

6" x 48" Belt & 10" Disc Sander



Operator's Manual

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

The serial number can be found on the specification label on the rear of your machine.

Serial Number: _____ Date of purchase: _____

For technical support or parts questions, email techsupport@rikontools.com or call toll free at (877) 884-5167

TABLE OF CONTENTS


Specifications	2
Safety Warnings.....	2-6
Sander Safety Rules	6
Contents of Package	7
Electrical Requirements.....	5&18
Assembly	8-10
Operation.....	11&12
Maintenance	13
Changing the Motor Belt.....	13
Parts Diagram	14 & 16
Parts List.....	15 & 17
Trouble Shooting.....	18
Wiring Diagram.....	18
Accessories	19
Warranty	19

SPECIFICATIONS #50-120

Motor	3/4 HP
Amps	10 A
Volts, Hertz	110 V, 60 Hz
Belt Size	6" x 48"
Belt Speed (no load)	2,030 SFPM
Belt Table Tilt	0° - 90°
Belt Fence (LxH)	7-7/8" x 4-3/4"
Disc Size (PSA) Diameter	10"
Disc Speed (no load)	1,720 RPM
Disc Table Size (LxW)	4" x 8"
Disc Table Tilt	0° - 45°
Miter Gauge 'T' Slot	3/8" x 3/4"
Dust Port (1)	2-1/2" OD, 2-5/16" ID
Overall Size (LxWxH)	28-1/4" x 17-1/4" x 16"
Base Size (LxW)	22" x 10-1/4"
Net Weight	92 lbs.

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.

California Proposition 65 Warning

 **WARNING:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Your risk from exposure to these chemicals varies, depending on how often you do this type of work. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

For more information go to www.P65Warnings.ca.gov/wood.

SAFETY SYMBOLS

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.  **WARNING** 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 gases.

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 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.

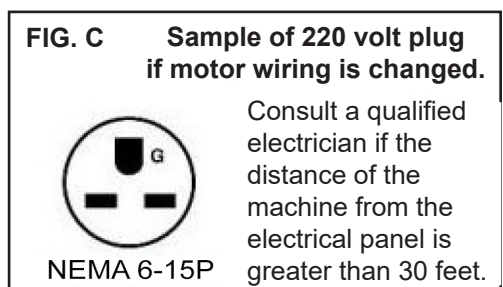
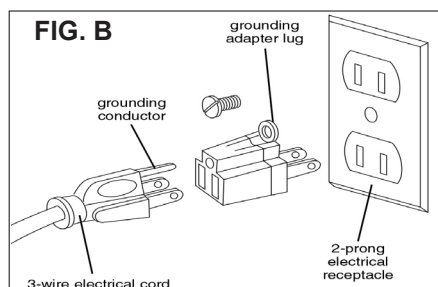
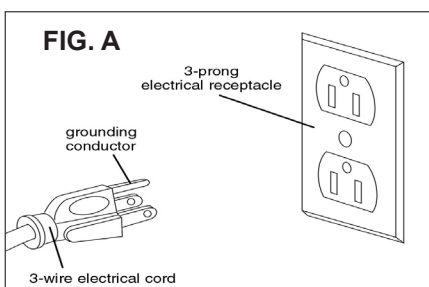
IMPROPER ELECTRICAL CONNECTION of the equipment grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. **DO NOT** connect the equipment grounding conductor to a live terminal if repair or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

REPLACE A DAMAGED OR WORN CORD IMMEDIATELY.

This tool is intended for use on a circuit that has an electrical receptacle as shown in **FIGURE A**. It shows a 3-wire electrical plug and electrical receptacle that has a grounding conductor. If a properly grounded electrical receptacle is not available, an adapter as shown in **FIGURE B** can be used to temporarily connect this plug to a 2-contact ungrounded receptacle. The adapter has a rigid lug extending from it that **MUST** be connected to a permanent earth ground, such as a properly grounded receptacle box. **THIS ADAPTER IS PROHIBITED IN CANADA.** **FIGURE C** shows the type of the 220V, 3-wire electrical plug and receptacle that has a grounding conductor that is required if the motor wiring is changed.



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, resulting in 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.

SAFETY INSTRUCTIONS

This machine is intended for the surfacing of woods, metals and composite materials. 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 sander 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. Do not attempt to operate this machine until it is completely assembled.
3. Do not turn ON this machine if any pieces are damaged or missing.
4. This machine must be properly grounded.
5. If you are not familiar with the operation of the machine, obtain assistance from a qualified person.
6. This machine **MUST** be firmly mounted to a flat and secure work surface or stand.
7. Always wear ANSI approved protective eye wear prior to operating this machine.
8. Always wear a dust mask and use adequate dust collection and proper ventilation. This machine can produce harmful particles while sanding or buffing certain types of woods, metals or other materials.
9. Do not wear loose clothing or jewelry when operating this machine. Keep long hair tied back.
10. Always make sure the power switch is in the OFF position prior to plugging in the machine.
11. Always make sure the power switch is in the OFF position when doing any assembly or setup operation.
12. Make sure all safety guards and hardware are securely tightened before operating the machine.
13. The use of any accessories or attachments not recommended may cause injury to you and damage your machine.
14. Abrasive belts and buffs should be the recommended width and length of the manufacturer.
15. Replace worn, frayed or torn abrasives or wheels, as injury to the user, or the machine, may result.
16. Always keep your face and hands clear of moving parts such as belts, discs, wheels and pulleys.
17. Keep power supply cords free of moving parts of the sander. Damaged cords can result in electric shock.
18. Maintain a minimal gap clearance (1/16" or less) between the sanding belt and the work table.
19. Always support the workpiece with the table or backstop during sanding.
20. Securely hold workpieces being buffed and worked only in the lower front 'work area' of the buffing wheel.
21. Rotating buffing wheels can cause burns and abrasions if contacted by bare flesh. Wear gloves when working.
22. Carefully feed work into the rotating sanding belt, or disc, on the downward direction, so that the abrasive action pushes the work down onto the tables where it can be controlled.
23. Do not force the work into the abrasives, as burning of the wood or stalling of the machine may result.
24. Remove material or debris from the work area. Keep work area neat and clean.

SAVE THESE INSTRUCTIONS. Refer to them often.

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



CALIFORNIA PROPOSITION 65 WARNING: Some dust created by power sanding, sawing, grinding, drilling, buffing, metal finishing and other construction activities contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Your risk from exposure to these chemicals varies, depending on how often you do this type of work. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

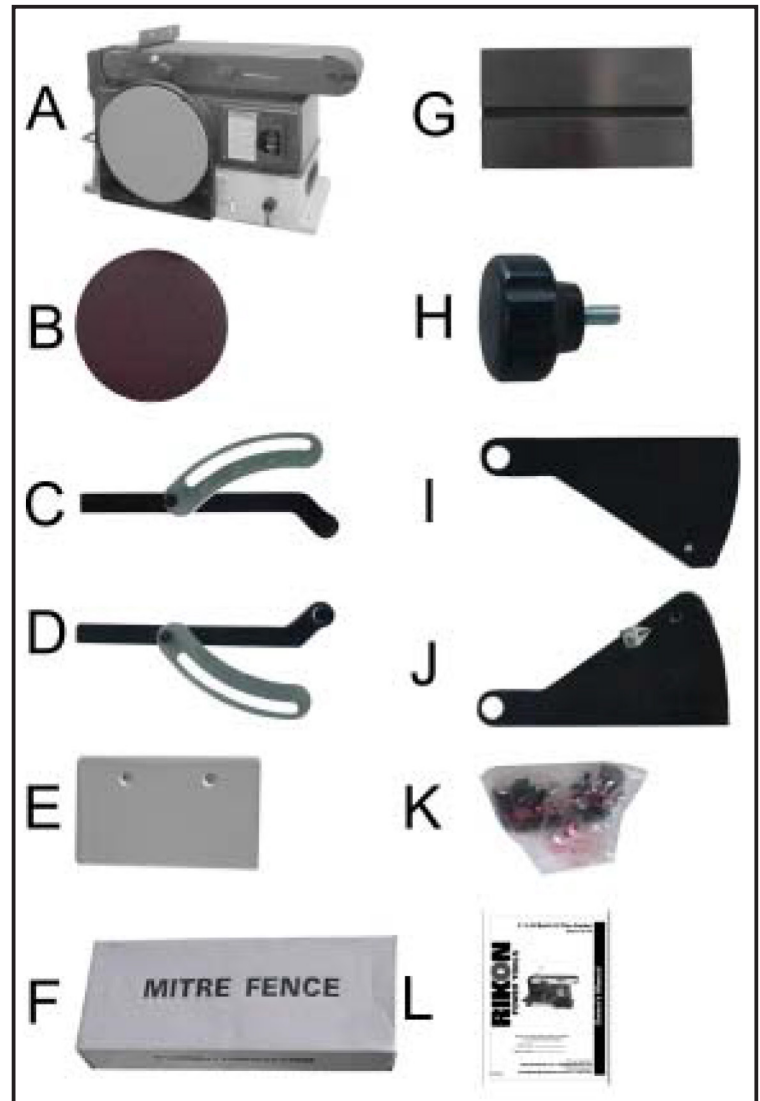
For more detailed information about California Proposition 65 log onto rikontools.com.

CONTENTS OF PACKAGE











When unpacking, check to make sure the following parts are included. If any parts are missing or broken, please call RIKON Power Tools at the number on the cover of this manual as soon as possible.

Carton Contents

Item	Description	Qty
A	Belt & disc sander assembly	1
B	Sanding disc	1
C	Table support w/scale	1
D	Table support	1
E	Work table for belt	1
F	Miter Gauge	1
G	Work table for disc	1
H	Locking knob for table support	2
I	Mount, support table	1
J	Mount, support table w/indicator	1
K	Bag of loose parts	1



List of loose parts in bag K

Description	Qty	Description	Qty
 Sunk head screw M6x16	2	 Pan head screw M6x16	4
 Washer 6mm	2	 Lock washer 6mm	4
 Knurled nut M6	2	 Washer 6mm	2
 Hex. bolt	4	 Hex "L" wrench 5mm	1
 Lock washer	4	 Hex "L" wrench 6mm	1

ASSEMBLY

Securing Sander Base Assembly to Workbench

The sander base must be secured before using. Attach a large C-Clamp to each side of the sander and the workbench. Or, permanently mount following the instructions below:

1. Place the sander on the workbench in its final operating location.
2. Place a pencil through the mounting holes of the sander base (42) and mark the hole locations on workbench.
3. Remove the sander and drill four 3/8 inch holes through the workbench.
4. Align the sander base over the holes and secure using four 5/16 inch screws (or larger) and hex nuts. (See Fig. 01)

Mounting Sanding Disc and Guard

1. Locate the sanding disc (22) and peel the backing off of the disc.
2. Align the perimeter of the sanding disc over plate. When aligned, press the disc firmly onto the disc.
3. Position the disc guard (27) onto the lower portion of the sanding disc so that the mounting holes align.
4. Using a Phillips screwdriver, fasten two pan head screws (found in parts bag) through the disc guard. (See Fig. 02)

Changing the Sanding Disc

The sandpaper disc can be removed with the table installed, or with the table removed to give more working access to the disc, if needed.

1. Peel off the used abrasive disc from the metal sanding disc. A putty knife may help in this process.
2. Make sure that the disc plate is clean of any residue. Mineral spirits will soften the PSA adhesives. Rotate the disc by hand may be necessary to get access to all of the disc surface.
3. Peel the backing off the new PSA 10" sanding disc, then center and press the sanding disc onto the metal disc plate.
4. Replace the sanding table if it was removed.

⚠ WARNING THE MACHINE MUST NOT BE PLUGGED IN AND THE POWER SWITCH MUST BE IN THE 'OFF' POSITION UNTIL ASSEMBLY IS COMPLETE.

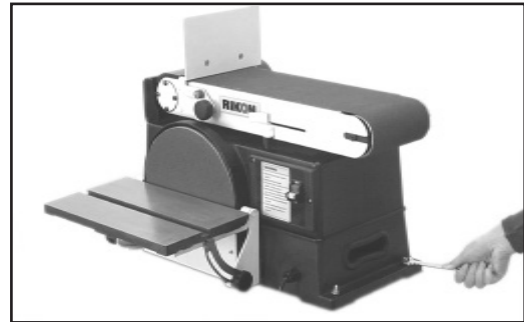


Fig. 01

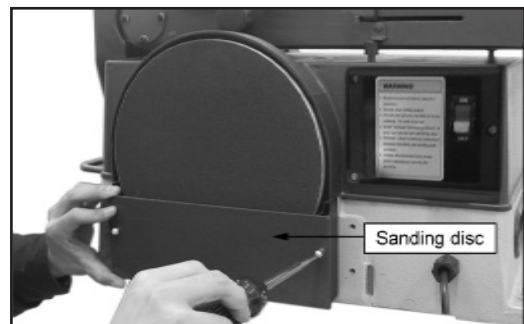


Fig. 02



Fig. 03

Installing the Belt Table

1. Place the work table for belt on the work support.
2. Insert two countersink head screws through the work table and the work support slot.
3. Put a 6mm washer and a wing nut on the screw and tighten. (See Fig. 03)

ASSEMBLY

Installing the Disc Table Assembly

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

1. Use two M6x16 pan head screws to fasten the table support mount to the front of the sander.
2. Place the support table with scale onto the table support mount.
3. Put a 6mm flat washer on the table lock knob, and place the knob into the tilt scale plate and mount. Hand tighten it only at this time. (See Fig. 04)
4. Place the table onto table support; align the four screws which are pre-assembled under the table with the holes of table support. (See Fig. 05)
5. Put the external lock washer and hex nut onto the screws, and tighten.
6. Adjust the table and re-tighten the table lock knobs.
7. Loosen the four M6 hex nuts under the table.
8. Use a 1/16 inch drill bit as a spacer. Place the drill bit between the disc and the front edge of the table. Hold the table against the 1/16 inch drill bit and tighten the four M6 hex nuts. (See Fig. 06)

Leveling Table Assembly

⚠ WARNING To avoid injury from accidental start, make sure the machine is unplugged before making any adjustments.

1. Using a combination square, check the angle of the work table with the disc. (See Fig. 07)
2. If the table is not 90 degrees with the disc, loosen the table lock knob screw and tilt the table.
3. Adjust the worktable square to the disc and re-tighten the table lock knob.
4. Adjust the pointer to the zero mark on the scale plate.

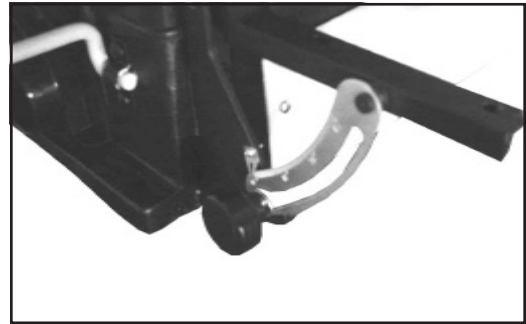


Fig. 04

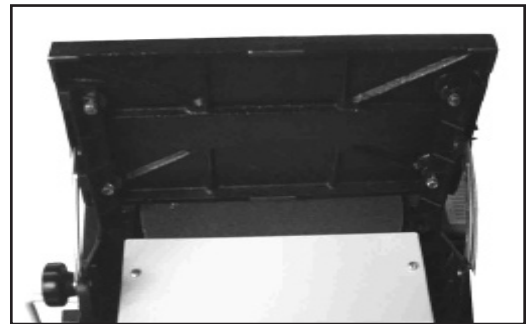


Fig. 05

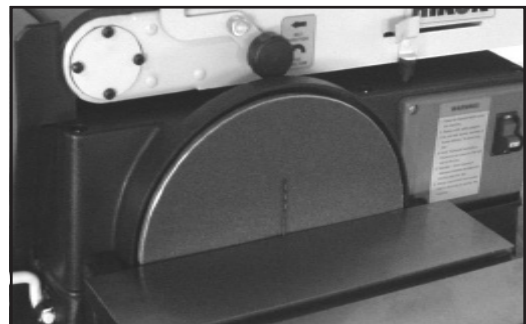


Fig. 06

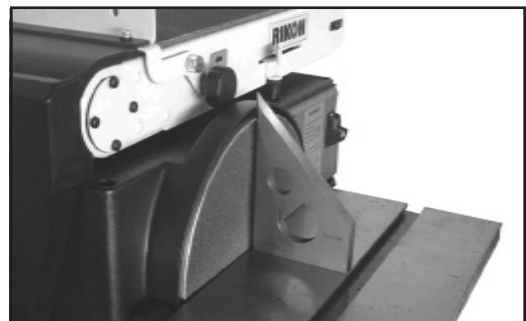


Fig. 07

ASSEMBLY

Installing the Sanding Belt

⚠ WARNING To avoid injury from accidental start, make sure the machine is unplugged before making any adjustments.

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

1. Slide the tension lever to the right to release the belt tension. (See Fig. 08)
2. Place the sanding belt over the drums with the direction arrow pointing in the proper direction. (See Fig. 09) Make sure the belt is centered on both drums.
3. Slide tension lever to the left to apply belt tension.
4. Tighten the hex socket screw (59) when the bed is in the desired position for sanding. See page 10.



Fig. 08

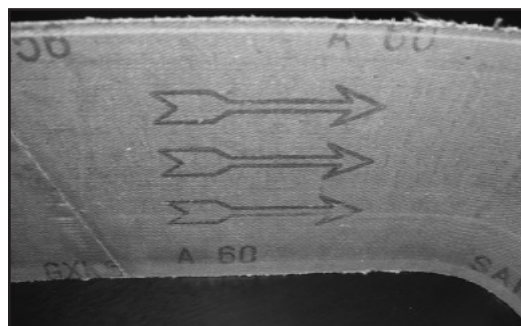


Fig. 09

Tensioning and Tracking

1. Plug in the power cord. Turn the switch “ON” and immediately “OFF”, noting if the belt tends to slide off the idler drum or drive drum.
2. If the sanding belt moves toward the disc, turn the tracking knob clockwise 1/4 turn. (See Fig. 10)
3. If the sanding belt moves away from the disc, turn the tracking knob counterclockwise 1/4 turn.
4. Turn the switch “ON” and immediately “OFF” again, noting the belt movement. Readjust the tracking knob if necessary.

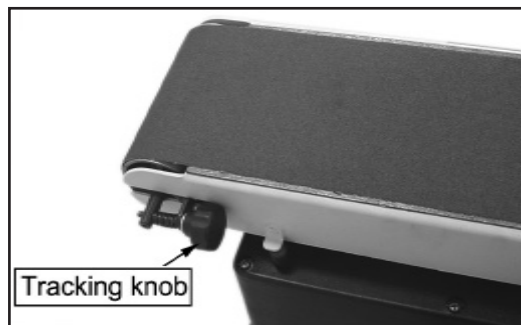


Fig. 10

On/Off Switch

The On/Off Locking Switch needs to have the switch key inserted before the switch can be used (key located in parts bag). This feature prevents unauthorized use of the sander. (See Fig. 11)

⚠ CAUTION Never walk away from sander when the machine is running. Always lock the switch in the Off position and unplug from the power supply when not in use.

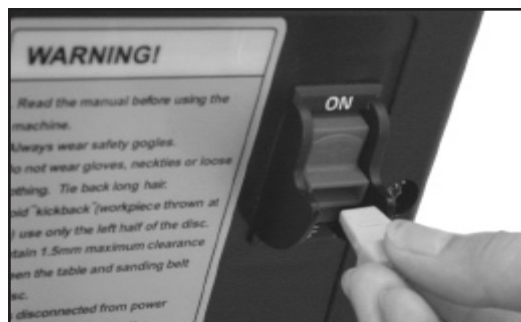


Fig. 11

Bevel Sanding

The work table can be tilted from 0 to 45 degrees for bevel sanding. Loosen the table lock knob and tilt the work table to desired angle as shown. (See Fig. 12) Re-tighten the table lock knob.

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

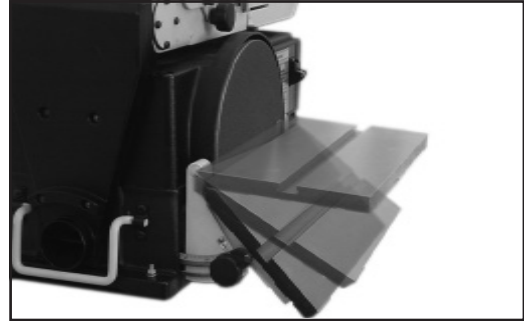


Fig. 12

Positioning the 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 work support.
2. Loosen the hex socket head locking screw (59) using a 1/4 inch hex wrench. (See Fig. 13)
3. Position the belt bed vertically as shown and tighten the hex socket head locking screw.

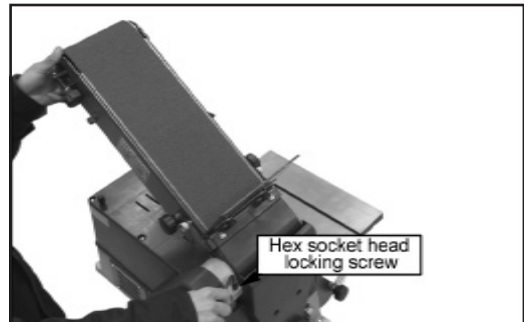


Fig. 13

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 1/16th of an inch. When checking clearance between the belt and work support, use a 1/16" drill bit as a spacer gauge. (See Fig. 14)

1. Hold the workpiece firmly with both hands, keeping fingers away from the sanding belt.
2. Keep the end butted against the backstop and move the work evenly across the sanding belt. Use extra caution when sanding very thin pieces. (See Fig. 15)
3. For sanding long pieces, remove the work support.
4. Apply only enough pressure to allow the sanding belt to remove material.

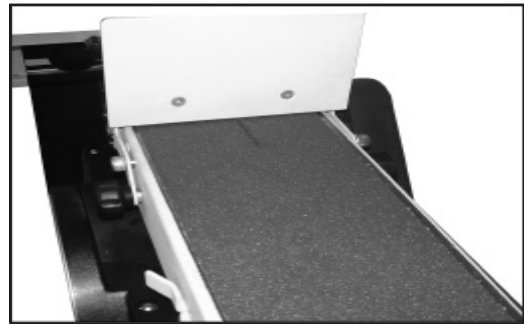


Fig. 14



Fig. 15

OPERATION

End Sanding on the Sanding Belt

To sand the end of a long workpiece, it is recommended to sand with the belt in the vertical position.

1. To raise the belt to the vertical position, follow the instructions in "Positioning Belt Bed" on the previous page.
2. Install the work table assembly.
3. Move the work evenly across the sanding belt. (See Fig. 16)

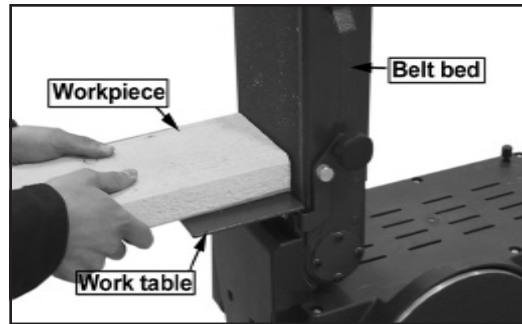


Fig. 16

Sanding Curved Edges

Always sand inside curves on the idler drum as shown. (See Fig. 17)

⚠ 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.



Fig. 17

Always sand outside curves on the left side of center on the sanding disc as shown. The downward rotating sanding disc will safely force the work down onto the work table where it can be safely controlled. (Fig. 18)

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

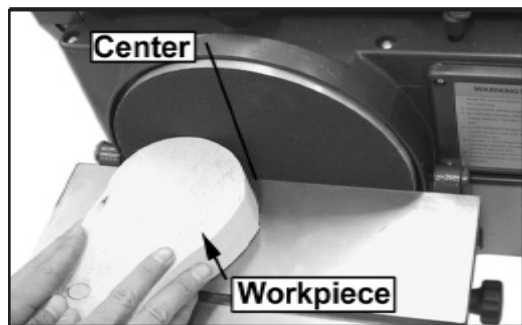


Fig. 18

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. (See Fig. 19)

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

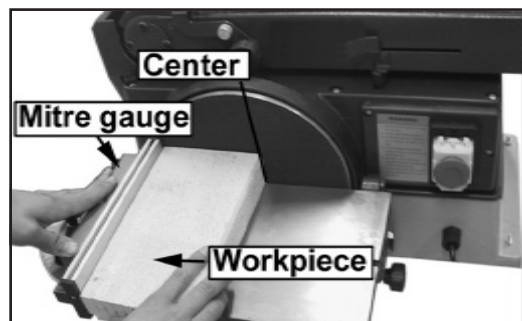


Fig. 19

MAINTENANCE

⚠ WARNING For your safety, remove the plug from power source outlet before adjusting, maintaining, or lubricating your belt and disc sander.

1. Apply a light coat of paste wax to the work table to make feeding stock easier, and reduce rust.
2. Use compressed air to frequently blow out dust and debris from the sander and motor. (See Fig. 20)

⚠ WARNING To avoid electrocution or fire, any repairs to electrical systems should be done only by qualified service technicians. Unit must be reassembled exactly to factory specifications.

3. If the power cord is worn, cut, or damaged in any way, have it repaired immediately.

Changing the Motor Belt

1. Using a Phillips screwdriver, remove the three pan head screws located in the cover. (See Fig. 21)
2. Remove the cover.
3. Loosen four M8 hex head screws to allow the pulleys to shift enough to place belt around them. Place the belt around the motor pulley and drive pulley as shown. (See Fig. 22)
4. Adjust tension of the belt by putting a wrench in the adjusting gap. Push up on the wrench to tighten the tension between the two pulleys.
5. Tighten the four M8 hex head screws carefully.
6. Test belt tension by placing fingers on either side of the belt and squeeze. There should be about a 1/4 inch 'give', or deflection, to the belt. (See Fig. 23)

NOTE: Too much tension on the pulley belt may cause increased noise and over load the motor. Not enough tension on the pulley belt may cause the belt to fail prematurely.

7. Locate the pulley cover and position it inside the edges of pulley housing.

8. Using a Phillips screwdriver, reinstall and tighten the three pan head screws.

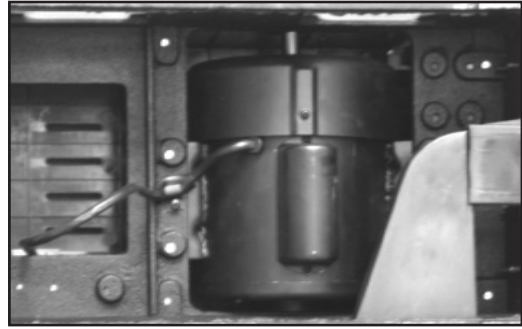


Fig. 20

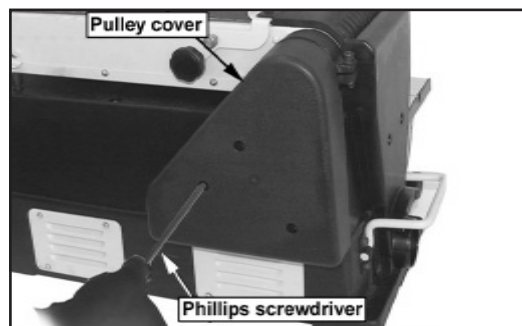


Fig. 21

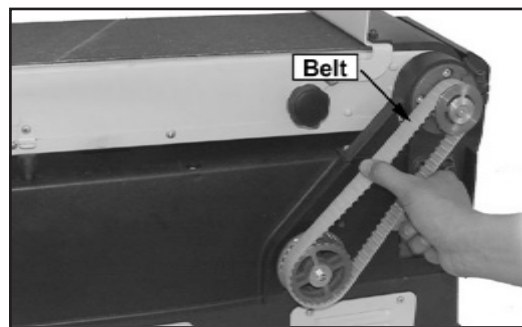


Fig. 22

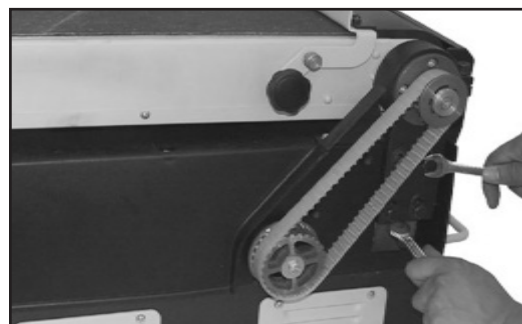
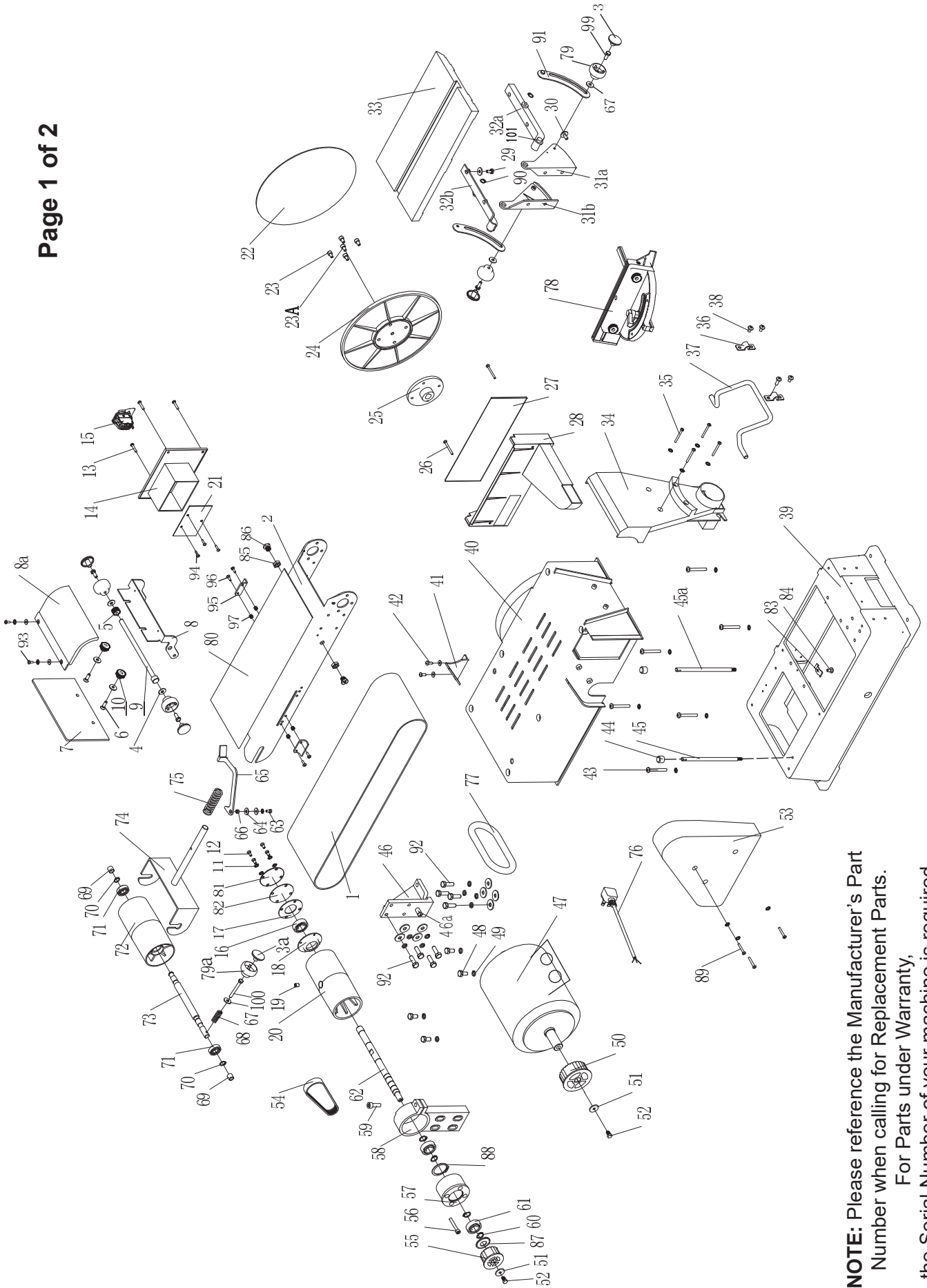


Fig. 23

PARTS DIAGRAM

50-120 6"x48" BELT & 10" DISC SANDER

Page 1 of 2



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 LIST

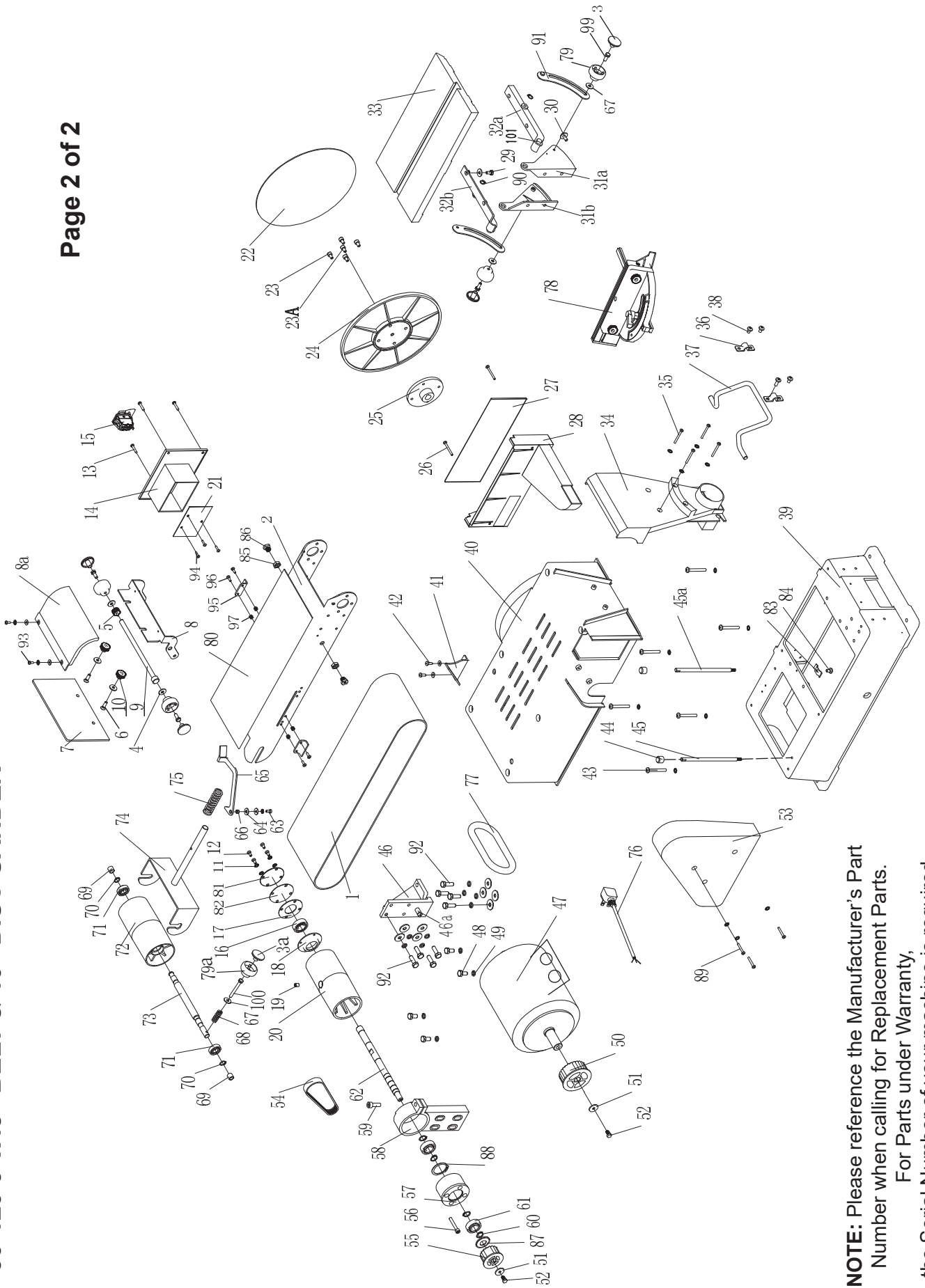
KEY NO.	DESCRIPTION	QTY.	PART NO.	KEY NO.	DESCRIPTION	QTY.	PART NO.
1	Sanding belt 6" x 48"	1	P50-120-1	26	Tapping screw M4x12	4	P50-120-26
2	Bed	1	P50-120-2	27	Disc guard	1	P50-120-27
3	Knob cap	1	P50-120-3	28	Disc shroud	1	P50-120-28
4	Washer	4	P50-120-4	29	Hex nut M6	1	P50-120-29
5	Wing screw	1	P50-120-5	30	Pan head screw M6x16	1	P50-120-30
6	Sunk head screw M6x16	4	P50-120-6	31a	Mount, table support, left	1	P50-120-31a
7	Work table for belt	1	P50-120-7	31b	Mount, table support, right	1	P50-120-31b
8	Work support, for sander belt	1	P50-120-8	32a	Table support, left	1	P50-120-32a
8A	Work support plastic belt shroud	1	P50-120-8A	32b	Table support, right	1	P50-120-32b
9	Lock pin, work support	1	P50-120-9	33	Table	1	P50-120-33
10	Wing nut M6	2	P50-120-10	34	Dust collector	1	P50-120-34
11	Lock washer-helical 5mm	5	P50-120-11	35	Pan head screw M5x16	1	P50-120-35
12	Pan head screw M5x8	4	P50-120-12	36	Clamp handle	2	P50-120-36
13	Pan head screw M5x16	3	P50-120-13	37	Handle	1	P50-120-37
14	Switch housing	1	P50-120-14	38	Pan head screw M5x16	4	P50-120-38
15	No-volt switch	1	P50-120-15	39	Cast base	1	P50-120-39
16	Bearing	1	P50-120-16	40	Motor cover	1	P50-120-40
17	Bearing spacer	1	P50-120-17	41	Safety guard, sanding belt lower	1	P50-120-41
18	Bearing cap	1	P50-120-18	42	Pan head screw M5x8	2	P50-120-42
19	Socket head screw M8x10	2	P50-120-19	43	Thread M6x145	6	P50-120-43
20	Drive drum	1	P50-120-20	44	Rubber sleeve	2	P50-120-44
21	Cover, switch housing	1	P50-120-21	45	Support stem	1	P50-120-45
22	Pad - 10" dia. sandpaper	1	P50-120-22	45a	Support stem	1	P50-120-45a
23	Screw-pan cross M6x12	4	P50-120-23	46	Lock base sander belt	1	P50-120-46
23A	Screw-pan cross M6x16	1	P50-120-23A	47	Motor	1	P50-120-47
24	Disc	1	P50-120-24	48	Hex head screw	4	P50-120-48
25	Support, sanding disc	1	P50-120-25				

CONTINUED ON PAGE 16

PARTS DIAGRAM

50-120 6"x48" BELT & 10" DISC SANDER

Page 2 of 2



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 LIST

KEY NO.	DESCRIPTION	QTY.	PART NO.	KEY NO.	DESCRIPTION	QTY.	PART NO.
49	Lock washer	12	P50-120-49	75	Index spring	1	P50-120-75
50	Drive pulley	1	P50-120-50	76	Power cord w/plug	1	P50-120-76
51	Countersink washer	2	P50-120-51	77	"D" shape rubber bushing	1	P50-120-77
52	Drive pulley	2	P50-120-52	78	Bevel protractor	1	P50-120-78
53	Pulley cover	1	P50-120-53	79	Knob body	3	P50-120-79
54	Timing belt	1	P50-120-54	80	Graphite bushing	1	P50-120-80
55	Drive pulley	1	P50-120-55	81	Platen	1	P50-120-81
56	Flat head screw M5x25	1	P50-120-56	82	Gland	1	P50-120-82
57	Bearing support	1	P50-120-57	83	Pressing plate	1	P50-120-83
58	Lock plate sander plate	1	P50-120-58	84	Cross recess pan head screw M6X10	1	P50-120-84
59	Hex socket cap screw M8x25	8	P50-120-59	85	Nut	2	P50-120-85
60	Retaining ring 15mm	4	P50-120-60	86	Cover	2	P50-120-86
61	Ball bearing	2	P50-120-61	87	Bearing cap	1	P50-120-87
62	Drive shaft	1	P50-120-62	88	Circlip for hole	1	P50-120-88
63	Pan head screw M5x16	1	P50-120-63	89	Cross recess pan head screw M4X30	3	P50-120-89
64	Rubber washer	1	P50-120-64	90	Split washer 4	4	P50-120-90
65	Tension lever	1	P50-120-65	91	Support plate	2	P50-120-91
66	Lever spacer	1	P50-120-66	92	Hex bolt	8	P50-120-92
67	Rubber washer	1	P50-120-67	93	Cross recess pan head screw M4X10	2	P50-120-93
68	Index spring	1	P50-120-68	94	Tapping screw	3	P50-120-94
69	Rubber bushing	2	P50-120-69	95	Block	2	P50-120-95
70	Retaining ring 12mm	2	P50-120-70	96	Cross recess pan head screw M4X12	4	P50-120-96
71	Ball bearing	2	P50-120-71	97	Self-locking nut	4	P50-120-97
72	Idler drum	1	P50-120-72	99	Hex bolt M6X16	1	P50-120-99
73	Idler shaft	1	P50-120-73	100	Hex bolt M6X50	1	P50-120-100
74	Drum guide	1	P50-120-74				

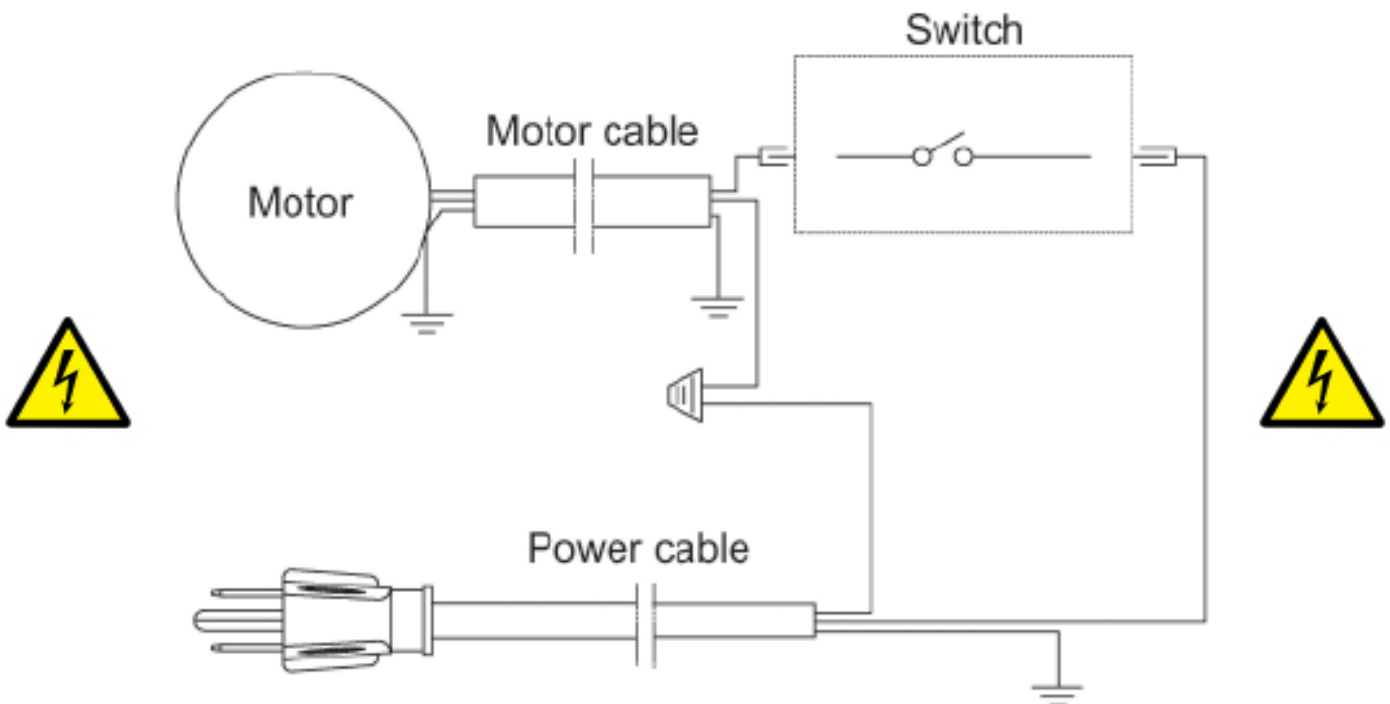
CONTINUED FROM PAGE 15

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
Sander does not operate	<ol style="list-style-type: none"> 1. Not plugged into wall outlet. 2. Locking key is not inserted. 3. Power switch defective. 4. Motor or wiring problem. 	<ol style="list-style-type: none"> 1. Plug into wall outlet. 2. Insert locking key. 3. Replace power switch. 4. Take to a qualified technician.
Motor slows when sanding	<ol style="list-style-type: none"> 1. Timing belt is too tight. 2. Applying too much pressure on work piece. 	<ol style="list-style-type: none"> 1. Decrease tension. 2. Apply less pressure to work piece when sanding.
Sanding 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 loaded with debris. 	<ol style="list-style-type: none"> 1. Clean or replace disc or belt.
Sander makes excessive noise	<ol style="list-style-type: none"> 1. Timing belt too tight, bearings need oil. 	<ol style="list-style-type: none"> 1. Decrease tension, oil bearings.

WIRING DIAGRAM

⚠ WARNING: This machine must be grounded. Replacement of the power supply cable should only be done by a qualified electrician. See page 5 for additional electrical information.



ACCESSORIES

SANDING BELTS

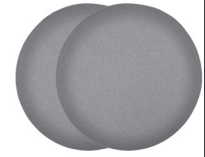
6" x 48" Aluminum Oxide



50-6080	80 Grit	Pack of 2
50-6120	120 Grit	Pack of 2
50-6150	150 Grit	Pack of 2
50-6180	180 Grit	Pack of 2
50-6220	240 Grit	Pack of 2
50-6999	Assortment	Pack of 6
* 2 each 3 grits 80, 150, 240		

SANDING DISCS

10" Diameter, PSA Aluminum Oxide



50-10060	60 Grit	Pack of 2
50-10080	80 Grit	Pack of 2
50-10120	120 Grit	Pack of 2
50-10180	180 Grit	Pack of 2
50-10220	240 Grit	Pack of 2
50-10999	Assortment	Pack of 6
* 2 each 3 grits 80, 150, 240		



UNIVERSAL WORK STAND **52-910**

28" High, sturdy all steel construction.

Top 22-1/2" x 10-1/2" , Base 33" x 21"

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



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