



# MODEL T27140 12" HEAVY-DUTY BENCH SHEAR INSTRUCTIONS

For questions or help with this product contact Tech Support at (570) 546-9663 or techsupport@grizzly.com

## Introduction

The Model T27140 uses compound lever action to cut up to 12" wide sheet metal. It includes an adjustable work stop for repeat cuts with workpieces up to 6" long and a built-in 12" ruler on the table graduated in 10ths of an inch.

## Specifications

Maximum Cut Length .....	12"
Cutting Capacities (Thickness):	
Steel .....	0.020"
Aluminum.....	0.050"
Brass .....	0.025"
Weight .....	34 lbs.



Figure 1. Model T27140.

## **!**WARNING

1. Overloading this tool can cause injury from flying parts if tool breaks. Do not exceed tool capacities.
2. NEVER operate bench shear without plastic safety guard in place.
3. Always chamfer and de-burr sharp sheet metal edges after cutting. Sharp edges on sheet metal can result in severe cuts.
4. NEVER place your fingers or hands between shear blades. Amputation or severe cuts can easily occur!
5. Always wear leather gloves and approved safety glasses when using this tool.
6. Inspect bench shear for any cracked components or loose fasteners. Correct any problems before use. Loose hardware or cracks could result in sudden, unexpected movements during use.
7. DO NOT allow children to have unsupervised access to bench shear.

## **!**WARNING

Damage to your eyes and hands could result from using this tool without proper protective gear. Always wear safety glasses and heavy gloves when operating this tool.



## **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.

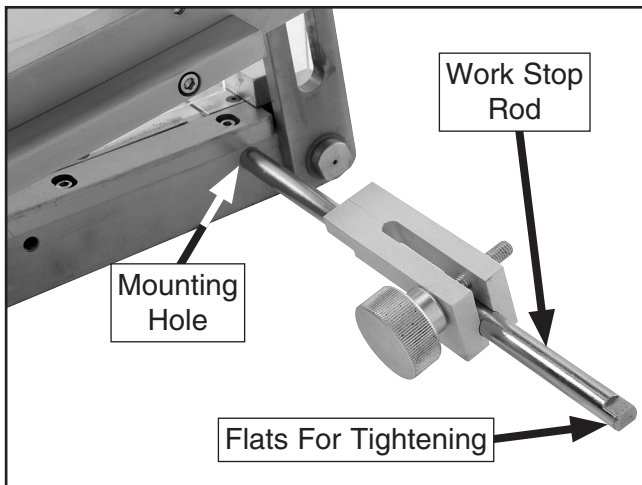
## Inventory

Description	Qty
A. Bench Shear.....	1
B. Work Stop Assembly.....	1

## Assembly

The Model T27140 comes fully assembled, except for the optional work stop assembly.

To install work stop, insert threaded end of work stop rod into mounting hole on bench shear, and tighten using 8mm wrench on flats of rod end (see **Figure 2**).



**Figure 2.** Work stop assembly installed.

## Operations

1. Mark cut line on workpiece.
2. Lift handle to open shear blades, then align shear blades with cut line.

### **!WARNING**

Injury to your hands and fingers could result from improper use of this tool. Never place your hands or fingers in path of blade while using this tool. Never use tool without safety guard in place.

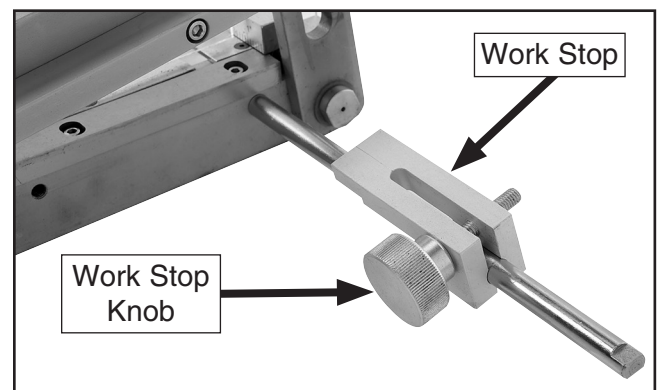
3. Use left hand to hold workpiece steady on table and lower handle with right hand to perform cut.

## Using Work Stop

The Model T27140 is equipped with a work stop that makes it quick and easy for you to make repeat cuts of the same size.

### To use work stop:

1. Lift handle to open shear blades, then align shear blades with cut line marked on workpiece.
2. Slide work stop against workpiece and tighten work stop knob (see **Figure 3**).



**Figure 3.** Location of work stop and knob.

3. For subsequent cuts, place workpiece on table and slide against work stop, then proceed with cut.



## Cleaning

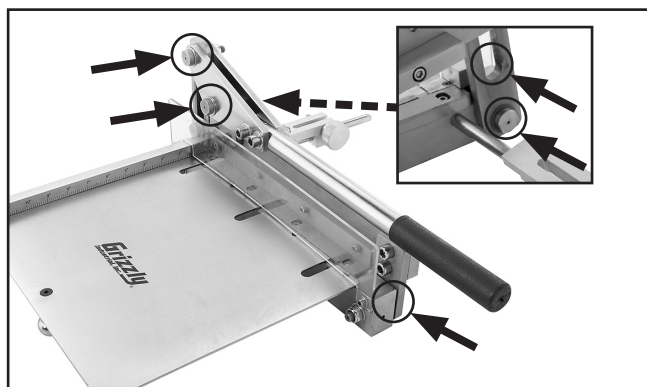
Periodically wipe down the tool with a cleaner, such as Grizzly Model **T23692 Orange Power Degreaser**, to remove dust and oil.

## Lubrication

Lubricating the Model T27140 consists of applying oil to the pivoting and sliding surfaces.

### To lubricate machine:

1. Apply 3–4 drops of lubricant, such as Grizzly Model **T26685 Moly-D Multi-Function Machine Oil-ISO 32**, to areas indicated in **Figure 4** so that oil penetrates between sliding surfaces. Raise and lower handle several times to disperse oil.



**Figure 4.** Lubrication locations (left side shown).

2. Wipe up any excess oil to prevent dust and grime build-up.

## Adjusting Blade

The fixed (lower) blade on the Model T27140 is adjustable to allow for different materials and to compensate for wear to the blades. The blade position is factory set and only needs to be adjusted if there is excessive binding between the fixed and moving blade or if a gap exists between the blades that causes the workpiece to bend, rather than shear between the blades.

The ideal blade adjustment will vary depending on the material and dimensions of your workpiece. Above all, make sure the fixed blade is parallel with the moving blade and contacts it evenly along the entire width.

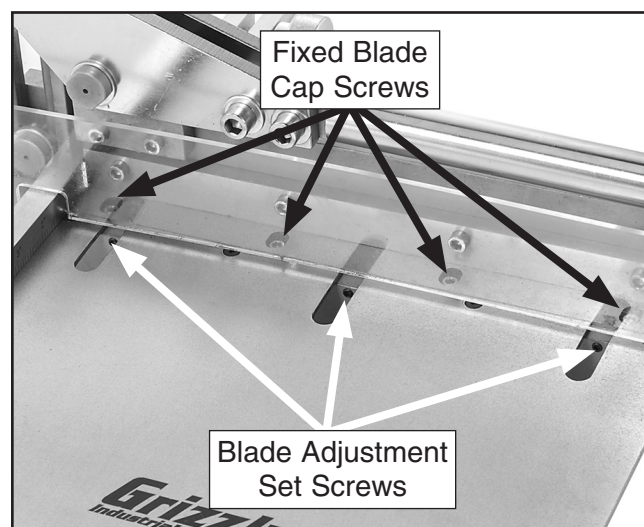
### Tools Needed:

Qty

Hex Wrench 4mm.....	1
Hex Wrench 2.5mm.....	1

### To adjust blade:

1. Remove blade guard.
2. Loosen, but do not remove, the four fixed blade cap screws (see **Figure 5**).

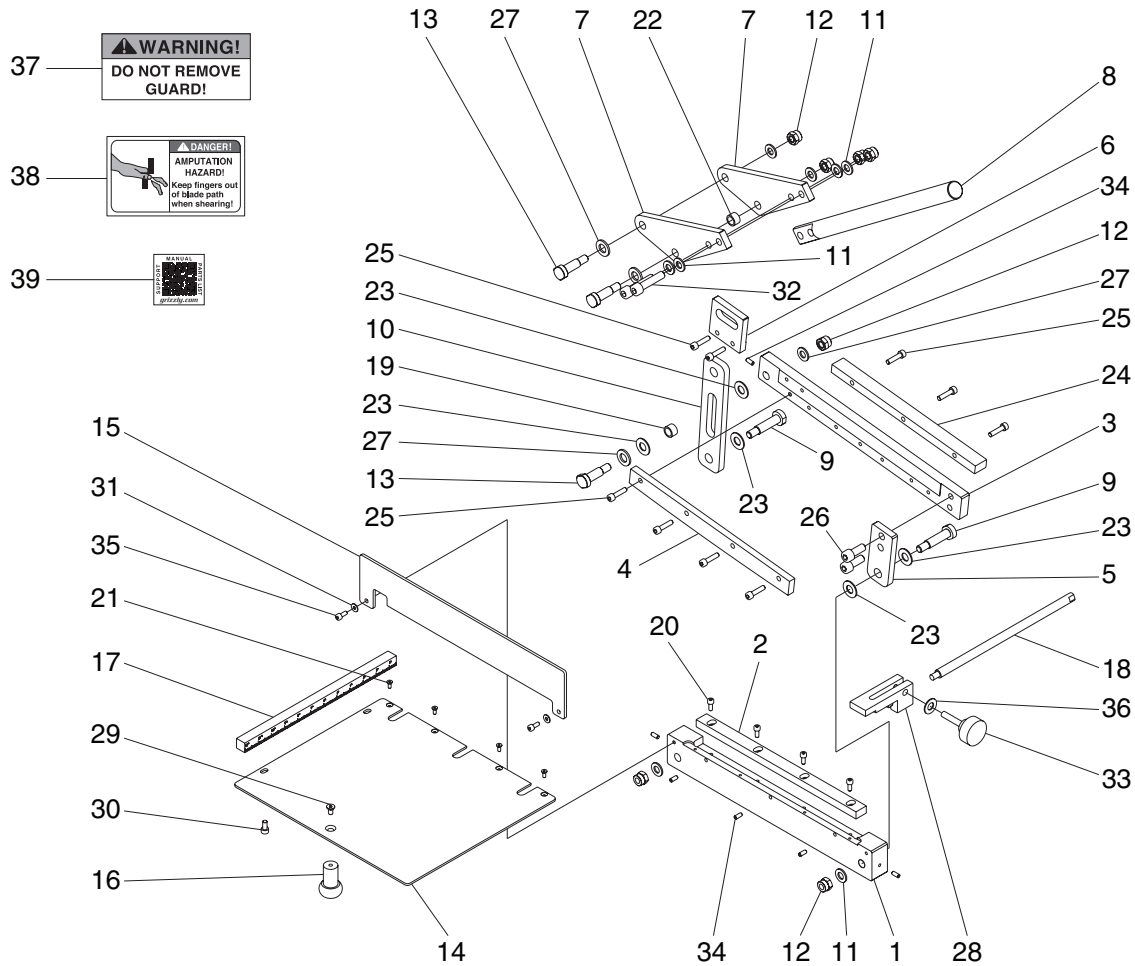


**Figure 5.** Blade adjustment components.

3. Rotate blade adjustment set screws with 2.5mm hex wrench to fine-tune position of fixed blade (see **Figure 5**).
  - Turning blade adjustment set screw clockwise moves fixed blade outward, toward moving blade.
  - Turning blade adjustment set screw counterclockwise moves fixed blade inward, away from moving blade.
4. Once fixed blade is set parallel to moving blade, tighten the four fixed blade cap screws, then re-install blade guard.
5. Test performance of shear on scrap workpiece.
  - If results are satisfactory (producing a clean cut with no bending), no further adjustment is necessary.
  - If results are not satisfactory, repeat **Steps 1–5** until results meet your standards.



# T27140 Parts Breakdown and List



REF PART #	DESCRIPTION
1	PT27140001 BLADE BASE (LOWER)
2	PT27140002 BLADE (LOWER)
3	PT27140003 BLADE BASE (UPPER)
4	PT27140004 BLADE (UPPER)
5	PT27140005 BLADE PIVOT PLATE
6	PT27140006 HANDLE PIVOT PLATE
7	PT27140007 CONNECTING PLATE
8	PT27140008 HANDLE
9	PT27140009 SHOULDER SCREW M10-1.5 X 15, 12 X 43
10	PT27140010 SLIDE PLATE
11	PT27140011 FLAT WASHER 10MM
12	PT27140012 LOCK NUT M10-1.5
13	PT27140013 SHOULDER SCREW M10-1.5 X 18, 12 X 30
14	PT27140014 TABLE
15	PT27140015 BLADE GUARD
16	PT27140016 LEG
17	PT27140017 TABLE STOP
18	PT27140018 WORK STOP ROD
19	PT27140019 SLIDE BUSHING
20	PT27140020 CAP SCREW M5-.8 X 12

REF PART #	DESCRIPTION
21	PT27140021 FLAT HD CAP SCR M4-.7 X 10
22	PT27140022 PIVOT BUSHING
23	PT27140023 FLAT WASHER 12MM BRASS
24	PT27140024 BLADE BRACE
25	PT27140025 CAP SCREW M6-1 X 25
26	PT27140026 CAP SCREW M10-1.5 X 25
27	PT27140027 FLAT WASHER 12MM
28	PT27140028 WORK STOP
29	PT27140029 FLAT HD CAP SCR M6-1 X 12
30	PT27140030 CAP SCREW M6-1 X 12
31	PT27140031 FLAT WASHER 5MM
32	PT27140032 CAP SCREW M10-1.5 X 45
33	PT27140033 KNOB BOLT M8-1.25 X 45
34	PT27140034 SET SCREW M5-.8 X 12
35	PT27140035 CAP SCREW M5-.8 X 10
36	PT27140036 FLAT WASHER 8MM
37	PT27140037 DO NOT REMOVE GUARD LABEL
38	PT27140038 AMPUTATION HAZARD LABEL
39	PT27140039 QR CODE LABEL

**Please Note:** We do our best to stock replacement parts whenever possible, but we cannot guarantee that all parts shown here are available for purchase. Call (800) 523-4777 or visit our online parts store at [www.grizzly.com](http://www.grizzly.com) to check for availability.

