

OPERATOR'S MANUAL



HORIZONTAL BAND SAW MODEL: BS-128M

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Table of Contents

THANK YOU & WARRANTY	. 1
INTRODUCTION	. 3
GENERAL NOTES	-
SAFETY INSTRUCTIONS	. 4
SAFETY PRECAUTIONS	. 6
Dear Valued Customer:	
TECHNICAL SPECIFICATIONS	. 8
TECHNICAL SUPPORT	
UNPACKING AND CHECKING CONTENTS	. 9
TRANSPORTING AND LIFTING	10
INSTALLATION	
GETTING TO KNOW YOUR MACHINE	
Lift Handle	
Vise	14
Angle Indicator	
ASSEMBLY AND SET UP	_
ELECTRICAL	
BEFORE EACH USE	20
Whenever Saw is Running	20
Breaking in a Band Saw Blade	
Metal Chip Indicators	21
Blade Terminology	
Width of Blade	
Length of Blade	
Blade structure	
Blade type	
SETS	
BLADE CARE	
CHOOSING A SAW BLADE	
BLADE BREAKAGE	
MATERIAL SELECTION	
OPERATION	
5	28
Descent Cylinder	
Cutting Operation	30
LUBRICATION AND MAINTENANCE	
Storing Machine for Extended Period of Time	
Saw Blade Replacement	
Blade Guide Bearing Adjustment	
Adjusting Blade Tension	
Adjusting the Blade Tracking	
SAW BOW PARTS DIAGRAM	36



SAW VISE AND BASE PARTS DIAGRAM	37
Parts List	38
ELECTRICAL SCHEMATIC	43
TROUBLESHOOTING	44



THANK YOU & WARRANTY

Thank you for your purchase of a machine from Baileigh Industrial Holdings LLC. We hope that you find it productive and useful to you for a long time to come.

Inspection & Acceptance. Buyer shall inspect all Goods within ten (10) days after receipt thereof. Buyer's payment shall constitute final acceptance of the Goods and shall act as a waiver of the Buyer's rights to inspect or reject the goods unless otherwise agreed. If Buyer rejects any merchandise, Buyer must first obtain a Returned Goods Authorization ("RGA") number before returning any goods to Seller. Goods returned without an RGA will be refused. Seller will not be responsible for any freight costs, damages to goods, or any other costs or liabilities pertaining to goods returned without a RGA. Seller shall have the right to substitute a conforming tender. Buyer will be responsible for all freight costs to and from Buyer and repackaging costs, if any, if Buyer refuses to accept shipment. If Goods are returned in unsalable condition, Buyer shall be responsible for full value of the Goods. Buyer may not return any special-order Goods. Any Goods returned hereunder shall be subject to a restocking fee equal to 30% of the invoice price.

Specifications. Seller may, at its option, make changes in the designs, specifications or components of the Goods to improve the safety of such Goods, or if in Seller's judgment, such changes will be beneficial to their operation or use. Buyer may not make any changes in the specifications for the Goods unless Seller approves of such changes in writing, in which event Seller may impose additional charges to implement such changes.

Limited Warranty. Seller warrants to the original end-user that the Goods manufactured or provided by Seller under this Agreement shall be free of defects in material or workmanship for a period of twelve (12) months from the date of purchase, provided that the Goods are installed, used, and maintained in accordance with any instruction manual or technical guidelines provided by the Seller or supplied with the Goods, if applicable. The original end-user must give written notice to Seller of any suspected defect in the Goods prior to the expiration of the warranty period. The original end-user must also obtain a RGA from Seller prior to returning any Goods to Seller for warranty service under this paragraph. Seller will not accept any responsibility for Goods returned without a RGA. The original end-user shall be responsible for all costs and expenses associated with returning the Goods to Seller for warranty service. In the event of a defect, Seller, at its sole option, shall repair or replace the defective Goods or refund to the original end-user the purchase price for such defective Goods. Goods are not eligible for replacement or return after a period of 10 days from date of receipt. The foregoing warranty is Seller's sole obligation, and the original end-user's exclusive remedy, with regard to any defective Goods. This limited warranty does not apply to: (a) die sets, tooling, and saw blades; (b) periodic or routine maintenance and setup, (c) repair or replacement of the Goods due to normal wear and tear, (d) defects or damage to the Goods resulting from misuse, abuse, neglect, or accidents, (f) defects or damage to the Goods resulting from improper or unauthorized alterations, modifications, or changes; and (f) any Goods that has not been installed and/or maintained in accordance with the instruction manual or technical guidelines provided by Seller.

EXCLUSION OF OTHER WARRANTIES. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY AND ALL OTHER EXPRESS, STATUTORY OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. NO WARRANTY IS MADE WHICH EXTENDS BEYOND THAT WHICH IS EXPRESSLY CONTAINED HEREIN.

Limitation of Liability. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY INCIDENTIAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR DOWN TIME) ARISING FROM OR IN MANNER CONNECTED WITH THE GOODS, ANY BREACH BY SELLER OR ITS AGENTS OF THIS AGREEMENT, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY. BUYER'S REMEDY WITH RESPECT TO ANY CLAIM ARISING UNDER THIS AGREEMENT IS STRICTLY LIMITED TO NO MORE THAN THE AMOUNT PAID BY THE BUYER FOR THE GOODS.



Force Majeure. Seller shall not be responsible for any delay in the delivery of, or failure to deliver, Goods due to causes beyond Seller's reasonable control including, without limitation, acts of God, acts of war or terrorism, enemy actions, hostilities, strikes, labor difficulties, embargoes, non-delivery or late delivery of materials, parts and equipment or transportation delays not caused by the fault of Seller, delays caused by civil authorities, governmental regulations or orders, fire, lightening, natural disasters or any other cause beyond Seller's reasonable control. In the event of any such delay, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay.

Installation. If Buyer purchases any Goods that require installation, Buyer shall, at its expense, make all arrangements and connections necessary to install and operate the Goods. Buyer shall install the Goods in accordance with any Seller instructions and shall indemnify Seller against any and all damages, demands, suits, causes of action, claims and expenses (including actual attorneys' fees and costs) arising directly or indirectly out of Buyer's failure to properly install the Goods.

Work By Others; Safety Devices. Unless agreed to in writing by Seller, Seller has no responsibility for labor or work performed by Buyer or others, of any nature, relating to design, manufacture, fabrication, use, installation or provision of Goods. Buyer is solely responsible for furnishing and requiring its employees and customers to use all safety devices, guards and safe operating procedures required by law and/or as set forth in manuals and instruction sheets furnished by Seller. Buyer is responsible for consulting all operator manuals, ANSI or comparable safety standards, OSHA regulations and other sources of safety standards and regulations applicable to the use and operation of the Goods.

Remedies. Each of the rights and remedies of Seller under this Agreement is cumulative and in addition to any other or further remedies provided under this Agreement or at law or equity.

Attorney's Fees. In the event legal action is necessary to recover monies due from Buyer or to enforce any provision of this Agreement, Buyer shall be liable to Seller for all costs and expenses associated therewith, including Seller's actual attorney fees and costs.

Governing Law/Venue. This Agreement shall be construed and governed under the laws of the State of Wisconsin, without application of conflict of law principles. Each party agrees that all actions or proceedings arising out of or in connection with this Agreement shall be commenced, tried, and litigated only in the state courts sitting in Manitowoc County, Wisconsin or the U.S. Federal Court for the Eastern District of Wisconsin. Each party waives any right it may have to assert the doctrine of "forum non conveniens" or to object to venue to the extent that any proceeding is brought in accordance with this section. Each party consents to and waives any objection to the exercise of personal jurisdiction over it by courts described in this section. Each party waives to the fullest extent permitted by applicable law the right to a trial by jury.

Summary of Return Policy.

- 10 Day acceptance period from date of delivery. Damage claims and order discrepancies will not be accepted after this time.
- You must obtain a Baileigh issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh in new condition and in original packaging.
- Altered items are not eligible for return.
- Buyer is responsible for all shipping charges.
- A 30% re-stocking fee applies to all returns.

Baileigh Industrial Holdings LLC makes every effort to ensure that our posted specifications, images, pricing and product availability are as correct and timely as possible. We apologize for any discrepancies that may occur. Baileigh Industrial Holdings LLC reserves the right to make any and all changes deemed necessary in the course of business including but not limited to pricing, product specifications, quantities, and product availability.

For Customer Service & Technical Support:

Please contact one of our knowledgeable Sales and Service team members at: (920) 684-4990 or e-mail us at sales@baileigh.com



INTRODUCTION

The quality and reliability of the components assembled on a Baileigh Industrial Holdings LLC machine guarantee near perfect functioning, free from problems, even under the most demanding working conditions. However, if a situation arises, refer to the manual first. If a solution cannot be found, contact the distributor where you purchased our product. Make sure you have the serial number and production year of the machine (stamped on the nameplate). For replacement parts refer to the assembly numbers on the parts list drawings.

Our technical staff will do their best to help you get your machine back in working order.

In this manual you will find: (when applicable)

- Safety procedures
- Correct installation guidelines
- Description of the functional parts of the machine
- Capacity charts
- Setup and start-up instructions
- Machine operation
- Scheduled maintenance
- Parts lists

GENERAL NOTES

After receiving your equipment remove the protective container. Do a complete visual inspection, and if damage is noted, **photograph it for insurance claims** and contact your carrier at once, requesting inspection. Also contact Baileigh Industrial Holdings LLC and inform them of the unexpected occurrence. Temporarily suspend installation.

Take necessary precautions while loading / unloading or moving the machine to avoid any injuries.

Your machine is designed and manufactured to work smoothly and efficiently. Following proper maintenance instructions will help ensure this. Try and use original spare parts, whenever possible, and most importantly; **DO NOT** overload the machine or make any modifications.



Note: This symbol refers to useful information throughout the manual.





IMPORTANT PLEASE READ THIS OPERATORS MANUAL CAREFULLY

It contains important safety information, instructions, and necessary operating procedures. The continual observance of these procedures will help increase your production and extend the life of the equipment.

SAFETY INSTRUCTIONS

LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, **BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY!**



Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word – **DANGER**, **WARNING**, or **CAUTION** – is used with the safety alert symbol. **NOTICE**, which is not related to personal injury, is used without a symbol.

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

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

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

NOTICE: Indicates a situation which, if not avoided, could result in property damage.







NOTICE



SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.



PROTECT EYES

Wear safety glasses or suitable eye protection when working on or around machinery.





PROTECT AGAINST NOISE

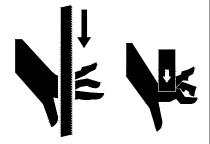
Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or earplugs to protect against objectionable or uncomfortable loud noises.





BEWARE OF CUT AND PINCH POINTS

Moving saw blade may result in loss of fingers or limb. **DO NOT** operate with guard removed. **Follow lockout/tagout procedures before servicing.**





EMERGENCY STOP BUTTON

In the event of incorrect operation or dangerous conditions, the machine can be stopped immediately by pressing the **E-STOP** button. Doing so activates the power off switch. When ready to continue machine operation press tabs on button, lift cover, and press green start button.





SAFE POSITIONING

The operator should stand in front of the machine while the saw is cutting.







CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm. www.P65Warnings.ca.gov



SAFETY PRECAUTIONS



Metal working can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

Safety equipment such as guards, hold-downs, safety glasses, dust masks and hearing protection can reduce your potential for injury. But even the best guard will not make up for poor judgment, carelessness or inattention. **Always use common sense** and exercise **caution** in the workshop. If a procedure feels dangerous, don't try it.

REMEMBER: Your personal safety is your responsibility.



WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

Dear Valued Customer:

- All Baileigh machines should be used only for their intended use.
- Baileigh does not recommend or endorse making any modifications or alterations to a Baileigh machine. Modifications or alterations to a machine may pose a substantial risk of injury to the operator or others and may do substantial damage to the machine.
- Any modifications or alterations to a Baileigh machine will invalidate the machine's warranty.

PLEASE ENJOY YOUR BAILEIGH MACHINE!PLEASE ENJOY IT SAFELY!

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE. Learn the machine's application and limitations as well as the specific hazards.
- 2. Only trained and qualified personnel can operate this machine.
- 3. Make sure guards are in place and in proper working order before operating machinery.



- 4. **Remove any adjusting tools.** Before operating the machine, make sure any adjusting tools have been removed.
- 5. **Keep work area clean.** Cluttered areas invite injuries.
- 6. **Overloading machine.** By overloading the machine, you may cause injury from flying parts. **DO NOT** exceed the specified machine capacities.
- 7. **Dressing material edges.** Always chamfer and deburr all sharp edges.
- 8. **Do not force tool.** Your machine will do a better and safer job if used as intended. **DO NOT** use inappropriate attachments in an attempt to exceed the machine's rated capacity.
- Use the right tool for the job. DO NOT attempt to force a small tool or attachment to do the work of a large industrial tool. DO NOT use a tool for a purpose for which it was not intended.
- 10. **Dress appropriately. DO NOT** wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Protective clothing and steel toe shoes are recommended when using machinery. Wear a restrictive hair covering to contain long hair.
- 11. **Use eye and ear protection**. Always wear ISO approved impact safety goggles. Wear a full-face shield if you are producing metal filings.
- 12. **Do not overreach**. Maintain proper footing and balance at all times. **DO NOT** reach over or across a running machine.
- 13. **Stay alert**. Watch what you are doing and use common sense. **DO NOT** operate any tool or machine when you are tired.
- 14. **Check for damaged parts**. Before using any tool or machine, carefully check any part that appears damaged. Check for alignment and binding of moving parts that may affect proper machine operation.
- 15. **Observe work area conditions**. **DO NOT** use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted. **DO NOT** use electrically powered tools in the presence of flammable gases or liquids.
- 16. **Blade adjustments and maintenance**. Always keep blades sharp and properly adjusted for optimum performance.
- 17. **Keep children away**. Children must never be allowed in the work area. **DO NOT** let them handle machines, tools, or extension cords.
- 18. Keep visitors a safe distance from the work area.
- 19. **Store idle equipment**. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep them out of reach of children.
- 20. **DO NOT operate machine if under the influence of alcohol or drugs**. Read warning labels on prescriptions. If there is any doubt, **DO NOT** operate the machine.
- 21. **Turn off** power before checking, cleaning, or replacing any parts. **DO NOT** touch live electrical components or parts.



- 22. Be sure **all** equipment is properly installed and grounded according to national, state, and local codes.
- 23. Keep all cords dry, free from grease and oil, and protected from sparks and hot metal.
- 24. Inspect power and control cables periodically. Replace if damaged or bare wires are exposed. **Bare wiring can kill! DO NOT** touch live electrical components or parts.
- 25. **DO NOT** bypass or defeat any safety interlock systems.

TECHNICAL SPECIFICATIONS

5" x 6" / 1.75" x 2.19" / 3" x 3.7" (128 x 150 / 44 x 56 / 75 x 95mm)
5" / 1.75" / 3.75" (128 / 44 / 95mm)
29" (740mm)
Swivel Head
45°R - 0° - 60°L
Manual
Closed Circuit Hydraulic Cylinder with Control Valve
.5" x .025" x 64.5" (13 x .65 x 1638mm)
78, 154, 200fpm (24, 47, 61mpm) Variable
Belt
110V, 60hz
.75hp (550w), 110V, 60hz, 10A
230lbs. (105kg)
38" x 22" x 25" (965 x 559 x 635mm)

TECHNICAL SUPPORT

Our technical support department can be reached at 920.684.4990 and asking for the support desk for purchased machines. Tech Support handles questions on machine setup, schematics, warranty issues, and individual parts needs: (other than die sets and blades). For specific application needs or future machine purchases contact the Sales Department at: sales@baileigh.com, Phone: 920.684.4990, or Fax: 920.684.3944.

Note: The photos and illustrations used in this manual are representative only and may not depict the actual color, labeling or accessories and may be intended to illustrate technique only.

Note: The specifications and dimensions presented here are subject to change without prior notice due to improvements of our products.



UNPACKING AND CHECKING CONTENTS

Your Baileigh machine is shipped complete. Separate all parts from the packing material and check each item carefully. Make certain all items are accounted for before discarding any packing material.

WARNING: SUFFOCATION HAZARD! Immediately discard any plastic bags and packing materials to eliminate choking and suffocation hazards to children and animals.

If any parts are missing, DO NOT place the machine into service until the missing parts are obtained and installed correctly.

Cleaning

WARNING: DO NOT USE gasoline or other petroleum products to clean the machine. They have low flash points and can explode or cause fire.

CAUTION: When using cleaning solvents work in a well-ventilated area. Many cleaning solvents are toxic if inhaled.

Your machine may be shipped with a rustproof waxy coating and/or grease on the exposed unpainted metal surfaces. Fully and completely remove this protective coating using a degreaser or solvent cleaner. Moving items will need to be moved along their travel path to allow for cleaning the entire surface. For a more thorough cleaning, some parts will occasionally have to be removed. **DO NOT USE** acetone or brake cleaner as they may damage painted surfaces.

Follow manufacturer's label instructions when using any type of cleaning product. After cleaning, wipe unpainted metal surfaces with a light coating of quality oil or grease for protection.

Important: This waxy coating is **NOT** a lubricant and will cause the machine to stick and lose performance as the coating continues to dry.







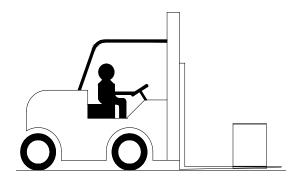


TRANSPORTING AND LIFTING

NOTICE: Lifting and carrying operations should be carried out by skilled workers, such as a truck operator, crane operator, etc. If a crane is used to lift the machine, attach the lifting chain carefully, making sure the machine is well balanced.

Follow these guidelines when lifting with truck or trolley:

- The lift truck must be able to lift at least 1.5 2 times the machines gross weight.
- Make sure the machine is balanced. While transporting, avoid rough or jerky motion, and maintain a safe clearance zone around the transport area.
- Use a fork lift with sufficient lifting capacity and forks that are long enough to reach the complete width of the machine.



- Remove the securing bolts that attach the machine to the pallet.
- Approaching the machine from the side, lift the machine on the frame taking care that there are no cables or pipes in the area of the forks.
- Move the machine to the required position and lower gently to the floor.
- Level the machine so that all the supporting feet are taking the weight of the machine and no rocking is taking place.

INSTALLATION

IMPORTANT:

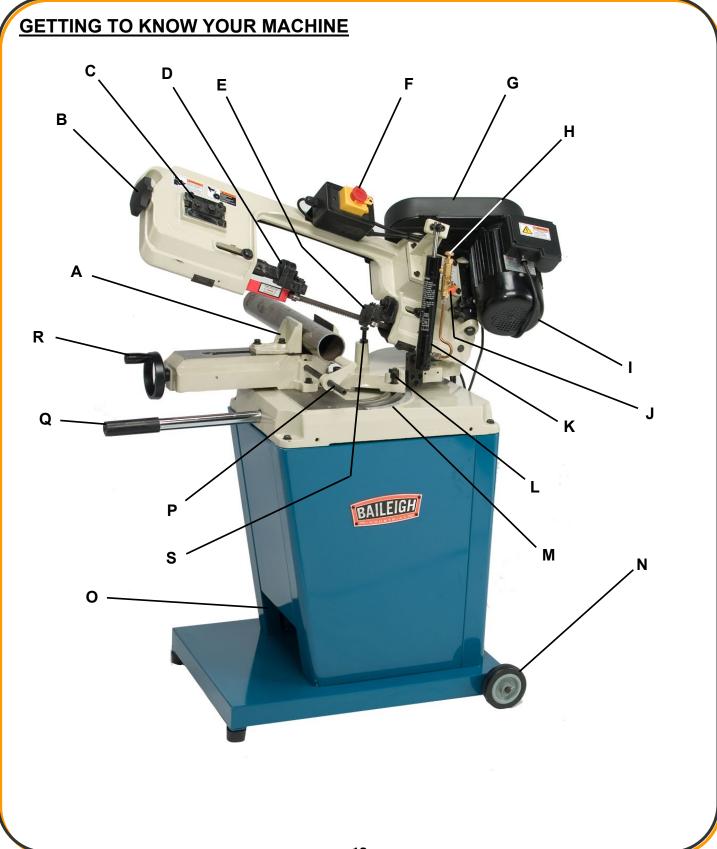
Consider the following when looking for a suitable location to place the machine:

- Overall weight of the machine.
- Weight of material being processed.
- Sizes of material to be processed through the machine.
- Space needed for auxiliary stands, work tables, or other machinery.
- Clearance from walls and other obstacles.
- Maintain an adequate working area around the machine for safety.
- Have the work area well illuminated with proper lighting.
- Keep the floor free of oil and make sure it is not slippery.



- Remove scrap and waste materials regularly, and make sure the work area is free from obstructing objects.
- If long lengths of material are to be fed into the machine, make sure that they will not extend into any aisles.
- **LEVELING:** The machine should be sited on a level, concrete floor. Provisions for securing it should be in position prior to placing the machine. The accuracy of any machine depends on the precise placement of it to the mounting surface.
- **FLOOR:** This machine distributes a large amount of weight over a small area. Make certain that the floor is capable of supporting the weight of the machine, work stock, and the operator. The floor should also be a level surface. If the unit wobbles or rocks once in place, be sure to eliminate by using shims.
- **WORKING CLEARANCES:** Take into consideration the size of the material to be processed. Make sure that you allow enough space for you to operate the machine freely.
- POWER SUPPLY PLACEMENT: The power supply should be located close enough to the
 machine so that the power cord is not in an area where it would cause a tripping hazard. Be
 sure to observe all electrical codes if installing new circuits and/or outlets.







Item	Description	Function						
Α	Front and Rear Jaw	For clamping material to be cut.						
В	Blade Tension Knob	Used to apply and control blade tension.						
С	Blade Tension Side Plate	Holds and adjusts driven blade pulley.						
D	Front/Lead-in Blade Guide Assembly	Adjustably guide assembly to guide the blade straight into the cut.						
Е	Rear/Lead-out Blade Guide Assembly	Stationary guide assembly to guide the blade straight out of the cut.						
F	On/Off /E-Stop Controls	Turns the motor on and off.						
G	Belt Guard	Covers the drive belt and pullies. Open this cover to change blade speeds. Never operate the saw with cover opened or removed.						
Н	Needle Valve	Controls the saw bow descent. Turn (cw) to slow the descent or (ccw) to accelerate.						
l	Motor	Supplies the power to drive the saw blade.						
J	Ball Valve	The On/Off control for the blade descent.						
K	Hydraulic Cylinder	Controls the raising and lowering of the saw bow.						
L	Adjustment Handle	Locks and unlocks the head for pivoting.						
М	Angle Indicator	Indicates the angle of cut.						
N	Wheel	Allows the saw to be more portable.						
0	Shelf	Place to store tools, etc.						
Р	Stop Rod Assembly	For setting length of cut for repeatability.						
Q	Lift Handle	Used to lift and steer/guide the saw during movement.						
R	Vise Hand-wheel	Turning the hand-wheel opens and closes the vise.						
S	Adjustable Head Stop Bolt	Determines how far down the saw bow will travel.						



Lift Handle

Handle slides out easily and is used to maneuver the band saw around. When finished using, it stores nicely back into the base casting.





CAUTION: Make sure saw bow is in a down or horizontal position before moving or mitering to avoid tipping over machine.

<u>Vise</u>

Make sure saw bow is in a down or horizontal position before moving or mitering to avoid tipping over machine.



Angle Indicator

Pulling up on the adjustable handle (L) disengages it while the stud remains stationary. This allows you to adjust the handle to the desired position. Releasing the handle reengages it for tightening and loosening. Now rotate the disk head assembly to the correct miter angle. Check the angle on the indicator (M) and lock in the angle.



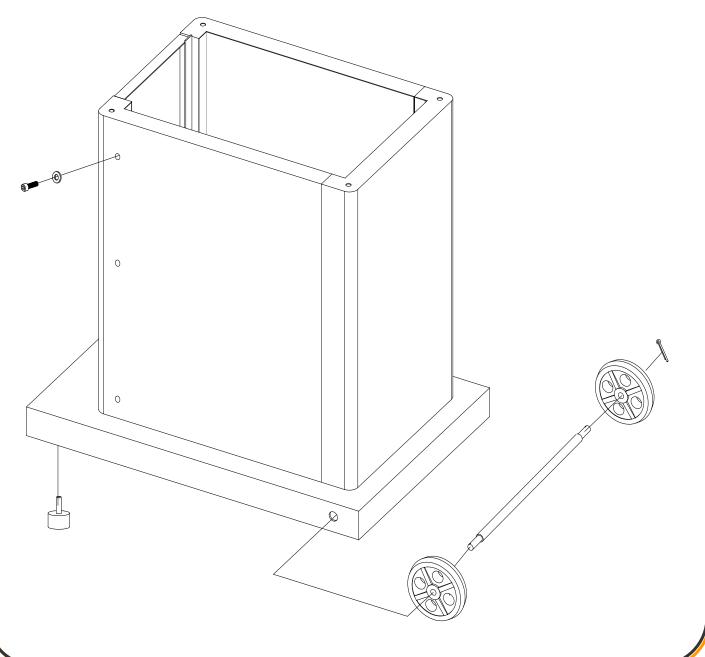
CAUTION: Check that the saw blade clears all parts of the vise assembly before cutting. The blade can strike parts of the assembly (especially during miter cuts) if not properly adjusted.



ASSEMBLY AND SET UP

WARNING: For your own safety, DO NOT connect the machine to the power source until the machine is completely assembled and you read and understand the entire instruction manual.

1. Assemble stand as shown in the figure below using supplied bag of hardware.





Two Person Lift. Use an assistant or lifting devise to support the weight of the

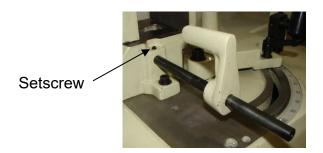
2. Set the band saw onto the assembled stand, taking care to line up the holes.

saw.

3. Using (4) hex bolts secure the saw head to the stand.



4. Attach the stop bar to the base as shown and tighten setscrew. (Can also be mounted on left hand side.)

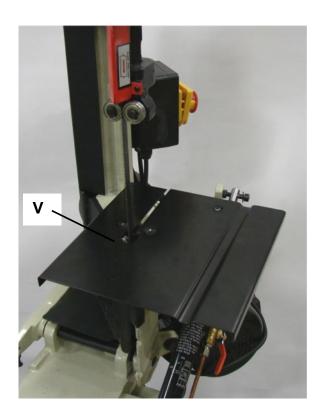




- To do vertical sawing:
 5. Raise saw head to vertical position.
- 6. Loosen rear blade adjustment bolt and attach support bracket (T).
- 7. Unscrew and replace shoe plate (U) with table (V).
- 8. Attach table to bracket (T) with flat head bolt and nut (not supplied).
- 9. Tighten all bolts.









ELECTRICAL

CAUTION: HAVE ELECTRICAL UTILITIES CONNECTED TO MACHINE BY A CERTIFIED ELECTRICIAN!

Check if the available power supply is the same as listed on the machine nameplate.

WARNING: Make sure the grounding wire (green) is properly connected to avoid electric shock. DO NOT switch the position of the green grounding wire if any electrical plug wires are switched during hookup.

Power Specifications

Your machine is wired for 110 volts, 60hz alternating current. Before connecting the machine to the power source, make sure the power source is OFF.

Before switching on the power, you must check the voltage and frequency of the power to see if they meet with the requirement, the allowed range for the voltage is $\pm 5\%$, and for the frequency is $\pm 1\%$.

Considerations

- Observe local electrical codes when connecting the machine.
- The circuit should be protected with a time delay fuse or circuit breaker with an amperage rating slightly higher than the full load current of machine.
- A separate electrical circuit should be used for your machines. Before connecting the motor
 to the power line, make sure the switch is in the "OFF" position and be sure that the electric
 current is of the same characteristics as indicated on the machine.
- All line connections should make good contact. Running on low voltage will damage the motor.
- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

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



- Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the machine is properly grounded.
- Repair or replace damaged or worn cord immediately.

Extension Cord Safety

Extension cord should be in good condition and meet the minimum wire gauge requirements listed below:

	LENGTH								
AMP RATING	25ft	50ft	100ft						
1-12	16	16	14						
13-16	14	12	12						
17-20	12	12	10						
21-30	10	No							
	WIRE GAUGE								

An undersized cord decreases line voltage, causing loss of power and overheating. All cords should use a ground wire and plug pin. Replace any damaged cords immediately.

Power cord connection:

- 1. Turn the main disconnect switch on the control panel to the OFF position.
- 2. Unwrap the power cord and route the cord away from the machine toward the power supply.
 - a. Route the power cord so that it will NOT become entangled in the machine in any way.
 - b. Route the cord to the power supply in a way that does NOT create a trip hazard.
- 3. Connect the power cord to the power supply and check that the power cord has not been damaged during installation.
- 4. When the machine is clear of any obstruction. The main power switch may be turn ON to test the operation. Turn the switch OFF when the machine is not in operation.



BEFORE EACH USE

- For dusty operations, wear a face shield along with safety goggles.
- It is important to choose the right blade for the material and the type of cutting you plan to do. This saw is equipped with a bi-metallic blade which can be used to cut stainless steel, steel, iron, brass, aluminum, wood, plastic.
- Make sure the direction of rotation arrow on the blade matches the direction arrow on the saw. The blade teeth should always point downward at the front of the saw.
- Make sure the blade is sharp, undamaged and properly aligned. With the saw unplugged, push the power-head all the way down. Rotate the blade by hand checking for clearance. If the blade hits anything, make the adjustments shown in the Maintaining Maximum Cutting Capacity section.
- Never cut freehand.
- Make sure the cut-off piece can move sideways after it is cut off. Otherwise, it could get wedged against the blade and thrown violently.
- Never turn the saw "ON" before clearing everything except the work piece beneath the blade.
- Never put lubricants on the blade while it is spinning.

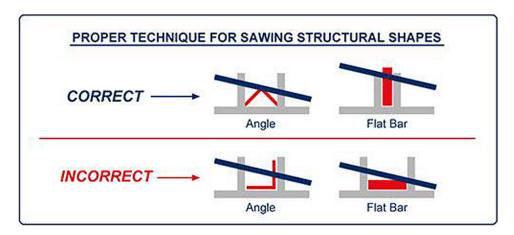
Whenever Saw is Running

- Never confine the piece being cut out.
- Never hold it, clamp it, touch it, or use length stops against it. It must be free to move sideways. If confined, it could get wedged against the blade and thrown violently.
- Avoid awkward hand positions where a sudden slip could cause a hand to move into the blade.
- Let the blade reach full speed before cutting.
- Feed the saw into the work piece only fast enough to let the blade cut without bogging down or binding.
- Before freeing jammed material, turn the switch off and unplug the saw. Wait for all moving parts to stop.
- After finishing a cut, keep holding the saw bow down, release the switch, and wait for all moving parts to stop before moving your hands.



Breaking in a Band Saw Blade

Sharp cutting edges with extremely small edge radii are required for high cutting capacity. To achieve the optimal tool life we recommend breaking-in the blade accordingly. The correct cutting speed is determined by the material being cut and its dimensions. It is very important that the new blade is first used with only 50% of the determined feed rate. This will avoid microbreakages of the blade because of too large chip thicknesses. New band saw blades may tend toward vibrations and vibration sounds. In this case a slight reduction of the cutting speed is helpful. With small workpiece dimensions approximately $300 \, \mathrm{cm^2}$ of the material should be cut for breaking-in. If large work piece dimensions are to be cut we recommend a breaking-in period of about 15 minutes. After breaking-in you may slowly increase the feed rate up to the determined value.



Metal Chip Indicators

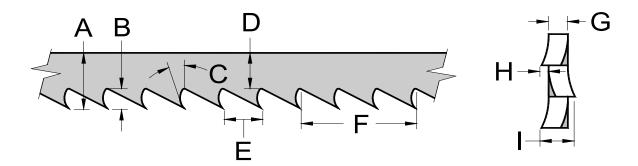
Chips are the best indicator of correct material feed force. Monitor chip information and adjust feed accordingly.

- Thin or Powdered Chips increase feed rate or reduce saw speed
- Burned Chips reduce feed rate and / or saw speed
- Curly Silvery and Warm Chips optimum feed rate and saw speed

Baileigh Industrial offers a wide selection of tooth styles for various cutting applications. Please phone Baileigh Industrial at (920.684.4990) or fax to (920.684.3944) to have one of our technicians assist you in selecting the proper band saw blade for your cutting applications.



Blade Terminology



Α	BLADE WIDTH	The widest part of the blade measured from the back edge of the blade to the tip of the tooth.
В	GULLET DEPTH	The distance from the tooth tip to the bottom of the curved area.
С	TOOTH RAKE	The angle of the tooth face from a line perpendicular to the length of the blade.
D	BLADE BACK	The distance between the back edge of the blade and the bottom of the gullet.
E	TOOTH PITCH	The distance between tooth tips.
F	TPI	The number of teeth per inch when measured from gullet to gullet.
G	GAUGE	The thickness of the blade.
Н	TOOTH SET	The distance a tooth is bent from the blade.
I	KERF	The width of material that is removed by the blade when cutting.

Width of Blade

The blade width determines the largest and the smallest curve that can be cut. Usually the wider a blade is, the more accurate and straighter it will cut.

Length of Blade

The length of the band saw blade can be measured with a tape measure at it's circumference or by the formula below:

 $\underline{\mathsf{Blade Length}} = (2 \times \mathsf{A}) + (3.14 \times \mathsf{B})$

A = the distance in inches between the band saw pulley centers (when the upper pulley is midway in its adjustment range).

B = the band saw pulley diameter.



Blade structure

Bi-metal blades are the most commonly used. They consist of a silicon-steel blade backing by a laser welded high speed steel (HHS) cutting edge. The type of stocks are classified in M2, M42, M51 and differ from each other because of their major hardness due to the increasing percentage of Cobalt (Cc) and molybdenum (Mo) contained in the metal alloy.

Blade type

They differ essentially in their constructive characteristics, such as:

- Shape and cutting angle of tooth
- Pitch
- Set

Shape and angle of tooth

REGULAR TOOTH: O° rake and constant pitch.



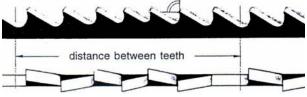
Most common form for transversal or inclined cutting of solid small and average cross-sections or pipes, in laminated mild steel and gray iron or general metal.

POSITIVE RAKE TOOTH: 9° - 10° positive rake and constant pitch.



Particular use for crosswise or inclined cuts in solid sections or large pipes, but above all harder materials (highly alloyed and stainless steels, special bronze and forge pig iron).

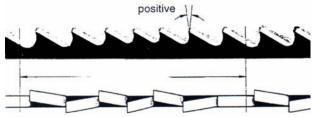
COMBO TOOTH: pitch varies between teeth and consequently varying teeth size and varying gullet depths. Pitch varies between teeth, which ensures a smoother, quieter cut and longer blade life owing to the lack of vibration.



Another advantage offered in the use of this type of blade in the fact that with an only blade it is possible to cut a wide range of different materials in size and type.



COMBO TOOTH: 9° - 10° positive rake.



This type of blade is the most suitable for the cutting of section bars and large and thick pipes as well as for the cutting of solid bars at maximum machine capacity. Available pitches: 3-4/4-6.

SETS

Saw teeth bent out of the plane of the saw body, resulting in a wide cut in the workpiece.



REGULAR OR RAKER SET: Cutting teeth right and left, alternated by a straight tooth.



Of general use for materials with dimensions superior to 5 mm. Used for the cutting of steel, castings and hard nonferrous materials.

WAVY SET: Set in smooth waves.



This set is associated with very fine teeth and it is mainly used for the cutting of pipes and thin section bars (from 1 to 3 mm).

ALTERNATE SET (IN GROUPS): Groups of cutting teeth right and left, alternated by a straight tooth.



This set is associated with very fine teeth and it is used for extremely thin materials (less than 1mm).

ALTERNATE SET (INDIVIDUAL TEETH): Cutting teeth right and left.



This set is used for the cutting of nonferrous soft materials, plastics and wood.



BLADE CARE

The bandsaw blade is subjected to a tremendous amount of strain. Make sure to always use the appropriate feed rate for the type material you are cutting.

Be sure to select a blade of the proper width, style, and pitch that will produce the best cut in your material. Choosing the wrong blade can produce excess heat that can adversely affect the life of the blade.

A clean blade performs much better than one that is dirty. Blades that are gummed up and dirty offer more resistance when cutting through the material. This in turn creates unnecessary heat in the blade.

CHOOSING A SAW BLADE

A general purpose blade is furnished with this band saw.

To achieve a quality, economical, and efficient saw cut, the following points must be taken into consideration:

- Type of material being cut (ferrous or non ferrous)
- Material hardness and physical dimensions
- Blade descent rate
- Longitudinal speed of blade
- Blade tooth profile

Choose a tooth pitch that is suitable for the workpiece. Thin walled profiles, including tubes and pipes require close toothing. At least 3-6 teeth should be in contact with the material while cutting. Large solid or transverse sections require widely spaced toothing to allow for greater volume of chips and better tooth penetration. Soft materials such as plastics, light alloys, mild bronze, Teflon, etc. require widely spaced toothing to avoid clogging.



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	29	5-8tpi	4-6tpi	3-4tpi	3-4tpi	3-4tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	1.4-2tpi	1.4-2tpi	1.4-2tpi	1.4-2tpi	1-1.4tpi	.75-1.25tp	.75-1.25tp	.75-1.25tp	.7-1.0tpi	.7-1.0tpi	.7-1.0tpi	.7-1.0tpi
	39.5	5-8tpi	4-6tpi	4-6tpi	3-4tpi	3-4tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	1.4-2tpi	1.4-2tpi	1.4-2tpi	1-1.4tpi	1-1.4tpi	.75-1.25tpi	.75-1.25tpi	.75-1.25tpi	.75-1.25tpi	.7-1.0tpi	\$ 112 m 10 00
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	31.5	5-8tpi	4-6tpi	4-6tpi	4-6tpi	3-4tpi	3-4tpi	3-4tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	2-3tpi	1.4-2tpi	1.4-2tpi	1.4-2tpi	1-1.4tpi	1-1.4tpi	1-1.4tpi	1-1.4tpi			A\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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s .	Inches	0.079	0.118	0.157	0.197	0.236	0.315	0.394	0.472	0.591	0.787	1.181	2	3	4	9	7.873	9.842	11.81	13.778	15.747	17.716	19.685

S= Wall Thickness
If you have to cut two or more tubes lying side by side please use this table in consideration of the double wall thinckness (s).



BLADE BREAKAGE

In some cases blade breakage is unavoidable due to the stresses that are imparted on the blade. Avoidable breakage is often the result of poor care, or poor operator judgment when it comes to adjusting or mounting the blade or blade guides.

Listed below are some of the more common reasons for blade breakage.

- Top blade guide assembly is set too high above the piece part.
- The blade is tensioned incorrectly.
- Piece part is fed into the blade too quickly.
- Blade teeth are dull or broken.
- Blade is not properly aligned with the guides.
- Forcing a large width blade to cut a small radius.
- Using a blade with an improperly finished weld joint.
- Allowing the blade to run when not in use. (**NEVER** leave an unattended blade running.)

MATERIAL SELECTION

CAUTION: It must be determined by the customer that materials being processed through the machine are NOT potentially hazardous to operator or personnel working nearby.

When selecting materials keep these instructions in mind:

- Material must be clean and dry. (without oil)
- Material should have a smooth surface so it processes easily.
- Dimensional properties of material must be consistent and not exceed the machine capacity values.
- Chemical structure of material must be consistent.
- Buy certificated steel from the same vendor when possible.



OPERATION

CAUTION: Always wear proper eye protection with side shields, safety footwear, and leather gloves to protect from burrs and sharp edges.

NEVER operate saw without blade guards in place.

Setting the Blade Speed

- 1. Use the following chart to determine the blade speed.
- 2. Disconnect the saw from the power source.
- 3. Remove the pulley cover and set the belt into the correct set of grooves to match the recommended blade speed for the material to be cut.
- 4. Replace and secure the pulley cover.
- 5. Connect the saw into the power source.

Material Cutting Chart

Material	Speed (FPM)	Belt Groove Used				
iviaterial	60hz	Motor Pulley	Saw Pulley			
Tool Steel, Stainless Alloy Steels, Bearing Bronze	78	Small	Large			
Mild Steel, Hard Brass or Bronze	154	Medium	Medium			
Aluminum, Plastics	200	Large	Small			



Motor Pulley

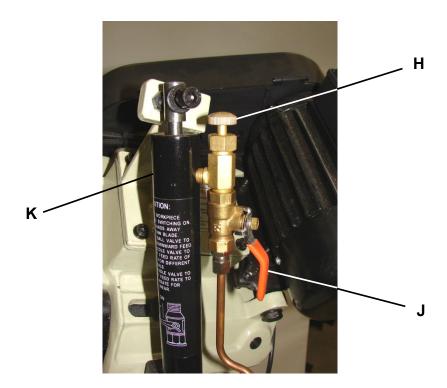
Saw Pulley



Descent Cylinder

A hydraulic cylinder (K) is used to control the drop rate of the saw head. The use of a hydraulic cylinder is ideal for cutting thin walled or stainless steel section bars. They require a constant drop rate to achieve a fine quality cut surface.

- To increase the feed rate, turn the needle valve control knob (H) counterclockwise (ccw).
- To decrease the feed rate, turn knob (H) clockwise (cw).
- To turn off the flow of hydraulic fluid and stop the blade descent, turn ball valve (J) counterclockwise (ccw) 90°.





Cutting Operation

CAUTION: Always wear proper eye protection with side shields, safety footwear, and leather gloves to protect from burrs and sharp edges.

NEVER operate saw without blade guards in place.

- 1. Make sure power is properly connected to saw and that all guards are in place.
- 2. With the saw OFF and NO material in the vise, raise the saw bow several inches and allow the bow to lower. Adjust the needle valve to increase or decrease the descent speed to controlled speed.
- 3. Raise saw head high enough to fully clear the material to be loaded into the vise and hold in place by closing ball valve on hydraulic cylinder.
- 4. Open vise and load material. (Provide additional support for longer material).
- 5. Be sure the blade is NOT in contact with the material when the motor is started.
- 6. Energize the motor by pressing the green start button.
- 7. Allow the saw to come to full speed, and then begin the cut by opening the ball valve and letting the head down slowly onto the work. DO NOT DROP OR FORCE THE BLADE.
- 8. Adjust the needle valve on the cylinder to increase or decrease the descent speed to produce the desired cut. Allow the weight of the saw head provide the cutting force.
- 9. The saw should automatically shut off at the end of the cut. If not, stop the saw by pressing the Red stop button.
- 10. Remove the cut as well as the uncut material from the saw. Clean the chips from the vise, blade guides and blade.



LUBRICATION AND MAINTENANCE

WARNING: Make sure the electrical disconnect is <u>OFF</u> before working on the machine.

Maintenance should be performed on a regular basis by qualified personnel.

Always follow proper safety precautions when working on or around any machinery.

- Check daily for any unsafe conditions and fix immediately.
- Check that all nuts and bolts are properly tightened.
- On a weekly basis clean the machine and the area around it.
- Lubricate threaded components and sliding devices.
- Apply rust inhibitive lubricant to all non-painted surfaces.



Note: Proper maintenance can increase the life expectancy of your machine.

Daily Maintenance

- Do a general cleaning by removing dust and metal chips from the machine.
- Inspect the saw blade for wear.
- Check that the blade guards and emergency stop button are in good working order.
- When through using machine, lower the saw head to its rest position.

Weekly Maintenance

- Thoroughly clean the machine.
- Clean and grease the vise screw and sliding surfaces.
- Clean the guard housing for the saw blade.
- Driven pulley bearing should receive (6-8 drops of SAE-30 oil)



Gearbox Oil

The drive gears run in an oil bath and will not require a lubricant change more often than once a year. The exception to this is if the lubricant becomes accidentally contaminated or a leak occurs because of improper replacement of the gear box cover. During the first few days of operation, the worm gear drive will run hot. Unless the temperature exceeds 200° F, there is no cause for alarm.

The following lubricants may be used for the gear box:

- Atlantic Refinery Co. Mogul Cylinder Oil
- Gulf Refinery Co Medium gear oil
- Pure Oil Co. Park Clipper
- Cities Service Optimus No. 6

Used oil products must be disposed of in a proper manner following your local regulations.

Storing Machine for Extended Period of Time

If the Band Saw is to be inactive for a long period of time, prepare the machine as follows:

- 1. Detach the plug from the electrical supply panel.
- 2. Clean and grease the machine.
- Release tension on the blade or remove blade.
- 4. Cover the machine

Saw Blade Replacement

Wear gloves when handling the saw blade!

- 1. Raise the saw head to a vertical position and remove the blade guard knob (W).
- 2. Carefully pull open the blade guard cover.



W

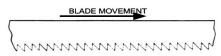


3. Remove guard (X) and loosen the tension screw knob (Y) sufficiently to allow saw blade to slip off the pulleys.



- 4. Install the new blade as follows with teeth slanting towards the motor.
- 5. Place the blade in between each of the guide bearings.
- 6. Slip the blade around the motor pulley (bottom) with the left hand and hold in position.
- 7. Hold the blade taut against the motor pulley by pulling the blade upward with the right hand which is placed at the top of the blade.
- 8. Remove left hand from bottom pulley and place it at the top side of the blade to continue upward pull on the blade.
- 9. Remove right hand from blade and adjust the position of the top pulley to permit left hand to slip the blade around the pulley using the thumb and fingers as guides.
- 10. Adjust the blade tension knob (Y) clockwise (cw) until it is just tight enough so no blade slippage occurs. DO NOT overtighten.
- 11. Replace the blade guards.
- 12. Place 2-3 drops of SAE-30 oil on the blade.







Blade Guide Bearing Adjustment

IMPORTANT: This is the most important adjustment on your saw. It is impossible to get satisfactory work from your saw if the blade guides are not properly adjusted. This saw has been adjusted and power tested before leaving the factory to insure proper setting. If the guides do get out of adjustment, it is extremely important to re-adjust immediately. An improperly adjusted blade will not cut straight and serious blade damage may result. It is always best to try a new blade to see if this will correct poor cutting before beginning to adjust the blade guide bearings. If the blade becomes dull on one side and not the other, for example, it will begin cutting crooked. A blade change will correct this problem; the guide adjustment will not. If a new blade does not correct the problem, check the clearance between the blade and guides. Clearance should be from just touching to .001".

The inner guide bearing is fixed and cannot be adjusted. The outer guide bearing is mounted to an eccentric bushing and can be adjusted.

- 1. Loosen the nut while holding the bolt with an allen wrench.
- 2. Position the eccentric by turning the bolt to the desired position of clearance.
- 3. Tighten the nut.
- 4. Adjust the second blade guide bearing in the same manner.



Front bearing assembly



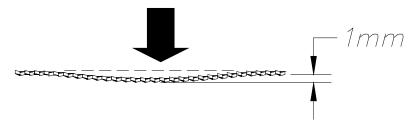
Rear bearing assembly



Adjusting Blade Tension

Disconnect power from saw before adjusting!

If available, use a blade tension gauge and follow manufacturer's instructions. Otherwise apply hand pressure to the blade as shown below. Adjust the blade tension knob accordingly.

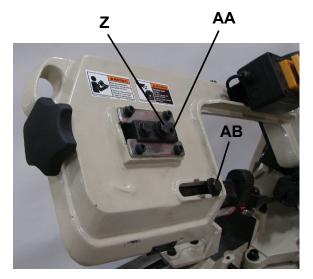


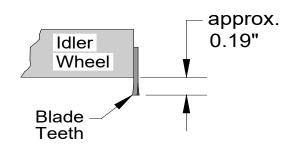
Adjusting the Blade Tracking

Disconnect power from saw before adjusting!

This adjustment has been completed and power tested at the factory. The need for adjusting should rarely occur with normal saw operation. If tracking does need modification, follow the procedure below:

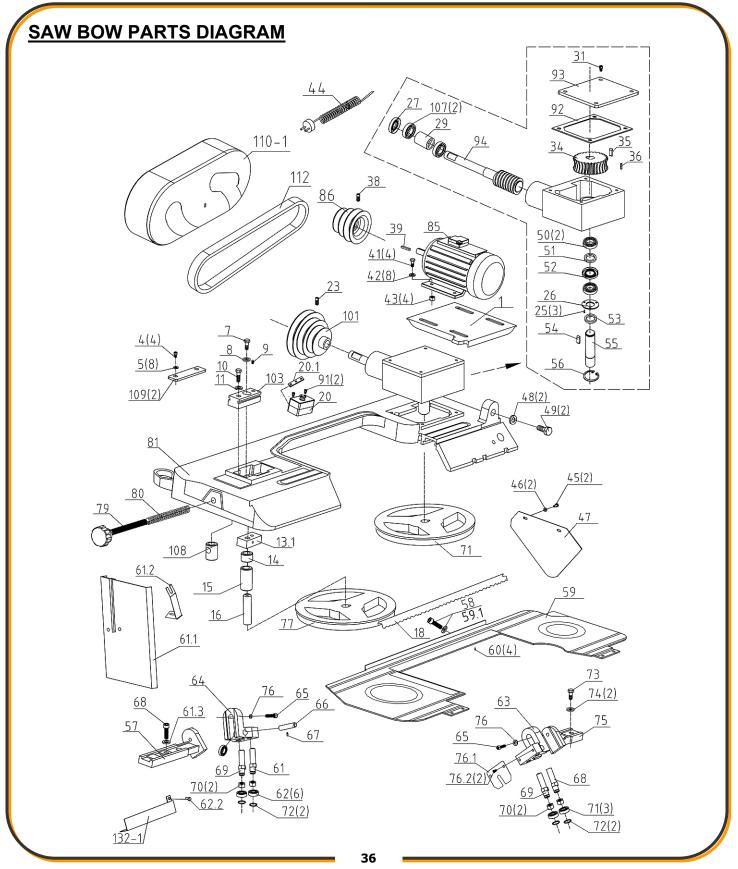
- 1. Loosen hex bolt (Z)
- 2. Adjust hex setscrew (AA) to make the blade track as shown below.
- 3. Re-tighten hex bolt (Z) after adjustment.



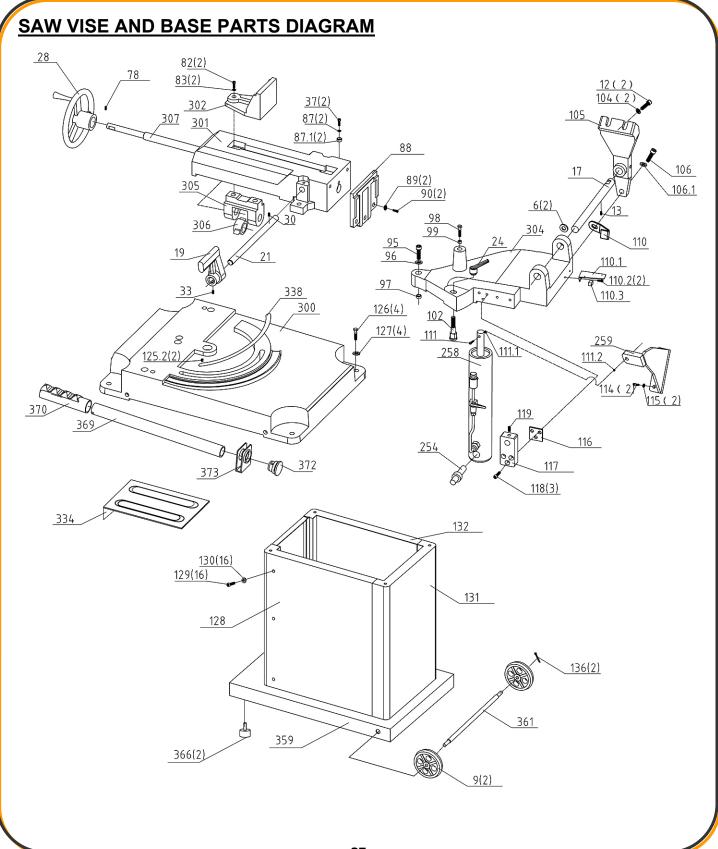


4. Loosen hex bolt (AB) to relocate the blade adjustment assembly for the size of material being cut.











Parts List

Item	Part No.	Description	Qty
1	BS128M-1	Motor Mounting Plate	1
4	BS128M-4	Socket Head Cap Screw	4
5	BS128M-5	Flat Washer	8
6	BS128M-6	Flat Washer	2
7	BS128M-7	Hex Head Screw	1
8	BS128M-8	Flat Washer	1
9	BS128M-9	Headless Hexagon Socket Screw	1
9	BS128M-9	Wheel	2
10	BS128M-10	Hex Head Screws	1
11	BS128M-11	Flat Washer	1
12	BS128M-12	Socket Head Cap Screw	2
13	BS128M-13	Set Screw	1
13.1	BS128M-13.1	Idler Shaft Seat Block	1
14	BS128M-14	Spacer Bushing	1
15	BS128M-15	Bearing	1
16	BS128M-16	Shaft	1
17	BS128M-17	Pivot Rod	1
18	BS128M-18	Blade (Must specify tooth count)	1
19	BS128M-19	Distance Set Bracket	1
20	BS128M-20	Switch Box	1
20.1	BS128M-20.1	Mounting Strip	1
21	BS128M-21	Stock Stop Rod	1
23	BS128M-23	Hex Socket Headless Screw	1
24	BS128M-24	Lock Handle	1
25	BS128M-25	Set Screw	3
26	BS128M-26	Retaining Plate	1
27	BS128M-27	Shaft Seal	1
28	BS128M-28	Hand Wheel	1
29	BS128M-29	Spacer	1
30	BS128M-30	Set Screw	1
31	BS128M-31	Socket Head Cap Screw	4
33	BS128M-33	Set Screw	1
34	BS128M-34	Gear	1



Item	Part No.	Description	Qty
35	BS128M-35	Key	1
36	BS128M-36	Pin	1
37	BS128M-37	Socket Head Cap Screw	2
38	BS128M-38	Set Screw	1
39	BS128M-39	Key	1
41	BS128M-41	•	4
42	BS128M-42	Hex Head Cap Screw Flat Washer	8
43	BS128M-43	Nut	4
44	BS128M-44	Power Cord	1
			+
45	BS128M-45	Socket Head Cap Screw	2
46	BS128M-46	Flat Washer	2
47	BS128M-47	Panel	1
48	BS128M-48	Flat Washer	2
49	BS128M-49	Hex Head Cap Screw	2
50	BS128M-50	Bearing	2
51	BS128M-51	Spacer	1
52	BS128M-52	Shaft Seal	1
53	BS128M-53	Spacer	1
54	BS128M-54	Key	1
55	BS128M-55	Shaft	1
56	BS128M-56	Internal Retaining Ring	1
57	BS128M-57	Blade Guide Mount	1
58	BS128M-58	Socket Head Cap Screw	1
59	BS128M-59	Blade Cover	1
59.1	BS128M-59.1	Flat Washer	1
60	BS128M-60	Socket Head Cap Screw	4
61	BS128M-61	Eccentric Shaft	2
61.1	BS128M-61.1	Vertical Saw Table	1
61.2	BS128M-61.2	Table Supporting Plate	1
61.3	BS128M-61.3	Flat Washer	2
62	BS128M-62	Guide Bearing 6000ZZ	6
62.2	BS128M-62.2	Socket Head Cap Screw	1
63	BS128M-63	Blade Adjustable Assembly (Rear)	1
64	BS128M-64	Blade Adjustable Assembly (Front)	1
65	BS128M-65	Socket Head Cap Screw	2



Item	Part No.	Description	Qty
66	BS128M-66	Bearing Axle Pin	2
67	BS128M-67	Set Screw	2
68	BS128M-68	Socket Head Cap Screw	1
69	BS128M-69	Eccentric Shaft	2
70	BS128M-70	Nut	4
71	BS128M-71	Guide Bearing 6000ZZ	3
71	BS128M-71	Blade Driven Wheel	1
72	BS128M-72	Retaining Ring	4
73	BS128M-73	Hex Head Cap Screw	1
74	BS128M-74	Flat Washer	2
75	BS128M-75	Adjustable Bracket (Right)	1
76	BS128M-76	Flat Washer	2
76.1	BS128M-76.1	Shield	1
76.2	BS128M-76.2	Socket Head Cap Screw	2
77	BS128M-77	Blade Idler Wheel	1
78	BS128M-78	Set Screw	1
79	BS128M-79	Blade Tension Adjustable Knob	1
80	BS128M-80	Blade Tension Spring	1
81	BS128M-81	Saw Blade Bow	1
82	BS128M-82	Hex Head Cap Screw	2
83	BS128M-83	Flat Washer	2
85	BS128M-85	Saw Motor	1
86	BS128M-86	Drive Sheave Assembly	1
87	BS128M-87	Flat Washer	2
87.1	BS128M-87.1	Nut	2
88	BS128M-88	Vise Plate, Stationary	1
89	BS128M-89	Flat Washer	2
90	BS128M-90	Socket Head Cap Screw	2
91	BS128M-91	Pan Head Screw	2
92	BS128M-92	Gasket	1
93	BS128M-93	Cover	1
94	BS128M-94	Worm Gear Shaft	1
95	BS128M-95	Socket Head Cap Screw	1
96	BS128M-96	Flat Washer	1
97	BS128M-97	Nut	1

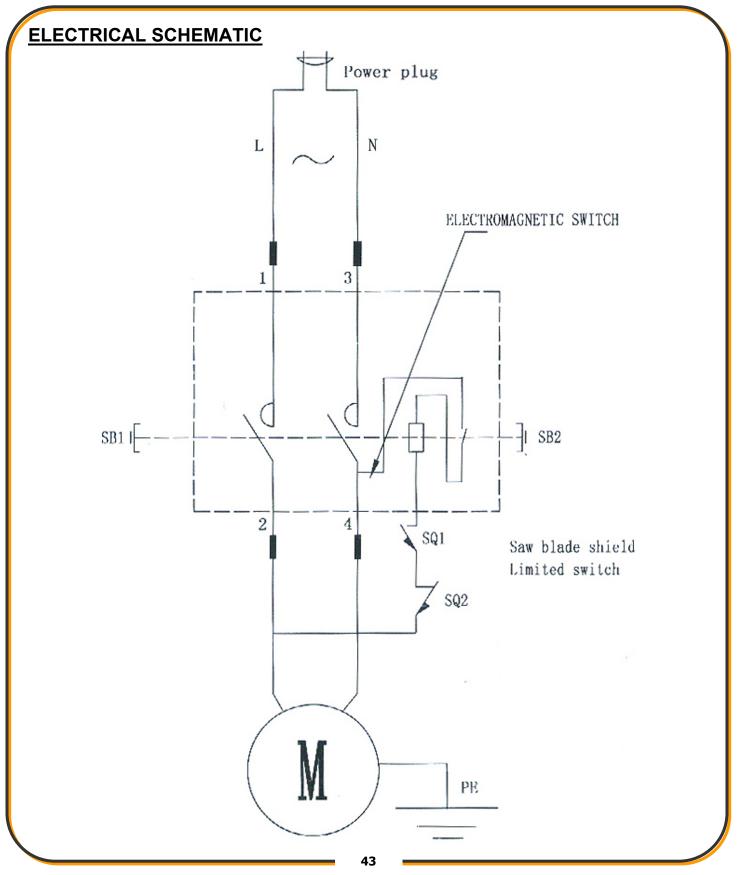


BS128M-98	Item	Part No.	Description	Otv
99 BS128M-99 Nut 1 101 BS128M-101 Driven Sheave Assembly 1 102 BS128M-102 T-Neck Pivot Bolt 1 103 BS128M-103 Blade Tension Sliding Bracket 1 104 BS128M-104 Flat Washer 2 105 BS128M-105 Pivot 1 106 BS128M-106 Socket Head Cap Screw 1 107 BS128M-106.1 Flat Washer 1 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110.1 Mounting Angle 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.1 Mounting Angle 1			Description Heavilled Con Serow	Qty
101 BS128M-101 Driven Sheave Assembly 1 102 BS128M-102 T-Neck Pivot Bolt 1 103 BS128M-103 Blade Tension Sliding Bracket 1 104 BS128M-104 Flat Washer 2 105 BS128M-105 Pivot 1 106 BS128M-106 Socket Head Cap Screw 1 106.1 BS128M-106.1 Flat Washer 1 107 BS128M-108 Shaft Block 1 108 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110.3 Block 1 110.1 BS128M-110.3 Block 1 110.1 BS128M-110.3 Block 1 110.1 BS128M-110.3 Block 1 <tr< td=""><td></td><td></td><td>·</td><td></td></tr<>			·	
102 BS128M-102 T-Neck Pivot Bolt 1 103 BS128M-103 Blade Tension Sliding Bracket 1 104 BS128M-104 Flat Washer 2 105 BS128M-105 Pivot 1 106 BS128M-106 Socket Head Cap Screw 1 106.1 BS128M-106.1 Flat Washer 1 107 BS128M-107 Bearing 2 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111 Washer 1 112 BS128M-111 Drive Belt 1 <				-
103 BS128M-103 Blade Tension Sliding Bracket 1 104 BS128M-104 Flat Washer 2 105 BS128M-105 Pivot 1 106 BS128M-106 Socket Head Cap Screw 1 106.1 BS128M-106.1 Flat Washer 1 107 BS128M-107 Bearing 2 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111 Washer 1 111.2 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2			2	
104 BS128M-104 Flat Washer 2 105 BS128M-105 Pivot 1 106 BS128M-106 Socket Head Cap Screw 1 106.1 BS128M-106.1 Flat Washer 1 107 BS128M-107 Bearing 2 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110.3 Block 1 110-1 BS128M-110.1 Belt Cover 1 111 BS128M-110.1 Washer 1 111.1 BS128M-111 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-114 Socket Head Cap Screw 2 115				
105 BS128M-105 Pivot 1 106 BS128M-106 Socket Head Cap Screw 1 106.1 BS128M-106.1 Flat Washer 1 107 BS128M-107 Bearing 2 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110.3 Block 1 110-1 BS128M-110.1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 <t< td=""><td></td><td></td><td>_</td><td></td></t<>			_	
106 BS128M-106 Socket Head Cap Screw 1 106.1 BS128M-106.1 Flat Washer 1 107 BS128M-107 Bearing 2 108 BS128M-109 Blade Tension Sliding Guide 2 109 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110.3 Block 1 110-1 BS128M-111.0 Belt Cover 1 111 BS128M-111.1 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-111.2 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1		BS128M-104	Flat Washer	
106.1 BS128M-106.1 Flat Washer 1 107 BS128M-107 Bearing 2 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110.3 Block 1 110-1 BS128M-110.1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 111.2 BS128M-111.2 Drive Belt 1 112 BS128M-112 Drive Belt 1 114 BS128M-115 Flat Washer 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117	105	BS128M-105	Pivot	1
107 BS128M-107 Bearing 2 108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 16 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 1	106	BS128M-106	Socket Head Cap Screw	1
108 BS128M-108 Shaft Block 1 109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 16 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-125.2 Rivet 2	106.1	BS128M-106.1	Flat Washer	1
109 BS128M-109 Blade Tension Sliding Guide 2 110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-11.1 Washer 1 111.2 BS128M-11.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2	107	BS128M-107	Bearing	2
110 BS128M-110 Anchor 1 110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-11.1 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-112 Drive Belt 1 115 BS128M-114 Socket Head Cap Screw 2 116 BS128M-115 Flat Washer 2 117 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126	108	BS128M-108	Shaft Block	1
110.1 BS128M-110.1 Mounting Angle 1 110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-11.1 Washer 1 112 BS128M-11.2 Drive Belt 1 114 BS128M-112 Drive Belt 1 115 BS128M-114 Socket Head Cap Screw 2 116 BS128M-115 Flat Washer 2 117 BS128M-116 Spacer Plate 1 117 BS128M-116 Spacer Plate 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-118 Socket Head Cap Screw 3 119 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-126 Hex Head Cap Screw 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 <td>109</td> <td>BS128M-109</td> <td>Blade Tension Sliding Guide</td> <td>2</td>	109	BS128M-109	Blade Tension Sliding Guide	2
110.2 BS128M-110.2 Socket Head Cap Screw 2 110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 112.2 BS128M-111.2 Nut 1 112.2 BS128M-112 Drive Belt 1 114.3 BS128M-114 Socket Head Cap Screw 2 115.3 BS128M-115 Flat Washer 2 116.3 BS128M-116 Spacer Plate 1 117.3 BS128M-116 Spacer Plate 1 118.3 BS128M-117 Cylinder Mounting Block 1 118.3 BS128M-118 Socket Head Cap Screw 3 119.3 BS128M-119 Set Screw 1 125.2 BS128M-120 Rivet 2 126.3 BS128M-126 Hex Head Cap Screw 4 127.3 BS128M-127 Flat Washer 4 128.3 BS128M-128 Base Panel, Material Outfeed Side 1	110	BS128M-110	Anchor	1
110.3 BS128M-110.3 Block 1 110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 112 BS128M-112.2 Nut 1 112 BS128M-112.2 Drive Belt 1 114 BS128M-114.1 Socket Head Cap Screw 2 115 BS128M-115.5 Flat Washer 2 116 BS128M-116.5 Spacer Plate 1 117 BS128M-116.5 Spacer Plate 1 118 BS128M-117.5 Cylinder Mounting Block 1 118 BS128M-118.5 Socket Head Cap Screw 3 119 BS128M-119.5 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126.5 Hex Head Cap Screw 4 127 BS128M-128.5 Base Panel, Material Outfeed Side 1 129 BS128M-128.5 Base Panel, Material Outfeed Side 1 130 BS128M-130.5 Flat Washer <td< td=""><td>110.1</td><td>BS128M-110.1</td><td>Mounting Angle</td><td>1</td></td<>	110.1	BS128M-110.1	Mounting Angle	1
110-1 BS128M-110-1 Belt Cover 1 111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1 <	110.2	BS128M-110.2	Socket Head Cap Screw	2
111 BS128M-111 Socket Head Cap Screw 1 111.1 BS128M-111.1 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-116 Spacer Plate 1 118 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1 <td>110.3</td> <td>BS128M-110.3</td> <td>Block</td> <td>1</td>	110.3	BS128M-110.3	Block	1
111.1 BS128M-111.1 Washer 1 111.2 BS128M-111.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-125.2 Rivet 2 127 BS128M-126 Hex Head Cap Screw 4 127 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	110-1	BS128M-110-1	Belt Cover	1
111.2 BS128M-111.2 Nut 1 112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-126 Hex Head Cap Screw 4 128 BS128M-127 Flat Washer 4 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	111	BS128M-111	Socket Head Cap Screw	1
112 BS128M-112 Drive Belt 1 114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-126 Hex Head Cap Screw 4 128 BS128M-127 Flat Washer 4 129 BS128M-128 Base Panel, Material Outfeed Side 1 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	111.1	BS128M-111.1	Washer	1
114 BS128M-114 Socket Head Cap Screw 2 115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	111.2	BS128M-111.2	Nut	1
115 BS128M-115 Flat Washer 2 116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	112	BS128M-112	Drive Belt	1
116 BS128M-116 Spacer Plate 1 117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	114	BS128M-114	Socket Head Cap Screw	2
117 BS128M-117 Cylinder Mounting Block 1 118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	115	BS128M-115	Flat Washer	2
118 BS128M-118 Socket Head Cap Screw 3 119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	116	BS128M-116	Spacer Plate	1
119 BS128M-119 Set Screw 1 125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	117	BS128M-117	Cylinder Mounting Block	1
125.2 BS128M-125.2 Rivet 2 126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	118	BS128M-118	Socket Head Cap Screw	3
126 BS128M-126 Hex Head Cap Screw 4 127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	119	BS128M-119	Set Screw	1
127 BS128M-127 Flat Washer 4 128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	125.2	BS128M-125.2	Rivet	2
128 BS128M-128 Base Panel, Material Outfeed Side 1 129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	126	BS128M-126	Hex Head Cap Screw	4
129 BS128M-129 Socket Head Cap Screw 16 130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	127	BS128M-127	Flat Washer	4
130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	128	BS128M-128	Base Panel, Material Outfeed Side	1
130 BS128M-130 Flat Washer 16 131 BS128M-131 Base Panel, Wheel End 1	129	BS128M-129	Socket Head Cap Screw	16
131 BS128M-131 Base Panel, Wheel End 1	130	BS128M-130	Flat Washer	16
			,	1



Item	Part No.	Description	Qty
132-1	BS128M-132-1	Blade Guard, Infeed Side	1
136	BS128M-136	Cotter Pin	2
254	BS128M-254	Cylinder Mounting Pin	1
258	BS128M-258	Bow Cylinder and Valve Assembly	1
259	BS128M-259	Bow Cylinder Mount	1
300	BS128M-300	Saw Base	1
301	BS128M-301	Vise Body	1
302	BS128M-302	Vise Plate, Movable	1
304	BS128M-304	Saw Bow Swivel Casting	1
305	BS128M-305	Acme Nut Bracket	1
306	BS128M-306	Acme Nut	1
307	BS128M-307	Acme Screw	1
334	BS128M-334	Protect Plate	1
338	BS128M-338	Scale	1
359	BS128M-359	Cabinet Base	1
361	BS128M-361	Axle Shaft	1
366	BS128M-366	Rubber Head Screw	2
369	BS128M-369	Knob W/Shaft	1
370	BS128M-370	Knob	1
371	BS128M-371	Cotter Pin	1
372	BS128M-372	Handle Shaft Stopper	1
373	BS128M-373	Screw Plate	1







TROUBLESHOOTING

WARNING: Make sure the electrical disconnect is <u>OFF</u> before working on the machine.

SYMPTOM	POSSIBLE CAUSE (S)	CORRECTIVE ACTION
	Material loose in vise	Clamp work securely
	Incorrect speed or feed	Adjust speed or feed
	Blade tooth spacing too large	Replace with a small tooth spacing blade
	Material too coarse	Use a slow speed blade an small tooth spacing
Excessive Blade Breakage	Incorrect blade tension	Adjust to where blade does not slip on wheel
	Teeth in contact with material before saw is started	Start saw and lower into work piece
	Blade rubs on wheel flange	Adjust wheel alignment
	Misaligned guide bearings	Adjust guide bearings
	Cracking at weld	Weld again, note quality of weld
	Teeth too coarse	Use finer teeth
	Too much speed	Decrease speed
	Inadequate feed pressure	Decrease spring tension on side of saw
Premature Blade Dulling	Hard spots or scale on material	Reduce speed, increase feed pressure
	Work hardening of material	Increase feed pressure by reducing spring tension
	Blade twist	Replace with a new blade, and adjust blade tension



Insufficient blade	Tighten blade tension adjustable knob
Blade guides worn	Replace
Blade guide bearings not adjusted properly	Adjust as per operators manual
Blade guide bearing bracket is loose	Tighten
Teeth too coarse for work	Use finer tooth blade
Too heavy pressure, too slow speed	Decrease pressure, increase speed
Vibrating work piece	Clamp work piece securely
Gullets loading	Use coarse tooth blade or brush to remove chips
Blade tension too high	Reduce tension on blade
Drive belt tension too high	Reduce tension on drive belt
Gears need lubrication	Check oil bath
Cut is binding blade	Decrease feed and speed
Gears aligned improperly	Adjust gears so that worm is in center
Feed pressure too great	Reduce pressure by increasing spring tension on side of saw
Guide bearing not adjusted properly	Adjust guide bearing, the clearance can not be greater than .001mm
Inadequate blade tension	Increase blade tension with tension knob
Dull blade	Replace blade
Speed incorrect	Adjust speed
Blade guide spaced out too much	Adjust speed Adjust guide space
	Blade guides worn Blade guide bearings not adjusted properly Blade guide bearing bracket is loose Teeth too coarse for work Too heavy pressure, too slow speed Vibrating work piece Gullets loading Blade tension too high Drive belt tension too high Gears need lubrication Cut is binding blade Gears aligned improperly Feed pressure too great Guide bearing not adjusted properly Inadequate blade tension Dull blade Speed incorrect Blade guide spaced out too



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	Blade guide assembly loose	Tighten blade guide assembly
	Blade truck too far away from wheel flanges	Re-track blade according to operating instructions
	Too much speed or feed	Decrease speed or feed
Bad Cuts (Rough)	Blade is too coarse	Replace with finer blade
	Blade tension loose	Adjust blade tension
	Cut is binding blade	Decrease feed pressure
Blade is Twisting		
	Too much blade tension	Decrease blade tension



NOTES



NOTES



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