

Operating Instructions and Parts Manual 14-inch Woodworking Band Saw Model JWBS-14SFX



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1.0 IMPORTANT SAFETY INSTRUCTIONS

WARNING - To reduce risk of injury:

- 1. Read and understand entire owner's manual before attempting assembly or operation.
- Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- Replace warning labels if they become obscured or removed.
- 4. This band saw is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a band saw, do not use until proper training and knowledge have been obtained.
- Do not use this band saw for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
- Always wear approved safety glasses/face shield while using this machine. (Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.)
- Before operating band saw, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do not wear gloves.
- 8. Keep work area clean. Cluttered areas and benches invite accidents.
- 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. Sect. 6.3, Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.
- 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.

- Disconnect tools before servicing; when changing accessories, such as blade, bits, cutters and the like.
- 12. Direction of feed: Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 13. Maintain proper adjustment of blade tension, blade guides, and thrust bearings.
- 14. Adjust upper blade guides to just clear workpiece (approximately 1/8").
- 15. Make sure blade tension, tracking and blade guides are all properly adjusted.
- Make relief cuts where possible, when cutting curved stock.
- 17. When feeding small work pieces into blade, always use push stick, fixture, or similar device to keep hands at a safe distance.
- 18. Hold stock firmly and flat against table.
- 19. Wear ear protectors (plugs or muffs) during extended periods of operation.
- Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
- 21. Make certain switch is in OFF position before connecting machine to power supply.
- 22. Make certain machine is properly grounded.
- Do not back stock out of blade while blade is running.
- 24. Do not remove jammed cutoff pieces until blade has stopped.
- 25. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
- 26. Keep safety guards in place at all times when machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after completion of maintenance.
- 27. Check damaged parts. Before further use of machine, 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.
- 28. Keep floor around machine clean and free of scrap material, oil and grease.

- 29. Keep visitors a safe distance from work area. Keep children away.
- 30. Make your workshop child proof with padlocks, master switches or by removing starter keys.
- 31. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 32. Maintain a balanced stance at all times so that you do not fall into blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- 33. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
- 34. Use recommended accessories; improper accessories may be hazardous.
- 35. Maintain tools with care. Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- Turn off machine before cleaning. Use a brush or compressed air to remove chips or debris not your hands.
- 37. Do not stand on machine. Serious injury could occur if machine tips over.
- 38. Never leave machine running unattended. Turn power off and do not leave band saw until blade comes to a complete stop.
- 39. Remove loose items and unnecessary work pieces from area before starting machine.
- 40. Keep hands out of path of saw blade. Do not reach around a moving saw blade.

- 41. Don't use in dangerous environment. Do not expose machine to rain or use in wet or damp locations. Keep work area well lighted.
- 42. Make sure band saw is securely fastened to base.
- 43. Do not start the band saw with a workpiece in contact with the blade.
- 44. Allow blade to reach full speed before cutting.
- 45. Keep blades clean and sharp. Do not use blades that are cracked, poorly welded, or have missing or deformed teeth.
- 46. Use a push stick or other safety device when ripping narrow workpieces.

▲ WARNING: This product can expose you to chemicals including lead and cadmium which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca.gov.

WARNING: Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca.gov/wood.

Familiarize yourself with the following safety notices used in this manual:

This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

This means that if precautions are not heeded, it may result in serious, or possibly even fatal, injury.

SAVE THESE INSTRUCTIONS

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3.0 About this manual

This manual is provided by JET, covering the safe operation and maintenance procedures for a JET Model JWBS-14SFX Band Saw.

This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

This manual is not intended to be an exhaustive guide to band saw operational methods, use of jigs or aftermarket accessories, choice of stock, etc. Additional knowledge can be obtained from experienced users or trade articles. Whatever accepted methods are used, always make personal safety a priority.

If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: www.jettools.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

AWARNINGRead and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

4.0 Specifications

Table 1

| la a la | NA/DO / / OF / |
|---|---|
| Model number | JWBS-14SFX |
| Stock numbers | T. (100) |
| Band Saw with Stand | 714400K |
| Motor and electricals | |
| Motor type | Totally-enclosed fan-cooled induction, capacitor run |
| Horsepower | 1.75 HP (1.3 kW) |
| Motor phase | Single |
| Motor voltage | 115/230 V (prewired 115 V) |
| Cycle | 60 Hz |
| Listed FLA (full load amps) | 15 / 7.5A |
| Start capacitor | 100μF 275VAC |
| Run capacitor | 40μF 450VAC |
| Motor speed | 1720 RPM |
| Starting current | 63 / 34 A |
| Running current (no load) | 5.8 / 3.6 A |
| Power transfer | v-belt |
| On/off switch | Industrial-style push button |
| Power cord and plug | SJT 14AWGx3C, 6ft., 5-15P plug |
| Recommended circuit size ¹ | 20A (for 115V), 15A (for 230V) |
| Sound emission without load ² | 75 dB at 3 ft. (900mm) from blade |
| Capacities and speeds | |
| Band saw nominal size | 14 in. (355 mm) |
| Wheel diameter | 14 in. (355 mm) |
| Resaw capacity (cutting height) | 40 : (000) |
| nesaw capacity (cutting neight) | 13 in. (330 mm) |
| Throat capacity | 13 in. (330 mm) 13-1/2 in. (345 mm) |
| | , |
| Throat capacity | 13-1/2 in. (345 mm) |
| Throat capacity Blade length | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) |
| Throat capacity Blade length Minimum blade width | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) |
| Throat capacity Blade length Minimum blade width Maximum blade width | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand Band wheels | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel Cast iron |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand Band wheels Tires | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel Cast iron Polyurethane |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand Band wheels Tires Blade guides | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel Cast iron Polyurethane Ball bearings, aluminum block |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand Band wheels Tires Blade guides Resaw fence | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel Cast iron Polyurethane Ball bearings, aluminum block Extruded aluminum |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand Band wheels Tires Blade guides Resaw fence Paint finish | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel Cast iron Polyurethane Ball bearings, aluminum block Extruded aluminum Powder coating |
| Throat capacity Blade length Minimum blade width Maximum blade width Blade speed Wheel speed Blade provided Main materials Table Table insert Trunnion Frame Stand Band wheels Tires Blade guides Resaw fence Paint finish Door knobs | 13-1/2 in. (345 mm) 116-1/4 in. (2953 mm) 1/8 in. (3.175 mm) 1 in. (25.5 mm) 15.24 m/s (3000 FPM) 765 RPM Hook type, 116.25" x 5/8" x 0.02" x 4 TPI Ground cast iron Anodized aluminum Cast iron Steel Steel Cast iron Polyurethane Ball bearings, aluminum block Extruded aluminum Powder coating |

¹ Subject to local/national electrical codes.

² The specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is intended to allow the user to make a better estimation of the hazards and risks involved only.

| Table, fence, miter gauge | |
|---|--|
| Table dimensions L x W | 21-1/2 x 17 in. (535 x 435 mm) |
| Table tilt | 0 to 45° Right |
| Table height from floor | 40 in. (1020 mm) |
| Miter T-slot (2), W x D | 3/4 x 13/32 in. (19 x 10 mm) |
| Resaw fence size L x H | 18-1/4 x 6 in. (463 x 155 mm) |
| Miter gauge angle range | 60° R and L |
| Miter gauge positive stops | 0, 45°R, 45°L |
| General dimensions | |
| Overall dimensions, assembled L x W x H (approx.) | 37 x 27-1/2 x 75-3/8 in. (940 x 700 x 1915 mm) |
| Shipping dimensions – L x W x H (approx.) | 63 x 27 x 20 in. (1600 x 685 x 510 mm) |
| Base (Footprint) L x W | 24.8 x 17-3/4 in. (630 x 450 mm) |
| Weights | |
| Net weight (approx.) | 272 lb. (122 kg) |
| Shipping weight (approx.) | 316 lb. (142 kg) |

L = length, W = width, H = height, D = depth

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.

AWARNING Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.

5.0 Setup and assembly

5.1 Shipping contents

See Figures 5-1 and 5-2.

- 1 Stand (not shown)
- 1 Band saw (not shown)
- 1 Table A
- 1 Table insert (preinstalled in table) **B**
- 1 Handle C
- 1 Dust chute D
- 1 Fence body E
- 1 Resaw fence **F**
- 1 Fence rail G
- 4 Rubber feet with hex nut (not shown)
- 4 Hex wrenches, 2.5/4/5/6mm (not shown)
- 1 Operating Instructions and Parts Manual
- 1 Product registration card
- 1 Hardware package (JWBS14SFX-HPN):
 - 4 Socket hd cap screws M8x50 **HP1**
 - 12 Hex cap screws M8x16 **HP2**
 - 4 Socket hd button screws M8x20 HP3
 - 4 Socket hd button screws M5x8 **HP4**
 - 24 Flat washers 8mm HP5
 - 13 Hex nuts 8mm HP6
 - 4 Lock washers 8mm HP7
 - 1 Hex cap screw M8x65 **HP8**

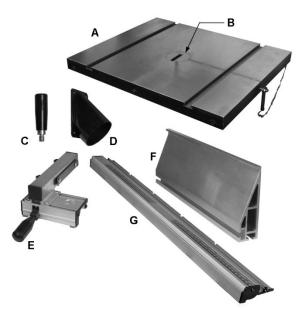


Figure 5-1: contents (not to scale)

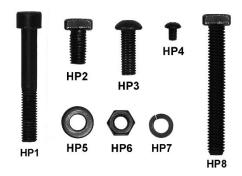


Figure 5-2: hardware package JWBS14SFX-HPN

5.2 Tools required for assembly

(Note: Additional tools may be needed for adjustments.)

5mm, 6mm hex wrenches (provided)

13mm,14mm wrenches

Rubber mallet (or hammer and block of wood)

Straight edge

Measuring tape or gauge

Machinists square (or similar 90° measuring device)

5.3 Unpacking and cleanup

Open boxes and inspect contents. Report any shipping damage or missing parts to your distributor. Do not discard packing material until machine is assembled and running satisfactorily.

The band saw should be located in a dry, well lit area, with enough room to handle long stock and servicing or adjustment of the machine from any side

Clean off any rust-protectant with a mild solvent or kerosene and a soft cloth. Do not use lacquer thinner, paint thinner, or gasoline, as these will damage painted surfaces.

AWARNING Band saw must be disconnected from power source during assembly procedures. Failure to comply may cause serious injury.

5.4 Assembling stand

Assemble stand by referring to exploded view in sect. 13.1.3. Use fasteners HP2/5/6/7 and rubber feet, as shown. Adjust the rubber feet as needed to level the band saw.

Carefully raise the saw using straps with a forklift or hoist, and secure it to the stand with screws and washers HP1/5/7. See Figure 5-3.

5.5 Installing handle

Thread handle (C, Figure 5-1) into front handwheel, and tighten with 13mm wrench on flats.

5.6 Installing dust chute

Mount dust chute (D, Figure 5-3) with four screws (HP4).

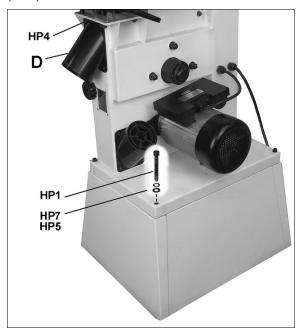


Figure 5-3

5.7 Installing table

Table is heavy; an assistant is recommended.

Position table onto trunnion and line up table to trunnion slots. Insert screws and washers (HP3/5, Figure 5-4). Only hand tighten screws at this time – blade must be installed and table aligned before fully tightening.

Follow all instructions concerning blade installation and adjustment, then proceed with table alignment in *sect.* 5.15.

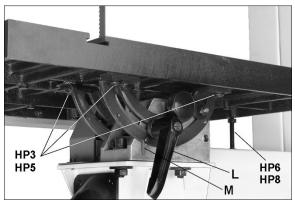


Figure 5-4: table installation

5.8 Installing blade

Note: A blade is not provided with the saw. You may purchase one locally, or from your JET dealer. See *sect. 4.0* for blade requirements of the JWBS-14SFX.

<u>AWARNING</u> Disconnect machine from power source before installing blade.

Mear gloves when handling blades. New blades are usually packaged in coiled position; to prevent injury uncoil them slowly and carefully while wearing work gloves and safety glasses.

- 1. Disconnect band saw from power source.
- 2. Pull table pin (K, Figure 5-5) out of its slot, and remove table insert (B).

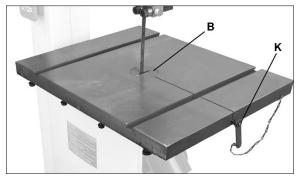


Figure 5-5: table and guide rail installation

- 3. Back off upper and lower blade guides to allow gap for blade insertion (see sect. 5.12 through 5.14).
- 4. Raise quick tension lever (see D, Figure 5-7) to release position. If needed, rotate tension handwheel (E, Figure 5-7) counterclockwise for further detensioning.
- Open upper and lower doors by rotating door knobs.
- 6. Remove dust block (C, Figure 5-6).

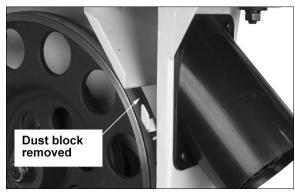


Figure 5-6

- Guide blade through table slot. Place blade loosely in upper and lower blade guides. Make sure blade teeth point down toward table, and toward front of saw.
 - (If the teeth will not point down, no matter how the blade is oriented, then blade is inside-out. Twist it into correct orientation and re-install it.)
- Position blade at center of upper and lower wheels.

- Reinstall dust block, table insert and table pin. (The table pin prevents deflection of table along blade slot.)
- 10. Before operating band saw, the new blade must be tensioned and tracked, in that order. Refer to sect. 5.9 and 5.10.
- 11. The blade guides must also be set properly according to instructions in *sect.* 7.7 through 7.10.

5.9 Blade tension

Refer to Figures 5-7 and 5-8.

Blade tension should be checked following blade replacement, and periodically as the blade stretches from use.

- 1. Lower tension lever (D, Figure 5-7) to tension position.
- 2. Set proper blade tension by rotating handwheel (E, Figure 5-7), clockwise to tighten, counterclockwise to loosen.
- The gauge (F, Figure 5-8) indicates approximate tension according to blade width in inches. Initially, set blade tension to correspond to width of blade. As you become familiar with the saw, you may find it necessary to alter blade tension from the initial setting.

Keep in mind that too little or too much blade tension can cause blade breakage and/or poor cutting performance.

Tip: When the band saw is not being used, raise tension lever (D) to *release* position – this will prolong the life of blade and tires.

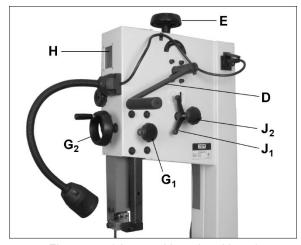


Figure 5-7 (shown with optional lamp)

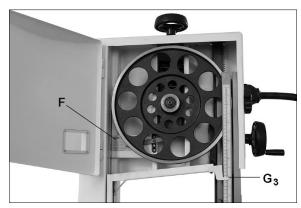


Figure 5-8

5.10 Blade tracking

Refer to Figures 5-7 and 5-8.

After proper tensioning, the blade must be tracked. "Tracking" refers to position of blade on the wheels while machine is in operation. Tracking should be checked periodically, and is mandatory after every blade change. Blade tracking is done initially by hand with machine disconnected from power.

- 1. Disconnect band saw from power source.
- 2. Blade must be correctly tensioned (sect. 5.9). Lower blade tension lever to tension position.
- 3. Back off blade guides so they will not interfere with blade movement.
- Loosen guide post locking knob (G₁, Figure 5-7) and use handwheel (G₂) to lower guide post until you can see blade through tracking window (H).
- 5. Open upper door to expose wheel.
- 6. Rotate wheel by hand, observing position of blade through tracking window. The blade should ride approximately at center of tire (Figure 5-9).

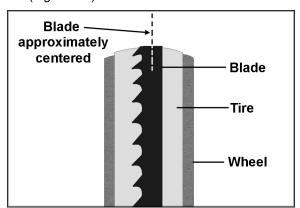


Figure 5-9

7. If blade tends to migrate toward left or right edge of wheel, loosen locking handle (J₁, Figure 5-7) counterclockwise, and rotate tracking knob (J₂) with your right hand while continuing to rotate wheel with your left.

IMPORTANT: This adjustment is sensitive; perform in small increments and give blade time to react to changes.

- 8. When blade is tracking near approximate center of wheel, tighten locking handle (J₁), and close upper door.
- 9. Connect saw to power and turn it on to observe blade in action through tracking window. Make further adjustments as needed.

5.11 Blade guides overview

Thrust (back support) bearings are located behind saw blade and provide support to back of blade when saw is in operation.

Guide bearings are located on either side of saw blade and provide stability for blade when saw is in operation. These bearings rotate on an eccentric shaft so distance from blade can be adjusted for optimal performance.

5.12 Upper blade guides

Blade teeth are sharp; use care when working near saw blade.

The guide bearings should be set so that contact between blade and guides will occur only when blade is under pressure from a workpiece. To adjust upper bearing guides for proper blade control, proceed as follows.

Refer to Figures 5-10 and 5-11.

- 1. Disconnect band saw from power source.
- 2. Blade must already be tensioned and tracking correctly. See *sect. 5.9* and *5.10*.

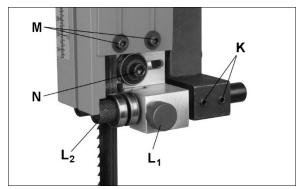


Figure 5-10: blade guide adjustment

- 3. Place quick tension handle in *tension* position.
- 4. Loosen two set screws (K, Figure 5-10) with 3mm hex wrench, and slide entire guide bracket until front of guide bearings are about 0.015" (1/64") behind blade gullet (curved area at base of tooth). See Figure 5-11.

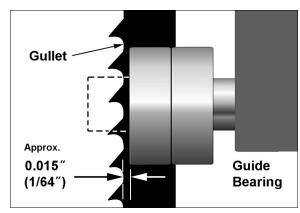


Figure 5-11: guide bearing position

- 5. Tighten set screws (K, Figure 5-10).
- 6. Loosen lock knob (L_1) for either of the front guide bearings.
- 7. The guide bearing rotates on an eccentric shaft. Adjust guide bearing by rotating knurled knob (L₂) until guide bearing is almost touching blade.

Tip: This blade-to-bearing gap can be quickly set by inserting a business card, or dollar bill folded twice (4 thicknesses), between them then allowing the guide bearing to *lightly* contact the card/bill.

against side of blade. Overtightening will reduce bearing life. Guide bearings should not rotate when saw is running without a workpiece; they will generally only make contact with blade when there is pressure from the cutting operation.

- 8. Tighten lock knob (L₁).
- 9. Repeat process for opposite guide bearing.

5.13 Upper thrust bearing

ACAUTION Blade teeth are sharp; use care when working near saw blade.

Refer to Figure 5-10.

The thrust bearing prevents backward deflection of blade during cutting.

- 1. Disconnect band saw from power source.
- Loosen screws (M, Figure 5-10) with 3mm hex wrench and raise guard plate to expose thrust bearing.
- Loosen screw (N) with 5mm hex wrench, and slide thrust bearing until it almost touches back of blade. (This blade-to-bearing gap can be set in similar fashion as the side guides, with business card or dollar bill.)

NOTE: On narrow blades, it may be preferable to set thrust bearing in actual contact with blade.

- 4. Tighten screw (N).
- 5. Lower guard plate (M) and tighten in place.
- Make sure all screws and lock knobs on upper guide bearing assembly are tightened when adjustments are complete.

5.14 Lower blade guides

ACAUTION Blade teeth are sharp; use care when working near saw blade.

Refer to Figures 5-12 and 5-13.

- 1. Disconnect band saw from power source.
- 2. Open lower door.
- 3. Adjust lower guide bearings and lower thrust bearing below table in similar manner to that of upper guide and thrust bearings.

Movement summary: Loosen screws on guide bracket (P) to adjust bearing assembly (refer to Figure 5-11). Loosen screws (R) and rotate eccentric guide bearings in relation to blade. The thrust bearing is moved forward and backward by loosening set screw (S) with 4mm hex wrench and rotating knob (T). Retighten set screw (S) to secure position.

4. Make sure all knobs and screws are tightened after adjustments are complete.



Figure 5-12: lower blade guides (NOTE: right bearing guard removed for clarity – removal not necessary for adjustment.)

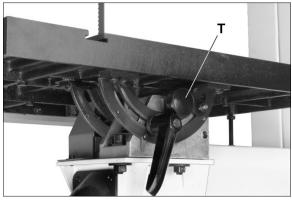


Figure 5-13: lower blade guides

5.15 Aligning table

The table must be adjusted so that:

- Blade runs through center of table insert.
- Table is aligned with blade.
- Table is square to blade at 90° scale reading.
- 1. Disconnect band saw from power source.
- 2. The table screws should still be only hand tight.
- 3. Lower blade tension lever (see D, Figure 5-7) to tension position.
- Install table insert (B, Figure 5-5). Blade should be positioned at center of insert opening. If it is not, nudge table left or right as needed to center it.

Table must now be aligned with blade, and surface set square to blade at 90° scale reading, as follows.

5.15.1 Table-to-blade alignment

 With blade tension lever in tension position, place a long straightedge flush against blade, making sure it evenly contacts both front and back of blade. See Figure 5-14. Do not deflect blade by pushing into it.

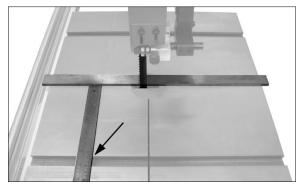


Figure 5-14

- Use a gauge (Figure 5-14) to carefully measure distance from miter slot edge to straight edge. Take measurements at both front and back of table – these should be identical.
- 7. If miter slot is not parallel to blade, nudge table with rubber mallet in the needed direction.
- 8. When parallelism is achieved (and blade is still centered through table insert), securely tighten the four trunnion screws (HP3, Figure 5-15).

5.15.2 **Table-to-blade squaring and 90°** stop

- 9. Insert stop screw with nut (see HP6/8, Figure 5-15) into threaded hole in table.
- 10. Set a square on table top and against blade, as shown in Figure 5-16.
- Loosen lock handle (L) and manually tilt table until table and blade are square.
- 12. Tighten lock handle (L).

- 13. Turn stop screw (HP6) until it contacts saw frame, and tighten hex nut (HP8) against table.
- If needed, loosen screw and move pointer (M, Figure 5-15) to align with zero on scale. Retighten screw.

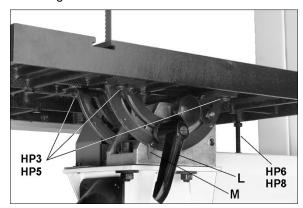


Figure 5-15: table alignments

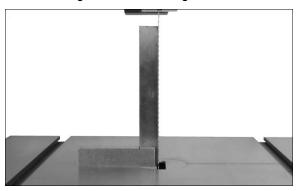


Figure 5-16 squaring table to blade

5.16 Installing guide rail and fence

- 1. Partially install four hex cap screws with washers (HP2/5, Figure 5-17) into threaded holes beneath front table edge. Leave gap between table and screw head.
- 2. Slide fence rail onto screws and against table, as shown in Figure 5-17. Tighten screws.

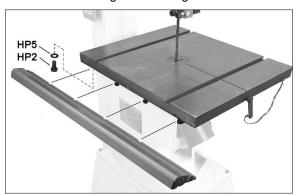


Figure 5-17

4. Slide fence body onto end of guide rail (Figure 5-18) and push down handle to lock fence body to rail. There should be an even gap between table surface and the length of fence body.

- 5. If adjustment is needed, use the set screws which are located next to the fence body screws (E₃, Figure 5-19). Loosen the four screws (E₃) and turn any of the four adjoining set screws in or out as needed, until fence is flat against blade.
- 6. Tighten screws (E₃).

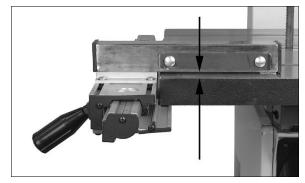


Figure 5-18

7. Loosen handles (E1, Figure 5-19) and slide fence onto bar. Tighten handles (E1).

5.16.1 Fence to miter slot alignment

- Slide fence against edge of miter slot (Figure 5-19) and push down handle (E₂) to lock position. The fence should align parallel to miter slot along entire length of fence.
- 9. If adjustment is needed, loosen four screws (E₃, Figure 5-19) and shift fence body as needed to align fence with miter slot.
- 10. Tighten screws (E₃).

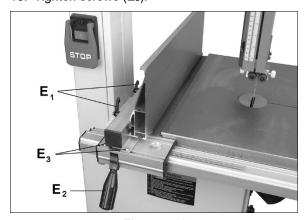


Figure 5-19

5.16.2 Fence to blade alignment

- 11. Set table at 90° to blade and lock in position.
- 12. Move fence against blade (do not deflect blade by pushing into it). See Figure 5-20.
- 13. Verify that fence, top-to-bottom, lies flat against side of blade. If it does not, use the set screws which are located next to the fence body screws (E₃, Figure 5-19). Loosen the four screws (E₃) and turn any of the four adjoining set screws in or out as needed, until fence is flat against blade.

14. Tighten the four screws (E₃).

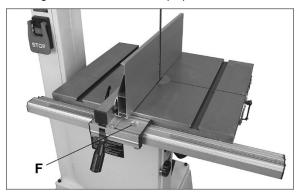


Figure 5-20

5.16.3 Cursor alignment

- 3. With fence against blade, verify that cursor (F, Figure 5-20) aligns with zero on scale.
- 4. If adjustment is needed, loosen the four screws (E₃, Figure 5-19) on the fence body and nudge fence body left or right along the tracks in the fence guide, until cursor aligns with zero when fence is against blade.
- 5. Tighten the four screws (E₃).

5.17 Dust collection

It is strongly recommended that a dust collection system (not provided) be connected to the two 4-inch diameter ports on the saw. It will help keep the shop clean, as well as prevent potential health hazards due to air-borne wood dust. See our website for a full line of dust collectors.

6.0 Electrical connections

AWARNING Electrical connections must be made by a qualified electrician in compliance with all relevant codes. This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

6.1 GROUNDING INSTRUCTIONS

1. All Grounded, Cord-connected Tools:

This machine must be grounded. 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.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

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.

Before connecting to power source, be sure the switch is in *off* position.

electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Failure to comply may cause serious or fatal injury.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating **less than 150** volts:

This tool is intended for use on a nominal 115-V circuit, and has a grounded plug that looks like the plug illustrated in sketch A in Figure 6-1. A temporary adaptor that looks like the adaptor illustrated in sketches B and C may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.

In Canada, the use of a temporary adaptor is not permitted by the Canadian Electrical Code, C22.1.

3. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating between **150 - 250 volts.** inclusive:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in **D**, Figure 6-1. The tool is intended to be used with a grounding plug that looks like the plug illustrated in **D**. Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this tool. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the tool should comply with all local codes and ordinances.

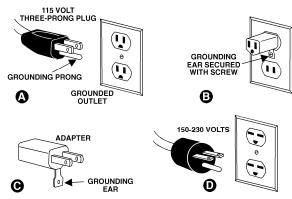


Figure 6-1

6.2 Voltage conversion

To convert the JWBS-14SFX from 115V to 230V, single phase operation:

- 1. Disconnect band saw from power; unplug.
- Switch the lead wires inside motor junction box, according to diagram affixed to inside of junction box cover.
- Disconnect the 110V electrical socket at rear of saw frame. This socket will not be used when the band saw is drawing 230V power.
- 4. The 5-15P attachment plug supplied with the band saw must be replaced with a UL/CSA listed plug suitable for 230V operation.

6.3 Extension cords

The use of extension cords is discouraged; try to position your machine within reach of the power supply. If an extension cord becomes necessary, make sure the cord rating is suitable for the amperage listed on the machine's motor plate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Use Table 2 as a general guide in choosing the correct size cord. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Recommended Gauges (AWG) of Extension Cords

| Amper Rating | | Volts | | l lengtl in feet | | |
|-----------------|-------------|------------|----------|---------------------|---------------|------------|
| More | Not More | 120 240 | 25 50 | 50 100 | 100 200 | 150 300 |
| Than | Than | | | | AWG | |
| 0 | 6 | | 18 | 16 | 16 | 14 |
| 6 | 10 | | 18 | 16 | 14 | 12 |
| 10 | 12 | | 16 | 16 | 14 | 12 |
| 12 | 16 | | 14 | 12 | Not Recomi | mended |

Table 2

7.0 Adjustments

7.1 Resaw fence

Refer to Figure 7-1.

The fence can be installed in one of two positions; vertical (resaw position) or horizontal. Horizontal position is useful for small or thin workpieces, and allows blade guide to be lowered without interference from fence. Zero setting of cursor cannot be used with horizontal fence position.

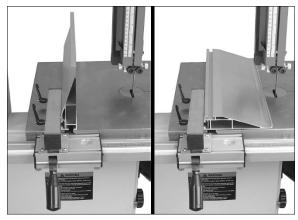


Figure 7-1: fence positions

7.2 Miter gauge (optional accessory)

Refer to Figure 7-2.

- Slide miter gauge (not included, optional accessory) into table slot from front edge of table.
- Loosen knobs (A₁) and install miter fence (A₂) onto gauge body. Position fence as needed and tighten knobs.
- 3. Loosen handle (A₃), pull out pin (A₄), and rotate body to desired angle. Tighten handle.

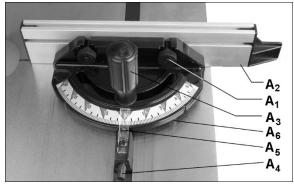


Figure 7-2: miter gauge adjustments

7.2.1 Setting positive stops

The miter gauge has positive stops at 0 (90°), and 45° left and right, located beneath the gauge body.

4. Use a square to verify that miter fence is square to blade when set at 90° on scale

- If miter gauge is not square to blade, loosen handle (A₃) and adjust until square. Tighten handle.
- Verify that pointer (A₅) shows 90°. If it does not, loosen screw and shift pointer to 90°. Tighten screw.
- Adjust a stop if needed by loosening hex nut and rotating screw (A₆). Retighten nut.

The top channel on miter fence will accommodate accessory items, such as hold-downs. Remove end cap and install t-bolts into the channel.

7.3 **Table tilt**

Refer to Figure 7-3.

- 1. Loosen lock handle (B, Figure 7-3).
- 2. Tilt table up to 45 degrees to right (as viewed from operator side).
- 3. Tighten lock handle (B).

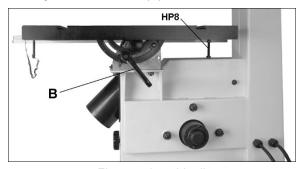


Figure 7-3: table tilt

7.4 Guide post

- 1. Loosen lock knob (see G_1 , Figure 5-7) and raise or lower guide post using handwheel (G_2 , Figure 5-7).
- 2. Position blade guide assembly so that bottom of guide bearing assembly is about 3/16-inch above material to be cut. The scale pointer (G₃, Figure 5-8) indicates height of guide assembly from table. This provides minimal clearance between workpiece and bottom of guide bearings, which minimizes blade deflection and enhances operator safety.
- 3. Tighten lock knob (G₁, Figure 5-7).

7.5 Drive belt adjustments

The drive belt and pulleys are properly adjusted by the manufacturer. However, belt tension should be occasionally checked when the band saw is new, as a new belt may stretch slightly during the breakingin process.

7.5.1 Drive belt tension

Check tension by pushing with moderate pressure on belt halfway between pulleys. An adequately tensioned belt will deflect about 1/2-inch.

7.5.2 Drive belt replacement

AWARNING Disconnect machine from power source before replacing drive belt.

If belt becomes worn, cracked, frayed or glazed, it should be replaced as follows:

- 1. Disconnect band saw from power source.
- 2. Open upper and lower doors and remove blade.
- Loosen motor plate screws (A, Figure 7-4). If needed, slightly loosen pivot screw (B). Lift motor upward to remove tension on belt, and tighten screws (A) to hold motor in raised position.

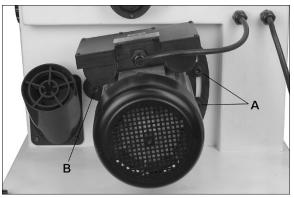


Figure 7-4

- 4. Open lower wheel door. Remove nut and washer, and remove blade wheel. If lower wheel cannot be easily removed, you may need to use a wheel puller to remove it.
- 5. Remove old belt from pulleys and install new belt, making sure it seats properly in pulley grooves.
- Check pulley alignment. To align, loosen set screws in pulley and slide to adjust. Retighten set screws.
- 7. Reinstall lower blade wheel, washer, and nut, and tighten securely.
- 8. Loosen motor plate screws (A) and allow motor to lower, tensioning the belt. Tighten screws (A).
- 9. Install blade, and verify blade tension and tracking before operating (sect 5.9 and 5.10).

7.6 Wheel brush

An adjustable brush is located in lower wheel housing. It should remain in constant contact with blade and wheel to prevent buildup of gum and debris. Loosen nut to adjust angle if needed.

8.0 Operating controls

8.1 Start/stop switch

Press green button to start. Press red paddle button to stop.

ACAUTION If a power outage occurs, band saw will resume action instantly upon power restoration. If outage occurs, immediately press stop button.

8.1.1 Switch lockout

A hole near the start button will accept a safety padlock, as shown in Figure 8-1. To safeguard your machine from unauthorized operation and accidental starting by young children, the use of a padlock (not provided) is highly recommended. Place the key in a location that is inaccessible to children and others not qualified to use the tool.

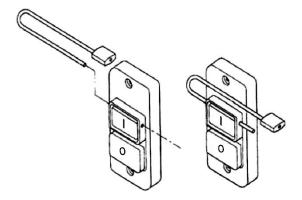


Figure 8-1: switch lockout

9.0 **Operation**

The following section contains basic information, and is not intended to cover all possible applications or techniques using the band saw. Consult published sources of information, acquire formal training, and/or talk to experienced band saw users to gain proficiency and knowledge of band saw operations.

The following figures are general in nature and may not show your specific model.

9.1 General procedure

- Make sure the blade and upper and lower bearings are properly adjusted for tension and tracking.
- 2. Adjust blade guide assembly so that the guide bearings are just above workpiece (about 3/16") allowing minimum exposure to blade. See Figure 9-1.
- If using the fence, move it into position and lock it to the guide rail. If you are using the miter gauge for a crosscut, the fence should be moved safely out of the way.

 Turn on band saw and allow a few seconds for the machine to reach full speed.

AWARNING Whenever possible, use a push stick, hold-down, power feeder, jig, or similar device while feeding stock, to prevent your hands getting too close to the blade.

Place the straightest edge of the workpiece against the fence, and push the workpiece slowly into the blade. Do not force the workpiece into the blade.

Men cutting, do not overfeed the blade; overfeeding will reduce blade life and may cause the blade to break.

6. When cutting long stock, the operator should use roller stands, support tables, or an assistant to help stabilize the workpiece.

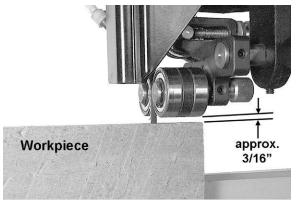


Figure 9-1

9.2 Ripping

Ripping is cutting lengthwise through the workpiece, along the grain (of wood stock). See Figure 9-2.

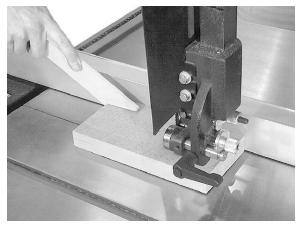


Figure 9-2: ripping

9.3 Crosscutting

Crosscutting is cutting across the grain of the workpiece, while using the miter gauge to feed the workpiece into the blade.

Slide the bar of the miter gauge into the end of the slot on the table.

The right hand should hold the workpiece steady against the miter gauge, while the left hand pushes the miter gauge past the blade, as shown in Figure 9-3.

Do not use the fence in conjunction with the miter gauge. The offcut of the workpiece must not be constrained during or after the cutting process.

With the miter gauge can cause binding and possible damage to the blade.

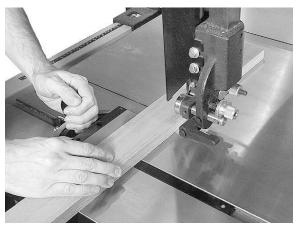


Figure 9-3: crosscutting

9.4 Resawing

Resawing is the process of slicing stock to reduce its thickness, or to produce boards that are thinner than the original workpiece. See Figure 9-4.

The ideal blade for resawing is the widest one the machine can handle, as the wider the blade the better it can hold a straight line.

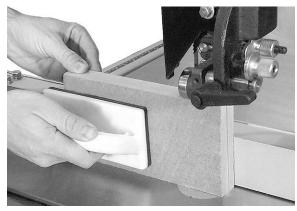


Figure 9-4: resawing

When resawing thin stock, use a push block, push stick, or similar device to keep your hands away from the blade.

9.5 Blade lead

Blade lead, or drift, is when the blade begins to wander off the cutting line even when the band saw fence is being used. Figure 9-5 shows an example of blade lead. It is more common with small, narrow blades, and is almost always attributable to poor blade quality, or lack of proper adjustments. Inspect the band saw for the following:

- Fence not parallel to miter slot and blade.
- · Blade not tensioned correctly.
- Blade is dull.
- Teeth have excessive "set" on one side of blade.
- · Workpiece being fed too quickly.

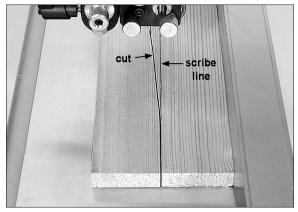


Figure 9-5: blade lead

9.6 Saw blade selection

Using the proper blade for the job will increase the operating efficiency of your band saw, help reduce necessary saw maintenance, and improve your productivity. Thus, it is important to follow certain guidelines when selecting a saw blade.

Here are factors to consider when selecting a blade:

- The type of material you will be cutting.
- ☐ The thickness of the material.
- ☐ The features of the material, such as bends or curves with small radii.

These factors are important because they involve basic concepts of saw blade design. There are five (5) blade features that are normally changed to meet certain sawing requirements. They are:

- 1. widtl
- 2. pitch (number of teeth per inch)
- 3. tooth form (or shape)
- 4. the "set" of the teeth
- the blade material itself.

9.7 **Width**

Band saw blades come in different standard widths, measured from the back of the blade to the tip of the tooth. Generally, wider blades are used for ripping or making straight cuts; narrower blades are often used when the part being cut has curves with small radii. When cutting straight lines with a narrow blade, the blade may have a tendency to wander, causing blade lead. (refer to sect. 9.5).

9.8 Pitch

Pitch is measured in "teeth per inch" (TPI). Figure 9-6 shows blades with different pitches. A fine pitch (more teeth per inch) will cut more slowly but smoother. A coarse pitch (fewer teeth per inch) will cut rougher but faster. As a rule of thumb, the thicker the workpiece, the coarser will be the blade pitch. If you cut a hard or very brittle material, you may want to use a blade with a finer pitch in order to get clean cuts.

General rule: Use a blade that will have no fewer than 6 and no more than 12 teeth in the workpiece at any given time.

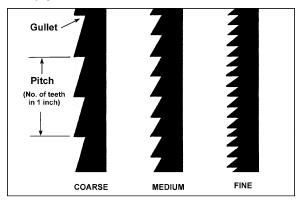


Figure 9-6: blade pitch

9.9 **Shape**

Figure 9-7 shows common types of tooth shape. Tooth shape has an effect on cutting rate, and with few exceptions, the Skip and Hook types are used to obtain higher feed rates when cutting thick workpieces. Variable-tooth blades are also available, which combine features of the other styles.

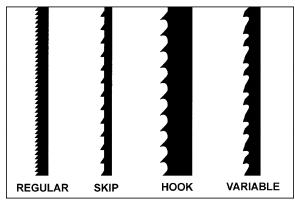


Figure 9-7: blade shape

9.10 **Set**

The term "set" refers to the way in which the saw teeth are bent or positioned. Set patterns are usually selected depending on the type of material that needs to be cut. Three common set patterns are shown in Figure 9-8.

Generally, the *Raker* set is used for cutting metal workpieces; the *Wave* set, when the thickness of the workpiece changes, such as cutting hollow tubing or structurals. The *Straight* set is most often preferred when cutting wood or plastics.

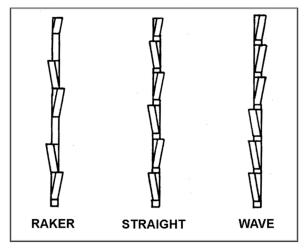


Figure 9-8: blade set

9.11 Material

Band saw blades can be made from different types of materials. Some of the most common include spring steel, carbon steel, carbon steel equipped with a high speed or welded edge (bi-metal), or carbide tips. A special type of saw blade is made from "high speed steel"; these should not be used on band saws with low rates of speed.

Because of the importance of blade selection, it is recommended that you use the *Blade Selection Guide* in *sect. 11.0*.

9.12 Blade breakage

Band saw blades are subject to high stresses and breakage may sometimes be unavoidable. However, many factors can be controlled to help prevent most blade breakage. Here are some common causes for breakage:

- Misalignment of blade guides
- 2. Feeding work too fast
- 3. Using a wide blade to cut a short radius curve
- 4. Excessive tension
- Teeth are dull or improperly set
- 6. Upper guides are set too high off workpiece
- 7. Faulty weld on blade

10.0 User-maintenance

AWARNING

Before any intervention on the machine, disconnect it from electrical supply by pulling out the plug. Failure to comply may cause serious injury.

Clean band saw regularly to remove any resinous deposits and sawdust.

Keep miter slot and guide bearings clean and free of resin.

Keep blade clean and sharp. Check it periodically for cracks or other signs of wear.

The drive belt should be checked periodically. If it looks worn, frayed, glazed or otherwise damaged, replace it.

Check that the cleaning brush over the band wheel is working properly, and remove any deposits from the band wheels to avoid vibration and blade breakage.

Do not allow saw dust to build up in the upper and lower wheel housings. Vacuum or blow out dust from inside cabinet. (Use proper dust mask equipment).

The table surface must be kept clean and free of rust for best results. If rust appears, it can often be removed with a mixture of household ammonia, good commercial detergent and #000 steel wool. Alternatively, commercial rust removers can be found at many hardware stores.

Periodically apply a light coat of paste wax or other non-silicone protectant to the table surface. Select a product that will protect the metal and provide a smooth surface, without staining workpieces.

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

Connect the band saw to a dust collection system of appropriate capacity. (See our website for a full line of JET dust collectors.)

Periodically vacuum out the motor fan cover.

10.1 Lubrication points

- 1. Periodically apply a light, multi-purpose grease to the following:
 - Rack and pinion system of guide post.
 - Sliding surfaces of table trunnions.
- 2. Oil any pins, shafts, and joints. (Do not get oil on pulleys or belts.)
- 3. Clean and oil the blade tension mechanism if it becomes difficult to adjust.

Note: Bearings on the band saw are pre-lubricated and sealed, and do not require attention.

10.2 Additional servicing

Any other servicing should be performed by an authorized service representative.

11.0 Blade Selection Guide

Table 3

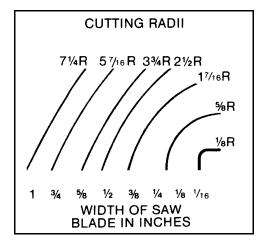
Identify the material and thickness of your workpiece. The chart will show the recommended PITCH, blade TYPE, and FEED RATE.

Example: 10/H/M means 10 teeth per inch / Hook Type Blade / Medium Feed

| NA | aterial/s | , | Workpiece | Thickness | 3 |
|----------|-------------|--------|-----------|-----------|-------|
| IVI | ateriai/s | 1/2" | 1" | 3" | 6+" |
| Woods | Hardwood | 10/R/L | 8/R/L | 3/H/M | 3/H/M |
| VVOOds | Softwood | 10/R/L | 8/R/L | 3/H/M | 3/H/M |
| | Carbon | 10/R/L | 6/R/L | 3/S/M | 3/S/M |
| Non- | Mica | 32/R/L | | | |
| Metals | Asbestos | 8/R/L | 6/R/L | 3/S/M | 3/S/M |
| | Hard Rubber | 10/R/L | 8/R/L | 6/R/M | 2/S/H |
| | Formica | 14/R/M | 10/R/M | 4/H/H | 4/H/H |
| | Masonite | 10/R/L | 4/S/L | 3/S/M | 3/H/M |
| Plastics | Micarta | 14/R/M | 10/R/M | 4/H/H | 3/H/H |
| | Plexiglas | 10/R/L | 6/R/L | 3/S/M | 3/S/M |
| | Paper | 14/R/L | 10/R/L | 4/S/L | 3/S/M |

Study the part drawing or prototype, or actually measure the smallest cutting radius required, and locate this radius (in inches) on the chart at the right. Follow the curve to where the approximate blade width is specified. If a radius falls between two of the curves, select the widest blade that will saw this radius.

This procedure should be used for making initial blade selections. These recommendations can, of course, be adjusted to meet specific requirements of a cutting job. Compromises may be necessary if you cannot find all needed specifications in a single blade.



12.0 Troubleshooting JWBS-14SFX Band Saw

12.1 **Operational problems**

Table 4

| Symptom | Probable Cause | Correction |
|--------------------------------------|--|---|
| Table tilt does not hold | Lock handle not tight. | Tighten lock handle. |
| position under load. | Trunnion locking mechanism is broken or worn. | Replace trunnion locking mechanism. |
| Table will not tilt. | Trunnion not lubricated. | Lubricate trunnion. |
| | Trunnion jammed. | Disassemble and replace jammed parts. |
| Table vibration while sawing. | Band saw on uneven floor. | Place machine on level surface; use shims if needed. |
| | Loose fasteners. | Inspect and tighten screws, nuts, etc. |
| | Drive belt too slack. | Increase tension on drive belt. Replace belt if worn. |
| | Incorrect choice of saw blade pitch. | Check blade selection chart and use correct blade. |
| | Saw dust or debris on band wheel. Or tire is worn/damaged. | Keep band wheels clean. Replace tires if necessary. |
| Surface finish on | Blade pitch too coarse. | Change to finer pitch blade. |
| workpiece is rough. | Workpiece being fed too strongly. | Reduce feed force. |
| Blade cutting | Gum or pitch on blade. | Clean blade. |
| inaccurately. Cuts not | Worn blade teeth or damaged blade. | Replace blade. |
| straight. | Fence not parallel to blade. | Align fence properly. |
| | Incorrect adjustment of blade guides. | Adjust blade guides properly. |
| | Workpiece being fed too strongly. | Reduce feed force. |
| | Upper blade guides not located close enough to workpiece. | Position guides about 3/16" above workpiece. |
| | Incorrect choice of saw blade for that particular operation. | Install correct blade. |
| | Blade tension too light. | Increase tension. |
| Blade cannot be tensioned properly. | Tension spring is fatigued. | Replace tension spring (contact JET service representative). |
| Blade binds in workpiece. | Incorrect blade tension or damaged blade. | Correct accordingly. |
| | Blade too wide for desired radius. | Select narrower blade. |
| Blade forms cracks at base of teeth. | Teeth not suitable for operation, or incorrectly set. | Replace with proper blade. |
| | Blade thickness not suitable for band wheel diameter. | Replace with proper thickness blade. |
| | Blade sharpened incorrectly, becomes overheated. | Sharpen blade properly or replace. |
| | Band wheels have become misaligned. | Contact JET service representative. |
| Cracks on back edge of blade. | Workpiece being fed too quickly. | Reduce feed speed to lessen strain on blade. |
| | Welding on blade not perfectly aligned. | Eliminate welded part, and re-weld properly; or acquire a new blade. Round (i.e. "stone") the back edge of a new blade. |
| | Thrust bearing is worn; caused by constant contact with back of blade. | Replace thrust bearing. Adjust new bearing according to instructions. |

| Symptom | Probable Cause | Correction |
|---------------------------------|--|---|
| Blade breaks | Feed force too great. | Reduce feed force. |
| prematurely. | Blade pitch too coarse. | Refer to blade selection chart; use finer pitch blade. |
| | Guide bearings not properly supporting blade. | Check guide bearings for correct position and signs of wear. Adjust or replace as needed. |
| | Blade tensioned too tightly. | Reduce tension. |
| Blade breaks close to weld. | Blade overheated during welding. | Have blade annealed, or eliminate brittle part and weld correctly. |
| | Blade cooled too rapidly after welding. | Have blade annealed, or eliminate brittle part and weld correctly. |
| Premature dulling of saw teeth. | Blade pitch too fine. | Refer to blade selection chart. Use blade with coarser pitch. |
| | Feed pressure too light. | Increase feed pressure. |
| | Cutting rate too low. | Increase feed pressure and cutting rate. |
| | Incorrect choice of blade. | Re-examine material. Select proper blade from chart. |
| | Chipped tooth or foreign object lodged in cut. | Stop saw and remove lodged particle. Replace blade if damaged. |

12.2 Mechanical and electrical problems

Table 5

| Symptom | Probable Cause | Correction * |
|--|---|---|
| Machine will not | No incoming power. | Verify machine connections. |
| start/restart or | Cord damaged. | Replace cord. |
| repeatedly trips circuit breaker or blows fuses. | Band Saw frequently trips. | One cause of overloading trips which are not electrical in nature is too heavy a cut. The solution is to reduce feed pressure into the blade. If this does not resolve the issue, check for a loose electrical lead. |
| | Building circuit breaker trips or fuse blows. | Verify that band saw is on a circuit of correct size. If circuit size is correct, there is probably a loose electrical lead. |
| | Switch or motor failure (how to distinguish). | If you have access to a voltmeter, you can separate a switch failure from a motor failure by first, verifying incoming voltage at 115 +/-10% (or 230+/-10%) and second, checking the voltage between switch and motor at 115 +/-10% (or 230+/-10%). If incoming voltage is incorrect, you have a power supply problem. If voltage between switch and motor is incorrect, you have a switch problem. If voltage between switch and motor is correct, you have a motor problem. |
| | Motor overheated. | Clean motor of dust or debris to allow proper air circulation. Allow motor to cool down before restarting. |
| | Motor failure. | Have a qualified electrician or motor repair shop test the motor for function. |
| | Miswiring of unit. | Double check to confirm all electrical connections are correct. Refer to wiring diagram to make needed corrections. |
| | Switch failure. | If the start/stop switch is suspect, you have two options: Have a qualified electrician test the switch for function, or purchase a new start/stop switch and establish if that was the problem on change-out. |
| Band Saw does not attain full speed. | Extension cord too light or too long. | Replace with adequate size and length cord. |
| | Low current. | Contact a qualified electrician. |
| | Motor failure. | Have a qualified electrician or motor repair shop test the motor for function. |

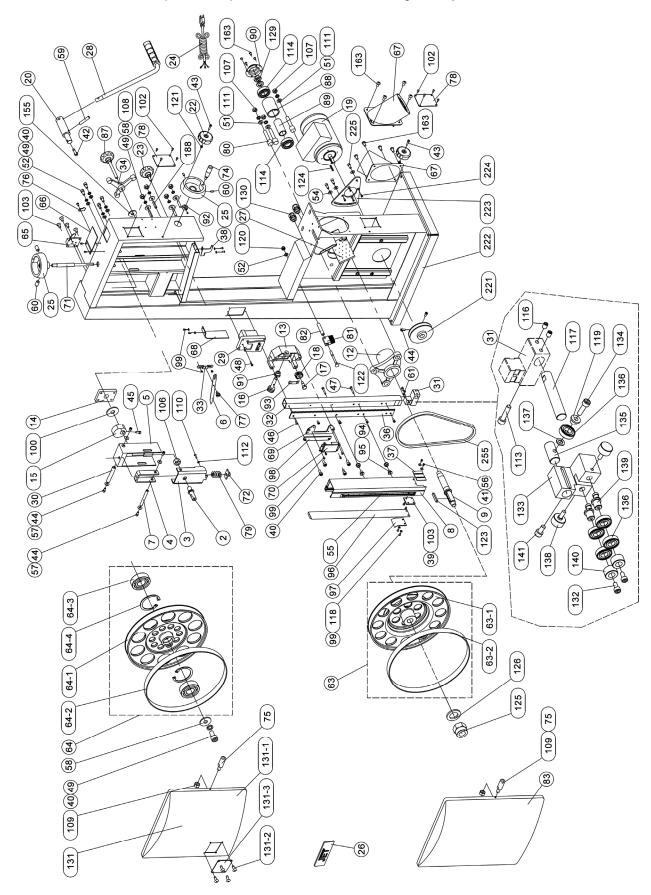
^{*} **WARNING:** Some corrections may require a qualified electrician.

13.0 Replacement Parts

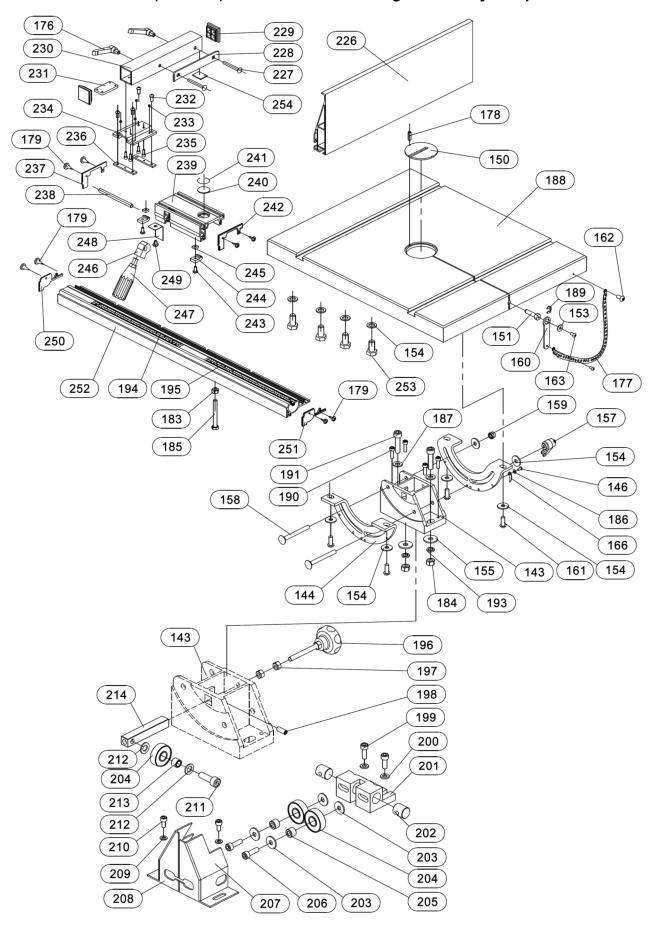
Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from JET. Some parts are shown for reference only, and may not be available individually.

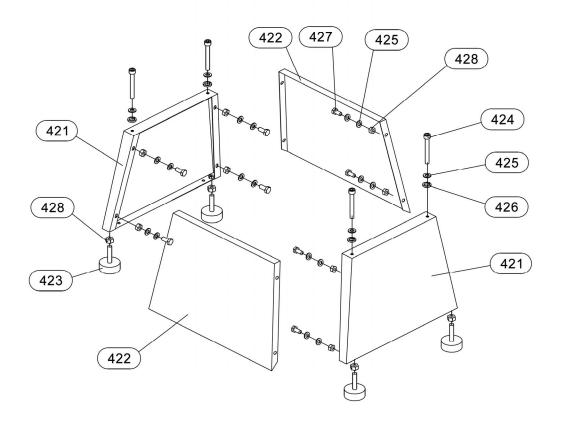
13.1.1 JWBS-14SFX (#714401) - Band Saw Assembly - Exploded View



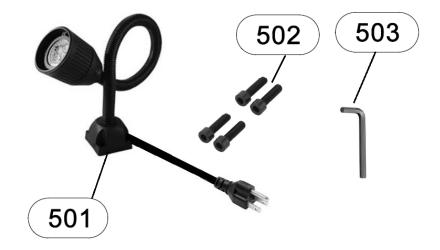
13.1.2 JWBS-14SFX (#714401) - Table and Miter Gauge Assembly - Exploded View



13.1.3 JWBS-14SFX (#714402) - Band Saw Stand Assembly - Exploded View

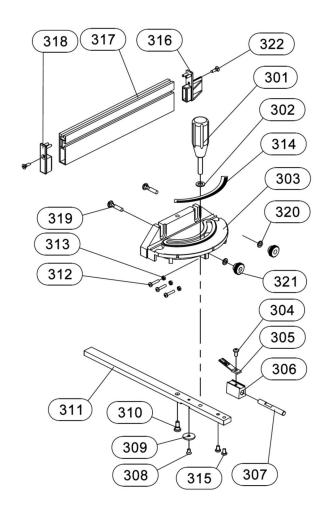


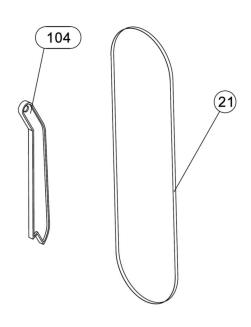
13.1.4 JWBS-14LIT (#714403) - Band Saw Light Kit * - Exploded View



^{*} Optional Accessory – see your dealer to order.

13.1.5 JWBS-14SFX (#714401) - Miter Gauge Assembly* - Exploded View





^{*} Optional Accessory – see your dealer to order.

13.1.6 JWBS-14SFX Band Saw (#714401) - Parts List

| Index No | Part No | Description | Size | Qty |
|----------|-----------------|---------------------------------------|----------------------|-----|
| 002 | JWBS14SFX-002 | . Upper Wheel Shaft | | 1 |
| 003 | JWBS14SFX-003 | . Upper Wheel Axis Seat | | 1 |
| | | . U-Bracket | | |
| | | . Guide Plate | | |
| 006 | JWBS14SFX-006 | . Tension Pointer | | 1 |
| 007 | JWBS14SFX-007 | . Shaft | | 1 |
| 800 | JWBS14SFX-008 | . Blade Guard | | 1 |
| 009 | JWBS14SFX-009 | . Lower Wheel Shaft | | 1 |
| | | . Lower Wheel Bracket | | |
| | | . Upper Guide Mount | | |
| | | . Eccentric Base | | |
| | | Eccentric Shaft | | |
| | | . Worm | | |
| | | . Gear Shaft | | |
| | | . Gear | | |
| | | . Motor Assembly | | |
| | IWBS14SFX-019WD | . Wiring Diagram (not shown) | 170111 , 110472004 . | 1 |
| | | . Motor Label, JWBS-14SFX (not shown) | | |
| | | . Motor Fan (not shown) | | |
| | | Running Capacitor (not shown) | | |
| | | Start Capacitor (not shown) | | |
| | | | | |
| | WBS145FX-019JB | . Junction Box (not shown) | | T |
| | WBS145FX-019JBC | . Junction Box Cover (not shown) | | T |
| | | . Shaft | | |
| | | . Door Lock Knob | | |
| | | . Knob | | |
| | | . Power Cord | | |
| 025 | JWBS14SFX-025 | . Handwheel | | 1 |
| | | . Jet Logo with Adhesive | | |
| | | . Wood Insert | | |
| | | . Tension Handle and Grip | | |
| | | . Switch Assembly (#029-1 thru 029-6) | | |
| | | . Paddle Button (not shown) | | |
| | | . STOP Button (not shown) | | |
| | | . START Button (not shown) | | |
| | | . Support (not shown) | | |
| | | . Panel (not shown) | | |
| | | . Push Button Switch (not shown) | | |
| | | . Shaft | | |
| 031 | | . Upper Guide Mount | | |
| | | . Upper Guide Square Tube | | |
| 033 | JWBS14SFX-033 | . Tension Indicator Plate | | 1 |
| | | . Handle | | |
| | | . Upper Guide Rack | | |
| | | . Blade Guard Cover | | |
| | | . Guide Pointer | | |
| 039 | JWBS14SFX-039 | . Plate | | 1 |
| | | . Socket Head Cap Screw | | |
| | | . Socket Head Cap Screw | | |
| | | . Socket Head Cap Screw | | |
| | | . Socket Head Cap Screw | | |
| | | . Socket Head Cap Screw | | |
| | | . Socket Head Cap Screw | | |
| | | Socket Head Cap Screw | | |
| | | Socket Head Cap Screw | | |
| | | Socket Head Button Screw | | |
| | | Lock Washer | | |
| | | Lock Washer | | |
| | = ==== | | | |

| Index No | Part No | Description | Size | Qty |
|----------|-----------------|--|--------|-----|
| | | . Flat Washer | | |
| | | . Flat Washer | | |
| 055 | JWBS14SFX-051 | . Cutting Height Scale | | 1 |
| | | . Flat Washer | | |
| | | . Flat Washer | | |
| | | . Flat Washer | | |
| 059 | F010422 | . Socket Set Screw, CPP | M10x50 | 1 |
| | | . Socket Set Screw | | |
| | | . Socket Set Screw | | |
| | | . Socket Set Screw | | |
| | | Lower Wheel Assembly (#63-1 thru 63-2) | | |
| | | . Lower Wheel | | |
| | | . Tire | | |
| 064 | JWBS14SFX-064 | Upper Wheel Assembly (#64-1 thru 64-4) | | 1 |
| | | . Upper Wheel | | |
| 064-2 | JWBS14SFX-064-2 | . Tire | | 1 |
| | | . Bearing | | |
| 063-4 | F006035 | C-Retaining Ring, Internal | 40mm | 2 |
| 065 | JWBS14SFX-065 | . Electrical Socket | | 1 |
| 066 | JWBS14SFX-066 | . Hinge Plate | | 1 |
| 067 | JWBS14SFX-067 | . Dust Chute | 100mm | 2 |
| 068 | JWBS14SFX-068 | . Protective Bending Plate | | 1 |
| 069 | JWBS14SFX-069 | . Plate for Gear Box | | 1 |
| 070 | JWBS14SFX-070 | . Gear Box Cover | | 1 |
| | | . Blade Tension Shaft | | |
| 072 | JWBS14SFX-072 | . Connector Nut | | 1 |
| 074 | JWBS14SFX-074 | . Knob | | 1 |
| 075 | JWBS14SFX-075 | . Shaft | | 2 |
| | | . Cord Clip | | |
| | | . Slotted Head Screw | | |
| | | . Sight Glass | | |
| | | Spring | | |
| | | Bolt | | |
| | | Brush | | |
| | | . Spacer Bushing | | |
| | | Lower Door | | |
| | | . Lock Handle | | |
| | | . Sleeve A | | |
| | | Sleeve B | | |
| | | . Cover | | |
| | | . Thread Tube | | |
| | | Collar | | |
| | | . Upper Guide Insert | | |
| | | . Washer A | | |
| | | . Washer B | | |
| | | Plate | | |
| | | Spring Plate | | |
| | | Cover A | | |
| | | Socket Head Button Screw | | |
| | | Socket Head Button Screw | | |
| | | . Rivet | | |
| | | . Pan Head Machine Screw | | |
| | | . Hex Nut | | |
| | | Hex Nut | | |
| | | Hex Nut | | |
| | | . Pan Head Machine Screw | | |
| | | . Flat Washer | | |
| | | . Hex Nut | | |
| | | . Socket Head Cap Screw | | |
| | | Ball Bearing | | |
| | | Socket Set Screw | | |
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| 141 TS-1503031 Socket Head Cap Screw M6x12 1 143 JWBS14SFX-143 Lower Table Trunnion 1 144 JWBS14SFX-144 Upper Table Trunnion 2 146 F009884 Socket Head Button Screw M5x8 1 150 JWBS14SFX-150 Table Insert 1 151 JWBS14SFX-151 Table Pin 1 153 TS-1550031 Flat Washer 5mm 1 154 TS-1550061 Flat Washer 8mm 6 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 |
| 143 JWBS14SFX-143 Lower Table Trunnion 1 144 JWBS14SFX-144 Upper Table Trunnion 2 146 F009884 Socket Head Button Screw M5x8 1 150 JWBS14SFX-150 Table Insert 1 151 JWBS14SFX-151 Table Pin 1 153 TS-1550031 Flat Washer 5mm 1 154 TS-1550061 Flat Washer 8mm 6 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-176 Adjustable Handle 2 177< |
| 144 JWBS14SFX-144 Upper Table Trunnion 2 146 F009884 Socket Head Button Screw M5x8 1 150 JWBS14SFX-150 Table Insert 1 151 JWBS14SFX-151 Table Pin 1 153 TS-1550031 Flat Washer 5mm 1 154 TS-1550061 Flat Washer 8mm 6 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 |
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| 151 JWBS14SFX-151 Table Pin 1 153 TS-1550031 Flat Washer 5mm 1 154 TS-1550061 Flat Washer 8mm 6 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 153 TS-1550031 Flat Washer 5mm 1 154 TS-1550061 Flat Washer 8mm 6 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 154 TS-1550061 Flat Washer 8mm 6 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 155 TS-1550071 Flat Washer 10mm 2 157 JWBS14SFX-157 Lock Handle 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 157 JWBS14SFX-157 Lock Handle 1 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 158 JWBS14SFX-158 Carriage Bolt M8x80 2 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 159 TS-1541031 Nylon Lock Hex Nut M8 1 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 160 JWBS14SFX-160 Table Pin Wrench 1 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 161 TS-2248202 Socket Head Button Screw M8x20 4 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 162 F009875 Socket Head Button Screw M4x8 2 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 163 F009884 Socket Head Button Screw M5x8 14 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 166 JWBS14SFX-166 Pointer 1 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 176 JWBS14SFX-176 Adjustable Handle 2 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 177 JWBS14SFX-177 Chain 1 178 JWBS14SFX-178 Pin 1 183 TS-2311081 Hex Nut M8 4 |
| 183TS-2311081 Hex Nut |
| |
| |
| 184TS-2311101 Hex Nut |
| 185F009484 Hex Cap Screw |
| 186TS-1550031 Flat Washer |
| 187TS-1550071Flat Washer |
| 188JWBS14SFX-188 Table |
| 189 |
| 190TS-1503051Socket Head Cap ScrewM6x20 |
| 193TS-1303061Socket Head Cap Screw |
| 194JWBS14SFX-194 Scale A |
| 195JWBS14SFX-195 Scale B |
| 196JWBS14SFX-196 Adjustable Handle |
| 197TS-1540041 Hex Nut |
| 198TS-1523051 Socket Set Screw |

| Index No | Part No | Description | Size | Qty | | |
|-----------------------------|---------------|---|---------|-----|--|--|
| 199 | TS-1503041 | . Socket Head Cap Screw | . M6x16 | 2 | | |
| 200 | TS-1550041 | . Flat Washer | . 6mm | 2 | | |
| 201 | JWBS14SFX-201 | . Guide Base, Lower Guide | | 1 | | |
| | | . Nut, Bearing | | | | |
| | | . Flat Washer | | | | |
| | | . Ball Bearing | | | | |
| | | . Sleeve B | | | | |
| | | . Socket Head Cap Screw | | | | |
| | | . Guard Right, Lower Guide | | | | |
| | | . Guard Left, Lower Guide | | | | |
| | | . Flat Washer | | | | |
| | | . Socket Head Cap Screw | | | | |
| | | . Socket Head Cap Screw | | | | |
| | | . Flat Washer | | | | |
| | | . Sleeve | | | | |
| | | . Guide Rod, Bearing | | | | |
| | | . Motor Pulley | | | | |
| | | . Saw Body | | | | |
| | | . Motor Plate | | | | |
| | | . Socket Head Flat Screw | | | | |
| | | . Socket Head Cap Screw | | | | |
| | | . Fence | | | | |
| | | . Carriage Bolt | | | | |
| | | . Lock Bar | | | | |
| | | . Cap for Fence Body | | | | |
| | | Fence Body | | | | |
| | | . Guide Plate, ScrewSocket Head Button Screw | | | | |
| | | Socket Set Screw | | | | |
| | | Connecting Plate | | | | |
| | | Socket Head Cap Screw | | | | |
| | | Connecting Long Plate | | | | |
| | | Left Cap for Fence Guide | | | | |
| | | Lock Shaft | | | | |
| | | Fence Guide | | | | |
| | | Cursor Stop | | | | |
| | | Cursor | | | | |
| | | . Right Cap for Fence Guide | | | | |
| | | . Pan Head Machine Screw | | | | |
| | | . Low Stop Plate | | | | |
| 245 | JWBS14SFX-245 | Insert Plate | . M5 | 2 | | |
| 246 | JWBS14SFX-246 | . Eccentric Locking Rod | | 1 | | |
| 247 | JWBS14SFX-247 | . Lock Handle | | 1 | | |
| 248 | JWBS14SFX-248 | . Eccentric Locking Spring | | 1 | | |
| | | . Pan Head Machine Screw | | | | |
| 250 | JWBS14SFX-250 | . Left Cap for Fence Rail | | 1 | | |
| | | . Right Cap for Fence Rail | | | | |
| 252 | JWBS14SFX-252 | . Fence Rail Assembly | | 1 | | |
| 253 | TS-1490021 | . Hex Cap Screw | . M8x16 | 4 | | |
| 254 | JWBS14SFX-254 | . Plate | | 1 | | |
| | | . V-Belt | | | | |
| | LM000330 | . ID Label, JWBS-14SFX (not shown) | | 1 | | |
| | | Warning Label, JWBS-14SFX (not shown) | | | | |
| | JET750-55 | . Hex wrench (not shown) | . 2.5mm | 1 | | |
| | | Hex wrench (not shown) | | | | |
| | TS-152706 | . Hex wrench (not shown) | . 5mm | 1 | | |
| | | . Hex wrench (not shown) | | | | |
| | | Quick Release Label, JWBS-14SFX (not shown) | | | | |
| | JWBS14SFX-HPN | Hardware Package (see sect. 5-1 for contents) | | | | |
| (s/n 2018121502 and higher) | | | | | | |

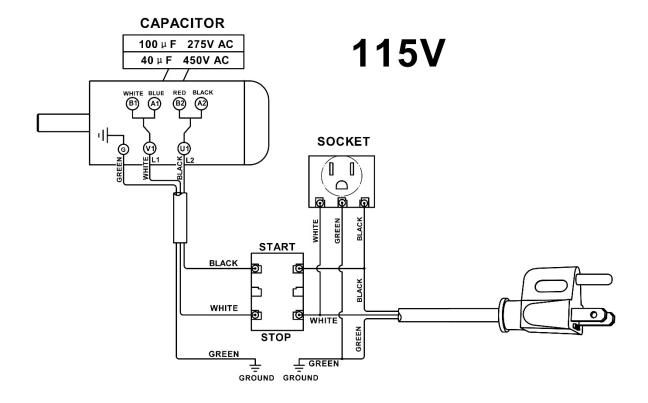
13.1.7 **JWBS-14SFX Stand (#714402) – Parts List**

| Index No | Part No | Description | Size | Qty |
|-----------------|------------------|---|------------------------------|------------|
| | 714402 | . Band Saw Stand Assembly (#421 thru 42 | 28) | 1 |
| | | Stand Base | | |
| | | Stand Plate | | |
| | | . Rubber Foot | | |
| | | Socket Head Cap Screw | | |
| | | . Flat Washer | | |
| | | Lock Washer | | |
| | | . Hex Cap Screw | | |
| | | . Hex Nut | | |
| 12 1 Q I | WRS 14LIT Ligh | t Kit* (#714403) – Parts List (Օր | ntional Accessory) | |
| | _ | | | 4 |
| | | . Band Saw Light Kit (#501 thru 503) | | |
| 501 | .JWBS14SFX-503 | . Light Kit (110V—230V) | | 1 |
| | | . Socket Head Cap Screw | | |
| 503 | . IS-152/05 | . Hex Wrench | 4mm | 1 |
| | .LM000338 | . ID Label, JWBS-14LIT (not shown) | | 1 |
| 13.1.9 N | liter Gauge Asse | embly for JWBS-14SFX Band Sa | aw* (Optional Accessory | ') |
| Index No | Part No | Description | Size | Qty |
| | IM/DO440EV 000 | • | | • |
| | | . Miter Gauge Assembly (#301 thru 322) | | |
| | | . Miter Gauge Handle | | |
| | | . Flat Washer | | |
| 303 | .JWBS14SFX-303 | . Miter Gauge | | 1 |
| | | . Flat Head Machine Screw | | |
| | | . Pointer | | |
| | | . Pointer Base | | |
| | | . Shaft | | |
| | | . Flat Head Machine Screw | | |
| | | . Washer | | |
| | | . Screw | | |
| | | . Sliding Guide | | |
| | | . Pan Head Machine Screw | | |
| | | . Hex Nut | | |
| 314 | JWBS14SFX-314 | . Scale | | 1 |
| 315 | TS-1533032 | . Pan Head Machine Screw | M5x10 | 2 |
| | | . Cap A | | |
| 317 | JWBS14SFX-317 | . Miter Gauge Fence | | 1 |
| 318 | JWBS14SFX-318 | . Cap B | | 1 |
| 319 | JWBS14SFX-319 | . Carriage Bolt | M6x30 | 2 |
| 320 | .TS-1550041 | . Flat Washer | 6mm | 2 |
| 321 | .JWBS14SFX-321 | . Thumbnut | M6 | 2 |
| | | . Self-Tapping Screw | | |
| 13.1.10 | Optional Access | ory* – Blade & Push Stick | | |
| | | . Push Stick, Red | | 1 |
| | | . Blade1 | | |
| UZ I | 140FA-UZ I | . Diaue | 110.20 X 5/0 X 0.020 X 4 1P1 | 1 |

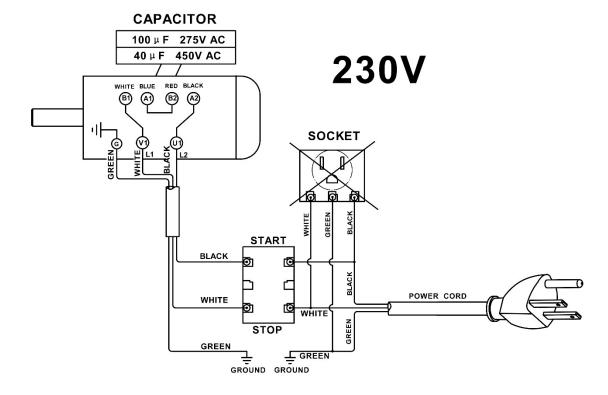
^{*} Optional Accessory – see your dealer to order.

14.0 Electrical Connections

14.1 Electrical Connections for 1.75HP, 1PH, 115V only (model #714401)



14.2 Electrical Connections for 1.75HP, 1PH, 230V only (model #714401)



15.0 Warranty and service

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. Please note that you will be asked to provide proof of initial purchase when calling. If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. JET 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. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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Product Listing with Warranty Period

90 Days – Parts; Consumable items

1 Year - Motors; Machine Accessories

2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes

5 Year – Woodworking Machinery

Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools; Air Tools

NOTE: JET is a division of JPW Industries, Inc., References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.



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