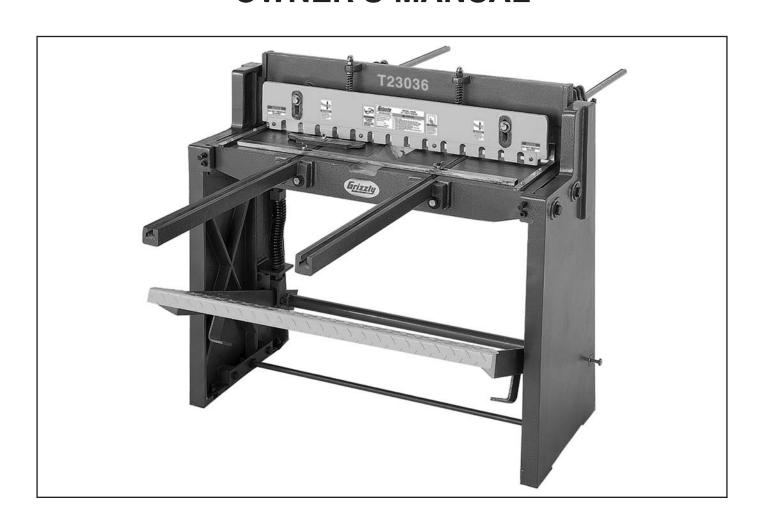


MODEL T23036 37" FOOT SHEAR OWNER'S MANUAL



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WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
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#BL13197 PRINTED IN CHINA



This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

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

The owner of this machine/tool 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, cutting/sanding/grinding tool 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.

WARNING!

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

Manual Accuracy

We are proud to offer this manual with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes errors do happen and we apologize for them.

Also, owing to our policy of continuous improvement, your machine may not exactly match the manual. If you find this to be the case, and the difference between the manual and machine leaves you in doubt, immediately call our technical support for updates or clarification.

For your convenience, we always keep current Grizzly manuals and most updates available on our website at **www.grizzly.com**. Any updates to your machine will be reflected in these documents as soon as they are complete. Visit our site often to check for the latest updates!

Contact Info

We stand behind our machines. If you have any service questions, parts requests or general questions about the machine, please call or write us at the location listed below.

Grizzly Industrial, Inc. 1203 Lycoming Mall Circle Muncy, PA 17756 Phone: (570) 546-9663 Fax: (800) 438-5901

E-Mail: techsupport@grizzly.com

If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.

c/o Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Functional Overview

A foot shear is a machine that uses the operator's body weight to cut sheet metal. A stationary blade is mounted to the machine base and a moving blade is connected to a foot lever. These two blades pass by each other, creating a shearing action.

To cut a sheet metal workpiece on the Model T23036, the operator places the workpiece on the machine table, aligning the desired cut line with the shear blades. The operator then presses down on the foot pedal. This action lowers the hold-down, securing the position of the workpiece. As the foot pedal is pressed further down, the upper blade passes through the workpiece, cutting it into two pieces.

For large workpieces, the Model T23036 is equipped with front and rear extension arms. These arms provide additional support for ease of use and safety during operation. In addition to this support, they also provide mounting points for work stops that can be used when creating repetitive cuts. Once positioned, these eliminate the need for measuring and marking the workpiece.

Identification

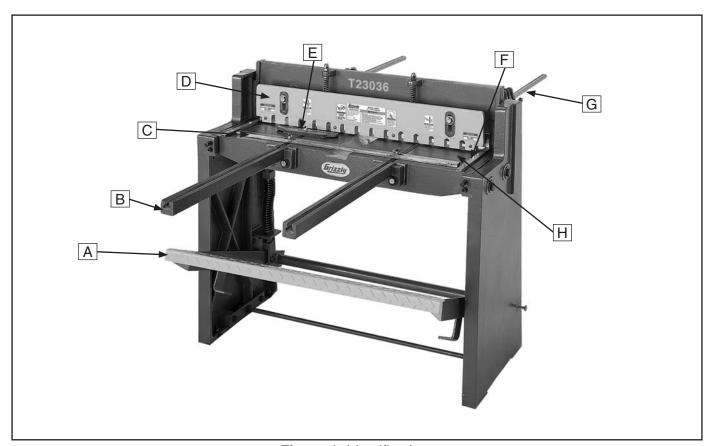


Figure 1. Identification.

- **A.** Foot Pedal
- B. Front Extension Arm
- **C.** Front Stop
- **D.** Hold-down
- E. Bevel Stop
- **F.** Scale
- G. Rear Extension Arm
- H. Table



Product Dimensions:

MACHINE DATA SHEET

Customer Service #: (570) 546-9663 • To Order Call: (800) 523-4777 • Fax #: (800) 438-5901

MODEL T23036 37" FOOT SHEAR

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Shipping Dimensions:
Type Wood Crate Content Machine Weight 923 lbs. Length/Width/Height 54"L x 40"W x 45"H
Capacities:
Maximum Width
Construction
Shear Blades

Features:

-4-

Front Stops & Micro Adjustable Rear Stops Front Extension Arms

SECTION 1: SAFETY

AWARNING

For Your Own Safety, Read Instruction **Manual Before Operating this Machine**

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



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

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

ACAUTION Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the machine.

WARNING **Safety Instructions for Machinery**

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine. Untrained users can be seriously hurt.

EYE PROTECTION. Always wear ANSIapproved safety glasses or a face shield when operating or observing machinery. to reduce the risk of eye injury or blindness from flying particles Everyday eyeglasses are not approved safety glasses.

HAZARDOUS DUST. Dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, and always wear a NIOSH-approved respirator to reduce your risk.

WEARING PROPER APPAREL. Do not wear clothing, apparel, or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips which could cause a loss of workpiece control.

HEARING PROTECTION. Always wear hearing protection when operating or observiing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

MENTAL ALERTNESS. Be mentally alert when running machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

AWARNING Safety Instructions for Machinery

DISCONNECTING POWER SUPPLY. Always disconnect machine from power supply before servicing, adjusting, or changing cutting tools (bits, blades, cutters, etc.). Make sure switch is in OFF position before reconnecting to avoid an unexpected or unintentional start.

INTENDED USE. Only use the machine for its intended purpose and only use recommended accessories. Never stand on machine, modify it for an alternative use, or outfit it with non-approved accessories.

STABLE MACHINE. Unexpected movement during operations greatly increases the risk of injury and loss of control. Verify machines are stable/secure and mobile bases (if used) are locked before starting.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

GUARDS & COVERS. Guards and covers can protect you from accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly before using machine.

REMOVING TOOLS. Never leave adjustment tools, chuck keys, wrenches, etc. in or on machine—especially near moving parts. Verify removal before starting!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

DANGEROUS ENVIRONMENTS. Do not use machinery in wet locations, cluttered areas, around flammables, or in poorly-lit areas. Keep work area clean, dry, and well lighted to minimize risk of injury.

APPROVED OPERATION. Untrained operators can be seriously hurt by machinery. Only allow trained or properly supervised people to use machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make workshop kid proof!

CHILDREN & BYSTANDERS. Keep children and bystanders a safe distance away from work area. Stop using machine if children or bystanders become a distraction.

FEED DIRECTION. Unless otherwise noted, feed work against the rotation of blades or cutters. Feeding in the same direction of rotation may pull your hand into the cut.

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. A secured workpiece protects hands and frees both of them to operate the machine.

UNATTENDED OPERATION. Never leave machine running while unattended. Turn machine *OFF* and ensure all moving parts completely stop before walking away.

MAINTENANCE & INSPECTION. A machine that is not properly maintained may operate unpredictably. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. Regularly inspect machine for loose bolts, alignment of critical parts, binding, or any other conditions that may affect safe operation. Always repair or replace damaged or misadjusted parts before operating machine.

EXPERIENCING DIFFICULTIES. If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact our Technical Support Department at (570) 546-9663.

Additional Safety for Foot Shears

AWARNING

GUARDS. Keep all guards in place and in working order.

FOOTING. Never stand on the foot pedal with both feet. Keep one foot on the ground at all times to maintain your balance. Never jump on the foot pedal to make a cut.

HANDS AND FINGERS. Always keep hands and fingers away from the blade and hold-down.

OPERATOR POSITION. Keep all body parts out of the way of all moving parts. Serious pinches and cuts could occur.

CAPACITY. Never exceed the rated capacity for this foot shear.

PROPER USE. Only use the foot shear for the purpose it was designed. DO NOT cut round stock.

EXTENSION ARMS. Always be aware of the extension arm location when working around the shear to avoid walking into them, causing injury and damage to the tool.

COMFORTABLE CUTTING OPERATIONS. Avoid awkward operations and hand positions where a sudden slip could cause your hand or body to fall into a sharp edge or corner.

EXPERIENCING DIFFICULTIES. If at any time you are experiencing difficulties performing the intended operation, stop using the shear! Contact Tech Support at (570) 546-9663.

BLADE ADJUSTMENTS AND MAINTENANCE. Always keep blades properly adjusted and sharp.

AWARNING

Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

ACAUTION

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

-7-

SECTION 2: SET UP

Setup Safety



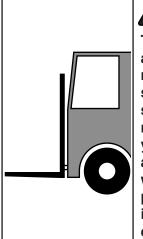
AWARNING

This machine presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the machine!



WARNING

Wear safety glasses during the entire set up process!



WARNING

The Model T23036 is an extremely heavy machine. Serious personal injury may occur if safe moving methods are not followed. To be safe, you will need assistance and power equipment when moving the shipping crate and removing the machine from the crate.

Items Needed for Setup

The following items are needed to complete the set up process, but are not included with your machine:

Description	Qty
Forklift (rated for at least 1000 lbs.)	1
Lifting Straps (rated for at least 1000 lbs.)	2
Assistant	1
Safety Glasses (for each person)	1
Wrenches 21, 24mm	1 Ea.

Unpacking

The Model T23036 was carefully packed when it left our warehouse. If you discover the machine is damaged after you have signed for delivery, please immediately call Customer Service at (570) 546-9663 for advice.

Save the containers and all packing materials for possible inspection by the carrier or its agent. Otherwise, filing a freight claim can be difficult.

When you are completely satisfied with the condition of your shipment, you should inventory the contents.

Inventory

The following is a description of the main components shipped with your machine. 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 shipping purposes.

Inv	entory: (Figure 2)	Qty
Α.	Foot Shear (Not Shown)	1
В.	Pedal Assembly	1
C.	Hex Bolts M14-2 x 50 (Pedal Assembly)	2
D.	Hex Nuts M14-2 (Pedal Assembly)	2
E.	Bevel Gauge (w/Hardware)	1
	Rear Extension Arms	
	w/Adjustable Stops	2
G.	Front Extension Arms	
H.	Rear Stop (w/Hardware)	1
	Front Stop (w/Hardware)	

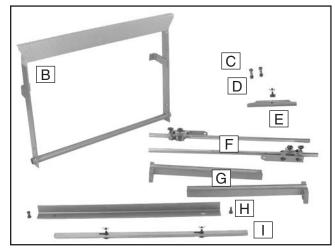
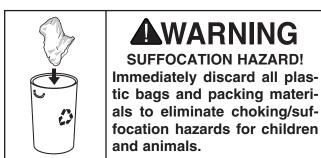


Figure 2. Loose parts inventory.

If any nonproprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.



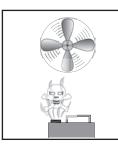
Clean Up

The unpainted surfaces are coated with a waxy oil to prevent corrosion during shipment. Remove this protective coating with a solvent cleaner or degreaser, such as shown in **Figure 3**. For thorough cleaning, some parts must be removed. **For optimum performance, clean all moving parts or sliding contact surfaces.** Avoid chlorine-based solvents, such as acetone or brake parts cleaner that may damage painted surfaces. Always follow the manufacturer's instructions when using any type of cleaning product.



▲WARNING

Gasoline and petroleum products have low flash points and can explode or cause fire if used to clean machinery. DO NOT use these products to clean the machinery.



ACAUTION

Many cleaning solvents are toxic if inhaled. Minimize your risk by only using these products in a well ventilated area.

G2544—Solvent Cleaner & Degreaser H9692—Orange Power Degreaser

Great products for removing shipping grease.



Figure 3. Cleaner/degreasers available from Grizzly.

Site Considerations

Floor Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some residential floors may require additional reinforcement to support both the machine and operator.

Placement Location

Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your new machine. See **Figure 4** for the minimum working clearances.

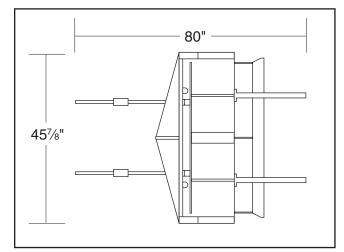
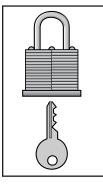


Figure 4. Minimum working clearances.



ACAUTION

Children and visitors may be seriously injured if unsupervised around this machine. Lock entrances to the shop or disable start switch or power connection to prevent unsupervised use.

Moving & Placement

The Model T23036 is a heavy machine. A forklift or other lifting device will be needed to lift the shear off of the pallet. Place lifting straps under the table and connect them to the forklift forks. Have a helper nearby to assist and stabilize the shear while you lift it, as shown in **Figure 5**.

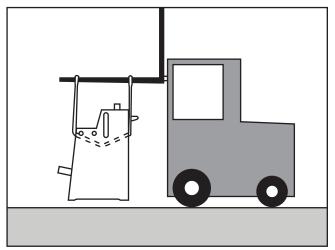


Figure 5. Lifting the foot shear.

Mounting to Shop Floor

The Model T23036 must be mounted to the floor to avoid accidental tipping during use. Because floor materials vary, floor mounting hardware is not included. Whichever option you choose, it is necessary to level your machine with a precision level.

Lag shield anchors with lag bolts and anchor studs (**Figure 6**) are two popular methods for anchoring an object to a concrete floor. We suggest you research the many options and methods for mounting your machine and choose the best that fits your specific application.

NOTICE

Anchor studs are stronger and more permanent alternatives to lag shield anchors; however, they will stick out of the floor, which may cause a tripping hazard if you decide to move your machine.

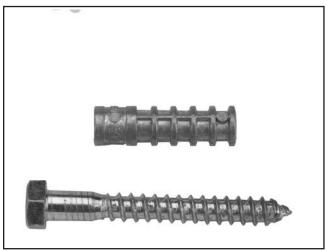


Figure 6. Typical fasteners for mounting to concrete floors.

Assembly

Assembling the Model T23036 consists of installing the foot pedal assembly and the front and rear extension arms assemblies. Installation of the extension arms is an optional step that is dependent on the operations you plan to perform.

To assemble the foot shear:

1. At the lower rear of the machine, loosen the set screws that hold the hinge pins in place and slide them outward (**Figure 7**).

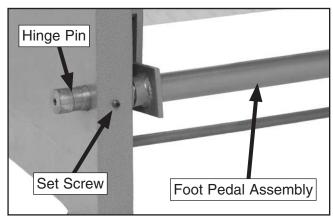


Figure 7. Hinge pin & foot pedal.

- With the help of an assistant, align the foot pedal assembly with the hinge pin and slide the hinge pin back in.
- **3.** Tighten the set screws to hold the hinge pins in position.
- **4.** Attach the two blade yokes to the arms of the foot pedal with the M14-2 x 50 bolts, washers and nuts, and tighten in position (**Figure 8**).

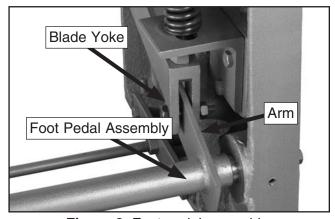


Figure 8. Foot pedal assembly.

- 5. Loosen, but do not remove the four 19mm hex bolts on the front of the table.
- Place the front extension arms over the hex bolts and behind the special washers (Figure 9).

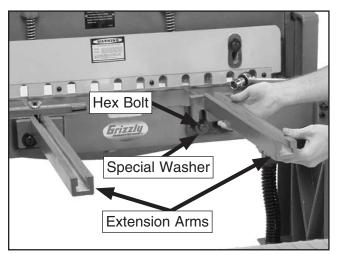


Figure 9. Front extension arm installed.

- 7. Line up the channel of the front extension arm with the channel on the table.
- **8.** Make sure the ground flat surface on the front extension arms is flush with the top of the table surface.
- Tighten the hex bolts and check to make sure the alignment is still intact. If it is not, re-adjust as necessary.
- 10. Slide the front work stop into the extension arms. When the foot pedal, front extension arms, and work stops are installed, the machine should look like Figure 10.

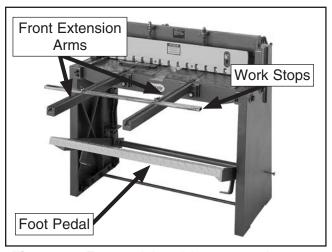


Figure 10. Foot pedal and front extension arms.

To install the rear extension arms (optional):

- 1. With the scales facing up, slide the rear extension arms into the holes in the back of the blade assembly.
- 2. Tighten the set screws (Figure 11).

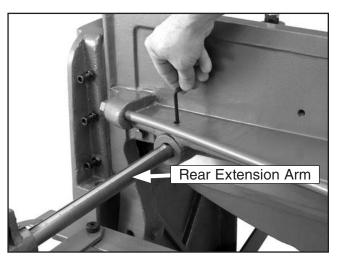


Figure 11. Installing rear extension arm.

3. Attach the rear stop to the rear extension bars and secure with the knurled thumb screws (**Figure 12**).

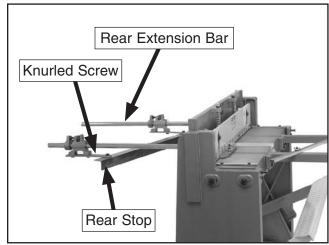
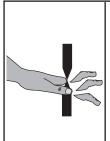


Figure 12. Installing rear extension bars.

SECTION 3: OPERATIONS

Operation Safety



ADANGER

CRUSHING AND SEVERING HAZARD!

Keep hands and fingers out of hold-down and blade path when shearing or serious injury will occur!



AWARNING

To reduce the risk of serious injury when using this machine, read and understand this entire manual before beginning any operations.

WARNING

Bodily injury could result from using this machine. Always wear safety goggles, leather work boots, and heavy duty leather work gloves when operating this machine or whenever handling metal.







NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY RECOMMEND that you read books, trade magazines, or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

Basic Controls

Use **Figures 13–14** and the descriptions below to familiarize yourself with the basic operations of the machine.

Foot Pedal: Lowers the top blade downward when stepped upon.

Front and Rear Extension Arms: Support large workpieces and provide mounting points for the stops.

Front and Rear Stops: Align workpieces when performing repetitive operations.

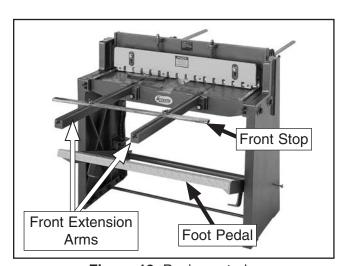


Figure 13. Basic controls.

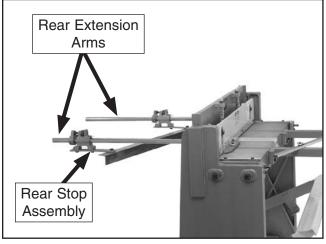


Figure 14. Basic controls (continued).

Stops & Guides

The front stop and angle guide are quickly adjusted by wing nuts on the top of the stops. The rear extension arms have micro-adjusting stops (**Figure 15**) that allow you to fine tune your cut length. For the most accurate cuts, make sure that you have at least one square edge up against a stop.

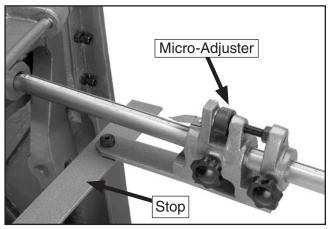


Figure 15. Micro-adjusting stop.

Operation Overview

To use the foot shear:

- 1. Mark the workpiece along the line to be cut.
- 2. Place the workpiece on the table and adjust it so that the line made in **Step 1** is aligned with the edge of the bottom blade.
 - —If you are making repetitive cuts, place a stop against the workpiece. For each cut that follows, place the workpiece against the stop to create the same cut.
- 3. Step down on the foot pedal until the cut is complete.
 - —If the workpiece is longer than the extension arms can support, have an assistant wear heavy leather gloves and boots and support the workpiece while it is cut, so it doesn't fall to the floor and get damaged.

Shearing Tips

- For the best results, never cut any piece narrower than eight times the thickness of the material. For example ½" strip of 0.06" mild steel.
- Keep the blade gap to the smallest distance possible.
- The table below lists other materials and the equivalent decimal thicknesses that can be used on this shear.

	,		i
	16 GA.	18 GA.	20 GA.
Mild Steel	0.060"	0.048"	0.036"
Stainless			0.031"
Cold Rolled	0.048"	0.035"	0.030"
Aluminum	0.100"	0.090"	0.063"
Brass, Yellow			
Soft	0.072"	0.064"	0.051"
• 1/2 Hard	0.064"	0.051"	0.036"
Hard	0.054"	0.051"	0.036"
Bronze, Phosphor			
Annealed	0.064"	0.051"	0.040"
Copper			
• Soft	0.072"	0.064"	0.051"
Hard	0.064"	0.051"	0.040"

Figure 16. Equivalent material thickness chart.

Finger Guard

A clear plastic finger guard is fixed to the front of the hold-down. Under no circumstances should this guard be removed. It will keep your fingers away of the blades but it will *NOT* protect you from the crushing force of the hold-down. Never put any part of your body under or behind this finger guard! Be sure to keep the guard in working order and maintain the position and readability of all the warning labels.

Hold-Down Adjustment

The hold-down functions as a safety device to secure the workpiece while it is being sheared and to help prevent the operator's fingers from getting in the blade cutting path. The hold-down must be adjusted properly to perform these functions.

The ideal adjustment provides only enough clearance to slide the workpiece under the workstop. For practicality and safety, the workstop should be adjusted to provide approximately ½ clearance.

Items N	eeded	Qty.
Stock 1/8	 	1
Socket of	or Wrench 19mm	1

To adjust the hold-down:

1. Tighten the hex nuts on the springs to raise the hold-down off the table (**Figure 17**).

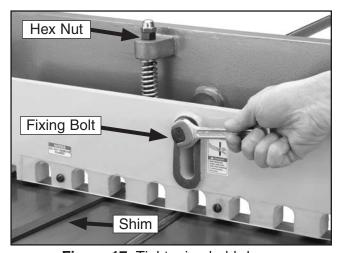


Figure 17. Tightening hold-down.

- 2. Insert the shim stock under the hold-down, then loosen the hex nut to lower the hold-down until it makes contact with the shim.
- 3. Repeat **Step 2** at the other side of the shear.
- **4.** Check the gap to make sure the distance is equal across the length of the hold-down.

Tip: To avoid scratching the surface of your workpiece, apply thin rubber pads to the bottom of the hold-down fingers.

Blade Adjustment

The blade adjustment has been made at the factory before shipment. A few test cuts will determine if this adjustment is satisfactory for your needs. If it is, you are ready to start using your foot shear. However, you may find it necessary to check the blade adjustment before continuing. Depending on how often you change the type and gauge of material you cut, this adjustment process may become routine.

Tools Required	Qty.
Socket or Wrench 24mm	1
Hex Wrench 8mm	1
Feeler Gauge 0.002"	1

To perform the blade adjustment:

 Loosen, but do not remove the two table bolts and table adjustment screws on both sides of the foot shear (see Figure 18).

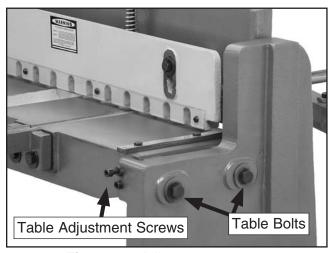


Figure 18. Adjustment screws.

- Using the foot pedal, lower the blade and hold it in position. (It may help to have your assistant do this step.)
- Turn the table adjustment screws to move the table and fixed blade until the fixed blade makes light contact with the moving blade.

NOTICE: The moving blade should never overlap the fixed blade. This will cause damage to both.

- **4.** Looking behind the hold-down, make sure the two blades surfaces appear to make light contact all the way across the length.
 - —If they do, proceed to the next step.
 - —If you observe a gap between the two blade surfaces, move to the next section Adjusting Blade Bow section.
- 5. Using a sheet of paper, confirm that you have proper contact by making several cuts along the length of the blade. The shear should cut through the paper cleanly.
- 6. Turn the table adjustment screws to move the fixed blade away from the moving blade so you have a gap of 0.002". Check this measurement with a feeler gauge as shown in Figure 19.

Note: 0.002" is a good starting point for most operations. The gap width will change, however, depending on the type and gauge of the material being sheared. This is a trial-and-error process. Test with scrap pieces until you achieve satisfactory results.



Figure 19. Measuring gap between blades.

- 7. Repeat **Step 6** on the other side so the gap is uniform across the length of the blade.
- **8.** Tighten the four table bolts and double check the gap to make sure it has not changed.

SECTION 4: ACCESSORIES

AWARNING

Some aftermarket accessories can be installed on this machine that could cause it to function improperly, increasing the risk of serious personal injury. To minimize this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to the newest copy of the Grizzly Catalog for other accessories available for this machine.

Call 1-300-523-4777 To Order

G5618—Deburring Tool with two Blades
G5619—Extra Aluminum Blades

G5620—Extra Brass and Cast Iron Blade

The quickest tool for smoothing freshly sheared metal edges. Comes with two blades, one for steel and aluminum and one for brass and cast iron.



Figure 20. G5618 Deburring tool.

H5614—Wire Gauge US Standard

Calibrated for sheet metal sized from 0 to 30 gauge. The front is marked with gauge sizes, the back is marked with actual inch measurements.



Figure 22. H5614 Wire Gauge.

H5958—Sheet Metal Pliers

For bending and forming sheet metal. Jaws are 3½" wide. Rubber grips. Overall length is 8". Ideal for HVAC Installers.



Figure 23. Model H5958 Sheet Metal Pliers.

G4956—Super Nibbler

The super nibbler is just the ticket for cutting sheet metal up to $\frac{3}{64}$ " thick. Extremely narrow headed design allows cuts in hard-to-reach areas, yet still features a safety guard to prevent flying splinters. $10\frac{1}{4}$ " overall.



Figure 24. Model G4956 Super Nibbler.

G5562—SLIPIT® 1 Qt. Gel G5563—SLIPIT® 12 oz Spray G2871—Boeshield® T-9 12 oz Spray G2870—Boeshield® T-9 4 oz Spray H3788—G96® Gun Treatment 12 oz Spray H3789—G96® Gun Treatment 4.5 oz Spray



Figure 21. Recommended products for protecting unpainted cast iron/steel part on machinery.

G8781—4½" Suction Cup

Handle plate glass, glass mirrors and sheet metal with safety and security. Simple hand lever action provides tremendous gripping power on any flat, smooth material. Buy two Suction Cups for two-handed control!



Figure 25. Model G8781 41/2" Suction Cup.

Gall 1-800-523-4777 To Order

SECTION 5: MAINTENANCE



AWARNING

Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

Schedule

For optimum performance from your machine, follow this maintenance schedule and refer to any specific instructions given in this section.

Daily Check:

-20-

- Loose mounting bolts.
- Any other unsafe condition.

Weekly Maintenance:

- Clean machine.
- Lubricate machine.

Cleaning

Cleaning the Model T23036 is relatively easy. Periodically wipe down the machine to remove dust and oil. Treat all unpainted surfaces with a non-staining lubricant after cleaning.

Lubrication

Lubricate all pivot and sliding points on this machine daily. Lightly oil the surface of the blades and other bare cast iron surfaces to ensure they don't develop rust.

Unpainted Cast Iron

Protect the unpainted cast iron surfaces on the table by wiping the table clean after every use—this ensures moisture from wood dust does not remain on bare metal surfaces.

Keep tables rust-free with regular applications of products like G96® Gun Treatment, SLIPIT®, or Boeshield® T-9 (see **Section 5: Accessories** on **Page 19** for more details).

SECTION 6: SERVICE

Review the troubleshooting and procedures in this section to fix your machine if a problem develops. If you need replacement parts or you are unsure of your repair skills, then feel free to call our Technical Support at (570) 546-9663.

Troubleshooting

Operations

Symptom	Possible Cause Possible Solution	
Won't cut	Improper blade gap distance.	1. Widen gap to accommodate thicker gauge material.
material.	2. Cut exceeds machine capacities.	2. Make cuts within the capacity of the machine.
Cuts aren't	Blade gap unequal across length.	1. Adjust blade gap to be equal across length (Page
square.		16).
	2. Too much bow in blade.	2. Correct blade bow (Page 22).
	3. Inadequate hold-down pressure.	3. Adjust gap of hold-down (Page 16).
	4. Uneven contact with guides.	4. Maintain consistent contact with guides.
Poor quality of	1. Dull blades.	1. Replace or sharpen blades.
cuts, ripping or	2. Poor blade gap set up.	2. Adjust blade set up (Page 16).
tearing.	3. Loose gibs.	3. Remove play from gibs (Page 22).

-21-

Adjusting Blade Bow

Tools Required Qty. Open-end Wrench 24mm.....1

The blade bow of the moving blade is adjusted by loosening or tightening the bow bolt at the center of the straightening rod (see **Figure 27**.) Observe the change in the gap when the moving blade is just below the top of the fixed blade. For optimum performance, the gap must be consistent across the entire length of the blades. After making adjustments to the bow, repeat the **Blade Adjustment** section. Perform a paper shear test to check the blade bow performance.

- —If the shear cuts paper on the ends but not the center, turn the bow bolt clockwise until paper can be easily cut across the length.
- —If the shear cuts paper at the center but not the ends, turn the bow bolt counterclockwise until the paper can be easily cut across the length.



Figure 26. Example of a paper shear test.

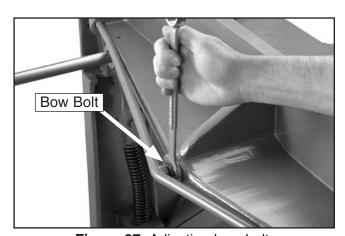


Figure 27. Adjusting bow bolt.

Gib Adjustment

Tools Required	Qty.
Hex Wrench 8mm	1
Open-end Wrench 14mm	2

When adjusting gibs, keep in mind that the goal of gib adjustment is to remove unnecessary slide movement without causing them to bind. Loose gibs may allow play in the moving blade resulting in poor cuts on the workpiece and undue wear on the slide. Over-tightening will make lowering the foot pedal difficult.

Loosen the jam hex nuts, tighten each gib screw until it is just snug, then loosen it $\frac{1}{8}$ of a turn. Tighten the jam nuts against the machine base to secure the gib screw setting

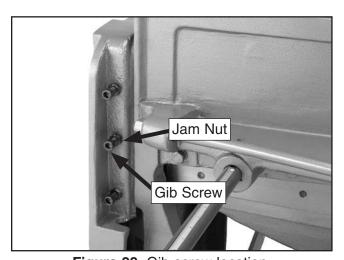


Figure 28. Gib screw location.

Blade Sharpening/ Replacement

Tools Required	Qty.
Socket or Wrench 17mm	1

The blades can be removed by removing the hex bolts that attach the blades to the castings (see **Figure 29**).

The moving blade has two cutting edges that are ground with a 2° edge relief. Reverse the blade to expose the new cutting edge as soon as one edge is dull. The blade can be sharpened on a surface grinder by grinding both wide sides of the blade.

The fixed blade has one cutting edge with a 2° edge relief and a 1° face relief. It can be resharpened on a surface grinder by grinding the wide side of the blade.

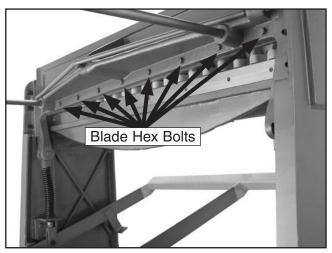
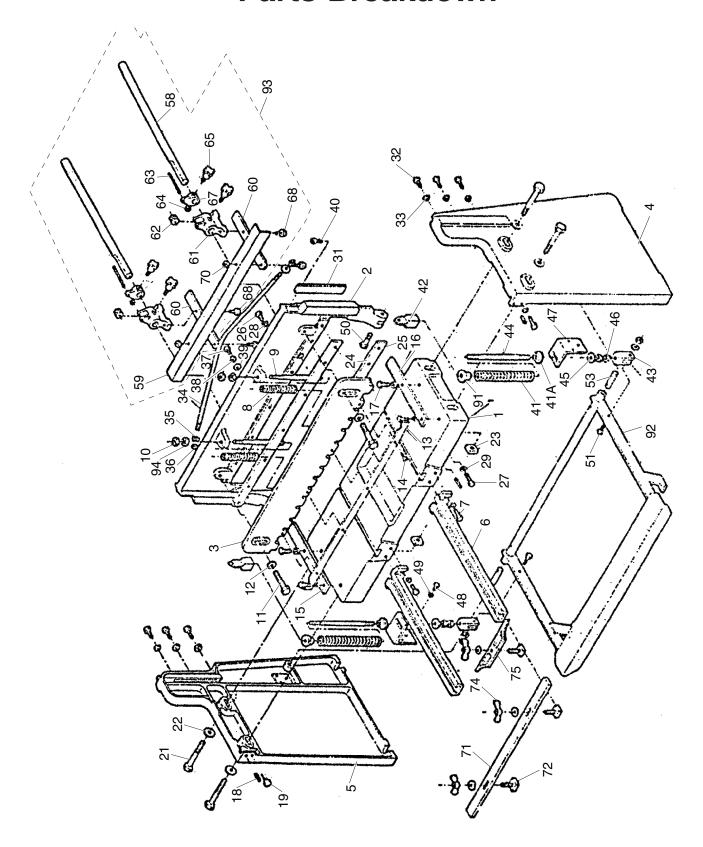


Figure 29. Top blade bolts (typical foot shear shown).

After new blades are installed or old blades are sharpened, they must be adjusted. Proceed to **Blade Adjustment** on **Page 16**.

SECTION 7: PARTS

Parts Breakdown



Parts List

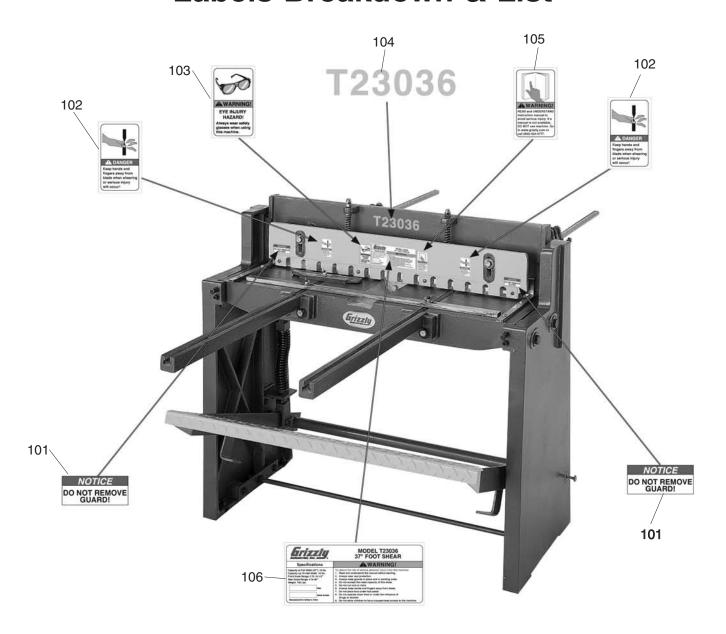
REF PART # DESCRIPTION

111	PARI#	DESCRIPTION
1	PT23036001	TABLE
2	PT23036002	CUTTER BAR
3	PT23036003	HOLDDOWN
4	PT23036004	RIGHT SIDE PANEL
5	PT23036005	LEFT SIDE PANEL
6	PT23036006	FRONT EXTENSION ARM
7	PB24M	HEX BOLT M12-1.75 x 45
8	PT23036008	HOLDDOWN SPRING
9	PT23036009	HOLDDOWN SHAFT
10	PN09M	HEX NUT M12-1.75
11	PT23036011	SPECIAL BOLT
12	PT23036012	SPECIAL WASHER 12MM
13	PT23036013	FINGER GUARD
14	PSB58M	CAP SCREW M8-1.25 x 12
15	PT23036015	LEFT TABLE SCALE
16	PT23036016	RIGHT TABLE SCALE
17	PB09M	HEX BOLT M8-1.25 X 20
18	PSS39M	SET SCREW M10-1.5 X 50
19	PSB47M	CAP SCREW M10-1.5 X 40
21	PT23036021	SPECIAL BOLT M16-2 X 100
22	PW08M	FLAT WASHER 16MM
23	PT23036023	SPECIAL NUT M16-2
24	PT23036024	TOP BLADE
25	PT23036025	BOTTOM BLADE
26	PSB47M	CAP SCREW M10-1.5 X 40
27	PSB90M	CAP SCREW M10-1.5 X 55
28	PW04M	FLAT WASHER 10MM
29	PW04M	FLAT WASHER 10MM
31	PT23036031	GIB
32	PSB143M	CAP SCREW M10-1.5 X 50
33	PN02M	HEX NUT M10-1.5
34	PT23036034	STRAIGHTENER ROD
35	PW08M	FLAT WASHER 16MM
36	PN05M	HEX NUT M16-1.5
37	PT23036037	ADJ SCREW STRAIGHTENER ROD

REF PART # DESCRIPTION

		DECOMM MON
38	PN05M	HEX NUT M16-1.5
39	PW08M	FLAT WASHER 16MM
40	PSS10M	SET SCREW M10-1.5 X 20
41	PT23036041	COMPRESSION SPRING
41A	PT23036041A	SPRING CAP
42	PT23036042	SWIVEL TOP
43	PT23036043	SWIVEL BOTTOM
44	PT23036044	SPRING STUD
45	PW08M	FLAT WASHER 16MM
46	PN13M	HEX NUT M16-2
47	PT23036047	SPRING MOUNTING BRACKET
48	PSB64M	CAP SCREW M10-1.5 X 25
49	PW04M	FLAT WASHER 10MM
50	PT23036050	SPECIAL BOLT M12 X 70
51	PT23036051	SPECIAL BOLT M12 X 50
53	PT23036053	FOOT PEDAL SHAFT
58	PT23036058	REAR EXTENSION ARM
59	PT23036059	REAR STOP
60	PT23036060	REAR STOP BRACKET
61	PT23036061	REAR STOP BLOCK
62	PT23036062	ADJUSTER DIAL
63	PT23036063	ADJUSTER SHAFT
64	PN08M	HEX NUT M10-1.25
65	PT23036065	LOCK KNOB M8-1.25 X 25
67	PT23036067	ADJUSTER BLOCK
68	PT23036068	KNURLED SCREW M10-1.5 X 12
70	PN02M	HEX NUT M10-1.5
71	PT23036071	FRONT STOP
72	PT23036072	T BOLT M10-1.5 X 45
74	PWN04M	WING NUT M10-1.5
75	PT23036075	BEVEL GAUGE
91	PT23036091	TOP SPRING CAP
92	PT23036092	PEDAL FRAME
93	PT23036093	BACK GAUGE ASSEMBLY
94	PW06M	FLAT WASHER 12MM

Labels Breakdown & List



REF	PART #	DESCRIPTION

101	PT23036101	1 GUARD REMOVAL LABEL	
102	PT23036102	SHEARING HAZARD LABEL	
103	PLABEL-11B	SAFETY GLASSES LABEL	

REF PARI# DESCRI	PHON	
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104	PT23036104	MODEL NUMBER LABEL	
105	PLABEL-12C	READ MANUAL LABEL	
106	PT23036106	MACHINE ID LABEL	

WARNING

Safety labels warn about machine hazards and ways to prevent injury. The owner of this machine MUST maintain the original location and readability of the labels on the machine. If any label is removed or becomes unreadable, REPLACE that label before using the machine again. Contact Grizzly at (800) 523-4777 or www.grizzly.com to order new labels.

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Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly'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 or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly 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.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.



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