical outlet that is within the supplied cord length of the machine.

If an extension cord needs to be used, it should only be for a limited operation of the machine. The extension cord should be as short as possible in length, and have a minimum gauge size of 14AWG.

⚠ WARNING: Check extension cords before each use. If damaged replace immediately. Never use a tool with a damaged cord, since touching the damaged area could cause electrical shock, and serious injury.

Use a proper extension cord. Only use cords listed by Underwriters Laboratories (UL). Other extension cords can cause a drop in line voltage, resulting in a loss of power and overheating of tool. When operating a power tool outdoors, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

MINIMUM RECOMMENDED GAUGE FOR EXTENSION CORDS (AWG)

120 VOLT OPERATION ONLY				
	25' LONG	50' LONG	100' LONG	150' LONG
0 to 6 Amps	18 AWG	16 AWG	16 AWG	14 AWG
6 to 10 Amps	18 AWG	16 AWG	14 AWG	12 AWG
10 to 12 Amps	16 AWG	16 AWG	14 AWG	12 AWG

⚠ WARNING: Keep the extension cord clear of the working area. Position the cord so that it will not get caught on lumber, tools or other obstructions while you are working with your power tool.

* Canadian electrical codes require extension cords to be certified SJT type or better.

** The use of an adapter in Canada is not acceptable.

FIG. C Sample of 220 volt plug if motor wiring is changed.



NEMA 6-15P

Consult a qualified electrician if the distance of the machine from the electrical panel is greater than 30 feet.

SAFETY INSTRUCTIONS

SPECIFIC SAFETY INSTRUCTIONS FOR BAND SAWS

This machine is intended for the cutting of natural, solid woods, composite materials, plastics and non-ferrous metals. The permissible workpiece dimensions must be observed (see Technical Specification). Any other use not as specified, including modification of the machine or use of parts not tested and approved by the equipment manufacturer, can cause unforeseen damage and invalidate the warranty.

ATTENTION: Use of this band saw still presents risks that cannot be eliminated by the manufacturer. Therefore, the user must be aware that wood working machines are dangerous if not used with care and all safety precautions are adhered to.

1. Do not operate this machine until you have read all of the following instructions.
2. If you are not familiar with the operation of the machine, obtain assistance from a qualified person.
3. Always wear approved, safety protective eye wear and hearing protection when operating this machine.
4. Always wear a dust mask and use adequate dust collection and proper ventilation.
5. Adjust the upper guides about 1/8" to 1/4" above the material being cut.
6. Check for proper blade size and type for the thickness and type of material being cut.
7. Make sure that the blade tension and blade tracking are properly adjusted.
8. Always keep hands and fingers away from the blade.
9. Make "relief" cuts before cutting curves to eliminate blade binding.
10. Always hold material firmly, resting flat on the table and feed it into the blade at a moderate speed.
11. Never attempt to saw stock that does not have a flat surface, unless a suitable support is used.
12. When cutting small work pieces, always use a push stick, holding jig or other device to keep your hands safely away from the blade. Use 'Zero Clearance Inserts' to prevent small pieces from becoming jammed in the table insert or lower blade guides.
13. Always allow the bandsaw blade to stop before removing scrap pieces from the table.
14. Do not remove jammed pieces from the saw until the machine and blade has stopped. Unplug the bandsaw from the power source, and then remove the jammed work piece.
15. Always turn off the machine if the material is to be backed out of an uncompleted cut.
16. Use extra supports (roller stands, saw horses, tables etc.) for any work pieces large enough to tip when not held down to the table top surface.
17. Always turn off and unplug the machine when changing blades or servicing the machine.
18. Release blade tension when the saw will not be used for a long period of time.
19. Remove material or debris from the work area. Keep work area neat and clean.

SAVE THESE INSTRUCTIONS.

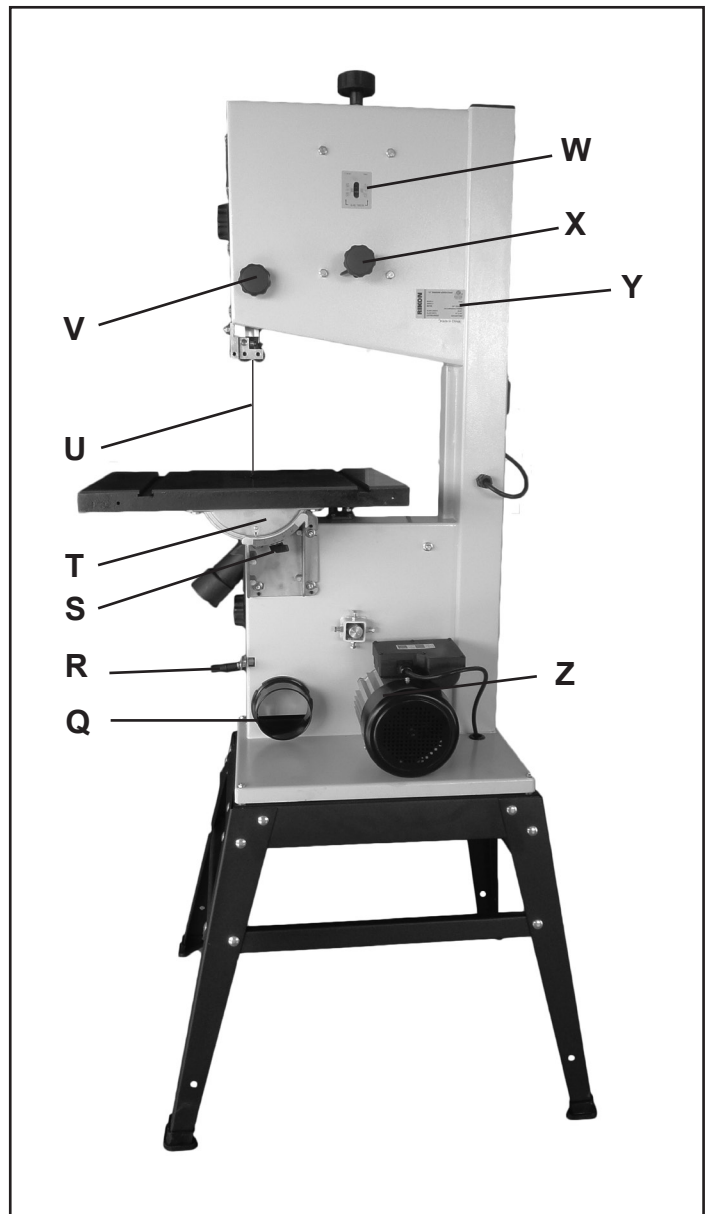
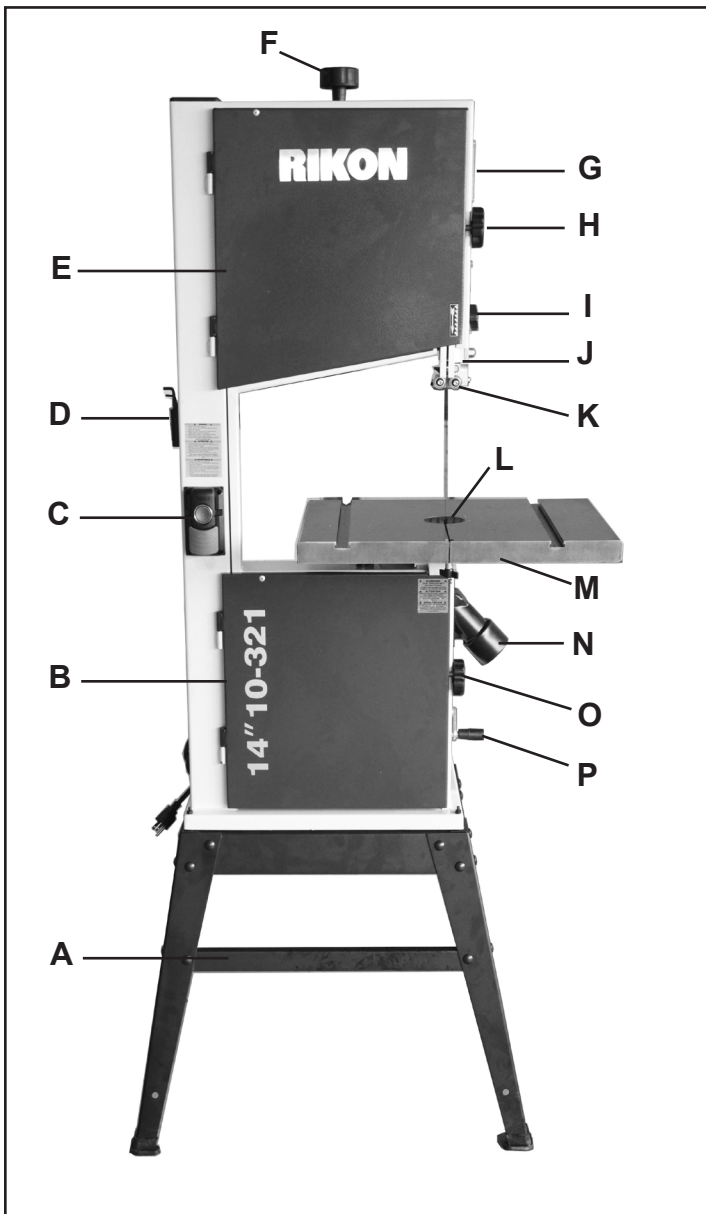
Refer to them often.



Warning: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood

This owner's manual is not a teaching aid. Use of this owner's manual is intended to show assembly, adjustments, and general use.

GETTING TO KNOW YOUR MACHINE



- A. Open stand
- B. Lower Bandwheel Door
- C. ON / OFF Switch
- D. Tool Holder
- E. Upper Bandwheel Door
- F. Blade Tension Knob
- G. Blade Tracking Window
- H. Upper Door Locking Knob
- I. Guide Post Lock Knob
- J. Upper Guide Post
- K. Upper Blade Guides
- L. Table Insert
- M. Table with Miter Gauge T-Slots

- N. Dust Port 2-1/2"
- O. Lower Door Locking Knob
- P. Drive Belt Tension Hand Wheel
- Q. Dust Port 4"
- R. Drive Belt Tension Hand Wheel
- S. Table Locking Knob
- T. Trunnion with Angle Scale
- U. Bandsaw Blade
- V. Guide Post Lock Knob
- W. Blade Tension Scale
- X. Blade Tracking Handle & Lock Lever
- Y. Product Identification Label
- Z. Motor 1HP

CONTENTS OF PACKAGE

Model 10-321 14" Bandsaw is shipped complete in one box.

Unpacking, Checking Contents & Clean-up

1. Carefully remove all contents from the shipping carton. Compare the contents with the list of contents to make sure that all of the items are accounted for, before discarding any packing material. Place parts on a protected surface for easy identification and assembly. If any parts are missing or broken, please call RIKON Customer Service (877- 884-5167) or email parts@rikontools.com as soon as possible for replacements. **DO NOT** turn your machine **ON** if any of these items are missing. You may cause injury to yourself or damage to the machine.
 2. Report any shipping damage to your local distributor. Take photographs for any possible insurance claims.
 3. With the help of another person, carefully lift the Bandsaw from the packaging and place it on a level floor.
 4. Clean all rust protected surfaces with ordinary house hold type grease or spot remover. Do not use; gasoline, paint thinner, mineral spirits, etc. These may damage painted surfaces.
 5. Apply a coat of paste wax to the table to prevent rust. Wipe all parts thoroughly with a clean dry cloth. Be careful, as the pre-installed bandsaw blade has sharp teeth and may cause injury if touched.
 6. Set packing material and shipping carton aside. Do not discard until the machine has been set up and is running properly.
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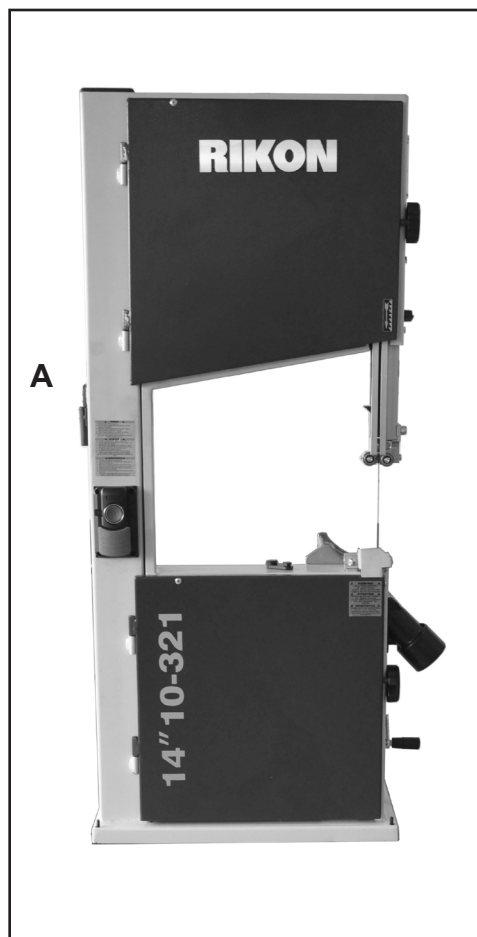
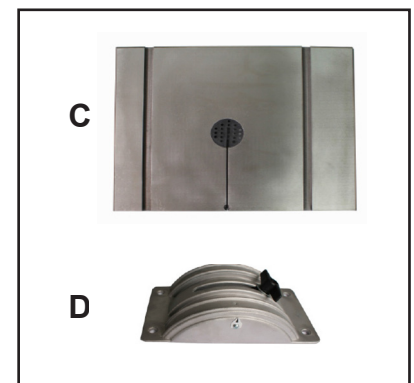
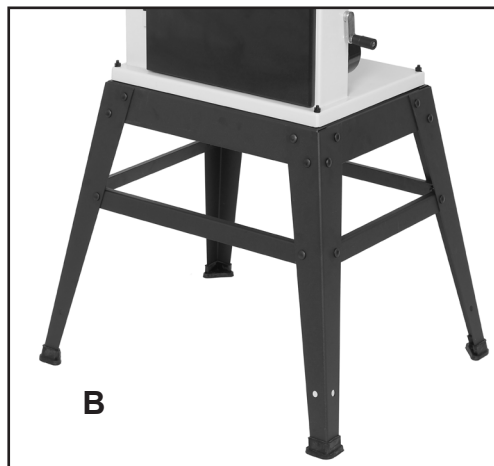


TABLE OF LOOSE PARTS

- A. Bandsaw Frame Assembly
- B. Stand Assembly - see page 10 for Parts List
- C. Table
- D. Upper Table Trunnion Assembly



CONTINUED ON PAGE 9

CONTENTS OF PACKAGE

TABLE OF LOOSE PARTS continued

Item	Description	Qty.	Item	Description	Qty.
	2-1/2" Dust Port.....	1		Tool Holder.....	1
	Hex Socket head cap screw M6x12.....	2		Pan Head Screw M5x10.....	2
	Washer 6.....	2		M3 Hex "L" Wrench.....	1
	Blade Tension Knob.....	1		M4 Hex "L" Wrench.....	1
	Crank Handle.....	1		M5 Hex "L" Wrench.....	1
	Washer M6.....	2		Hex Bolt, Washer, Nut assembly M8.....	24
	Hex Nut M6.....	2		Hex Bolt, Washer, Nut assembly M6.....	4
	Hex Bolt M8x45.....	1		Rubber foot.....	4
	Hex Nut M8.....	1		Hex Bolt M8x16.....	4
	Wing Nut M6.....	1		Lock washer 8.....	4
	Tube.....	1			
	Washer 6.....	1			
	Hex Socket Head Cap Screw M6x45.....	1			

INSTALLATION

MOVING & INSTALLING THE BANDSAW

CAUTION The bandsaw is heavy - over 160 lbs! It is best to assemble the machine near the area where it will eventually reside. When moving or positioning an assembled bandsaw, DO NOT use the table or upper blade guard assemblies as this may damage the machine. Move the bandsaw by grasping the support column and lower frame which are all welded together for rigidity. The bandsaw can also be moved by laying it down on the back/left side of the column so that the table assembly is not compromised.

1. Carefully remove the machine from the shipping carton. See above instructions on handling the saw.

2. Position the machine on a solid, level foundation that is located in an area that has ample space in front, right side and in back of the bandsaw for cutting large or long material.

For best power and safety, the bandsaw should be plugged directly into a dedicated grounded electrical outlet that is within the supplied cord length of the machine. The use of an extension cord is not recommended.

3. Align the machine so that during use, the material being cut will not face aisles, doorways, or other work areas that bystanders may be in. Do not locate or use the machine in damp or wet conditions.

4. Once in place in your shop, level the machine with spacers, and secure it to the floor with lag screws (not supplied) using the 4 holes in the stand legs.

STAND ASSEMBLY

A. Open Stand Assembly

- Check contents against the parts list.

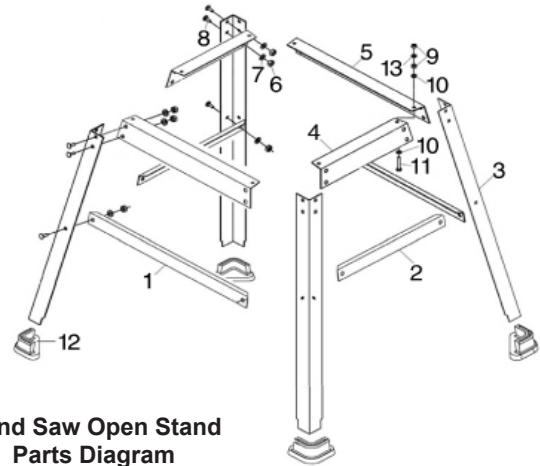
Hint: All front and side panels assemble behind (inside) leg pieces.

- Fasten front panel on to paired legs, using hex carriage bolts, washers and hex nuts. Do not fully tighten.
- Fasten side panel on to front panel and paired leg assemblies using remaining hex carriage bolts, washers and hex nuts.
- Fasten the front and side beams on the paired legs with hex carriage bolts, washers and hex nuts.
- Set stand in an upright position, ensuring that the holes on the top edge of the panels line up sufficiently to allow hex head screws to pass through. Fully Tighten the hex carriage bolts and hex nuts.
- Press rubber feet onto the end of stand legs.
- With the aid of an assistant, lift band saw and carefully position in place on top of stand.
- Install base to stand using hex head screw (11) and washer (10) through stand and saw base, then washer (10) and hex nut (9) on top of saw base. Repeat procedure for all four corners before tightening fully.

WARNING: To Avoid back injury, get help lifting the band saw. Bend your knees, and lift with your legs, not your back.

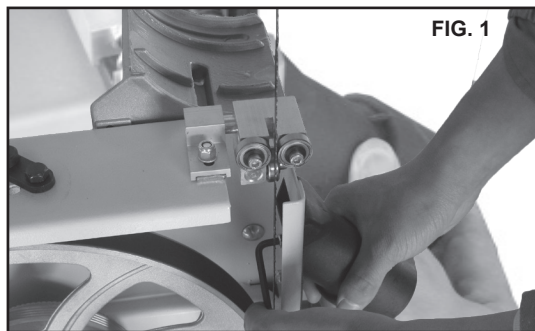
Parts List

Item No.	Description	Qty
1	Front beam	2
2	Side beam	2
3	Legs	4
4	Side panel	2
5	Front panel	2
6	Hex nut	24
7	Washer	24
8	Hex carriage bolt	24
9	Hex nut	8
10	Washer	8
11	Hex head screw	4
12	Rubber foot	4
13	Washer	4

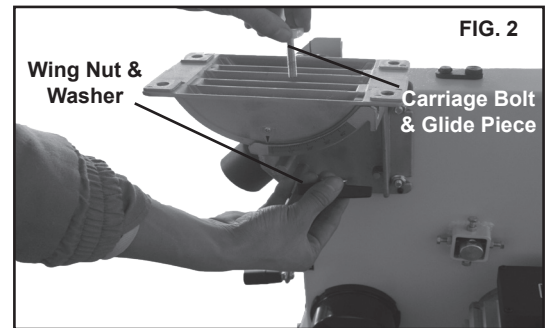


B. Assemble the 2-1/2" dust port to the band saw frame with Hex socket head cap screw and washer. Place the 2-1/2" dust port onto the side of the band saw frame.

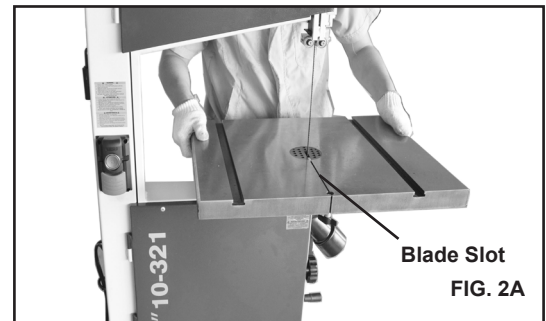
Locate two Hex socket head cap screws and two washers from the bag of loose parts. Mount the dust port to the band saw frame and install a Hex socket head cap screw with washer in each hole, then tighten with M5 Hex "L" wrench. (See FIG. 1)



C. Assemble the upper table trunnion to the lower table trunnion with Carriage Bolt, Glide Piece, Washer and Wing Nut (See FIG. 2).

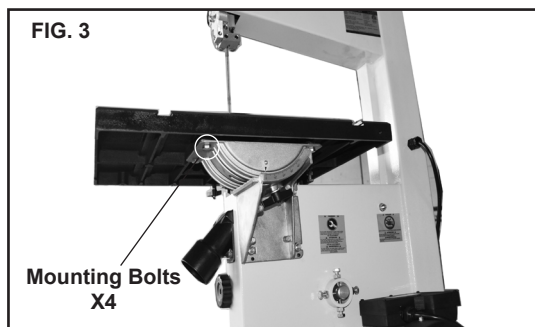


D. Place the table onto the upper table trunnion. Carefully feed the blade through the slot of the table. (See FIG. 2A)

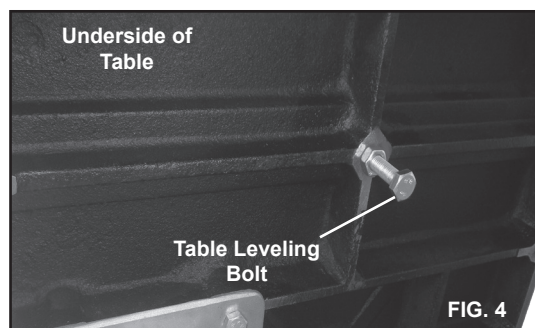


ASSEMBLY

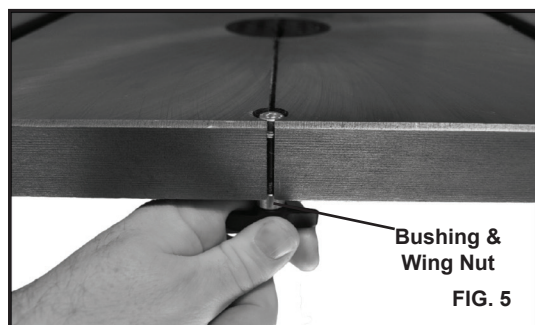
E. Locate four hex bolts and four lock washers from the bag of loose parts used to mount the table. Mount the table to the upper table trunnion and install a bolt with washer in each hole, then tighten with a 13mm wrench. (See FIG. 3)



F. Next locate one Hex Bolt M8x45 and one Hex Nut M8. Install under the table as shown. This assembly is used to level the table. (See FIG. 4)



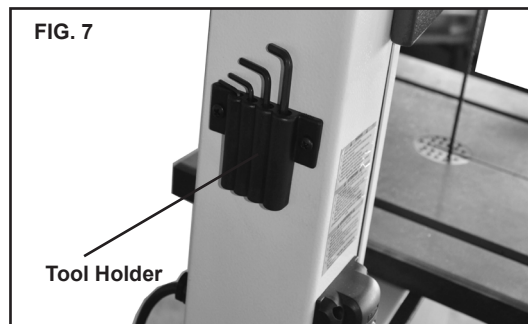
G. Use the hex socket head cap screw, washer, bushing and wing nut for correcting the working table flatness. (See FIG. 5)



H. Attach the crank handle to the belt tension crank arm with the M6 Hex nut provided. (See FIG. 6)



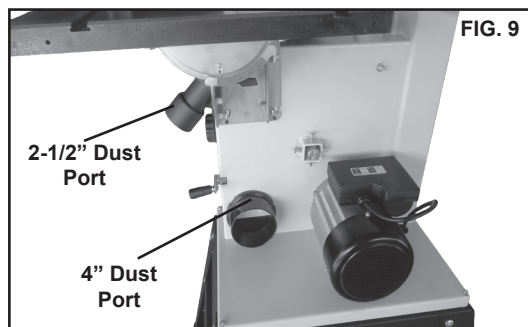
I. Assemble the tool holder to the column of the band saw with two pan head screws. Locate two pan head screws from the bag of loose parts. Mount the tool holder to the column and install a pan head screw in each hole, then tighten with Phillips screwdriver. (See FIG. 7)



J. Place the blade tension knob onto the blade tension assembly. (See FIG. 8)



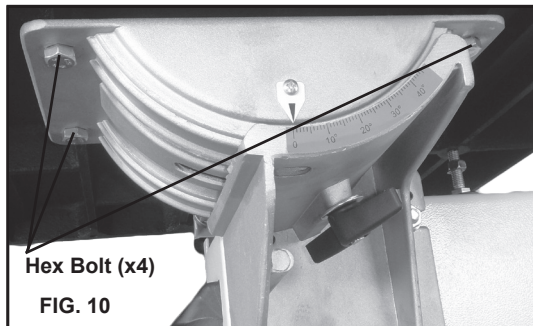
K. The band saw has a 2-1/2" dust port and 4" dust port included for connection to standard width shop vacuum hoses. (See Fig. 9) It is recommended that when in use, the band saw is connected to a suitable dust collector.



ADJUSTMENTS

1. CENTERING THE TABLE

A. Loosen the four Hex bolts mounting the table to the upper table trunnion. (See FIG. 10)



B. Move the table sideways as required, until the saw blade runs through the center of the table insert.

C. If the adjustment of "B" is not enough to center the table, loosen the four flange nuts holding the lower table trunnion and move the table sideways to place the table in the center.

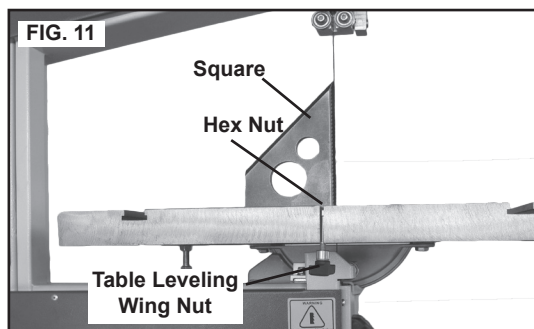
D. Re-tighten Hex bolts for trunnion; recheck the saw blade position.

2. SETTING TABLE SQUARE TO SAW BLADE ON RIGHT AND LEFT POSITION

Loosen the wing nut on the lower table trunnion and place a suitably sized square against the saw blade on right and left position. If the table requires adjustment, proceed as follows:

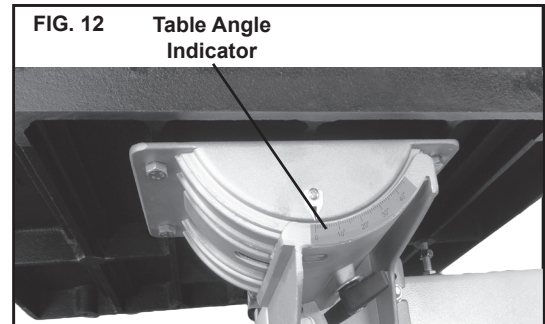
A. Using a wrench, release the Hex nut under the table. (See FIG. 11)

B. Place the wrench on the Hex bolt and adjust until the table is square to the saw blade. (See FIG. 11)



C. Tighten the Hex nut and check the saw blade and the table for square.

D. Lock the table into position and check that the indicator reads zero degrees on the side of lower table trunnion. Loosen the screw securing the indicator and reset if necessary to give zero degree reading. (See FIG. 12)

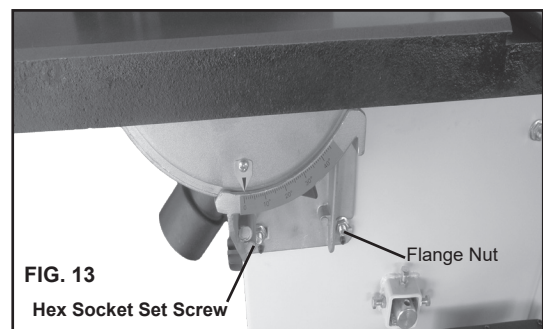


3. SETTING TABLE SQUARE BACK OF BLADE

Place a square against the back (non-tooth) side of the saw blade. If you find that the table runs up hill or down hill as you feed the work piece, proceed as follows:

A. Using a wrench, release the flange nut on the lower table trunnion. (See FIG. 13)

B. Place the M5 Hex "L" wrench on the Hex socket set screw and adjust until the table is square to the saw blade on the back (non-tooth) side of the saw blade.



C. Tighten the flange nut and recheck the saw blade and the table for square.

4. TILTING THE TABLE

For bevel cuts, the table tilts 0 through 45 degrees.

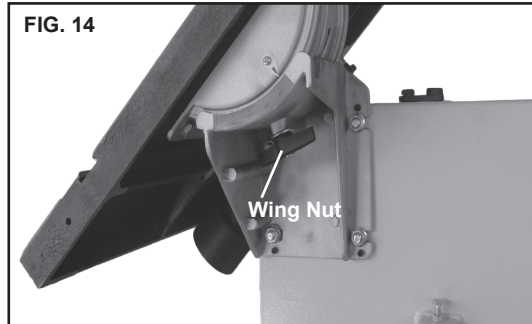
A. To tilt the table, loosen the wing nut on the table trunnion, set the table to the required angle and tighten the wing nut. (See FIG. 14, page 13)

CONTINUED ON PAGE 13

ADJUSTMENTS

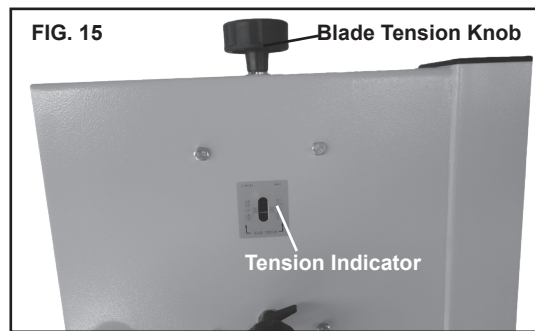
4. TILTING THE TABLE CONTINUED FROM PAGE 12

B. It is recommended to verify the correct angle setting using an angle guide, or by making trial cuts in scrap wood. Adjust the indicator accordingly by using a phillips head screwdriver.



5. ADJUSTING THE BLADE TENSION

To loosen the tension of the blade, turn the blade tension knob counterclockwise and the tension indicator will lower. To tighten the tension of the blade, turn the tension knob clockwise, and the tension indicator will rise. (See FIG. 15)



6. CHANGING AND ADJUSTING THE SAW BLADE

This band saw is factory-equipped with a general-purpose wood cutting blade, the saw blade is set prior to delivery.

To change the saw blade; the following procedure must be followed:

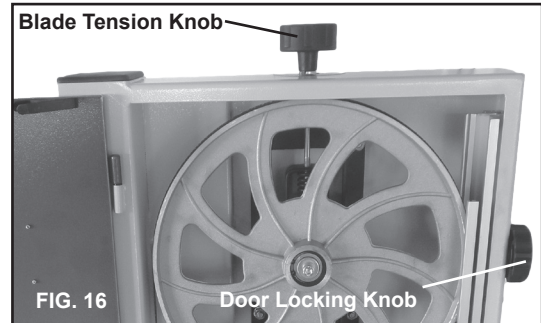
⚠ WARNING: To avoid injury from unexpected starting, whenever changing the saw blade or carrying out adjustments, switch the band saw off and remove the power cord from the power outlet. To avoid injury to hands when handling the saw blade, wear gloves whenever necessary.

A. Open the upper and lower doors by turning the door locking knobs.

B. Loosen the blade tension by turning the blade tension knob on the top of the upper wheel housing counterclockwise until the saw blade has slackened (viewed from above) (See FIG. 16).

C. Remove the saw blade from the upper and lower wheels.

D. When installing the new saw blade ensure the blade teeth are pointing downwards and towards you at the position where the saw blade passes through the table.



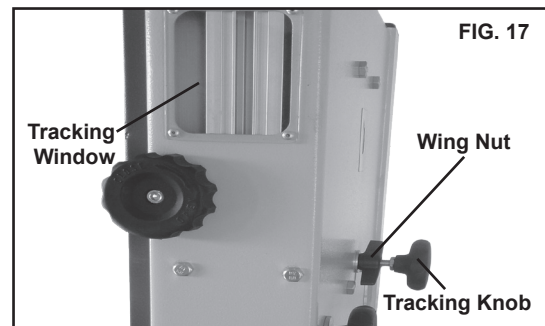
E. Re-tension the new saw blade and check the saw blade tracking by turning the upper wheel by hand. The saw blade should run in the center of the band saw wheels.

F. If needed adjust the tracking of the saw blade; proceed as mentioned below "TRACKING THE BAND SAW BLADE"

G. Close the upper and lower doors by turning the door locking knobs before reconnecting the power supply.

7. TRACKING THE BAND SAW BLADE

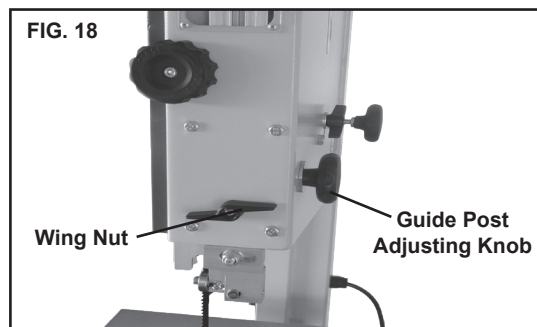
Set the tracking of the saw blade before setting the blade guides. Once the saw blade is installed and tensioned, track the saw blade by adjusting the tracking knob by hand (See FIG. 17). The saw blade should run in the center of the band saw wheels. Use the blade tracking window to check position on wheel. When the correct adjustment is achieved lock the tracking knob with the wing nut.



ADJUSTMENTS

8. SETTING THE CUTTING HEIGHT

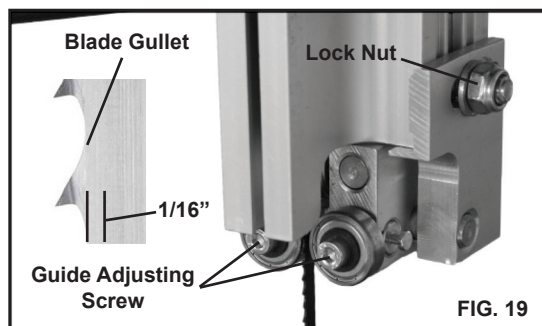
- A.** The upper blade guide should be set as close as practical against the work piece.
- B.** To adjust this height, loosen the wing nut at the side of the upper wheel housing. (See FIG. 18)
- C.** Set the blade guide to the required height by turning the guide post adjusting knob.
- D.** Tighten the wing nut after setting proper height.



9. ADJUSTING THE BLADE GUIDES

The Upper Blade Guide

- A.** To adjust the upper blade guides, first position the right and left roller guides relative to the blade by loosening the lock nut (FIG. 19) and moving the guide carrier until both roller guides are approximately 1/16" behind the gullets of the saw blade.
- B.** Set both roller guides to within 1/32" of the saw blade by releasing the guide adjusting screw (FIG. 19) on each side of the saw blade and moving the guides to desired position. Lock the roller guide in position with the guide adjusting screw. Do not set the roller guides too close as this will adversely affect the life of the saw blade.



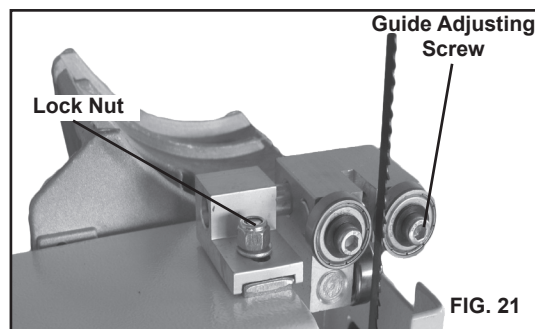
- C.** Adjust the rear roller guide to be just clear of the back of the saw blade by releasing the guide adjusting screw FIG. 20 and moving the guide to approximately 1/32" behind the blade.

- D.** When the correct adjustment is reached, lock the roller guide in position with the guide adjusting screw FIG. 20.



The Lower Blade Guide

- A.** To adjust the lower blade guides, first position the right and left roller guides relative to the blade by loosening the lock nut (FIG. 21) and moving the guide carrier until both roller guides are approximately 1/16" behind the gullets (See Inset, FIG. 19) of the saw blade.
- B.** Set both roller guides to within 1/32" of the saw blade by releasing the guide adjusting screw (FIG. 21) and moving the guide to desired position. Lock the roller guide in position with the guide adjusting screw. Do not set the roller guides too close as this will adversely affect the life of the saw blade.
- C.** Adjust the rear roller guide to be just clear of the back of the saw blade by unlocking the guide adjusting screw (FIG. 21) and moving the guide to approximately 1/32" behind the blade.
- D.** When the correct adjustment is reached, lock the roller guides in position with the guide adjusting screws.



ADJUSTMENTS

10. CHANGING THE BLADE SPEED

⚠ WARNING: Before changing the speed always make sure the machine has been unplugged from the electrical supply.

This band saw has two blade speeds:

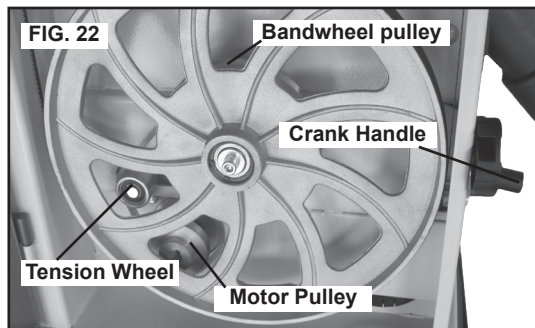
A. 1620 feet/min low speed setting is best for cutting extra hard material - plastics, and non-ferrous metals. The correct blade type is necessary for clean, effective cutting action in these materials.

B. 3340 feet/min high speed setting is the standard for all around sawing needs of woods and composites.

The lower bandwheel has two, integral, multi-vee form pulleys and the motor shaft has a twin multi-vee form pulley.

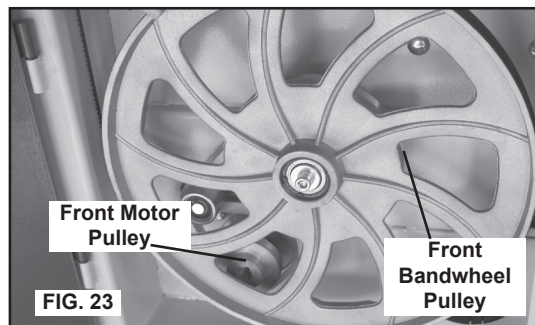
The drive belt passes around the bandwheel pulley, the motor pulley and the tension wheel. The belt tension is released and applied by using the crank handle (See FIG. 22). This moves the tension wheel and allows the speed to be changed.

(See DRIVE BELT POSITIONS HIGH/LOW SPEED below)



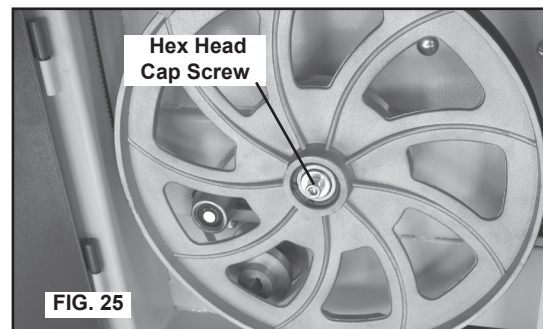
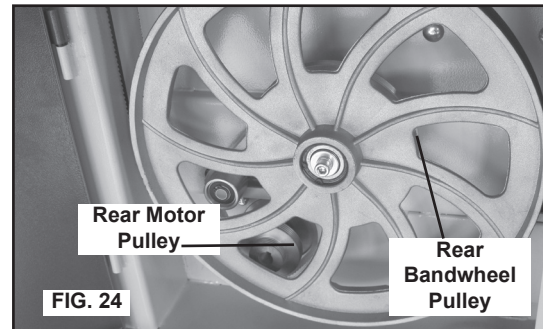
11. DRIVE BELT POSITIONS HIGH/LOW SPEED

A. For the low speed 1620 ft/min, fit the belt to the front pulley on both the motor and bandwheel. (See FIG. 23)



B. For the high speed 3340 ft/min, the belt should be fitted to the rear pulley on both the motor and bandwheel. (See FIG. 24)

Note: The rear bandwheel pulley is hidden from view.



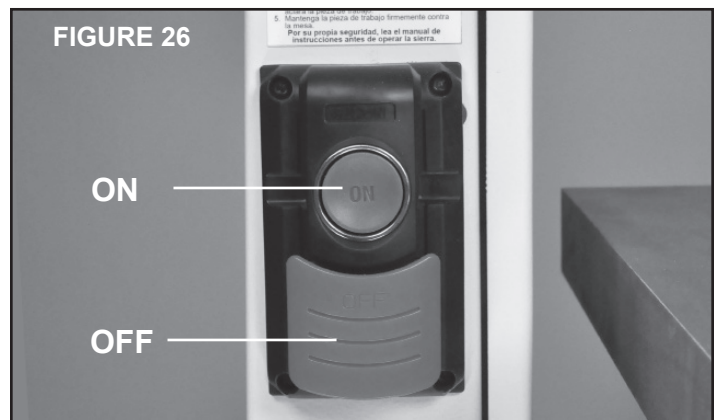
OPERATION

ON/OFF SWITCH

To operate the saw, Press the top, round 'ON' button in to its full depth to turn the saw on. There should be a 'click' to indicate the 'ON' contact is made.

Once work is finished, hit the bottom red safety paddle switch to turn the saw 'OFF'. Fig. 26.

If the saw is not to be used for an extended length of time, unplug the saw from the power supply and release the tension on the blade.



OPERATION

The saw blade cuts on a continuous downstroke. To avoid injury when hands are unavoidably near to the saw blade, they should be placed on either side of the blade (See FIG. 27), not in line with it (See FIG. 28). Use a push stick whenever possible when working in close proximity to the saw blade.

Start the band saw by pressing the blue ON button (See FIG. 26) and wait for the band saw to come to full speed before starting to cut. Never start the band saw with the work piece in contact with the saw blade.

Slowly feed the work piece towards the saw blade, putting only light pressure on it. With both hands, firmly hold the work piece down on the table, and feed it towards the saw blade slowly.

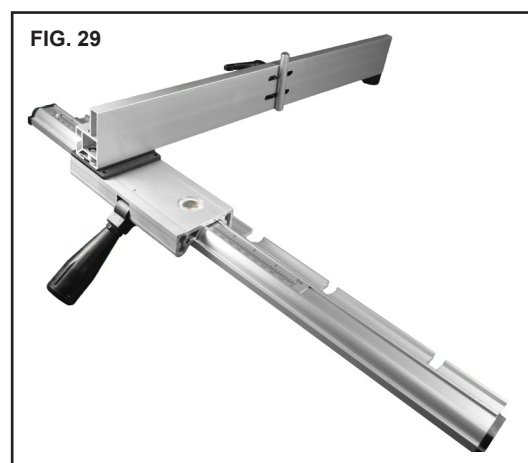
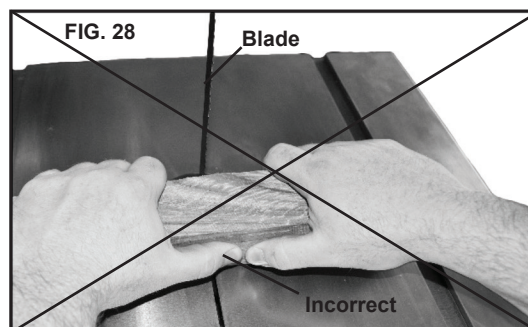
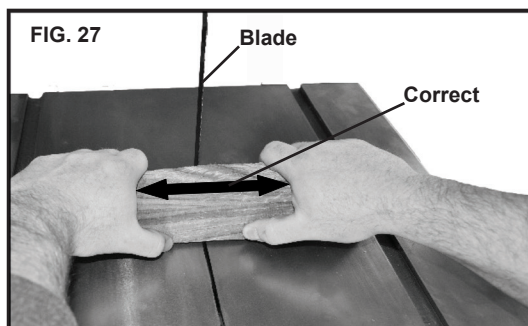
Once the cutting operation is complete turn the band saw off by pressing the red safety paddle switch.

For best results the saw blade must be sharp. Select the right saw blade for the job, depending on the thickness of the wood the cut to be made. The thinner and harder the wood, the finer the teeth (14 teeth per inch) of the saw blade. Use a fine tooth blade for cutting sharp curves. For thick wood cutting use less teeth, approximately 4 teeth per inch.

The machine is especially suited for cutting curves, but will also make straight cuts. Do not attempt to turn the work piece without pushing it, as this may cause the work piece to get stuck, or the saw blade to bend.

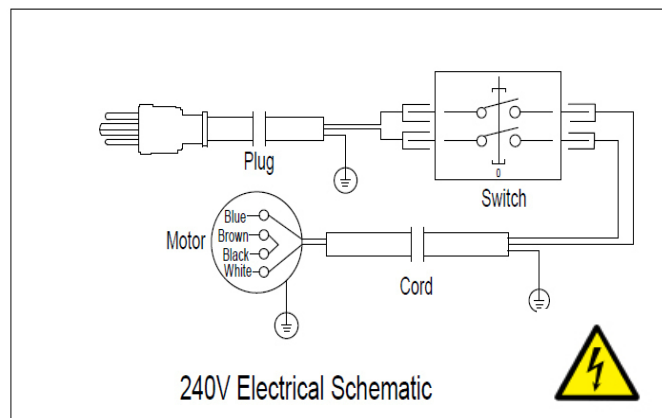
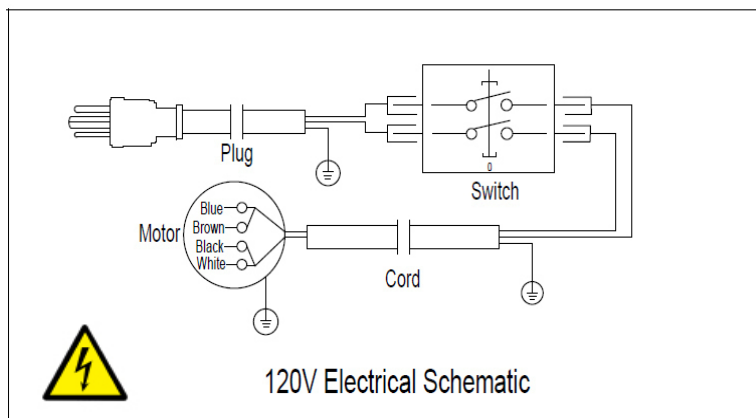
An accessory rip fence (Fig. 29) (Model 13-900) is used to ensure safe and accurate straight cuts of the work piece, usually in the same direction as the grain of the timber. Please see separate instructions provided in the accessory rip fence package.

WARNING: When sawing with the rip fence and a tilted table, the rip fence must be installed on that side of the table which is tilted downward.



ELECTRICAL SCHEMATIC

WARNING: This machine must be grounded. To avoid electrocution or fire, any repairs to electrical system should be done only by a qualified electrician, using genuine replacement parts.



MAINTENANCE

⚠ WARNING: To avoid injury due to unexpected starting, before cleaning or carrying out maintenance work, switch off and disconnect the band saw from the power source.

Never use water or other liquids to clean the band saw. Use a dry brush.

Regular maintenance of the band saw will prevent unnecessary problems.

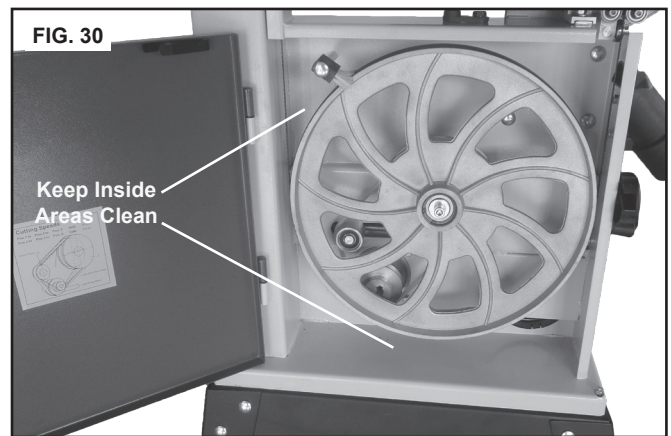
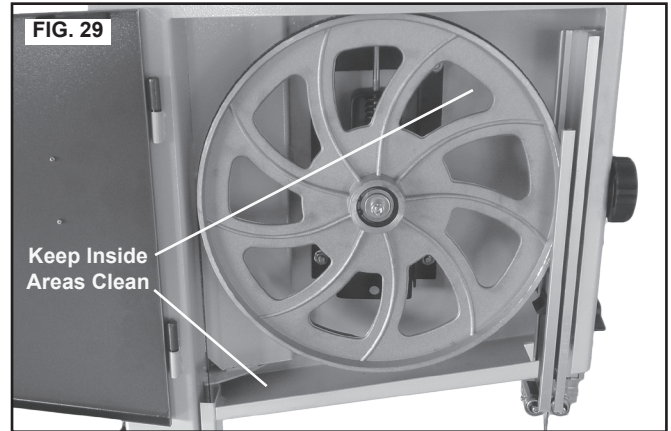
A. Keep the table clean to ensure accurate cutting.

B. Keep the outside of the machine clean to ensure accurate operation of all moving parts and prevent excessive wear.

C. Keep the ventilation slots of the motor clean to prevent it from overheating.

D. Keep the inside (near the saw blade, etc.) clean to prevent accumulation of dust (See FIG. 29 & 30). Use dust collection if possible.

E. To prolong the life of the saw blade, when the band saw is not in use for extended periods, release the saw blade tension. Before reusing the band saw ensure that the blade is re-tensioned and tracking is checked.



TROUBLESHOOTING

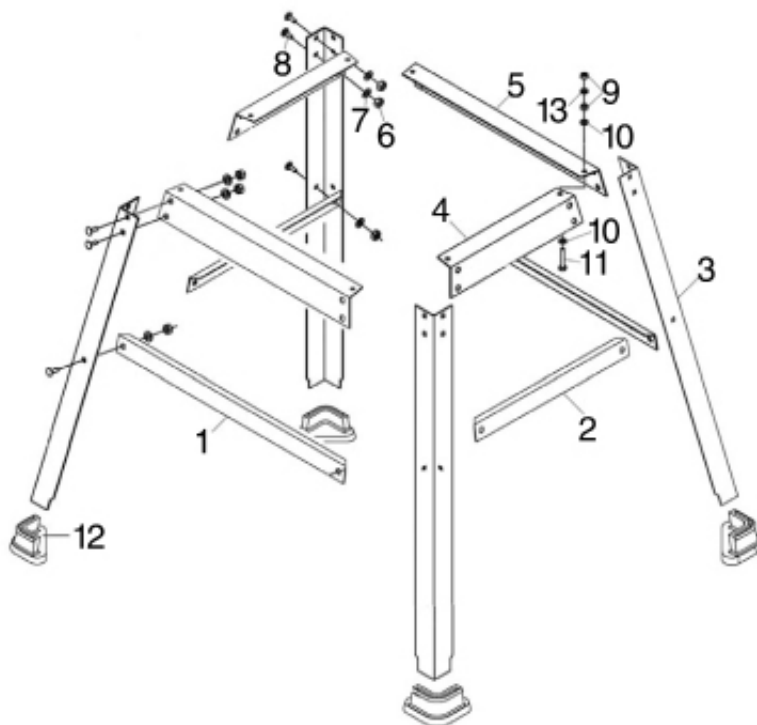
Problem	Diagnosis	Remedy
The machine does not work when switched on.	1. No power supply. 2. Defective switch. 3. Defective motor.	1. Check the cable for breakage. 2. Replace the lock switch. 3. Defective motor.
The saw blade does not move with the motor running.	1. The blade tension knob has not been tightened. 2. The blade has come off one of the wheels. 3. The saw blade has broken. 4. The drive belt has snapped.	1. Switch off the motor, tighten the blade tension knob. 2. Open the doors and check. 3. Replace the blade. 4. Replace the belt.
The saw blade does not cut in a straight line.	1. Rip fence for cutting not used. 2. Feed rate too fast. 3. The blade teeth are dull or damaged. 4. Blade guides not suitably adjusted.	1. Use a rip fence. 2. Put light pressure on the work piece. Make sure the saw blade does not bend. 3. Try a new saw blade. 4. Adjust the blade guides (see ADJUSTMENT instructions on page 14).
The saw blade does not cut, or cuts very slowly.	1. The teeth are dull, caused by cutting hard material or long use. 2. The saw blade was fitted the wrong way on the band saw.	1. Replace the saw blade, use a 6 T.P.I. (Teeth Per Inch) saw blade for wood and soft material. Use a 14 T.P.I. saw blade for harder materials. A 14 T.P.I. saw blade always cuts slower due to the finer teeth and the slower cutting performance. 2. Fit the saw blade correctly.

NOTES

Use this section to record maintenance, service and any calls to Technical Support:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

PARTS DIAGRAM A

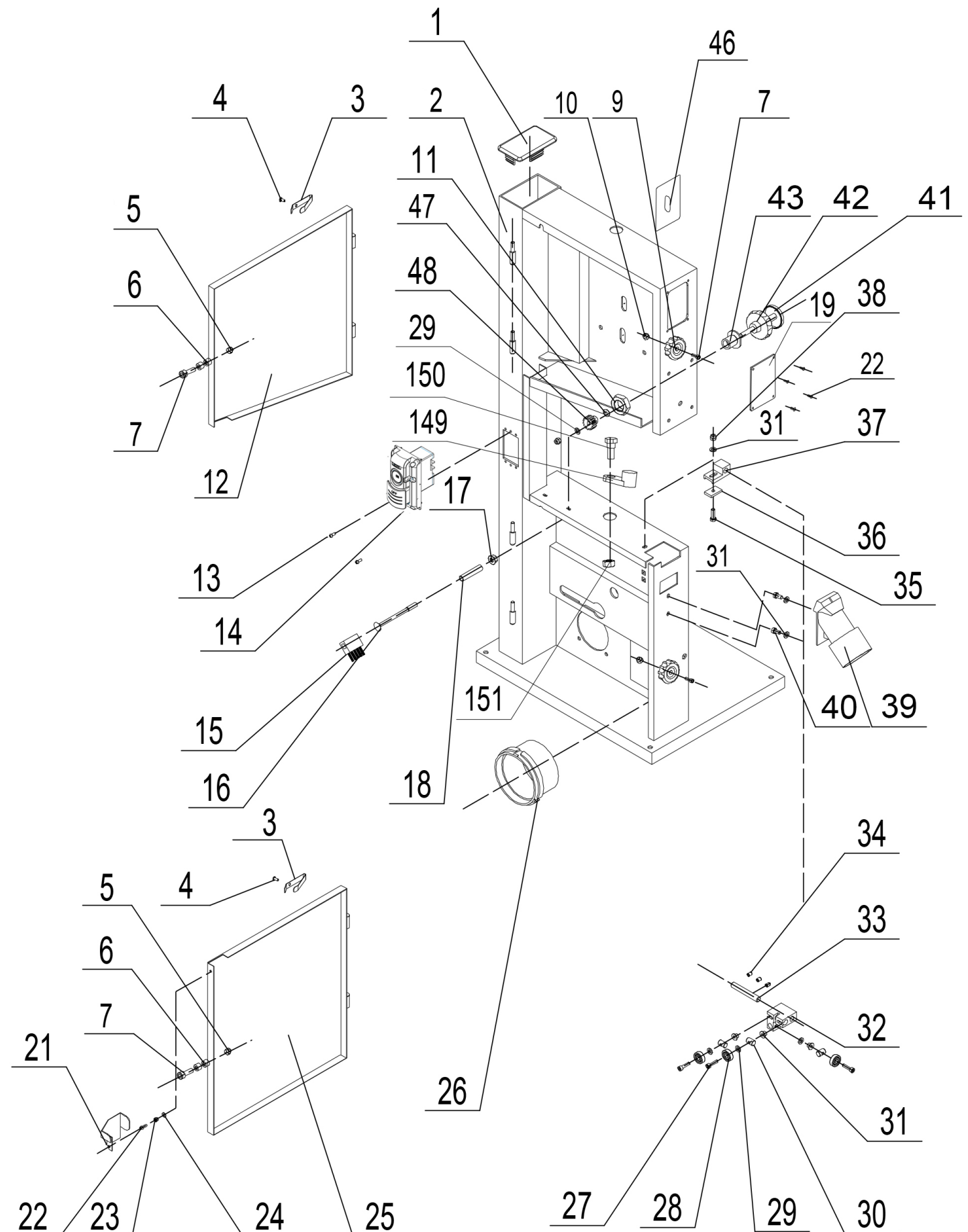


PARTS LIST A

KEY NO.	MFG. PART NO.	DESCRIPTION
1S	1-JL21050004-001Z	Front beam
2S	1-JL21050005-001Z	Side beam
3S	1-JL21050001-001Z	Leg
4S	1-JL21050003-001Z	Side panel
5S	1-JL21050002-001Z	Front panel
6S	1-NUT5/16B	Hex nut
7S	1-WSH8GB97D1B	Washer
8S	1-NEC5/16X5/8B	Hex bolt
9S	1-WSH6GB96B	Washer
10S	1-NUT1/4B	Hex nut
11S	1-HEX1/4X1 1/2B	Hex bolt
12S	1-JL40060005	Rubber shoe
13S	1-WSH6GB97D1B	Washer

NOTE: Please reference the Manufacturer's Part Number when calling for Replacement Parts. For Parts under Warranty, the Serial Number of your machine is required.

PARTS DIAGRAM B

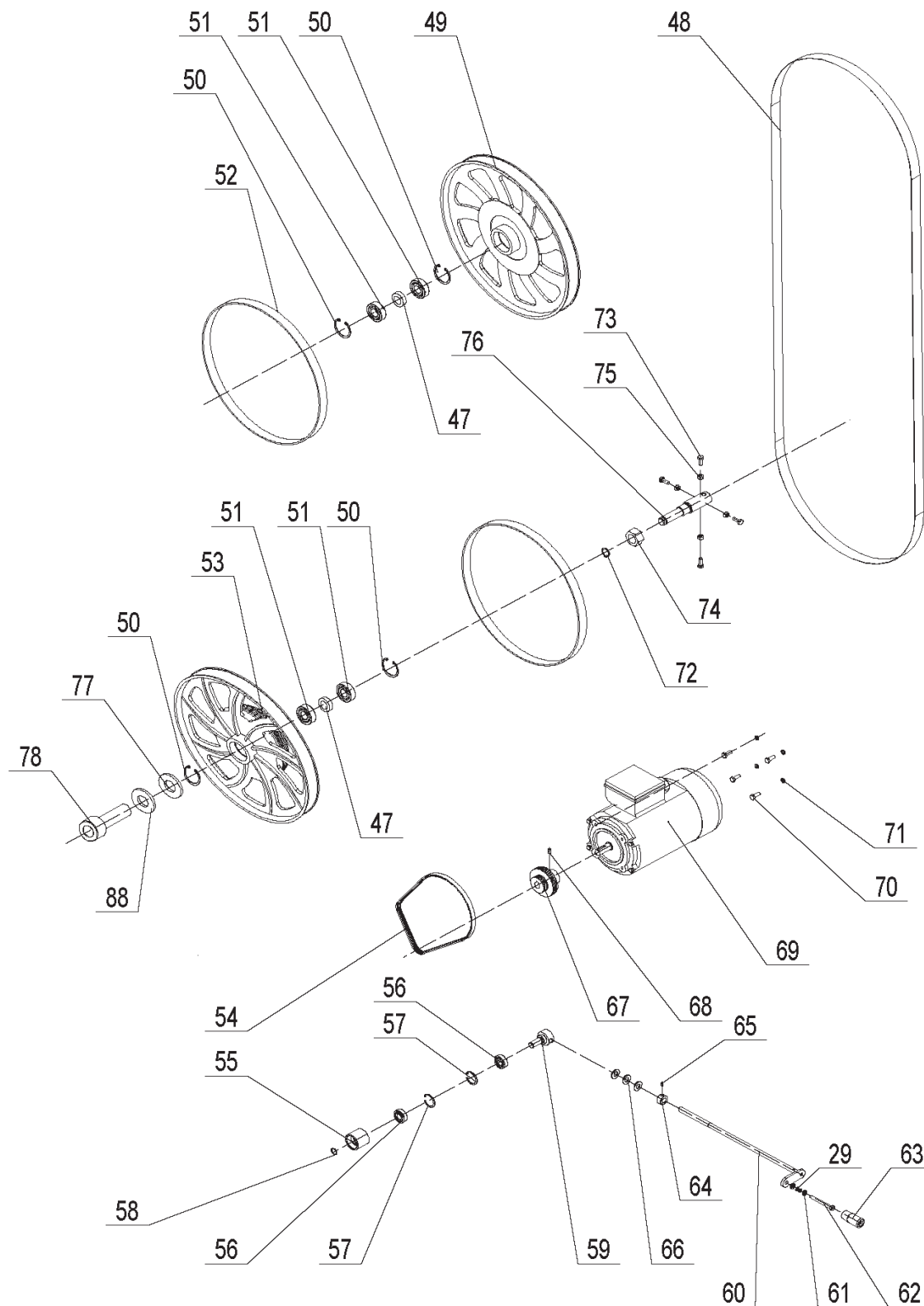


PARTS LIST B

KEY NO.	MFG. PART NO.	DESCRIPTION
1	1-JL21010001A-001S	Top plug
2	1-JL21011000R117U	Frame
3	1-JL20010008	Leaf spring
4	1-RVT4X8GB12618A	Rivet
5	1-M6GB889Z	Lock nut M6
6	1-JL26010007	Bushing
7	1-M6X25GB70Z	Hex socket screw M6X25
9	1-JL26010006-001S	Door locking knob
10	1-M6X22GB70Z	Hex Bolt M6X25
11	1-M20GB6173Z	Hex Nut M20
12	1-JL21012000H-076U	Upper door
13	1-M4X20GB818Z	Pan head screw
14	1-HY56-6	Switch
15	1-JL20010004	Brush
16	1-M8X100GB14Z	Carriage bolt M8X100
17	1-M8GB6177Z	Flange nut M8
18	1-JL20010003	Tube
19	1-JL26010001	Clear window
20	1-RVT3X7GB12618A	Rivet 3x7
21	1-JL20010006-050W	Blade Cover
22	1-M4X12GB818Z	Pan head screw
23	1-M4GB889Z	Lock nut M4
24	1-WSH4GB97D1Z	Washer
25	1-JL21013000D-076U	Lower door
26	1-JL20010007-001S	Dust port 4"
27	1-M5X20GB70Z	Guide adjusting screw
28	1-BRG6001-2RSGB276	Bearing
29	1-WSH6GB97D1Z	Washer 6
30	1-JL22042004	Bearing mount cylinder
31	1-JL20042002	Bearing bushing
32	1-JL21042001	Upper guide mount
33	1-JL22043002	Lower guide shaft
34	1-M8X8GB80B	Hex Socket set screw M6x10
35	1-M6X20GB5783Z	Hex Bolt M6x20
36	1-JL20040001	Lower guide mount seat
37	1-JL21043001	Lower guide support
38	1-M6GB889Z	Lock nut M6
39	1-JL21010019	Dust port 2-1/2"
40	1-M6X12GB70D1Z	Hex bolt
41	1-JL20024001-001S	Adjusting knob cap
42	1-JL20044001-001S	Adjusting knob body
43	1-JL20044002	Tube
44	1-SR21020003	Ruler
45	1-JL22040003	Spring washer
46	1-JL22040001	Gear
149	1-JL21010014	Block
150	1-JL26010015	Threaded rod
151	1-M8GB889Z	Nut

NOTE: Please reference the Manufacturer's Part Number when calling for Replacement Parts. For Parts under Warranty, the Serial Number of your machine is required.

PARTS DIAGRAM C

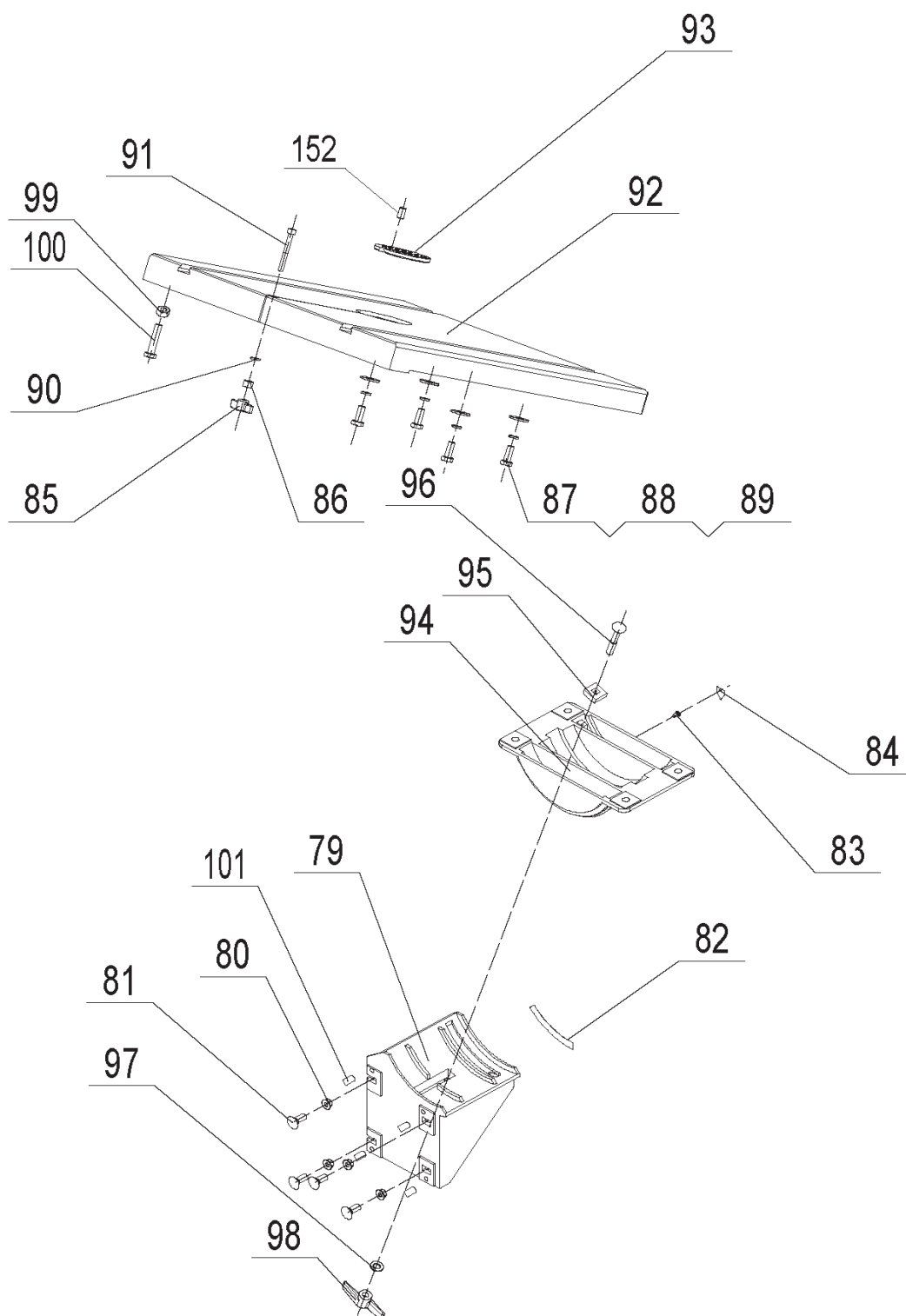


PARTS LIST C

KEY NO.	MFG. PART NO.	DESCRIPTION
47	1-JL28020004	Bushing
48	1-JL21020001K	Saw blade
49	1-JL21022001A	Upper wheel
50	1-CLP40GB893D1B	Retaining ring 40
51	1-BRG6203-2Z-P5GB276	Bearing
52	1-JL21022002A	Tire
53	1-JL21023002C	Lower wheel
54	1-JL20020002	Drive belt
55	1-JL20014002A	Tension wheel
56	1-BRG6001-2RSG276	Bearing
57	1-CLP28GB893D1B	Retaining ring 28
58	1-CLP12GB894D1B	Retaining ring 12
59	1-JL20014001	Sliding shaft
60	1-JL21015100	Belt tension crank arm
61	1-M6GB6172Z	Hex Nut M6
62	1-M6X55GB65Z	Set screw M6X55
63	1-JL20015001-001S	Crank handle
64	1-JL20010015	Set collar
65	1-M5X8GB71Z	Set screw M5x8
66	1-WSH10GB97D1Z	Washer 10
67	1-JL20070001	Motor pulley
68	1-M6X10GB80B	Hex Socket set screw M6x10
69	2-YYH806084	Motor
70	1-M6X16GB9074D15Z	Hex bolt M6X16
71	1-WSH6GB93Z	Spring washer 6
72	1-CLP17GB894D1B	Retaining ring 17
73	1-M6X20GB5783Z	Hex Bolt M6x20
74	1-JL20020004	Special Hex Nut
75	1-M6GB6170Z	Hex Nut M6
76	1-JL21020002B	Lower bearing bolt
77	1-WSH8GB96Z	Washer 8
78	1-M8X16GB70Z	Hex Socket set screw M8X16
88	1-WSH8GB93Z	Spring washer

NOTE: Please reference the Manufacturer's Part Number when calling for Replacement Parts. For Parts under Warranty, the Serial Number of your machine is required.

PARTS DIAGRAM D

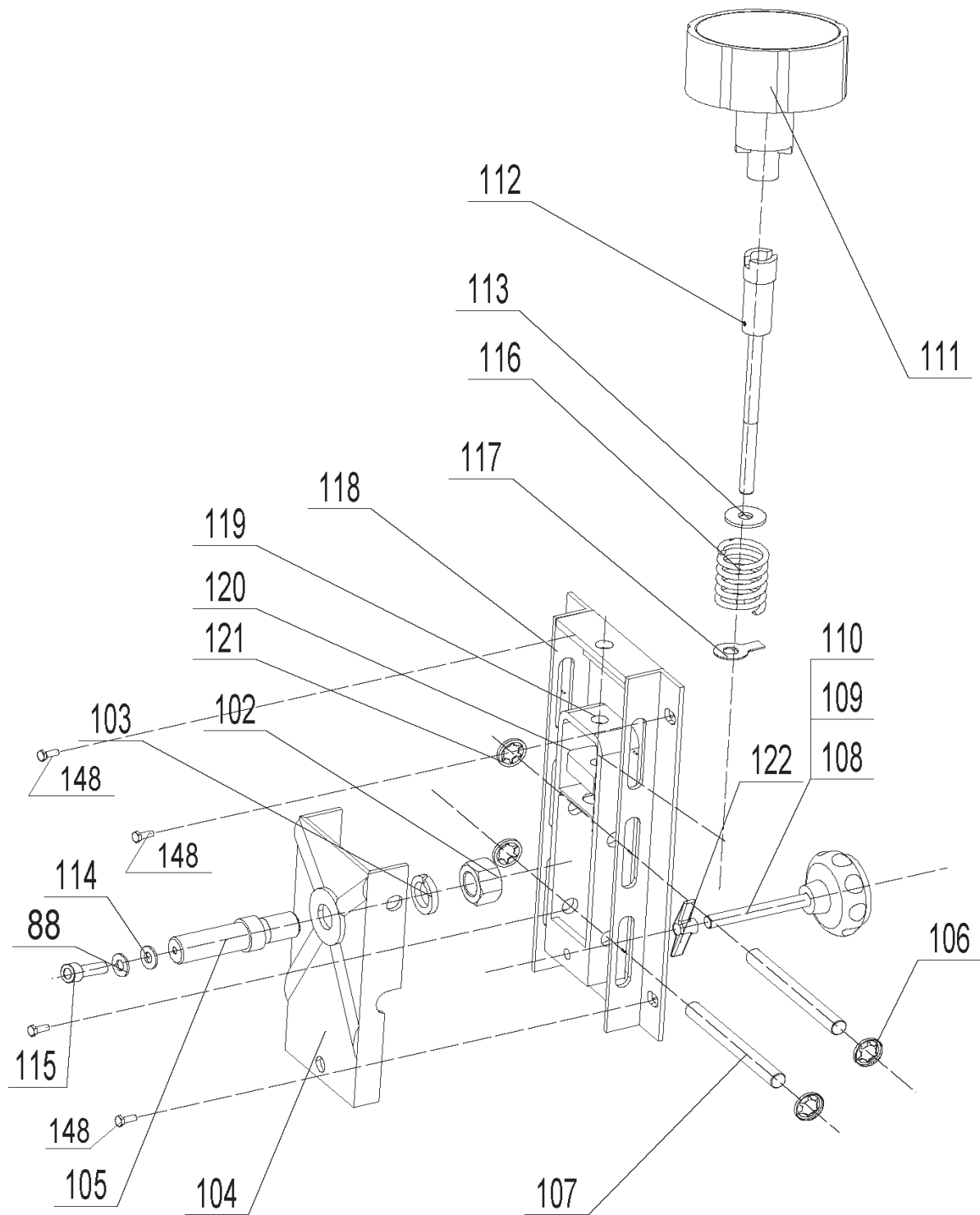


PARTS LIST D

KEY NO.	MFG. PART NO.	DESCRIPTION
79	1-JL20030001A	Lower table trunion
80	1-M8GB6177B	Flange nut M8
81	1-M8X20GB14Z	Carriage bolt M8x20
82	1-JL20030004	Turning label
83	1-ST3D5X9D5GB845Z	Tapping screw 3.5x9.5
84	1-1506003	Pointer
85	1-JL22020002-001S	Knob
86	1-JL21031003	Tube
87	1-M8X20GB5783Z	Hex bolt
88	1-WSH8GB93Z	Spring washer
89	1-WSH8GB96Z	Washer
90	1-WSH6GB97D1Z	Washer 6
91	1-M6X50GB70Z	Socket head bolt
92	1-JL21031001D001G	Table
93	1-JL20031002C-001S	Table insert
94	1-JL20032001	Upper table trunion
95	1-WSH8GB96Z	Washer 8
96	1-M8X50GB14Z	Carriage bolt M8x50
97	1-WSH8GB97D1Z	Washer 8
98	1-JL20010016-001S	Wing nut M8
99	1-M8GB6170Z	Nut
100	1-M8X40GB5783Z	Bolt
101	1-M6X10GB80B	Screw
152	1-M5X4GB80B	Screw

NOTE: Please reference the Manufacturer's Part Number when calling for Replacement Parts. For Parts under Warranty, the Serial Number of your machine is required.

PARTS DIAGRAM E

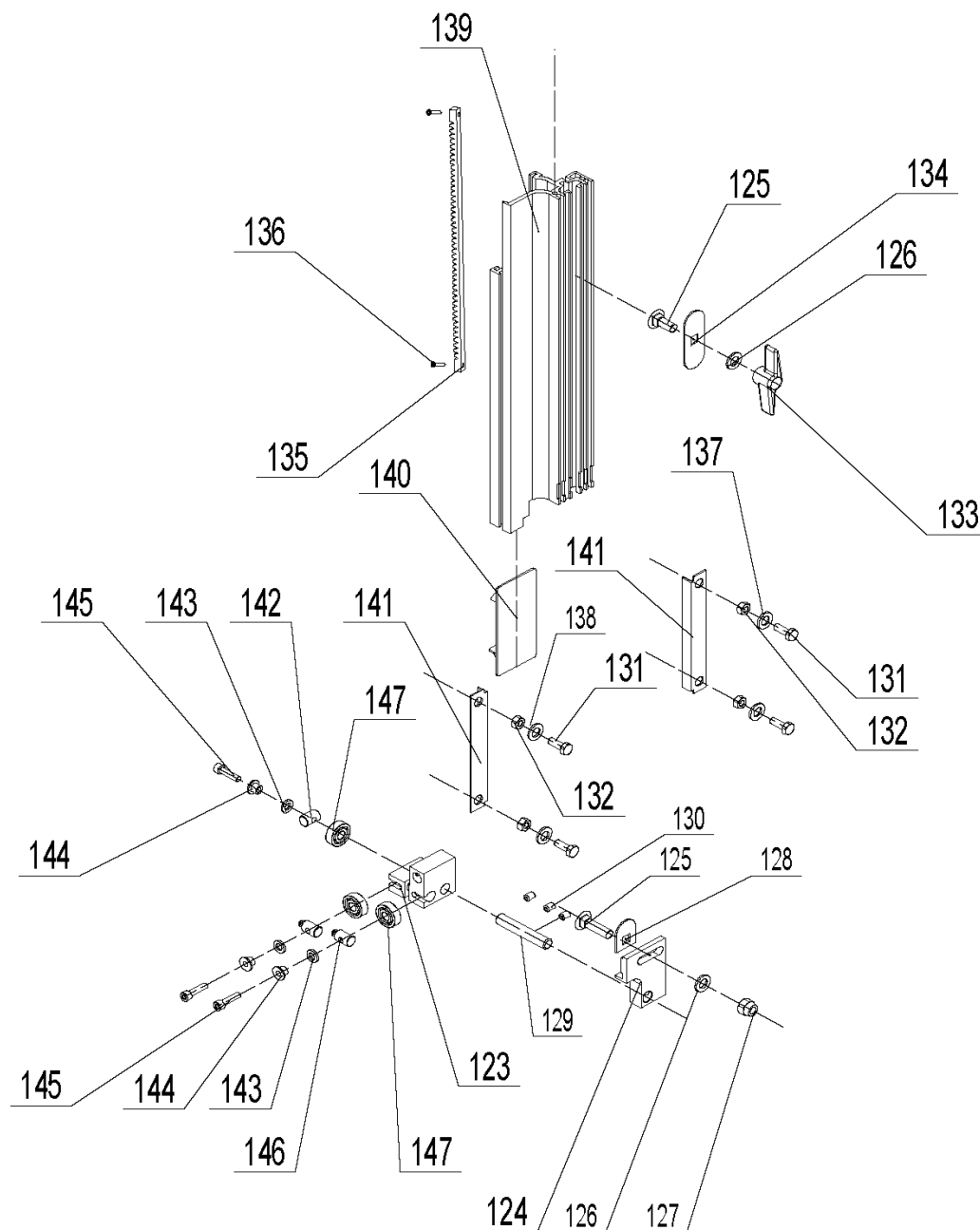


PARTS LIST E

KEY NO.	MFG. PART NO.	DESCRIPTION
88	1-WSH8GB93Z	Spring washer
102	1-M16GB6171Z	Hex Nut M16
103	1-WSH16GB93Z	Spring washer 16
104	1-JL20021005A001Z	Wheel carrier bracket
105	1-JL20021006D	Upper bearing bolt
106	1-JL20021004	Star lock
107	1-JL20021002	Mount shaft
108	1-JL20024001-001S	Adjusting knob cap
109	1-JL20024002-001S	Adjusting knob body
110	1-M8X70GB5781Z	Hex Bolt M8x70
111	1-JL21025000-001S	Blade tension knob
112	1-JL21021200A	Blade tensioner
113	1-WSH8GB96Z	Glide piece
114	1-WSH8GB96Z	Washer 8
115	1-M8X16GB70Z	Hex Socket set screw M8X16
116	1-JL21021010A	Spring
117	1-JL21020004-014T	Pointer
118	1-JL20021100A001Z	Tension bracket
119	1-JL20021001B001Z	Blade tensioner
120	1-JL20021009	Adjusting nut
121	1-JL20021004	Star lock
122	1-JL20010016-001S	Wing nut M8
148	1-M8X16GB5781Z	Hex Bolt

NOTE: Please reference the Manufacturer's Part Number when calling for Replacement Parts. For Parts under Warranty, the Serial Number of your machine is required.

PARTS DIAGRAM F



PARTS LIST F

KEY NO.	MFG. PART NO.	DESCRIPTION
123	1-JL21042001	Upper guide body
124	1-JL21042002	Upper guide mount
125	1-LOC5/16Z	Carriage bolt M8x20
126	1-WSH8GB97D1Z	Washer 8
127	1-NEC5/16X7/8	Hex nut
128	1-JL22041004	Special washer
129	1-JL22042002	Upper guide shaft
130	1-M6X10GB80B	Hex Socket set screw M6x10
131	1-M6X16GB5783B	Hex Bolt M6x16
132	1-M6GB6170Z	Hex Nut M6
133	1-JL20010016-001S	Wing nut M8
134	1-JL20041004	Bolt guide
135	1-JL20044003	Rack
136	1-ST3D5X13GB846Z	Tapping screw ST3.5x13
137	1-WSH6GB862D2B	Washer 6
138	1-WSH6GB862D2B	Washer 6
139	1-JL21041001F	Blade guide
140	1-JL21041002-001S	Slider
141	1-JL20010005	Guide bracket
142	1-JL22042004	Micro-adjusting knob
143	1-WSH6GB97D1Z	Washer 6
144	1-JL20042002	Bushing
145	1-M5X20GB70D1Z	Guide adjusting screw
146	1-JL22042003	Micro-adjusting knob
147	1-BRG6001-2RSGB276	Bearing

NOTE: Please reference the Manufacturer's Part Number when calling for Replacement Parts. For Parts under Warranty, the Serial Number of your machine is required.

WARRANTY

RIKON

POWER TOOLS®

5-Year Limited Warranty

RIKON Power Tools Inc. ("Seller") warrants to only the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship for a period of five (5) years from the date the product was purchased at retail. This warranty may not be transferred.

This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs, alterations, lack of maintenance or normal wear and tear. Under no circumstances will Seller be liable for incidental or consequential damages resulting from defective products. All other warranties, expressed or implied, whether of merchantability, fitness for purpose, or otherwise are expressly disclaimed by Seller. This five-year warranty does not cover products used for commercial, industrial or educational purposes. The warranty term for these claims will be limited to a two-year period.

This limited warranty does not apply to accessory items such as blades, drill bits, sanding discs, grinding wheels, belts, guide bearings and other related items.

Seller shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special, or consequential damages arising from the use of our products.

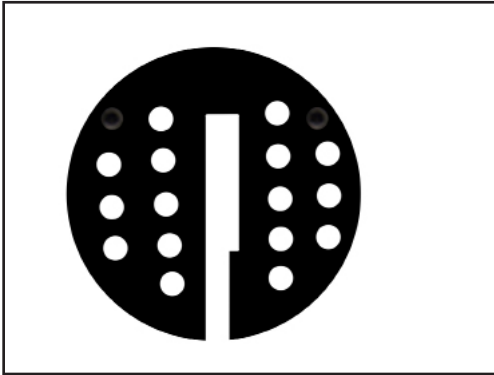
To take advantage of this warranty, proof of purchase documentation must be provided which has the date of purchase and an explanation of the complaint.

The Seller reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

To register your machine online, visit RIKON at www.rikontools.com/warranty

To take advantage of this warranty, or if you have any questions,
please contact us at 877-884-5167 or email warranty@rikontools.com

ACCESSORIES

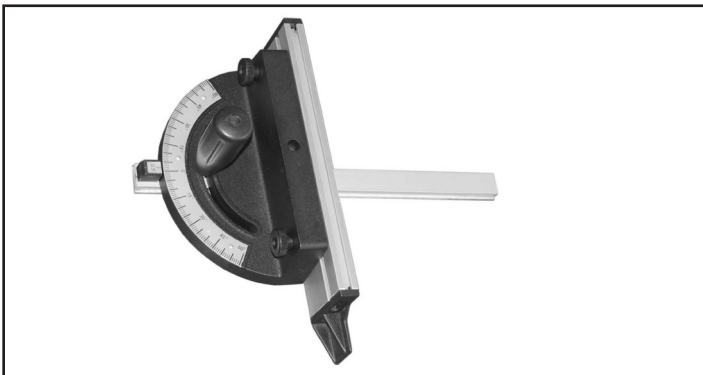


C10-391 TABLE INSERTS - PK 4

Replacement plastic inserts with rear threaded holes for hex screw levellers.

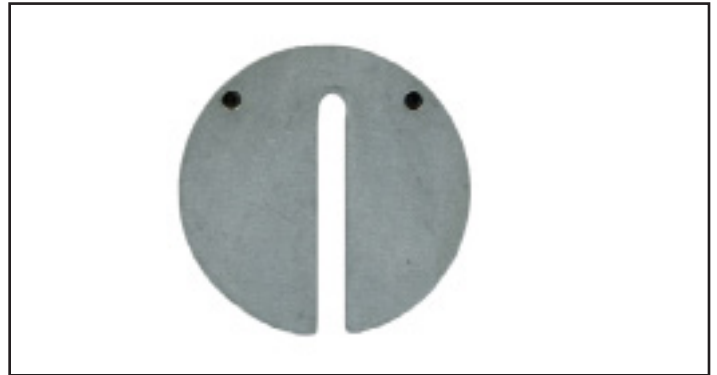


13-321 MOBILITY KIT Conversion Kit installs onto the bandsaw base to make it easy to move around the shop. Includes rear wheel assembly, front support, tow bar, hardware and instructions.



13-912 'T' SLOT MITER GAUGE

Fits 3/4" x 3/8" miter slots. Handy scale for up to 60° left and right angle settings, includes adjustable 9" aluminium fence extension and push handle.



C10-395 ALUMINIUM TABLE INSERT

Replacement cast aluminium insert with central slot for positioning the bandsaw blade. Provides solid support and includes rear table levelling screws.



C10-392 ZERO CLEARANCE INSERTS - PK 4

Pack of four plastic inserts with table levelling screws. Inserts have no slot and require user to cut their own on installation. This minimizes the slot width so debris or thin cut wood strips will not catch or fall into the thin slot. Ideal for use when cutting small pieces on the bandsaw for inlay, shims, puzzles, etc.



BAND SAW BLADES

For a complete line of 99-3/4" saw blades, contact your local RIKON Distributor, or visit the RIKON Parts website at www.rikonparts.com.



For more information:
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