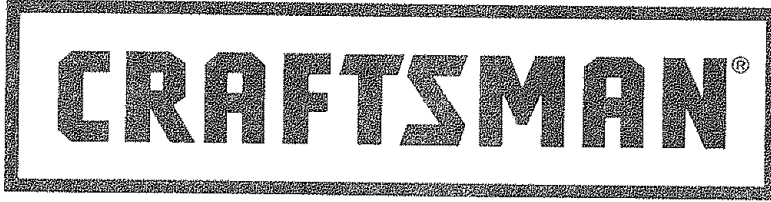


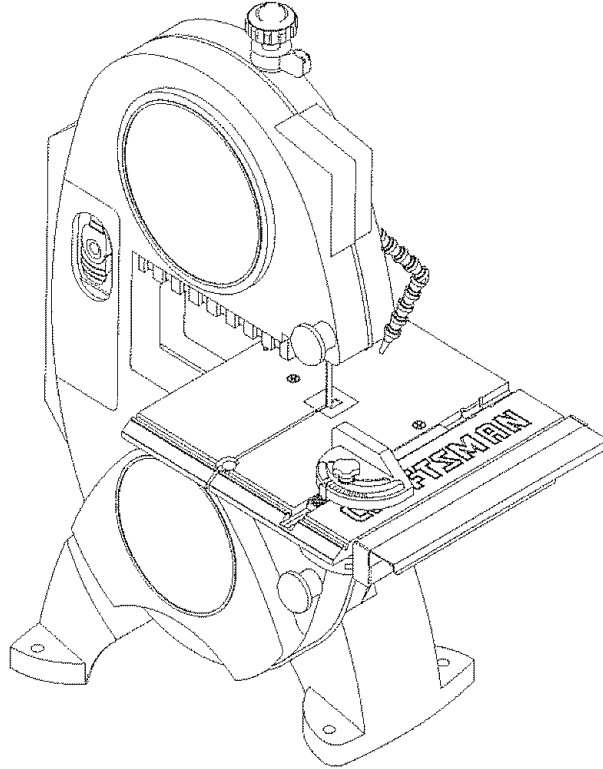
# Operator's Manual



1/2 HP (Max. Developed)  
2480 F.P.M. (No load)

**9" BAND SAW**

Model No.  
**137.214130**



## **CAUTION:**

Before using this Band Saw, read this manual and follow all its Safety Rules and Operating Instructions

- Safety Instructions
- Installation
- Operation
- Maintenance
- Parts List

**Customer Help Line**  
**1-800-843-1682**

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.  
Visit our Craftsman website: [www.sears.com/craftsman](http://www.sears.com/craftsman)

Part No. 137.21413001

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## WARRANTY

### FULL ONE YEAR WARRANTY

If this Band Saw fails due to a defect in material or workmanship within one year of date of purchase, Sears will at its option repair or replace it free of charge.

Return this Band Saw to a Sears Service Center for repair, or to place of purchase for replacement.

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

Sears, Roebuck and Co., Dept. 817 WA, Hoffman Estates, IL 60179

### WARNING

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the state of California, to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

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

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

## PRODUCT SPECIFICATIONS

### Motor

Power source ..... 120 V, 60 Hz, 3.6Amp., Ac  
 Speed ..... 2480FPM (No load)  
 Speed control ..... Electronic  
 Horsepower..... 1/2HP(Max. Developed)

### Cutting Capacity

Throat ..... 9"  
 Height ..... 3-1/2"

### Blade

Width ..... 1/8" to 3/8"  
 Length ..... 59" to 59-1/2"

### Table

Size ..... 12-1/4" x 11-1/2"  
 Tilt ..... 0° - 3° Left; 0° - 45° Right

Table Extension ..... Yes, with fence

Extension fence Capacity. 12" Right

Sawdust blower ..... Yes  
 Net weight ..... 30.8 lbs.

### WARNING

To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Use a separate electrical circuit for your tools.

This Band Saw is wired at the factory for 120V operation. Connect to a 120V, 15 AMP branch circuit and use a 15 Amp time delay fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.

## SAFETY

### GENERAL SAFETY INSTRUCTIONS

#### BEFORE USING THE BAND SAW

Safety is a combination of common sense, staying alert and knowing how to use this Band Saw.

### WARNING

To avoid mistakes that could cause serious injury, do not plug the Band Saw in until you have read and understood the following:

1. **READ** and become familiar with the entire Operator's Manual. **LEARN** the tool's application, limitations and possible hazards.
2. **KEEP GUARDS IN PLACE** and in working order.
3. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning ON.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
6. **KEEP CHILDREN AWAY.** All visitors should be kept a safe distance from work area.
7. **MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
8. **DON'T FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE THE RIGHT TOOL.** Do not force tool or attachment to do a job for which it was not designed.
10. **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 result in a drop in line voltage and in loss of power that will cause the tool to overheat. The table on page 5 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.
11. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
12. **ALWAYS WEAR EYE PROTECTION.** Any Band Saw can throw foreign objects into the eyes that could cause permanent eye damage. **ALWAYS** wear Safety Goggles (not glasses) that comply with ANSI Safety standard Z87.1 Everyday eyeglasses have only impact-resistance lenses. They **ARE NOT** safety glasses. Safety Goggles are available at Sears. **NOTE:** Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury.
13. **WEAR A FACE MASK OR DUST MASK.** Sawing operation produces dust.
14. **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.
15. **DISCONNECT TOOLS** before servicing; when changing accessories such as blades, bits, cutters, and the like.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in OFF position before plugging in.
17. **USE RECOMMENDED ACCESSORIES.** Consult the Operator's Manual for recommended accessories. The use of improper accessories may cause serious injury.
18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. **CHECK FOR DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER "OFF".** Don't leave tool until it comes to a complete stop.
21. **DON'T OVERREACH.** Keep proper footing and balance at all times.
22. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
23. **DO NOT** use power tools in the presence of flammable liquids or gases.

24. **DO NOT OPERATE** the tool if you are under the influence of any drugs, alcohol or medication that could affect your ability to use the tool properly.

25. **ALWAYS** operate the band saw in a well-ventilated area and provide for proper dust removal. Use dust collection systems whenever possible. Dust generated from certain materials can be hazardous to your health.

### SPECIFIC SAFETY INSTRUCTIONS FOR BAND SAWS

1. **TO AVOID INJURY** from unexpected movement, make sure the saw is on a firm, level surface, 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.
2. **TURN** the saw OFF and unplug the saw before moving it.
3. **USE THE CORRECT** size and style of blade.
4. **USE** blades rated at 2480 FPM or greater.
5. **MAKE SURE** the blade teeth point down and towards the table.
6. **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 above the workpiece.
7. **TABLE LOCK HANDLE** should be tight.
8. **USE EXTRA CAUTION** with large, very small or awkward workpieces.
9. **USE EXTRA SUPPORTS** to prevent workpieces from sliding off the table top. Never use another person to support the workpiece.
10. **WORKPIECES** must be secured so they don't twist, rock, or slip while being cut.
11. **PLAN** intricate and small work carefully to avoid pinching the blade. Avoid awkward operation and hand positions to prevent accidental contact with the blade.

12. **SMALL PIECES** should be secured with jigs or fixtures. Do not hand hold pieces that are so small your fingers are under the blade guard.
13. **SUPPORT** round work properly (with a V-block or clamped to the miter gauge) to prevent it from rolling and the blade from biting.
14. **CUT** only one workpiece at a time. Make sure the table is clear of everything except the workpiece and its guides before you turn the saw on.
15. **ALWAYS WATCH** the saw run before each use. If there is excessive vibration or unusual noise, stop immediately. Turn the saw OFF. Unplug it immediately. Do not start the saw again until the problem has been located and corrected.
16. **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.
17. **DON'T LEAVE** the work area until all moving parts are stopped. To child-proof the workshop, shut OFF the 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 operating the band saw.

1. Wear eye protection.
2. Do not wear gloves, necktie, or loose clothing.
3. Make sure the saw is on a firm level surface and properly secured.
4. **USE ONLY THE RECOMMENDED ACCESSORIES.**
5. Use extra caution with very large, very small, or awkward workpieces.
6. Keep hands away from the blade at all times to prevent accidental injury.
7. Do not remove jammed cutoff pieces until the blade has stopped.
8. Maintain proper adjustment of blade tension, blade guides and thrust bearings.
9. Adjust upper guide to just clear the workpiece.
10. Hold the workpiece firmly against the table.

## ELECTRICAL REQUIREMENTS

### GROUNDING INSTRUCTIONS

**IN THE EVENT OF A MALFUNCTION OR BREAKDOWN**, grounding provides a path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment-grounding conductor and 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 green insulation (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.

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

**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.**

### GUIDELINES FOR EXTENSION CORDS

**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 cause overheating. 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.

**Be sure your extension cord is properly wired** and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

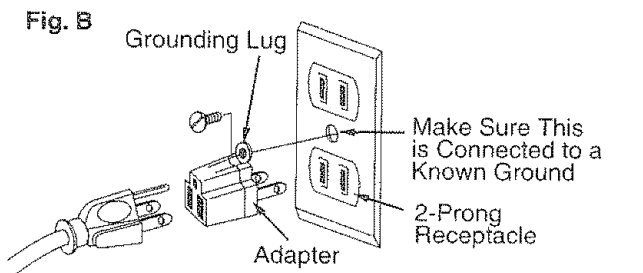
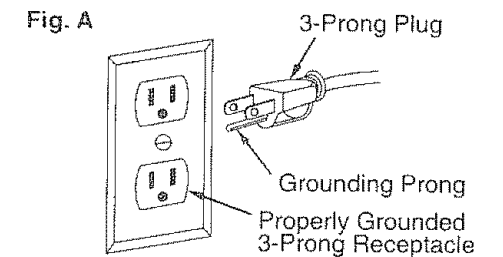
Use a separate electrical circuit for your tools. This circuit must not be less than # 12 wire and should be protected with a 15 Amp time delay fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same

as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor. This tool is intended for use on a circuit that has a receptacle like the one illustrated in Figure A. Figure A shows a 3-prong electrical plug and receptacle that has a grounding conductor. If a properly grounded receptacle is not available, an adapter (Figure B) can be used to temporarily connect this plug to a 2-contact grounded receptacle. The temporary adapter should be used only until a properly grounded receptacle can be installed by a qualified technician. The adapter (Figure B) has a rigid lug extending from it that **MUST** be connected to a permanent earth ground, such as a properly grounded receptacle box. The Canadian Electrical Code prohibits the use of the adapters.

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

### WARNING

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



### WARNING

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

MINIMUM GAUGE FOR EXTENSION CORDS (AWG)					
(When using 120 volts only)					
Ampere	Rating	Total length of cord in feet			
More than	not more than	25'	50'	100'	150'
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	not recommended	



## GLOSSARY OF TERMS

### BAND SAW TERMS

**BLADE GUIDES** — Support the blade and keep it from twisting during operation. Blade guides must be adjusted when blade is changed or replaced.

**UPPER GUIDE LOCK KNOB** — locks the upper slide. Use it after adjusting the upper guide assembly to make sure upper blade guide just clears workpiece before cutting. Upper guide lock knob must be tightened before the band saw is turned on.

**TABLE LOCK KNOB** — locks the table in place.

**TILT (BEVEL) SCALE** — shows the degree the table is tilted for bevel cutting.

**BLADE TENSION KNOB** — controls the amount of blade tension when changing blades.

**BLADE TRACKING KNOB** — adjusts blade position so blade always runs in the center of the wheel.

**SAWDUST PORT** — helps keep the machine free from sawdust. The sawdust port makes an excellent hook-up for a wet/dry vacuum.

**ON/OFF SWITCH** — has a built-in child safety lock. To lock the switch in the OFF position, remove the switch key from the switch.

### WOODWORKING TERMS

**BEVEL CUT** — An angle cut made through the face of a workpiece.

**COMPOUND CUT** — A simultaneous bevel and miter cut.

**CROSSCUT** — A cut made across the width of the workpiece.

**F.P.M.** — Feet per minute. Used in reference to the surface speed of the saw blade.

**FREE HAND** — Performing a cut without using a fence (guide), hold-down or other proper device to prevent the workpiece from twisting during the cutting operation.

**GUM** — A sticky sap-based residue from wood products.

**HEEL** — Misalignment of the blade.

**KERF** — The material removed by the blade in a through cut, or the slot produced by the blade in a non-through or partial cut.

**LEADING EDGE** — The front edge of the workpiece pushed into the cutting tool first.

**MITER CUT** — An angle cut made across the width of a workpiece.

**RESAW** — A cutting operation to reduce the thickness of the workpiece to make thinner workpiece.

**RESIN** — A sticky sap that has hardened.

**RIPPING CUT** — A cutting operation along the length of the workpiece.

**R.P.M.** — Revolutions per minute. The number of turns completed by a spinning object in one minute.

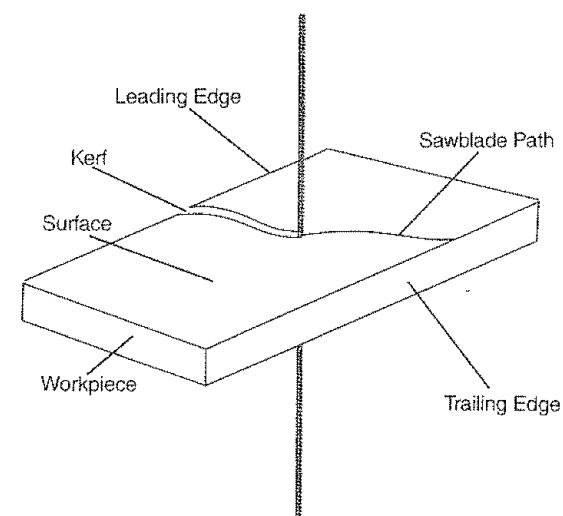
**SAW BLADE PATH** — The area of the workpiece or table top directly in line with the travel of the blade or the part of the workpiece that will be cut.

**SET** — The distance between two saw blade teeth tips, that are bent outward in opposite directions to each other. The further apart the tips are, the greater the set.

**TRAILING EDGE** — The workpiece edge last cut by the blade.

**WORKPIECE** — The item being cut. The surfaces of a workpiece are commonly referred to as faces, ends and edges.

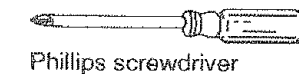
**WORKTABLE** — The surface on which the workpiece rests while performing a cutting or sanding operation.



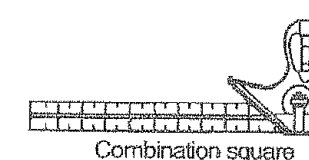
## ASSEMBLY AND ADJUSTMENTS

### ASSEMBLY INSTRUCTIONS

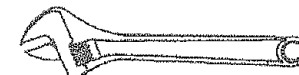
#### TOOLS NEEDED



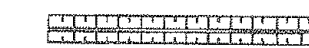
Phillips screwdriver



Combination square



Adjustable wrench



Straight edge

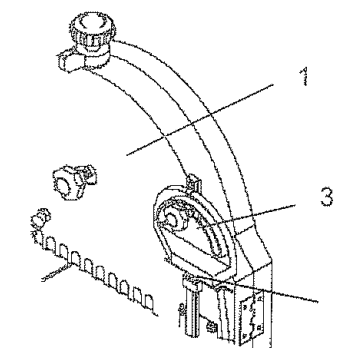
#### ⚠ WARNING

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

#### BLADE STORAGE (FIG. B)

The right rear side of the body (1) has a slot (2) designed to store the miter gauge (3).

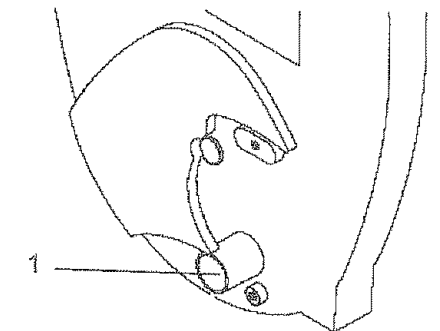
Fig. B



#### SAWDUST COLLECTION PORT (FIG. C)

This band saw will accept a hose or vacuum accessory (not provided) to be connected to the port (1) on the right side of base. If excessive sawdust buildup occurs inside the base, use a wet /dry vacuum cleaner or manually remove sawdust by removing the screws on the right side of saw. Reattach the metal plate and screws before starting the saw. This will keep your saw cutting efficiently.

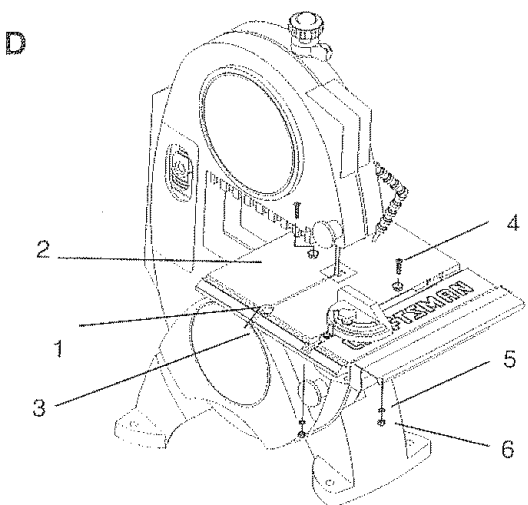
Fig. C



#### ASSEMBLING THE TABLE (FIG. D)

1. Remove the table aligning screw (1) from the table (2).
2. Guide the table slot (3) over the saw blade and rotate a 1/4 turn, so the slot is perpendicular to the flat side of the blade.
3. Insert three bolts (4) through the table holes, place spring washers (5) and hex nuts (6) on the bolts. Do not tighten.
4. Align the 0° mark on the scale to the pointer on the support bracket.
5. Place the table aligning screw (1) in the front of the table, in the slot (3), and tighten.

Fig. D



## INSTALLING AND REMOVING BLADES (FIG. E)

### ⚠ WARNING

To avoid injury from accidental starting, always turn the switch OFF and remove power cord plug from power source before removing or replacing the blade.

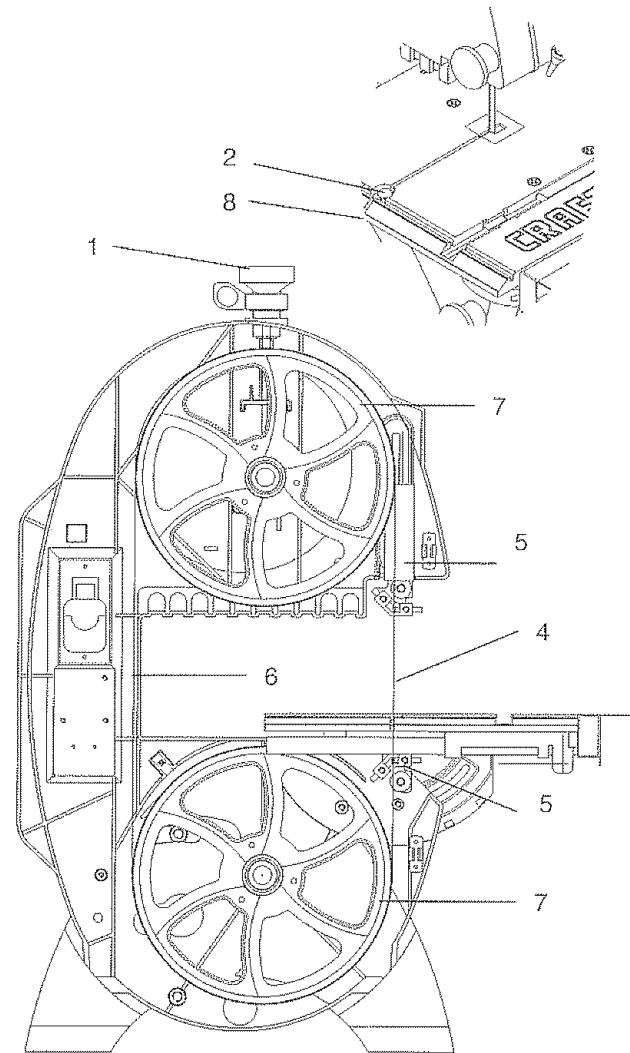
#### Removing

1. Loosen the blade tension by turning the blade tension knob (1) counterclockwise.
2. Remove the table aligning screw (2) from the table.
3. Open the wheel cover.
4. Loosen the two blade guard mounting screws and remove the blade guide (5).
5. Carefully pull the blade from the side slot (6) and from the wheels (7).
6. Swing the left side of the blade toward you, turning the blade so it will fit through the slot (8) in the table, and remove.

#### Installing

1. Make sure the blade tension knob (1) is turned counterclockwise until it stops.
  2. Remove the table aligning screw (2) from the table.
  3. Open the wheel cover.
  4. Guide the new blade (4) through the table slot (8), making sure the blade teeth are pointing forward and down.
- NOTE:** To avoid lifting the workpiece, the blade teeth must point downward toward the table.
5. Swinging the left side away and back, place the blade on the upper and lower wheels (7).
  6. Place the blade carefully between the upper and lower blade guides (5).
  7. Slide the blade into the slot (6) at the left of the wheels, and make sure the blade is positioned at the middle of the wheels.
  8. Install the blade guard by threading the two blade guard mounting screws tightly.
  9. Turning the blade tension knob clockwise, tighten the tension until the blade is tight on the wheels.
  10. Replace the aligning screw (2).
  11. Adjust the blade tracking and tension properly (See ADJUSTMENT) before operating the band saw.

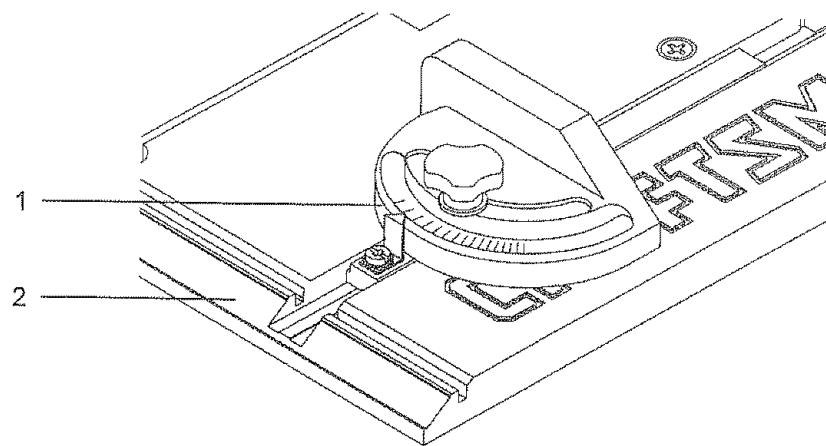
Fig. E



#### MITER GAUGE (FIG. F)

A miter gauge (1) is supplied with your band saw to be used with the table (2). The table is equipped with a slot on the right side of the blade for the miter gauge. The miter gauge can be tilted 0° to 45° right or left.

Fig. F



## ADJUSTMENT

### ⚠ WARNING

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

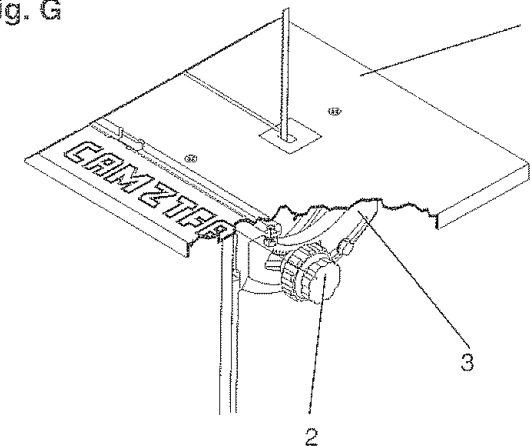
#### TILTING THE TABLE (FIG. G)

The band saw table (1) tilts 0° to 45° to the right.

1. Loosen the handle lock knob (2) underneath the table.
2. Tilt the table to the desired angle as shown on the scale (3).
3. Tighten the lock knob.

**NOTE:** The 90° table stop bolt must be removed to tilt the table 10° or more the left.

Fig. G

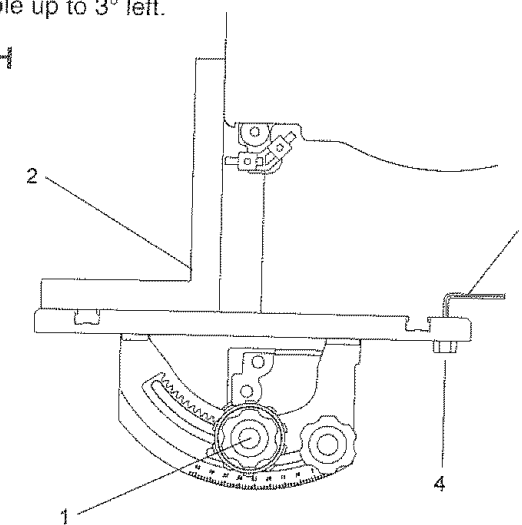


#### ADJUSTING THE 90° TABLE STOP (FIG. H)

1. Loosen table tilting lock knob (1).
2. Place a combination square (2) or level on the table with one end of the square against the blade.
3. Tilt table until the top table surface is at a 90° angle to the blade and tighten the table tilting lock knob.
4. Using the wrench (3) supplied, turn the set screw (4) until the screw touches the frame.
5. Set the table tilting pointer to line up with the zero mark on the table turning.

**NOTE:** The table stop bolt must be removed to tilt the table up to 3° left.

Fig. H



#### BLADE TENSION (FIG. I)

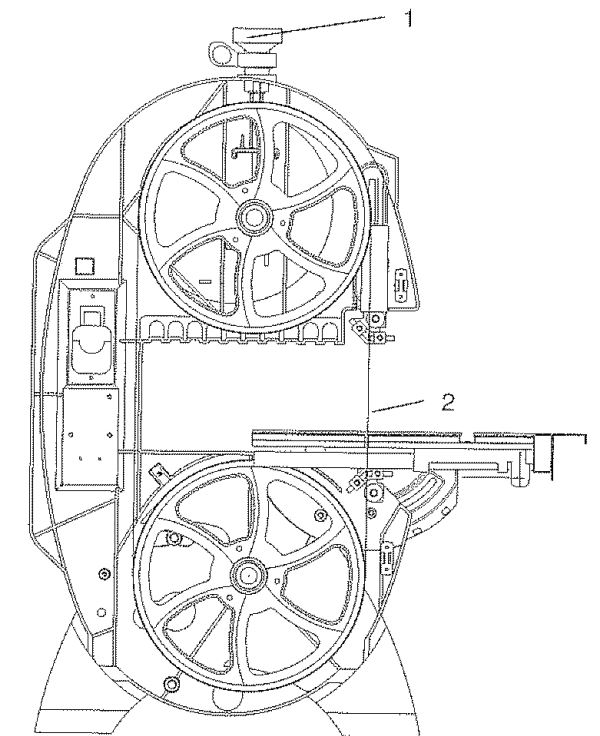
### ⚠ WARNING

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.

1. Turn blade tension adjusting knob (1) clockwise until blade (2) is tensioned.
2. Blade tension can be checked by pushing on the blade. The blade should move slightly with firm finger pressure.

**NOTE:** Over tensioning the blade may cause breakage. Too little tension may cause the blade to slip on the wheels.

Fig. I



## BLADE TRACKING (FIG. J)

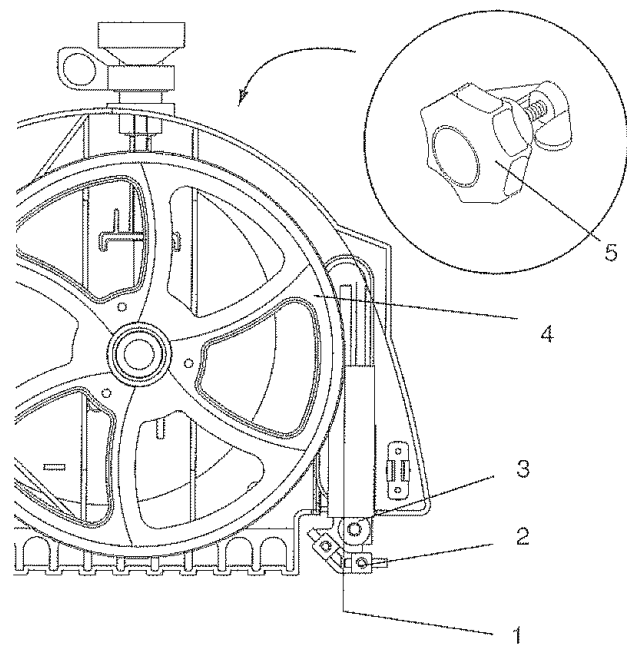
### ⚠ WARNING

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.

1. The blade (1) must be tensioned properly before adjusting the tracking. (See BLADE TENSION on page 11).
2. Open the wheel cover.
3. Move the blade guides (2) and support bearings (3) away from the blade, if necessary. (See page 13).
4. Rotate the wheel (4) slowly forward by hand, and check the position of the blade on the wheel. The blade should remain centered on the wheel as it turns.
5. If the blade moves toward the front of the wheel, turn the tracking knob (5) on the rear of the band saw clockwise. This tilts the top of the wheel and moves the blade toward the center.
6. If the blade moves toward the back edge, turn the tracking knob counterclockwise, moving the blade toward the center.

**NOTE:** Turn the tracking knob SLIGHTLY to make blade tracking adjustments.

Fig. J



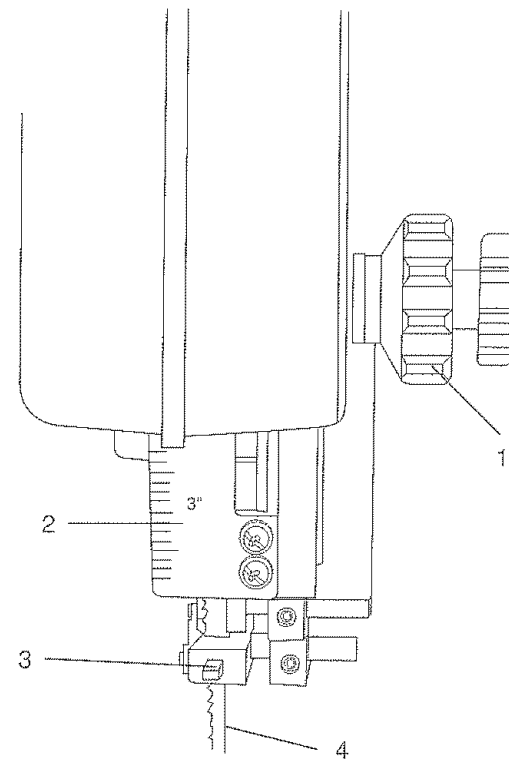
## UPPER BLADE GUIDE ASSEMBLY (FIG. K)

### ⚠ WARNING

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

1. Loosen the lock knob (1) and move the blade guide assembly (2) to 1/8" above the workpiece.
2. Rotate the assembly, if necessary, until the guide blocks (2) are flat (parallel) to the blade (4). Tighten the lock knob.

Fig. K



## UPPER BLADE GUIDES AND BLADE SUPPORT BEARING (FIG. L, M)

### ⚠ 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. L)

1. Make sure the blade is tensioned and tracking properly.
2. Loosen the front hex socket screws (1) with a hex wrench.
3. Move the guide blocks (2) as close to the blade (2) as possible without pinching it.
4. Using a feeler gauge, make sure the space between guide block and blade measures 0.02" (the thickness of a dollar bill).
5. Tighten the hex socket screws.
6. Loosen the side screw (4) by turning counter clockwise.
7. Tighten the screw.

Fig. L



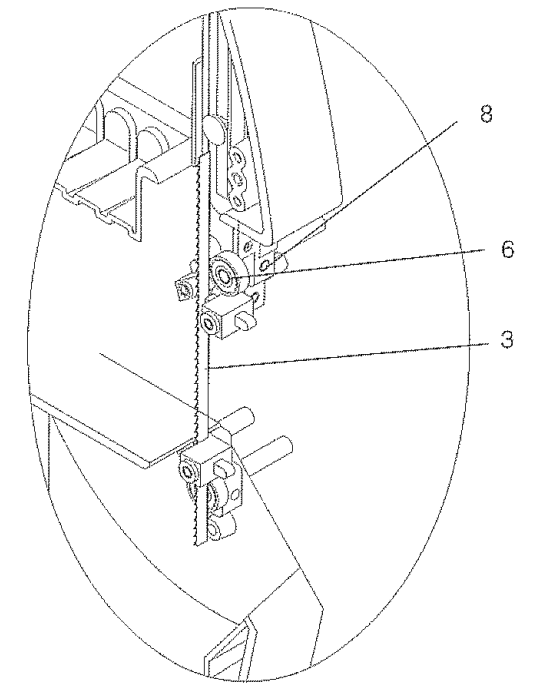
### Support bearing (Fig. M)

8. Loosen the screw (6).
9. Move the support bearing (8) in or out, until the bearing is 1/64" behind the blade.
10. Tighten the screw (6).

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

11. Check the lateral position of the support bearing (8). The vertical back edge of the blade (3) should overlap the front face of the support bearing 1/16" to 1/8" to the left of the right bearing edge, as shown.

Fig. M



**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 bearing 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**

1. Loosen both front hex socket screws (1) with a hex wrench.
2. Move the guide blocks (2) as close to the sides of the blade (3) as possible without pinching it.
3. Using the feeler gauge, measure the spaces between the guide blocks and the blade. Adjust to 0.02".
4. Tighten the hex screws (Fig. N)
5. Loosen the side hex socket screw (4). Move the guide block support bracket (6) in or out until the blocks are just behind the saw teeth. Tighten the screw. (Fig. O)

**Support bearing**

6. Loosen the bearing hex socket screw (7) with the hex wrench.
7. Move the blade support bearing shaft (8) in or out until the support bearing (9) is 1/64" behind the saw blade.
8. Tighten the bearing hex socket screw. (Fig. O)
9. The back edge of the blade (3) should be positioned 1/16" to 1/8" from the right edge of the support bearing (9), as shown. (Fig. N)

Fig. N

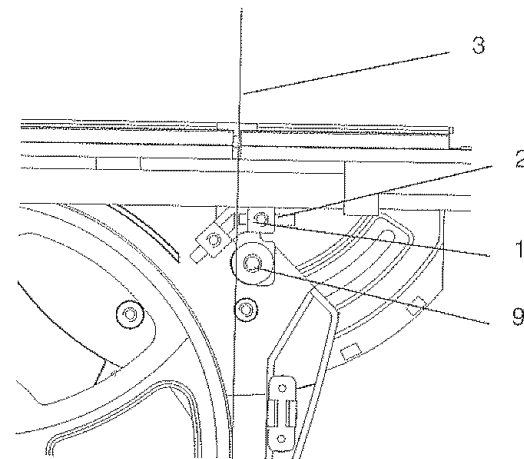
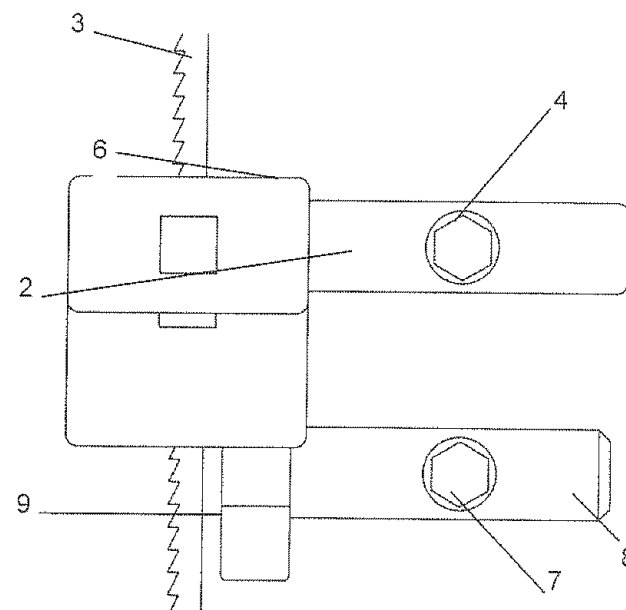


Fig. O



**OPERATION**

**BASIC SAW OPERATIONS**

**"ON/OFF" SWITCH (FIG. P)**

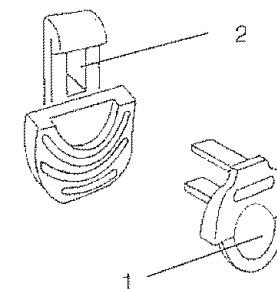
The key switch is intended to prevent unauthorized use of the band saw.

1. To turn the band saw ON insert the yellow key (1) into the key slot (2) in the center of the switch.
2. Push the key firmly into the slot, then push switch to the ON position to start the band saw.
3. To turn the band saw OFF push the switch to the down position.
4. Remove the yellow switch key, when the saw has come to a complete stop, by gently pulling it outward.

**WARNING**

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

Fig. P

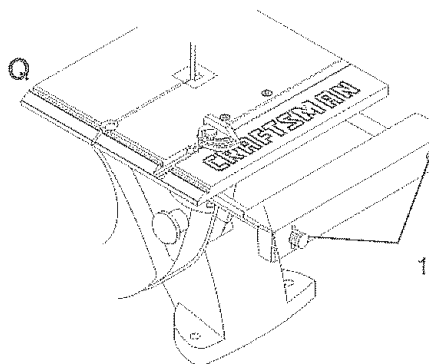


**USING THE TABLE EXTENSION (FIG. Q)**

**NOTE:**

- A. For ripping 5-3/4" ~ 7-1/2" workpiece, the extension fence has to be installed in the IN-RIP position (Fig. Q). Remove the lock handles (1) and fence. Place the fence on extension table as shown. Raise the fence to a position that just clears the table surface and secure in place using lock handles (1) for IN-RIP position.
  - B. For ripping 7-1/2" ~ 12" workpiece, the extension fence has to be installed in the OUT-RIP position.
1. Release both cam locking levers.
  2. Slide the table extension on the side your workpiece will be needing support, and tighten both cam locking levers.
  3. Slide the extension out until the correct measurement is displayed on the tube scale.

Fig. Q



**GENERAL CUTTING**

**WARNING**

For your safety, read and understand all GENERAL and SPECIFIC SAFETY INSTRUCTIONS on pages 3-5 before using the band saw.

Operating a band saw 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 place, and turned the wheel by hand to make sure all parts work properly. Always keep the guide assembly close to your work, 1/8" 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 corners or 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 ferrous metals.

**CUTTING CURVES**

When cutting curves, carefully turn the workpiece so the blade follows 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.

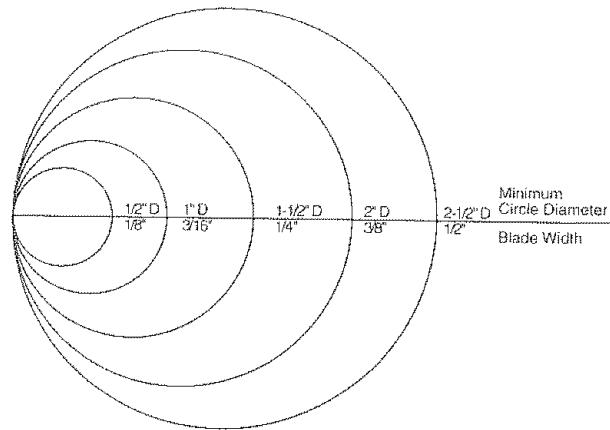
When changing a cut, do not withdraw the workpiece from the blade; the blade may get drawn off the wheels. To change a cut, turn the workpiece and saw out through the scrap material area.

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

### CIRCLE CUTTING (FIG. R)

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

Fig. R



### BLADE SELECTION (FIG. S)

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

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 possible. See Fig. R.

For cutting wood and similar materials with this band saw, purchase blades in widths up to 1/2", and a length of 59" to 59-1/2".

Do not cut metals with this band saw.

Common causes of blade breakage:

- Poor guide alignment and adjustment.
- Forcing or twisting a wide blade around a short radius.
- Feeding too fast.
- Dull teeth of not enough set.
- Too much blade tension.
- Setting top guide assembly too high above the workpiece.
- Lumpy or improperly finished braze or weld on the blade.
- Continuous running of blade when not cutting.

Fig. S

Operation	Recommended Blade Width (Inches)
Cross Cutting	1/4, 3/8, 1/2
Mitering	1/4, 3/8, 1/2
Beveling	1/4, 3/8, 1/2
Compound Cutting	1/4, 3/8, 1/2
Circle Cutting	See chart on this page
Curve Cutting	1/8, 1/4

## MAINTENANCE

### GENERAL MAINTENANCE

#### **WARNING**

For your own safety, turn the switch OFF and remove the plug from the power source receptacle before maintaining, cleaning, adjusting, or lubricating your 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.

### 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 filth to build up on the table, the guides, or the support bearings. Clean them with Craftsman Gum and Pitch Remover.

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

Put 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 become 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**

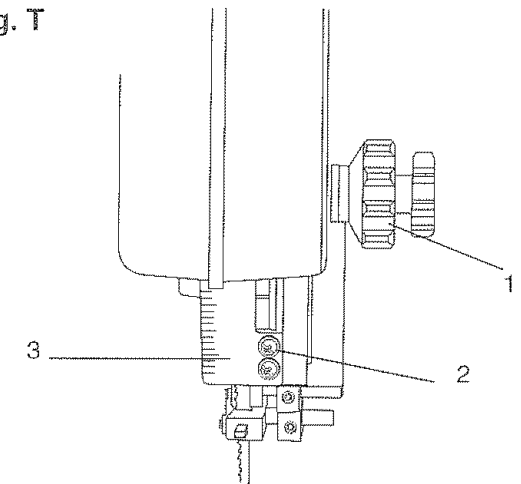
To avoid electrocution or fire, immediately replace a worn, cut or damaged power cord.

### ADJUSTING THE UPPER BLADE GUIDE TRAVEL (FIG. T)

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

1. Remove the guide lock knob (1)
2. Tighten or loosen the screw (2) located behind the lock knob.
3. Move the guide (3) up and down to check for smooth movement and ability to hold its position.
4. Make further adjustments to the screw as required. Properly adjusted, the guide bar should move smoothly and hold its position when released.
5. Reinstall the guide bar lock knob.

Fig. T



### LUBRICATION

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

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

## TROUBLESHOOTING GUIDE

### ⚠️ WARNING

To avoid injury from an accidental start, turn the switch OFF and remove the plug from the power source before making any adjustments.

### ⚠️ WARNING

All electrical or mechanical repairs should be done only by qualified service technicians. Contact the nearest Sears Service Center.

### GENERAL

Problem	Probable Cause	Remedy
Blade does not run in the center of the upper wheel.	1. Not tracking properly. 2. Defective blade.	1. Adjust tracking. See ASSEMBLY AND ADJUSTMENTS section BLADE TRACKING 2. Replace blade.
Band saw slows down when cutting	1. Belt too loose. 2. Cutting too small a radius. 3. Dull blade. 4. Overloading motor.	1. Adjust belt tension. See ASSEMBLY AND ADJUSTMENTS section BLADE TENSION. 2. Stop feeding, back up the material slightly, until the band saw speeds up. 3. Replace blade. 4. Slow down, trying to cut too fast. See MOTOR TROUBLESHOOTING GUIDE on page 19 .
Blades braking	1. Too much tension on the blade. 2. Kink in the blade caused by cutting too small a radius or turning the material too fast when cutting	1. Adjust tension. See ASSEMBLY AND ADJUSTMENTS section BLADE TENSION 2. Use correct cutting technique. See OPERATION section GENERAL CUTTING.
Blade dulls too quickly.	1. Blade guides set too close to the teeth. 2. Cutting incorrect material.	1. Adjust upper and lower blade guides. 2. See OPERATION section BLADE SELECTION.
Band saw vibrates.	1. Too much tension on motor belt.	1. Adjust according to ASSEMBLY AND ADJUSTMENTS section, INSTALL THE BELT.

### MOTOR

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



# PARTS LIST

CRAFTSMAN 9" BAND SAW

MODEL NO. 137.214130

**WARNING**

When servicing use only CRAFTSMAN replacement parts. Use of any other parts may create a HAZARD or cause product damage.

**WARNING**

Any attempt to repair or replace electrical parts on this Band Saw may create a HAZARD unless repair is done by a qualified service technician. Repair service is available at your nearest Sears Service Center.

Always order by I.D. Number.

PARTS LIST FOR SCHEMATIC B

I.D.	Description	Size	Qty	I.D.	Description	Size	Qty
X12V	EXTENSION WING (FULL SET)		1	X0AE	MOTOR		1
X13J	FLAT WASHER	3/8*20*2T	2	X03L	CROSS HEAD SCREW	3/16*1/4	1
X03G	FLAT WASHER	1/4*16	3	X09S	SCREW(HEADLESS)	1/4*3/8	8
X09E	BUTTERFLY NUT	1/4	1	X07T	BLOWER		1
X08Z	STAR KNOB (red#23)	1/4*1-1/2	1	X0A0	CLIP		4
X08Q	ADJUST GUIDE	GEAR TYPE	1	X03N	CR. HD. SCREW W/I WASHER	3/16*1/4	4
X09P	CARRIAGE SCREW	1/4*2-1/2	1	X027	TOOTH WASHER	M5	2
X0HV	TEETH GUIDE BOLT	BIG	1	X02L	COPPER WASHER	BIG	2
X080	TRUNNING BUTTON	RED#23	2	X0A2	PLATE		1
X0AB	FLAT WASHER	1/4*12	2	X096	EXTENSION WING SCALE		1
X08W	SPRING	1.2*11.5*14.5L	2	X01W	STRAIN RELIEF BUSHING	6N-4	2
X090	KNOB (red#23)	1/4	2	X0AG	POWER CORD W/I PLUG	SJT18*3C*2.3M75°C	1
X087	BEARING SHAFT	45L(SHORT)	2	X0A1	TERMINAL	A3	3
X03V	BEARING	626ZZ	2	X0A9	FLAT WASHER	3/8*19*2T	4
X086	BLADE BRACKET		2	X08Y	KNOB	M4*10(RED)	2
X09B	KEY	5x5x25	2	X08R	TABLE		1
X09A	KEY(45GRADIENT)	5x5x25	2	X08D	TABLE INSERT (RED#23)		1
X092	EXTENSION WING WARNING LABEL		1	X09T	SCREW(HEADLESS)	1/4*3/4	1
X088	BLADE GUARD		1	X09L	HEX. NUT	1/4	1
X094	WARNING STICKET		1	X09N	HEADLESS SCREW	1/4*1-1/4	3
X09Y	CROSS HEAD SCREW	3/16x1/4	2	X0AD	SPRING WASHER	1/4	3
X07V	TRUNNION FIXTURE BOLT	6*63	1	X09K	HEX. NUT	1/4	3
X08N	TABLE BRACKET		1	X09Q	CARRIAGE SCREW	M6*18	1
X081	TEETH GUIDE BOLT	SMALL	1	X139	FLAT WASHER	M6*13*1	1
X0A4	NYLON NUT	6.5*12.*1	1	X09D	BUTTERFLY NUT	M6	1
X0A6	WAVE WASHER	6.4*11*0.3	1	X08V	MITER GAUGE ASSEMBLY		1
X09W	HEX. SCREW W/I WASHER	1/4*1-1/4	1	X097	TABLE SCALE	LEFT	1
X02H	COPPER POINTER (RED)	MY-2000P	1	X098	TABLE SCALE	RIGHT	1
X07Q	EXTENSION TUBE W/I CLAMP HANDLE	BLACK(R)	1	X09C	OPERATOR'S MANUAL	137.214130	1
X07K	EXTENSION WING FIXED TUBE	20*40*289L*1T	1	X07P	EXTENSION TUBE	BLACK(L)	1
X08U	TUBE	20*40	2	X09Z	CR. RE. HD. Screw	M6*10	4
X09M	HEX. SCREW	1/4*3/4	2	X09F	NUT	1/4	2
X07L	PLATE		1	X07N	LEFT EXTENSION TUBE W/I NUT	5/8*270L*1.4T	1
X09Y	CR. RE. HD. Screw	3/16*1/4	1	X07M	RIGHT EXTENSION TUBE W/I NUT	5/8*270L*1.4T	1
X0AC	SPRING WASHER	3/8	4	X02K	CR. HD. SCREW W/I WASHER	3/16x1/4	2
X09V	HEX. SCREW	3/8*1"	4				

9" BAND SAW  
SCHEMATIC B

MODEL NO. 137.214130

