

# 5" X 6" METAL CUTTING BANDSAW



## **OWNER'S MANUAL**

(FOR MODELS MANUFACTURED SINCE 6/09)

Phone: (360) 734-3482 · Online Technical Support: tech-support@shopfox.biz

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#6731CR

**Printed in China** 



This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

Failure to read, understand and follow the instructions given in this manual may result in serious personal injury, including amputation, electrocution or death.

The owner of this machine/equipment is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, blade/cutter integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



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

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

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



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## INTRODUCTION

#### **Woodstock Technical Support**

This machine has been specially designed to provide many years of trouble-free service. Close attention to detail, ruggedly built parts and a rigid quality control program assure safe and reliable operation.

Woodstock International, Inc. is committed to customer satisfaction. Our intent with this manual is to include the basic information for safety, setup, operation, maintenance, and service of this product.

We stand behind our machines! In the event that questions arise about your machine, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: <u>tech-support@shopfox.</u> <u>biz.</u> Our knowledgeable staff will help you troubleshoot problems and process warranty claims.

If you need the latest edition of this manual, you can download it from <a href="http://www.shopfox.biz">http://www.shopfox.biz</a>. If you have comments about this manual, please contact us at:

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# MACHINE SPECIFICATIONS



Phone #: (360) 734-3482 • Online Tech Support: tech-support@shopfox.biz • Web: www.shopfox.biz

#### MODEL M1013 5" X 6" METAL CUTTING BANDSAW

Moto	r	
	Type TEFC Capacitor Start Induct Horsepower	HP 20V 10V gle .5A PW Hz 1
Main	Specifications	
	Operation Info	
	Blade Speeds	1/2'
	Cutting Capacities	
	Angle Cuts	3/8' 1/2' . 5' . 6' 3/4' /16' 3/4' . 5' 3/4'
	Table info	
	Length	1/2



Ove	rall Dimensions
	Weight       150 lbs.         Length       39"         Width $23^3/8$ "         Height $54^3/4$ "         Foot Print (Length/Width) $26^1/2$ " x $20^1/2$ "
Con	struction Materials
	Table
Ship	ping Dimensions
	Weight       176 lbs.         Length       41"         Width       19"         Height       22"
Elec	trical
	Switch
Oth	
	Wheel Size

#### **Features**

Control Panel Conveniently Located Adjustable Hydraulic Downfeed Quick Release Vise for Rapid Workpiece Change-Out Blade Included



#### **Controls and Features**

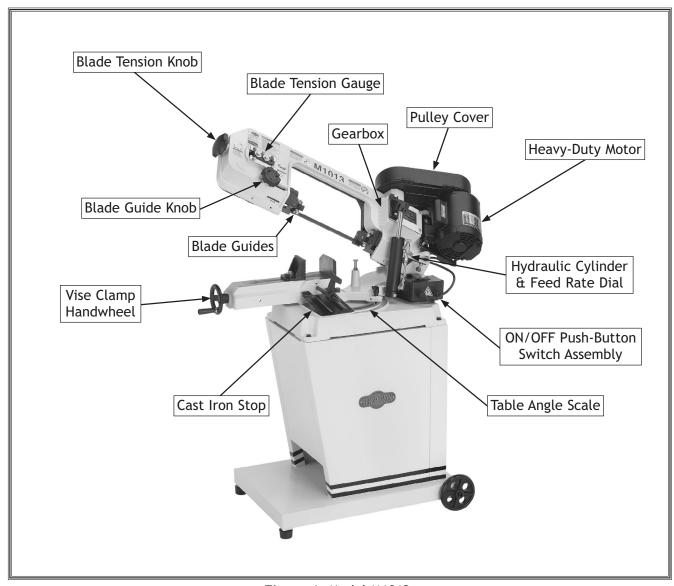


Figure 1. Model M1013.



## **SAFETY**

# READ MANUAL BEFORE OPERATING MACHINE. FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL RESULT IN PERSONAL INJURY.

## **A**DANGER

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

#### **AWARNING**

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

#### **A**CAUTION

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

#### **NOTICE**

This symbol is used to alert the user to useful information about proper operation of the equipment, and/or a situation that may cause damage to the machinery.

#### **Standard Safety Instructions**

- 1. **READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY.** Machinery presents serious injury hazards to untrained users.
- 2. ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY. Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.
- 3. ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST. Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.
- 4. ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY. Machinery noise can cause permanent hearing damage.
- 5. WEAR PROPER APPAREL. DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
- 6. NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Be mentally alert at all times when running machinery.
- 7. ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY. Make sure operation instructions are safe and clearly understood.
- **8. KEEP CHILDREN AND VISITORS AWAY.** Keep all children and visitors a safe distance from the work area.
- 9. MAKE WORKSHOP CHILD PROOF. Use padlocks, master switches, and remove start switch keys.



- 10. NEVER LEAVE WHEN MACHINE IS RUNNING. Turn power *OFF* and allow all moving parts to come to a complete stop before leaving machine unattended.
- **11. DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
- 12. KEEP WORK AREA CLEAN AND WELL LIT. Clutter and dark shadows may cause accidents.
- 13. USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE. Undersized cords overheat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.
- **14. ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY**. Make sure switch is in OFF position before reconnecting.
- **15. MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.
- **17. REMOVE ADJUSTING KEYS AND WRENCHES.** Make a habit of checking for keys and adjusting wrenches before turning machinery **ON**.
- **18. CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY.** Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
- **19. USE RECOMMENDED ACCESSORIES.** Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 20. DO NOT FORCE MACHINERY. Work at the speed for which the machine or accessory was designed.
- **21. SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.
- 22. DO NOT OVERREACH. Keep proper footing and balance at all times.
- 23. MANY MACHINES WILL EJECT THE WORKPIECE TOWARD THE OPERATOR. Know and avoid conditions that cause the workpiece to "kickback."
- 24. ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.
- 25. BE AWARE THAT CERTAIN DUST MAY BE HAZARDOUS to the respiratory systems of people and animals, especially fine dust. Make sure you know the hazards associated with the type of dust you will be exposed to and always wear a respirator approved for that type of dust.



## Additional Safety for Metal Cutting Bandsaws



#### **AWARNING**

READ and understand this entire manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!

#### **ACAUTION**

USE this and other machinery with caution and respect. Always consider safety first, as it applies to your individual working conditions. No list of safety guidelines can be complete—every shop environment is different. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.

- 1. Blade Condition: Do not operate with a dull, cracked or badly worn blade—they can break during use or greatly decrease cutting performance. Inspect blades for cracks and missing teeth before each use.
- 2. Blade Replacement: Wear gloves to protect hands and safety glasses to protect eyes when replacing the blade. When replacing blades, make sure teeth face forward and down toward the table in the direction of blade travel.
- 3. Workpiece Handling: Your hands can be cut or drawn into the blade during operation if the workpiece moves unexpectedly. Always keep your hands a safe distance away from the moving blade.
- 4. Magnesium Fire Hazard: Use EXTREME CAUTION if cutting magnesium. Using the wrong cutting fluid or overheating material could lead to an extremely hot fire that is difficult to extinguish. Additionally, do not allow magnesium swarf or dust to pile up around the machine and only dispose of the waste using approved methods.
- **5. Hot Surfaces:** Be aware that touching hot workpieces or chips after welding, grinding, or cutting can cause burns.
- 6. Cutting Fluid Safety: If cutting fluid is used for operations, only use the minimum amount necessary, and promptly clean it from the machine and work area after use. Cutting fluid is associated with skin disease, lung damage, and cancer. Avoid breathing, ingesting, or touching cutting fluid and always wear approved personal protective equipment when using or cleaning it. Always follow the manufacturer's recommendation to ensure safe and appropriate use.
- 7. Entanglement Hazards: Always keep the blade guard correctly positioned and wheel doors closed and secured when bandsaw is in operation. Loose clothing, jewelry, long hair and work gloves can be drawn into working parts.
- 8. Unstable Workpieces: Workpieces that cannot be supported or stabilized without a vise or jig should not be cut on a vertical metal-cutting bandsaw, because they can unexpectedly move while cutting and draw the operator's hands into the blade causing serious personal injury. Examples are chains, cables, round or oblong-shaped workpieces, workpieces with internal or built-in moving or rotations parts, etc.
- 9. Clearing Chips: Metal chips can easily cut skin—even through a piece of cloth. Avoid clearing chips by hand or with a rag. Use a brush or vacuum to clear metal chips.



#### **ELECTRICAL**

#### **AWARNING**

The machine must be properly set up before it is safe to operate. DO NOT connect this machine to the power source until instructed to do so in the "Test Run" portion of this manual.

## 110V/220V Operation

The Model M1013 is prewired for 110V operation. For 220V operation, the motor must be re-wired as directed by the wiring diagram on the inside of the motor junction box cover. If this diagram is not available, use the wiring diagram on Page 31.

The power supply circuit used for this machine MUST be grounded and rated for the amperage given below. Never replace a circuit breaker with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes.

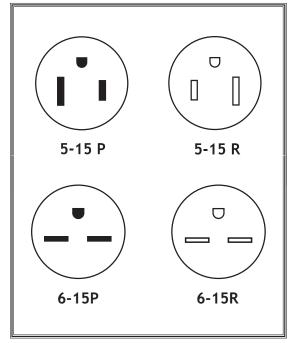
This machine must be grounded! The cord supplied with this machine comes with a grounding wire. If your outlet does not accommodate a ground pin, have it replaced by a qualified electrician.

If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, you may create a fire or circuit overload hazard—consult a qualified electrician to reduce this risk.

#### **Extension Cords**

We do not recommend using an extension cord; however, if you have no alternative, use the following guidelines:

- Use a cord rated for Standard Service (S).
- Do not use an extension cord longer than 50 feet.
- Ensure that the cord has a ground wire and pin.
- Use the gauge size listed below as a minimum.



**Figure 2.** NEMA 5-15 and 6-15 plugs and receptacles.



DO NOT work on your electrical system if you are unsure about electrical codes and wiring! Seek assistance from a qualified electrician. Ignoring this warning can cause electrocution, fire, or machine damage.

#### **Electrical Specifications**

Operating Voltage	Amp Draw	Min. Circuit Size	Recommended Plug	Extension Cord
110V Operation	7 Amps	15A	NEMA 5-15 (incl.)	14 Gauge
220V Operation	3.5 Amps	15A	NEMA 6-15 (not incl.)	16 Gauge



#### **SETUP**

#### Unpacking

This machine has been carefully packaged for safe transportation. If you notice the machine has been damaged during shipping, please contact your authorized Shop Fox dealer immediately.

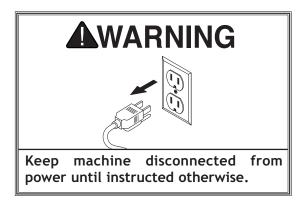
#### **Inventory**

The following is a description of the main components shipped with the Model M1013. Lay the components out to inventory them.

**Note:** If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for safer shipping.

Inv	entory (Figure 3)	Qty
A.	Base	1
В.	Front Panel	1
C.	Rear Panel	1
D.	Right Panel	1
	Left Panel	
F.	Chip Tray	1
	Feet	
Н.	Axle	1
l.	V-Belt	1

J.	Belt Cover	1
K.		
L.	Work Stop Shaft	1
Μ.	Wheels	
Ass	embly Hardware (Not Shown):	
$-H_0$	ex Wrench 4mm	1
	ex Bolt M8-1.25 x 30	
-Fl	at Washer 17mm (Wheels)	4
	at Washer 8mm	
-Cc	otter Pin 1/8" x 1" (Wheels)	2
	ex Nut M8-1.25 (Feet)	
	nillips Head Screw M6-1 x 12	
	at Washer 6mm	
$-H_0$	ex Bolt 1/4"-20 x 1/2"	2
	at Washer 1/4"	
		<b></b>



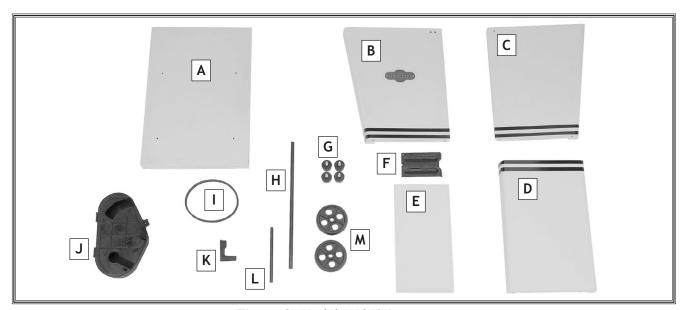
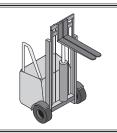


Figure 3. Model M1013 inventory.



#### **Machine Placement**

- Floor Load: This machine distributes a heavy load in a small footprint. Some residential floors may require additional bracing to support both machine and operator.
- Working Clearances: Consider existing and anticipated needs, size of material to be processed through the machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your Machine Type.
- **Lighting:** Lighting should be bright enough to eliminate shadow and prevent eye strain.
- Electrical: Electrical circuits must be dedicated or large enough to handle amperage requirements. Outlets must be located near each machine, so power or extension cords are clear of high-traffic areas. Follow local electrical codes for proper installation of new lighting, outlets, or circuits.



#### AWARNING

USE helpers or power lifting equipment to lift this Machine Name. Otherwise, serious personal injury may occur.



#### **A**CAUTION

MAKE your shop "child safe." Ensure that your workplace is inaccessible to children by closing and locking all entrances when you are away. NEVER allow untrained visitors in your shop when assembling, adjusting or operating equipment.

#### Cleaning Machine

The table and other unpainted parts of your metal cutting bandsaw are coated with a waxy grease that protects them from corrosion during shipment. Clean this grease off with a solvent cleaner or citrus-based degreaser. DO NOT use chlorine-based solvents such as brake parts cleaner or acetone—if you happen to splash some onto a painted surface, you will ruin the finish.



#### WARNING

NEVER clean with gasoline or other petroleum-based solvents. Most have low flash points, which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored!





### **A**CAUTION

ALWAYS work in well-ventilated areas far from possible ignition sources when using solvents to clean machinery. Many solvents are toxic when inhaled or ingested. Use care when disposing of waste rags and towels to be sure they DO NOT create fire or environmental hazards.



## Wheels, Feet, and Cabinet

This bandsaw is shipped with four rubber feet with posts and two wheels with an axle. It is your option to install four rubber feet if you do not need to move the bandsaw, or install the axle and wheels if you need to move the bandsaw regularly.

To install the wheels, feet, and the cabinet, do these steps:

- 1. At the end of the base with the axle holes, insert the axle into the base (see Figure 4).
- 2. Slide a 17mm flat washer and wheel onto each end of the axle, followed by another 17mm flat washer and cotter pin.
- 3. Thread a 3/8-16 hex nut on both rubber feet.
- 4. Thread rubber feet into the base (see Figure 4).
- **5.** Position the base on the floor, and adjust the feet until the base is level and stable.
- **6.** Tighten the hex nuts against the base to lock the feet in position.
- 7. Position the front and rear panels on the base and install the panels to the base with four M6-1 x 12 Phillips head screws and 6mm flat washers, as shown in Figure 5.
- 8. Position the left panel between the front and rear panels, and secure it in place with six M6-1 x 12 Phillips head screws and 6mm flat washers, as shown in Figure 6.



Figure 4. Installing wheels and feet.



Figure 5. Front and rear panels installed.



Figure 6. Left panel installed.



9. Position the right panel between the front and rear panel, and secure it in place with six M6-1 x 12 Phillips head screws and 6mm flat washers, as shown in Figure 7.



#### **AWARNING**

The Model M1013 is heavy! To avoid personal injury, get help to lift this machine.

- **10.** With the help of an assistant or a hoisting device, place the bandsaw onto the cabinet.
- 11. Secure the bandsaw to the cabinet with four M8-1.25 x 30 hex bolts and 8mm flat washers, as shown in Figure 8.



Figure 7. Installing right panel.



Figure 8. Installing bandsaw to cabinet.



## Shipping Strap Removal & Stop Adjustment

To ensure that your bandsaw arrives without damage to the hinge system, a shipping strap was installed. After removing the shipping strap, you will have to make a series of adjustments, beginning with the feed stop bolt.

To remove the shipping strap and adjust the feed stop bolt, do these steps:

1. Remove the shipping strap hex bolt and strap with a 12mm wrench, as shown in Figure 9.

**Note:** Keep this shipping strap in the event that you must transport or ship the bandsaw.

2. Adjust the feed stop bolt and jam nut with a 14mm wrench (Figure 10), so the bandsaw blade teeth are just below the table surface when the cut is complete.

#### Squaring Vise to Blade

To ensure that your bandsaw will make cuts that match the degree scale, you must make sure to square the vise to the blade.

To square the vise to the blade, do these steps:

- 1. Rotate the headstock until the pointer reads "0" on the tabletop scale, and tighten the headstock lock lever so the headstock stays indexed at zero.
- 2. Using a 6mm wrench, loosen the two cap screws that hold the vise to the table, as shown in Figure 11.
- **3.** Using a small machinists square, adjust the vise so it is square to the blade.
- **4.** Tighten the two cap screws, so the vise and blade are square with one another.

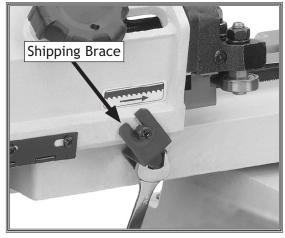


Figure 9. Removing shipping strap.

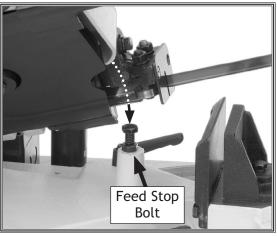
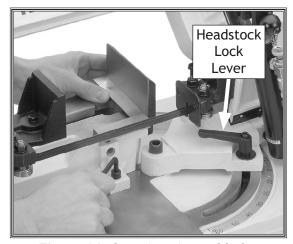


Figure 10. Feed stop bolt.



**Figure 11.** Squaring vise to blade, headstock, and table scale.



#### Chip Tray & Cast Iron Stop

The chip tray directs small workpieces into a bucket when the cut is complete. The cast iron stop allows you to repeat cuts at the same length.

To install the chip tray and cast iron stop, do these steps:

- 1. Position the chip tray, as shown in Figure 12.
- 2. Insert the stop rod approximately <sup>3</sup>/<sub>4</sub>" into the saw until the end of the rod is just flush with the inside casting surface, as shown in **Figure 13**.
- 3. Use a 4mm hex wrench to tighten the set screw shown in Figure 13.
- 4. Slide the cast iron stop onto the stop rod and tighten the set screw in the side of the stop, as shown in Figure 14.

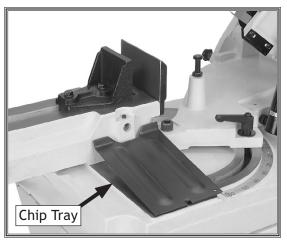


Figure 12. Chip tray installed.

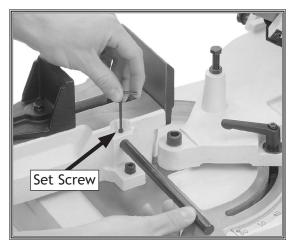


Figure 13. Installing stop rod.

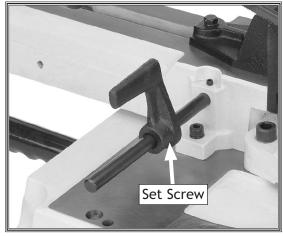


Figure 14. Cast iron stop installed.



#### Automatic OFF Adjustment

After you have removed the shipping strap and have adjusted the headstock stop bolt, you must adjust the OFF button lever stop bolt, so the bandsaw shuts OFF automatically when a cut is complete.

#### To set the adjust the OFF button, do these steps:

- 1. With the headstock in the complete down position, loosen the 12mm stop bolt and jam nut shown in Figure 15.
- 2. Push down on the OFF button lever so the button is completely depressed.
- 3. While keeping the lever depressed, use your fingertips to turn the stop bolt until the head just touches the lever.
- 4. Back off the stop bolt 1/3 turn and tighten the jam nut.

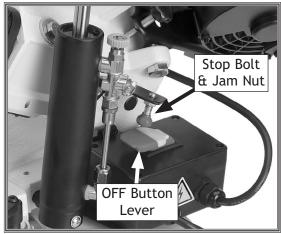
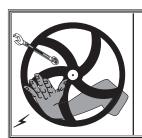


Figure 15. Automatic OFF components.



#### **Pulley Cover**

When opened, the pulley cover gives you access to change the pulley ratio so the bandsaw can cut at one of three speeds.



#### **AWARNING**

ENTANGLEMENT HAZARD!

MAKE SURE the bandsaw is unplugged before proceeding!

Otherwise, severe injury may occur.

#### To install the pulley cover, do these steps:

- 1. Position and rotate the pulley cover into place, as shown in Figure 16.
- 2. Install the two  $1/4-20 \times 1/2$ " hex bolts and washers to secure the pulley cover.
- Loosen the belt tension knob enough to install the belt on the appropriate pulley that will give the required blade speed. Refer to Blade Speed on Page 23 for blade speed selections.
- **4.** Adjust the belt tension knob (**Figure 17**), so the belt has approximately <sup>1</sup>/<sub>4</sub>" deflection when pressed in between the pulleys, then close and secure the cover.

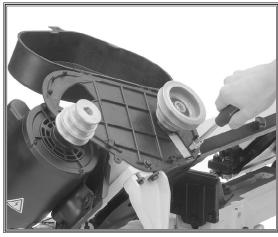


Figure 16. Positioning the pulley cover.

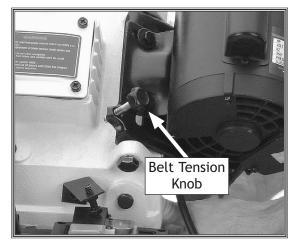


Figure 17. Belt tension knob.



#### **Blade Tension**

Proper blade tension is essential to long blade life, straight cuts, and efficient cutting.

Two major signs that you do not have proper blade tension are: 1) the blade stalls in the cut and slips on the wheels, and 2) the blade frequently breaks from being too tight.



#### **AWARNING**

Disconnect bandsaw from power BEFORE making and adjustments to the machine!

#### To set the blade tension, do these steps:

- Make sure the blade is tracking properly (refer to Blade Tracking on Page 29 for detailed instructions).
- 2. Remove the cylinder lock pin, raise the headstock to the full vertical position, and push the safety stop inward to lock the headstock in the vertical position (see Figure 18).
- 3. Open the blade cover, as shown in **Figure 19**, slide the blade guides as far apart as possible, then secure them in place
- **4.** Turn the blade tension knob until the blade is snug, and the blade tension scale indicates "medium" (see **Figure 20**).
- **5.** Adjust the blade guides as instructed in the next subsection
- 6. Close and secure the blade guard.

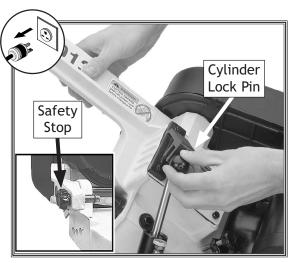


Figure 18. Raising and locking headstock.

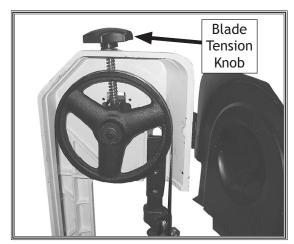


Figure 19. Blade tension adjustment knob.

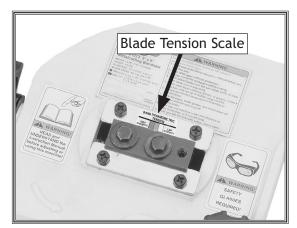


Figure 20. Typical blade tension scale.



#### **Blade Guides**

The blade guide side bearings support and twist the blade straight so the blade will enter the workpiece perpendicular to the table surface (see Figure 21). The blade guide support bearings prevent blade twist by stopping the blade from being pushed back during a cut. Both adjustments are critical for correct saw operation.

Note: Make sure the blade is tensioned and tracks correctly before you adjust the blade guide bearings. Refer to Blade Tension on the previous page and Blade Tracking on Page **29** for detailed instructions.

To adjust the guide bearings, do these steps:

- 1. DISCONNECT BANDSAW FROM POWER!
- 2. Let the bandsaw headstock park in the full down position.
- 3. Use a 12mm wrench to loosen the lower guide bearing adjustment hex bolt shown in Figure 22.
- 4. Adjust the blade guide housing so the support bearing rests against the rear of the blade, as illustrated in Figure 21.
- 5. Tighten the adjustment hex bolt.
- **6.** Use a 14mm wrench to loosen the outer side bearing eccentric jam nuts of the upper guide bearing.

Note: The inner side bearing are not on eccentric shafts and cannot be adjusted.

7. Use a 12mm wrench to rotate the side bearing eccentrics until the bearings hold the blade perpendicular to the table surface, and have a bearing-to-blade clearance of 0.000"—0.001". The bearings must not pinch the blade.

Note: To make sure the blade is perpendicular to the table, use a standard machinist's square.

8. Tighten the jam nuts, loosen the lock knob, and slide the blade guide close to the workpiece so the blade is supported and will not twist during the cut (see Figure 23).

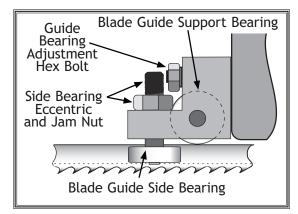


Figure 21. Blade guide adjustment locations.

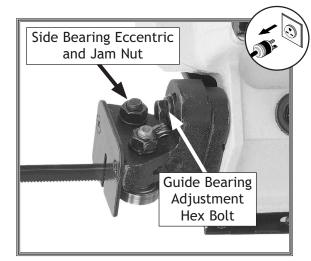


Figure 22. Blade guide adjustments.

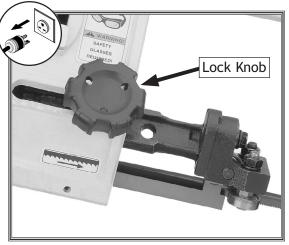


Figure 23. Blade guide position lock knob.



#### Test Run

Once the assembly is complete, test run your machine to make sure it runs properly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review the **Troubleshooting** on **Page 32**.

If you still cannot remedy a problem, contact our Tech Support at (360) 734-3482 for assistance.

#### To test run the machine, do these steps:

- 1. Make sure you understand the safety instructions at the beginning of the manual, and verify that the machine is setup properly.
- 2. Ensure all tools and objects used during set up are cleared away from the machine.
- **3.** Connect the machine to the power source.
- 4. Start the bandsaw while keeping your finger near the ON/OFF switch at all times during the test run. The bandsaw should run smoothly with little or no vibration.
  - Strange or unusual noises should be investigated and corrected before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.
- 5. Turn the machine *OFF*.





Projectiles thrown from the machine could cause serious eye injury. Wear safety glasses to reduce the risk of injury.





Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing rolled up and long hair tied up and away from machinery.



#### **OPERATIONS**

#### General

This machine will perform many types of operations that are beyond the scope of this manual. Many of these operations can be dangerous or deadly if performed incorrectly.

The instructions in this section are written with the understanding that the operator has the necessary knowledge and skills to operate this machine. If at any time you are experiencing difficulties performing any operation, stop using the machine!

If you are an inexperienced operator, we strongly recommend that you read books or trade articles, or seek training from an experienced *Machine Type* operator before performing any unfamiliar operations. **Above all, your safety should come first!** 

#### Operation

Before making cuts to the workpiece, it is important that all safety precautions and bandsaw adjustments are addressed.

For basic cutting operations, do these steps:

- 1. Select and install the required blade (refer to Blade Selection on Page 24).
- 2. Select the required cutting speed (refer to Blade Speed on Page 23).
- 3. Raise and lock the headstock, so the blade is approximately 3" from the workpiece, and open the vise to accept the workpiece.

Note: NEVER let the saw blade rest on the workpiece without the saw running. Otherwise, you will permanently damage the saw blade!

4. Insert the workpiece into the vise, so the blade will contact the flattest part of the workpiece first, and clamp the workpiece in the vise.



READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!



DO NOT investigate problems or adjust the machine while it is running. Wait until the machine is turned *OFF*, unplugged and all working parts have come to a complete stop before proceeding!





Always wear safety glasses when operating this machine. Failure to comply may result in serious personal injury.



- **5.** Adjust the cast iron stop for duplicate cuts and install the ejector chute if required.
- 6. Loosen the headstock lock lever (Figure 24), and swivel the headstock to the needed angle of cut, and lock the lever in place.
- 7. Set the blade guide so the guides hold the blade close to the workpiece, and the blade will not twist with a cutting load (refer to **Blade Guides** on **Page 19** for detailed instructions).
- **8.** Open the feed ON/OFF valve and turn the feed rate knob so the feed rate is correct, based on your observations of the blade chip characteristics. Refer to **Feed Rate** on **Page 25** for detailed instructions.

Note: When the cut is complete, the ON/OFF switch push lever will shut *OFF* the bandsaw.

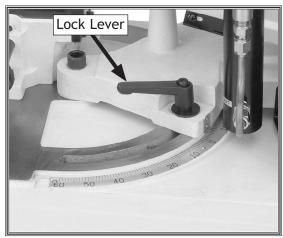


Figure 24. Headstock swivel system.



#### **Blade Speed**

The Model M1013 has these three blade speeds: 80, 120, and 200 FPM.

To change blade speeds, do these steps:

- 1. DISCONNECT BANDSAW FROM POWER!
- 2. Determine the best speed for your cut. The table in Figure 25 is provided as a basic guideline. Material thickness and the type of blade used will factor into FPM selection.
- 3. Slacken the V-belt (refer to the **Pulley Cover** subsection on **Page 17** for detailed instructions).
- **4.** Position the V-belt on the pulleys for the desired FPM (feet per minute), as illustrated in **Figure 25**.
- **5.** Correctly tension the V-belt, then close and secure the pulley cover before beginning operation.

**Note:** These suggested blade speeds are an average for both High Carbon Blades and Bimetal Blades. Refer to your saw blade manufacturer for exact speeds.

Workpiece Material	Speed in FPM
Tool Steel	90
Stainless Steel	90
Alloy Steel	90
Bearing Bronze	90
High Carbon Steel	135
Medium Carbon Steel	135,195
Hard Brass	195
Hard Bronze	195
Low Carbon Steel	195
Soft Brass	195
Copper	255
Aluminum	255
Plastics	255

Note: FPM = Feet Per Minute.

110tc. 11M 1 ccc 1 cl Milliate.			
Speed at 60Hz	Wheel Pulley	Motor Pulley	
80 FPM		2 2	
120 FPM	2 <	> < > <	
200 FPM		<u> </u>	

Figure 25. Blade cutting speed chart.



#### **Blade Selection**

The chart below is a basic starting point for choosing blade type based on teeth per inch (TPI) for variable tooth pitch blades and for standard raker type bimetal blades/HSS blades. However, for exact specifications of bandsaw blades, contact the blade manufacturer.

Here are some general rules of thumb with respect to bandsaw blade use.

- At least three teeth must contact the metal at any phase of the cut. Otherwise, the teeth can load up with metal, fracture, and break off. If the TPI is too high, the teeth can load up with material and overheat, damaging the blade.
- For a faster but rougher cut, use a blade with a lower TPI and a higher feed rate.
- For a slower but smoother cut, use a blade with more TPI and a lower feed rate.

To select the correct blade TPI, do these steps:

- Measure the material thickness. This
  measurement is the length of cut
  taken from where the tooth enters the
  workpiece, sweeps through, and exits the
  workpiece.
- 2. Refer to the "Material Thickness" row of the blade selection chart in Figure 26, and read across to find the workpiece thickness you need to cut.
- 3. Refer to the "Shape" of metal and "Material Type" columns, and find the shape and material to be cut.
- 4. In the applicable row, read across to the right and find the box where the row and column intersect. Listed in the box is the minimum TPI recommended for the variable tooth pitch blades, and the TPI for bimetal raker blades in parentheses.

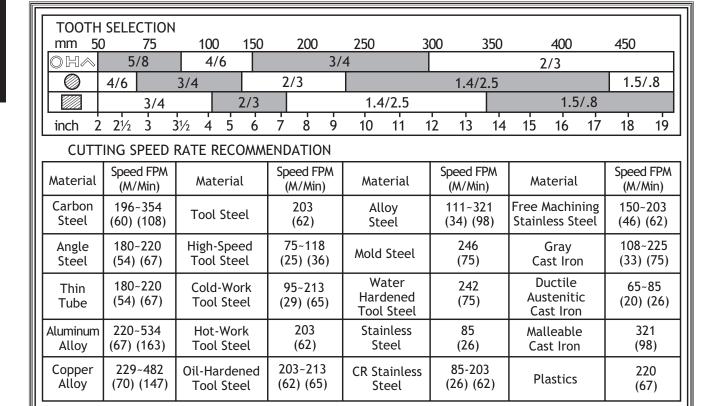


Figure 26. Blade selection chart.



#### Feed Rate

The speed at which the saw blade will cut through a workpiece is controlled by blade type and feed rate.

The feed rate is controlled by the valve lever and feed rate dial on the hydraulic cylinder shown in Figure 27.

Turning the valve lever in-line with the piping, as shown in the **Figure 28**, opens it up, which allows the fluid to circulate and allows the head to move. Turning the valve lever sideways or perpendicular to the piping closes it, which locks the headstock in place.

The feed rate dial controls the amount of fluid that circulates around the hydraulic cylinder, which in turn, controls the speed that it moves.

#### To set the feed rate, do these steps:

- 1. Raise the headstock and turn the valve lever sideways (horizontally).
- 2. Clamp the workpiece in the table vise.
- **3.** Move the headstock and blade a few inches above the workpiece.
- **4.** With the correct saw blade installed and blade speed selected, turn the saw ON.
- **5.** Slowly rotate the feed rate dial to a conservative feed rate until the saw begins to cut the workpiece.
- Observe the chips that exit the cut, and increase or decrease the feed rate according to the chip characteristics (see Figure 28).

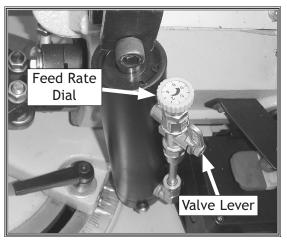


Figure 27. Feed rate dial and lever.

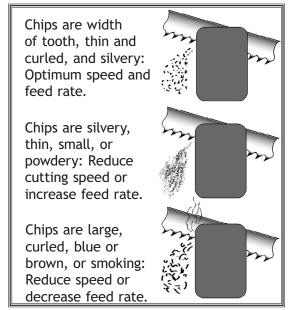


Figure 28. Reading chip characteristics.



#### **MAINTENANCE**

#### General

Regular periodic maintenance on your machine will ensure its optimum performance. Make a habit of inspecting your machine each time you use it.

Check for the following conditions and repair or replace when necessary:

- Loose mounting bolts.
- Missing or leaking rubber toggle switch boots.
- Worn or damaged cords, switches, or plugs.
- Damaged V-belt.
- Any other condition that could hamper the safe operation of this machine.

#### Cleaning

Keeping metal chips away from bandsaw mechanisms is important to ensure that your bandsaw lasts a long time. Use a shop vacuum or brush-off metal chips frequently.

#### Lubrication

The gearbox and all bearings are sealed and permanently lubricated and no scheduled lubrication is needed. However, you must periodically lubricate adjustment locations and bare metal surfaces. Refer to **Figures 29–30** for lubrication points.

Lubricate the following areas listed below:

- A. Blade Tension Mechanism: Open the main blade guard, and drop a few drops of oil on the tension knob lead screw.
- **B.** Blade and Guides: Drop a few drops of light machine oil on the blade and the blade guides daily.
- **C. Gear Box:** Is packed with grease and should only be changed if you suspect contamination.
- D. Table and Machined Surfaces: Keep bare metal surfaces rust-free with regular applications of products like SLIPIT<sup>®</sup>. For long term storage you may want to consider products like Boeshield T-9™.
- **E. Vise Lead Screw:** Drop a few drops of light machine oil on the vise lead screw weekly.



MAKE SURE that your machine is unplugged during all maintenance procedures! If this warning is ignored, serious personal injury may occur.

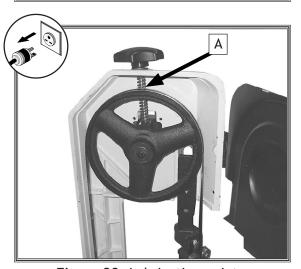


Figure 29. Lubrication points.

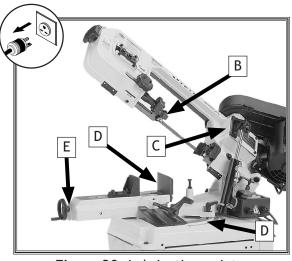


Figure 30. Lubrication points.



#### **SERVICE**

#### **General**

This section covers the most common service adjustments or procedures that may need to be made during the life of your machine.

If you require additional machine service not included in this section, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: tech-support@shopfox.biz.

#### Blade Change

Change the blade when it becomes dull, damaged, or when you are using materials that require a blade of a certain type or tooth count.

To change the bandsaw blade, do these steps:

- 1. DISCONNECT BANDSAW FROM POWER!
- 2. Hold the headstock, un-attach the feed cylinder by removing the cap screw, then raise the headstock to the full vertical position (see Figure 31).
- 3. Push the safety stop in, use a screwdriver to remove the upper and lower blade guide guards, and loosen the blade guides (see Figure 32).



MAKE SURE that your machine is unplugged during all service procedures! If this warning is ignored, serious personal injury may occur.

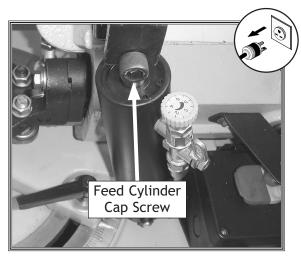
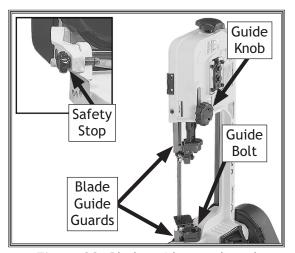


Figure 31. Feed cylinder cap screw.



**Figure 32.** Blade guide guards and fasteners.



- **4.** Loosen the tension knob and slip the blade off of the wheels.
- 5. Install the new blade through both blade guide bearings and around the bottom wheel (see the example in Figure 33).
- 6. Hold the blade around the bottom wheel with one hand and slip it around the top wheel with the other hand, keeping the blade between the blade guide bearings.

Note: It is sometimes possible to flip the blade inside out, in which case the blade will be installed in the wrong direction. Check to make sure the blade teeth are facing toward the workpiece after mounting on the bandsaw. Some blades will have a directional arrow as a guide.

- 7. When the blade is around both wheels, adjust the position so the back of the blade is against the shoulder of the wheels.
- **8.** Tighten the tension knob as tight as necessary so the blade will not slip on the wheels during start up.
- **9.** Spin the wheel by hand until the blade resumes the previous tracking.
  - —If the tracking needs to be adjusted, complete the instructions in the Blade Tracking procedure in the next section.
- **10.** Properly adjust the blade tension (**Page 18**) and the guide bearings (**Page 19**).

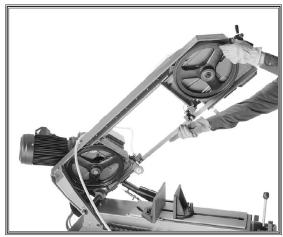


Figure 33. Typical blade installation.



#### **Blade Tracking**

The blade tracking has been properly set at the factory. The tracking will rarely need to be adjusted if the bandsaw is used properly.

To adjust the blade tracking on the bandsaw, do these steps:

- 1. DISCONNECT BANDSAW FROM POWER!
- 2. Raise the headstock and lock it in place by pushing in the safety stop knob.
- 3. Remove both blade guide assemblies.
- 4. Open the wheel access cover.
- 5. Loosen, but do not remove the lower cap screw in the blade wheel tilting mechanism (Figure 34).
- **6.** Adjust the tracking set screw with a 4mm hex wrench, as shown in **Figure 34**, then tighten the cap screw loosened in **Step 5**.
  - -Tightening the set screw will move the blade closer to the shoulder of the wheel.
  - Loosening the set screw will move the blade away from the shoulder.
- 7. Tension the blade.
- **8.** Spin the wheel by hand and observe how the blade tracks on the wheel.
  - —If the blade tracks along the shoulder of the wheel (without rubbing), the blade is tracking properly and this adjustment is completed.
  - -If the blade drifts away from the shoulder of the wheel or hits the shoulder, repeat **Steps 5-8**.
- 9. Replace the blade guard and blade guide assemblies.
- **10.** Adjust the blade guides as needed. Refer to **Blade Guides** on **Page 19**.

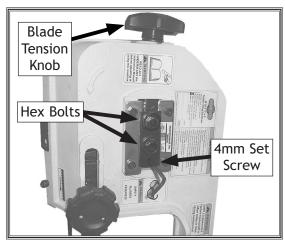


Figure 34. Tracking adjustment controls.



## **Electrical Safety Instructions**

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Study this diagram carefully. If you notice differences between your machine and these wiring diagrams, call Woodstock International Technical Support at (360) 734-3482.

#### **AWARNING**

- SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!
- 2. QUALIFIED ELECTRICIAN. Due to the inherent hazards of electricity, only a qualified electrician should perform wiring tasks on this machine. If you are not a qualified electrician, get help from one before attempting any kind of wiring job.
- 3. WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.
- 4. WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components before completing the task.

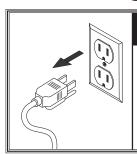
- 5. MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.
- 6. MODIFICATIONS. Using aftermarket parts or modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire.
- 7. CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to five minutes after being disconnected from the power source. To avoid being shocked, wait at least this long before working on these components.
- **8. ELECTRICAL REQUIREMENTS.** You MUST follow the electrical requirements at the beginning of this manual when connecting your machine to a power source.
- EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (360) 734-3482.

#### WIRING DIAGRAM COLOR KEY NOTICE BLACK = YELLOW : The photos and diagrams included in this section are **BLUE** best viewed in color. You WHITE GREEN **GRAY** PURPLE can view these pages in TUR-QŬÒISE color at www.shopfox.biz. **RED** ORANGE = **PINK**



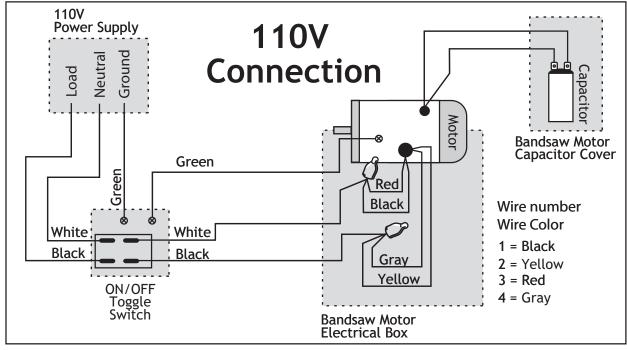
## Wiring Diagram

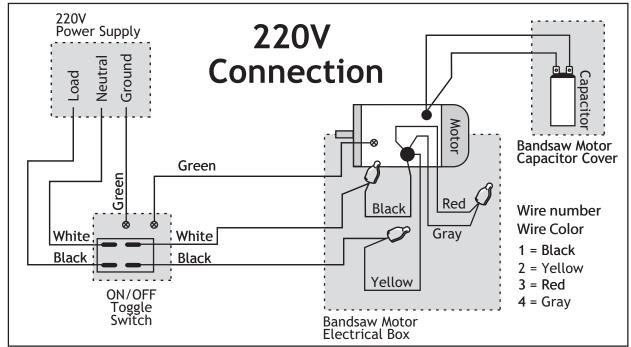




#### **▲**DANGER

Disconnect power from machine before performing any electrical service. Failure to do this will result in a shock hazard leading to injury or death.







## **Troubleshooting**

This section covers the most common problems and corrections with this type of machine. WARNING! DO NOT make any adjustments until power is disconnected and moving parts have come to a complete stop!



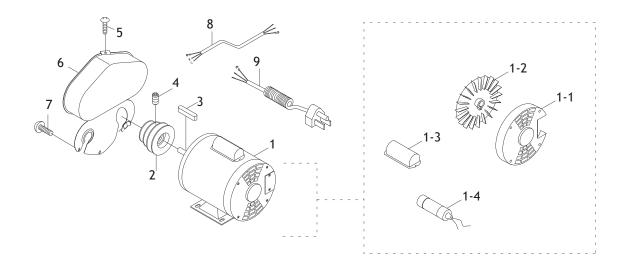
PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Machine does not start or a	1. Plug/receptacle is at fault or wired	Test for good contacts; correct the wiring.
breaker trips.	incorrectly.	
	2. Start capacitor is at fault.	2. Test/replace if faulty.
	3. Wall fuse/circuit breaker is blown/	3. Ensure correct size for machine load; replace weak
	tripped.	breaker.
	4. Motor connection wired incorrect-	4. Correct motor wiring connections.
	ly.	
	5. Power supply is at fault/switched	5. Ensure hot lines have correct voltage on all legs and
	OFF.	main power supply is switched ON.
		6. Replace faulty ON/OFF switch.
	6. Motor ON/OFF switch is at fault.	7. Check for broken wires or disconnected/corroded
	7. Wiring is open/has high resistance.	connections, and repair/replace as necessary.
	8. Motor is at fault.	8. Test/repair/replace.
Machine stalls or is under-	1. Wrong blade for the workpiece	1. Use blade with correct properties for your type of
powered.	material.	cutting.
	2. Wrong workpiece material.	2. Use metal with correct properties for your type of
		cutting.
	3. Feed rate/cutting speed too fast	3. Decrease feed rate/cutting speed.
	for task.	
	4. Blade is slipping on wheels.	4. Adjust blade tracking and tension.
	5. Low power supply voltage.	5. Ensure hot lines have correct voltage on all legs.
	6. Motor bearings are at fault.	6. Test by rotating shaft; rotational grinding/loose
	7 8 /	shaft requires bearing replacement.
	7. Plug/receptacle is at fault.	7. Test for good contacts; correct the wiring.
	8. Motor connection is wired incor-	8. Correct motor wiring connections.
	rectly.  9. Motor has overheated.	O Class off mater let seel and reduce workland
	10. Motor is at fault.	9. Clean off motor, let cool, and reduce workload.
Market Control of the Control		10. Test/repair/replace.
Machine has vibration or noisy operation.	1. Motor fan is rubbing on fan cover.	1. Replace dented fan cover; replace loose/damaged
noisy operation.	2. Plade is at fault	fan.
	2. Blade is at fault.	2. Replace/resharpen blade.
	<ul><li>3. Gearbox is at fault.</li><li>4. Wrong blade &amp; too slow of speed.</li></ul>	<ul><li>3. Rebuild gearbox for bad gear(s)/bearing(s).</li><li>4. Change blade and or speed.</li></ul>
Machine is loud where sub-		·
Machine is loud when cut- ting or bogs down in the	1. Excessive feed rate.	1. Refer to Feed Rate on Page 25, or Blade Speed on
cut.	2. The blade TDI is too great or the	Page 23, and adjust as required.
	_	2. Refer to Blade Selection on Page 24 and adjust as
	material is too coarse.	required.

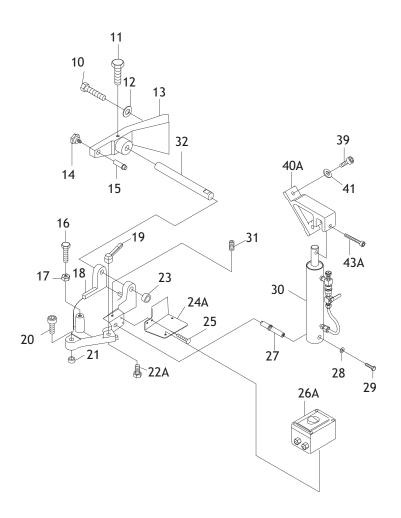


PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Blades break often.	1. Blade is not tensioned correctly.	1. Check to see that blade is not excessively tight or
	2. The workpiece is loose in the vise.	<ul><li>too loose.</li><li>Clamp the workpiece tighter, or use a jig to hold the</li></ul>
		workpiece.
	3. The feed or cut speed is wrong.	3. Refer to Feed Rate on Page 25, or Blade Speed on Page 23, and adjust as required.
	4. The blade TPI is too great, or the	
	material is too coarse.	required.
	5. The blade is rubbing on the wheel	
	flange.  6. The bandsaw is being started	required. 6. Start bandsaw and then slowly lower the headstock
	with the blade resting on the workpiece.	
	7. The guide bearings are misaligned,	7. Refer to Blade Tracking on Page 29, or Blade Guides
	or the blade is rubbing on the wheel flange.	on Page 19 and adjust as required.
	8. The blade is too thick, or the blades are of low quality.	8. Use a higher quality blade.
Blade dulls prematurely.	1. The cutting speed is too fast.	Refer to Blade Speed on Page 23, and adjust as required.
	2. The blade TPI is too coarse.	2. Refer to <b>Blade Selection</b> on <b>Page 24</b> , and adjust as required.
	3. The blade feed pressure is too light.	3. Refer to <b>Feed Rate</b> on <b>Page 25</b> , and adjust as required.
	4. The workpiece has hard spots, welds, or scale is on the material.	4. Increase the feed pressure, and reduce the cutting speed.
	5. The blade is twisted.	5. Replace the blade.
	6. The blade is slipping on the wheels.	6. Refer to <b>Blade Tension</b> on <b>Page 18</b> , and adjust as required.
Blade wears on one side.	1. The blade guides are worn or mis-	1. Refer to Blade Guides on Page 19 and replace or
	adjusted.	adjust.
	2. The blade guide slide bracket is loose.	2. Figuren the plade guide bracket.
	3. The wheels are out of alignment.	3. Refer to <b>Blade Tracking</b> on <b>Page 29</b> , and adjust as required.
Teeth are ripping from the	1. The feed pressure is too heavy and	
blade.	the blade speed is too slow; or	the feed pressure. Refer to Feed Rate on Page 25,
	the blade TPI is too coarse for the	and adjust as required.
	workpiece.  2. The workpiece is vibrating in the	2. Re-clamp the workpiece in the vise, and use a jig if
	vise.	required.
	3. The blade gullets are loading up with chips.	3. Use a coarser-tooth blade.



# PARTS Motor & Feed Rate Control







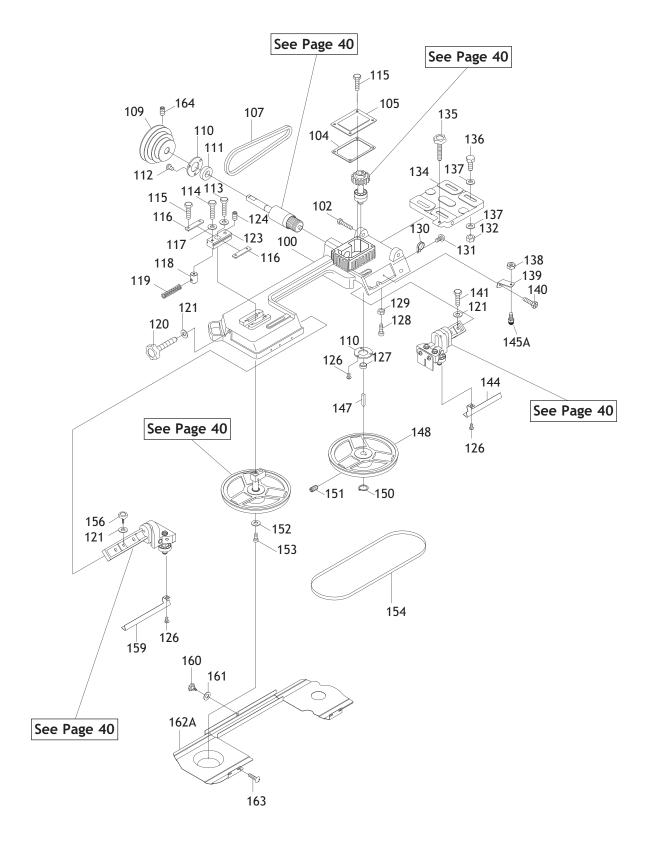
## Motor & Feed Rate Control Parts List

REF	PART #	DESCRIPTION
1	XM1013001	MOTOR 1/2HP 110/220V 1PH
1-1	XM1013001-1	MOTOR FAN COVER
1-2	XM1013001-2	MOTOR FAN
1-3	XM1013001-3	CAPACITOR COVER
1-4	XM1013001-4	S CAPACITOR 200M 125V
2	XM1013002	MOTOR PULLEY
3	XPK12M	KEY 5 X 5 X 30
4	XPSS17	SET SCREW 5/16-18 X 5/16
5	XPHTEK11	TAP SCREW 1/4 X 5/16(3/4)
6	XM1013006	BELT COVER
7	XPS04	PHLP HD SCR 1/4-20 X 1/2
8	XM1013008	MOTOR CABLE
9	XM1013009	POWER CABLE
10	XPB03	HEX BOLT 5/16-18 X 1
11	XPB07	HEX BOLT 5/16-18 x 3/4
12	XPW07	FLAT WASHER 5/16
13	XM1013013	PIVOT
14	XM1013014	KNOB BOLT 1/4-20 X 5/8
15	XM1013015	SPECIAL PIN 10 X 38.5 MM
16	XPB58	HEX BOLT 3/8-16 X 2

REF	PART #	DESCRIPTION
17	XPN08	HEX NUT 3/8-16
18	XM1013018	BRACKET
19	XM1013019	HANDLE
20	XPCAP97	CAP SCREW 1/2-12 X 2-1/2
21	XPN13	HEX NUT 1/2-13
22A	XM1013022A	SPECIAL BOLT 3/8"-16 X 1 3/4"
23	XM1013023	BUSHING 19 X 17 X 7
24A	XM1013024A	SWITCH BASE V2.10.06
25	XPS06	PHLP HD SCR 10-24 X 3/8
26A	XM1013026A	SWITCH BOX V2.08.06
27	XM1013027	SUPPORT ROD
28	XPW03	FLAT WASHER #10
29	XPS06	PHLP HD SCR 10-24 X 3/8
30	XM1013030	CYLINDER ASSEMBLY
31	XPSS04	SET SCREW 1/4-20 X 5/16
32	XM1013032	PIVOTING ROD
39	XPCAP05	CAP SCREW 1/4-20 X 3/4
40A	XM1013040A	CYLINDER UPPER SUPPORT V2.10.06
41	XPLW01	LOCK WASHER 5/16
43A	XM1013043A	SPECIAL CAP SCREW V2.10.06



# Saw Assembly





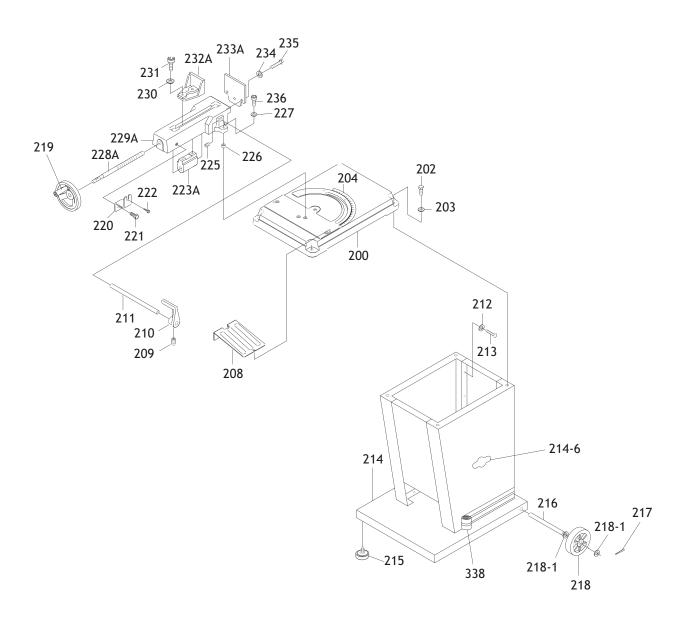
# Saw Assembly Parts List

REF	PART #	DESCRIPTION
100	XM1013100	BODY FRAME
102	XPB41	HEX BOLT 1/2-12 X 1-1/2
104	XM1013104	GEAR BOX GASKET
105	XM1013105	PLATE
107	XPVA23	V-BELT A-23
109	XM1013109	PULLEY
110	XM1013110	BEARING COVER
111	XM1013111	OIL SEAL
112	XPS24	PHLP HD SCR 8-32 X 3/8
113	XPB03	HEX BOLT 5/16-18 X 1
114	XPB07	HEX BOLT 5/16-18 x 3/4
115	XPB02	HEX BOLT 1/4-20 X 5/8
116	XM1013116	BLADE TENSION SLIDING GUIDE
117	XPW07	FLAT WASHER 5/16
118	XM1013118	SHAFT BLOCK
119	XM1013119	COMPRESSION SPRING
120	XM1013120	BLADE TENSION KNOB
121	XPW02	FLAT WASHER 3/8
123	XM1013123	BLADE TENSION SLIDING PLATE
124	XPSS38	SET SCREW 5/16-18 X 5/8
126	XPS08M	PHLP HD SCR M58 X 12
127	XM1013127	BUSHING
128	XPCAP05	CAP SCREW 1/4-20 X 3/4
129	XPN05	HEX NUT 1/4-20
130	XM1013130	WIRE CLAMP
131	XPS06	PHLP HD SCR 10-24 X 3/8

REF	PART #	DESCRIPTION
132	XPN02	HEX NUT 5/16-18
134	XM1013134	MOTOR MOUNT PLATE
135	XM1013135	KNOB BOLT 5/16-18 X 1-3/4
136	XPB07	HEX BOLT 5/16-18 x 3/4
137	XPW07	FLAT WASHER 5/16
138	XPN08	HEX NUT 3/8-16
139	XM1013139	SWITCH CUT OFF TIP
140	XPCAP04	CAP SCREW 1/4-20 X 1/2
141	XPB24	HEX BOLT 3/8-16 X 1-1/4
144	XM1013144	RIGHT SAFETY GUARD (OPTION)
145A	XM1013145A	STOP BOLT 3/8-16 X 1 V2.10.06
147	XPK23M	KEY 5 X 5 X 25
148	XM1013148	FRONT BLADE WHEEL
150	XPR05M	EXT RETAINING RING 15MM
151	XPSS17	SET SCREW 5/16-18 X 5/16
152	XPW07	FLAT WASHER 5/16
153	XPB07	HEX BOLT 5/16-18 x 3/4
154	XM1013154	BLADE 1/2" X 0.025" X 64-1/2"
156	XM1013156	KNOB BOLT 3/8-16 X 1-1/4
159	XM1013159	LEFT SAFETY GUARD
160	XM1013160	KNOB BOLT 1/4"-20 X 5/8"
161	XPW06	FLAT WASHER 1/4
162A	XM1013162A	PLASTIC SAFETY COVER V2.08.06
163	XPS06	PHLP HD SCR 10-24 X 3/8
164	XPSS17M	SET SCREW M8-1.25 X 6



# **Stand Assembly**





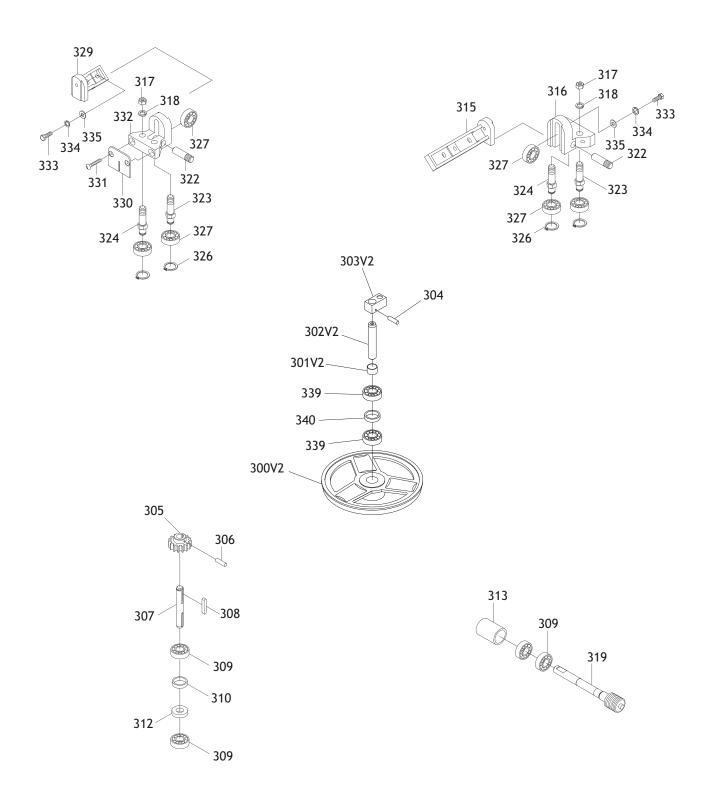
# **Stand Assembly Parts List**

REF	PART #	DESCRIPTION
200	XM1013200	BASE
202	XPB26M	HEX BOLT M8-1.25 X 30
203	XPLW04M	LOCK WASHER 8MM
204	XM1013204	SCALE
208	XM1013208	EJECTOR PLATE
209	XPSS17	SET SCREW 5/16-18 X 5/16
210	XM1013210	DISTANCE SET BRACKET
211	XM1013211	STOCK STOP ROD 1/2"
212	XPW03M	FLAT WASHER 6MM
213	XPS14M	PHLP HD SCR M6-1 X 12
214	XM1013214	DELUXE STAND ASSEMBLY
214-6	XM1013214-6	SHOP FOX LOGO 2-5/16" X 5"
215	XM1013215	RUBBER FOOT
216	XM1013216	WHEEL ROD
217	XM1013217	COTTER PIN 1/8 X 1
218	XM1013218	WHEEL
218-1	XPW27MM	FLAT WASHER 17MM
219	XM1013219	HANDWHEEL ASSEMBLY

REF	PART #	DESCRIPTION
220	XM1013220	PLATE
221	XPCAP30	CAP SCREW 5/16-18 X 1/2
222	XPS04	PHLP HD SCR 1/4-20 X 1/2
223A	XM1013223A	BRACKET W/NUT V2.01.08
225	XPSS03	SET SCREW 1/4-20 X 3/8
226	XM1013226	BUSHING
227	XPLW01	LOCK WASHER 5/16
228A	XM1013228A	ACME SCREW V2.01.08
229A	XM1013229A	VISE BASE V2.01.08
230	XPW07	FLAT WASHER 5/16
231	XPCAP69	CAP SCREW 5/16-18 X 1/4
232A	XM1013232A	VICE HALF V2.01.08
233A	XM1013233A	WALL PLATE V2.01.08
234	XPW07	FLAT WASHER 5/16
235	XPB07	HEX BOLT 5/16-18 x 3/4
236	XPCAP08	CAP SCREW 5/16-18 X 1-1/2
338	XM1013338	STRIPE FOR STAND 6" X 4'



## **Guides & Shafts**





## **Guides & Shafts Parts List**

REF	PART #	DESCRIPTION
300V2	XM1013300V2	REAR BLADE WHEEL V2.06.09
301V2	XM1013301V2	BUSHING V2.06.09
302V2	XM1013302V2	BLADE WHEEL SHAFT V2.06.09
303V2	XM1013303V2	AXLE BLOCK V2.06.09
304	XPRP39M	ROLL PIN 4 X 20
305	XM1013305	WORM GEAR
306	XPRP20M	ROLL PIN 4 X 22
307	XM1013307	TRANSMISSION WHEEL SHAFT
308	XPK23M	KEY 5 X 5 X 25
309	XP6202-OPEN	BALL BEARING 6202 OPEN
310	XM1013310	BUSHING
312	XM1013312	SEAL
313	XM1013313	BUSHING
315	XM1013315	LEFT ADJUSTABLE BRACKET
316	XM1013316	FRONT GUIDE CASTING
317	XPN08	HEX NUT 3/8-16

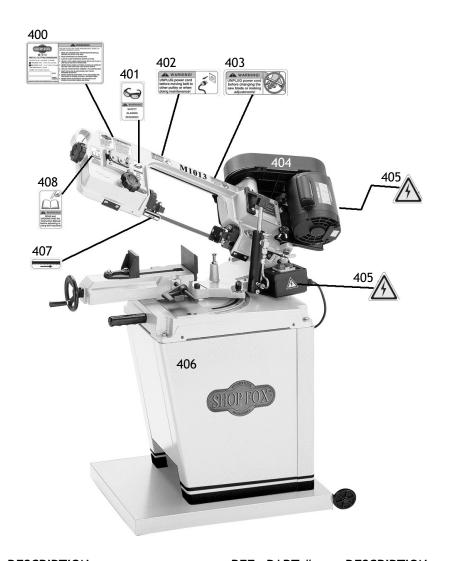
REF	PART #	DESCRIPTION
318	XPLW04	LOCK WASHER 3/8
319	XM1013319	WORM GEAR SHAFT
322	XM1013322	SPECIAL PIN 10 X 40MM
323	XM1013323	GUIDE ECCENTRIC
324	XM1013324	GUIDE SHAFT
326	XPR01M	EXT RETAINING RING 10MM
327	XP6000-OPEN	BALL BEARING 6000 OPEN
329	XM1013329	RIGHT ADJUSTABLE BRACKET
330	XM1013330	STOP PLATE
331	XPFH03	FLAT HD SCR 1/4-20 X 1/2
332	XM1013332	REAR GUIDE CASTING
333	XPB03	HEX BOLT 5/16-18 X 1
334	XPLW01	LOCK WASHER 5/16
335	XPW07	FLAT WASHER 5/16
339	XP6202ZZ	BALL BEARING 6202 ZZ
340	XM1013340	BUSHING



### **Machine Labels**

### **AWARNING**

Safety labels warn about machine hazards and how to prevent machine damage or injury. The owner of this machine MUST maintain the original location and readability of all labels on this machine. If any label is removed or becomes unreadable, REPLACE that label before allowing the machine to enter service again. Contact Woodstock International, Inc. at (360) 734-3482 or www. shopfoxtools.com to order new labels.



REF	PART #	DESCRIPTION
400	XM1013400	MACHINE ID LABEL
401	XM1013401	SAFETY GLASSES LABEL
402	XM1013402	DISCONNECT POWER LABEL
403	XM1013403	AMPUTATION HAZARD LABEL
404	XPPAINT-7	SHOPFOX BLACK TOUCH-UP PAINT

	REF	PART #	DESCRIPTION
405 XPLABLE-14B ELECTRICITY LABEL		ELECTRICITY LABEL	
		XPPAINT-1	SHOPFOX WHITE TOUCH-UP PAINT
	407	XM1013123-1	BLADE TENSION LABEL
	408	XPLABEL-12A	READ MANUAL LABEL



# Warranty Registration

Nar	me		
	eet		
			Zip
			Invoice #
Mod	del #Serial #	Dealer Name	Purchase Date
		n on a voluntary basis. It will be ces. <b>Of course, all informatio</b> r	e used for marketing purposes to help us no is strictly confidential.
1.	How did you learn about u Advertisement Mail Order Catalog	Friend	Local Store Other:
2.		woodworker/metalworker?2-8 Years	8-20 Years20+ Years
3.	How many of your machine		6-910+
4.	Do you think your machine	represents a good value?	Yes No
5.	Would you recommend Sho	p Fox products to a friend?	Yes No
6.	What is your age group? 20-29 50-59	30-39 60-69	40-49 70+
7.	What is your annual house \$20,000-\$29,000 \$50,000-\$59,000		\$40,000-\$49,000 \$70,000+
8.	Which of the following ma	gazines do you subscribe to?	
	Cabinet Maker Family Handyman Hand Loader Handy Home Shop Machinist Journal of Light Cont. Live Steam Model Airplane News Modeltec Old House Journal	Popular Mechanic Popular Science Popular Woodwor Practical Homeow Precision Shooter Projects in Metal RC Modeler Rifle Shop Notes Shotgun News	Wood king Wooden Boat wner Woodshop News
9.	Comments:		
_			

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	SHOP FOX		
	WOODSTOCK INTERNATIONAL INC. P.O. BOX 2309 BELLINGHAM, WA 98227-2309		
	Haladadadalalalalalala		l

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### WARRANTY

Woodstock International, Inc. warrants all Shop Fox machinery to be free of defects from workmanship and materials for a period of two years from the date of original purchase by the original owner. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, lack of maintenance, or reimbursement of third party expenses incurred.

Woodstock International, Inc. will repair or replace, at its expense and at its option, the Shop Fox machine or machine part, which in normal use has proven to be defective, provided that the original owner returns the product prepaid to a Shop Fox factory service center with proof of their purchase of the product within two years, and provides Woodstock International, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Woodstock International Inc.'s warranty, then the original owner must bear the cost of storing and returning the product.

This is Woodstock International, Inc.'s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that Shop Fox machinery complies with the provisions of any law or acts. In no event shall Woodstock International, Inc.'s liability under this warranty exceed the purchase price paid for the product, and any legal actions brought against Woodstock International, Inc. shall be tried in the State of Washington, County of Whatcom. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

Every effort has been made to ensure that all Shop Fox machinery meets high quality and durability standards. We reserve the right to change specifications at any time because of our commitment to continuously improve the quality of our products.



### High Quality Machines and Tools

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