

Operating Instructions and Parts Manual 7-inch Horizontal-Vertical Band Saw Model HVBS-7MW



WALTER MEIER (Manufacturing) Inc.

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1.0 Warranty and Service

Walter Meier (Manufacturing) Inc., warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these Walter Meier Authorized Service Centers can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET® tools. For the name of an Authorized Service Center in your area call 1-800-274-6848.

MORE INFORMATION

Walter Meier is consistently adding new products to the line. For complete, up-to-date product information, check with your local Walter Meier distributor, or visit waltermeier.com.

WARRANTY

JET products carry a limited warranty which varies in duration based upon the product (MW = Metalworking, WW = Woodworking).



WHAT IS COVERED?

This warranty covers any defects in workmanship or materials subject to the exceptions stated below. Cutting tools, abrasives and other consumables are excluded from warranty coverage.

WHO IS COVERED?

This warranty covers only the initial purchaser of the product.

WHAT IS THE PERIOD OF COVERAGE?

The general JET warranty lasts for the time period specified in the product literature of each product.

WHAT IS NOT COVERED?

Five Year Warranties do not cover woodworking (WW) products used for commercial, industrial or educational purposes. Woodworking products with Five Year Warranties that are used for commercial, industrial or education purposes revert to a One Year Warranty. This warranty does not cover defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair or alterations, or lack of maintenance.

HOW TO GET SERVICE

The product or part must be returned for examination, postage prepaid, to a location designated by us. For the name of the location nearest you, please call 1-800-274-6848.

You must provide proof of initial purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will repair or replace the product, or refund the purchase price, at our option. We will return the repaired product or replacement at our expense unless it is determined by us that there is no defect, or that the defect resulted from causes not within the scope of our warranty in which case we will, at your direction, dispose of or return the product. In the event you choose to have the product returned, you will be responsible for the shipping and handling costs of the return.

HOW STATE LAW APPLIES

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

LIMITATIONS ON THIS WARRANTY

WALTER MEIER (MANUFACTURING) INC., LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

WALTER MEIER 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. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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3.0 Safety warnings

- Read and understand the entire owner's manual before attempting assembly or operation.
- Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- 3. Replace the warning labels if they become obscured or removed.
- 4. This band saw is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a band saw, do not use until proper training and knowledge have been obtained.
- Do not use this machine for other than its intended use. If used for other purposes, Walter Meier (Manufacturing) Inc., disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
- 6. Always wear approved safety glasses/face shields while using this table saw. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- Before operating this band saw, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Nonslip footwear or anti-skid floor strips are recommended.
- 8. Wear ear protectors (plugs or muffs) during extended periods of operation.
- Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paint.
 - Crystalline silica from bricks, cement and other masonry products.
 - Arsenic and chromium from chemically treated lumber.

Your risk of exposure 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 face or dust masks that are specifically designed to filter out microscopic particles.
- Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
- 11. Make certain the switch is in the OFF position before connecting the machine to the power supply.
- 12. Make certain the machine is properly grounded.
- 13. Make all machine adjustments or maintenance with the machine unplugged from the power source.
- 14. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
- 15. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after completion of maintenance.
- 16. Never hold the material with saw in horizontal position. Always use vise and clamp it securely.
- 17. Keep hands and fingers away from blade at all times during operation.
- 18. Provide adequate support for long and heavy material.
- 19. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 20. Provide for adequate space surrounding work area and non-glare, overhead lighting.
- 21. Keep the floor around the machine clean and free of scrap material, oil and grease.
- 22. Keep visitors a safe distance from the work area. Keep children away.

- 23. Make your workshop child proof with padlocks, master switches or by removing starter keys.
- 24. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 25. Maintain a balanced stance at all times so that you do not fall into the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- 26. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
- 27. Use recommended accessories; improper accessories may be hazardous.
- 28. Maintain tools with care. Keep saw blades sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
- Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris — do not use your hands.

- 30. Do not stand on the machine. Serious injury could occur if the machine tips over.
- 31. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
- 32. Remove loose items and unnecessary work pieces from the area before starting the machine.
- Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 34. Don't use in dangerous environment. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lighted.
- 35. Familiarize yourself with the following safety notices used in this manual:

This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

This means that if precautions are not heeded, it may result in serious injury or possibly even death.

4.0 About this manual

This manual is provided by Walter Meier (Manufacturing) Inc. covering the safe operation and maintenance procedures for a JET Model HVBS-7MW Band Saw. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide years of trouble-free operation if used in accordance with the instructions as set forth in this document.

If there are questions or comments, please contact your local supplier or Walter Meier. Walter Meier can also be reached at our web site: www.waltermeier.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

AWARNINGRead and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

5.0 Specifications

Model number	HBS-7MW
Round at 45°	4-1/2" (144mm)
	2"H x 12"W (51x305mm); 7"H x 10-7/8"W (178 x 276mm)
	7"H x 3-1/2"W (178 x 89mm); 5-1/2"H x 4-1/2"W (140 x 114mm)
Throat depth	7" (178mm)
Vertical worktable	
Bed height from floor	
	45°
	86, 132, 178, 260 sfpm
Motor (UL listed)	TEFC, 3/4HP, 1PH, 115/230V (prewired 115V), 60Hz
	49-1/2" L x 20-1/2" W x 41" H (1257 x 521 x 1041.5mm)
	286 lb (130 kg)
Shipping weight (approximate)	

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, Walter Meier (Manufacturing) Inc., reserves the right to change specifications at any time and without prior notice, without incurring obligations.

6.0 Setup and assembly

6.1 Shipping contents

- 1 Band saw
- 2 Wheel axles
- 4 Wheels
- 4 Split pins
- 2 Strain clamps
- 1 Material stop bar
- 1 Material stop
- 1 Belt cover
- 1 Vertical cutting plate

Tools required for assembly:

#2 cross point screwdriver Pliers

6.2 Unpacking and clean-up

- 1. Finish uncrating the saw. Inspect it for shipping damage. If any damage has occurred, contact your distributor.
- 2. Unbolt the saw from the skid and place it on a level surface.
- Clean rust protected surfaces with kerosene, diesel oil, or a mild solvent. Do not use cellulose based solvents such as paint thinner or lacquer thinner. These will damage painted surfaces.

6.3 Assembly

- Place blocking under the ends of the saw base to allow wheel installation. Caution: Make sure saw is steady while temporarily supported.
- 2. Slide wheel axles through the holes in the base.
- 3. Slide the wheels onto the axles and fasten with pins. Bend the pins to hold in place.
- Slide material stop bar (A, Figure 1) into the base and secure by tightening bolt (B, Figure 1). Slide material stop (C, Figure 1) onto the bar and tighten bolt (D, Figure 1).
- Slide belt cover over pulley assemblies and fasten with screws and washers (A, Figure 2).
- 6. Close belt cover and secure with lock knob (B, Figure 2).
- 7. Remove transportation strap which holds the bow to the bed, and keep it for later use should the saw be moved any distance.

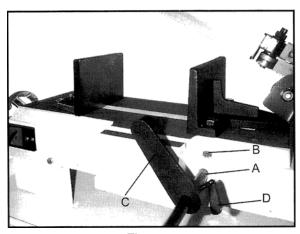


Figure 1

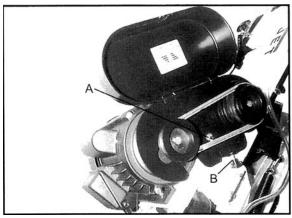


Figure 2

6.4 Vertical cutting plate

Note: These steps are only necessary if using the band saw in vertical mode.

power source before making repairs or adjustments.

- 1. Disconnect band saw from power source.
- Raise bow to vertical position by turning the bow stop (A, Figure 3) a quarter turn clockwise; slowly bring bow to vertical and lock in place by turning the hydraulic cylinder valve to the off position. Caution: Do not pinch fingers between bow stop and bracket.
- 3. Remove two screws (A, Figure 4) and remove deflector plate (B, Figure 4).
- 4. Guide blade through the slot in the table and fasten with two screws. See Figure 5.
- 5. When vertical operations are completed, to lower bow turn hydraulic cylinder lever to on position.

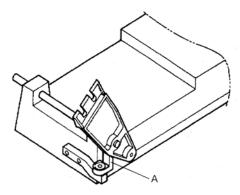


Figure 3

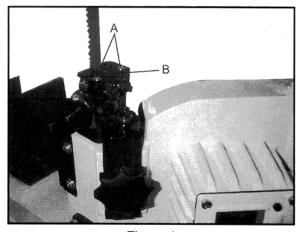


Figure 4

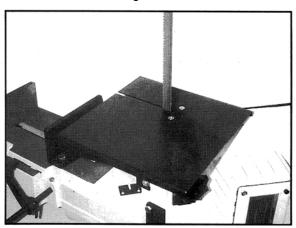


Figure 5

6.5 Coolant tank preparation

Use of a water-soluble coolant will increase cutting efficiency and prolong blade life. Do not use black cutting oil as a substitute. Change cutting oil often and follow manufacturer's instructions as to its uses and precautions.

- 1. Disconnect machine from power source.
- Remove coolant return hose from the tank cover.
- 3. Slide tank out of saw base and carefully remove the lid containing the coolant pump.

- 4. Fill tank to approximately 80% of capacity.
- 5. Place lid back onto tank, and place tank assembly back into base.
- Replace return hose back into the hole in the tank lid.

6.6 Electrical connections

AWARNINGElectrical connections must be made by a qualified electrician in compliance with all relevant codes. This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

1. All Grounded, Cord-connected Tools:

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 tool 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.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a 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.

electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Failure to comply may cause serious or fatal injury.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating **less than 150** volts:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in **A**, Figure 6. An adapter, shown in **B** and **C**, may be

used to connect this plug to a 2-pole receptacle as shown in **B** if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. *This adapter is not permitted in Canada*. The greencolored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

3. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating between **150 - 250 volts**, inclusive:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in **D**, Figure 6. The tool has a grounding plug that looks like the plug illustrated in **D**. Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this tool. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the tool should comply with all local codes and ordinances.

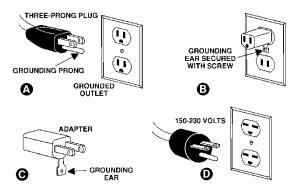


Figure 6

6.7 Voltage conversion

The HVBS-7MW band saw is rated at 115/230V and comes from the factory prewired at 115V. To switch to 230V operation, follow the wiring diagram found on the inside of the motor junction box. (Similar diagrams are shown in Figures 7/8.) The plug must be replaced with a plug that is rated at 230V. The coolant pump wiring will have to be changed also. Follow the diagram found on the coolant pump head to switch to 230V operation.

Before hooking up to the power source, be sure the power and coolant switches are in the off position.

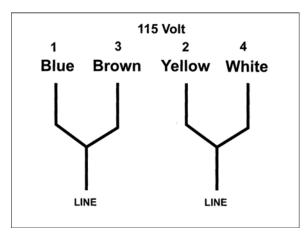


Figure 7

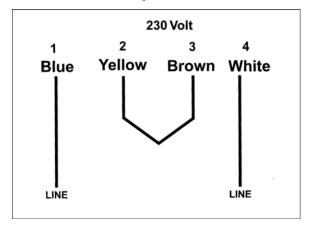


Figure 8

6.8 Extension cords

The use of extension cords is discouraged. Try to position machines within reach of the power source. If an extension cord becomes necessary, make sure the cord is in good condition and heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Amper Rating		Volts	Tota cord	l lengtl in feet	n of	
More	Not More	120 240	25 50	50 100	100 200	150 300
Than	Than				AWG	
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12		ot mended

Extension Cord Recommendations
Table 1

7.0 Adjustments

7.1 Hydraulic feed selector

The hydraulic feed selector is used to control the blade feed rate and to lock the bow in vertical position. To increase feed rate, turn knob (A, Figure 9) counter-clockwise. To decrease feed rate, turn knob (A) clockwise. To turn off flow of hydraulic fluid, turn lever (B) as shown in Figure 9. To turn hydraulic cylinder on, raise lever (B) to the 12 o'clock position.

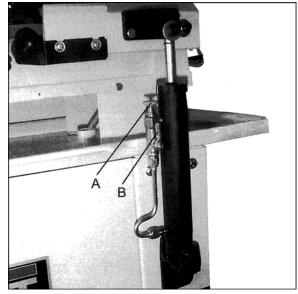


Figure 9

7.2 Changing blade speed

- 1. Disconnect machine from power source.
- 2. Loosen motor plate lock bolt (A, Figure 10).
- 3. Loosen motor plate slide bolt (B, Figure 10) until the belt can be moved on the pulleys.
- 4. Move belt to desired pulley combination.
- 5. Tighten motor plate slide bolt (B) to retension belt.
- 6. Tighten motor plate lock bolt (A).
- 7. Connect machine to power source.

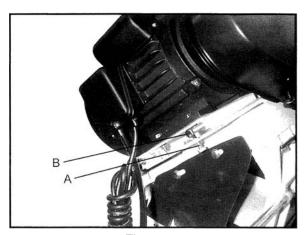


Figure 10

7.3 Adjusting blade guides

- 1. Disconnect machine from power source.
- 2. Loosen knob (A, Figure 11) and bolt (B, Figure 11). Slide blade guide assemblies as close as possible to material without interfering with the cut.
- Tighten knob (A, Figure 11) and bolt (B, Figure 11) and connect machine to power source.

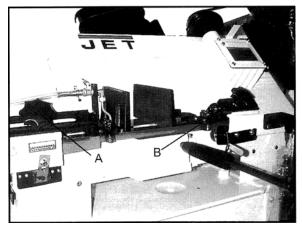


Figure 11

7.4 Vise adjustment

AWARNING Do not make any adjustments or load/unload material from vise while machine is running. Failure to comply may cause serious injury.

To set the vise for 0 to 45 degree cutting:

- 1. Remove bolt and nut assemblies (C, Figure 12).
- 2. Position the vise and re-install as pictured in Figure 13. Pay particular attention to the bolt hole location.

- 3. Set vise to desired angle, re-install nuts and bolts, and tighten the nut and bolt assemblies.
- 4. Adjust the movable vise parallel to the fixed vise by loosening bolt (A, Figure 13), adjusting to parallel, and tightening bolt.

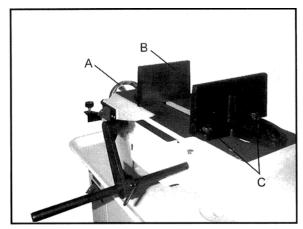


Figure 12

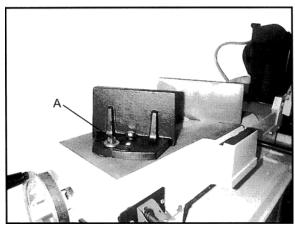


Figure 13

To set vise for maximum width of stock cutting:

- 1. Remove the nut and bolt assemblies.
- 2. Position the vise and re-install the bolt assemblies as pictured in Figure 12.

7.5 Blade tension

AWARNING Disconnect machine from power source. Blades are sharp; use extra care when removing, installing or adjusting. Failure to comply may cause serious injury.

Blade tension is important to the proper operation of the saw. Proper blade tension is 22,000 to 25,000 lbs. per square inch as measured on a blade tension gauge.

To set the blade tension without the use of a blade tension gauge:

- Install blade between the wheels, and insert blade between the bearings on the blade guides.
- 2. Tension blade slightly to remove any sag in blade between blade wheels.
- 3. Turn blade tension knob (A, Figure 14) one and three quarter to two revolutions clockwise. This equals approximately 23,000 lbs. of blade tension.

ACAUTION Do not overtighten blade. This may cause blade to stretch and warp.

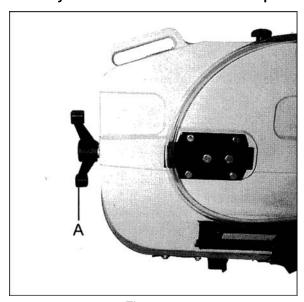


Figure 14

- 4. After blade has been completely installed, close the covers, connect to power source, and run saw for two to three minutes so the blade can seat properly.
- 5. Disconnect machine from power source. Open the cover and loosen blade just until it begins to sag.
- 6. Tighten blade until it becomes straight between the blade wheels and all sag has been eliminated.
- 7. Tighten blade by turning blade tension wheel two full revolutions. Blade is now properly tensioned and ready for use.
- 8. Close the covers and connect machine to power source.

7.6 Changing blades

AWARNING Never operate this saw unless all blade guards are installed and in proper working order. Never adjust blade brush while machine is running.

This machine is designed and intended for use with blades that are 3/4" wide by 0.032" thick x 93" long. Use of blades with difference specifications may cause inferior performance.

- 1. Disconnect machine from power source.
- 2. Raise bow to vertical position and lock in place by turning the hydraulic cylinder off.
- 3. Remove red blade guard assembly (A, Figure 15) by removing two screws (B, Figure 15).

AWARNING It is essential this guard be installed after the new blade has been fitted.

4. Remove brush assembly (C, Figure 15) by removing two screws (D, Figure 15).

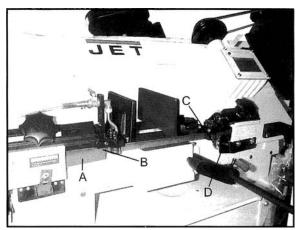


Figure 15

- 5. Loosen blade tension by turning blade tension knob counter-clockwise.
- 6. Carefully remove old blade. Caution: blade teeth are sharp. Handle with care.
- Install new blade by placing the blade between blade guides first. Make sure the blade teeth face the same direction as indicated on the label found on the saw bow.
- 8. Place the blade around both wheels. Make sure the blade edge rests near the wheel flange on both wheels.
- 9. Turn the blade tension knob clockwise to tension the blade. Do not over tension. See section 7.5, Blade tension.
- Close blade cover door and secure with lock knobs.
- 11. Attach red blade guard and brush assembly.
- 12. Connect machine to power source.

13. Run the saw and make sure blade is tracking properly (see section 7.9).

7.7 Adjusting blade square to table

- 1. Disconnect machine from power source.
- 2. Place a machinist's square on the table and against the blade, as shown in Figure 16.
- 3. Verify that blade makes contact with square along the entire width of blade.
- 4. If adjustment is necessary, loosen bolts (A, Figure 16) and rotate blade guide assemblies slightly in the same direction until the blade makes contact with the square along its entire width.
- 5. Tighten bolts (A, Figure 16).
- 6. Connect machine to power source.

Note: If adjustment to square blade to table is necessary, be sure to check blade adjustments again.

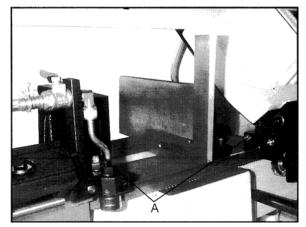


Figure 16

7.8 Adjusting blade square to vise

- 1. Disconnect machine from power source.
- Place a machinist's square flush against vise and blade, as shown in Figure 17.
 Square should lie along the entire length of vise and blade without a gap.
- 3. If adjustment is necessary, loosen the bolts holding the vice and adjust the vise so that the square lines up properly. Tighten bolts.
- 4. Connect machine to power source.

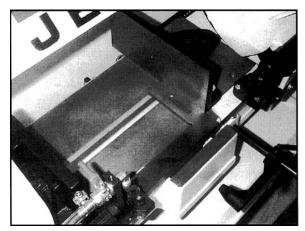


Figure 17

7.9 Adjusting blade tracking

AWARNING Blade tracking adjustment requires running the saw with the back cover open. This adjustment must be completed by qualified persons only.

Note: Before making any tracking adjustments, try a new blade. Warped blades will not track.

Blade tracking has been set at the factory and should not require adjustment. If tracking problems occur, adjust the machine as follows:

- Move saw bow to vertical position and lock in place by shutting off hydraulic cylinder valve.
- 2. Confirm that blade tension is set properly. To adjust, see *section 7.5*, *Blade tension*.
- 3. Open back cover by loosening lock knobs.
- 4. Run the saw and observe the blade. Blade should run next to but not tightly against wheel flange.
- 5. Loosen bolts (A, Figure 18).
- Turn set screw (B, Figure 18) while observing the blade tracking on the wheel. Turn set screw clockwise to track the blade closer to the wheel flange. Turn set screw counter-clockwise to track blade away from wheel flange.
- 7. Once tracking is set, tighten bolts (A, Figure 18).

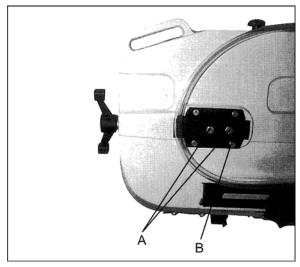


Figure 18

7.10 Adjusting blade guide bearings

- 1. Disconnect machine from power source.
- 2. Raise bow to vertical position and lock in place by turning off hydraulic cylinder valve.
- 3. Loosen hex cap screw (A, Figure 19) and adjust assembly so that the back roller bearing is approximately 0.003" to 0.005" from the back of the blade.
- 4. Turn nut (B, Figure 19) to adjust the eccentric bearing snug to the blade. Blade should still move up and down freely when grasped as in Figure 20. Warning! Make sure power is disconnected and hands are protected before handling blade. Be sure that the blade teeth do not interfere with the roller bearings.
- 5. Repeat for other blade guide assembly.
- 6. Connect machine to power source.

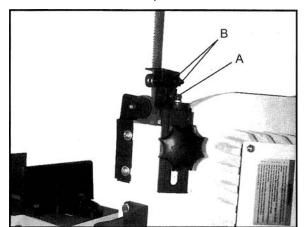


Figure 19

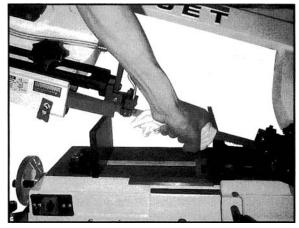


Figure 20

7.11 Adjusting bow weight

Bow weight is one of the most important adjustments of the saw. If bow weight is not set properly, one can expect poor performance, crooked cuts, tooth stripping, stalling, and the blade popping off the blade wheels. The hydraulic feed rate unit will not compensate for improper bow weight. Bow weight has been set at the factory and should not need adjustment.

If adjustment becomes necessary:

- 1. Disconnect machine from power source.
- 2. Turn on hydraulic cylinder valve and place the saw bow in horizontal position.
- 3. Turn feed rate valve on hydraulic cylinder counter-clockwise until it stops.
- 4. Place a fish-type scale under the blade tension handle and lift the saw bow. Scale should indicate approximately 13 to 15 lbs.
- 5. Adjust tension to approximately 13 to 15 lbs. by turning bolt (A, Figure 21).
- 6. Connect machine to power source.

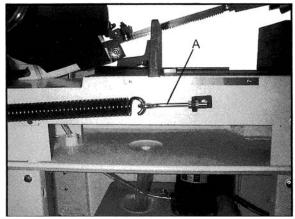


Figure 21

7.12 Adjusting automatic shutoff

The saw should stop after the cut has been completed:

- If the saw completes the cut and continues to run, adjust the trip bracket (A, Figure 22) down.
- 2. If the saw shuts off before the cut is complete, adjust the trip bracket (A, Figure 22) up.
- 3. If the saw stops cutting but continues to run, adjust the stop bolt (B, Figure 22).

The saw is properly adjusted when the saw shuts off just after the blade has finished the cut.

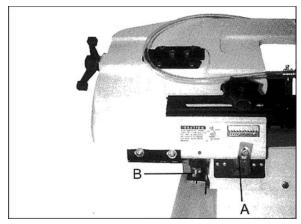


Figure 22

8.0 Operation

Prior to Operation:

- 1. Check to see that the blade tooth direction matches the diagram on saw body.
- 2. Check to see that the blade is properly seated on the wheels after proper tension has been applied.
- 3. Set the blade guide roller bearings snug against blade. See section 7.10, Adjusting blade guide bearings, for more detail.
- 4. Check for a slight clearance between the backup rollers and the back of the blade.
- 5. Position both blade guides as close to work as possible.
- Select proper speed and feed rate for material being cut.
- 7. Material to be cut must be held securely in vise.
- 8. Check to see that coolant level is adequate.
- Do not start a cut on a sharp edge.

10. Keep machine lubricated. See section 9.1, Lubrication.

9.0 Maintenance

AWARNING Disconnect machine from power source before making any repair or adjustment. Failure to do this may result in serious personal injury.

- 1. Keep all surfaces clean and free of rust, slag, chips, and coolant build-up.
- Do not use compressed air to clean the band saw. Compressed air may force chips into the guide bearings and other critical areas of the saw.
- 3. Use a small paint brush or parts cleaning brush to remove metal particles.
- 4. Wipe the saw down with a clean, dry cloth and oil all unpainted surfaces with light machine oil.
- 5. Keep the blade guides clean and free of metal chips.
- Check the guide bearings frequently to make sure they are properly adjusted and turning freely.

9.1 Lubrication

Ball bearings on the blade guide assemblies and the blade wheels are permanently sealed and require no lubrication.

Lightly lubricate the vise screw with #2 tube grease.

Change gear box oil after the first 90 days of operation. Thereafter, change every six months.

To change gear box oil:

- 1. Disconnect machine from power source.
- 2. Place saw bow in horizontal position.
- 3. Remove screws (A, Figure 23) from gear box and remove cover plate and gasket.

- 4. Hold a container under the lower right corner of the gear box with one hand while slowly raising the saw bow with the other.
- 5. Place the saw bow in horizontal position again. Wipe out remaining oil with a rag.
- 6. Fill the gear box with approximately 3/4 pint of 90 weight gear oil.
- Replace the gasket and cover. Fasten the cover with screws.
- 8. Connect machine to the power source.

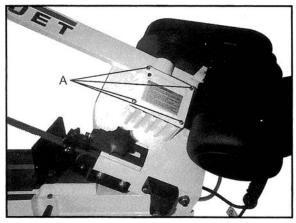


Figure 23

9.2 Chip Cleaning Brush

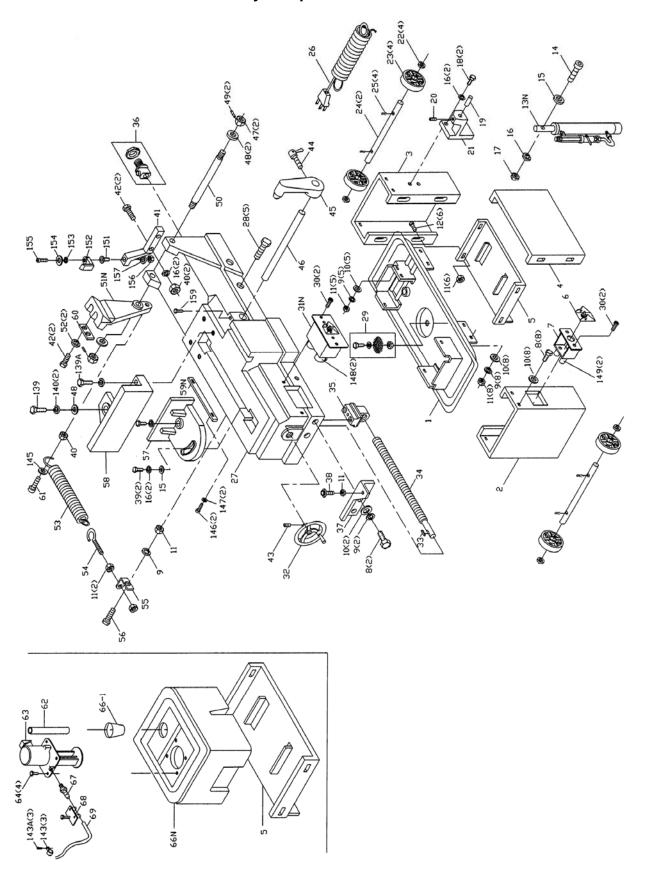
AWARNING Do not attempt to adjust blade brush with machine running. Adjust only when machine's power cord has been removed from power source.

It is very important that the blade cleaning brush be properly adjusted and kept in good working order. Replace the brush if it becomes damaged or worn out. Blade life will be shortened severely if the brush is allowed to go out of adjustment, becomes damaged, or is worn out.

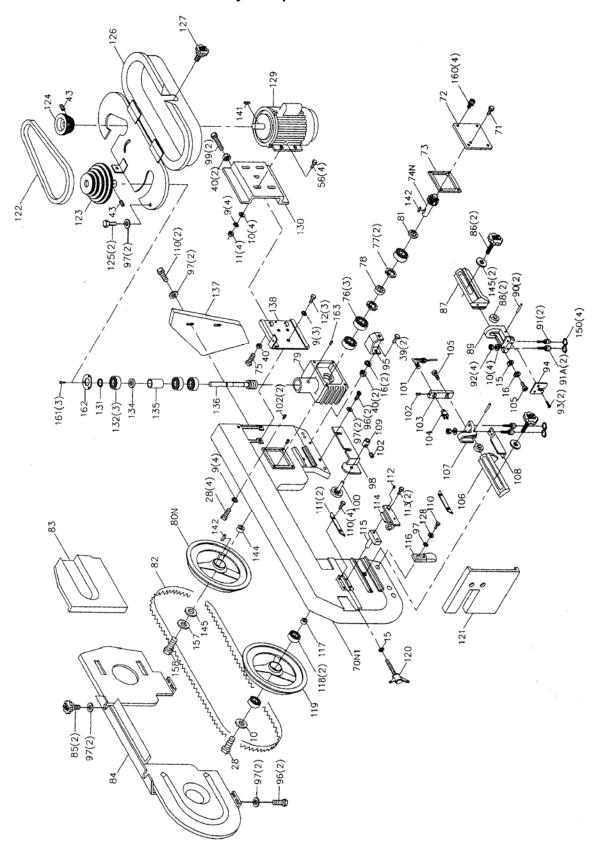
10.0 Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday (see our website for business hours, www.waltermeier.com). Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

10.1.1 HVBS-7MW Bed Assembly – Exploded View



10.1.2 HVBS-7MW Bow Assembly – Exploded View



10.1.3 HVBS-7MW Bed and Bow Assemblies – Parts List

Index No	Part No	Description	Size	Qty
1	. HVBS7MW-1	Coolant Pan		1
2	. HVBS7MW-2	Base Leg (left)		1
		Base Leg (right)		
4	. HVBS7MW-4	Skirt		1
5	. HVBS7MW-5	Shelf		1
6	. HVBS7MW-6	Toggle Switch		1
		Electrical Box		
		Hex Cap Bolt		
		Lock Washer		
		Flat Washer		
		Hex Nut		
		Hex Cap Bolt		
		Cylinder Assembly (S/N: 010218160 and lower)		
		Cylinder Assembly (S/N: 010218161 and higher)		
	. HVBS7MW-13-RK .	Cylinder Repair Kit (not shown)		1
14	.TS-150506	Hex Socket Cap Screw **	M10x40	1
		Flat Washer **		
-		Lock Washer **		_
		Hex Nut **		
18	. TS-0060051	Hex Cap Bolt **	3/8"x1"	2
19	. HVBS7MW-19	Support Rod **		1
20	.TS-0050011	Hex Cap Bolt **	1/4"x1/2"	1
		Bottom Support **		
22	. 5518228N	Flat Washer (S/N: 120141912 and higher)	23.8x13x2.7mm	4
23	. HVBS7MW-23	Wheel (S/N: 120141911 and lower)	4"	4
		Wheel (S/N: 120141912 and higher)		
		Wheel Shaft (S/N: 120141911 and lower)		
		Wheel Shaft (S/N: 120141912 and higher)		
25	. 5518231N	Cotter Pin (S/N: 120141912 and higher)		4
		Wheel Assembly (index # 22-25) (S/N: 1201419		
		Power Cord		
		Power Cord (motor - main switch -not shown)		
		Power Cord (main switch - pump - not shown)		
		Table		
		Hex Cap Bolt		
29	. HVBS/MW-29	Filter Assembly	0/40"-0/0"	1
30	. HVBS/IMW-30	Hex Head Screw	3/16"X3/8"	4
31	. HVBS/WW-31	Switch Box Assembly (S/N: 5011368 & lower)		1
		Switch Box Assembly (S/N: 5011369 & higher).		
		Switch (S/N: 5011368 & lower)		
		Switch (S/N: 5011369 & higher)		
		Vvneei Handie		
		Lead Screw		
		Nut Seat		
		Strain Relief Assembly		
		•		
		Support PlateStop Screw		
30 30	. 1 1 V DO / IVIVV - 30 TS-0060061	Hex Cap Bolt **	3/8"∨1 ₋ 1/⁄/"	I 1
ر ۸۱	TS-0561021	Пех Сар воіт Nut **	J/O X I = I/4 2/8"	4 o
41 42	. 1 1 V DO / IVIVV - 4 1 TS_0060071	90° Support Hex Cap Bolt	2/8"v1 1/2"	I
		Нех Сар воіt		
		Thumb Screw		
		Stop Block		
+∪	. 1 1 7 0 3 7 1010 0 - 45	otop Diock		1

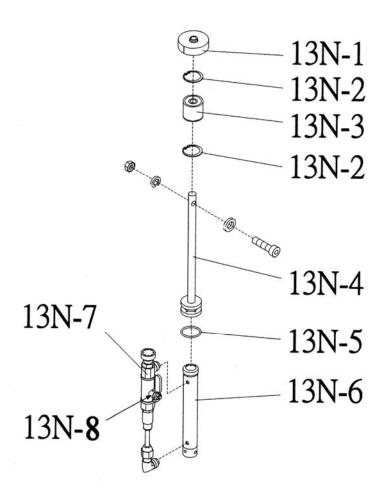
46. HVBSTMW-46. Stop Rod. 17. T-S-0561031. Hex Nut 1/2" 2 48. TS-0561031. Hex Nut 1/2" 2 48. TS-0560061. Flat Washer. 1/2" 4 49. TS-026702. Set Screw. 1/4"x1/4" 2 50. HVBSTMW-50. Support Shaft. 1 51. HVBSTMW-50. Support Shaft. 1 51. HVBSTMW-51. Pivot Arm (SN: 80910746 and lower). 1 52. TS-0720091. Lock Washer 3/8" 2 53. HVBSTMW-53. Spring - 3/8" 2 53. HVBSTMW-54. Spring Adjusting Rod. 1 54. HVBSTMW-54. Spring Adjusting Rod. 1 55. HVBSTMW-55. Spring Bracket. 1 56. TS-0051061. Hex Cap Bolt. 5/16"x1-1/2" 5 57. HVBSTMW-59. Vise Jaw (fight). 1 58. HVBSTMW-59. Vise Jaw (fight). 1 59. HVBSTMW-59. Scale (SN: 010217984 and lower). 1 59. HVBSTMW-99. Scale (SN: 010217986 and higher). 1 60. HVBSTMW-69. Scale (SN: 010217986 and higher). 1 61. TS-020308. Hex Socket Cap Screw. 3/8"x1-3/4". 1 62. HVBSTMW-69. Arm Support Plate. 1 63. HVBSTMW-69. Hex Cap Bolt. 1 64. TS-020308. Hex Socket Cap Screw. 3/8"x1-3/4". 1 65. HVBSTMW-69. Arm Support Plate. 1 66. HVBSTMW-69. Tank Cover (SN: 8091100 and lower). 1 66. HVBSTMW-69. Tank Cover (SN: 8091100 and lower). 1 66. HVBSTMW-69. Hex Socket Cap Screw. 3/8"x1-3/4". 1 66. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 66. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 66. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 67. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 68. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 69. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 60. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 60. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 61. TS-0050021. Hex Cap Bolt "1 62. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 63. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 64. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 65. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 66. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 67. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 68. HVBSTMW-69. Hex Socket Cap Screw. 3/6"x1-3/4". 1 69. HVBSTMW-70. Saw Bow (Srix 8091100 and lower). 1 60. HVBSTMW-70. Saw Bow (Srix 8091100 and lower). 1 60. HVBS	Index No	Part No	Description	Size	Qty
48. TS-0860061 Filat Washer. 1/2"					
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62. HVBS7MW-62 Hose	60	. HVBS7MW-60	Arm Support Plate		1
62. HVBS7MW-62 Hose	61	.TS-020908	Hex Socket Cap Screw	3/8"x1-3/4"	1
63 HVBS7MW-63 Pump 1 64 TS-0050021 Hex Cap Bolt * 1/4"x5/8" 4 65 HVBS7MW-65 Tank Cover (S/N: 8091100 and lower) 1 66 HVBS7MW-66 Coolant Tank (S/N: 8091100 and lower) 1 66 HVBS7MW-66N New Coolant Tank (S/N: 80911001 and higher) 1 67 HVBS7MW-66-IN Plastic Funnel (S/N: 80911001 and higher) 1 68 HVBS7MW-69 Hose Fitting 1 69 HVBS7MW-69 Hose 1 70 HVBS7MW-70 Saw Bow (S/N: 8091100 and lower) 1 70 HVBS7MW-70N1 Saw Bow (S/N: 8091101 and higher) 1 70 HVBS7MW-70N1 Saw Bow (JET Mark) (S/N: 010218161 and higher) 1 71 HVBS7MW-70N1 Saw Bow Gasket * 1 72 HVBS7MW-74 Vent Plug * 1 74 HVBS7MW-74 Worm Gear *(S/N: 00114808 and lower) 1 74 HVBS7MW-74 Worm Gear *(S/N: 00114809 and higher) 1 75 TS-05					
64 TS-0050021 Hex Cap Bolt * 1/4"x5/8" 4 65 HVBS7MW-65 Tank Cover (S/N: 8091100 and lower) 1 66 HVBS7MW-66 Coolant Tank (S/N: 8091100 and lower) 1 66N HVBS7MW-66N New Coolant Tank (S/N: 80911001 and higher) 1 66-1 HVBS7MW-66-1N Plastic Funnel (S/N: 80911001 and higher) 1 67 HVBS7MW-67 Hose Fitting 1 68 HVBS7MW-68 Hose Clamp 1 69 HVBS7MW-70 Saw Bow (S/N: 8091100 and lower) 1 70N HVBS7MW-70 Saw Bow (S/N: 8091101 and higher) 1 70N HVBS7MW-70N-1 Saw Bow (S/N: 8091101 and higher) 1 70N HVBS7MW-70N-1 Saw Bow (JET Mark) (S/N: 010218161 and higher) 1 71 HVBS7MW-71 Vent Plug * 1 72 HVBS7MW-72 Gear Box Cover * 1 73 HVBS7MW-73 Gear Box Gasket * 1 74 HVBS7MW-74 Worm Gear *(S/N: 00114808 and lower) 1 75 TS-051061 Hex Cap Bot * 5/16"x1-1/4" 1	63	. HVBS7MW-63	Pump		1
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66-1 HVBS7MW-66-1N Plastic Funnel (S/N: 80911001 and higher) 1 67 HVBS7MW-67 Hose Fitting 1 68 HVBS7MW-68 Hose Clamp 1 69 HVBS7MW-70 Saw Bow (S/N: 8091100 and lower) 1 70 HVBS7MW-70N Saw Bow (S/N: 8091101 and higher) 1 70N HVBS7MW-70N1 Saw Bow (S/N: 8091101 and higher) 1 70N1 HVBS7MW-70N1 Saw Bow (JET Mark) (S/N: 010218161 and higher) 1 71 HVBS7MW-71 Vent Plug * 1 72 HVBS7MW-72 Gear Box Cover * 1 73 HVBS7MW-73 Gear Box Gasket * 1 74 HVBS7MW-74 Worm Gear *(S/N: 00114808 and lower) 1 74 HVBS7MW-74N Worm Gear *(S/N: 00114809 and higher) 1 75 TS-051061 Hex Cap Bolt * 5/16"x1-1/4" 1 76 BB-6005Z Ball Bearing * 3 77 HVBS7MW-77 C-Ring * R-47 2 78 HVBS7MW-79 Gear Box * 1 80 HVBS7MW-80 Blade					
67. HVBS7MW-67 Hose Fitting 1 68. HVBS7MW-68 Hose 1 69. HVBS7MW-69 Hose 1 70. HVBS7MW-70 Saw Bow (S/N: 8091100 and lower). 1 70. HVBS7MW-70N Saw Bow (S/N: 8091101 and higher) 1 70N1 HVBS7MW-70N1 Saw Bow (JET Mark) (S/N: 010218161 and higher) 1 71. HVBS7MW-71 Vent Plug * 1 72. HVBS7MW-72 Gear Box Cover * 1 73. HVBS7MW-73 Gear Box Gasket * 1 74. HVBS7MW-74 Worm Gear *(S/N: 00114808 and lower) 1 74. HVBS7MW-74 Worm Gear *(S/N: 00114809 and higher) 1 75. TS-051061 Hex Cap Bolt * 5/16"x1-1/4" 1 76. BB-6005Z Ball Bearing * 3 77. HVBS7MW-78 Oil Seal * 1 79. HVBS7MW-79 Gear Box * 1 80. HVBS7MW-80 Blade Wheel (S/N: 00114809 and higher) 1 81. HVBS7MW-81 Worm Bushing * 1 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
68					
69					
70. HVBS7MW-70. Saw Bow (S/N: 8091100 and lower). 1 70N. HVBS7MW-70N. Saw Bow (S/N: 8091101 and higher). 1 70N1. HVBS7MW-70N1. Saw Bow (JET Mark) (S/N: 010218161 and higher). 1 71. HVBS7MW-71. Vent Plug * 1 72. HVBS7MW-72. Gear Box Cover * 1 73. HVBS7MW-73. Gear Box Gasket * 1 74. HVBS7MW-74. Worm Gear *(S/N: 00114808 and lower). 1 74N. HVBS7MW-74N. Worm Gear *(S/N: 00114809 and higher). 1 75. TS-051061. Hex Cap Bolt * 5/16"x1-1/4". 1 76. BB-6005Z. Ball Bearing * 3 77. HVBS7MW-77. C-Ring * R-47 2 78. HVBS7MW-78. Oil Seal * 1 79. HVBS7MW-79. Gear Box * 1 80. HVBS7MW-80. Blade Wheel (S/N: 00114808 and lower). 1 81. HVBS7MW-81. Worm Bushing * 1 82. HVBS7MW-82. Bi-Metal Blade. 1 83. HVBS7MW-84.					
70N HVBS7MW-70N Saw Bow (S/N: 8091101 and higher) 1 70N1 HVBS7MW-70N1 Saw Bow (JET Mark) (S/N: 010218161 and higher) 1 71 HVBS7MW-71 Vent Plug * 1 72 HVBS7MW-72 Gear Box Cover * 1 73 HVBS7MW-73 Gear Box Gasket * 1 74 HVBS7MW-74 Worm Gear *(S/N: 00114808 and lower) 1 74 HVBS7MW-74N Worm Gear *(S/N: 00114809 and higher) 1 75 TS-051061 Hex Cap Bolt * 5/16"x1-1/4" 1 76 BB-6005Z Ball Bearing * 3 3 77 HVBS7MW-77 C-Ring * R-47 2 78 HVBS7MW-78 Oil Seal * 1 79 HVBS7MW-79 Gear Box * 1 80 HVBS7MW-80 Blade Wheel (S/N: 00114808 and lower) 1 81 HVBS7MW-80 Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 Worm Bushing * 1 82 HVBS7MW-82 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
70N1 HVBS7MW-70N1 .Saw Bow (JET Mark) (S/N: 010218161 and higher) 1 71 HVBS7MW-71 .Vent Plug * 1 72 HVBS7MW-72 .Gear Box Cover * 1 73 HVBS7MW-73 .Gear Box Gasket * 1 74 HVBS7MW-74 .Worm Gear *(S/N: 00114808 and lower) 1 74N HVBS7MW-74N .Worm Gear *(S/N: 00114809 and higher) 1 75 TS-051061 .Hex Cap Bolt * .5/16"x1-1/4" 1 76 BB-6005Z .Ball Bearing * 3 3 77 HVBS7MW-77 .C-Ring * R-47 2 78 HVBS7MW-78 .Oil Seal * 1 79 HVBS7MW-79 .Gear Box * 1 80 HVBS7MW-80 .Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 .Worm Bushing * 1 82 HVBS7MW-82 .Bi-Metal Blade 1 83 HVBS7MW-83 .Wheel Cover 1 84 HVBS7MW-84 .Rear Wheel Cover 1 85 HVBS7MW-85 .Plum Screw 2					
71					
72	71	HVBS7MW-71	Vent Plug *		1
73	72	HVBS7MW-72	Gear Box Cover *		1
74. HVBS7MW-74 Worm Gear *(S/N: 00114808 and lower) 1 74N. HVBS7MW-74N. Worm Gear *(S/N: 00114809 and higher) 1 75. TS-051061. Hex Cap Bolt * 5/16"x1-1/4" 1 76. BB-6005Z. Ball Bearing * 3 77. HVBS7MW-77. C-Ring * R-47 2 78. HVBS7MW-78. Oil Seal * 1 79. HVBS7MW-79. Gear Box * 1 80. HVBS7MW-80. Blade Wheel (S/N: 00114808 and lower) 1 80. HVBS7MW-80. Blade Wheel (S/N: 00114809 and higher) 1 81. HVBS7MW-81. Worm Bushing * 1 82. HVBS7MW-82. Bi-Metal Blade 1 83. HVBS7MW-83. Wheel Cover 1 84. HVBS7MW-84. Rear Wheel Cover 1 85. HVBS7MW-85. Plum Screw 2 86. HVBS7MW-86. Lock Knob 2 87. HVBS7MW-87. Adjustable Bracket (right) 1 88. BB-608ZZ. Ball Bearing 2					
74N HVBS7MW-74N Worm Gear *(S/N: 00114809 and higher) 1 75 TS-051061 Hex Cap Bolt * .5/16"x1-1/4" 1 76 BB-6005Z Ball Bearing * 3 77 HVBS7MW-77 C-Ring * R-47 2 78 HVBS7MW-78 Oil Seal * 1 79 HVBS7MW-79 Gear Box * 1 80 HVBS7MW-80 Blade Wheel (S/N: 00114808 and lower) 1 80N HVBS7MW-80N Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 Worm Bushing * 1 82 HVBS7MW-82 Bi-Metal Blade 1 83 HVBS7MW-83 Wheel Cover 1 84 HVBS7MW-84 Rear Wheel Cover 1 85 HVBS7MW-85 Plum Screw 2 86 HVBS7MW-86 Lock Knob 2 87 HVBS7MW-87 Adjustable Bracket (right) 1 88 BB-608ZZ Ball Bearing 2 89 HVBS7MW-89 Adjustable Blade Seat (right) 1					
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76 BB-6005Z Ball Bearing * 3 77 HVBS7MW-77 C-Ring * R-47 2 78 HVBS7MW-78 Oil Seal * 1 79 HVBS7MW-79 Gear Box * 1 80 HVBS7MW-80 Blade Wheel (S/N: 00114808 and lower) 1 80N HVBS7MW-80N Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 Worm Bushing * 1 82 HVBS7MW-82 Bi-Metal Blade 1 83 HVBS7MW-83 Wheel Cover 1 84 HVBS7MW-84 Rear Wheel Cover 1 85 HVBS7MW-85 Plum Screw 2 86 HVBS7MW-86 Lock Knob 2 87 HVBS7MW-87 Adjustable Bracket (right) 1 88 BB-608ZZ Ball Bearing 2 89 HVBS7MW-89 Adjustable Blade Seat (right) 1					
77 HVBS7MW-77 C-Ring * R-47 2 78 HVBS7MW-78 Oil Seal * 1 79 HVBS7MW-79 Gear Box * 1 80 HVBS7MW-80 Blade Wheel (S/N: 00114808 and lower) 1 80N HVBS7MW-80N Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 Worm Bushing * 1 82 HVBS7MW-82 Bi-Metal Blade 1 83 HVBS7MW-83 Wheel Cover 1 84 HVBS7MW-84 Rear Wheel Cover 1 85 HVBS7MW-85 Plum Screw 2 86 HVBS7MW-86 Lock Knob 2 87 HVBS7MW-87 Adjustable Bracket (right) 1 88 BB-608ZZ Ball Bearing 2 89 HVBS7MW-89 Adjustable Blade Seat (right) 1					
78					
79. HVBS7MW-79 Gear Box * 1 80. HVBS7MW-80 Blade Wheel (S/N: 00114808 and lower)	7 / 78	. 1 1 V D G / IVIVV = / / H\/R\$7\M\\/_7\2			∠ 1
80. HVBS7MW-80 Blade Wheel (S/N: 00114808 and lower) 1 80N HVBS7MW-80N Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 Worm Bushing * 1 82 HVBS7MW-82 Bi-Metal Blade 1 83 HVBS7MW-83 Wheel Cover 1 84 HVBS7MW-84 Rear Wheel Cover 1 85 HVBS7MW-85 Plum Screw 2 86 HVBS7MW-86 Lock Knob 2 87 HVBS7MW-87 Adjustable Bracket (right) 1 88 BB-608ZZ Ball Bearing 2 89 HVBS7MW-89 Adjustable Blade Seat (right) 1					
80N HVBS7MW-80N Blade Wheel (S/N: 00114809 and higher) 1 81 HVBS7MW-81 Worm Bushing * 1 82 HVBS7MW-82 Bi-Metal Blade 1 83 HVBS7MW-83 Wheel Cover 1 84 HVBS7MW-84 Rear Wheel Cover 1 85 HVBS7MW-85 Plum Screw 2 86 HVBS7MW-86 Lock Knob 2 87 HVBS7MW-87 Adjustable Bracket (right) 1 88 BB-608ZZ Ball Bearing 2 89 HVBS7MW-89 Adjustable Blade Seat (right) 1	80	. 1 1 V D 3 / IVIVV - / 3 - H\/R	Rlade Wheel (S/N: 00111808 and lower)		
81 HVBS7MW-81					
82 HVBS7MW-82 Bi-Metal Blade 1 83 HVBS7MW-83 Wheel Cover 1 84 HVBS7MW-84 Rear Wheel Cover 1 85 HVBS7MW-85 Plum Screw 2 86 HVBS7MW-86 Lock Knob 2 87 HVBS7MW-87 Adjustable Bracket (right) 1 88 BB-608ZZ Ball Bearing 2 89 HVBS7MW-89 Adjustable Blade Seat (right) 1					
83. HVBS7MW-83					
84					
85					
86					
87HVBS7MW-87Adjustable Bracket (right)					
88BB-608ZZBall Bearing					
89HVBS7MW-89Adjustable Blade Seat (right)1					
90 HVBS/MW-90 Bearing Pin 2					
91HVBS7MW-91Eccentric Shaft Assembly (outside)					
91AHVBS7MW-91ACenter Shaft Assembly(inside)(S/N: 80910747 and higher)					
BB-608ZZ Ball Bearing (not shown)					
HVBS7MW-91-2Eccentric Shaft (outside) (not shown)2		91-2	Eccentric Shatt (outside) (not shown)		2

Index No	Part No	Description	Size	Qty
	. HVBS7MW-91A-2	Center Shaft (inside)(S/N: 80910747 and highe	r)	2
	. HVBS7MW-91-3	C-Ring (not shown)		4
92	. TS-0561031	Hex Nut	3/8"	4
93	.TS-081F021	Flat Head Machine Screw	1/4"x3/8"	2
		Vertical Cutting Plate		
95	. HVBS7MW-95	Top Support **		1
		Round Head Screw		
		Flat Washer		
98	. HVBS7MW-98	Brush Holder		1
99	.TS-0060111	Hex Cap Bolt	3/8"x2-1/2"	2
		Brush		
		Nozzle Cock		
		Set Screw		
		Nozzle Cock Support		
		Valve		
		Hex Socket Cap Screw		
		Adjustable Bracket (left)		
		Adjustable Blade Seat (left)		
		Blade Guard		
109	. HVBS/MW-109	Brush Support	4 / 4 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	1
110	. 15-0050011	Hex Cap Bolt	1/4"X1/2"	/
		Guide Plate		
		Set Screw		
		Hex Cap Bolt		
		Blade Tension Block		
115	. HVBS/IVIVV-115	Sliding Draw Block		1
		Bearing Bushing		
		Ball Bearing Blade Wheel (left)		
		Blade Tension Handwheel		
		Vertical Cutting Plate		
		V-Belt		
		Worm Pulley		
		Motor Pulley		
125	H\/RS7M\\\/-125	Hex Head Screw	1///"v3/8"	
		Pulley Cover		
127	HVBS7MW-127	Lock Screw		
		Lock Washer		
		Motor		
		Motor Fan <i>(not shown)</i>		
		Motor Fan Cover (not shown)		
		Motor Mount Plate		
		C-Ring *		
132	.BB-6003Z	Ball Bearing *		3
		Oil Seal *		
		Bearing Bushing *		
		Worm Shaft *		
		Support Plate		
		Motor Support Plate		
		Hex Cap Bolt		
		Hex Cap Bolt		
		Lock Washer		
		Key		
		Key *		
143	. HVBS7MW-143	Hose Clamp		3
143A	. HVBS7MW-143A	Round Head Screw	3/16"x3/8"	3

Index No Part No	Description	Size	Qty
144HVBS7MW-144	Bearing Bushing		1
145 HVBS7MW-145	Flat Washer	3/8"	4
146 HVBS7MW-146	Cross Screw		
147 HVBS7MW-147	Flat Washer		
148 HVBS7MW-148	Strain Relief Bushing		
149 HVBS7MW-149			
150 HVBS7MW-150			
	Support Screw		1
152 HVBS7MW-152	Bracket		
HVBS7MW-152A	Arm Stop Assembly CP		
153 HVBS7MW-153	Spring		1
154 HVBS7MW-154			1
	Hex Socket Cap Screw		
	Nut		
	Lock Washer		
	Hex Cap Bolt		
	Hex Cap Bolt		
	Hex Cross Head Bolt w/ Lock Washer *1/4		4
HVBS/MW-GB	Gear Box Assembly (not shown)(index #161 i	•	
104 TO 0000004	(S/N: 070935060 and hig		
161TS-0206021	Socket Head Cap Screw*		
162HVBS7MW-162			
	Socket Set Screw*		
164 HVBS/MW-164	Fix bracket		1

included in HVBS7MW-GB Gear Box Assembly
 included in HVBS7MW-13-RK Cylinder Repair Kit

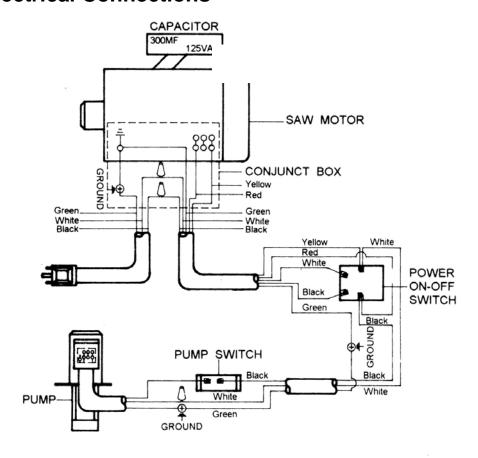
10.2.1 HVBS-7MW Cylinder Assembly – Exploded View



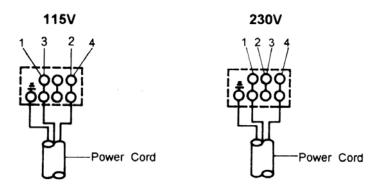
10.2.2 HVBS-7MW Cylinder Assembly – Parts List

Index No Part No	Description	Size	Qty
13N HVBS1	7MW-13NCylinder Complete Assemb	ly (S/N: 01028161 and higher)	1
HVBS1	7MW-13N-1Dust Cover		1
HVBS1	7MW-13N-2C-Ring		2
HVBS1	7MW-13N-3Oil Seal		1
HVBS1	7MW-13N-4Oil Piston		1
HVBS1	7MW-13N-5O-Ring		1
	7MW-13N-6Cylinder Body		
HVBS1	7MW-13N-7Oil Pressure Regulator		1
	7MW-13N-8Open/Close Valve		

11.0 Electrical Connections



Main Motor Dual Voltage Wiring



Coolant Pump Dual Voltage Wiring

