

Operating Instructions and Parts Manual HB-1697H Hand Brake



WALTER MEIER (Manufacturing) Inc.

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Warranty and Service

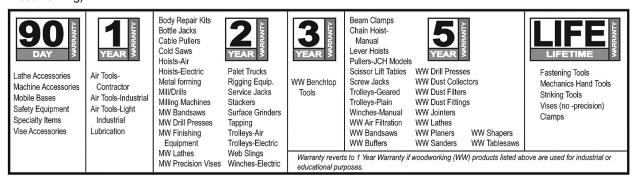
Walter Meier (Manufacturing) Inc., warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these Walter Meier Authorized Service Centers can authorize warranty 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.

Walter Meier sells through distributors only. The specifications in Walter Meier catalogs are given as general information and are not binding. Members of Walter Meier reserve the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET₀ branded products are not sold in Canada by Walter Meier.



- 1. For your own safety read instruction manual before operating grinder.
- 2. Read and understand the entire owner's manual before attempting assembly or operation.
- 3. 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.
- 4. This hand brake 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 hand brake, do not use until proper training and knowledge have been obtained.
- 5. Do not exceed the rated capacity on this hand brake.
- 6. Do not use this hand brake 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.
- 7. Wear eye protection and always use guards and eye shields.
- 8. Always wear approved safety glasses/face shields while using this bench grinder. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- 9. Before operating this bench grinder, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
- 10. Wear ear protectors (plugs or muffs) during extended periods of operation.
- 11. 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.

- 12. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
- 13. KEEP GUARDS IN PLACE and in working order at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
- 14. Make sure the hand brake is firmly secured to the floor before use.
- 15. 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.
- SHEET METAL STOCK HAS SHARP EDGES. To prevent cuts, use caution when handling.
- 17. **KEEP HANDS AND FINGERS** clear of the area in front and rear of the brake.
- 18. Provide for adequate space surrounding work area and non-glare, overhead lighting.
- 19. Make your workshop child proof with padlocks, master switches or by removing starter keys
- 20. Keep visitors a safe distance from the work area. Keep children away.



- 21. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted. Keep the floor around the machine clean and free of scrap material, oil and grease.
- 22. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 23. Do not overreach or use excessive force to perform any machine operation.
- 24. Use the right machine. Do not force a machine or attachment to do a job for which it was not designed. The right tool will do the job better and safer.
- 25. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 26. Make sure the work piece is securely attached or clamped to the table. Never use your hand to hold the work piece.
- 27. Do not stand on the machine. Serious injury could occur if the machine tips over.
- 28. Remove loose items and unnecessary work pieces from the area before starting the machine.
- 35. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.

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.

AWARNING

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

-- SAVE THESE INSTRUCTIONS --

Specifications

Model	HB-1697N
Stock Number	752002
Capacity	
Overall Dimensions (LxWxH)	120"x31"x57"
Maximum Lift of Beam	2-1/4"
Beam Adjustment (front to rear)	
Weight	1,808 lbs

The above specifications were current at the time this manual was published, 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.

AWARNING

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

Uncrating and Clean-Up

- 1. Remove the crate from around the machine.
- Carefully clean all rust protected surfaces with a mild solvent or kerosene and a soft rag. Do not use lacquer thinner, paint thinner, or gasoline. These will damage painted surfaces.
- Coat all machined surfaces with a light coat of oil to inhibit rust.
- Remove the bolts holding the machine to the skid.
- Carefully move the machine to a well lighted area on a solid, level work bench, and secure to the bench with lag screws or bolts.
- 6. Machine location must allow access to all sides.

Brake Setup

The brake will not bend properly if it is not level. Use a machinist's level and shims if necessary.

Apron Adjustments

The (#) in the text refers to the breakdown.

The apron assembly has been adjusted at the factory for proper use of capacity material. During shipment of this unit the machine may have come out of alignment.

Forward edge – The forward edge of the top blade (1) should be adjusted parallel to the pivot edge of the clamp block. Release clamping pressure on the holddown assembly by pushing clamp handles (8,9) slightly to the rear. Turn the hex cap screws (16) to adjust for parallel.

Center – The center of the apron can be adjusted by tightening the truss nut on the apron assembly (801).

Operating the Brake

Adjusting for Metal Thickness

The holddown assembly must be adjusted to allow for clearance when making bends

according to the thickness of the material. Clearance for material within four gauges of the capacity should be twice the thickness of the material. For lighter gauges use 1-1/2" times the thickness. The forward edge of the top blade (1) should be adjusted parallel to the pivot edge of the clamp block. Release clamping pressure on the holddown assembly by pushing clamp handles (8,9) slightly to the rear. Turn the hex cap screws (16) to adjust for parallel and proper clearance. The center of the holddown can be adjusted by tightening the truss nut on the holddown assembly.

Adjusting the Clamping Pressure

The clamping pressure should be adjusted according to the thickness of the material. The clamping pressure should be great enough to hold the material securely in place but not so much that it is difficult to lock the clamping handles. Clamping pressure can be adjusted by turning the nuts (24) on the threaded rod portion of the yoke assembly (8,9).

Flange Capacity

The recommended minimum flange in capacity material is one inch.

Repeat Bends

Adjust the gauge stop (26) on the gauge rod (31) to limit the swing of the apron assembly.

Counter Weight

The counter weight (44) can be moved up or down to provide more or less leverage depending on the material.

Lubrication

The machine must be lubricated every day of service with a few drops of oil. Oil pinholes are located at both yoke assemblies (8,9), and the apron assembly near the hinge pin (23).

Lightly oil the machined parts when not in use to prevent rust

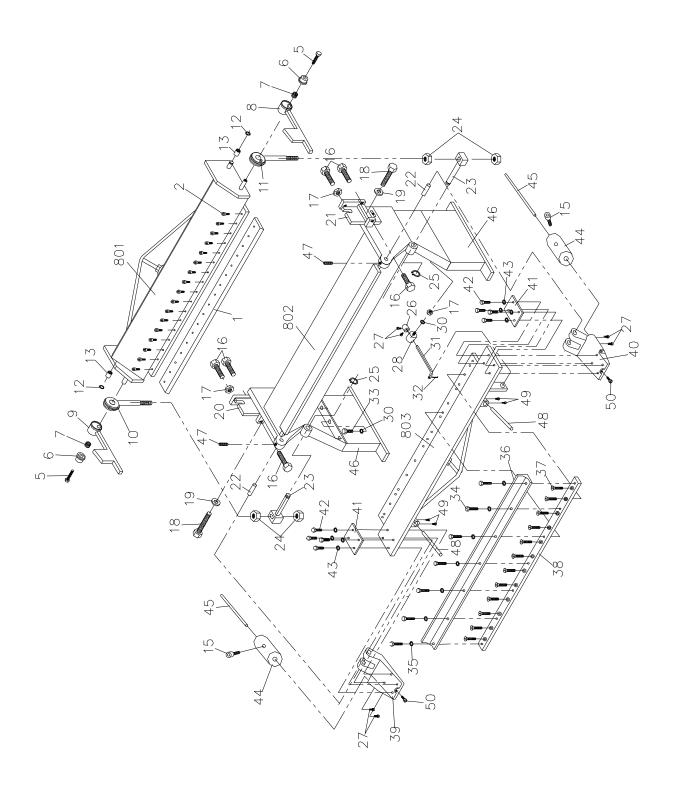
Replacement Parts

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

Parts List

Index No	Part No	Description	Size	Qty
1	. HB1697F-01	Top Blade		1
		Socket Cap Screw		
		Hex Head Screw		
		Cover		
		Spring		
		Clamp Handle R.H		
		Clamp Handle L.H.		
		Toggle Assembly L.H		
		Toggle Assembly R.H		
		C-Clip		
		Brass Bushing		
		Socket Head Cap Screw		
		Hex Head Screw		
		Hex Nut		
		Hex Head Screw		
		Plain Washer		
		Step Bracket Comp.L.H.		
		Step Bracket Comp.R.H		
		Brass Pivot Pin		
		Swivel Pin Assembly		
		Hex Nut		
		C-Clip		
26	. HB169/F-16	Gauge Stop		1
		Socket Cap Screw		
28	. HB1697F-15	Gauge Ring		1
		Spring Washer		
		Gauge Rod		
		Cotter Pin		
		Hex Head Screw		
		Socket Cap Screw		
		Plain Washer		
		Angle Bar		
-		Socket Head Flat Screw		
		Insert Bar		
		Support Apron Assembly L.H		
40	. HB1697F-40	Support Apron Assembly R.H		1
41	. HB1697F-41	Fixing Plate		2
42	. TS-1492051	Hex Head Screw	.M12×50	8
43	. TS-2360121	Plain Washer	.12mm	8
44	. HB1697F-20	Counterweight		2
45	. HB1697F-45	Counterweight Rod		2
		Stand		
		Set Screw		
		Bending Handle		
		Hex Head Screw		
		Socket Head Cap Screw		
		Hold-down Assembly		
		Base Assembly		
		Apron Assembly		
300				

Assembly Drawing





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