

INSTRUCTION MANUAL | MANUAL DE INSTRUCTIONES

9" (228 MM) BAND SAW 9" (228 MM) SIERRA DE CINTA PARA BRANCO



CMXEBAR600

WWW.CRAFTSMAN.COM



1-888-331-4569

IF YOU HAVE QUESTIONS OR COMMENTS, CONTACT US. SI TIENE DUDAS O COMENTARIOS, CONTÁCTENOS.

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Definitions: Safety Alert Symbols and Words

This instruction manual uses the following safety alert symbols and words to alert you to hazardous situations and your risk of personal injury or property damage.



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

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

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

(Used without word) Indicates a safety related message.

NOTICE: Indicates a practice not related to personal injury which, if not avoided, may result in property damage.

Fig. A





WARNING: Read all safety warnings and all

instructions. Failure to follow the warnings and

WARNING: To reduce the risk of injury, read the

Damage or personal injury could result.

If you have any questions or comments about this

serious injury.

instruction manual.

instructions may result in electric shock, fire and/or

WARNING: Never modify the product or any part of it.

COMPONENTS

- 1 Blade tension knob
- 2 Upper blade wheel
- 3 Upper cover lock knob
- 4 Blade guide height adjustment knob
- 5 Blade guard
- 6 Upper blade guide
- 7 Miter gauge
- 8 Table aligning bolt
- 9 Lower blade guide
- 10 Lower cover lock knob
- 11 Lower blade wheel
- 12 Lower wheel cover

- 13 Wheel brush
- 14 ON/OFF switch
- 15 Upper wheel cover
- 16 Blade tracking knob
- 17 Power cord
- 18 Motor
- 19 Table lock handle
- 20 Sawdust port
- 21 Table tilt adjustment knob
- 22 Table tilt scale
- 23 Table
- 24 Blade
- 25 Upper guide lock knob

product, call CRAFTSMAN toll free at: 1-888-331-4569.

9" (228 MM) BAND SAW CMXEBAR600

GENERAL POWER TOOL SAFETY WARNINGS



WARNING: Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mainsoperated (corded) power tool or battery-operated (cordless) power tool.

1) Work Area Safety

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical Safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

3) Personal Safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- *g)* If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

4) Power Tool Use and Care

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/ or remove the battery, pack if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SAFETY INSTRUCTIONS FOR BAND SAW

- To avoid injury from unexpected movement, make sure the saw is on a firm, level surface and properly secured to prevent rocking. Make sure there is adequate space for operating. Bolt the saw to a support surface to prevent slipping, walking or sliding during operation.
- Unplug and turn the saw off before moving it.
- Use the correct size and style of blade.
- Use blades rated at 2500 FPM or greater.
- Make sure the blade teeth point down and towards the table when installed on unit.
- Blade guides, support bearings and blade tension must be properly adjusted to avoid accidental blade contact and to minimize blade breakage. To maximize blade support, always adjust the upper blade guide and blade guard so that it is 1/8 inch (3.2 mm) above the workpiece.
- Table lock handle should be tight.
- Use extra caution with large, very small or awkward workpieces.
- Use extra supports to prevent workpieces from sliding off the table top. Never use another person to support the workpiece.
- Workpieces must be secured so they do no twist, rock or slip while being cut.

- **Plan** intricate and small work carefully to avoid pinching the blade. Avoid awkward operation and hand positions to prevent accidental contact with the blade.
- Small pieces should be secured with jigs or fixtures. Do
 not hold pieces that are so small your fingers are under the
 blade guard.
- Support round work properly (with a V-block or clamped to the miter gauge) to prevent it from rolling and the blade from biting.
- Cut only one workpiece at a time. Make sure the table is clear of everything except the workpiece and guides before turning the saw on.
- Always watch the saw run before each use. If there is excessive vibration or unusual noise, stop immediately. Turn the saw off. Unplug immediately. Do not start the saw again until the problem has been identified and corrected.
- **To free** any jammed material, turn the switch off. Remove the switch key and unplug the saw. Wait for all moving parts to stop before removing jammed material.
- **Do not leave** the work area until all moving parts are stopped. To childproof the workshop, shut off power to master switches and remove the switch key from the band saw. Store it in a safe place, away from children.

WARNING: For your own safety, read the entire Instruction Manual before using the band saw.

- Wear eye protection.
- Do not wear gloves, neckties or loose clothing.
- Make sure the saw is on a firm level surface and properly secured.
- Use only the recommended accessories.
- Use extra caution with very large, very small or awkward workpieces.
- Keep hands away from the blade at all times to prevent accidental injury.
- Do not remove jammed or cutoff pieces until the blade has stopped.
- Maintain proper adjustment of blade tension, blade guides and thrust bearings.
- Hold the workpiece firmly against the table.
- Adjust the upper guide to clear the workpiece.

PROPOSITION 65 WARNING



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

Some examples of these chemicals are:

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

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

Handling the power cord on this product may expose you to chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

For more information go to: www.P65Warnings.ca.gov



READ INSTRUCTION MANUAL: To reduce the risk of injury, user and all bystanders must read instruction manual before using this product.

Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may

promote absorption of harmful chemicals.



WARNING: Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.



WARNING: Always wear proper personal hearing protection that conforms to ANSI S12.6 (S3.19) during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.



CAUTION: When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. Some tools will stand upright but may be easily knocked over.

 Air vents often cover moving parts and should be avoided. Loose clothes, jewelry or long hair can be caught in moving parts.

ELECTRICAL SPECIFICATIONS AND SAFETY

Power supply and motor specifications

WARNING: To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Use a separate electrical circuit for your tool. Your saw is wired at the factory for 120 V operation. Connect to a 120 V, minimum 10 Amp circuit and use a 10 Amp time delay fuse or circuit breaker. To avoid shock or fire, if power cord is worn, cut, or damaged in any way, have it replaced immediately.

Grounding instructions



WARNING: This tool must be grounded while in use to protect the operator from electrical shock.

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric currents and reduces the risk of electric shock. This tool is equipped with an electrical cord that has an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching receptacle 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 receptacle, have the proper receptacle installed by a qualified electrician.

Improper connection of the equipment grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electrical cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.

Check with a qualified electrician or service person if you do not completely understand the grounding instructions, or if you are not certain the tool is properly grounded.

USE only 3-wire extension cords that have three-pronged grounding plugs with three-pole receptacles that accept the tool's plug. Repair or replace damaged or worn cords immediately.

Use a separate electrical circuit for your tool. This circuit must not be less than #16 wire and should be protected with a minimum 10 Amp circuit time lag fuse. Before connecting the motor to the power line, make sure the switch is in the off position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

Guidelines for extension cords

Use the proper extension cord. Make sure your extension cord is in good condition. Use an extension cord 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, overheating and burning out of the motor. The table below shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord. Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified technician before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Mi	nimum G	iauge for	Extensior	n Cords (A	WG)	
Vo	olts	Total Length of Cord in Feet (meters)				
12	0 V	25 (7.6) 50 (15.2) 100 (30.5) 150 (45.7)				
24	0 V	50 (15.2) 100 (30.5) 200 (61.0) 300 (91.4)				
Ampere More Than	e Rating Not More Than	a American Wire Gauge			je	
0	6	18	16	16	14	
6	10	18	16	14	12	
10	12	16	16	14	12	
12	16	14 12 Not Recommended				



WARNING: This tool is for indoor use only. Do not expose to rain or use in damp locations.

This tool is intended for use on a circuit that has a receptacle like the one illustrated in Fig. B. Fig. B shows a three-pronged electrical plug and receptacle that has a grounding conductor. If a properly grounded receptacle is not available, an adapter (Fig. C) can be used to temporarily connect this plug to a twocontact grounded receptacle. The adapter (Fig. C) has a rigid lug extending from it that MUST be connected to a permanent earth ground, such as a properly grounded receptacle box.



CAUTION: In all cases, make certain the receptacle is properly grounded. If you are not sure, have a qualified electrician check the receptacle.

Fig. B



The label on your tool may include the following symbols. The symbols and their definitions are as follows:

V	volts	abla or AC/DC	alternating or
Hz	. hertz	_	direct current
min	minutes	□	Class II
——————————————————————————————————————	direct current Class I Construction (grounded)	n ₀	Construction (double insulated) no load speed
/min	per minute	n	rated speed
BPM	beats per minute	₽	earthing terminal
IPM	impacts per minute	A	safety alert symbol
RPM	revolutions per	<u>A</u>	visible radiation
	minute		avoid staring at
sfpm	. surface feet per		light
	minute	£	wear respiratory
SPM	strokes per minute	\bigcirc	protection
OPM	oscillations per minute		wear eye protection
Α	amperes	0	wear hearing protection
••• ••• ••• ••• ••• ••• ••• ••• ••• ••	alternating current	8	read all documentation

SAVE THESE INSTRUCTIONS FOR FUTURE USE

Motor

Be sure your power supply agrees with the nameplate marking. Voltage decrease of more than 10% will cause loss of power and overheating. These tools are factory tested; if this tool does not operate, check power supply.

TOOLS NEEDED FOR ASSEMBLY

Supplied

Not supplied

2 mm hex wrench



Phillips Screwdriver

Adjustable Wrench

4 mm hex wrench



Open end wrench



Feeler gauge (size 0.02 in.)

CARTON CONTENTS

Unpacking And Checking Contents

Carefully unpack the band saw and all its parts, and compare against the list below and the illustration. With the help of an assistant, place the saw on a secure surface and examine it carefully.



WARNING: To avoid injury from unexpected starting or electrical shock, do not plug the power cord into a source of power during unpacking and assembly. The cord must remain unplugged whenever you are adjusting/assembling the saw.



WARNING: The saw is heavy and should be lifted with care. If needed, get the assistance of someone to lift and move the saw.



WARNING: If any part is missing or damaged, do not attempt to assemble the band saw, or plug in the power cord until the missing or damaged part is correctly replaced.

Table of Loose Parts

ITEM	DESCRIPTION	Q'TY
А.	Band saw	1
В.	Instruction manual	1
C.	Miter gauge	1
D.	Hardware bag	
	Table lock handle	1
	washer	1
	Open end wrench	1
	2 mm hex wrench	1
	4 mm hex wrench	1
E.	Band saw table assembly	1

UNPACKING YOUR BAND SAW



А





С







D

E



WARNING: Many illustrations in this manual show only portions of the Band Saw. This is international so that points being made in the illustrations can be highlighted. Never operate the saw without all guards securely in place and in good operating condition.

ASSEMBLY AND ADJUSTMENTS

Estimated Assembly Time: 50 - 60 minutes



WARNING: For your safety, never connect plug to power source receptacle until all assembly and adjustment steps are complete, and you have read and understood the safety instructions.

Installing The Band Saw Table (Fig. D, E, F)

- Bag "E" Loosen the table aligning bolt 8 and remove the table aligning nut 26 from the table. (Fig. D)
- 2. Guide the table slot 27 over the saw blade 24. (Fig. E)
- Turn the scale pointer 28 down clockwise and place the table by aligning the slot 29 of table tilt scale 22 with two pins 30, then pull the table tilt adjustment knob 21 out and the teeth of table tilt scale 22 engage with the teeth of the table tilt adjustment knob 21 as shown on Fig. F.
- Bag "D" Insert the table lock handle 19 through the washer 31 and into the hole 32, tighten the table lock handle 19.
- Turn the scale pointer 28 back and tighten it with a hex wrench. Adjust the table by aligning the zero scale mark to the scale pointer 28.
- Replace the table aligning nut 26 back into the place and tighten with the table aligning bolt 8. (Fig. D)

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Fig. D
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Fig. E





Installing And Removing Blade (Fig. G, H)



WARNING: To avoid injury from accidental starting, always turn the switch OFF and remove the plug from the power source before moving, replacing, or adjusting the blade.

Removing (Fig. G, H)

- Loosen the blade tension by turning the blade tension knob 1 counterclockwise. (Fig. G)
- Open the upper wheel cover **15** and lower wheel cover **12** by rotating the upper cover lock knob **3** and lower cover lock knob **10**.
- 3. Remove the table aligning pad from the table.
- 4. Loosen the upper guide lock knob **25** on the rear side of the band saw by turning it counterclockwise. (Fig. H)
- Lower the upper blade guide 6 to its lowest position by turning the blade guide height adjustment knob 4.
- 6. Pull and open the blade guard **5** as shown in Fig. H.
- Remove the blade 24 from the upper blade guide 6 and lower blade guide 9.
- Carefully pull the blade 24 from the table slot 27 and from the upper blade wheel 2 and lower blade wheel 11.
- Hold the blade 24, slide it out from the left side blade guard slot 33.







Installing (Fig. G, H)

- Make sure the blade tension knob 1 is turned counterclockwise enough to get blade over pulleys. (Fig. G)
- 2. Remove old blade as explained in "Removing" section.
- Guide the new blade 24 through the blade guard slot 33 of the left side blade guard. Make sure the blade teeth are pointing forward and down. (Fig. H) NOTE: To avoid lifting the workpiece, the blade teeth must point downward toward the table.
- Place the blade 24 on the upper blade wheel 2 and lower blade wheel 11.
- Place the blade carefully between the upper blade guide 6 and lower blade guide 9.
- 6. Slide the blade into the table slot **27**, and make sure the blade is positioned at the middle of the wheels.
- Turning the blade tension knob
 Clockwise, tighten the tension until the blade is tight on the wheels. (Fig. G)
- Close the blade guard S, and raise the blade guard to the desired height by turning the blade guide height adjustment knob (4). (Fig. H)
- 9. Tighten the upper blade guide lock knob 25.
- 10. Replace the table aligning pad.
- Adjust the blade tracking and tension properly (See Adjustment Instructions section) before operating the band saw.



WARNING: To avoid injury, the blade tension, tracking, upper and lower guides and bearings must be properly adjusted before operating the band saw. (See **Adjustment Instructions** section)

WARNING: Before operation always make sure the blade is in center of table insert slot.

Installing A New Belt (Fig. I)

- 1. Open the lower wheel cover.
- 2. Loosen the blade tension by turning the blade tension knob.
- 3. Remove the blade from the lower blade wheel assembly.
- Using a snap ring pliers, remove snap ring 34 that secures lower blade wheel 11 to shaft 35 and flange 36 on the lower blade wheel.
- Loosen the belt tension by loosen the hex screw on the motor with a 6 mm hex wrench. See "Drive Belt Tension" on page 13.
- Slide lower blade wheel assembly off the shaft 35 which will dislodge the belt. Remove the old belt.
- 7. Place the new belt on the saw pulley and the motor pulley.
- 8. When the pulley belt is positioned properly, tighten the hex screw on the motor.

NOTE: The pulley belt is properly tensioned when there is a 1/2 in. (12.7 mm) deflection if pressed in the center of the pulleys.

- 9. Replace the lower blade wheel **11**. Push the wheel in firmly until it is touching the shaft step. Replace and tighten the flange **36** and snap ring **34**.
- 10. Reinstall the blade. See "Installing And Removing Blade - Installing" section on page 10.
- 11. Adjust the blade tension, tracking, the upper and lower blade guides and bearings before operating the band saw.



WARNING: To avoid injury, the blade tension, tracking, upper and lower guides and bearings must be properly adjusted before operating the band saw. (See Adjustment Instructions section)

Fig. I



Adjustment Instructions



WARNING: To avoid injury, turn the switch OFF and unplug the band saw from the power source before making any adjustments.

Table Adjustments (Fig. J)

Tilting the table

The band saw table can be tilted from 0° to 45° right.

- 1. Loosen the table lock handle **19** on the rear side of the band saw.
- 2. Tilt the table to the desired angle on the table tilt scale **22**.
- 3. Tighten the table lock handle 19.

Adjusting the 90° table stop

- 1. Loosen the table lock handle **19** and tilt the table to the right.
- 2. Loosen the nut **37** on the table stop bolt **38** and lower the table stop bolt **38** as far as possible.
- 3. Place a combination square **39** on the table with the heel of the square against the saw blade **24**.
- Rise or lower the table stop bolt 38 to adjust the table until it is 90° to the blade. Make sure there is no space between the square and the blade. Tighten the nut 37.
- 5. Check the square again to make sure the table is 90° to the blade. If not, re-adjust the stop bolt **38**.
- 6. Lock table lock handle 19.
- 7. When the adjustment is accurate at 90°, align the scale pointer **28** to 0° on the table tilt scale **22**.

Fig. J



Blade Tension (Fig. K)



WARNING: To avoid injury, turn the switch OFF and disconnect the saw from the power source before making any adjustments. **NEVER** make tension adjustments with the machine running.



WARNING: Blade tension was set at the factory. When adjustment is needed please follow the procedure below.

- 1. Turn the blade tension knob 1 clockwise to tighten the blade, counterclockwise to loosen.
- As you become familiar with the saw, you may try to change the tension settings.
 NOTE: Changes in blade width and type of material being cut will have an effect on the blade tension. Too much or too little tension could break the blade

Fig. K



Blade Tracking (Fig. L)



WARNING: To avoid injury, turn the switch OFF and disconnect the saw from the power source before making any adjustments. **NEVER** make tracking adjustments with the machine running.

Blade tracking was set at the factory. When adjustments is needed please follow the procedure below.

Tracking refers to how the blade is situated upon the wheels while in motion. The blade should track in the center of both wheels.

The blade must be slightly tensioned before adjusting blade tracking. Make sure blade guides and bearings do not interfere with blade.

- 1. Open upper and lower doors. Hand rotate upper wheel slowly and observe the position of blade on the wheel. Blade should be in the center of the wheel.
- 2. If adjustment is necessary, loosen the lock handle **40** on the rear of the band saw and make adjustment with blade tracking knob **16**.
- 3. If the blade moves toward the front of the wheel, turn the blade tracking knob **16** clockwise. This tilts the top of the wheel and moves the blade toward the center.
- If the blade moves toward the back edge, turn the blade tracking knob **16** counterclockwise, moving the blade toward the center.
- 5. After blade is tracking in the center of the wheel, tighten the lock handle **40**.

Fig. L



Upper Blade Guide Positioning (Fig. L)

WARNING: To avoid injury, turn the switch OFF and disconnect the saw from the power source before making any adjustments. **NEVER** make adjustments with the machine running.

The upper blade guide assembly **41** should be adjusted to just above the material being cut. To adjust:

 Loosen the upper guide lock knob 25 and raise or lower the upper blade guide assembly 41 by turning blade guide height adjustment knob 4.

Upper Blade Guides And Blade Support Bearing (Fig. M, N)



WARNING: The blade guard has been removed for clarity of illustration. To avoid injury, never operate the band saw without all guards in place and in working order.



WARNING: To avoid injury, turn the switch OFF and disconnect the saw from the power source before making any adjustments. **NEVER** make adjustments with the machine running.

NOTE: Make sure the blade is tensioned and tracking properly. Adjust the blade guides and support bearing after each blade tension and tracking adjustment. When the upper blade guides and support bearings are adjusted, the lower guides and bearings should also be adjusted.

Blade guides (Fig. M, N)

Blade guides have been set at the factory but should be checked.

- 1. Make sure the blade is tensioned and tracking properly.
- Loosen the two front hex socket screws 42 with a 2 mm hex wrench. (Fig. M)
- Move the two guide pins 43 as close to the blade 24 as possible without pinching it.

- Using a feeler gauge, make sure the space between guide pins and the blade measured is 0.002 in. (0.05 mm the thickness of a dollar bill).
- 5. Tighten the front hex socket screws 42.
- Loosen the side hex screw 44 by turning counterclockwise with a 4 mm hex wrench supplied. (Fig. N)
- Move the upper blade guide 6 in or out until the guide pins 43 are just behind the blade teeth.
- 8. Tighten the side hex screw 44.

Support bearing (Fig. N)

Support bearing has been set at the factory but should be checked.

 Loosen the hex screw 45, adjust the support bearing 46 in or out until the bearing is 1/64 in. (0.4 mm) behind the blade.

NOTE: This blade support bearing prevents the blade from moving back too far and damaging the saw teeth setting.

- 2. Check the position of blade, it should be positioned within the face of the support bearing **46**.
- 3. Tighten the hex screw 45.





Fig. N



Lower Blade Guides And Support Bearing (FIG. 0, P, Q)



WARNING: To avoid injury, turn the switch OFF and disconnect the saw from the power source before making any adjustments. **NEVER** make adjustments with the machine running.

NOTE: Make sure the blade is tensioned and tracking properly. The lower blade guides and support bearings should always be adjusted after the blade is tensioned, the tracking is adjusted, and the upper blade guides and upper support bearings are properly adjusted.

Blade guides (Fig. O, P)

- 1. Loosen two front hex socket screws **42** with a hex wrench. (Fig. O)
- Move the guide pins 43 as close to the sides of the blade 24 as possible without pinching it.
- Using the feeler gauge, measure the spaces between the guide pins and the blade. Adjust to 0.002 in. (0.05 mm).
- 4. Tighten two front hex socket screws 42.
- Loosen two lock screws **47**, move the lower blade guide **9** in or out until the guide pins (**43** -Fig. O) are just behind the saw teeth. Tighten two lock screws **47**. (Fig. P)

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Fig. O
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Fig. P



Support bearing (Fig. Q)

- 1. Loosen the support bearing hex screw **44** on the right side of the band saw with the hex wrench.
- 2. Move the support bearing shaft **48** in or out until the support bearing **49** is 1/64 in. (0.4 mm) behind the saw blade.
- 3. Tighten the support bearing hex screw 44.
- The back edge of the blade 24 should be positioned 1/16 in. (1.6 mm) to 1/8 in. (3.2 mm) from the surface of the support bearing 49.

Fig. Q



Drive belt tension (Fig. R)

- 1. Disconnect the machine from the power source.
- Loosen the hex socket screw (50) on the motor with a 6 mm wrench. Do not remove the hex socket screw (50).
- 3. Push the motor down to add tension to belt. Move the motor up to loose tension to belt.
- The belt is properly tensioned when moderate finger pressure on the belt between the two pulleys causes a 1/2 in. deflection.
- 5. Tighten the hex socket screw **50** that secures motor.

Fig. R



OPERATION

Basic Saw Operations

"ON/OFF" Switch (Fig. S)

The switch with safety key is intended to prevent unauthorized us of the band saw.

- To turn the band saw ON, insert the black safety key 51 into the key slot in the center of the switch 14.
- Push the key firmly into the slot, then push the switch 14 to the ON position to start the band saw.
- To turn the band saw OFF, push the switch 14 to OFF position.
- 4. Remove the black safety key **51** by pulling it outward when the saw is complete stop.

WARNING: Remove the black safety key whenever the saw is not in use. Place it in a safe place and out of reach of children.

Fig. S



General Cutting



WARNING: For your safety, read and understand all SAFETY INSTRUCTIONS on pages 4-7 before using the band saw.

Operating band saws involves a certain amount of hazard. Before attempting regular work, use scrap lumber to check the settings, and to get the feel of operating the band saw. Read instructions and plan your work before cutting a workpiece.

Do not turn the power ON until after you have made all adjustments, checked that the guard is in place, and turned the wheel by hand to make sure all parts work properly. Always keep the guide assembly 1/8 in. (3.2 mm) above the workpiece.

Do not force the workpiece against the blade. Light contact permits easier cutting and prevents unwanted friction and heating of the blade.

Sharp saw blades need little pressure for cutting. Steadily move the workpiece against the blade without forcing it.

To avoid twisting the blade do not turn sharp corners; saw around corners.

A band saw is basically a "curve-cutting" saw. It is not capable of doing intricate inside cutting as can be done with a scroll saw.

It is also used for straight line operations such as crosscutting, ripping, mitering, beveling, compound cutting, and resawing.



WARNING: To avoid blade breakage, fire or other damage or injury, **NEVER** use this band saw to cut metals.

Cutting Curves

When cutting curves, carefully turn the workpiece so the blade may follow without twisting. If the curve is so sharp that you repeatedly back up and cut new kerf, use a narrower blade, or a blade with more set (teeth further apart). When a blade has more set, the workpiece turns easier but the cut is rougher.

When changing a cut, do not withdraw the workpiece from the blade. The blade may get drawn off the wheels. To change a cut, turn the workpiece and saw out through the scrap material area.

When cutting long curves, make relief cuts as you go along.

Circle Cutting (FIG. T)

- 1. Adjust the guide assembly to 1/8 in. (3.2 mm) above the workpiece.
- Use both hands while feeding the work into the blade. Hold the workpiece firmly against the table. Do not force the work and operate with gentle pressure.
- The smallest diameter circle that can be cut is determined by the width of the blade. For example, a 1/4 in. (6.4 mm) wide blade will cut a minimum diameter of approximately 1-1/2 in. (38.1 mm).





Blade Selection (Fig. U)



CAUTION: Blade teeth are sharp. Use care when handling a saw blade.

CAUTION: For longest wear and best cutting results, use the correct blade thickness, width, and temper for the type of material you will cut.

When sawing small curves and delicate work, use narrow blades. Otherwise, use the widest blade as possible. (Please refer Fig. T)

For cutting wood and similar materials with this band saw, purchase blades in width up to 1/2 in. (12.7 mm), and a length of 59-1/2 in. (1,511.3 mm).

Do not cut metals with this band saw.

Fig. U

Operation	Recommended Blade Width In Inches (mm)
Cross Cutting	1/8, 1/4, 3/8 in. (3.2, 6.4 ,9.5 mm)
Mitering	1/8, 1/4, 3/8 in. (3.2, 6.4 ,9.5 mm)
Beveling	1/8, 1/4, 3/8 in. (3.2, 6.4 ,9.5 mm)
Compound Cutting	1/8, 1/4, 3/8 in. (3.2, 6.4 ,9.5 mm)
Circle Cutting	See chart on Fig. T
Curve Cutting	1/8, 1/4 in. (3.2, 6.4 mm)

MAINTENANCE

General Maintenance



WARNING: For you own safety, turn the switch OFF and remove the plug from power source before maintaining, cleaning, adjusting or lubricating your band saw.

WARNING: To avoid fire or toxic reaction, never use gasoline, naphtha acetone, lacquer thinner or similar highly volatile solvents to clean the band saw.



WARNING: To avoid eye injury from blowing debris, wear safety goggles when blowing out sawdust.



WARNING: To avoid injury from unexpected starting or electrical shock, unplug the power cord before working on the saw.



WARNING: To avoid electrical shock, fire or injury, use only parts identical to those identified in the parts list. Reassemble exactly as the original assembly to avoid electrical shock.

Maintenance

Use only mild soap and damp cloth to clean the tool. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

Band Saw

Sawdust will accumulate under the table and base. This could cause difficulty in the movement of the table when setting up a band saw cut. Frequently blow out or vacuum up the sawdust. Keep your band saw clean. Remove the sawdust from the inside. Vacuum or blow out frequently.

Do not allow debris to build up on the table, the guides or the support bearings. Clean them with gum and pitch remover.

NOTE: Do not immerse the support bearings in the gum and pitch remover.

Apply a thin coat of paste wax on the table so that the wood slides easily while cutting.

Blade Wheel Tires

Pitch and sawdust that build up on the tires should be removed with a stiff brush or scraped off with a piece of wood.

NOTE: To avoid damaging the tires do not use a sharp knife or any kind of solvent.

When the tires are worn, they should be replaced. When replacing the tires, stretch them around the wheels but do not glue them on.

Motor

Frequently blow or vacuum out any sawdust from the motor. Follow lubrication instruction on the motor label.



WARNING: To avoid electrocution or fire, immediately replace a worn, cut or damaged power cord.

Adjusting The Upper Blade Guide Travel (Fig. V)

If the upper blade guide assembly is not move up and down easily or falls when the lock knob is loosened, the following adjustment should be performed.

- 1. Loosen the upper guide lock knob **25** by turning it counterclockwise.
- Using a Phillips screwdriver, tighten or loosen the two screws 52 located beside the upper guide lock knob 25 to adjust the blade guide travel.
- Move the blade guide assembly 41 up and down to check for smooth movement and ability to hold in position.
- Make further adjustments to the two screws if required. When blade guide is properly adjusted, it should move smoothly and able to hold in position when released.
- 5. Tighten the upper blade lock knob **25** by turning clockwise.

Free Warning Label Replacement

If your warning labels become illegible or are missing, call 1-888-331-4569 for a free replacement.



Fig. V



Lubrication

All of the bearings are packed with grease at the factory. They require no further lubrication.



CAUTION: Never put lubricant on the blade while it is spinning.

TROUBLESHOOTING GUIDE

BE SURE TO FOLLOW SAFETY RULES AND INSTRUCTIONS

For assistance with your product, visit our website at **www.craftsman.com** for a list of service centers, or call CRAFTSMAN at 1-888-331-4569.

PLEASE READ THE FOLLOWING: The manufacturer and/or distributor is providing the buyer with a parts list and assembly diagram in this manual as a reference tool only. Neither the manufacturer nor distributor make any representation or warranty of any kind to the buyer regarding the accuracy of the list or diagram or that buyer is qualified and able to make any repairs or replace any parts of the product. The manufacturer and/or distributor expressly recommend: that all repairs and/or part replacements only be undertaken by a certified and licensed technician, and not by the buyer. The buyer assumes all risk and liability, including injuries to persons and damage to property, associated with and arising out of any attempt of the buyer at repairs or replacement of parts to the product.

GENERAL

PROBLEM	CAUSE	CORRECTION
Blade does not run in the center of upper wheel.	1. Not tracking properly.	1. Adjust tracking. See ASSEMBLY AND ADJUSTMENTS section – "BLADE TRACKING."
	2. Defective blade.	2. Replace blade.
Band saw slows down when cutting.	1. Belt too loose.	1. Adjust belt tension. See ASSEMBLY AND ADJUSTMENTS section- "BLADE TENSION"
	2. Cutting too small a radius.	2. Stop feeding, back up the material slightly, until band saw speeds up.
	3. Dull blade.	3. Replace blade.
	4. Overloading motor.	 Slow down, trying to cut too fast. See "MOTOR TROUBLESHOOTING GUIDE."
Blades breaking	1. Too much tension on the blade.	1. Adjust belt tension. See ASSEMBLY AND ADJUSTMENTS section - "BLADE TENSION."
	 Kink in the blade caused by cutting too small a radius or turning the material too fast when cutting. 	 Use correct cutting technique. See "GENERAL CUTTING" in the OPERATION section.
Blade dulls too quickly.	 Blade guides set too close to the teeth. Cutting incorrect material. 	 Adjust upper and lower blade guides. See OPERATION section - "BLADE SECTION."
Band saw vibrates.	1. Too much tension on motor belt.	1. Adjust tracking. See ASSEMBLY AND ADJUSTMENTS section - "DRIVE BELT TENSION."

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MOTOR

PROBLEM	CAUSE	CORRECTION
Noisy operation.	1. Incorrect belt tension.	 Adjust tension. See ASSEMBLY AND ADJUSTMENTS section – "DRIVE BEL TENSION."
	2. Loose motor pulley.	2. Readjust and tighten motor pulley set screw.
	3. Loose pulley cover.	3. Readjust and tighten pulley cover mounting screws.
Motor will not start.	1. Not plugged into power outlet.	1. Plug it into the power outlet.
	2. Switch and key not in ON position.	Insert key and turn the switch ON.
	3. Motor cord cut or abraded.	3. Re-set; may be too many machines on line.
	4. Plug on cord is faulty.	4. Contact Service Center or Authorized Service Station.
	5. Fuse on circuit breaks open.	5. Contact Service Center or Authorized Service Station.
	6. Faulty motor.	6. Contact Service Center or Authorized Service Station.
Motor will not start and fuse	1. Too many electrical machines.	1. Turn off other machines and try again.
or circuit breaker opens.	2. Incorrect fuse.	Try time delay fuse, or go to circuit with higher rated fuse or circuit breaker.
	3. Wheels do not rotate.	3. Unplug and turn wheels by hand, move obstruction.
	4. Undersized extension cord.	Use correct size extension cord, see page 7.
	5. Short circuit.	5. Contact Service Center or Authorized Service Station.
Motor fails to develop full	1. Low line voltage.	1. Check power line for proper voltage.
power.	2. Faulty motor or capacitor.	2. Contact Service Center or Authorized Service Station.
Motor overheats.	1. Overload on motor.	1. Reduce load to motor, feed work slower into blade.
	2. Poor ventilation of motor.	2. Unplug and clean out around motor. Provide better air circulation.
	3. Capacitor failure.	3. Contact Service Center or Authorized Service Station.
Motor stalls or slows.	1. Motor overload.	1. Reduce load to motor, feed work slower into blade.
	2. Low line voltage.	2. Check power line for proper voltage.
	3. Loose wire connections.	3. Contact Service Center or Authorized Service Station.
	4. Faulty motor.	4. Contact Service Center or Authorized Service Station.
Frequent fuse or circuit	1. Motor overload.	1. Reduce load to motor, feed work slower into blade.
breaker failure.	2. Overload of electrical circuit.	2. Too many electrical appliances on same circuit.
	3. Incorrect fuse or circuit breaker.	3. Have electrician upgrade service to outlet.

Register Online

Thank you for your purchase. Register your product now for:

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- CONFIRMATION OF OWNERSHIP: In case of an insurance loss, such as fire, flood or theft, your registration of ownership will serve as your proof of purchase.
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Three Year Limited Warranty

CRAFTSMAN will repair or replace, without charge, any defects due to faulty materials or workmanship for one year from the date of purchase. This warranty does not cover part failure due to normal wear or tool abuse. For further detail of warranty coverage and warranty repair information, visit www.craftsman.com or call 1-888-331-4569. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ALL OTHERS, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND EXCLUDES ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with the performance of your CRAFTSMAN Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase with a receipt for a full refund – no questions asked.

LATIN AMERICA: This warranty does not apply to products sold in Latin America. For products sold in Latin America, see country specific warranty information contained either in the packaging, call the local company or see website for warranty information.

PARTS LIST

9" (228 mm) Band Saw Parts list for band saw - A

I.D.No.	Description	Size	Q'ty	I.D.No.	Description	Size	Q'ty
X7BF	MOTOR ASS'Y		1	X7CW	SHAFT		1
X7BH	LOWER BEARING GUIDE ASS'Y		1	X7CX	HEX NUT		5
X7BJ	LOWER BLADE GUIDE SUPPORT		1	X7CY	HEX BOLT	M6*20	4
X7BL	LOWER BLADE WHEEL ASS'Y		1	X7CZ	DUST PORT		1
X7BM	UPPER BLADE WHEEL ASS'Y		1	X7D1	ADJUSTING HANDLE BASE		1
X7BQ	UPPER BEARING GUIDE ASS'Y		1	X7D2	ADJUSTING GEAR		1
X7BR	UPPER BLADE GUIDE SUPPORT		1	X7D3	HEX SCREW	M6*25	2
X7BS	UPPER GUIDE SLIDE BAR ASS'Y		1	X7D4	FLAT WASHER		2
X7C0	HEX WRENCH	2 MM	1	X7D7	MOTOR		1
X7C1	HEX WRENCH	4 MM	1	X7D8	FLAT WASHER		2
X7C2	OPEN END WRENCH		1	X7D9	HEX SCREW	M8*25	2
X7C3	HEX BOLT		1	X7DA	POWER CORD		1
X7C4	LOWER BLADE GUIDE SUPPORT BASE		1	X7DB	CLIP		2
X7C5	WAVY WASHER	φб	1	X7DD	WING LOCKING NUT		1
X7C6	CAPACITOR BOX		1	X7DE	HEX NUT		1
X7C7	PHILIPS SCREW & FLAT WASHER	M4*6	2	X7DF	FLAT WASHER		3
X7C8	CAPACITOR		1	X7DH	TENSION SPRING		1
X7C9	SPRING WASHER		1	X7DJ	BLOCK		1
X7CA	LOWER BLADE GUIDE SUPPORT		1	X7DL	BLADE LOWER GUARD		1
X7CB	LOWER SUPPORT SHAFT		1	X7DM	HEX SCREW	M6*8	2
X7CC	MITER GAUGE POINTER		1	X7DN	HEX NUT		1
X7CD	PAN HEAD SCREW WITH FLAT	M5*8	1	X7DP	GUIDE PLATE		1
	& SPRING WASHER			X7DQ	DRIVEN PULLEY		1
X7CE	MITER GAUGE		1	X7DR	FLAT WASHER		1
X7CG	SLIDE BAR		1	X7DS	HEX SCREW	M5*10	1
X7CH	FLAT WASHER		2	X7DT	LOWER WHEEL SHAFT		1
X7CJ	WING NUT		1	X7DU	SPRING WASHER		1
X7CK	HEX SCREW		2	X7DV	HEX NUT		1
X7CL	HEX BOLT		4	X7DW	BELT		1
X7CM	ANGLE SUPPORT		1	X7DX	PAN HEAD SCREW WITH	M4*8	6
X7CN	GUIDE BLOCK		2		FLAT & SPRING WASHER		
X7CR	TABLE INSERT		1	X7DY	HEX SCREW	M5*15	2
X7CS	HEX BOLT		1	X7DZ	HEX SCREW	M5*10	5
X7CT	SCALE POINTER		1	X7E0	BEARING FASTENING SCREW		2
X7CV	LOCKING SPRING		2	X7E1	BALL BEARING		2

9" (228 mm) Band Saw Parts list for band saw - B

I.D.No.	Description	Size	Q'ty	I.D.No.	Description	Size	Q'ty
X7E2	FLAT WASHER		4	X7F2	BLADE TRACKING WINDOW		1
X7E3	UPPER SUPPORT SHAFT		1	X7F3	PHILIPS SCREW	M4*10	6
X7E4	UPPER BLADE GUIDE SUPPORT		1	X7F4	NUT		4
X7E5	PIN		4	X7F5	SPRING WASHER		3
X7E6	HEX SCREW	M4*4	1	X7F6	HEX SCREW	M6*10	2
X7E7	UPPER GUIDE SLIDE BAR		1	X7HT	SPRING WASHER		1
X7E8	SLIDE BOARD		1	X7HU	PHILIPS SCREW	M5*16	3
X7E9	PHILIPS SCREW		1	X7HV	SPRING WASHER		3
X7EA	PLATE SPRING		1	X7HW	HEX SCREW	M4*8	4
X7EB	GUIDE PLATE		1	X89T	INSTRUCTION MANUAL		1
X7EC	PHILIPS SCREW	M5*10	7	X89V	ROTATING LABEL		1
X7ED	GUIDE BASE		1	X89W	MOTOR LABEL		1
X7EE	LOCKING PAD		1	X89X	TRADEMARK LABEL		1
X7EF	SWITCH PLATE		1	X89Y	WARNING LABEL		1
X7EG	SWITCH		1	X89Z	TENSION HANDLE		1
X7EH	HEX NUT		2	X8A0	SAW BODY		1
X7EJ	CARRIAGE BOLT	M8*85	1	X8A1	UPPER DOOR		1
X7EK	U TYPE SUPPORT		1	X8A2	LOWER DOOR		1
X7EL	BLADE WHEEL		2	X8A3	MITER GAUGE SCALE LABEL		1
X7EM	CONNECTION SHAFT		1	X8A9	MITER GAUGE KNOB		1
X7EN	WASHER		2	X8AA	TABLE LOCKING KNOB		1
X7EP	UPPER WHEEL SHAFT BASE		1	X8AB	WORK TABLE		1
X7EQ	UPPER WHEEL SHAFT		1	X8AC	GEAR HANDLE		1
X7ES	BRUSH		1	X8AD	ADJUSTING HANDLE		1
X7ET	CARRIAGE BOLT	M8*70	1	X8AE	ECCENTRIC LOCKING KNOB		2
X7EU	IDLER PULLEY		1	X8AF	LOCKING KNOB		1
X7EV	TIRE		2	X8AG	BLADE WHEEL ADJUSTING KNOB		1
X7EX	INTERNAL CIRCLIP	φ26	4	X8AH	WORK TABLE ASS'Y		1
X7EY	BALL BEARING		4	X8AJ	MITER GAUGE ASS'Y		1
X7EZ	CIRCLIP FOR SHAFT		2	X8AK	LOWER DOOR ASS'Y		1
X7F0	BLADE		1	X8AL	UPPER DOOR ASS'Y		1

9" (228 mm) Band Saw Schematic for band saw



NOTES

ENGLISH

NOTES