Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's Date Code in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

25I

24278E-B

Bauer

14" STATIONARY WOOD CUTTING BAND SAW



Visit our website at: https://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

70813

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.
Tools required for assembly and service may not be included.

⚠WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

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WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠ WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)				
NAMEPLATE AMPERES (at full load)	**EXTENSION CORD LENGTH**			
	25′	**50′**	**100′**	**150′**
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. DON'T OVERREACH. Keep proper footing and balance at all times.
14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

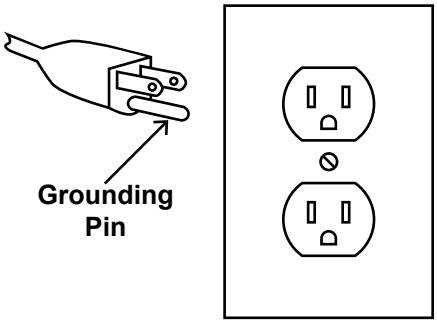
Grounding Instructions

⚠WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION
READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.



125 VAC 3-Prong Plug and Outlet
(for up to 125 VAC and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Band Saw Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Saw

1. Wear eye protection.
2. Do not remove jammed cutoff pieces until blade has stopped.
3. Maintain proper adjustment of blade tension, blade guides, and the corrosion bearings.
4. Adjust upper guide to just clear workpiece.
5. Hold workpiece firmly against table.
6. Use special care when unpacking or replacing Band Saw blade. Blade can be under tension and may suddenly uncoil. Wear ANSI-approved safety glasses under a full face shield and heavy-duty work gloves.
7. Remove Switch Key after use and before removing a jammed workpiece.
8. Construct an appropriate Push Stick or Featherboard out of wood according to the guidelines on page 10 and page 11.
9. **Hot motor! To prevent injury, do not touch motor during, or immediately after, use.**
10. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
11. When servicing use only identical replacement parts.

12. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

13. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

14. Industrial applications must follow OSHA guidelines.

15. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

16. Avoid unintentional starting. Prepare to begin work before turning on the tool.

17. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

18. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Use tools with the lowest vibration when there is a choice between different processes.

4. Include vibration-free periods each day of work.

5. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

Electrical Rating	120VAC / 60Hz / 10A
Motor No Load Speed	1750 RPM
Blade Speed	3600 SFPM (High) 1800 SFPM (Low)
Cutting Width Capacity	13-3/8″
Cutting Height Capacity	8″
Bevel Range	0° to 45°
Blade Size	100" x 1/2" x .042", 4 TPI
Blade Capacity	1/8″ to 3/4″ W
Dust Port	4″ diameter
Weight	180 lbs.

Setup - Before Use:

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

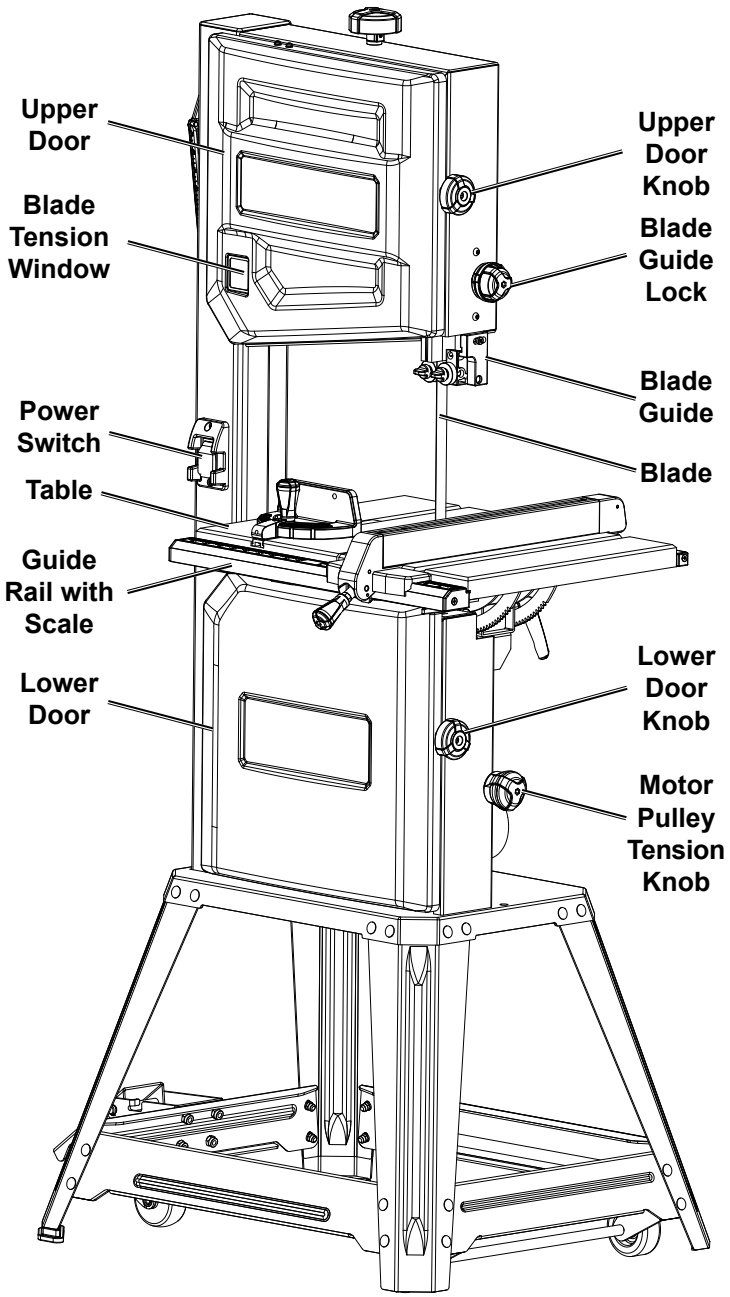
⚠WARNING

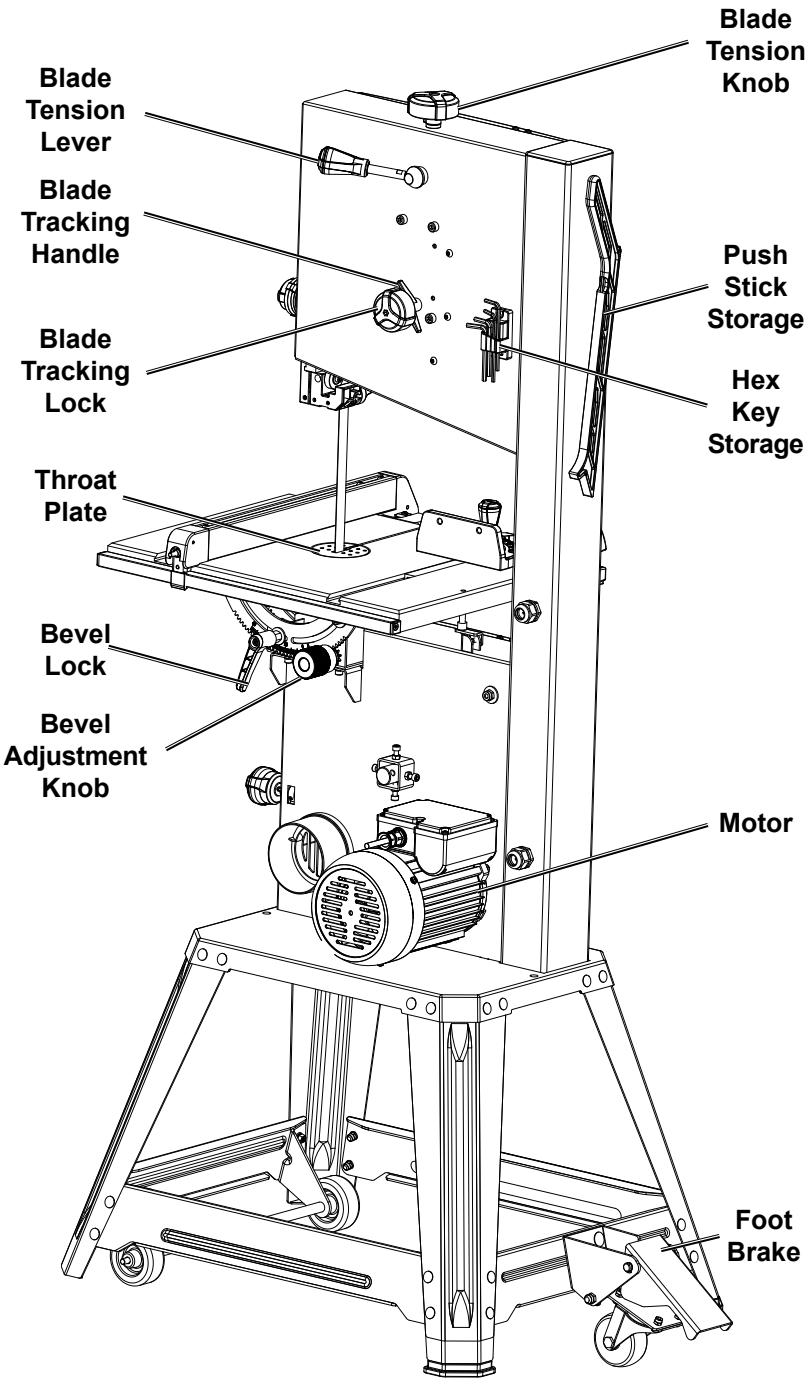
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

WARNING! TO PREVENT SERIOUS INJURY: Band Saw is heavy; use an assistant to help lift it from carton and assemble.

Functions




Blade Tension Knob
Blade Tension Lever
Blade Tracking Handle
Push Stick Storage
Blade Tracking Lock
Hex Key Storage
Throat Plate
Bevel Lock
Bevel Adjustment Knob
Motor
Foot Brake

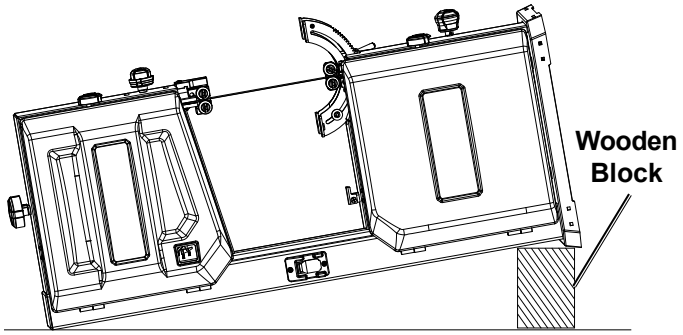
Bauer

Stand Assembly

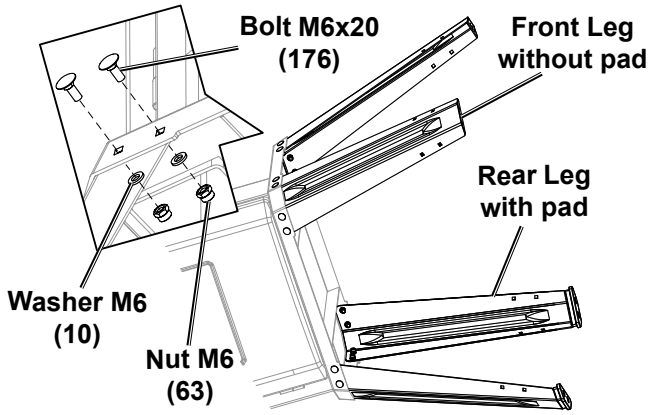
WARNING! TO PREVENT SERIOUS INJURY:
Wear heavy-duty gloves when moving Band Saw.

Note: Finger tighten hardware until Stand assembly is complete.

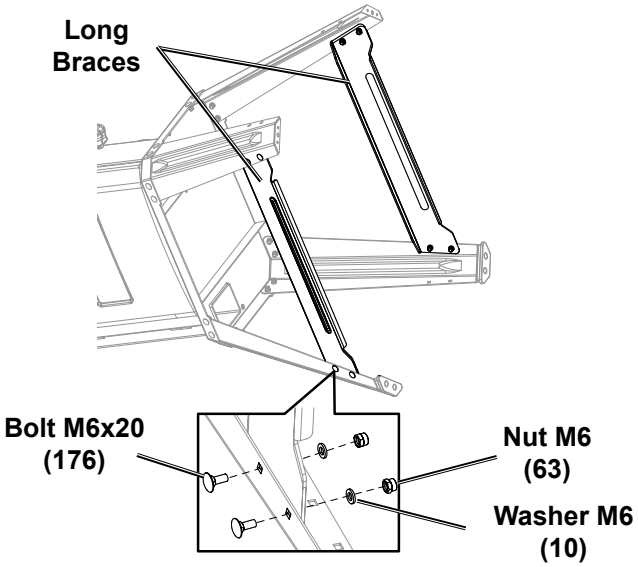
1. With assistance, lay Band Saw down on a stable surface capable of supporting its weight and the weight of the Legs. Prop up bottom of Band Saw with wooden block.



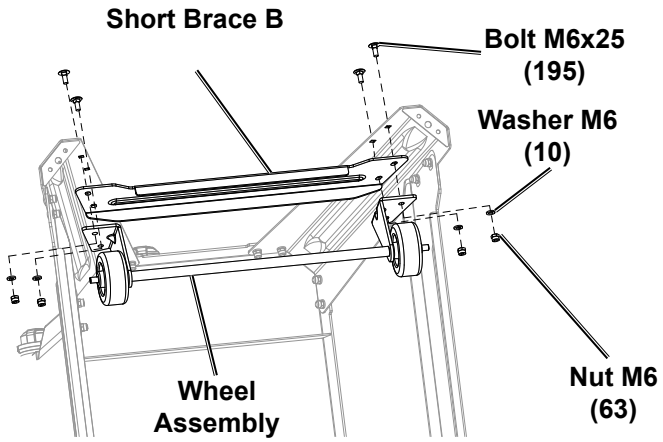
2. Attach Legs to inside of Base using 16 Bolts M6x20 (176), Washers M6 (10), and Nuts M6 (63).



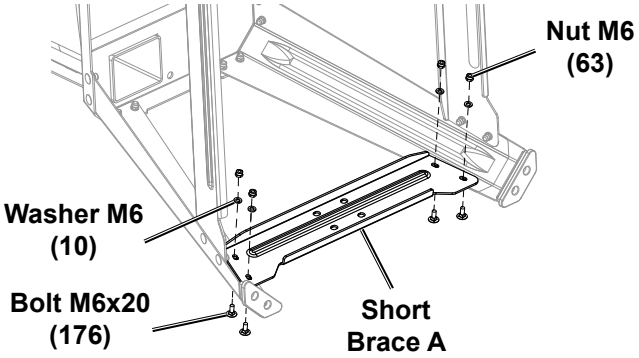
3. Attach Long Braces to inside of Legs, using 8 Bolts M6x20 (176), Washers M6 (10) and Nuts M6 (63).



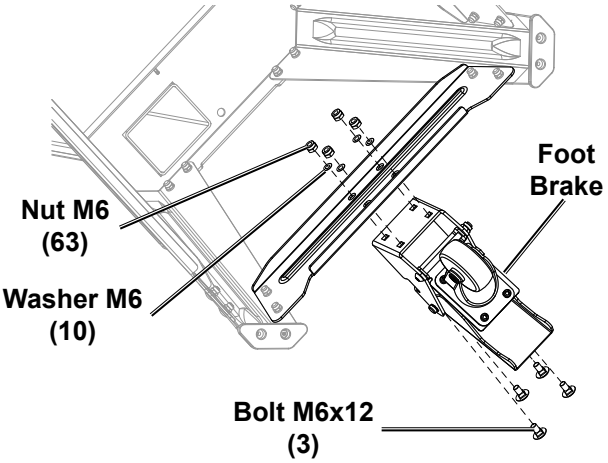
4. Attach Short Brace B and Wheel Assembly to front Legs witout Pads using 4 Bolts M6x25 (195), Washers M6 (10), and Nuts M6 (63).



5. Attach Short Brace A to rear Legs with Pads, using 4 Bolts M6x16 (176), Washers M6 (10) and Nuts M6 (63).



6. Attach Foot Brake Assembly to Short Brace (A), using 4 Bolts M6x12 (3), Washers M6 (10) and Nuts M6 (63).



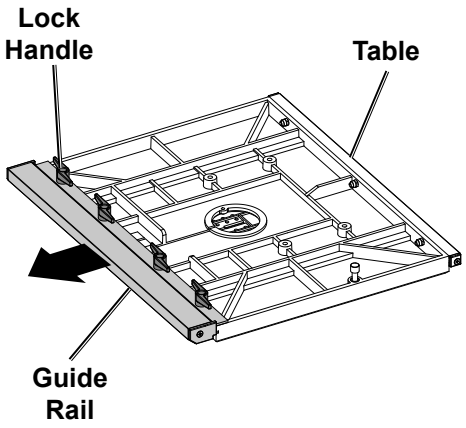
7. With assistance, place Band Saw upright. Tighten hardware securely.

8. Lower Foot Brake and move Band Saw to desired location.

9. Raise Foot Brake to lock the Stand.

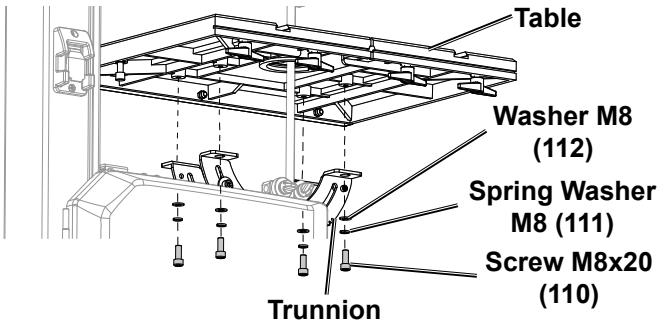
Attaching Table

1. Open Lock Handles and remove Guide Rail.



2. Turn Table over and carefully guide slot around blade, lining up holes on Table and Trunnion.

3. Attach Table to Trunnion using 4 Spring Washers M8 (111), Washers M8 (112), and Screws M8x20 (110).



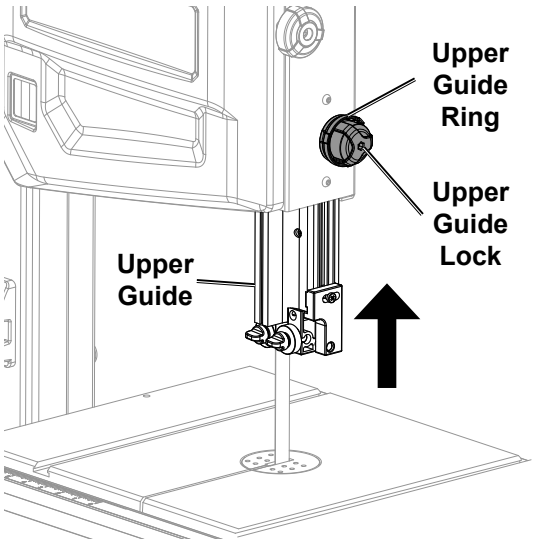
4. Replace Guide Rail and tighten Lock Handles.

Squaring Table to Blade

1. Loosen Upper Guide Lock.

2. Turn Upper Guide Ring clockwise to raise Upper Guide all the way up.

3. Tighten Upper Guide Lock securely.

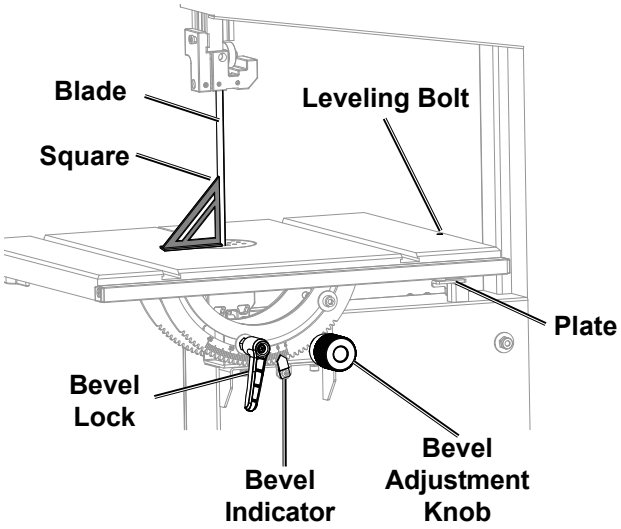


4. Place a square (not included) on the Table, flush against Blade without bending Blade.

5. Turn Leveling Bolt until Bolt head touches Plate.

6. Loosen Bevel Lock and rotate Bevel Adjustment Knob until Table is square to the Blade. Tighten Bevel Lock.

7. Loosen Bevel Indicator and set to 0°. Tighten Bevel Indicator.



Essential Straight Push Stick Features and Functions

Note: Straight style (traditional) stick shown. A different stick design may be used if it properly protects against all hazards. **Diagram not to scale.**

- Push-sticks must be made from sturdy, defect-free, plywood or normal wood to prevent unexpected breakage. Material must be at least 1/4″ thick, but no thicker than the finished wood.
- Inspect push-stick before use and do not use a damaged or deteriorated push-stick.
- Push-stick dimensions will vary depending on the application and user.

Handle Notch

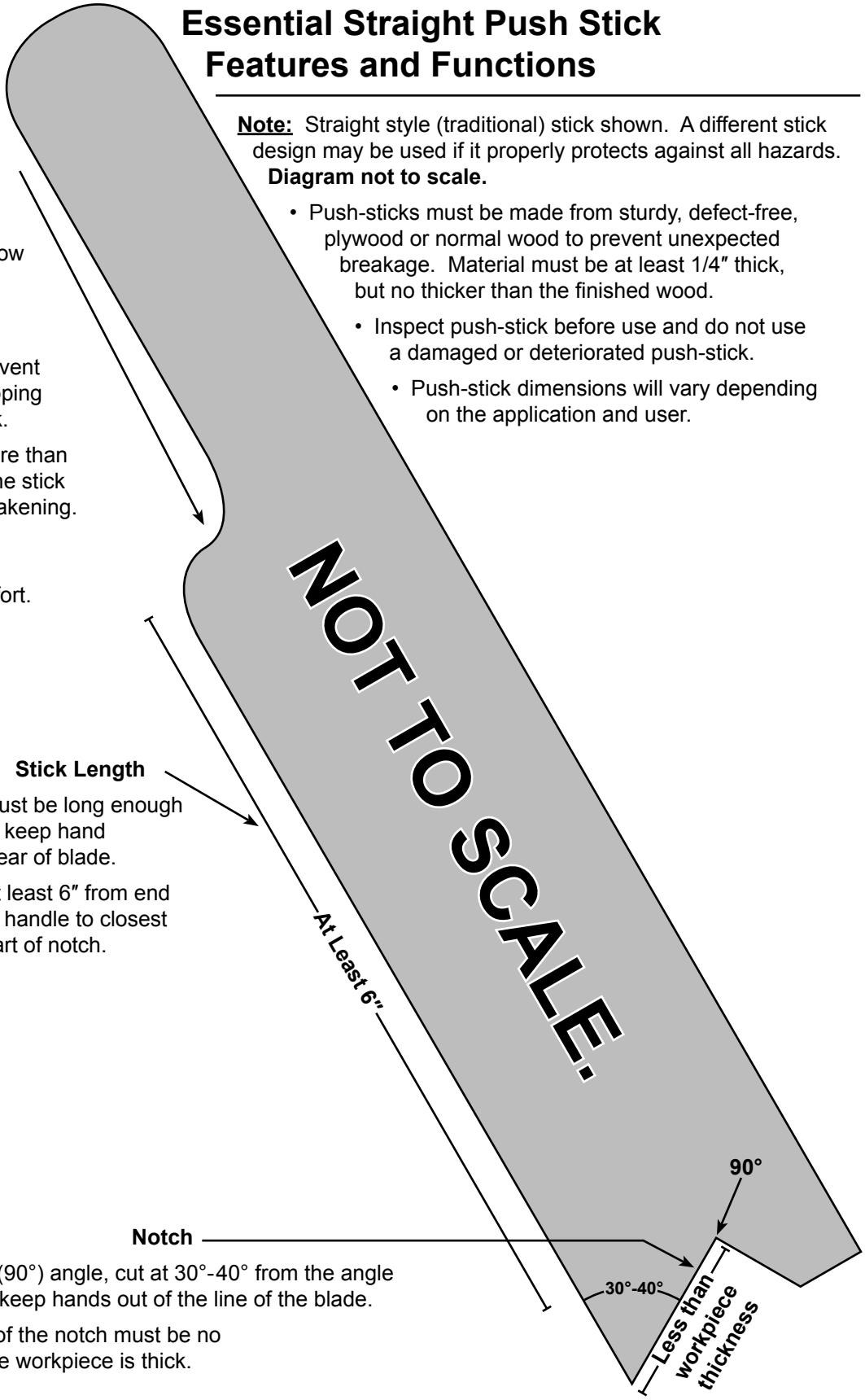
- Must be far enough down the stick to allow a comfortable and firm grip.
- Must be deep enough to prevent hand from slipping down the stick.
- Do not cut more than halfway into the stick to prevent weakening.
- Corners may be rounded to increase comfort.

Stick Length

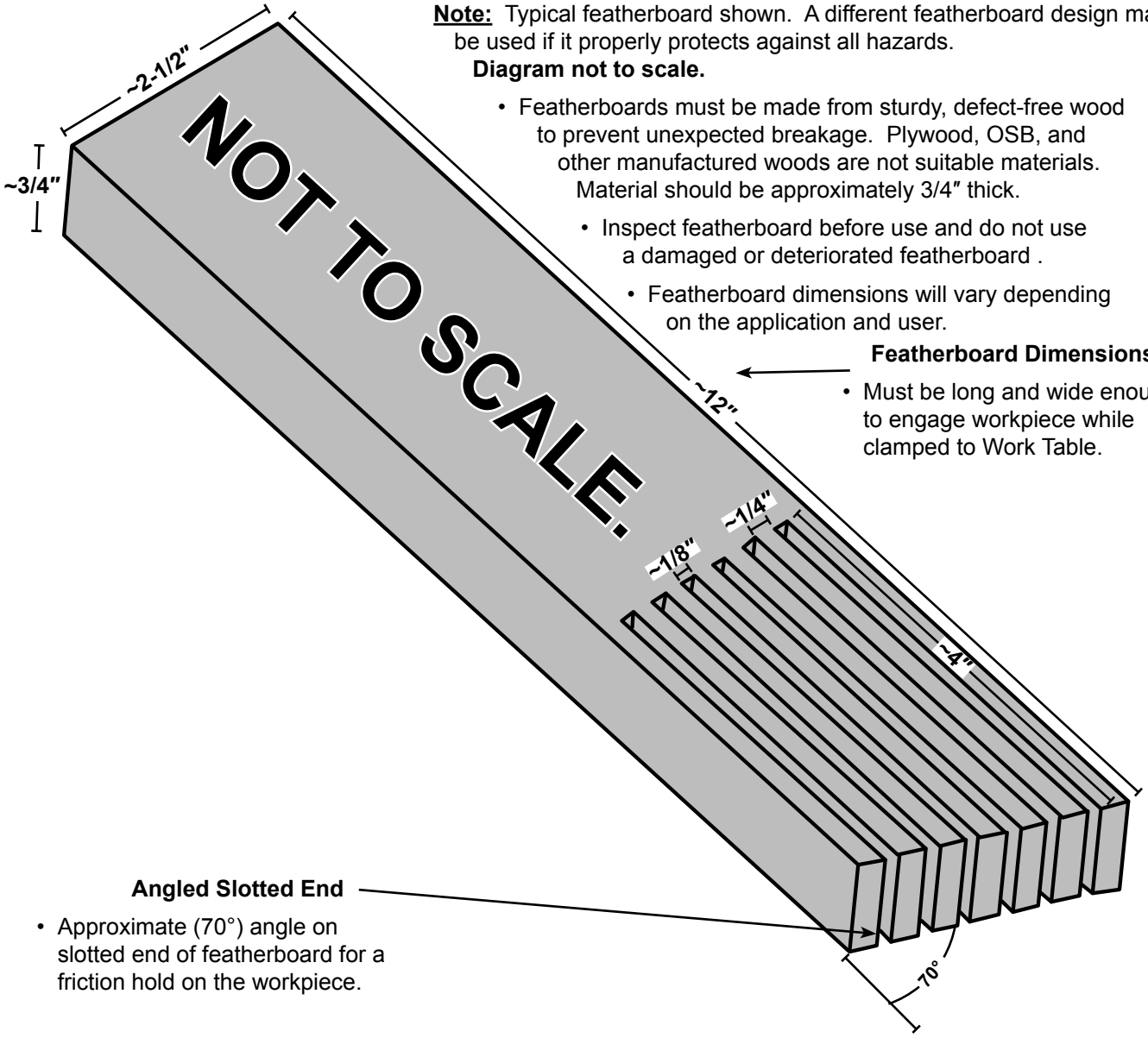
- Must be long enough to keep hand clear of blade.
- At least 6″ from end of handle to closest part of notch.

Notch

- Must be right (90°) angle, cut at 30°-40° from the angle of the stick to keep hands out of the line of the blade.
- The lower lip of the notch must be no longer than the workpiece is thick.



Essential Featherboard Features and Functions



Note: Typical featherboard shown. A different featherboard design may be used if it properly protects against all hazards.
Diagram not to scale.

- Featherboards must be made from sturdy, defect-free wood to prevent unexpected breakage. Plywood, OSB, and other manufactured woods are not suitable materials. Material should be approximately 3/4″ thick.
- Inspect featherboard before use and do not use a damaged or deteriorated featherboard .
- Featherboard dimensions will vary depending on the application and user.

Featherboard Dimensions

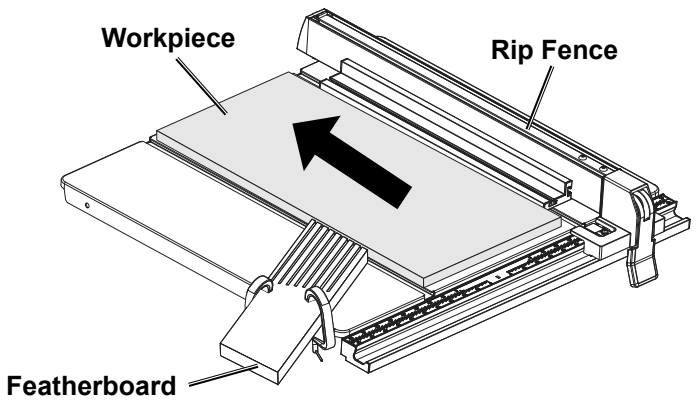
- Must be long and wide enough to engage workpiece while clamped to Work Table.

Angled Slotted End

- Approximate (70°) angle on slotted end of featherboard for a friction hold on the workpiece.

Featherboard Use

- **WARNING! TO PREVENT SERIOUS INJURY: Featherboard must be mounted in FRONT of Blade against uncut portion of workpiece ONLY to prevent kickback.**
- Lower Saw Blade.
- Position Rip Fence as desired and lock in place.
- Place workpiece over Saw Blade and against Rip Fence.
- Place featherboard to place friction against workpiece in FRONT of Blade ONLY.
- Clamp featherboard in place on Work Table with C-Clamp(s).



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

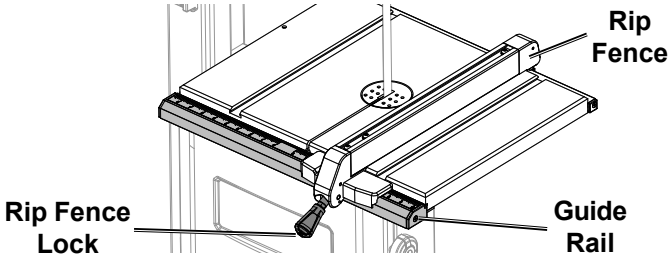
TO PREVENT INJURY:
Wear heavy-duty work gloves and ANSI-approved safety goggles when handling blade. DO NOT WEAR GLOVES WHILE SAWING.

Dust Extraction

Attach dust collection system (sold separately) to Dust Port.

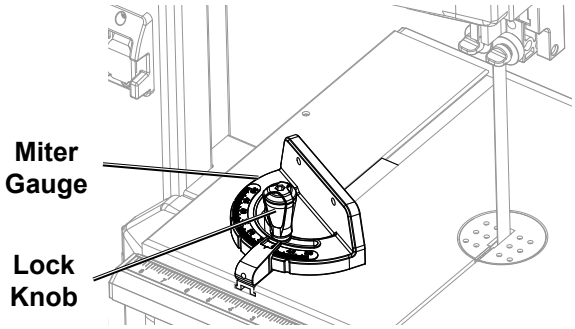
Rip Cut

1. Attach Rip Fence to right or left of Table so that Rip Fence Lock is at front of Guide Rail.
2. Push down on Rip Fence Lock.



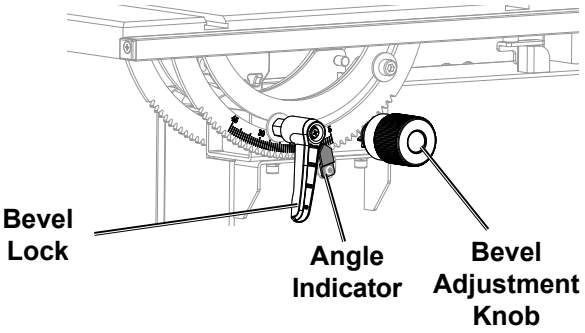
Crosscut/Miter Cut

1. Place Miter Gauge in left or right Table groove. Loosen lock knob.
2. Adjust the Miter Gauge to the desired angle on Miter Scale Indicator.
3. Tighten lock knob securely.



Bevel Cut

1. Loosen Bevel Lock.
2. Tilt Table by rotating Bevel Adjustment Knob until Angle Indicator reaches desired angle. Tighten Bevel Lock securely.

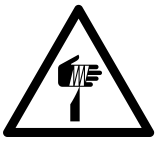


Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. A workpiece that hangs over the edge of the Table 5 inches or more needs to be supported properly.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.

General Operating Instructions

Note: Belt is factory-set to high speed to cut soft wood. Belt should be adjusted to low speed to cut hard wood.
Reference Adjusting Blade Speed on page 15



⚠ DANGER

SAWS CAN QUICKLY AMPUTATE FINGERS IF MISUSED.
Keep hands well clear of cutting area. Do not wear gloves when sawing.

Placement of Hands during Cutting Process

1. Review safety warnings at the beginning of the manual before performing any cutting procedure.
2. Do not pass hands directly in front of Blade when cutting the workpiece. Push the workpiece into the Blade using a push stick, featherboard, push block or by holding the workpiece against the Miter Gauge.

WARNING! TO PREVENT SERIOUS INJURY: SAFE CUTTING PROCEDURES VARY DEPENDING ON THE TYPE OF CUT TO PREVENT SERIOUS INJURY FROM KICKBACK:

Use Rip Fence for every Rip Cut (cut along with the grain).

BUT

Do not use Rip Fence for any crosscut (cut against the grain).

Rip Cuts

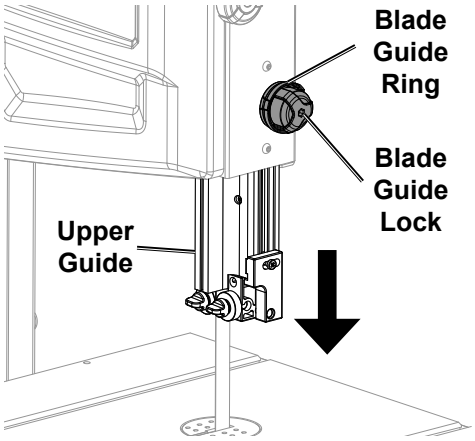
1. Rip Cuts are straight cuts made parallel to (along with) the grain of the wood by sliding the workpiece along the fence.
2. For workpieces wider than 6″ hold the workpiece, staying clear of the Blade. For workpieces between 2″ and 6″, use the included push stick. Use a push block (not included) when ripping widths under 2″.

Crosscuts/Miter Cuts

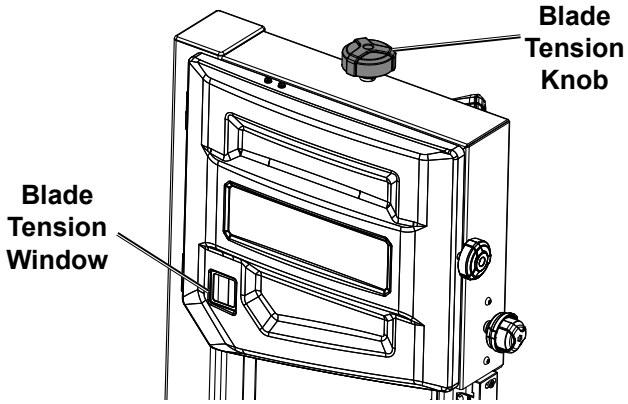
3. Adjust the Miter Gauge to the needed angle and place it in the left or right miter gauge groove on the working table.
4. Hold the workpiece against the Miter Gauge, and slide them together to make the cut. Clamp smaller workpieces to a piece of scrap wood that can reach beyond the Miter Mauge and hold the scrap against the gauge while making the cut. Keep the clamp clear of the saw blade.

Making a Cut

1. Loosen Upper Guide Lock.
2. Turn Upper Guide Ring counterclockwise until Upper Guide is 1/8″ above workpiece.
3. Tighten Upper Guide Lock securely.



4. Adjust width and/or angle of cut.
5. Turn Power Switch to OFF position. Plug the Band Saw into a grounded 120VAC outlet.
6. Lift Power Switch up to turn ON.
7. Look through Blade Tension Window. Indicator should point to the green section. If not, turn Blade Tension Knob until it does.

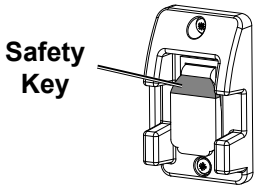


Note: Feed workpiece against the toothed side of the Blade.

8. At the start of the cut, hold workpiece with one hand firmly on the Table (and against the Rip Fence, if used), and the other hand, with the aid of the Push Stick, push the workpiece toward the moving Blade. Keep both hands out of the path of the Blade.

WARNING! TO PREVENT SERIOUS INJURY: Throughout the cut, keep all body parts a safe distance from the moving Blade.

9. After the cut is under way, use the Push Stick to continue guiding the workpiece forward. Just before the cut is completed, move hand safely farther away from the workpiece and the Blade. Continue pushing the workpiece into the Blade with the Push Stick until the cut is complete.
10. Once the cut is complete, continue to maintain control of the workpiece.
11. Push the Power Switch down to turn OFF. Then, wait until the Saw Blade completely stops rotating before removing the workpiece.
12. To prevent accidents, turn off the Band Saw and remove its Safety Key. Disconnect its power supply after use. Clean, then store the Band Saw and Safety Key indoors out of children's reach.



Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

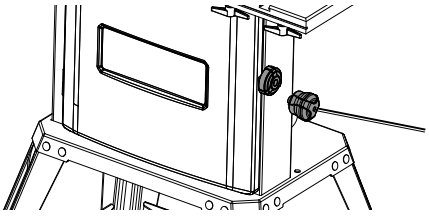
Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware,
   - misalignment or binding of moving parts,
   - cracked or broken parts,
   - damaged electrical wiring, and
   - any other condition that may affect its safe operation.
2. **AFTER USE,** wipe external surfaces with clean cloth. Clean interior with brush and vacuum cleaner. Empty Dust Tray and dust collector.
3. **PERIODICALLY,** remove Blade and clean Pulleys with moist cloth.
4. **WARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

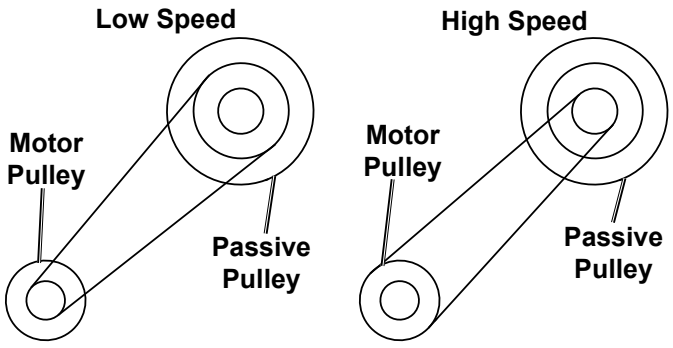
Adjusting Blade Speed

Note: Belt is factory-set to high speed to cut soft wood. Belt should be adjusted for low speed to cut hard wood.

1. Open Lower Door.
2. Loosen Motor Pulley Tension Knob, move Drive Belt according to desired speed, rotate the Passive Pulley by hand to ensure Drive Belt is seated correctly. Tighten Motor Pulley Tension Knob.



3. To test proper tension on Belt, press down on center of Belt. There should be 1/2″ deflection or less.
4. Close Lower Door.

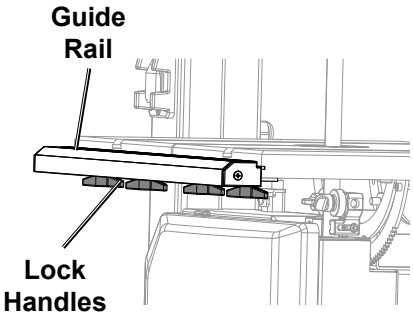


Blade Replacement

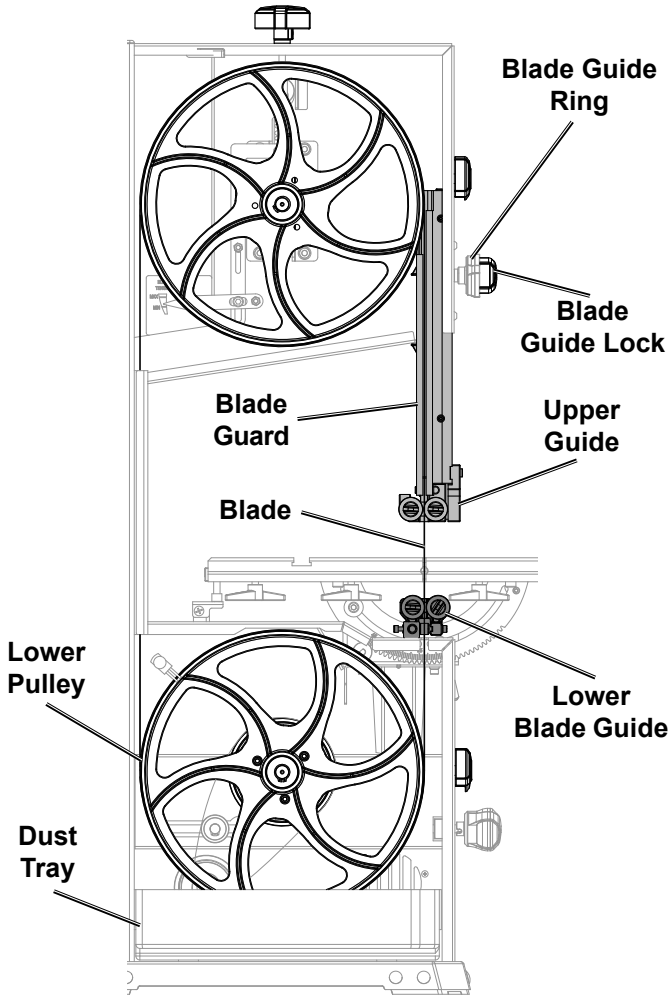
<u>WARNING!</u> TO PREVENT SERIOUS INJURY:
Wear heavy-duty work gloves and ANSI approved safety goggles when handling blade.

Removal

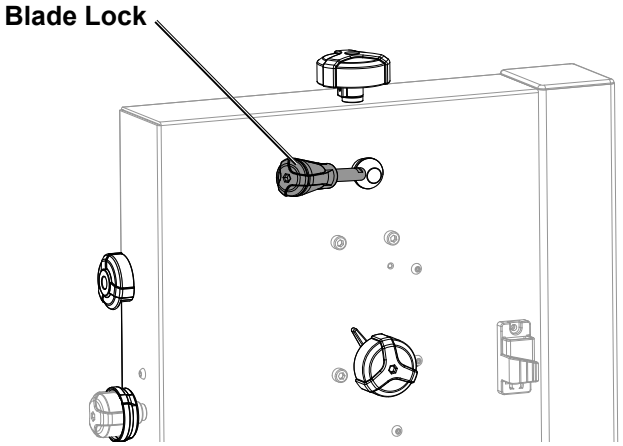
1. Loosen four Lock Handles under Table and remove Guide Rail.



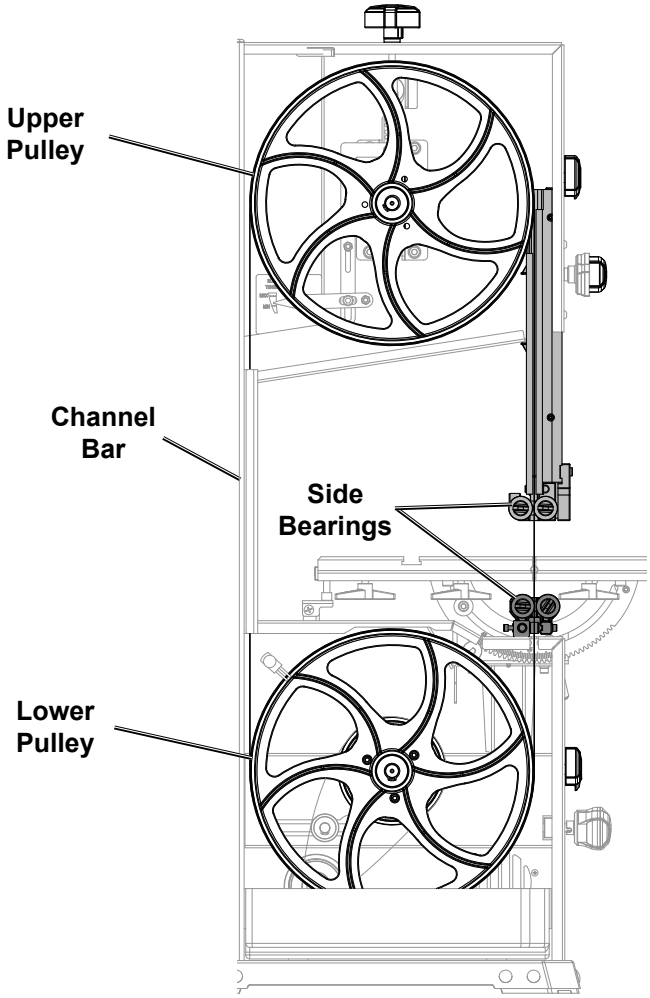
2. Open Upper and Lower Doors.
3. Remove Dust Tray.
4. Loosen Upper Guide Lock.
5. Turn Upper Guide Ring counterclockwise to bring Blade Guide to lowest position.



6. Turn Blade Lock clockwise.
7. Carefully remove Blade.

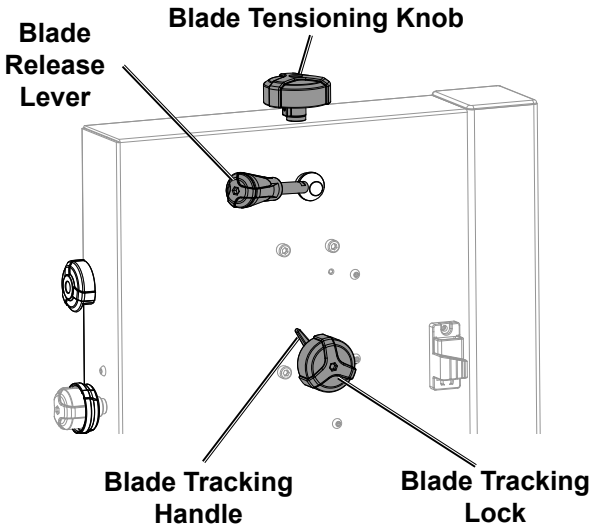


1. Place Blade, with teeth facing down and forward, over Upper Pulley, through Channel Bar gap, Upper and Lower Side Bearings and Lower Pulley.

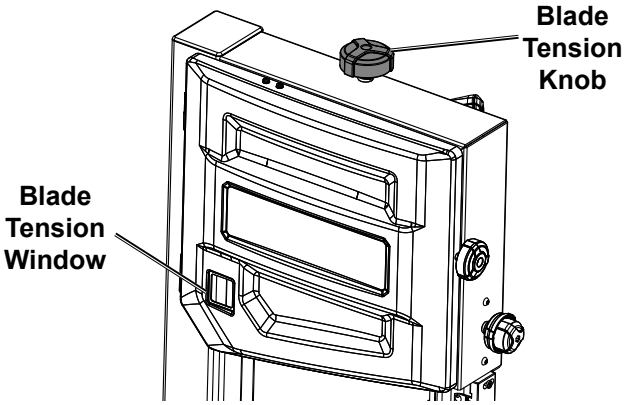


Tension Blade

2. Turn Blade Release Lever counterclockwise.
3. Rotate upper Pulley clockwise by hand and check that Blade is centered.
4. If Blade is not centered, loosen Blade Tracking Lock and turn Blade Tracking Handle until Blade is centered.



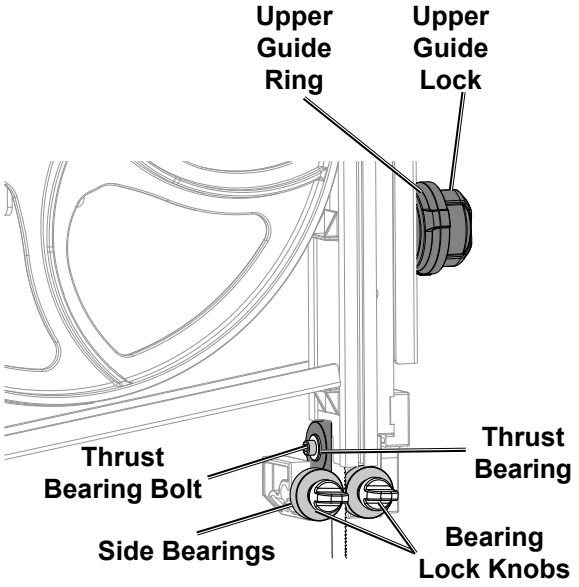
5. Tighten Blade Tracking Lock.
6. Look through Blade Tension Window. Indicator should point to the green section. If not, turn Blade Tension Knob until it does.



7. Make Adjustments to Upper and Lower Blade Guide Bearings as needed. Reference ***Adjusting Guides on page 18 .***
8. Close Upper and Lower Doors.
9. Replace Guide Rail to Table and tighten Lock Handles.

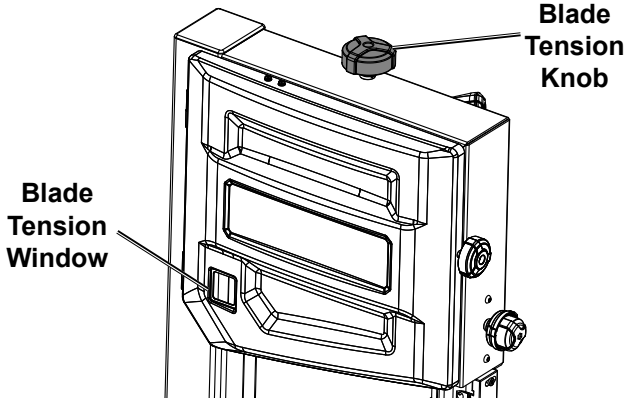
Adjusting Guides

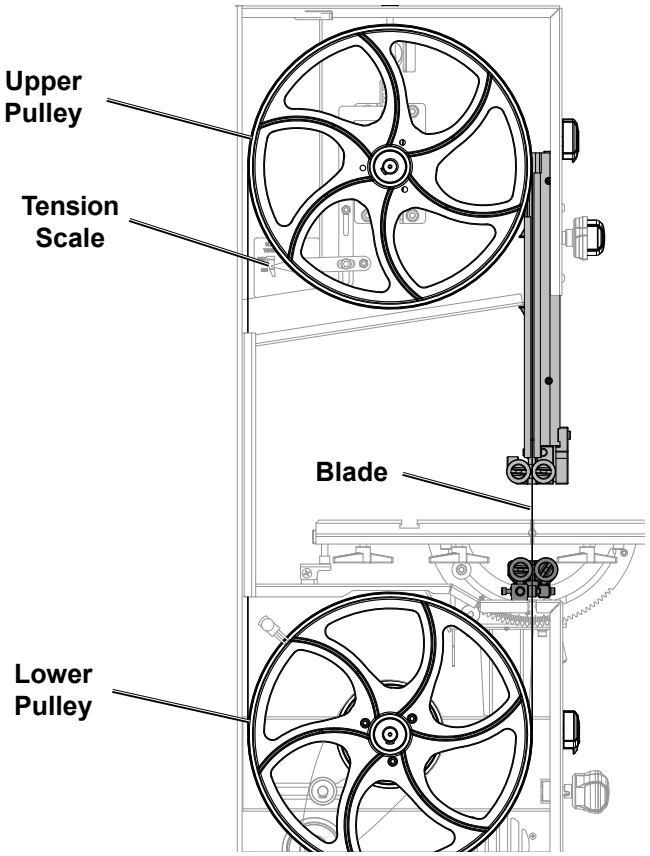
1. Loosen Bearing Lock Knobs.
2. Adjust Side Bearings so that they are equal or less than 0.03″ away from Blade. Use a feeler gauge (sold separately) to check the gaps. Tighten Lock Knobs.
3. Loosen Thrust Bearing Bolt. Adjust Thrust Bearing from back of Blade so it is equal or less than 0.04″ away from blade. Use a feeler gauge (sold separately) to check the gap. Tighten Bolt.
4. Open Lower Door.
5. Loosen Side Bearing Lock Knobs.
6. Adjust Side Bearings so that they are equal or less than 0.03″ away from Blade. Use a feeler gauge (sold separately) to check the gaps.
7. Tighten Bearing Lock Knobs.
8. Close Lower Door.



Tensioning Saw Blade

Look through Blade Tension Window. Indicator should point to the green section. If not, turn Blade Tension Knob until it does.





Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	1. Cord not connected. 2. No power at outlet. 3. Tool's thermal reset breaker tripped (if equipped). 4. Internal damage or wear. (Carbon brushes or switch, for example.)	1. Check that cord is plugged in. 2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. 3. Turn off tool and allow to cool. Press reset button on tool. 4. Have technician service tool.
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3.
Performance decreases over time.	1. Blade dull or damaged. 2. Carbon brushes worn or damaged.	1. Replace as needed. 2. Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	1. Forcing machine to work too fast. 2. Blade dull or damaged. 3. Blocked motor housing vents. 4. Motor being strained by long or small diameter extension cord.	1. Allow machine to work at its own rate. 2. Replace as needed. 3. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air. 4. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3.
Cuts are not straight	1. Work not square with Table. 2. Dull Blade. 3. Upper Guide Assembly loose.	1. Square table according to Attaching Table on page 9 2. Replace Blade. 3. Tighten Upper Guide Lock.
Blade dulling too rapidly	1. Blade is too coarse. 2. Hard spots on material. 3. Blade installed backwards.	1. Use a finer tooth Blade. 2. Increase pressure more gently on object being cut. 3. Remove Blade and turn inside out before reinstalling.
Frequent Saw Blade Breakage	1. Blade is too coarse for workpiece being cut. 2. Guides/Guards are misaligned. 3. Possible Blade weld cracking.	1. Use a Blade with a finer pitch. 2. Adjust the Guides/Guards. Replace the Saw Blade. 3. Check Blade weld for cracks, replace Blade if needed.
Workpiece cuts appear rough	1. Workpiece being fed into Saw Blade to fast. 2. Blade is too coarse for material being cut.	1. Slow down the speed at which you are feeding material through the blade. 2. Use a blade with a finer pitch.

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

Record Product's Date Code Here:_____

Note: If product has no Date Code, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175514677 when ordering parts.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List and Diagram

Parts List

Part	Description	Qty
1	Flat Key (type C)	1
2	Motor Pulley	1
3	Bolt M6x12	13
4	Motor Component	1
5	Bolt M6x20	4
6	Dust Port	1
7	Driving Axle	1
8	Nut	4
9	Spring Washer M6	14
10	Washer M6	58
11	Screw (A)	1
12	Screw ST4.2x9.5	2
13	Guide Rod	1
14	Angular Adjusting Shim	1
15	Set Screw M6x12	3
16	Pointer Spring	1
17	Steel Ball	1
18	Miter Scale Indicator	1
19	Friction Pad	3
20	Miter Gauge	1
21	Scale Indicator	1
22	Screw M4x8	1
23	Brush Screw	1
24	Brush	1
25	Set (A)	1
26	Flat Washer M8	4
27	Nut M8	7
28	Flat Washer M6	3
29	Angler Mounting Base	1
30	Bolt M5x10	1
31	Push Stick	1
32	Blade Tracking Lock	1
33	Blade Tracking Handle	1
34	Angle Lock	1
35	Handle Cover	2
36	Bolt M6x20	1
37	Power Cord	1
38	Blade Tensioning Lever Seat	1
39	Tensioning Eccentric	1
40	Blade Tensioning Lever	1
41	Blade Tensioning Lever Cover	1
42	Column Plug	1

Part	Description	Qty
43	Bearing Lock Knob	4
44	Set (B)	5
45	Bearing	5
46	Flat Washer M5	9
47	Cylindrical Pin (B)	3
48	Screw (C)	1
49	Cylindrical Pin (A)	1
50	Fixed Seat (B)	1
51	Fixed Seat (A)	1
52	Set Screw M6x10	3
53	Locking Block	1
54	Lifting Body	1
55	Rack	1
56	Handle Spring	1
57	Angle Lock	1
58	Angle Adjusting Gear	1
59	Angle Lock Nut	1
60	Buffer Cap	1
61	Set Screw M8x50	1
62	Tension Ring	1
63	Nut M6	43
64	Rear Guide Rail Plug (left)	2
65	Screw St4.2x13	4
66	Rear Ruler Seat	1
67	Bolt M6x10	1
68	Table	1
69	Strip Guard	1
70	Ruler Seat Plug (left)	1
71	Guide Rail	1
72	Scale Plate	1
73	Ruler Seat Plug (right)	1
74	Thrust Bearing	1
75	Bearing Shaft	1
76	Clip	1
77	Positioning Block	1
78	Cylindrical Pin	1
79	Bolt M6x8	2
80	Bolt M6x12	5
81	Screw	1
82	Fence Scale Indicator	1
83	Guide Pipe Fixing Seat	1
84	Cylindrical Pin	1
85	Cylindrical Pin	1
86	Steel Ball	1

Part	Description	Qty
87	Pointer Spring	1
88	Screw M6x6	1
89	Clamping Handle Cover	1
90	Rip Fence Lock	1
91	Nut M8	1
92	Eccentric Wheel	1
93	Locking Plate	1
94	Screw M4x10	4
95	Washer M4	10
96	Spring Plate	1
97	Spring Washer M4	4
98	Nut M4	4
99	Locking Plate Spring Plate	1
100	Screw M4x4	2
101	Guide Seat Friction Pad	1
102	Rip Fence Screw	1
103	Rip Fence Tube	1
104	Screw (C)	1
105	Guide Tube Roller	1
106	Rear Clamping Seat	1
107	Rear Locking Plate	1
108	Guide System Spring	1
109	Cylindrical Pin	1
110	Screw M8x20	4
111	Spring Washer M8	4
112	Flat Washer M8	4
113	Shaft Ring	1
114	Angle Locking Screw	1
115	Angle Set Screw	2
116	Lock Handle	4
117	Fixed Base	1
118	Trunnion	2
119	Eccentric Stopper	1
120	Bolt M5x16	4
121	Angle Adjusting Seat Assembly	1
122	Bolt M4x8	2
123	Blade Tensioning Knob	1
124	N/A	
125	Tensioning Screw	1
126	Tension Spring	1
127	Tensioning Block	1

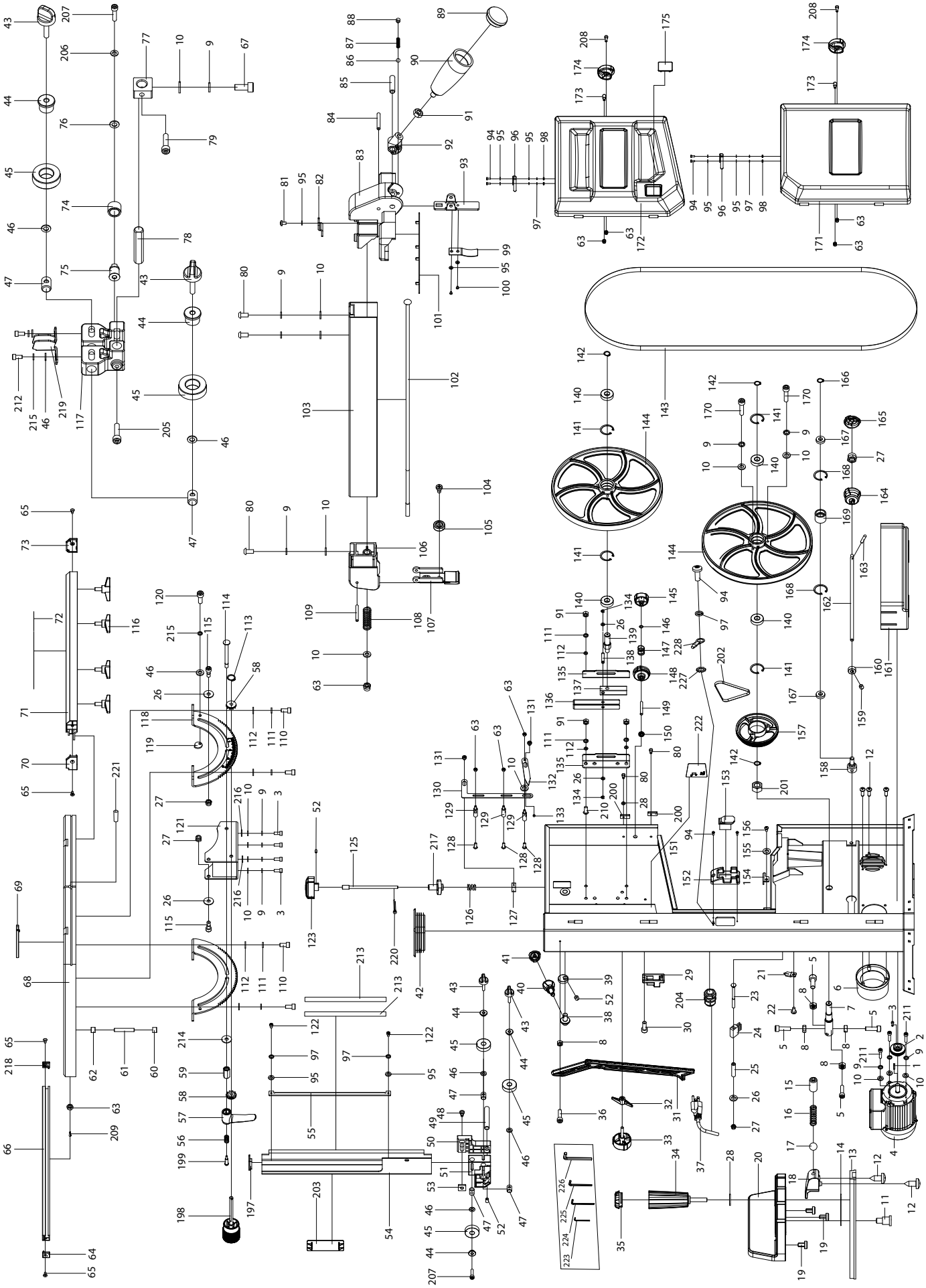
Parts List (continued)

128	Bolt M6x16	3
129	Support Rod	3
130	Tension Indicator Rod	1
131	Pointer Screw	2
132	Tension Scale	1
133	Pointer Nut	1
134	Clip	2
135	Upper Pulley Fixing Seat	2
136	Tension Rod	1
137	Tensioning Block (B)	1
138	Rotating Shaft	1
139	Upper Pulley Shaft	1
140	Bearing	4
141	Retaining Ring	4
142	Shaft Ring	3
143	Blade	1
144	Pulley	2
145	Upper Guide Ring	1
146	Locking Hand Spring	1
147	Pulley Pad	1
148	Upper Guide Lock	1
149	Adjusting Screw	1
150	Gear (B)	1
151	Body Assembly	1
152	Switch Panel	1
153	Switch	1
154	Stop Block	1
155	Wave Washer	1
156	Safety Baffle Screw	1
157	Passive Multi Wedge Pulley	1
158	Tensioning Wheel Axle	1
159	Screw M5x8	1
160	Stop Ring	1
161	Dust Tray	1

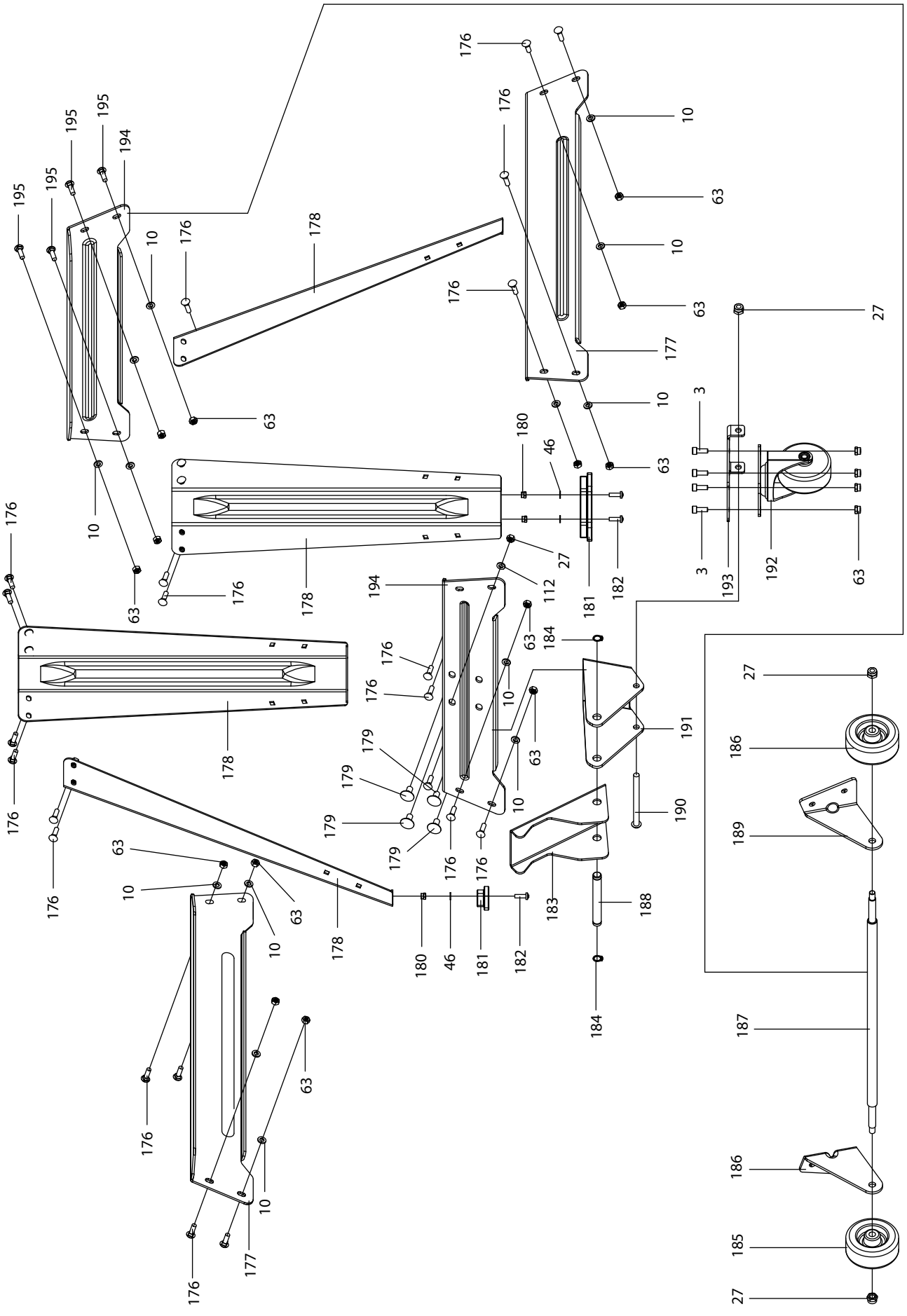
162	Screw Rod	1
163	Elastic Cylindrical Pin	1
164	Pulley Tensioning Knob	1
165	Belt Pulley Tension Cover	1
166	Shaft Ring	1
167	Bearing	2
168	Retaining Ring	2
169	Tension Pulley	1
170	Bolt M6x25	3
171	Lower Wheel Cover	1
172	Upper Wheel Cover	1
173	Door Lock Screw	2
174	Door Lock	2
175	Window Bezel	1
176	Bolt M6x20	28
177	Long Brace	2
178	Leg	4
179	Bolt M8x25	4
180	Nut M5	4
181	Foot	2
182	Screw M5x16	4
183	Foot Pedal (B)	1
184	Shaft Ring	2
185	Wheel	2
186	Wheel Support (A)	1
187	Axle	1
188	Pedal Rotation Pin	1
189	Wheel Support (B)	1
190	Bolt M8x100	1
191	Foot Pedal (C)	1
192	Foot Brake	1
193	Foot Pedal (A)	1
194	Short Brace (B)	1
195	Bolt M6x25	4

196	N/A	
197	Lifting Body Plug	1
198	Angle Knob	1
199	Locking Handle Screw	1
200	Slider (B)	2
201	Nut M20	1
202	V-Ribbed Belt	1
203	Saw Blade Guard	1
204	Tightener	2
205	H.S.Bolt M5x10	1
206	Large Flat Pad	1
207	Bolt M5x20	1
208	Bolt M6x16	2
209	Bolt M6x20	4
210	Bolt M8x16	4
211	Bolt	4
212	Bolt	2
213	Sponge Pad B	2
214	Large Pad	1
215	Spring Washer	3
216	6mm Washer	2
217	Bushing	1
218	Rear Rail End Cover, Right	1
219	Lower Protection Cover	1
220	C ring	1
221	Tapered Cotter 8x26	1
222	Tension Label	1
223	Allen Key	1
224	Allen Key	1
225	Allen Key	1
226	Allen Key	1
227	Ground Connection Terminal	2
228	Washer	2

Assembly Diagram



Assembly Diagram (continued)



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We 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 product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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