Operator's Manual

CRAFTSMAN°

7 x 12″ BAND SAW

Model No. 351.226121

CAUTION: Read and follow all Safety Rules and Operating Instructions before First Use of this Product.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. www.sears.com/craftsman 16799.05 Draft (04/25/06)

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WARRANTY

FULL ONE YEAR WARRANTY

If this Craftsman tool fails due to a defect in material or workmanship within one year from the date of purchase, call 1-800-4-MY-HOME® TO ARRANGE FOR FREE REPAIR.

If this tool is used for commercial or rental purposes, this warranty will apply for only 90 days from the date of purchase.

This warranty applies only while this tool is in the United States.

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

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

SAFETY RULES

WARNING: For your own safety, read all of the instructions and precautions before operating tool.

CAUTION: Always follow proper operating procedures as defined in this manual — even if you are familiar with use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.

BE PREPARED FOR JOB

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are NOT safety glasses.
- Wear face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

- Keep work area clean. Cluttered work areas invite accidents.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- Work area should be properly lighted.
- Proper electrical receptacle should be available for tool. Three-prong plug should be plugged directly into properly grounded, three-prong receptacle.
- Extension cords should have a grounding prong and the three wires of the extension cord should be of the correct gauge.
- Keep visitors at a safe distance from work area.
- Keep children out of workplace. Make workshop childproof. Use padlocks, master switches or remove switch keys to prevent any unintentional use of power tools.

TOOL SHOULD BE MAINTAINED

- Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.
- Keep tool lubricated and clean for safest operation.
- Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before switching machine on.
- Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
- Check for damaged parts. Check for alignment of moving parts, binding, breakage, mounting and any other condition that may affect a tool's operation.
- A guard or other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs. (Use parts list provided to order replacement parts.)

KNOW HOW TO USE TOOL

- Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
- Disconnect tool when changing blade.
- Avoid accidental start-up. Make sure that the tool is in the "off" position before plugging in.
- Do not force tool. It will work most efficiently at the rate for which it was designed.
- Keep hands away from moving parts and cutting surfaces.
- Never leave tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
- Do not overreach. Keep proper footing and balance.
- Never stand on tool. Serious injury could occur if tool is tipped or if blade is unintentionally contacted.

- Know your tool. Learn the tool's operation, application and specific limitations.
- Use recommended accessories (refer to page 15). Use of improper accessories may cause risk of injury to persons.
- Handle workpiece correctly. Protect hands from possible injury.
- Turn machine off if it jams. Blade jams when it digs too deeply into workpiece. (Motor force keeps it stuck in the work.) Do not remove jammed or cut off pieces until the saw is turned off, unplugged and the blade has stopped.

WARNING: The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage.

Always wear safety goggles complying with United States ANSI Z87.1 (shown on package) before commencing power tool operation. Safety goggles are available through your Sears catalog.

UNPACKING

Check for shipping damage. If damage has occurred, a claim must be filed with carrier. Check for completeness. Immediately report missing parts to dealer.

The band saw comes assembled as one unit. Additional parts which need to be fastened to the saw should be located and accounted for before assembling:

Filter with bolt and nuts, work stop, work stop rod, wing bolt, two axles, four wheels and four cotter pins.

IMPORTANT: Bed is coated with a protectant. To ensure proper fit and operation, remove coating. Coating is easily removed with mild solvents, such as mineral spirits, and a soft cloth. Avoid getting cleaning solution on paint or any of the rubber or plastic parts. Solvents may deteriorate these finishes. Use soap and water on paint, plastic or rubber components. After cleaning, cover all exposed surfaces with a light coating of oil. Paste wax is recommended for table top.

ASSEMBLY

MOUNT WHEEL ASSEMBLIES

Refer to Figure 8, page 12.

- Slide axles (Key No. 13) through holes in left and right legs (Key Nos. 15 and 33). Ends of axles should extend 1¹/₂" outside of legs.
- Raise or prop up right leg approximately 3". Slide wheels (Key. No. 12) onto axle.
- Slide spacers (Key. No. 11) onto axle.
- Insert cotter pins (Key. No. 14) through holes in axle. Bend ends of cotter pins back to secure in place.
- Repeat steps above to mount wheels onto the right side of bandsaw.

ATTACH WORK STOP ASSEMBLY

Refer to Figure 9, page 14.

- Insert end of work stop rod (Key. No. 8) into bed (Key No. 41). Secure position of rod with socket head bolt (Key No. 61).
- Slide work stop (Key No. 6) onto work stop rod and secure with wing bolt (Key. No. 5).
- Adjust the work stop as described in Operation, page 9.

INSTALL FILTER

Refer to Figure 8, page 12.

- Insert filter with hex head bolt and hex nuts (Key Nos. 31, 32 and 19) into recess in chip tray (Key. No 30).
- Center of filter should be curved up so chips cannot get under filter.

INSTALLATION

MOTOR

The band saw is supplied with a 1 HP motor.

The 115 Volt AC motor has the following specifications:
Horsepower (max. developed)
Voltage 115/230
Amperes 14/7
Hertz 60
Phase Single
RPM1725
WARNING: All electrical connections must be per-

formed by a qualified electrician.

ELECTRICAL CONNECTIONS

WARNING: Make sure unit is off and disconnected from power source any time wiring is inspected.

POWER SOURCE

Band Saw is prewired for 115 volt, 60 HZ power source. See figure 3 for wiring schematic.

The motor is designed for operation on the voltage and frequency specified. Normal loads will be handled safely on voltages not more than 10% above or below the specified voltage.

Running the unit on voltages which are not within the range may cause overheating and motor burn-out. Heavy loads require that the voltage at motor terminals be no less than the voltage specified. Power supply to the motor is controlled by a single pole toggle switch.

GROUNDING INSTRUCTIONS

WARNING: Improper connection of equipment grounding conductor can result in the risk of electrical shock. Equipment should be grounded while in use to protect operator from electrical shock.

• Check with a qualified electrician if grounding instructions are not understood or if in doubt as to whether the tool is properly grounded.

This tool is equipped with an approved 3-conductor cord rated at 150V and a three prong grounding type plug (see Figure 1) for your protection against shock hazards.

• Grounding plug should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle, as shown (Figure 1).

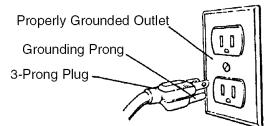


Figure1 - 3-Prong Receptacle

• Do not remove or alter grounding prong in any manner. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical shock.

WARNING: Do not permit fingers to touch the terminals of plug when installing or removing from outlet.

- Plug must be plugged into matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify plug provided. If it will not fit in outlet, have proper outlet installed by a qualified electrician.
- Inspect tool cords periodically, and if damaged, have repaired by an authorized service facility.
- Green (or green and yellow) conductor in cord is the grounding wire. If repair or replacement of the electric cord or plug is necessary, do not connect the green (or green and yellow) wire to a live terminal.

Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with National Electric Code and local codes and ordinances.

WARNING: This work should be performed by a qualified electrician.

A temporary 3-prong to 2-prong grounding adapter (see Figure 2) is available for connecting plugs to a two pole outlet if it is properly grounded.

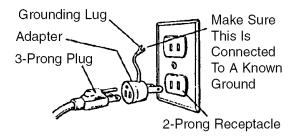


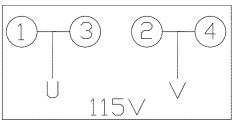
Figure 2 - 2-Prong Receptacle with Adapter

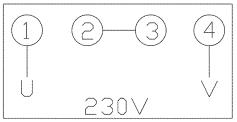
• Do not use a 3-prong to 2-prong grounding adapter unless permitted by local and national codes and ordinances. (A 3-prong to 2-prong grounding adapter is not permitted in Canada.) Where permitted, the rigid green tab or terminal on the side of the adapter must be securely connected to a permanent electrical ground such as a properly grounded water pipe, a properly grounded outlet box or a properly grounded wire system.

Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure proper ground, grounding means must be tested by a qualified electrician.

230 VOLT OPERATION

- To use the band saw with a 230V, single-phase power supply, have a qualified electrician attach a 230 volt, 20/30A 3-prong plug onto band saw line cord and install the proper connectors and receptacles to power supply.
- See wiring diagram (Figure 3) for wiring instructions for both motor and pump.





1, 2, 3, 4 - Motor Leads U, V - Power Supply

Figure3 - Motor and Pump Wiring Diagram

NOTE: Both motor **AND** pump must be rewired when using 230V power supply.

EXTENSION CORDS

- The use of any extension cord will cause some drop in voltage and loss of power.
- Wires of the extension cord must be of sufficient size to carry the current and maintain adequate voltage.
- Use the table to determine the minimum wire size (A.W.G.) extension cord.
- Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
- If the extension cord is worn, cut, or damaged in any way, replace it immediately.

EXTENSION CORD LENGTH

Wire Size	A.W.G.
Up to 25 ft	16
NOTE: Using extension cords over 25 ft. long	g is not
recommended.	

OPERATION

Refer to Figures 4 through 11.

The 7 x 12" Horizontal Metal Cutting Band Saw provides speed with quality of cut for fabrication shops, machine shops, maintenance departments and contractors. Blade speed ranges from 125 to 270 FPM to cut a variety of material ranging form cast iron, tool steel, bronze, aluminum and plastic.

The feed rate is regulated by a hydraulic cylinder. The dial control for the cylinder is accessible during all stages of proper operation and can be set at any feed rate within its range. The wet cut operation provides a quality cut and extends blade life. Features include automatic shutoff, industrial rated speed reducer, heavy gauge steel construction, cast iron wheels, pulleys head and bed.

Additional features include swivel vise jaws for angle cuts, built in chip tray and wheel assemblies. Saw is controlled by toggle switch.

SPECIFICATIONS

Capacity
7 x 8" Rectangle at 90°
$2 ext{ x } 12^{\prime\prime} ext{ Rectangle at } 90^{\circ}$
4 x 6" Rectangle at 45°
Blade speeds 125, 215 and 270 FPM
Blade size
Blade wheels
Overall dimensions 491/2 x 17 x 351/2"
Weight
Coolant pump
Coolant trough

SAFETY PRECAUTIONS

Refer to Figure 8, page 12.

WARNING: Always observe the following safety precautions.

- Whenever adjusting or replacing any parts on the band saw turn, switch off and remove plug from power source.
- Make sure the stops are positioned and that the automatic shut-off is operating.
- Check that the gear box has the proper amount of lubricant.
- Make sure the blade guides are positioned correctly.
- Use the appropriate blade for the workpiece that is being cut.
- Use a sharp blade. Replace dull blades or blades which are missing teeth.
- Make sure the blade is tensioned properly and going in the right direction.
- Use the proper blade speed for the work.
- For optimum performance, do not stall the motor or reduce the speed. Use the proper feed pressure.

- Make sure enough coolant is available to keep coolant pump (Key No. 5) submersed.
- Secure the workpiece in a stable position.
- Check that all guards are attached.
- After turning the switch on, let the blade come to full speed. Then lower the blade onto the workpiece slowly.
- Keep hands away from the blade and all moving parts.
- Always wear eye protection or face shield.

HORIZONTAL STOP

Refer to Figure 9, page 14.

Horizontal stop bolt (Key No. 37) controls the position of the head at the end of the cut. Head should contact the horizontal stop when teeth are 1/4" below the surface of the workbed.

HORIZONTAL STOP ADJUSTMENT

Refer to Figure 9, page 14.

- Place head in the horizontal position.
- Loosen the nuts (Key No. 32) on the horizontal stop bolt. Adjust the horizontal stop bolt so that the teeth are 1/8" below the surface of the workbed.
- Tighten the nuts to lock the position.

AUTOMATIC SHUTOFF

Refer to Figure 9, page 14.

The switch is shut off when the blade passes through the plane of the workbed. The switch should be shut off as soon as the cut is finished.

IMPORTANT: Make sure the action of the switch is not restricted by the horizontal stop.

LUBRICATION

All ball bearings are permanently lubricated. They should not require further lubrication.

If the tracking wheel or head pivot is disassembled for any reason, wipe off the old grease before assembly.

OIL LEVEL

Refer to Figure 11.

- The gear box relies on an oil bath to lubricate the sliding surfaces and transfer heat. The vent bolt (Key. No. 30) is vented to release pressure created by the developed heat. Insufficient lubrication will cause the gears to heat up and wear at an accelerated rate. If the gear box is over filled, hot oil will escape through the vent hole. The gear box is designed to take 10 ounces of 70-95 weight industrial gear oil.
- The oil level should remain constant. If the level changes, a defective gasket or seal should be looked for and replaced.
- If the gear box is worked on, the oil should be replaced to avoid contamination.
- Always add fresh oil and replace the oil seasonally, to guard against break-down.

- The seal between the gearbox and the cover plate is a gasket (Key No. 14). If cover plate is removed, the surface should be cleaned and a new gasket should be applied.
- After the first fifty hours of use, the gear box should be drained and refilled with industrial gear oil.

BLADE GUIDES

Band saw blade has to be twisted relative to the plane in which it rotates. Blade must be properly positioned relative to the workbed.

Blade guides hold the cutting portion of the blade in a plane which is perpendicular to both the workbed and the stationary vise and keep the blade in line with its natural path around the blade wheels.

Inner guide bearings on the upper and lower guide assemblies keep the blade in line with the blade wheels. Outer guide bearings keep the blade against the inner bearings.

Entire guide assembly is positioned at the factory to produce the proper twist and should not need adjustment, however, the position of blade guides should be checked often.

NOTE: Since the blade position is related to both table and the vise jaws, the relative position of the jaw to the table is important. When assembled, the stationary jaw must be perpendicular to the surface of the workbed.

CHECKING BLADE GUIDES

Refer to Figure 10, pages 16.

- Check that the blade teeth are perpendicular to the machined surface of the base.
- Spread the blade guides as far apart as possible.
- Check that vise jaws are parallel and set for 90° cutoff.
- Position the vise jaws to have the maximum separation that will not interfere with the blade guides.
- With the head in horizontal position, use a square against face of rear vise jaw and check that jaw is 90° to the side of blade.
- Check that the blade is in line with tracking and drive wheels (Key Nos. 44 and 52).
- Raise the head.
- Look straight on at the cutting edge of the blade.
- Make sure that the blade sides are parallel to the sides of the bearings.
- Make sure the bearings (Key No. 6) touch the blades and can still be rotated by hand.

ADJUSTING GUIDE BEARINGS

Refer to Figure 10, page 16.

If the blade is not perpendicular to the base or not in line with the blade wheels, adjustment is necessary.

NOTE: There should be .000-.001" clearance between the blade and the guide bearings.

The guide bearings are adjusted using an eccentric location system. The inner guide bearings are fixed and cannot be adjusted. The outer guide bearings are

mounted to eccentric shafts (Key No. 5) and can be adjusted.

- Loosen hex nuts (Key No. 15) with a wrench. Rotate the eccentric shaft to locate bearings in desired positions.
- Maintain eccentric shaft position and tighten hex nuts.

CHECKING THRUST BEARINGS

Refer to Figure 10, page 16.

The thrust bearings (Key No. 6) should be .003-.005" (average thickness of a piece of paper) away from back of blade. The thrust bearings are adjusted by moving the guide bracket.

ADJUSTING GUIDE BRACKETS

Refer to Figure 10, page 16.

- If the bearings are positioned properly and the blade is not square, one or both blade guide brackets (Key Nos. 3 and 23) must be adjusted.
- Loosen the socket head bolts (Key No. 11).
- Adjust the bracket to the correct position.
- Tighten the socket head bolts.
- Check the guide bearings. Repositioning the blade guide bracket can alter the previous adjustments. Readjust if necessary.

BLADE SELECTION

Using the proper blade is important for setting up the correct cutting conditions. Blades are made differently depending on the specific application intended for the blade. Some simple rules can still be applied to almost all blades.

Always remember to have at least three teeth in contact with the work during a cut. When three teeth are in contact, the blade cannot straddle the work. This prevents a tooth that enters the cut from encountering more material than it can remove.

• "Shocking" occurs when blade teeth contact too much material. This can strip the teeth from the blade.

When cutting harder materials, the suggested minimum number of teeth in contact is six because "shocking" on harder materials has a more detrimental effect on the blade. The optimum number of teeth in contact with the workpiece distributes the blade forces among more teeth to increase cutting efficiency and reduces blade wear. The optimum range is from 6-12 teeth in contact for soft materials, up to 12-24 teeth in contact for harder materials.

• Always have the maximum number of teeth in contact with the work to prevent the gullets of the teeth from being clogged.

When choosing a blade, the overall size of the work is not as important as the thickness average. The thickness average is the average width of the material which the blade will contact during each cut. Figure 11 describes how the thickness average should be calculated. The thickness average should be used when choosing a blade for the optimum number of teeth in contact, however, the three teeth rule should be applied to the minimum thickness, not the thickness average.

Keeping a selection of sharp blades on hand will yield better cuts. The blades may last longer because they are less likely to be misused when the proper blade is available.

Every band saw should have at least one replacement blade of each type used. Blade breakage is unpredictable. Consult a blade manufacturer for detailed information about available blades for specific uses.

REMOVING BLADE

Refer to Figure 10, page 16.

- Raise the head and open the blade cover.
- Loosen the outer guide bearings on the upper and lower guide assemblies. No other guide bearings should be moved.
- With one hand, pinch the blade and the tracking wheel together to protect against the possibility of the blade popping off when tension is released.
- Release the tension by slowly revolving the knob (Key No. 40) counterclockwise.
- Remove the blade.

REPLACING THE BLADE

- Make sure the outer guide bearings are loose.
- Make sure the teeth are pointing in the right direction (see Figure 4).



Figure 4 - Blade Direction

- Place the blade around the wheels and between the guide bearings.
- Hold the blade in position and apply tension.
- Push the blade against the wheel flange.
- Tighten the blade until it is properly tensioned. A properly tightened blade will ring slightly when the back of the blade is plucked (like a string of an instrument).
- Adjust the outer guide bearings.
- Check for proper tracking (See Tracking Adjustment).

TRACKING

Proper tracking is achieved when the drive wheel and idler wheel are aligned. A blade that is not tracking correctly can come off the blade wheels. Although adjustment is rarely required, tracking should be checked frequently.

CAUTION: Turn motor off and disconnect power to check tracking.

CHECK TRACKING

Refer to Figure 5.

- Raise the head. Open the wheel cover.
- Insert a piece of paper between the blade and the left side of the idler wheel.
- Lift the belt cover and rotate the blade by turning the motor pulley.
- Let the blade grab the paper. Rotate the pulley so the paper goes around the wheel.
- Refer to Figure 5 to determine if an adjustment is needed.

TRACKING ADJUSTMENT

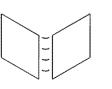
Refer to Figures 5 and 10, page 7 and 16.

The tracking is adjusted by positioning the tracking wheel shaft (Key No. 36). The positioning is done with the set screw (Key No. 30) only if the upper socket head bolts (Key No. 29) are loose.

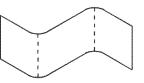
- Loosen the two socket head bolts.
- Adjust the tilt with set screw. For correct tracking, refer to Figure 4. Turn 1/4 revolution at a time.
- Check the blade tension and adjust if necessary.
- Recheck the tracking.
- Once the proper position has been found, tighten the bolts securely.



A sharp fold indicates proper tracking.



Cut or ripped paper indicates that the blade is riding against the flange of the wheel. Adjusting screw needs to be turned counterclockwise.



No fold indicates the blade will ride off the wheel. Adjusting screw should be turned clockwise.

Figure 5 - Tracking Adjustments

BLADE SPEED

Refer to Figure 11, page 18.

• Choosing the proper blade speed is important for extending the life of the blade. The speed determines the available cutting force.

Harder materials require more force and are cut at a slower speed. Softer materials are cut with less force at higher speeds to ensure the proper removal of the chips. The speed and corresponding force are related to the power supplied to the blade. Three speeds are available. If a motor, other than the one supplied is used, the cutting conditions will be changed. Three speeds are available.

Speed is changed by moving lever (Key No. 1) to one of the three speed positions. Speeds and corresponding material are listed below.

FPM

125 Tool steel, Cast iron.
215 Mild steel, Bronze.
270 Aluminum, Soft bronze.

CHANGING SPEEDS

Refer to Figure 11, page 18.

- Move the lever (Key No. 1) to the desired position while motor is running.
- Do not adjust speed while blade is in contact with workpiece.

FEED PRESSURE

Correct feed pressure holds the blade in the cut. Feed pressure is supplied by the weight of the head. Maximum material removal rate corresponds with the proper pressure.

Optimum feed pressure ensures that maximum power is used for cutting. If the feed pressure is too low, the blade will not dig into the material properly. Too much feed pressure will cause the blade to dig too deeply, bogging down the motor, and possibly burning it out. In addition, blade "shocking" could result.

Extra energy will be used to produce powdered chips rather than smooth shavings; this will produce more heat and dull the blade.

CAUTION: Do not attempt to increase feed pressure by leaning on head.

REGULATING FEED PRESSURE

Refer to Figures 6 and 8, page 8 and 12.

Feed pressure is controlled by the feed regulator. The regulator creates a force which counteracts the feed pressure. The force from the feed regulator can be adjusted to create any feed pressure up the set maximum.

Having the correct feed pressure will produce the optimum feed rate and the fastest cut. Incorrect pressure, whether too great or too small, will put less power into the cut and reduce the feed rate.

NOTE: Wasted power damages the saw.

Determining the proper feed is largely a judgement based on experience. The feed is usually determined during the cutting operation. Before the cutting begins, the blade should be off the work and the head should be held in position by closing the valve on the feed regulator (Figure 8, Key No. 40).

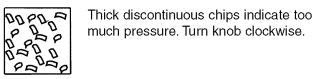
Once the blade is running, the head is slowly lowered onto the work by adjusting the feed regulator.

 After the blade begins the cut, optimum feed rate should be determined.

To determine if the feed is incorrect, examine the chips produced. When the blade is operating at the ideal feed for the speed, the chips will be curled and continuous. If the chips are thick and not continuous, the feed pressure should be reduced. If the chips are powdery, the feed pressure needs to be increased (Refer to Figure 6).



Curled shavings indicate correct feed pressure.





Powdery chips indicate too little pressure. Turn knob counterclockwise.

Figure 6 - Determine Feed Pressure CUTTING FLUIDS

Using a cutting fluid can improve the cutting conditions and keep them more consistent throughout the cut by:

- Lubricating the blade, which reduces the friction between it and the workpiece.
- Taking heat away from the cut and preventing the workpiece and blade from overheating.
- Dissipating the built-up heat because hot metals become tough and more difficult to cut and blades become dull at an accelerated rate.

NOTE: Because much of the built-up heat comes from friction between the blade and the workpiece, cutting fluids are often referred to as "coolants".

The importance of cutting fluids increases with blade speed and toughness of the material. There are many available types of cutting fluids. Consult a machinist's handbook for specific information. The most common general purpose coolant is a mixture of water and water soluble oil. The producer of the water soluble oil should provide the appropriate mixing ratios.

COOLANT TANK

Refer to Figure 8, page 12.

The coolant tank (Key No. 1) can hold up to 3.4 gallons of coolant. For proper operation, the pump must be completely submerged in fluid.

- · Check that the fluid level is sufficient before attempting wet-cut operations. Usually two gallons are sufficient.
- · Check that the tank is not filled with debris.

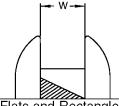
CAUTION: Do not allow shavings to flow through the pump. Change the fluid and clean the tank often. Whenever possible, the chips and should be cleaned out of the chip tray (Key No. 30) before they are washed into tank.

POSITIONING

Refer to Figure 7, page 9.

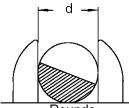
The vise is designed to keep the workpiece steady while it is being cut. The vise should only have to counteract the cutting forces. Using the proper position will help produce a safe and accurate cut. These general rules about positioning apply to most situations.

- The workpiece should rest flat on the workbed without the need for side support. Some suggested configurations are shown in Figure 7.
- The entire length of the work should be supported. Do not balance the workpiece on the workbed. Use support stands to prevent the work from falling off after the cut.
- Avoid positions which will cause the blade to encounter sharp edges. If sharp corners cannot be avoided, file down the point that the blade will contact.



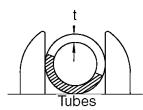


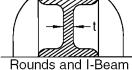
Flats and Rectangles

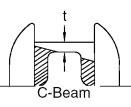


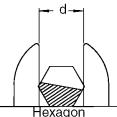
Angle

Rounds









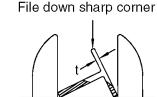


Figure 7 - Clamping Configurations and Thickness **Average Calculation**

WORK STOP ADJUSTMENT

Refer to Figure 9, page 14,

- Loosen the wing bolt (Key No. 5) holding the work stop (Key No. 6) to the work stop rod (Key No. 8).
- · Adjust the work stop casting to the desired length position.

- Rotate the work stop to contact the workpiece as close to the bottom as possible.
- Tighten the wing bolt.
- Do not allow the blade to rest on the workpiece while the motor is shut off.
- Flats and rectangles have thickness averages of w (see Figure 7).
- Rounds and many sided regular cross-sections have ٠ thickness average of 0.75d.
- Tubes and structurals have thickness average of 2.5t.

NOTE: See Blade Selection for more information on thickness average calculation.

CHECK THE BLADE PATH

Before the saw is plugged in, check to see that blade path is clear and that:

- All blade guards are in place.
- There is no debris inside the blade guard or covers.
- There is no debris on the blade or blade wheels.
- All hoses and line cords are out of the blade path.

WARNING: Do not operate saw unless all guards are in place and the workpiece is the only object that will encounter the blade teeth.

MAINTENANCE

Refer to Figure 9, page 14.

Steps required to keep the saw in optimum operating condition have been described under "Operating Instructions." The Safety Precautions should be performed before operation.

For proper maintenance:

- Keep saw clean and dry. Sweep off spots where chips have collected and wipe off spots where coolant splashed.
- Lubricate the unpainted surfaces with a light applica-٠ tion of medium consistency machine oil to prevent corrosion after cleaning.
- Grease the vise lead screw (Key No. 30) if vise action becomes difficult.
- Replace dull blades and blades from which teeth have been stripped. A clean saw with a sharp blade will yield the best cut.
- Internal parts of the band saw have been completely lubricated at the factory and do not need to be relubricated.

WARNING: Make certain that the saw is disconnected from the power source before attempting to service or remove any component.

WARNING: Any attempt to repair the motor may create a hazard unless repair is done by qualified service technician.

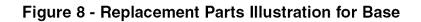
Repair service is available at your nearest Sears Store.

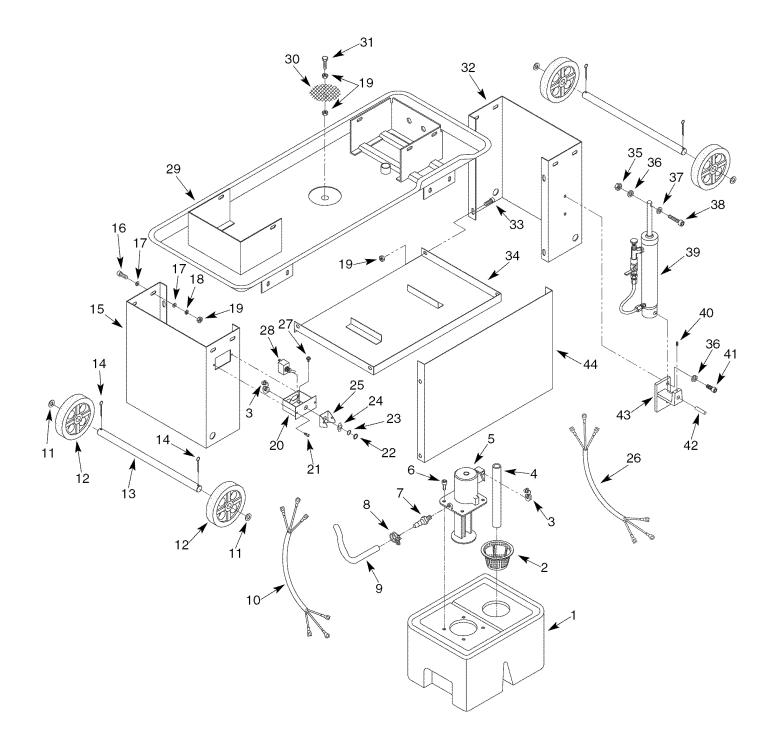
TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Blade cuts (crooked)	 Work not square Feed pressure too great Guide bearings not adjusted properly 	 Adjust vise to be square with blade Reduce pressure by increasing spring tension Adjust guide bearings
	 Inadequate blade tension Blade guides spaced out too much Dull blade Speed incorrect Blade guide assembly loose Blade guide bearing assembly loose Blade tracks too far away from wheel flanges Guide bearing worn 	 4. Increase blade tension a little at a time 5. Move guides as close to work as possible 6. Replace blade 7. Check page 7 for recommended speeds 8. Tighten 9. Tighten 10. Track blade properly according to instructions under "Operation," page 7 11. Replace
Bad cuts (rough)	 Too much speed or feed Blade has too few teeth per inch 	 Reduce speed or feed Replace with finer toothed blade
Blade is twisting Unusual wear on side or back of blade	 Cut is binding blade Blade guides worn Blade guide bearings not adjusted properly Blade guide bearings not adjusted properly Feed pressure too great 	 Decrease feed pressure Replace Adjust guide bearings (see page 6) Tighten bearings Reduce feed pressure
Motor will not start	 No electrical power to motor Low voltage Defective On/Off switch; defective line cord Open circuit in motor or loose connections Motor protector open (only if your motor is equipped with an overload protector) Burned out motor 	 Check electrical wiring to motor for continuity Check power line for proper voltage Replace defective parts before using band saw again Inspect lead terminals on motor for loose or open connections Reset protector after motor has cooled Any attempt to repair this motor may create a hazard unless repair is done by an authorized Sears Service Center. Replacement motors are available
Motor will not start; fuses or circuit breakers blow	 Short circuit in line cord or plug Short circuit in motor or loose connection Incorrect fuses or circuit breakers in power line Motor overloaded 	 Inspect line cord or plug for damaged insulation and shorted wires Inspect all lead terminals on motor for loose or worn insulation on wires Install correct fuses or circuit breakers Reduce load on motor
Motor fails to develop full power (power output of motor decreases rapidly) with decreased voltage at motor terminals	 Power line overloaded Undersized wires or cords too long General overloading of power company's facilities 	 Reduce the load on the power line Increase wire sizes or reduce length of cords Request a voltage check from the power company

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Motor overheats	 Motor overloaded Air circulation around motor restricted 	 Reduce load on motor Clean motor to provide normal air circulation around motor
Motor stalls (resulting in blown fuses or tripped circuit breakers)	 Short circuit in motor; connections loose; or shorted terminals or worn insulation on lead wires 	 Inspect terminals in motor for damaged insulation and shorted wires
	 Low voltage Incorrect fuses or circuit breakers Motor overloaded 	 Correct the low line voltage conditions Install correct fuses or circuit breakers Reduce load on motor
Frequent opening of fuses or circuit breakers	 Motor overloaded Incorrect fuses or circuit breakers 	 Reduce load on motor Install correct fuses or circuit breakers
Motor problems in general	Various causes	To troubleshoot and service motor consult qualified technician
Teeth ripping from blade	 Teeth too coarse for work Too heavy feed Too slow speed Vibrating workpiece Gullets loaded 	 Use finer tooth blade Decrease feed pressure Increase speed Clamp work securely Use coarse tooth blade or use brush to remove chips
Motor running too hot	 Blade tension too high Blade too coarse for work (pipes especially) Blade too fine for work (heavier, soft material) Gears need lubrication 	 Reduce tension on blade Use finer tooth blade Use coarser tooth blade Check oil bath
Coolant does not flow	 Pump motor burned out Dirty screen/filter on pump Loose impeller Coolant level too low 	 Replace pump Clean Tighten Refill coolant tank
Excessive blade breakage	 Material loose in vise Incorrect speed or feed Teeth too coarse for material Incorrect blade tension Teeth in contact with work before saw is started Blade rubs on wheel flange Misaligned guides Blade too thick for wheel diameter 	 Clamp work securely Check Machinist Handbook Check Machinist Handbook for recommended blade type Adjust to where blade just does not slip on wheel Place blade in contact with work after motor is started Adjust tracking Adjust guide bearings Use thinner blade
Premature blade dulling	 Teeth too coarse Too much speed Inadequate feed pressure Hard spots or scale in/on material Work hardening of material (especially stainless steel) Blade installed backwards Insufficient blade tension 	 Use finer tooth blade Try next lower speed Decrease spring pressure Reduce speed, increase feed of saw Increase feed pressure by reducing spring tension Remove blade, twist inside out and reinstall blade Increase tension to proper level





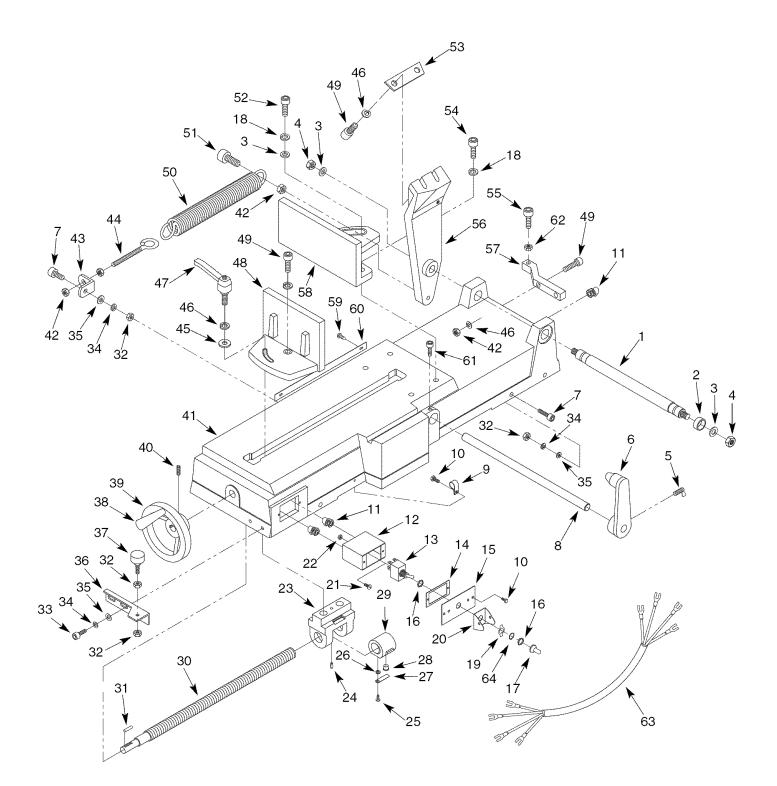
REPLACEMENT PARTS LIST FOR BASE

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	15818.00	Coolant Tank	1
2	15819.00	Strainer	1
3	01601.00	Strain Relief	3
4	15820.00	Hose	1
5	15621.00	Pump	1
6	01393.00	1/4-20 x 1/2" Socket Head Bolt	4
7	15620.00	Hose Fitting	1
8	15796.00	Hose Clamp	1
9	15821.00	Hose	1
10	16463.00	Switch Cord	1
11	15823.00	Spacer	4
12	15824.00	Wheel	4
13	15825.00	Axle	2
14	15033.00	2 x 25mm Cotter Pin	4
15	15826.01	Left Leg	1
16	01390.00	5/16-18 x 3/4" Socket Head Bolt	8
17	STD551031	5/16" Flat Washer*	16
18	STD551131	⁵/₁₀″ Lock Washer*	8
19	STD541031	⁵ / ₁₆ -18″ Hex Nut*	16
20	15827.00	Switch Box	1
21	03333.00	#10-24 x %" Socket Head Bolt	2
22	02438.00	1/2"-28 Jam Nut	2
23	16465.00	1/2" Narrow Lock Washer	1
24	02437.00	Position Plate	1
25	15741.00	Switch Guard	1
26	15748.00	Pump Cord	1
27	15075.00	10-24 x ¼" Serrated Washer Head Screw	1
28	02432.00	Toggle Switch	1
29	15742.01	Chip Tray	1
30	15743.00	Filter	1
31	STD523112	⁵ / ₁₆ -18 x 1 ¹ / ₄ " Hex Head Bolt*	1
32	15744.01	Right Leg	1
33	02729.00	5/16-18 x 1/2" Socket Head Bolt	6
34	15745.01	Shelf	1
35	STD841015	10-1.5mm Hex Nut*	1
36	STD551137	³‰" Lock Washer*	3
37	STD551037	³‰" Flat Washer*	1
38	05367.00	10-1.5 x 40mm Socket Head Bolt	1
39	03945.00	Feed Regulator	1
40	STD502503	1/4-20 x 3/8" Set Screw*	1
41	02727.00	∛₀-16 x 1″ Socket Head Bolt	2
42	03940.01	Rod	1
43	15746.00	Bracket	1
44	15747.01	Panel	1
Δ	16799.05	Operator's Manual	1
	 ndard hardware ite	em available locally	

* Standard hardware item available locally

 $\Delta \quad \text{Not Shown}$





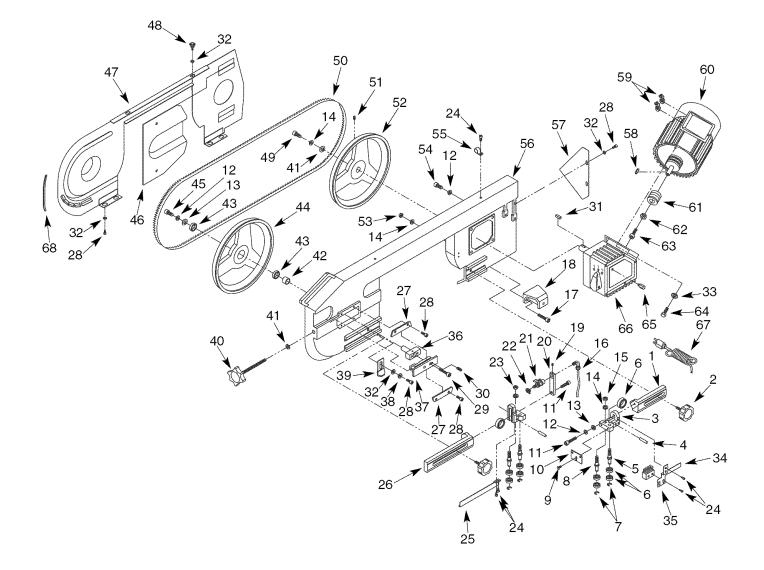
REPLACEMENT PARTS LIST FOR BED

KEY			
NO.	PART NO.	DESCRIPTION	ΩTΥ.
1	15749.00	Support Shaft	1
2	15750.00	Spacer	1
3	STD551050	1/2" Flat Washer*	3
4	15128.00	1/2-12" Fiber Hex Nut	2
5	03927.00	Wing Bolt	1
6	15751.00	Work Stop	1
7	04020.00	⁵ / ₁₆ -18 x 1" Socket Head Bolt	6
8	15752.00	Work Stop Rod	1
9	02702.00	3/8" Hose Clamp	1
10	03333.00	#10-24 x ¾" Socket Head Bolt	5
11	00582.00	Strain Relief	3
12	03936.00	Switch Box	1
13	15753.00	Toggle Switch	1
14	03937.00	Gasket	1
15	03938.00	Switch Plate	1
16	02438.00	1⁄2″-28 Jam Nut	2
17	02831.00	Switch Cover	1
18	STD551150	1/2" Lock Washer*	2
19	02437.00	Position Plate	1
20	15741.00	Switch Guard	1
21	STD511003	#10-24 x ¾" Pan Head Screw*	1
22	STD541010	#10-24″ Hex Nut*	1
23	15754.00	Bracket	1
24	04061.00	6 x 16mm Spring Pin	1
25	00361.00	5-0.8 x 8mm Pan Head Screw	1
26	STD852005	5mm Lock Washer*	1
27	03911.00	Retainer	1
28	15582.00	Button	1
29	15580.00	Lead Nut	1
30	15755.00	Lead Screw	1
31	00537.00	5 x 5 x 20mm Key	1
32	STD541031	⁵ /16-18" Hex Nut*	8

33 03474.00 $\frac{5}{4e}$ -18 x 5/8" Socket Head Bolt234STD551131 $\frac{5}{4e}$ " Lock Washer*835STD551031 $\frac{5}{4e}$ " Flat Washer*83615756.00Support Plate13715757.00Stop13804673.01Handle Assembly13915758.00Handle Wheel140STD50313 $\frac{5}{4e}-18 \times \frac{3}{4}e"$ Set Screw*14115759.01Bed142STD541037 $\frac{3}{4e}-16"$ Hex Nut*44303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{3}{4e}''$ Flat Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{4e}-16 \times 1\frac{3}{4}"$ Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{4e}-16 \times 1\frac{3}{4}"$ Socket Head Bolt15202737.00 $\frac{1}{2e}-12 \times 1\frac{1}{4}"$ Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2e}-12 \times 1\frac{1}{4}"$ Socket Head Bolt15502727.00 $\frac{3}{4e}-16 \times 1"$ Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale1 </th <th>KEY NO.</th> <th>PART NO.</th> <th>DESCRIPTION G</th> <th>DTY.</th>	KEY NO.	PART NO.	DESCRIPTION G	DTY.
35STD551031 $\%_{16}$ " Flat Washer*83615756.00Support Plate13715757.00Stop13804673.01Handle Assembly13915758.00Handle Wheel140STD50313 $\%_{16}$ -18 x $\frac{3}{4}$ " Set Screw*14115759.01Bed142STD541037 $\frac{3}{4}$ -16" Hex Nut*44303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{3}{4}$ " Flat Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{4}$ -16 x $1\frac{3}{4}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{4}$ -16 x $1\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x $1\frac{1}{4}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{3}{4}$ -16 x 1" Socket Head Bolt15502727.00 $\frac{3}{4}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{6}$ -18 x $\frac{3}{4}$ " Socket Head Bolt162STD541237 $\frac{3}{4}$ "-16 Hex Jam Nut*1 <td>33</td> <td>03474.00</td> <td>⁵/16-18 x 5/8" Socket Head Bolt</td> <td>2</td>	33	03474.00	⁵ /16-18 x 5/8" Socket Head Bolt	2
36 15756.00Support Plate1 37 15757.00Stop1 38 04673.01Handle Assembly1 39 15758.00Handle Wheel1 40 STD50313 $\frac{5}{16}$ -18 x $\frac{3}{6}$ " Set Screw*1 41 15759.01Bed1 42 STD541037 $\frac{3}{6}$ -16" Hex Nut*4 43 03923.00Spring Bracket1 44 03922.00Eye Bolt1 45 STD551037 $\frac{3}{6}$ " Flat Washer*6 47 15760.00Locking Handle1 48 15761.01Left Vise Jaw1 49 05660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt5 50 15762.00Spring1 51 05729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt1 52 02737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt1 53 15763.00Plate1 54 15129.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt1 55 02727.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt1 56 15764.01Pivot Bracket1 57 15765.0090° Support1 58 15766.01Right Vise Jaw1 59 01286.00Rivet2 60 15767.00Scale1 61 01390.00 $\frac{5}{6}$ -18 x $\frac{3}{4}$ " Socket Head Bolt1 62 STD541237 $\frac{3}{6}$ "-16 Hex Jam Nut*1 63 158	34	STD551131	⁵ /16" Lock Washer*	8
3715757.00Stop13804673.01Handle Assembly13915758.00Handle Wheel140STD50313 $\frac{5}{16}$ -18 x $\frac{3}{6}$ " Set Screw*14115759.01Bed142STD541037 $\frac{3}{6}$ -16" Hex Nut*44303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{3}{6}$ " Flat Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}$ " Socket Head Bolt162STD541237 $\frac{3}{6}$ "-16 Hex Jam Nut*16315822.00Motor Cord1	35	STD551031	⁵ /16″ Flat Washer*	8
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40STD50313 $\frac{5}{6}-18 \times \frac{3}{6}"$ Set Screw*14115759.01Bed142STD541037 $\frac{3}{6}-16"$ Hex Nut*44303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{3}{6}"$ Flat Washer*146STD551137 $\frac{3}{6}"$ Lock Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}-16 \times 1\frac{1}{2}"$ Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}-16 \times 1\frac{3}{4}"$ Socket Head Bolt15202737.00 $\frac{1}{2}-12 \times 1\frac{1}{4}"$ Socket Head Bolt15315763.00Plate15415129.00 $\frac{3}{6}-16 \times 1"$ Socket Head Bolt15502727.00 $\frac{3}{6}-16 \times 1"$ Socket Head Bolt15615764.01Pivot Bracket15815765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}-18 \times \frac{3}{4}"$ Socket Head Bolt162STD541237 $\frac{3}{6}"-16$ Hex Jam Nut*16315822.00Motor Cord1	38	04673.01	Handle Assembly	1
4115759.01Bed142STD541037 $\frac{3}{6}$ -16" Hex Nut*44303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{3}{6}$ " Flat Washer*146STD551137 $\frac{3}{6}$ " Lock Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{6}$ -16 x 1" Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	39	15758.00	Handle Wheel	1
42STD541037 $\frac{3}{6}$ -16" Hex Nut*44303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{9}{6}$ " Flat Washer*146STD551137 $\frac{9}{6}$ " Lock Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{2}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{6}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	40	STD50313	⁵ / ₁₆ -18 x ³ / ₈ " Set Screw*	1
4303923.00Spring Bracket14403922.00Eye Bolt145STD551037 $\frac{3}{6}$ " Flat Washer*146STD551137 $\frac{3}{6}$ " Lock Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{2}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{6}$ -16 x 1" Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{6}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	41	15759.01	Bed	1
4403922.00Eye Bolt145STD551037 $\frac{3}{6}$ " Flat Washer*146STD551137 $\frac{3}{6}$ " Lock Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{2}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	42	STD541037	³‰-16″ Hex Nut*	4
45STD551037 $\frac{3}{6}$ " Flat Washer*146STD551137 $\frac{3}{6}$ " Lock Washer*64715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{2}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	43	03923.00	Spring Bracket	1
46 STD551137 3/6" Lock Washer* 6 47 15760.00 Locking Handle 1 48 15761.01 Left Vise Jaw 1 49 05660.00 3/6-16 x 11/2" Socket Head Bolt 5 50 15762.00 Spring 1 51 05729.00 3/6-16 x 13/4" Socket Head Bolt 1 52 02737.00 1/2-12 x 11/2" Socket Head Bolt 1 53 15763.00 Plate 1 54 15129.00 1/2-12 x 11/4" Socket Head Bolt 1 55 02727.00 1/2-12 x 11/4" Socket Head Bolt 1 56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5/16-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/6"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	44	03922.00	Eye Bolt	1
4715760.00Locking Handle14815761.01Left Vise Jaw14905660.00 $\frac{3}{4}$ -16 x 1 $\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{4}$ -16 x 1 $\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{2}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}$ " Socket Head Bolt15502727.00 $\frac{3}{4}$ -16 x 1" Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	45	STD551037	³⁄₀″ Flat Washer*	1
4815761.01Left Vise Jaw14905660.00 $\frac{3}{6}$ -16 x $1\frac{1}{2}$ " Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x $1\frac{3}{4}$ " Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x $1\frac{1}{2}$ " Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x $1\frac{1}{4}$ " Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1 " Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}$ " Socket Head Bolt16315822.00Motor Cord1	46	STD551137	¾" Lock Washer*	6
4905660.00 $\frac{3}{6}$ -16 x 1 $\frac{1}{2}''$ Socket Head Bolt55015762.00Spring15105729.00 $\frac{3}{6}$ -16 x 1 $\frac{3}{4}''$ Socket Head Bolt15202737.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{2}''$ Socket Head Bolt15315763.00Plate15415129.00 $\frac{1}{2}$ -12 x 1 $\frac{1}{4}''$ Socket Head Bolt15502727.00 $\frac{3}{6}$ -16 x 1'' Socket Head Bolt15615764.01Pivot Bracket15715765.0090° Support15815766.01Right Vise Jaw15901286.00Rivet26015767.00Scale16101390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}''$ Socket Head Bolt16315822.00Motor Cord1	47	15760.00	Locking Handle	1
50 15762.00 Spring 1 51 05729.00 %-16 x 1¾" Socket Head Bolt 1 52 02737.00 ½-12 x 1½" Socket Head Bolt 1 53 15763.00 Plate 1 54 15129.00 ½-12 x 1¼" Socket Head Bolt 1 55 02727.00 ½-12 x 1¼" Socket Head Bolt 1 56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5‰-18 x ¾" Socket Head Bolt 1 62 STD541237 ¾"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	48	15761.01	Left Vise Jaw	1
51 05729.00 $\frac{3}{6}$ -16 x $1\frac{3}{4}''$ Socket Head Bolt152 02737.00 $\frac{1}{2}$ -12 x $1\frac{1}{4}''$ Socket Head Bolt153 15763.00 Plate154 15129.00 $\frac{1}{2}$ -12 x $1\frac{1}{4}''$ Socket Head Bolt155 02727.00 $\frac{3}{6}$ -16 x $1''$ Socket Head Bolt156 15764.01 Pivot Bracket157 15765.00 90° Support158 15766.01 Right Vise Jaw159 01286.00 Rivet260 15767.00 Scale161 01390.00 $\frac{5}{16}$ -18 x $\frac{3}{4}''$ Socket Head Bolt163 15822.00 Motor Cord1	49	05660.00	³ / ₈ -16 x 1 ¹ / ₂ " Socket Head Bolt	5
52 02737.00 1/2-12 x 11/2" Socket Head Bolt 1 53 15763.00 Plate 1 54 15129.00 1/2-12 x 11/4" Socket Head Bolt 1 55 02727.00 3/6-16 x 1" Socket Head Bolt 1 56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5/16-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/6"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	50	15762.00	Spring	1
53 15763.00 Plate 1 54 15129.00 ½-12 x 1¼" Socket Head Bolt 1 55 02727.00 ¾-16 x 1" Socket Head Bolt 1 56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 ‰-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	51	05729.00	³ / ₈ -16 x 1 ³ / ₄ " Socket Head Bolt	1
54 15129.00 1/2-12 x 11/4" Socket Head Bolt 1 55 02727.00 3/6-16 x 1" Socket Head Bolt 1 56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5/16-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/6"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	52	02737.00	1/2-12 x 11/2" Socket Head Bolt	1
55 02727.00 %-16 x 1" Socket Head Bolt 1 56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5%-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/4"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	53	15763.00	Plate	1
56 15764.01 Pivot Bracket 1 57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5‰-18 x ¾" Socket Head Bolt 1 62 STD541237 ¾"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	54	15129.00	1/2-12 x 11/4" Socket Head Bolt	1
57 15765.00 90° Support 1 58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 ⁵ / ₁₆ -18 x ³ / ₄ " Socket Head Bolt 1 62 STD541237 ³ / ₈ "-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	55	02727.00	³/₀-16 x 1" Socket Head Bolt	1
58 15766.01 Right Vise Jaw 1 59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5/16-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/4"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	56	15764.01	Pivot Bracket	1
59 01286.00 Rivet 2 60 15767.00 Scale 1 61 01390.00 5/16-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/4"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	57	15765.00	90° Support	1
60 15767.00 Scale 1 61 01390.00 5/16-18 x 3/4" Socket Head Bolt 1 62 STD541237 3/8"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	58	15766.01	Right Vise Jaw	1
61 01390.00 5/16-18 x ³ / ₄ " Socket Head Bolt 1 62 STD541237 ³ / ₈ "-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	59	01286.00	Rivet	2
62 STD541237 ¾"-16 Hex Jam Nut* 1 63 15822.00 Motor Cord 1	60	15767.00	Scale	1
63 15822.00 Motor Cord 1	61	01390.00	⁵ /16-18 x ³ /4" Socket Head Bolt	1
	62	STD541237	¾"-16 Hex Jam Nut*	1
64 16465.00 ½" Narrow Lock Washer 1	63	15822.00	Motor Cord	1
	64	16465.00	1/2" Narrow Lock Washer	1

* Standard hardware item available locally





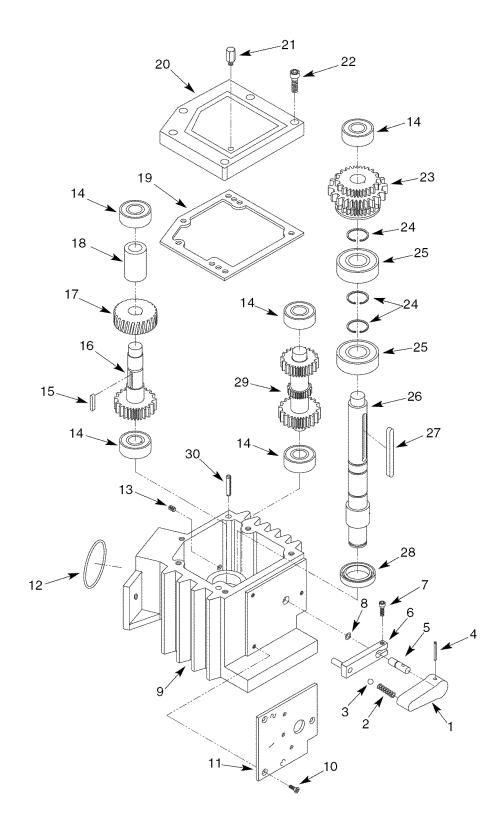
REPLACEMENT PARTS LIST FOR HEAD

KEY			
NO.	PART NO.	DESCRIPTION	Ω ΤΥ.
1	15788.00	Right Guide Bar	1
2	03989.00	Knob	2
3	15789.00	Right Bracket	1
4	15790.00	8 x 35mm Dowel Pin	2
5	15791.00	Eccentric Shaft	2
6	STD315485	608ZZ Ball Bearing*	10
7	08323.00	3CMI-8 E-Ring	4
8	15792.00	Bearing Shaft	2
9	06634.00	1/4-20 x 1/2" Flat Head Screw	2
10	15793.00	Plate	1
11	03770.00	5/16-18 x 11/8" Socket Head Bolt	
12	STD551131	⁵⁄₁₀″ Lock Washer*	7
13	STD551031	⁵⁄₁₀″ Flat Washer*	2
14	STD551137	%″ Flat Washer*	7
15	STD541137	¾-24″ Hex Nut*	4
16	15794.00	Nozzle	1
17	01382.00	3‰-16 x 1¼″ Socket Head Bolt	2
18	15795.00	Cylinder Bracket	1
19	STD502503	¼-20 x ¾″ Set Screw*	1
20	00632.00	Nozzle Support	1
21	03168.00	Valve	1
22	15796.00	Hose Clamp	1
23	15797.00	Left Bracket	1
24	03333.00	#10-24 x ¾" Socket Head Bolt	8
25	15798.00	Blade Guard	1
26	15799.00	Left Guide Bar	1
27	15800.00	Guide Plate	2
28	01393.00	1/4-20 x 1/2" Socket Head Bolt	11
29	02762.00	⁵ / ₁₆ -18 x 1 ¹ / ₂ " Socket Head Bolt	
30	00741.00	⁵ / ₁₆ -18 x ³ / ₄ " Set Screw	1
31	04293.00	6 x 6 x 20mm Key	1
32	STD551025	1/4" Flat Washer*	9
33	STD852008	8mm Lock Washer*	2
34	15801.00	Brush Holder	1
35	03975.00	Brush	1

KEY NO.	PART NO.	DESCRIPTION G	TY.
36	15802.00	Tracking Wheel Shaft	1
37	15803.00	Tension Block	1
38	STD551125	¹ /4" Lock Washer*	1
39	15804.00	Shut-off Bracket	1
40	03972.00	Knob	1
41	STD551037	%" Flat Washer*	2
42	15805.00	Spacer	1
43	00338.00	6203Z Ball Bearing	2
44	15806.00	Tracking Wheel	1
45	03474.00	5/16-18 x 1" Socket Head Bolt	1
46	15807.00	Drive Wheel Cover	1
47	15808.00	Blade Cover	1
48	01057.00	Knob	2
49	02727.00	3/8-16 x 1" Socket Head Bolt	1
50	15103.00	Blade	1
51	STD503103	5/₁₀-18 x ¾″ Set Screw*	1
52	15809.00	Drive Wheel	1
53	STD541037	%″-16 Hex Nut*	2
54	02394.00	⁵ / ₁₆ -18 x 1 ¹ / ₄ " Socket Head Bolt	4
55	02702.00	%″ Hose Clamp	2
56	15810.01	Head	1
57	15811.00	Blade Shield	1
58	00537.00	5 x 5 x 20mm Key	1
59	01601.00	Strain Relief	2
60	15812.01	Motor	1
61	16795.00	Worm Shaft	1
62	16796.00	Gear Flange	1
63	01760.00	6-1.0 x 16mm Socket Head Bolt	1
64	STD835020	8-1.25 x 20mm Hex Head Bolt*	2
65	15815.00	Vent Bolt	1
66	17687.00	Gear Box Assembly	1
67	15817.00	Line Cord	1
68	16462.00	Guard	1
Δ	21564.00	Capacitor, 300 MFD	1
Δ	24492.00	Capacitor, 25 MFD	1

* Standard hardware item available locally Δ Not Shown





REPLACEMENT PARTS LIST FOR GEAR BOX

KEY				
NO.	PART NO.	DESCRIPTION	QTY.	
1	15768.00	Lever	1	
2	15769.00	Spring	1	
3	15388.00	1/4" Steel Ball	1	
4	01939.00	3 x 20mm Spring Pin	1	
5	16790.00	Connecting Pin	1	
6	16789.00	Bracket with Pin	1	
7	05374.00	5-0.8 x 15mm Socket Head Bolt	1	
8	16797.00	5.8 x 1.9mm O-Ring	1	
9	17688.00	Gear Box	1	
10	06177.00	4-0.7 x 8mm Flat Head Screw	3	
11	16779.00	Speed Plate	1	
12	15773.00	59 x 3.7 mm O-Ring	1	
13	15774.00	Drain Plug	1	
14	00520.00	6201ZZ Bearing	5	
15	16781.00	6 x 6 x 15mm Key	1	
16	21713.00	Input Gear	1	
17	16782.00	Worm Gear	1	
18	21714.00	Sleeve	1	
19	16783.00	Gasket	1	
20	16784.00	Gear Box Cover	1	
21	15815.00	Vent Bolt	1	
22	01775.00	6-1.0 x 25mm Socket Head Bolt	5	
23	16785.00	Speed-Change Gear Assembly	1	
24	01900.00	3AMI-25 Retaining Ring	3	
25	STD315239	6205 Bearing*	2	
26	16786.00	Drive Shaft	1	
27	16787.00	5 x 5 x 80mm Key	1	
28	16794.00	Oil Seal	1	
29	17299.00	Transfer Gears Assembly	1	
30	01596.00	6 x 20mm Spring Pin	2	

* Standard hardware item available locally

 Δ Not Shown

Recommended Accessories				
Δ	Tool Stand	9-21410		
Δ	93 x ¾″ x 10TPI Blade	9-26570		
Δ	93 x ¾″ x 14 TPI Blade	9-26571		

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