



Operating Instructions and Parts Manual 14-inch Woodworking Band Saw

Model JWBS-14SFX



Shown with optional
lamp kit #714403

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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.
2. 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.
3. 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.
5. 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.
6. Always wear approved safety glasses/face shield while using this machine. (Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.)
7. 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.
10. 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.
11. 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.
16. 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.
20. **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 to avoid inhaling dust generated from wood products.
21. Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm. (California Health and Safety Code Section 25249.6)
22. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
23. Make certain switch is in OFF position before connecting machine to power supply.
24. Make certain machine is properly grounded.
25. Do not back stock out of blade while blade is running.
26. Do not remove jammed cutoff pieces until blade has stopped.
27. 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.
28. 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.

29. 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.
30. Keep floor around machine clean and free of scrap material, oil and grease.
31. Keep visitors a safe distance from work area. Keep children away.
32. Make your workshop child proof with padlocks, master switches or by removing starter keys.
33. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
34. 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.
35. 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.
36. Use recommended accessories; improper accessories may be hazardous.
37. Maintain tools with care. Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
38. Turn off machine before cleaning. Use a brush or compressed air to remove chips or debris — not your hands.
39. Do not stand on machine. Serious injury could occur if machine tips over.
40. Never leave machine running unattended. Turn power off and do not leave band saw until blade comes to a complete stop.
41. Remove loose items and unnecessary work pieces from area before starting machine.
42. Keep hands out of path of saw blade. Do not reach around a moving saw blade.
43. Don't use in dangerous environment. Do not expose machine to rain or use in wet or damp locations. Keep work area well lighted.
44. Make sure band saw is securely fastened to base.
45. Do not start the band saw with a workpiece in contact with the blade.
46. Allow blade to reach full speed before cutting.
47. Keep blades clean and sharp. Do not use blades that are cracked, poorly welded, or have missing or deformed teeth.
48. Use a push stick or other safety device when ripping narrow workpieces.

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 after-market 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.

 WARNING Read 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

Model number	JWBS-14SFX
Stock numbers	
Band Saw with Stand	714400K
Band Saw only	714401
Stand only	714402
Light kit (optional accessory)	714403
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
Run capacitor	40µF 450VAC
Motor speed	1720 RPM
Starting current	63 / 34 A
Running current (no load)	7.1 / 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	15 A
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)	13 in. (330 mm)
Throat capacity	13-1/2 in. (345 mm)
Blade length	116-1/4 in. (2953 mm)
Minimum blade width	1/8 in. (3.175 mm)
Maximum blade width	1 in. (25.5 mm)
Blade speed	15.24 m/s (3000 FPM)
Wheel speed	765 RPM
Blade provided	Hook type, 116.25" x 5/8" x 0.02" x 4 TPI
Main materials	
Table	Ground cast iron
Table insert	Anodized aluminum
Trunnion	Cast iron
Frame	Steel
Stand	Steel
Band wheels	Cast iron
Tires	Polyurethane
Blade guides	Ball bearings, aluminum block
Resaw fence	Extruded aluminum
Paint finish	Powder coating
Door knobs	Plastic
Dust collection	
Dust port outside diameter	4 in. (100mm) x 2
Minimum extraction volume required	400 CFM

Table, fence, miter gauge	
Table dimensions L x W	21-1/2 x 17 in. (535 x 435 mm)
Table tilt	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 W 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 – saw only; L x W x H (approx.)	63-3/4 x 27 x 20 in. (1620 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.)	300 lb. (135 kg)
Shipping weight (approx.)	325 lb. (146 kg)

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.

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.

4.1 Base Hole Centers

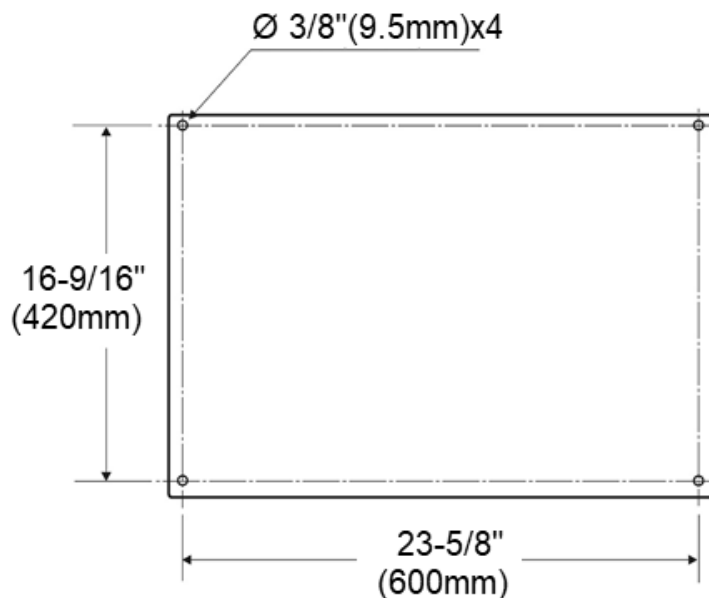


Figure 4-1: base hole centers

⚠WARNING

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.

Box #1:

- 1 Stand (not shown)

Box #2:

- 1 Band saw (not shown)
- 1 Blade (preinstalled, not shown)
- 1 Table – **A**
- 1 Table insert (preinstalled in table) – **B**
- 2 Handles – **C**
- 1 Dust chute – **D**
- 1 Fence body – **E**
- 1 Resaw fence – **F**
- 1 Guide rail – **G**
- 1 Miter gauge assembly – **H**
- 1 Push stick – **J**
- 4 Hex wrenches, 2.5/4/5/6mm (not shown)
- 1 Operating Instructions and Parts Manual
- 1 Product registration card
- 1 Hardware package (JWBS14SFX-HP):
 - 4 Socket hd cap screws M8x60 – **HP1**
 - 3 T-bolts M8x25 – **HP2**
 - 4 Socket hd button screws M8x20 – **HP3**
 - 4 Socket hd button screws M5x8 – **HP4**
 - 17 Flat washers 8mm – **HP5**
 - 8 Hex nuts M8 – **HP6**
 - 1 Long neck screw – **HP7**
 - 1 Socket hd cap screw M8x65 – **HP8**
 - 1 Flat washer 6mm – **HP9**

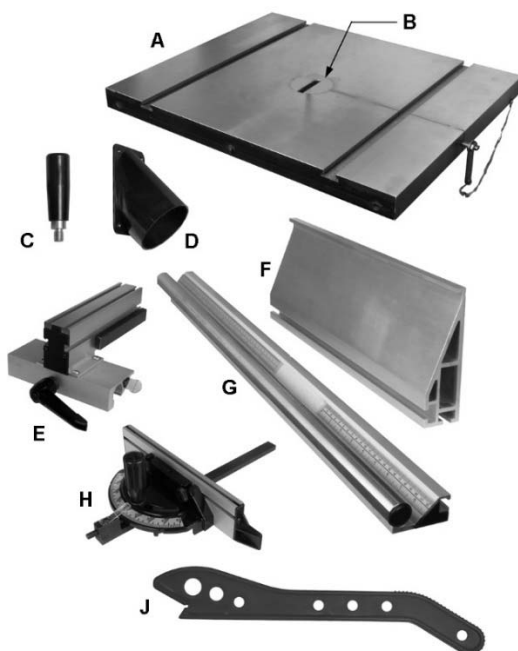


Figure 5-1: contents (not to scale)



Figure 5-2: hardware package

5.2 Tools required for assembly

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

- 5mm, 6mm hex wrenches (provided)
- 13mm open-end or box wrench
- 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.

⚠WARNING

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

Note: Figures show optional accessory lamp (#714403) mounted to Band Saw. This item is not provided; see your dealer to order.

5.4 Assembling saw to stand

Remove rear panel of stand. Use forklift or hoist with straps to lift saw from box and place on stand. (Keep straps away from handles and knobs). Secure saw firmly to stand with fasteners (Figure 5-3). Reinstall rear panel.

5.5 Installing handles

Thread handle (C, Figure 5-3) into top and bottom handwheels and tighten with 13mm wrench on flats.

5.6 Installing dust chute

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

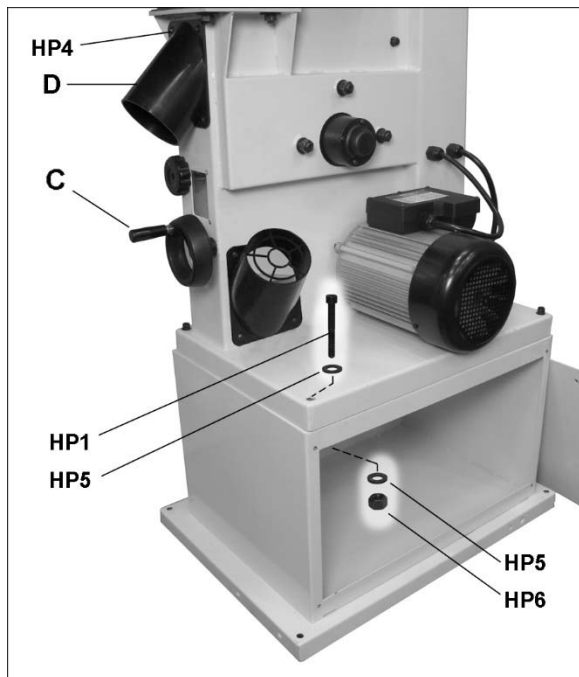


Figure 5-3

5.7 Installing and aligning table

Refer to Figures 5-4 through 5-6.

CAUTION Table is heavy; an assistant is recommended.

The table must be mounted so that:

- Blade runs through center of table insert.
- Table is aligned with blade.
- Table is square to blade at 90° scale reading.

1. Remove insert (B, Figure 5-4).
2. Lower blade tension lever (see D, Figure 7-5) to tension position.
3. Slide table from behind the blade toward the front, allowing blade to pass through table slot, then rotate table counterclockwise into final position, as shown in Figure 5-4.
4. Slide pin (K, Figure 5-4) into table edge; this prevents any deflection of table along blade slot.

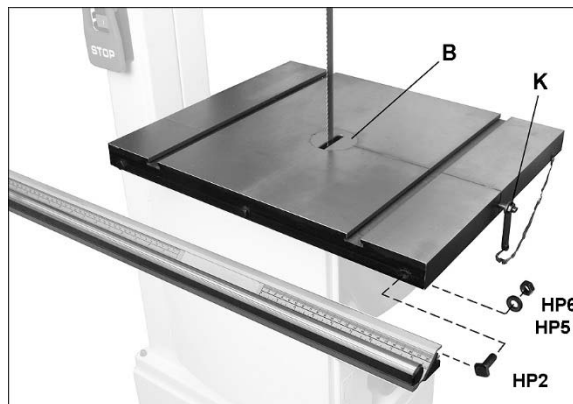


Figure 5-4: table and guide rail installation

5. Line up table to trunnion slots and insert screws and washers (HP3/5, Figure 5-5). *Only hand tighten screws at this time.*

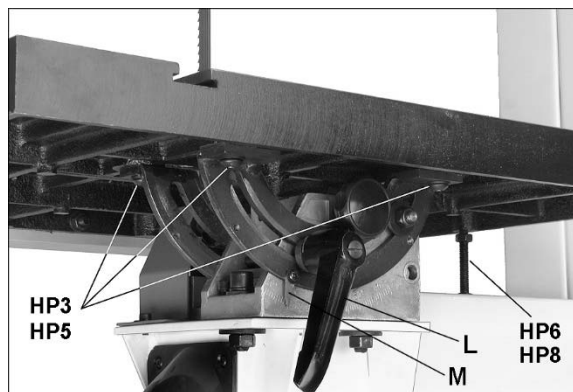


Figure 5-5: table installation

6. Install table insert (B). Blade should be positioned at center of insert opening. If it is not, push 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.

5.7.1 Table-to-blade alignment

7. 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 5-6. *Do not deflect blade by pushing into it.*

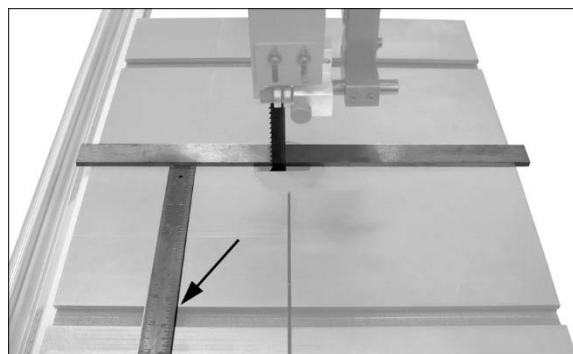


Figure 5-6

8. Use a gauge (Figure 5-6) to carefully measure distance from miter slot edge to straight edge. Take measurements at both front and back of table – these should be identical.
9. If miter slot is not parallel to blade, bump table with rubber mallet in the needed direction.
10. When parallelism is achieved (and blade is still centered through table insert), securely tighten the four trunnion screws (HP3, Figure 5-5).

5.7.2 Table-to-blade squaring and 90° stop

11. Insert stop screw with nut (see HP6/8, Figure 5-5) into table.
12. Set a square on table top and against blade, as shown in Figure 5-7.
13. Loosen lock handle (L, Figure 5-5) and manually tilt table until table and blade are square.
14. Tighten lock handle (L).
15. Turn stop screw (HP6) until it contacts saw frame, and tighten hex nut (HP8) against table.
16. If needed, loosen screw and move pointer (M, Figure 5-5) to align with zero on scale. Retighten screw.

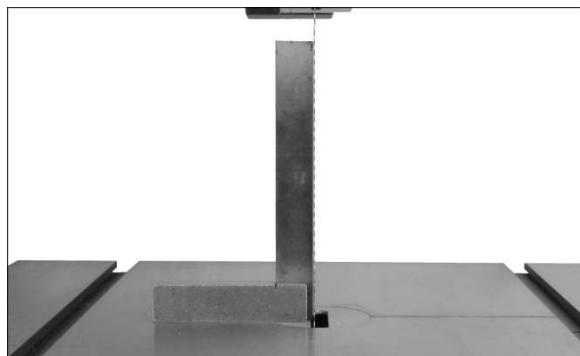


Figure 5-7 squaring table to blade

5.8 Installing guide rail and fence

1. Install three T-bolts with washers and nuts (see HP2/5/6, Figure 5-4) into front table edge. Leave T-bolts loose.
2. Slide fence body onto end of guide rail (Figure 5-8). Push up guide rail until gap between fence body and table is even, then snug guide rail nuts a little more. *Do not fully tighten yet.*

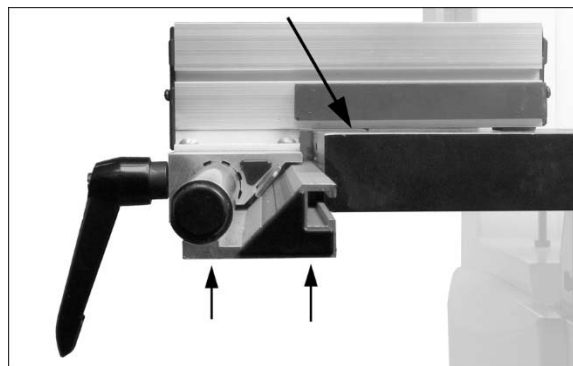


Figure 5-8

3. Loosen handles (E1, Figure 5-9) and install fence onto bar. Tighten handles (E1).

5.8.1 Fence to miter slot alignment

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

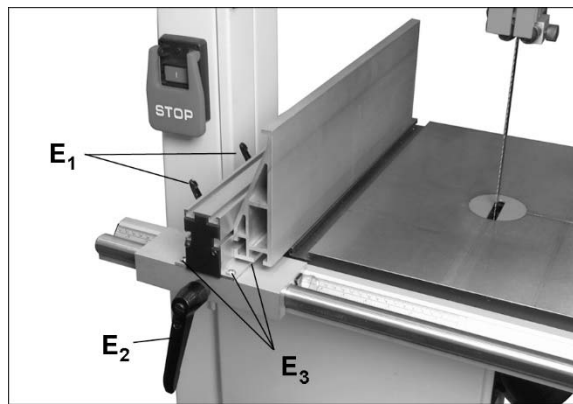


Figure 5-9

5.8.2 Fence to blade alignment

7. Set table at 90° to blade and lock in position.
8. Move fence against blade (do not deflect blade by pushing into it). See Figure 5-10.
9. Verify that fence, top-to-bottom, lies flat against side of blade. If it does not, loosen guide rail nuts (see HP6, Figure 5-4) and raise or lower one end of guide rail as needed.
10. Snug guide rail nuts. Do not fully tighten yet.

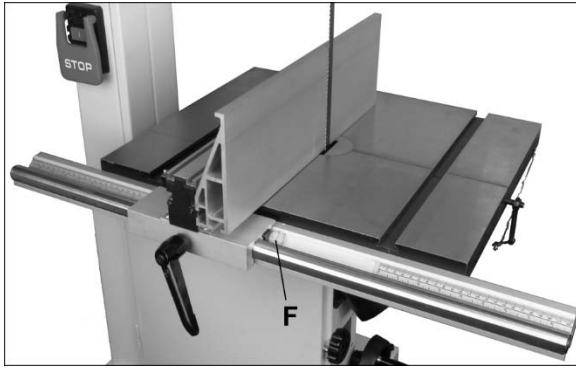


Figure 5-10

5.8.3 Cursor alignment

11. With fence against blade, verify that cursor (F, Figure 5-10) aligns with zero on scale.
12. To adjust, slightly loosen guide rail nuts and slide guide rail left or right as needed.
13. Securely tighten all nuts on guide rail.

5.9 Storage screw

Insert long neck screw with washer (HP7/9, Figure 5-2) into threaded hole on back of saw column. The push stick and other accessories may be stored upon it.

5.10 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

⚠WARNING 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.

⚠WARNING

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. 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.

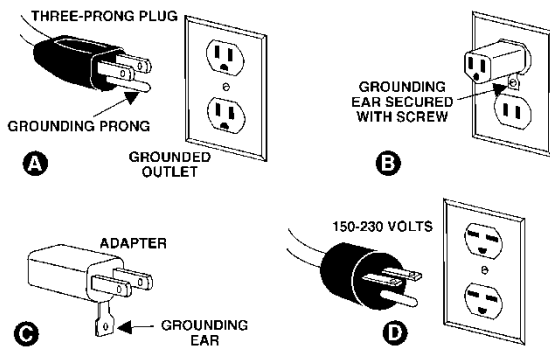


Figure 6-1

6.2 Voltage conversion

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

1. Switch the lead wires inside motor junction box, according to diagram found inside junction box cover.
2. 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

Ampere Rating		Volts	Total length of cord in feet			
More Than	Not More Than	120 240	25 50	50 100	100 200	150 300
			AWG			
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

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.

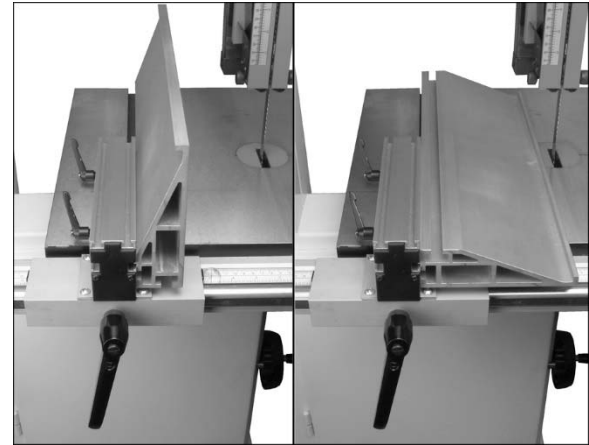


Figure 7-1: fence positions

7.2 Miter gauge

Refer to Figure 7-2.

1. Slide miter gauge into table slot from front edge of table.
2. 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.

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.
5. If miter gauge is not square to blade, loosen handle (A₃) and adjust until square. Tighten handle.
6. Verify that pointer (A₅) shows 90°. If it does not, loosen screw and shift pointer to 90°. Tighten screw.
7. 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.

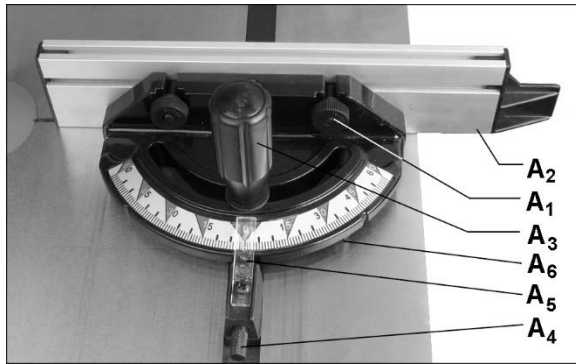


Figure 7-2: miter gauge adjustments

7.3 Table tilt

Refer to Figure 7-3.

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

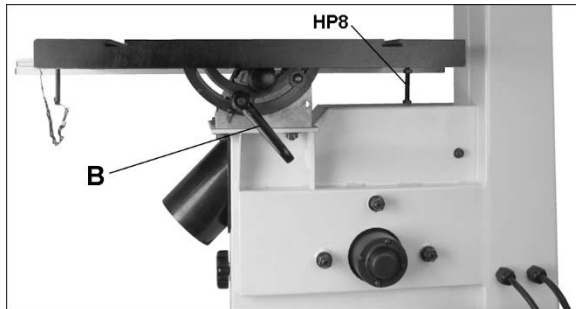


Figure 7-3: table tilt

7.4 Installing/changing blades

⚠WARNING Disconnect machine from power source before installing blade.

⚠CAUTION Wear 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.

See sect. 4.0 for blade requirements of the JWBS-14SFX.

1. Disconnect machine from power source.
2. Remove pin from table slot, and remove table insert.
3. Adjust upper and lower blade guides away from blade (see sect. 7.8 through 7.10).
4. Raise quick tension lever (see D, Figure 7-5) to release position. If needed, rotate tension handwheel (E, Figure 7-5) for further detensioning.

5. Open upper and lower doors by rotating door knobs.
6. Remove dust block (C, Figure 7-4).
7. Carefully remove blade from top wheel, then from between upper and lower blade guides and lower wheel. Slide blade out through slot in table.
8. Guide new 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.)

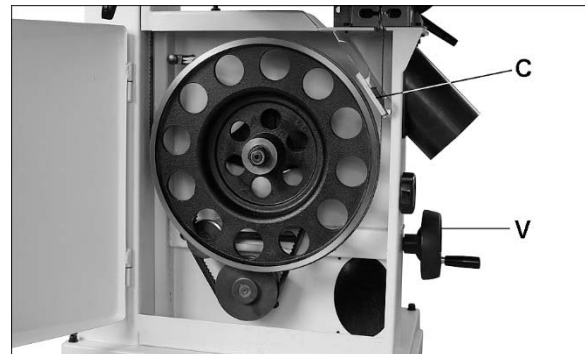


Figure 7-4

9. Position blade at center of upper and lower wheels.
10. Reinstall dust block, table insert and table pin.
11. Before operating band saw, the new blade must be tensioned and tracked, in that order. Refer to sect. 7.5 and 7.6.
12. The blade guides must also be set properly according to instructions in sect. 7.7 through 7.10.

7.5 Blade tension

Refer to Figures 7-5 and 7-6.

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

1. Lower tension lever (D, Figure 7-5) to tension position.
2. Set proper blade tension by rotating handwheel (E, Figure 7-5), clockwise to tighten, counterclockwise to loosen.
3. The gauge (F, Figure 7-6) 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 to *release* position – this will prolong the life of blade and tires.

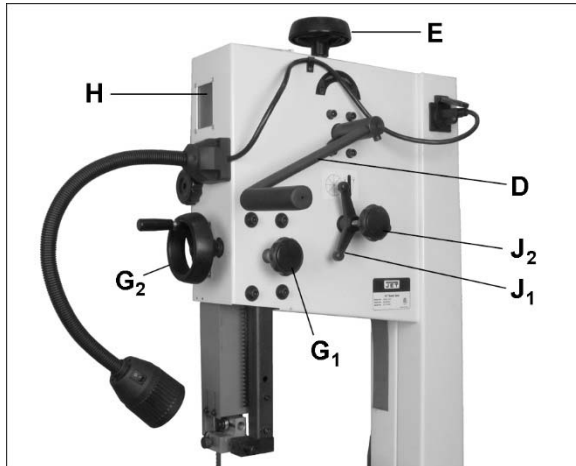


Figure 7-5

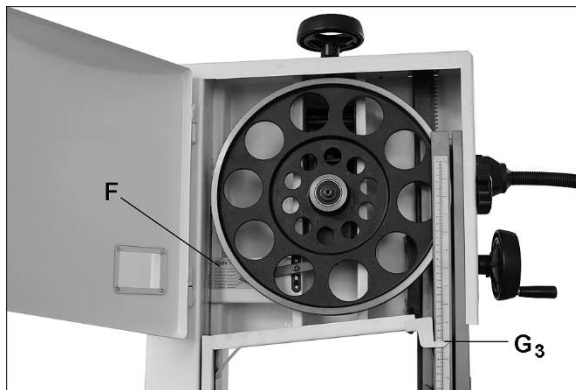


Figure 7-6

7.6 Blade tracking

Refer to Figures 7-5 and 7-7.

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 machine from power source.
2. Blade must be correctly tensioned (*sect. 7.5*). Lower blade tension lever to *tension* position.
3. Back off blade guides so they will not interfere with blade movement.
4. Loosen guide post locking knob (G₁, Figure 7-5) 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 7-7).

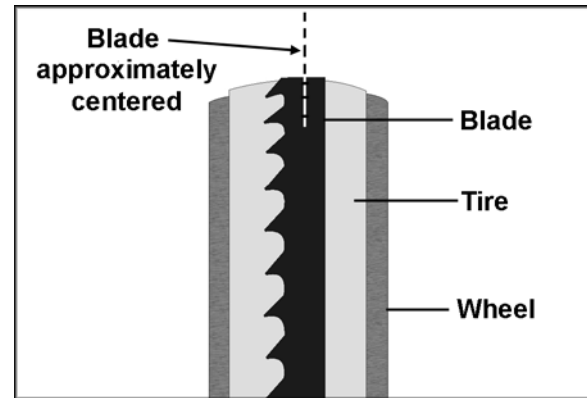


Figure 7-7

7. If blade tends to move toward left or right edge of wheel, loosen locking handle (J₁, Figure 7-5) 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.

7.7 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.

7.8 Upper blade guides

CAUTION 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 7-8 and 7-9.

1. Disconnect machine from power source.
2. Blade must already be tensioned and tracking correctly. See *sect. 7.5* and *7.6*.

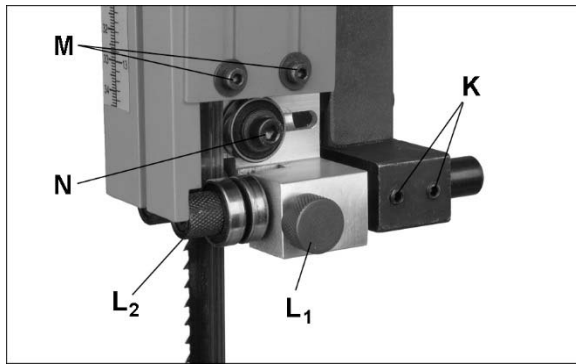


Figure 7-8: blade guide adjustment

3. Place quick tension handle in *tension* position.
4. Loosen two set screws (K, Figure 7-8) 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 7-9.

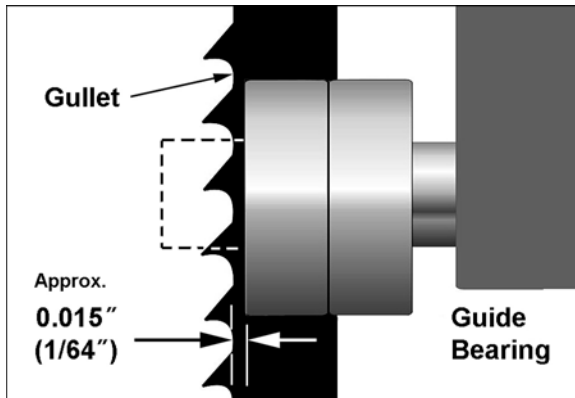


Figure 7-9: guide bearing position

5. Tighten set screws (K, Figure 7-8).
6. Loosen lock knob (L₁) 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.

CAUTION Do not force guide bearing 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.

7.9 Upper thrust bearing

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

Refer to Figure 7-8.

The thrust bearing prevents backward deflection of blade during cutting.

1. **Disconnect band saw from power source.**
2. Loosen screws (M, Figure 7-8) with 3mm hex wrench and raise guard plate to expose thrust bearing.
3. 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.
6. Make sure all screws and lock knobs on upper guide bearing assembly are tightened when adjustments are complete.

7.10 Lower blade guides

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

Refer to Figures 7-10 and 7-11.

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 7-9). 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.

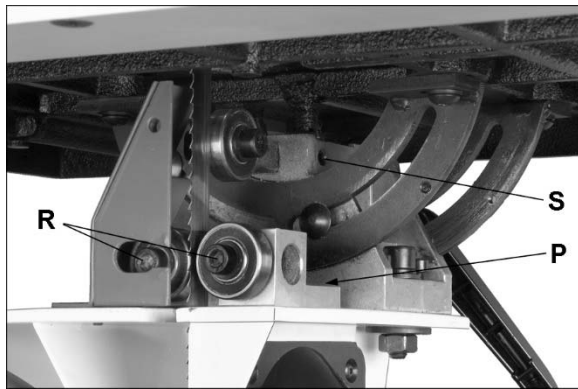


Figure 7-10: lower blade guides (NOTE: right bearing guard removed for clarity – removal not necessary for adjustment.)

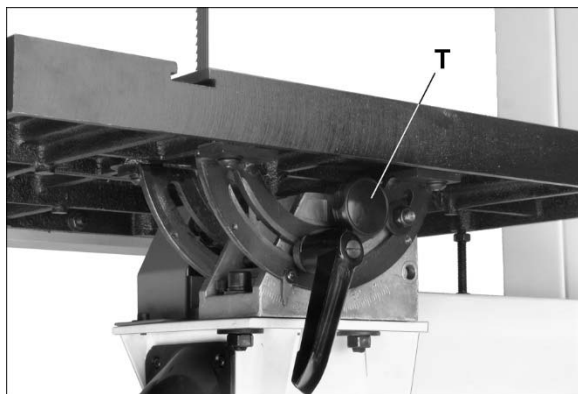


Figure 7-11: lower blade guides

7.11 Guide post

1. Disconnect band saw from power source.
2. Loosen lock knob (G₁, Figure 7-5) and raise or lower guide post using handwheel (G₂, Figure 7-5).
3. 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 7-6) 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.
4. Tighten lock knob (G₁).

7.12 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 breaking-in process.

7.12.1 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. Rotate handwheel (V, Figure 7-4) as needed for proper tension.

7.12.2 Drive belt replacement

⚠WARNING 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 machine from power source.
2. Open upper and lower doors and remove blade.
3. De-tension belt using handwheel.
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.
6. 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. Install blade, and verify blade tension and tracking before operating (sect 7.5 and 7.6).

7.13 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.

CAUTION If a power outage occurs, band saw will resume action immediately 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.

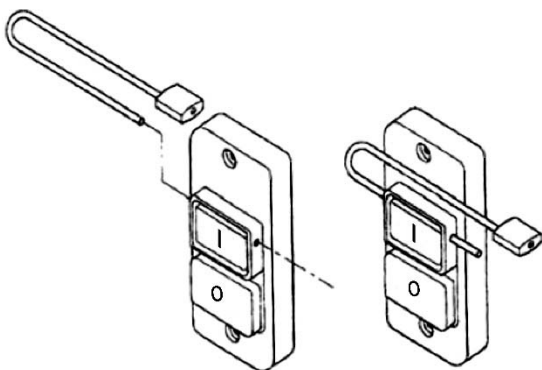


Figure 8-1: switch lockout

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

1. 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.
3. 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.

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

WARNING 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.

5. 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.

CAUTION When 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.

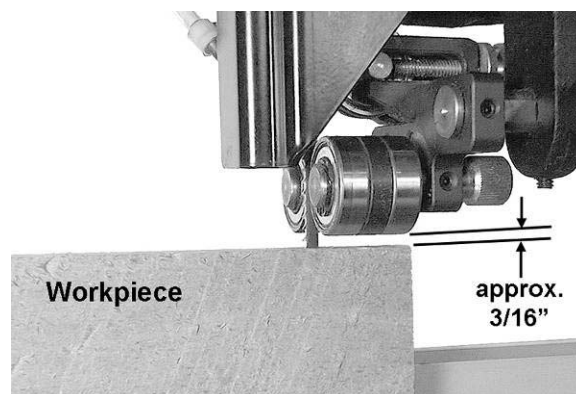


Figure 9-1

9.2 Ripping

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

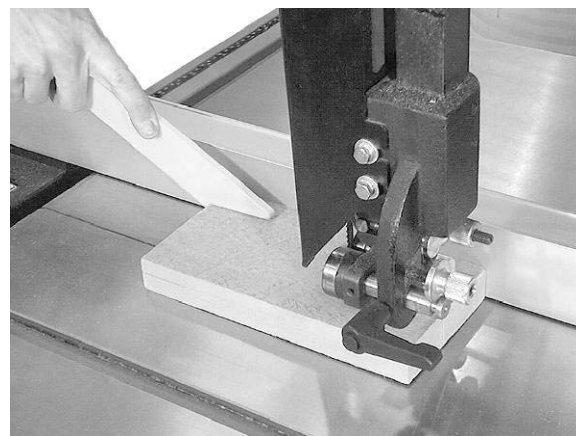


Figure 9-2: ripping

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.

CAUTION Using the fence in conjunction with the miter gauge can cause binding and possible damage to the blade.

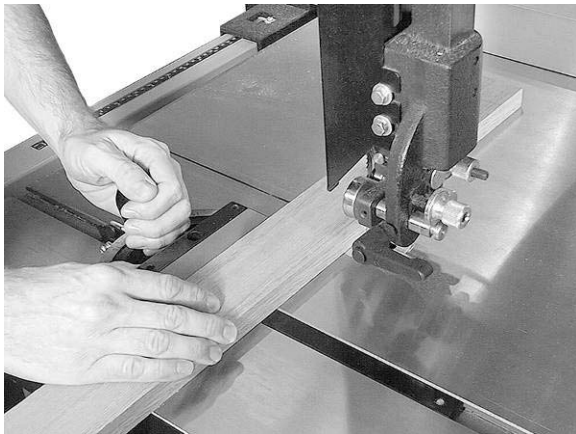


Figure 9-3: crosscutting

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. Figure 9-4 demonstrates resawing.

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.

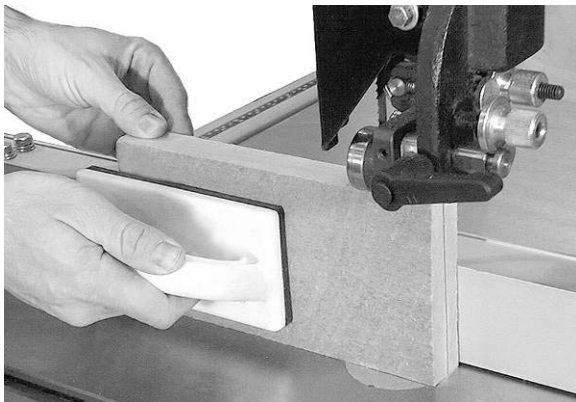


Figure 9-4: resawing

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.

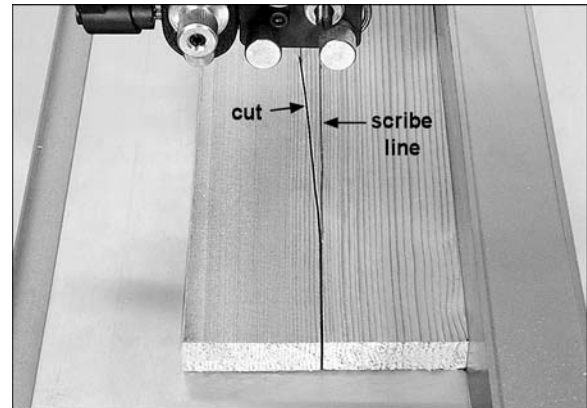


Figure 9-5: blade lead

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 workpiece or part.
- ☐ The features of the workpiece or part, 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 kinds of sawing requirements. They are:

1. width
2. pitch (number of teeth per inch)
3. tooth form (or shape)
4. the "set" of the teeth
5. 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 have to cut a hard or very brittle material, you will probably 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.

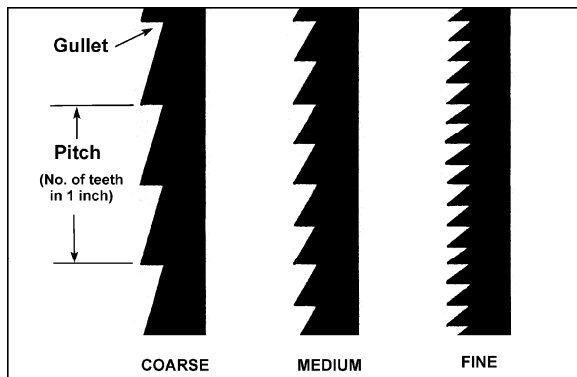


Figure 9-6: blade pitch

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.

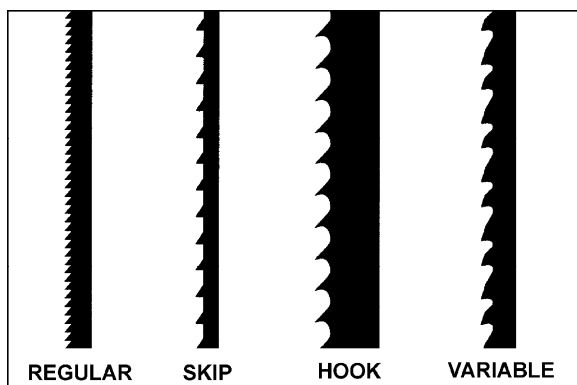


Figure 9-7: blade shape

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.

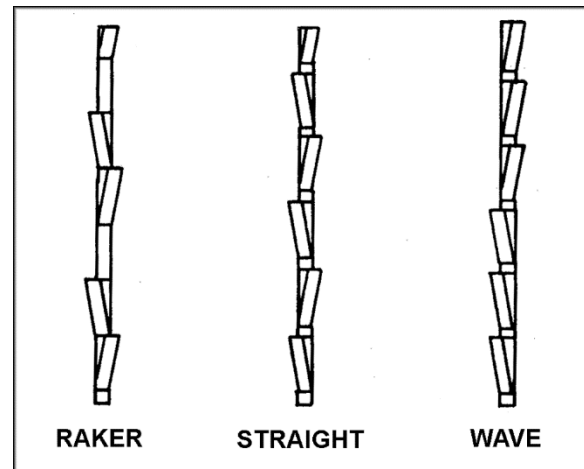


Figure 9-8: blade set

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:

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

10.0 User-maintenance

⚠WARNING 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.

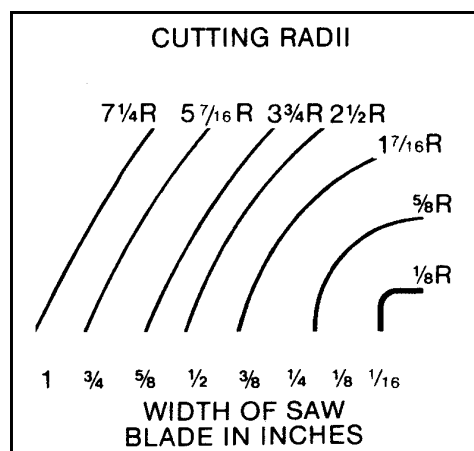
Key: H – Hook L – Low
 S – Skip M – Medium
 R – Regular H – High

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

Material/s		Workpiece Thickness			
		1/2"	1"	3"	6+"
Woods	Hardwood	10/R/L	8/R/L	3/H/M	3/H/M
	Softwood	10/R/L	8/R/L	3/H/M	3/H/M
Non-Metals	Carbon	10/R/L	6/R/L	3/S/M	3/S/M
	Mica	32/R/L	--	--	--
	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
Plastics	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
	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 position under load.	Lock handle not tight.	Tighten lock handle.
	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 workpiece is rough.	Blade pitch too coarse.	Change to finer pitch blade.
	Workpiece being fed too strongly.	Reduce feed force.
Blade cutting inaccurately. Cuts not straight.	Gum or pitch on blade.	Clean blade.
	Worn blade teeth or damaged blade.	Replace blade.
	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 prematurely.	Feed force too great.	Reduce feed force.
	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 start/restart or repeatedly trips circuit breaker or blows fuses.	No incoming power.	Verify machine connections.
	Cord damaged.	Replace cord.
	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.
Band Saw does not attain full speed.	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.
	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.

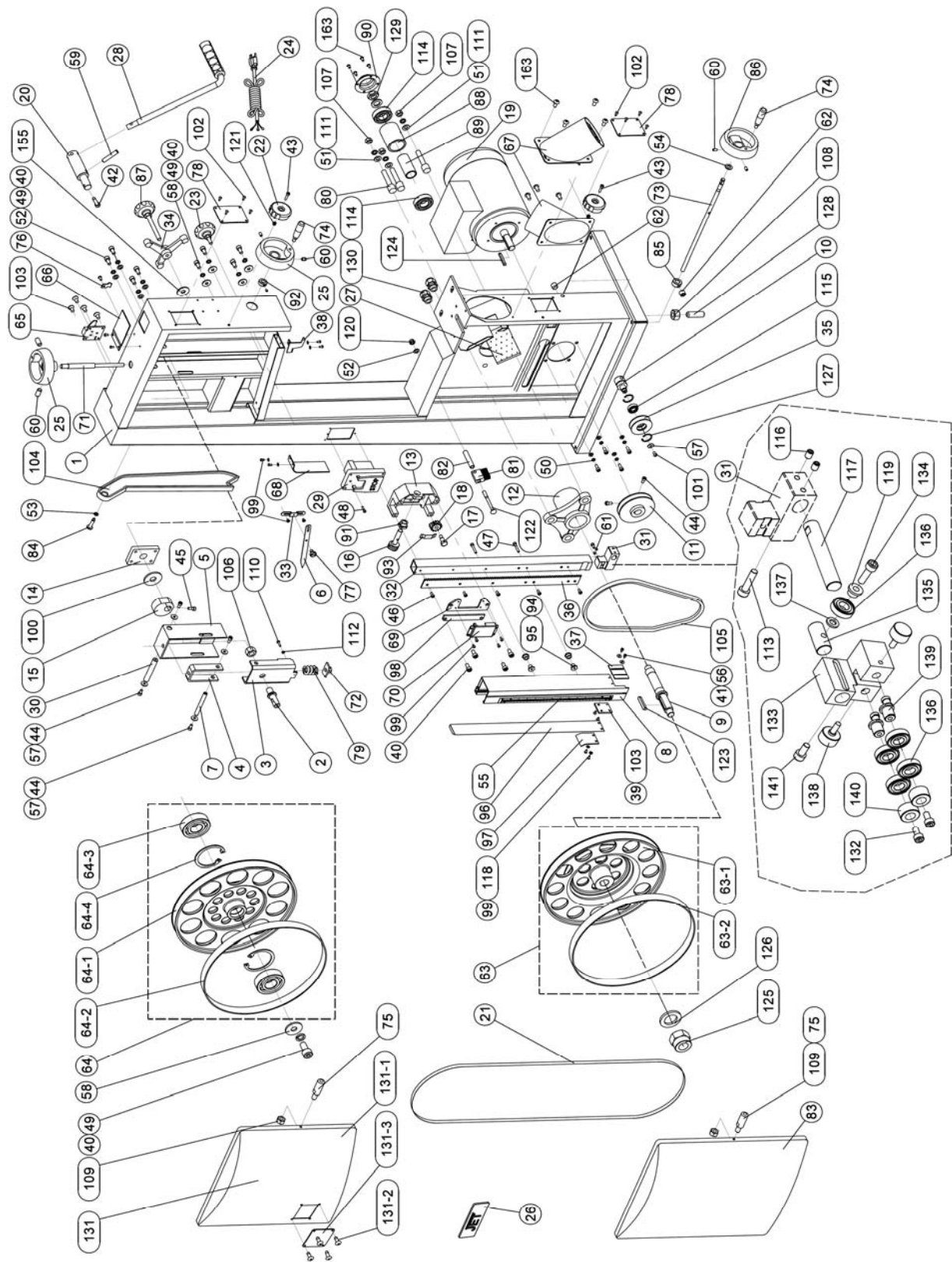
* **WARNING:** Some corrections may require a qualified electrician.

13.0 Replacement Parts

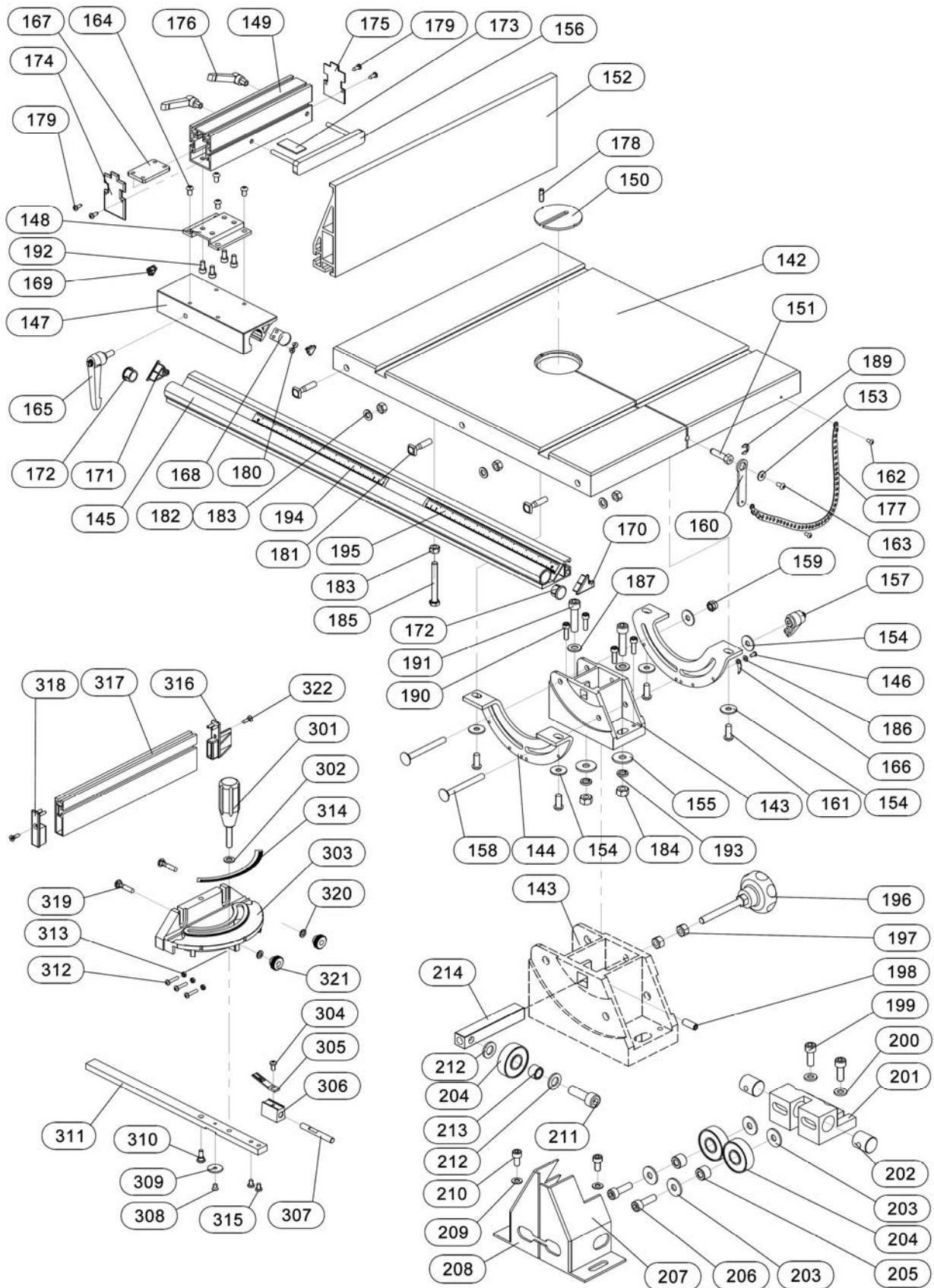
Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

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.

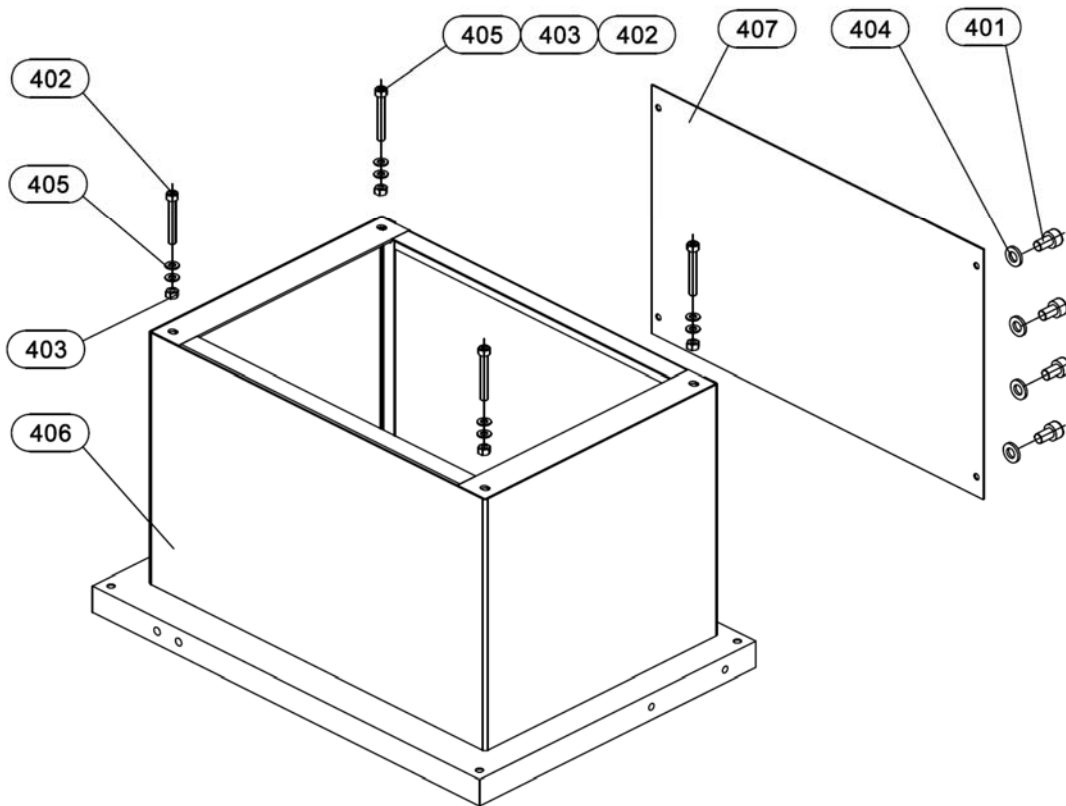
13.1.1 JWBS-14SFX (#714401) – Band Saw Assembly – Exploded View



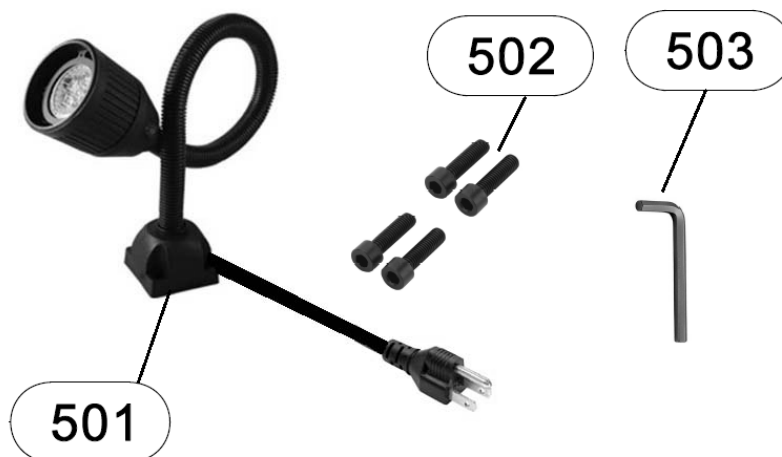
13.1.2 JWBS-14SFX (#714401) – Table and Miter Gauge Assembly – Exploded View



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 Band Saw (#714401) – Parts List

Index No	Part No	Description	Size	Qty
001	JWBS14SFX-001	Saw Body		1
002	JWBS14SFX-002	Upper Wheel Shaft		1
003	JWBS14SFX-003	Upper Wheel Axis Seat		1
004	JWBS14SFX-004	U-Bracket		1
005	JWBS14SFX-005	Guide Plate		1
006	JWBS14SFX-006	Tension Pointer		1
007	JWBS14SFX-007	Shaft		1
008	JWBS14SFX-008	Blade Guard		1
009	JWBS14SFX-009	Lower Wheel Shaft		1
010	JWBS14SFX-010	Shaft for Tension Pulley		1
011	JWBS14SFX-011	Motor Pulley		1
012	JWBS14SFX-012	Lower Wheel Bracket		1
013	JWBS14SFX-013	Upper Guide Mount		1
014	JWBS14SFX-014	Eccentric Base		1
015	JWBS14SFX-015	Eccentric Shaft		1
016	JWBS14SFX-016	Worm		1
017	JWBS14SFX-017	Gear Shaft		1
018	JWBS14SFX-018	Gear		1
019	JWBS14SFX-019	Motor Assembly	1.75HP, 115V/230V	1
	JWBS14SFX-019WD	Wiring Diagram (not shown)		1
	LM000333	Motor Label, JWBS-14SFX (not shown)		1
	JWBS14SFX-019MF	Motor Fan (not shown)		1
	JWBS14SFX-019RC	Running Capacitor (not shown)	40µF, 450V	1
	JWBS14SFX-019JB	Junction Box (not shown)		1
	JWBS14SFX-019JBC	Junction Box Cover (not shown)		1
020	JWBS14SFX-020	Shaft		1
021	JWBS14SFX-021	Blade	116.25"x5/8" x 0.025" x 4 TPI	1
022	JWBS14SFX-022	Door Lock Knob		2
023	JWBS14SFX-023	Knob		1
024	JWBS14SFX-024	Power Cord	14AWGx3C, 5-15 plug	1
025	JWBS14SFX-025	Handwheel		1
026	JET-138R900	Jet Logo with Adhesive	5-7/16" x 2-1/4"	1
027	JWBS14SFX-027	Wood Insert	70x113x7.5 mm	1
028	JWBS14SFX-028	Tension Handle and Grip		1
029	JWBS14SFX-029	Switch Assembly (#029-1 thru 029-6)		1
	JWBS14SFX-029-1	Paddle Button (not shown)		1
	JWBS14SFX-029-2	STOP Button (not shown)		1
	JWBS14SFX-029-3	START Button (not shown)		1
	JWBS14SFX-029-4	Support (not shown)		1
	JWBS14SFX-029-5	Panel (not shown)		1
	JWBS14SFX-029-6	Push Button Switch (not shown)		1
030	JWBS14SFX-030	Shaft		1
031	JWBS14SFX-031	Upper Guide Mount		2
032	JWBS14SFX-032	Upper Guide Square Tube		1
033	JWBS14SFX-033	Tension Indicator Plate		1
034	JWBS14SFX-034	Handle		1
035	JWBS14SFX-035	Tension Pulley		1
036	JWBS14SFX-036	Upper Guide Rack		1
037	JWBS14SFX-037	Blade Guard Cover		1
038	JWBS14SFX-038	Guide Pointer		1
039	JWBS14SFX-039	Plate		1
040	TS-1504031	Socket Head Cap Screw	M8x16	13
041	TS-1501011	Socket Head Cap Screw	M4X6	2
042	TS-1504061	Socket Head Cap Screw	M8x30	1
043	TS-1502051	Socket Head Cap Screw	M5x20	3
044	TS-1503031	Socket Head Cap Screw	M6x12	6
045	TS-1503041	Socket Head Cap Screw	M6x16	5
046	TS-1502021	Socket Head Cap Screw	M5x10	6
047	TS-1502071	Socket Head Cap Screw	M5x30	2

Index No	Part No	Description	Size	Qty
048	TS-2244162	Socket Head Button Screw	M4x16	2
049	TS-2361081	Lock Washer	8mm	9
050	TS-2361061	Lock Washer	6mm	4
051	TS-2361101	Lock Washer	10mm	3
052	TS-1550061	Flat Washer	8mm	5
053	TS-1550041	Flat Washer	6mm	5
054	TS-1550071	Flat Washer	10mm	4
055	JWBS14SFX-051	Cutting Height Scale		1
056	TS-1550021	Flat Washer	4mm	2
057	TS-1550041	Flat Washer	6mm	5
058	TS-1550061	Flat Washer	8mm	5
059	F010422	Socket Set Screw, CPP	M10x50	1
060	TS-1523041	Socket Set Screw	M6x12	6
061	TS-1522011	Socket Set Screw	M5x6	3
062	TS-1523011	Socket Set Screw	M6x6	2
063	JWBS14SFX-063	Lower Wheel Assembly (#63-1 thru 63-2)		1
063-1	JWBS14SFX-063-1	Lower Wheel		1
063-2	JWBS14SFX-063-2	Tire		1
064	JWBS14SFX-064	Upper Wheel Assembly (#64-1 thru 64-4)		1
064-1	JWBS14SFX-064-1	Upper Wheel		1
064-2	JWBS14SFX-064-2	Tire		1
064-3	BB-6203ZZ	Bearing	6203/2RZ	2
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
071	JWBS14SFX-071	Blade Tension Shaft		1
072	JWBS14SFX-072	Connector Nut		1
073	JWBS14SFX-073	Belt Tension Shaft		1
074	JWBS14SFX-074	Knob		2
075	JWBS14SFX-075	Shaft		2
076	JWBS14SFX-076	Cord Clip		1
077	JWBS14SFX-077	Slotted Head Screw		1
078	JWBS14SFX-078	Sight Glass		2
079	JWBS14SFX-079	Spring		1
080	JWBS14SFX-080	Bolt		3
081	JWBS14SFX-081	Brush		1
082	JWBS14SFX-082	Spacer Bushing		1
083	JWBS14SFX-083	Lower Door		1
084	JWBS14SFX-084	Screw		1
085	JWBS14SFX-085	Collar		1
086	JWBS14SFX-086	Handwheel		1
087	JWBS14SFX-087	Lock Handle		1
088	JWBS14SFX-088	Sleeve A		1
089	JWBS14SFX-089	Sleeve B		1
090	JWBS14SFX-090	Cover		1
091	JWBS14SFX-091	Thread Tube		1
092	JWBS14SFX-092	Collar		1
093	JWBS14SFX-093	Upper Guide Insert		1
094	JWBS14SFX-094	Washer A		2
095	JWBS14SFX-095	Washer B		2
096	JWBS14SFX-096	Plate		1
097	JWBS14SFX-097	Spring Plate		1
098	JWBS14SFX-098	Cover A		1
099	F009875	Socket Head Button Screw	M4x8	22
100	F009884	Socket Head Button Screw	M5x8	5
101	TS-2246082	Socket Head Button Screw	M6x8	1
102	JWBS14SFX-102	Rivet	4x8mm	8
103	TS-2284082	Pan Head Machine Screw	M4x8	6

Index No	Part No	Description	Size	Qty
104	JWBS14SFX-104	Push Stick, Red		1
105	VB-A880	V-Belt	A-880	1
106	TS-154010	Hex Nut	M16	1
107	TS-1540081	Hex Nut	M12	3
108	TS-2311081	Hex Nut	M8	1
109	TS-1540041	Hex Nut	M6	2
110	TS-1532052	Pan Head Machine Screw	M4x16	1
111	TS-2360121	Flat Washer	12mm	1
112	TS-1540021	Hex Nut	M4	1
113	TS-1503061	Socket Head Cap Screw	M6x25	1
114	BB-6205ZZ	Ball Bearing	6205/2RZ	2
115	BB-6001ZZ	Ball Bearing	6001/2RZ	1
116	TS-2276081	Socket Set Screw	M6x8	2
117	JWBS14SFX-117	Bearing Guide Rod		2
118	TS-1550021	Flat Washer	4mm	6
119	JWBS14SFX-119	Sleeve		1
120	TS-1541031	Nylon Lock Hex Nut	M8	1
121	TS-1541011	Nylon Lock Hex Nut	M5	2
122	JWBS14SFX-122	Carriage Bolt	M8x105	1
123	F014011	Key, Dbl Rd Hd	8x50mm	1
124	6294761	Key, Dbl Rd Hd	6x45mm	1
125	JWBS14SFX-125	Nylon Lock Hex Nut, LH thds	M18 Left	1
126	TS-2360181	Flat Washer	18mm	2
127	F006029	C-Retaining Ring, Internal	28mm	2
128	TS-1524061	Socket Set Screw	M8x25	1
129	JWBS14SFX-129	Hex Nut	M18-1.5	1
130	JWBS14SFX-130	Strain Relief	M20-1.5	2
131	JWBS14SFX-131	Upper Door Assembly (#131-1 thru 131-3)		1
131-1	JWBS14SFX-131-1	Upper Door		1
131-2	JWBS14SFX-131-2	Rivet	4x8mm	4
131-3	JWBS14SFX-131-3	Sight Glass		1
132	TS-1502021	Socket Head Cap Screw	M5x10	4
133	JWBS14SFX-133	Upper Guide Base		1
134	TS-1503051	Socket Head Cap Screw	M6x20	3
135	JWBS14SFX-135	Bearing Nut		1
136	BB-61900ZZ	Ball Bearing	61900/2RZ	5
137	TS-1550041	Flat Washer	6mm	1
138	JWBS14SFX-138	Lock Nut		2
139	JWBS14SFX-139	Eccentric Shaft		2
140	JWBS14SFX-140	Bearing Bushing		2
141	TS-1503031	Socket Head Cap Screw	M6x12	1
142	JWBS14SFX-142	Table		1
143	JWBS14SFX-143	Lower Table Trunnion		1
144	JWBS14SFX-144	Upper Table Trunnion		2
145	JWBS14SFX-145	Fence Base Assembly		1
146	F009884	Socket Head Button Screw	M5x8	1
147	JWBS14SFX-147	Fence Guide		1
148	JWBS14SFX-148	Connecting Plate		1
149	JWBS14SFX-149	Fence Body		1
150	JWBS14SFX-150	Table Insert		1
151	JWBS14SFX-151	Table Pin		1
152	JWBS14SFX-152	Fence		1
153	TS-1550031	Flat Washer	5mm	1
154	TS-1550061	Flat Washer	8mm	6
155	TS-1550071	Flat Washer	10mm	2
156	JWBS14SFX-156	Lock Bar		1
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

Index No	Part No	Description	Size	Qty
163	F009884	Socket Head Button Screw	M5x8	14
164	TS-2246082	Socket Head Button Screw	M6x8	4
165	JWBS14SFX-165	Adjustable Handle		1
166	JWBS14SFX-166	Pointer		1
167	JWBS14SFX-167	Guide Plate, Screw		1
168	JWBS14SFX-168	Cursor		1
169	JWBS14SFX-169	Cap		2
170	JWBS14SFX-170	Cap A		1
171	JWBS14SFX-170	Cap B		1
172	JWBS14SFX-172	Cap D (Round)		2
173	JWBS14SFX-173	Plate		1
174	JWBS14SFX-174	Left Cap for Fence Body		1
175	JWBS14SFX-172	Right Cap for Fence Body		1
176	JWBS14SFX-176	Adjustable Handle		2
177	JWBS14SFX-177	Chain		1
178	JWBS14SFX-178	Pin		1
179	F011652	Self-Tapping Screw	#8x3/8"	4
180	JWBS14SFX-180	Flat Head Machine Screw	M4x5	2
181	JWBS14SFX-181	T-Bolt	M8x25	3
182	TS-1550061	Flat Washer	8mm	3
183	TS-2311081	Hex Nut	M8	4
184	TS-2311101	Hex Nut	M10	2
185	F009484	Hex Cap Screw	M8x65	1
186	TS-1550031	Flat Washer	5mm	1
187	TS-1550071	Flat Washer	10mm	2
189	F006090	E-Retaining Ring	7mm	1
190	TS-1503051	Socket Head Cap Screw	M6x20	4
191	TS-1505061	Socket Head Cap Screw	M10x40	2
192	TS-1503031	Socket Head Cap Screw	M6x12	4
193	TS-2361101	Lock Washer	10mm	2
194	JWBS14SFX-194	Scale A		1
195	JWBS14SFX-195	Scale B		1
196	JWBS14SFX-196	Adjustable Handle		2
197	TS-1540041	Hex Nut	M6	2
198	TS-1523051	Socket Set Screw	M6x16	1
199	TS-1503041	Socket Head Cap Screw	M6x16	2
200	TS-1550041	Flat Washer	6mm	2
201	JWBS14SFX-201	Guide Base, Lower Guide		1
202	JWBS14SFX-202	Nut, Bearing		2
203	TS-1550041	Flat Washer	6mm	4
204	BB-6201ZZ	Ball Bearing	6201/2RZ	3
205	JWBS14SFX-205	Sleeve B		2
206	TS-1503051	Socket Head Cap Screw	M6x20	3
207	JWBS14SFX-207	Guard Right, Lower Guide		1
208	JWBS14SFX-208	Guard Left, Lower Guide		1
209	TS-1550031	Flat Washer	5mm	2
210	TS-1502021	Socket Head Cap Screw	M5x10	4
211	TS-1504051	Socket Head Cap Screw	M8x25	1
212	TS-1550061	Flat Washer	8mm	1
213	JWBS14SFX-213	Sleeve		1
214	JWBS14SFX-430	Guide Rod, Bearing		1
	JWBS14SFX-300	Miter Gauge Assembly (#301 thru 322)		1
301	JWBS14SFX-301	Miter Gauge Handle		1
302	TS-1550061	Flat Washer	8mm	1
303	JWBS14SFX-303	Miter Gauge		1
304	TS-1534041	Flat Head Machine Screw	M5x10	1
305	JWBS14SFX-305	Pointer		1
306	JWBS14SFX-306	Pointer Base		1
307	JWBS14SFX-307	Shaft		1
308	JWP208-053A	Flat Head Machine Screw	M5x8	1
309	JWBS14SFX-309	Washer		1
310	JWBS14SFX-310	Screw		1

Index No	Part No	Description	Size	Qty
311	JWBS14SFX-311	Sliding Guide		1
312	TS-2284202	Pan Head Machine Screw	M4x20	3
313	TS-1540021	Hex Nut	M4	3
314	JWBS14SFX-314	Scale		1
315	TS-1533032	Pan Head Machine Screw	M5x10	2
316	JWBS14SFX-316	Cap A		1
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
322	F011652	Self-Tapping Screw	#8x3/8"	2
	LM000330	ID Label, JWBS-14SFX (not shown)		1
	LM000331	Warning Label, JWBS-14SFX (not shown)		1
	JET750-55	Hex wrench (not shown)	2.5mm	1
	TS-152705	Hex wrench (not shown)	4mm	1
	TS-152706	Hex wrench (not shown)	5mm	1
	TS-152707	Hex wrench (not shown)	6mm	1
	LM000332	Quick Release Label, JWBS-14SFX (not shown)		1

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

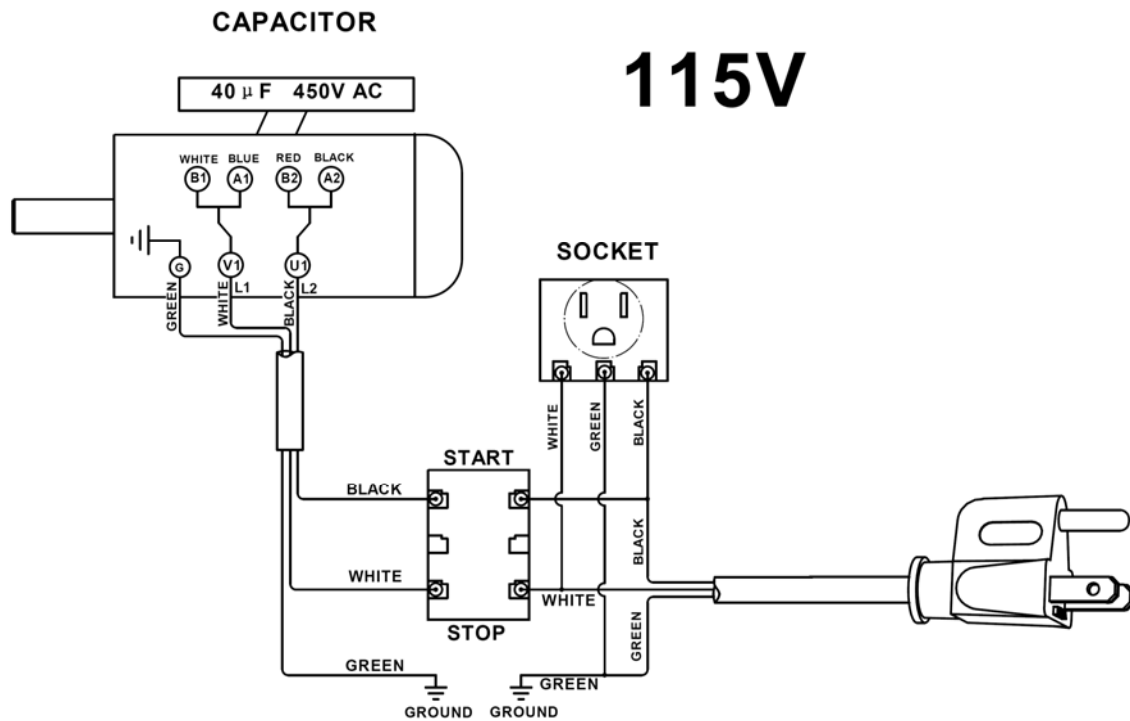
Index No	Part No	Description	Size	Qty
	714402	Band Saw Stand Assembly (#401 thru 407)		1
401	TS-1503021	Socket Head Cap Screw	M6x10	4
402	TS-1504121	Socket Head Cap Screw	M8x60	4
403	TS-2311081	Hex Nut	M8	4
404	TS-1550041	Flat Washer	6mm	4
405	TS-1550061	Flat Washer	8mm	8
406	JWBS14SFX-406	Stand Body		1
407	JWBS14SFX-407	Stand Cover		1

13.1.7 JWBS-14LIT Light Kit (#714403) – Parts List (Optional Accessory)

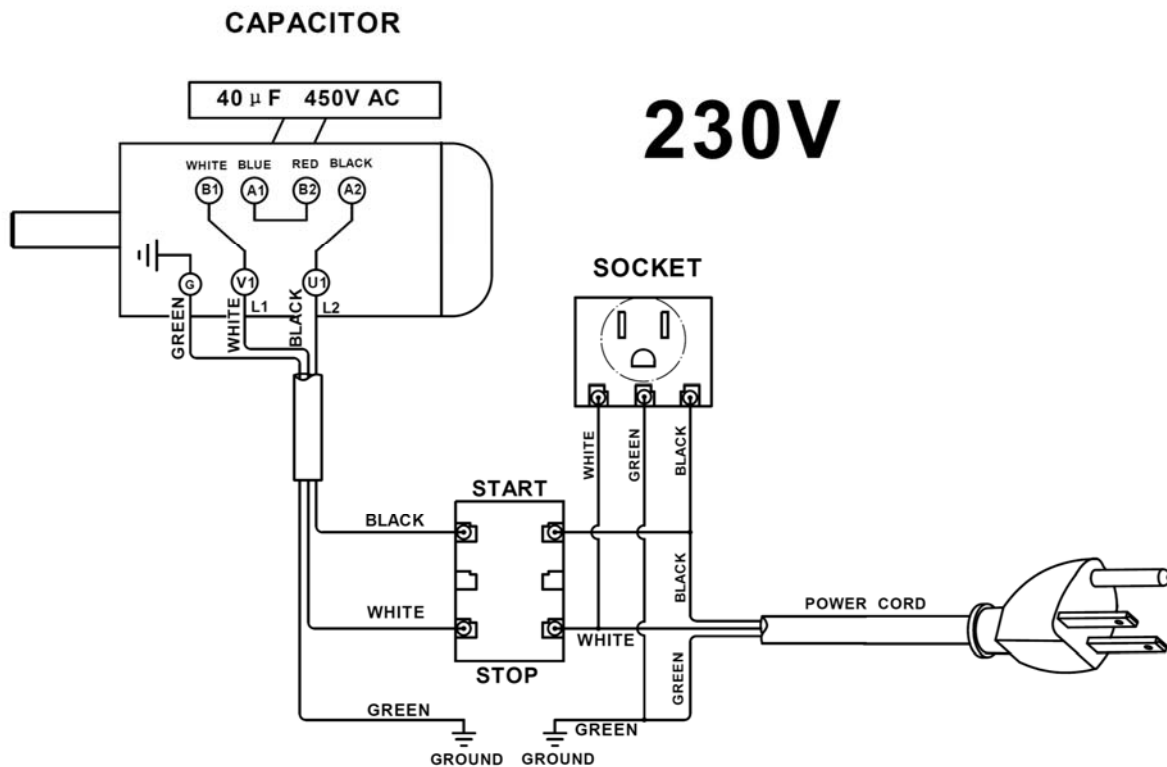
	714403	Band Saw Light Kit (#501 thru 503)		1
501	JWBS14SFX-503	Light Kit (110V—230V)		1
502	TS-1502041	Socket Head Cap Screw	M5x16	4
503	TS-152705	Hex Wrench	4mm	1
	LM000338	ID Label, JWBS-14LIT (not shown)		1

14.0 Electrical Connections

14.1 Electrical Connections for 1.75HP, 1PH, 115V only (model #714400)



14.2 Electrical Connections for 1.75HP, 1PH, 230V only (model #714400)



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.

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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

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