TIRE SERVICE INTERNATIONAL

TC-125
TIRE CUTTER

buyTSI.com - 800.223.4540

MADE IN U.S.A

Read this manual 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

Safety Requirements

1. Only personnel trained in the TC-125 should be operating this machine.

2. Throughly read all safety and operating instructions before using this machine.

3. Personal Protective Equipment must be used including safety glasses.

4. Never wet the engine, ignition switch or hydraulic controls. Cover these items, if machine is to be washed.

5. Always disconnect electrical power from battery before attempting any maintenance.

6. Engine needs to be run outside for cooling and exhaust.

Installation Requirements

1. Fuel for engine

Set-Up Instruction

1. The hydraulic oil reservoir should be filled 2 to 3 inches from the top. If you add or change the fluid, use Type A automatic transmission fluid.

2. Position leveling jacks as required by raising or lowering jacks on either side to level the machine.

3. For towing the TC-125, connect to a 2-5/16" diameter ball hitch. Connect electrical wires to a wiring assembly to activate the electric brakes. Once connected, raise leveling jacks to their highest point before moving.

Operating Instruction

1. The machine instrument panel includes the key switch along with indicator lights. Turning the key to the right activates the digital display. Follow on-screen directions for starting.

2. Throttle control increases or decreases engine speed. DO NOT operate beyond 3/4 throttle speed.

Operating Instruction (continued)

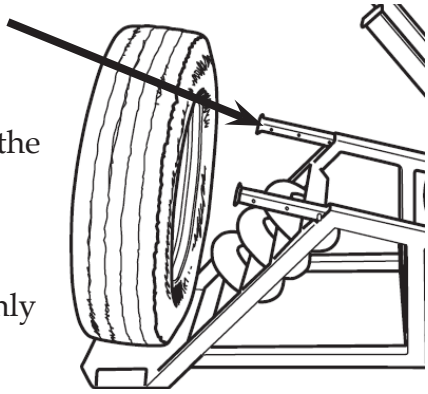
1. **Operating control levers -** The left lever controls the shear arm. The center lever controls the tire push/pull bars. The right lever controls the tire lift.

2. Insert the hydraulic push/pull bars into their sockets. Adjust length as required for tire width, either by the ball detent pin or with the adjusting cap screw.

3. Position stop arms on the lift as required.

4. Insert ball detent pin into stop arm pin holes.

Truck Tire Cutting Instruction



1. With arms positioned as shown, roll tire on hydraulic tire lift pad.

2. Start engine by following engine operating instructions.

3. By operating tire lift control lever on the right, the tire is raised to the cutting table.

4. Tip tire up and over to positioned in the center of the cutting table.

5. Using center hydraulic control lever, move tire push/pull bars firmly against the tire. By operating the lever on the left, move shear arm down to begin the shearing process.

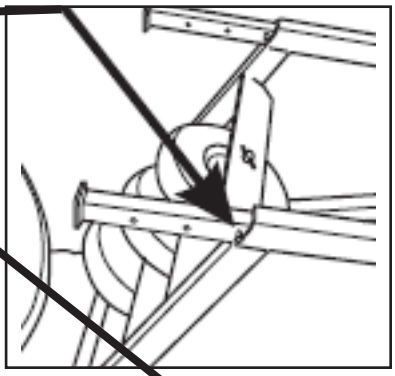
6. Continue to shear tire all the way through. Some additional adjustment may be done to the push/pull bars during the shearing to maintain pressure or position on the tire.

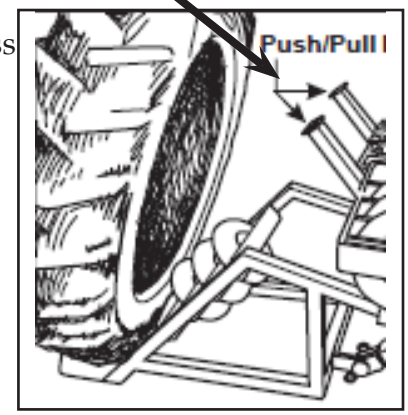
7. NOTE: Tire debris may be deposited below the cutting table during normal shearing operation. Before the next tire is placed onto the cutting table, ensure all of the cut debris is removed from machine.

8. Reposition the push/pull bars after the shear blade returns to the up position. Then reposition both of the tire halves and shear through them both.

9. Complete shearing the tire halves. When completed return the shear blade to the up position and the push/pull bars rearward to the start position. Remove the cut pieces from the cutting table.

Large Tire Cutting Instruction





1. Remove arms from sockets.

2. Position push/pull bars as shown here for a large tire.

3. Roll the tire onto the tire lift.

4. Support the top end of the tire on the push/pull bars.

5. Operate hydraulic lift to raise the tire to the cutting table. The tire should drop over the push/pull bars once raised horizontally.

6. Using push/pull bars draw tire onto the cutting table.

7. Position push/pull bars against the inside lip of the tire. Do not press the push/pull bars firmly as some adjustment may be required during shearing process.

8. By using the tire cut lever on the left begin to shear tire.

9. Continue to shear tire, making adjustments to the push/pull bars as required.

10. Push/pull bars are moved rearward to ease rotation of the tire for the next shear.

11. With the shear blade up and the push/pull bars moved rearward, rotate tire on roller bed to the next desired cutting point. Shear tire into smaller sections by repeating.

12. NOTE: Tire debris may be deposited below the cutting table during normal shearing operation. Before the next tire is placed onto the cutting table, ensure all of the debris is removed from the machine.

Maintinance

1. Grease main pivot bearings once a week. There is one bearing on each side of the machine.

2. Grease cylinder pivot anchors on both ends of the cylinder.

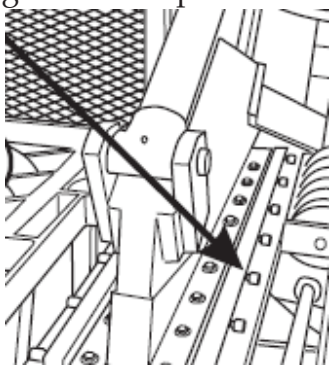
3. Grease all other pivot shafts on TC-125 (12 total)

4. Replace hydraulic filter element every six months or more frequently under heavy use or in dusty climate conditions. Disassemble the 6 cap screws on top of filter assembly. Remove filter element slowly allowing fluid to drain. Replace with a new element. Replace filter cap and 6 cap screws.

5. NOTE: Fluid should be changed completely every two years or if contaminated by foreign matter. Filter should be replaced when fluid is changed.

6. Follow manufacturers engine instruction manual for all engine service recommendations.

7. **Zero Clearance adjustment procedure** - With the shear blade in the full down position and the engine off, loosen the cap screws on bed shear bars (both sides). By checking at various positions adjust allen cap screws from both sides to adjust shear bars to a zero clearance. Retighten bed cap screws.



8. Every six months or prior to towing, remove wheels and inspect hub assemblies. Disassemble the wheel hub assembly and pack grease into wheel bearings and seals if required.

Replacement Parts List

Item	Description
4378	Cylinder 2 x 6
4857	Cylinder 2.5 x 16
3830	Cylinder 6 x 48
4619F	Female Shear Blade (two on bottom)
10171	Gauge, Sight for Reservoir
3019-4000	Gauge, 2.5 Dia x 1/4 NPT
3851	Jack, Sidewind 7,000lb
4618	Male Shear Blade (top)
4389	Needle Valve 3,000psi
10020E	Oil Filter Element
10152-12V	Oil Cooler Assembly
4617	Pin, Fulcrum 2.5 Dia x 17
4622	Pin, 1.5 Dia x 6
10642	Pin, 1.5 Dia x 11.25
4819	Pump, Gear Hydraulic
4823	Valve, 3 spool 45 GPM
1444	Wheel & Tire Assembly 4.10 x 3.5 x 4

Specification

Size:	192”L x 72”W x 100”H
Weight:	6,800 lbs
Power:	Diesel - 65 hp Kubota
Cylinder Bore & Stroke:	6”x 48” with 79,168 lbs of force Pull Cylinder: 2.5” x 16” Lift Cylinder: 2” x 6”
Hydraulic Oil:	29 gallon SAE 20 or 30 Automatic Transmission Fluid
System Pressure:	2,800 psi maximum
Pump:	45 gpm
Additional 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**.

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.

TSI
TIRE SERVICE INTERNATIONAL

Register your product online!

www.buytsi.com/registration

!!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 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.