



TIRE SERVICE INTERNATIONAL

# TC-60 Tire Bead Notcher

buyTSI.com - 800.223.4540



**READ INSTRUCTIONS THOROUGHLY BEFORE OPERATING**

Tire Service International, LLC  
3451 S. 40TH ST.  
Phoenix, AZ 85040

Office: 602.437.5020  
Email: sales@buytsi.com  
Fax: 602.437.5025

Contact us for any assistance

**800.223.4540**

Revised: March 2024

# General Description

1. The TC-60 Bead Notcher removes unwanted tires from circulation permanently, eliminating any liability.
2. Disables any newly manufactured tire that is defective and/or not intended for use.
3. The TC-60 cuts a 1.5" notch into the bead, making it impossible to mount.
4. Works on all tires up to 11" x 24.5"
5. Constructed of heavy structural steel for years of dependable service.
6. The powerful jaws are made of heat treated tool steel and power by a 3 HP electric motor or 10 HP B&S gas engine.

# Safety Requirements

1. Thoroughly read all safety and operating instructions before using this machine.
2. Only personnel trained in the operation of the TC-60 Tire Bead Notcher should be operating this machine.
3. SAFETY GLASSES ARE REQUIRED
4. Operator and bystanders must be behind the controls prior to engaging cutting operation.
5. HOT SURFACE - do not touch hydraulic parts or tank during or after operation.
6. Do not wear loose clothing.
7. Before each use, visually inspect for loose bolts, fittings, leaking hydraulic fluid, and damaged or improperly assembled accessory equipment.
8. Prepare a clean, level surface with adequate room to maneuver.
9. Never wet engine, motor, switch box or hydraulic controls. Cover these items if machine is to be washed.
10. Always disconnect electrical power before attempting any maintenance.

# Installation Requirements

Standard power is a 220 V, 60 Hz, Single Phase, 13 AMP electric motor

## CAUTION

Electric motor rotation must be clockwise when looking at the fan at the end of the motor. If motor runs counter clockwise, reverse the wires as indicated on the motor plate diagram

# Operating Instructions

## **DANGER**

**When in use, keep hands, clothing and any other objects away from cutter blade**

1. Electric unit connects to a 220 V, 60 Hz, 13 AMP power supply.
2. Turn on switch to start electric hydraulic pump motor.
3. Roll the tire into the cutting jaws.
4. Place bead into jaws as far as possible.
5. Verify only the tire is in the cutting position - clear of any fingers, clothing or other items.
6. Pull valve handle to activate cutting blade.
7. Push the valve to retract cutting blade.
8. The notch should look like the photo below

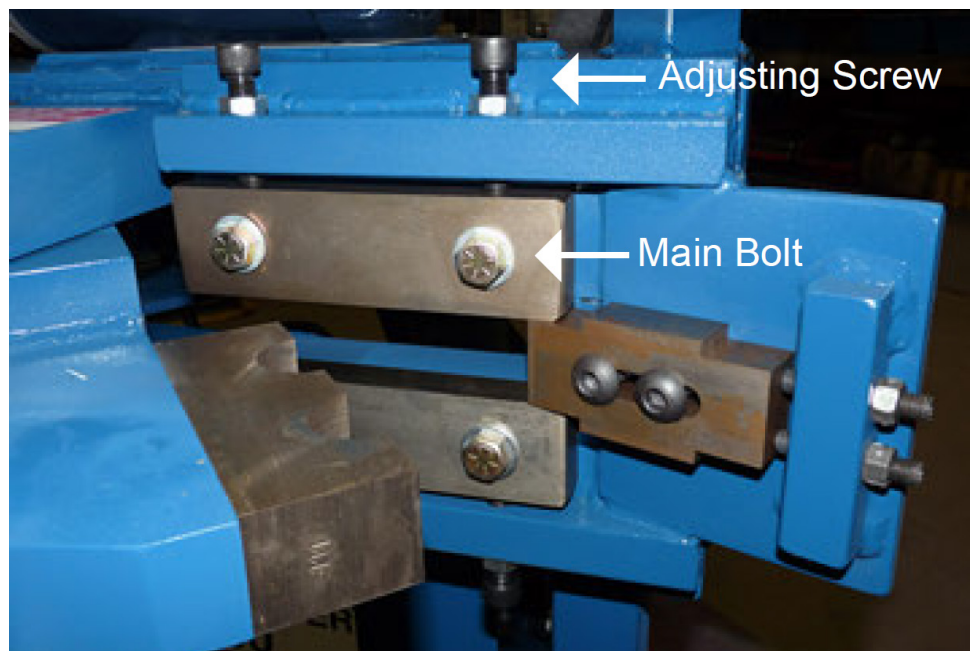


# Maintenance Instructions

1. Disconnect electrical power supply and use proper Lock Out Tag Out (LOTO) established by your company before doing any maintenance.
2. Contact the Engine manufacturer for proper procedures on maintenance and repairs
3. Grease main pivot shaft on a weekly bases.
4. Grease cylinder arm pivot on a weekly bases.
5. Once per year drain and replace hydraulic oil from reservoir with SAE 20 or SAE 30 Automatic transmission fluid.
6. Replace hydraulic filter with TSI #3090-1.
7. Hydraulic pump pressure at the valve to read 2600-2800 PSI on the gauge. If adjustment is needed to remove the outer cap and either tighten or loosen adjusting nut beneath the cap.

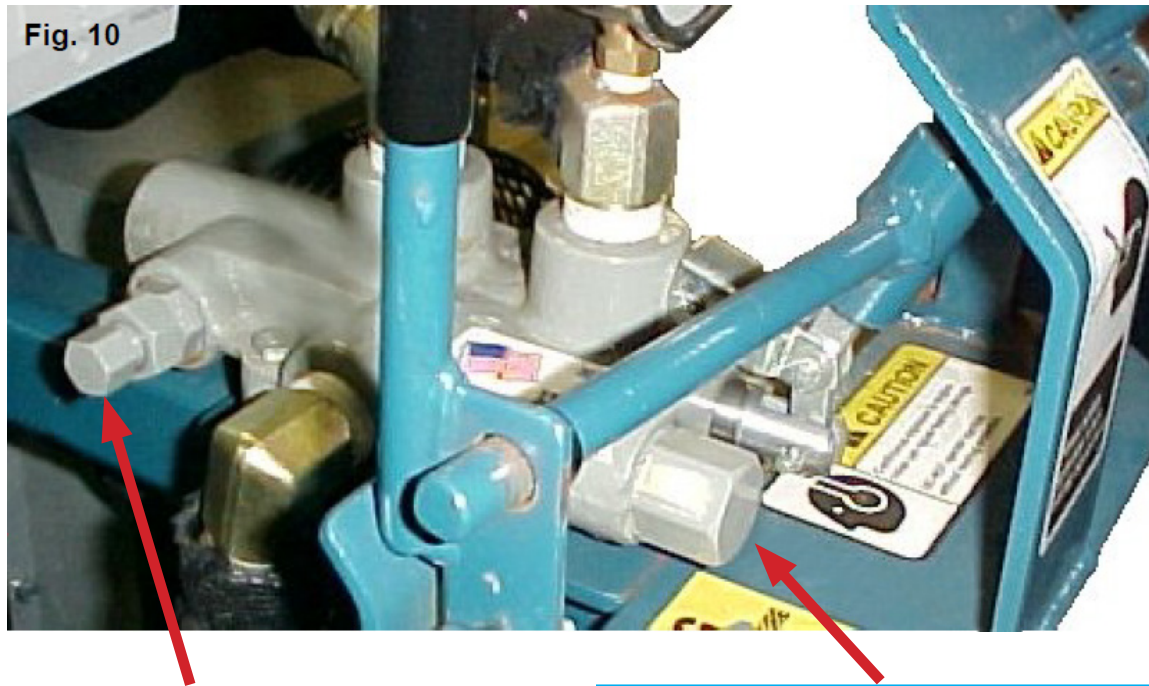
## Blade Adjustment

1. Adjust blades when cutting has poor results
2. Loosen main bolts to adjust the blade as shown in photo.
3. Place male jaw into closed position. Adjust female blades equally to zero tolerance, re-set adjustment bolts, cinch nut tight then tighten both firmly.
4. Tighten main bolts.





# Hydraulic Pressure Adjustment



If valve "kicks out" on the shear arm return stroke, the detent will have to be slightly tightened. Tighten outer nut 1/4 turn and tighten lock nut. Continue to cut. If valve still "kicks out" readjust it another 1/4 turn.

Hydraulic pump pressure at the valve is to read 2600-2800 PSI on the gauge. If pressure adjustment is needed, remove the cap and either loosen or tighten adjusting nut beneath the cap.

# Replacement Parts

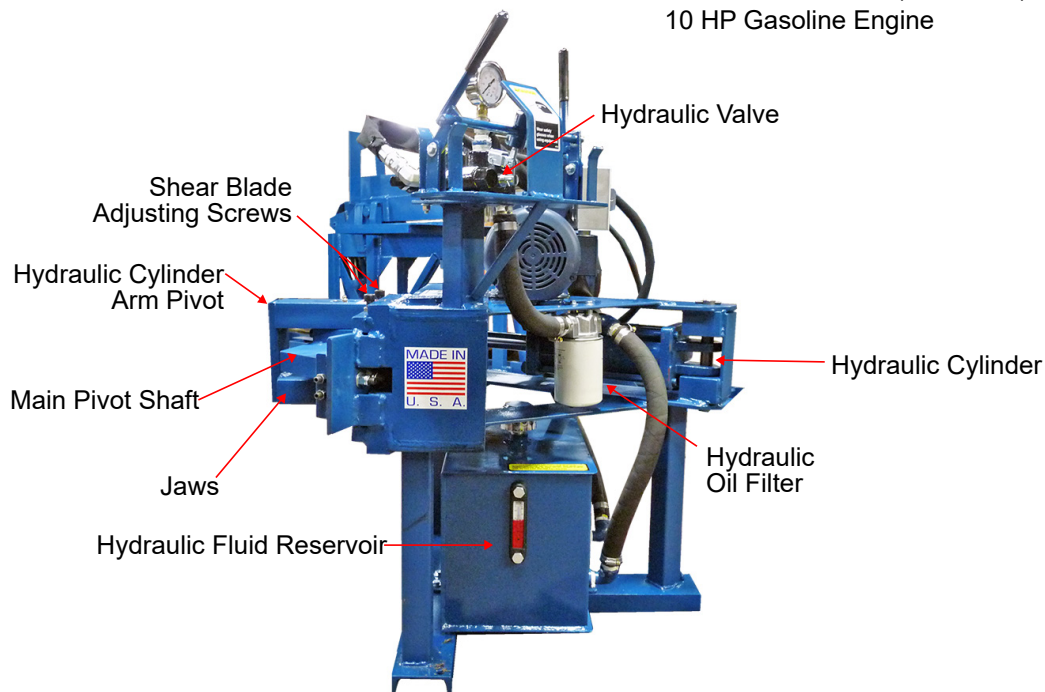
Item	Description
<b>BASE UNIT</b>	(on both models)
3020	Valve, Hydraulic
3019-4000	Gauge, 2.5"
3090-1	Oil Filter Spin on Cannister
3950	Female Shear Blade (bottom)
3949	Male Shear Blade (top)
11896	Shear Blade End Cutter
4048	Cylinder 4 x 8
10171	Gauge, Sight for Reservoir
<b>ELECTRIC MODEL</b>	
	(parts for electric model)
3477-3-1-60	Electric Motor 3 HP 1 Phase
10678 1 or 3 PH Switch	Electric Switch Only
3480	Pump, 2 Stage, 13gpm
3479	Adapter, Electric Pump
<b>GAS MODEL</b>	
	(parts for gas model)
3516	Engine, 10 HP
3480	Pump, 2 Stage, 13gpm
3160	Vibration Isolator

**Primary Features:**

**Power Source Option**

3 HP Electric motor ( standard )

10 HP Gasoline Engine



# Notes

# California Proposition 65

California's Proposition 65 entitles California consumers to special warnings for products that contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm if those products expose consumers to such chemicals above certain threshold levels.

**WARNING:** Some of Tire Service International's products can expose you to chemicals including chromium compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Your risk from exposure to these chemicals varies, depending on exposure time. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash your hands after touching TSI's products.

## Warranty and Return Policy

Warranty & Workmanship you can depend on.

With over 30 years of manufacturing experience we maintain the ability to provide competitive prices while employing and manufacturing the majority of our products in the USA. Pride in our workmanship and standing behind each and every product is not just our claim but our uncompromising responsibility.

Tire Service International equipment is warranted to be free from defects in materials and workmanship for a period of one year from the date of original purchase to the original owner. Repair labor is warranted for 90 days from the date of original purchase. Bushings, blades, bearings and normal wear and tear are not covered under warranty. Careless handling, negligence, misuse, abuse, mutilation, improper operation, making unauthorized repairs, additions, and or alterations automatically cancel this warranty and relieves TSI of any obligation. Cheetah tanks claimed to be defective while under warranty will be evaluated at our manufacturing plant and either repaired if possible or exchanged and returned or credit issued to the customer account at our discretion. Damage resulting from dropping the tanks will not receive warranty consideration. Warranty parts need to be returned prepaid to the plant for credit. Any replacement parts shipped from the plant will be shipped at the customer's expense. Machines requiring warranty work must be brought to the manufacturing plant in 201 Chelsea Rd, Monticello, MN or to a repair facility authorized by TSI.

**!!WARNING!!** Goods returned without an RGA will be refused. A Returned Goods Authorization form must be obtained before returning any material or goods. All non-warranty returns will be subject to a 15% restocking fee plus any additional charges for reconditioning/repacking.

Visit [www.buyTSI.com](http://www.buyTSI.com) for any additional information. Also be sure to follow us on all the Socials, and subscribe to our YouTube channel for all our product videos.

No part of this manual may be reproduced without specific approval from  
Tire Service International, LLC.

Copyright © 2024 Tire Service International, LLC

