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 USA
Part No. 3BS12401
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 and cement and other masonry products.
- Asbestos and chromium from chemically-treated lumber.

To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Use a separate electrical circuit for your tools. Your band saw is wired at the factory for 120V operation. Connect to a 120V, 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.

Your band saw is wired at the factory for 120V operation. To avoid mistakes that could cause serious injury, do not plug the band saw in until you have read and understood the instructions.

1. **READ** and become familiar with this entire instruction manual. LEARN the tool's applications, 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 A 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 at a safe distance from the work area.
7. **MAK E WORKSHOP KID-PROOF with padlocks, master switches, or by removing starter keys.**
8. **MAKE WORKSHOP KID-PROOF with padlocks, master switches, or by removing starter keys.**

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### PRODUCT SPECIFICATIONS

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### 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 and cement and other masonry products.
- Asbestos 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.

### GENERAL SAFETY INSTRUCTIONS

**BEFORE USING THE BAND SAW**

Safety is a combination of common sense, staying alert and knowing how to use your 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 this entire instruction manual. LEARN the tool's applications, limitations, and possible hazards.
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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 A 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 at a safe distance from the work area.
7. **MAKE WORKSHOP KID-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.** Don't force the tool or the 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 loss of power which 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, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

**SAFETY**

**ALWAYS WEAR**

1. **EYE PROTECTION.** Any band saw can throw foreign objects into the eyes which could cause permanent eye damage. ALWAYS wear Safety Goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday eye glasses have only impact-resistant lenses. They ARE NOT safety glasses. Safety Goggles are available at Sears.
2. **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.
3. **DISCONNECT TOOLS before servicing, and when changing accessories, such as blades, bits, cutters, and the like.
4. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure the switch is in OFF position before plugging in.
5. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for the recommended accessories. The use of improper accessories may cause risk of injury to persons.
6. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
7. **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 was not damaged.
8. **MAKE WORKSHOP KID-PROOF with padlocks, master switches, or by removing starter keys.**
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11. **WEAR PROPER APPAREL.** DO NOT wear loose clothing, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
SAVE THESE INSTRUCTIONS

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

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 recommended at 2700 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 in the work area.

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 handle pieces that are small enough to slip 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 binding.

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 childproof the workshop, shut off the power system whenever possible. Dust generated from certain components and provide for proper dust removal. Use dust collection and protection equipment at the source.

18. USE EXTRA CAUTION with large, very small or awkward workpieces.

19. 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.

20. HOLD the workpiece firmly against the table. This band saw is for indoor use only. Do not expose to rain or use in damp locations.

21. 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.

22. 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 has been properly grounded.

23. USE ONLY THE RECOMMENDED ACCESSORIES.

24. MAKE sure the saw is on a firm level surface and properly secured.

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.

ELECTRICAL REQUIREMENTS

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 tools. Your saw is wired at the factory for 120V operation. Connect to a 120V, 15 Amp circuit and use a 15 Amp time delay fuse or circuit breaker. To avoid shock or fire, if power cord is worn or 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 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 correctly wired and grounded receptacle. Improper connection of the equipment grounding conductor, in the event of a malfunction or breakdown, can result in a drop in line voltage and in loss of power which will cause the tool to overheat. 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.

SAVE THESE INSTRUCTIONS
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.

<table>
<thead>
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<tr>
<td>10</td>
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</tr>
</tbody>
</table>

When using 120 volts only, the recommended amperes are:
- More than 0
- 6
- More than 6
- 10
- More than 10
- 12

SAVE THESE INSTRUCTIONS

ACCESSORIES AND ATTACHMENTS

RECOMMENDED ACCESSORIES

Visit your Sears Hardware Department or see the Sears Power and Hand Tool Catalog to purchase recommended accessories for this power tool.

A WARNING

To avoid personal injury:
- Use only accessories recommended for this band saw.
- Follow instructions that accompany accessories. Use of improper accessories may cause hazards.
- Use only accessories designed for this band saw to avoid injury from thrown broken parts or workpieces.
- Do not use any accessory unless you have completed read the instruction or owner's manual for that accessory.

ITEM
- Miter gauge
  Blade width: 1/8", 1/4", 3/8", 1/2"
  Blade length: 80"
CRAFTSMAN BAND SAW TERMS

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

BLADE TENSION KNOB - Controls the amount of blade tension when changing blades.

BLADE TRACKING KNOB - Adjusts the blade position so the blade always runs in the center of the wheel.

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.

RELIEF CUT - Removal of waste material by a cut from the outside edge, allowing easier cutting of intricate curves.

SAWDUST PORT - Helps keep the machine free from sawdust. The sawdust port makes an excellent hookup for a wet/dry vacuum.

RESAW - A cutting operation to reduce the thickness of the workpiece to make thinner workpieces.

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 which will be cut.

SET - The distance between two tips of the saw blade teeth, bent outward in opposite directions to each other.

TRAILING END - The workpiece end last cut by the blade.

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

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.

FREEHAND - 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.
ASSEMBLY AND ADJUSTMENTS

ASSEMBLY INSTRUCTIONS

TOOLS NEEDED
- Phillips screwdriver
- Combination square
- Adjustable wrench
- Straight edge
- Feeler gauge - size 0.02

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.

LEG STAND ASSEMBLY (FIG. A)
1. Lay the top plate (1) upside down on a flat surface.
2. Attach a leg (2) to the outside of the stand top plate with four carriage bolts (3), washers (4), and nuts (5). Do not tighten.
3. Repeat for the remaining three legs.
4. Attach two long brackets (6) and two short brackets (7) to the inside of the legs, using carriage bolts (3), washers (4), and nuts (5). Do not tighten.
5. Place the leg pads (8) on each leg and turn the leg stand upright on a firm level surface.
6. Adjust the stand for stability.

FIG. A

ASSEMBLE BAND SAW TO LEG STAND (FIG. B)
1. Lift the saw body (1) and place on the leg stand (2), aligning the mounting holes (3) of the saw base with the four mounting holes of the leg stand top plate.
2. Attach the band saw to the stand with four long hex head bolts (4) and four flat washers (5).
3. Place a flat washer (5) and hex nut (6) on each bolt from the underside. Hand tighten.
4. Tighten all mounting bolts and nuts with a wrench.

FIG. B

THE SAWDUST PORT (FIG. C)
The sawdust port has a 2-1/2'(O.D)/2-1/4'(I.D) diameter opening, suitable for attaching to a wet / dry vacuum hose, to help keep the work area free of sawdust.
1. Remove the bolts (1) and washers (2) from the sawdust port (3).
2. Open the lower wheel cover (4).
3. Attach the sawdust port to the edge of the wheel cover, using the same hex, head bolts and washers.
4. Tighten the bolts and close the cover.

FIG. C

ASSEMBLE THE BAND SAW TABLE (FIG. D, E, F, G)
Mounting the trunnion support bracket (FIG. D)
1. Remove the two hex head bolts (1) and washers (2), located on the lower band saw housing.
2. Place the trunnion support bracket (3) on the saw body, as shown, aligning the mounting holes.
3. Place the washers on the hex head bolts, and insert into the threaded holes, through the bracket and saw body. Tighten.
4. Thread a nut (4) onto the table stop bolt (5) and screw both into the rear tab (6) on the trunnion support bracket.
5. Tighten the nut down onto the bracket tab.

FIG. D

Mounting the table (FIG. E, F, G)
6. On the underside of the table (7), place the scale brackets (8) on the bracket mounting holes (9).
7. Be sure the long lock knob bolts (10) are placed upwards through the bracket slots as shown.
8. Place lock washers (11) on three short hex head bolts (12). Thread the bolts through the mounting holes and tighten.

FIG. E

9. Turn the table right side up.
10. Remove the table insert (13) from the table.
11. Guide the table slot (14) over the saw blade and rotate a 1/4 turn, so the slot is perpendicular to the blade.
12. Placing the scale lock knob bolts (10) through the trunnion bracket holes (15) as shown, lower the table onto the trunnion bracket.

FIG. F

13. Place a lock knob (16) on each scale knob bolt. Adjust the table by aligning the zero scale mark to the scale pointer (17), and tighten the knobs.
14. Replace the table insert (13), aligning the indents.
15. Place the table aligning pin (18) in the hole at the front of the table, and tighten.

FIG. G
INSTALLING AND REMOVING BLADES (FIG. 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**

1. Loosen the blade tension by turning the blade tension knob (1) counterclockwise.
2. Remove the table insert (2) and remove the table aligning pin (3) from the table.
3. Open the upper and lower wheel cover doors (4).
4. Loosen the two Phillips screws (5) and remove the upper blade guard (6).
5. Remove the blade (7) from the upper and lower blade guides (8).
6. Carefully pull the blade from the side slot (9) and from the wheels (10).
7. Swing the left side of the blade toward you, turning the blade so it will fit through the slot (11) in the table, and remove.

**Installing**

1. Make sure the blade tension knob (1) is turned counterclockwise until it stops.
2. Remove the blade as explained in "Removing".
3. Guide the new blade (7) through the table slot (11). Make sure the blade teeth are pointing forward and downward.
4. Swinging the left side of the blade away and back, place the blade on the upper and lower wheels (10).
5. Place the blade carefully between the upper and lower guides (6).
6. Slide the blade into the slot (9) at the left of the wheels, and make sure the blade is positioned at the middle of the wheels.
7. Turn the blade tension knob (1) clockwise, tighten the tension until the blade is tight on the wheels.
8. Replace the table insert (2) and the table aligning pin (3).
9. Adjust the blade tracking and tension properly (See ADJUSTMENT INSTRUCTIONS section) before operating the band saw.

**WARNING**

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

---

**INSTALL POWER CORD BRACKETS (FIG. J)**

1. Power cord brackets (1) are provided for convenient cord storage. Attach the power cord brackets to the back of the saw body, as shown, with two Phillips head screws (2). Tighten.
2. Wrap the power cord onto the brackets when the band saw is not in use, to prevent damage to the cord.

**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. K, L)**

**Tilting the table (FIG. K)**

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

1. Loosen both table lock knobs (2) underneath the table.
2. Tilt the table to the desired angle on the scale (3) underneath the table.
3. Tighten the two table lock knobs.

**Adjusting the 90° table stop (FIG. L)**

1. Loosen the table lock knobs (2) and tilt the table to the right.
2. Loosen the nut (4) on the table stop bolt (5) and lower the stop bolt as far as possible.
3. Tilt the table until it rests on the stop bolt.
4. Place a combination square (6) on the table with the heel of the square against the saw blade.
5. Adjust the tilt of the table left or right until it is 90° to the blade. Make sure there is no space between the square and the blade. Tighten the table lock knobs.
6. Adjust the table stop bolt up until it touches the table. Tighten the jam nut down to the support bracket.
7. Loosen the lock knobs and see that the table is resting on the stop bolt.
8. Check the square to make sure the table is still square to the blade. If not, readjust the stop bolt.
9. When the adjustment is accurate at 90°, align the pointer (7) to 0° on the scale (8).
3. As you become familiar with the saw, you may want to
   turn the blade tension knob (3) clockwise, raising the
   upper wheel to tighten the blade. Turn the knob
   counterclockwise, moving the blade toward
   the center.

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.

**UPPER BLADE GUIDE ASSEMBLY (FIG. G)**

**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.

1. Loosen the lock knob (1) and move the blade guide
   assembly (2) up or down to 1/8" above the workpiece.

2. Tighten the lock knob.

**UPPER BLADE GUIDES AND BLADE SUPPORT BEARING (FIG. G, P)**

**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.
- 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. P)

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 guides (2) as close to the blade (3) as possible
   without pinching it.
4. Using a feeler gauge, measure the space between
   each guide and the blade measures 0.02" (the thickness
   of a dollar bill).
5. Tighten the hex socket screws.
6. Loosen the side hex socket screw (4) by turning
   counterclockwise.
7. Move the blade guide bracket shaft (5) in or out until the
   guides are at least 1/32" behind the blade teeth.
8. The guides must remain behind the blade teeth during
   operation to prevent damage to the saw blade.
9. Tighten the hex socket screw.

**LOWER BLADE GUIDES AND SUPPORT BEARING (FIG. R)**

**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. R)

1. Loosen both front hex socket screws (1) with a hex
   wrench.
2. Move the guides (2) as close to sides of the blade (3)
   as possible without pinching it.
3. Using the feeler gauge, measure the spaces between
   the guides and the blade. Adjust to 0.02".
4. Tighten the hex screws.
5. Loosen the side hex socket screw (4). Move the guide
   support bracket (5) in or out until the guides are at least
   1/32" behind the blade teeth. Tighten the screw.
8. Tighten the bearing hex socket screw.

Support bearing (FIG. S)

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. S

4. When aligned, tighten the hex socket screw on the side of the motor pulley (2) to loosen the pulley on the shaft.

3. Adjust the motor pulley in or out on the motor shaft (3) to align the edges of the two pulleys.

2. Turn the hex socket screw (1) in the side of the motor pulley (2) to loosen the pulley on the shaft.

FIG. T

1. Place a straight edge in the front groove of both pulleys, behind the blade wheel.

Pulley alignment (FIG. T)

The pulley alignment is adjusted properly at the factory and should not need readjustment.

If adjustment is needed, or the belt needs replacing:

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.

A WARNING

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

FIG. U

ON / OFF SWITCH (FIG. U)

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

1. 2600 RRM. for normal operation.

2. 1410 RRM. for operation requiring more control.

BLADE SELECTION (FIG. W)

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.

For cutting wood and similar materials with this bandsaw, purchase blades in widths up to 1/2", and a length of 80".

Do not cut ferrous 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 or not enough set.
• Too much blade tension.
• Setting top guide assembly too high above the workpiece.
• Lumpy or improperly finished brace or weld on the blade.
• Continuous running of blade when not cutting.

FIG. W

BLADE SPEED SELECTION (FIG. X)

This band saw has two speed settings:

1. 2600 FPM. for normal operation.

2. 1410 FPM. for operation requiring more control.

RECOMMENDED SPEEDS

FIG. X

SPEED APPLICATION BLADE TYPE
2600 FPM 1. Basic wood cutting 1. 1/4, 1/3, 1/2 Skip tooth type
2. Resawing 2. 1/4, 1/3, 1/2 Hook tooth type
3. Regular tooth blades

1410 FPM 1. Intricate wood cutting 1. 1/4, 3/8, 1/2 3. Nonferrous metals; brass, copper, aluminum
2. Veneers, tiles, plastics 15 teeth per inch blades
3. Nonferrous metals; brass, copper, aluminum
CHANGING SPEED SETTING (FIG. Y)

**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.

1. Loosen the belt tension by turning the tension lock handle (6).
2. Open the lower wheel cover and reposition the V-belt (3).
3. Tighten the belt tension by turning the tension lock handle (6).

**NOTE:** After readjusting belt position and belt tension, check and readjust the settings for the blade tension and tracking, guides and bearings (See ADJUSTMENT section).

**WARNING**
To avoid possible injury or damage, NEVER use this band saw to cut ferrous metals.

CAUTION: When cutting nonferrous metals, metal shavings can react with wood dust and start a fire. To avoid this:
1. Disconnect any dust collecting hose from the band saw.
2. Remove all traces of wood dust from inside the saw.
3. Remove all metal shavings from inside the saw before sawing wood again.

---

**GENERAL MAINTENANCE**

**WARNING**
- For your own safety, turn switch OFF and remove the plug from power source receptacle before maintaining, cleaning, adjusting, or lubricating your band saw.
- To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the band saw.
- 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, and also cause a fire hazard. 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.

**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.

---

**TO INSTALL A NEW BELT (FIG. Z)**
1. Open the lower wheel door.
2. Loosen the blade tension by turning the blade tension lock knob (1).
3. Remove the blade from the lower blade wheel.
4. Loosen and remove the hex head bolt (2) and flange (3) on the lower blade wheel.
5. Remove the lower blade wheel.
6. Turn the belt tension handle (4) on the rear of the saw housing to loosen the v-belt tension.
7. Remove the v-belt (5).
8. Check the alignment of the two pulleys.
9. If the edges of the two pulleys are not aligned, see “ALIGN THE PULLEYS” in ADJUSTMENT section.
10. Place the new v-belt on the saw pulley and the motor pulley. See OPERATION section “CHANGING SPEED SETTINGS” on page for proper belt placement.
11. When positioned properly, tighten the v-belt tension by turning the tension lock handle.

**NOTE:** The pulley belt is properly tensioned when there is 1/2" deflection if pressed in the center between the pulleys.
# Troubleshooting Guide

**WARNING**

- To avoid injury from an accidental start, turn the switch OFF and always remove the plug from the power source before making any adjustments.
- All electrical or mechanical repairs should be done only by qualified service technicians. Contact the nearest Sears Service Center.

## General Problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band saw slows down when cutting.</td>
<td>1. Belt too loose. 2. Cutting too small a radius. 3. Dull blade. 4. Overloading motor.</td>
<td>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, you are trying to cut too fast. See &quot;MOTOR TROUBLESHOOTING GUIDE&quot;.</td>
</tr>
</tbody>
</table>
| 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”.

## Motor Problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor will not start.</td>
<td>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</td>
<td>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.</td>
</tr>
<tr>
<td>Motor will not start and fuse or circuit breaker opens.</td>
<td>1. Too many electrical machines. 2. Incorrect fuse. 3. Wheels do not rotate. 4. Undersized extension cord. 5. Short circuit.</td>
<td>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.</td>
</tr>
<tr>
<td>Motor fails to develop full power.</td>
<td>1. Low line voltage. 2. Faulty motor or capacitor.</td>
<td>1. Check power line for proper voltage. 2. Take to Sears Service Center for evaluation.</td>
</tr>
<tr>
<td>Motor overheats.</td>
<td>1. Overload on motor. 2. Poor ventilation of motor. 3. Capacitor failure.</td>
<td>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.</td>
</tr>
<tr>
<td>Motor stalls or slows.</td>
<td>1. Motor overload. 2. Low line voltage. 3. Loose wire connections. 4. Faulty motor.</td>
<td>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.</td>
</tr>
<tr>
<td>Frequent fuse or circuit breaker failure.</td>
<td>1. Motor overload. 2. Overload of electrical circuit. 3. Incorrect fuse or circuit breaker.</td>
<td>1. Reduce load to motor, feed work slower into blade. 2. Too many electrical appliances on same circuit. 3. Have an electrician upgrade service to outlet.</td>
</tr>
</tbody>
</table>
**WARNING**

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

Order by PART NUMBER, not by key number

### PARTS LIST FOR FIGURE A

<table>
<thead>
<tr>
<th>Key</th>
<th>Part No.</th>
<th>Description</th>
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<td>3485002</td>
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<td>WRENCH KIT</td>
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<td>FRAME ARM COVER/COVER STRETCHER</td>
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### CRAFTSMAN 12" BAND SAW

#### PARTS LIST FOR FIGURE B

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<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
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<td>36-61800</td>
<td>DUST COLLECTION HOSE</td>
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<td>36-61801</td>
<td>HINGE LOWER</td>
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<td>36-61802</td>
<td>HINGE UPPER</td>
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<td>36-61803</td>
<td>FLAT WASHER FOR LOWER WHEEL</td>
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<td>36-61804</td>
<td>CUTTING BLADE</td>
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<td>36-62300</td>
<td>BALL BEARING 600ZZ</td>
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<td>36-62301</td>
<td>TRUNION 1/2&quot; THREADED</td>
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<td>36-62302</td>
<td>FLAT WASHER 5/16&quot;</td>
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<td>36-62303</td>
<td>HEX SCREW M10 x 50</td>
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<td>SPRING WASHER 5/16</td>
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<td>HEX SCREW 5/16 x 58</td>
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</tbody>
</table>

#### FIGURE B

The diagram shows a detailed view of the 12" band saw, including various components such as the motor, guards, and safety features. The parts listed correspond to specific numbers in the diagram, indicating their location and role in the assembly. The parts are arranged in a logical order, starting from the lower components and progressing upwards to the upper parts. This layout helps in understanding the interconnections and the flow of assembly.
### Parts List for Figure C

<table>
<thead>
<tr>
<th>Key</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3BS40101</td>
<td>Stand top plate</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3BS40201</td>
<td>Lower bracket (long)</td>
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<td>3</td>
<td>3BS40301</td>
<td>Lower bracket (short)</td>
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<td>4</td>
<td>3BS40401</td>
<td>Leg</td>
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<td>5</td>
<td>3BS40501</td>
<td>Miter gauge storage</td>
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