TIRE SERVICE INTERNATIONAL
1-800-223-4540 ** 602-437-5020

OPERATION & MAINTENANCE INSTRUCTIONS
MODEL: TC-300

*Photo shown with gas motor

READ INSTRUCTIONS THOROUGHLY BEFORE OPERATING MACHINE

Contents

SAFETY INSTRUCTIONS

WARNING:

Only personnel trained in the operation of the TC-300 should be operating this machine.

Thoroughly read all safety and operating instructions before using this machine.

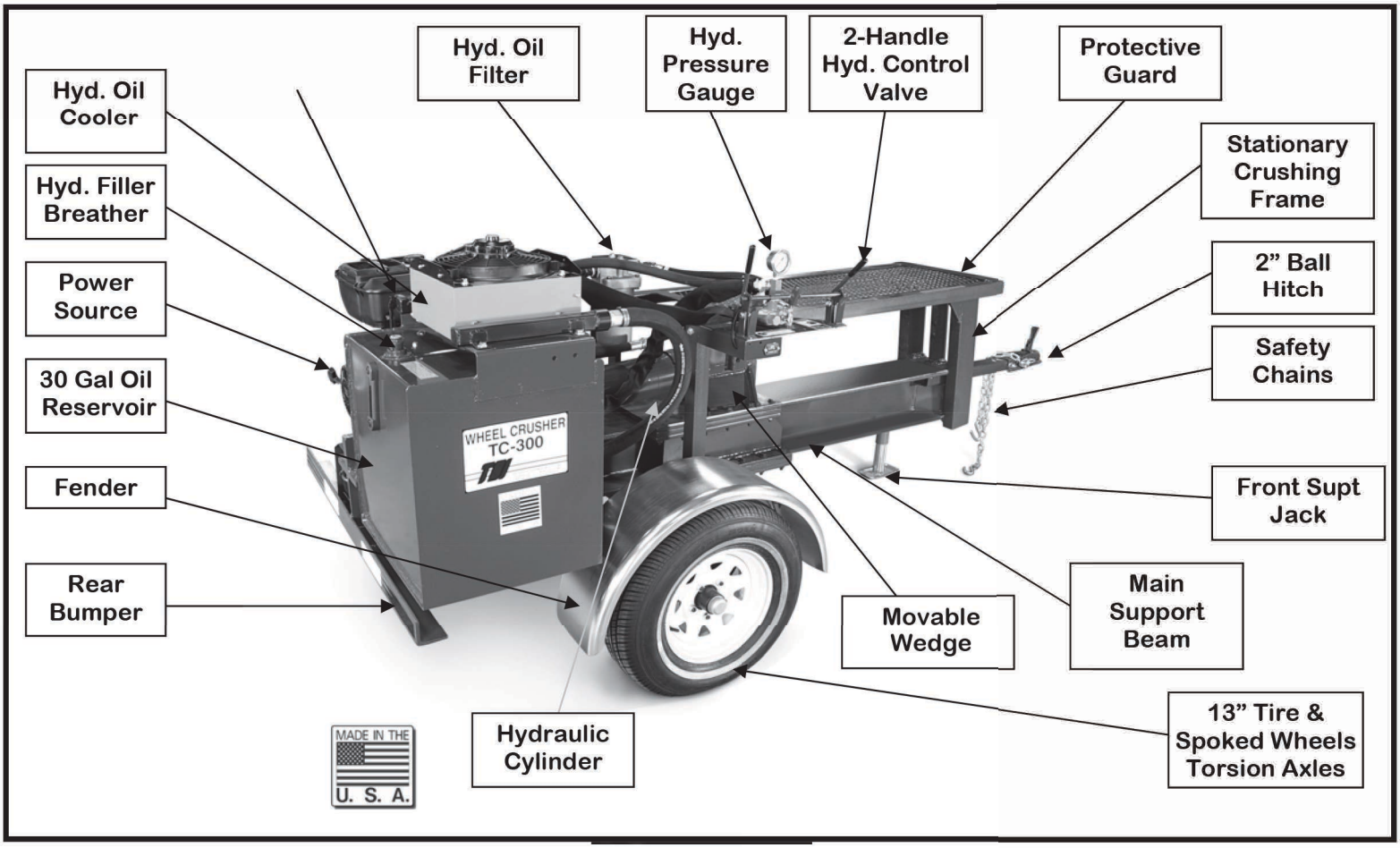
GENERAL: **NEVER** wet engine, motor, switch box or hydraulic controls. Cover these items if the machine is to be washed. Always disconnect electrical power before attempting maintenance. Gasoline or Diesel engines—please refer to the specified engine manuals supplied by these companies.

Gasoline Installation—STANDARD

18 H.P. Briggs & Stratton Vanguard with electric start.

Electrical Installation: The TC-300 Electric requires a minimum of 50 AMP, 230 volt, 60 cycle at the machine. The TC-300 Electric is equipped with a 10 HP, 230/460 volt, 60 cycle standard.

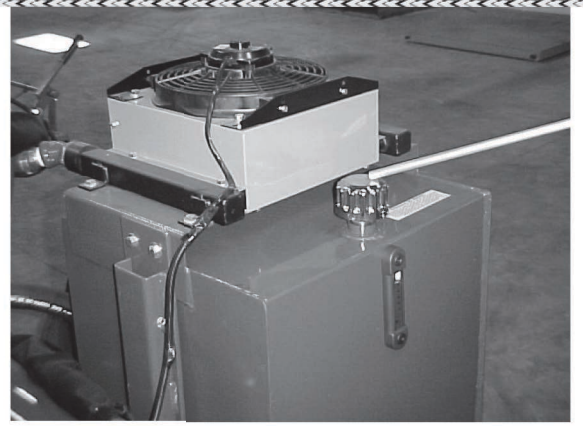
Caution: Motor rotation must be clockwise when looking at the end of motor. If electric motor runs counter-clockwise, reverse the wires as indicated on the motor plate diagram



OPERATING INSTRUCTIONS

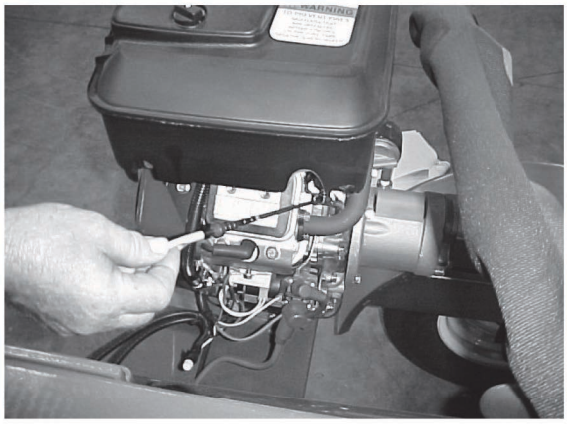
1

Position TC-300 near tire and wheel supply to be crushed. Place front support jack in position. Crank jack to bring TC-300 main beam to approximate level position.



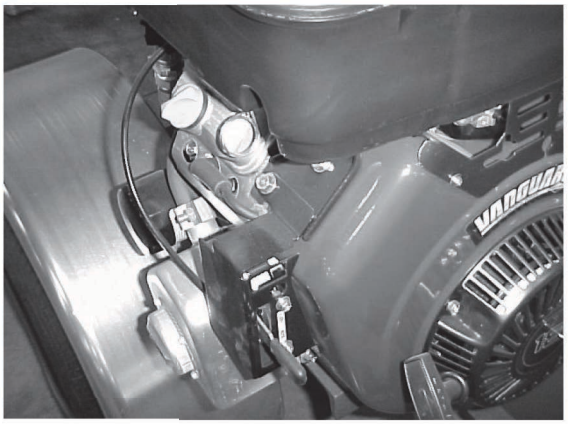
2

Check to be sure breather is installed in top of hydraulic reservoir.



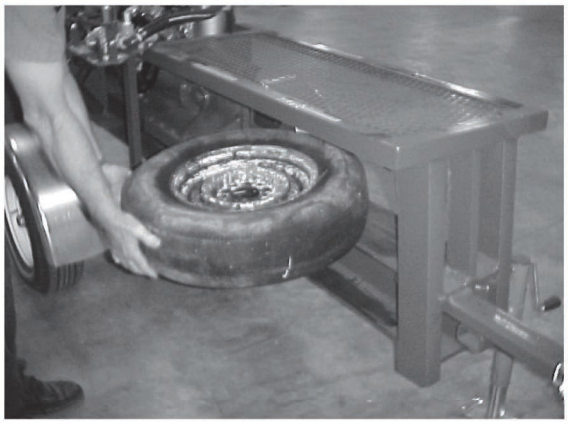
3

Check engine for oil and fuel levels. Turn on fuel valve, start engine using manufacturers operating instructions.



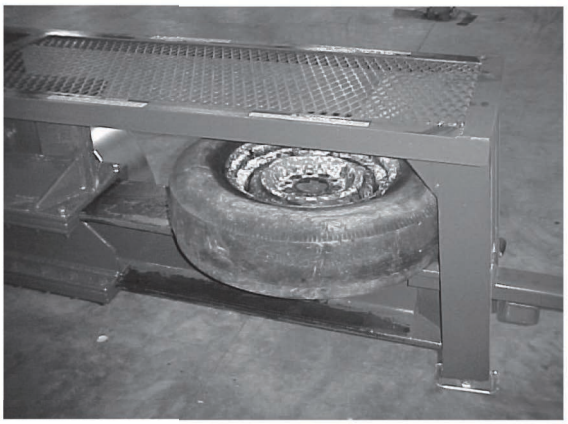
4

When crushing wheels, run engine at 3/4 open throttle.



5

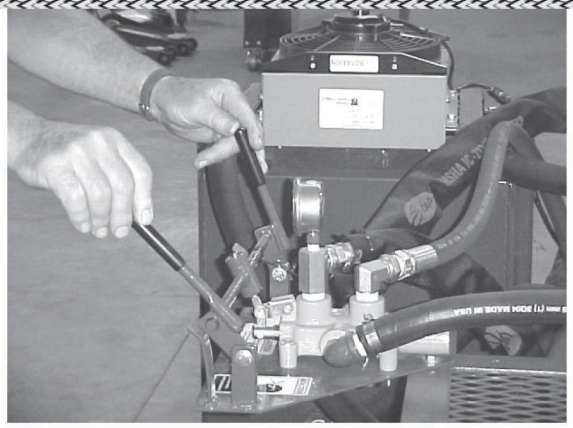
Place tire & wheel into the TC-300 crushing chamber. Place wheel with valve stem facing up. Center wheel over beam. ***NOTE: It is recommended that air be vented from tire.***



6

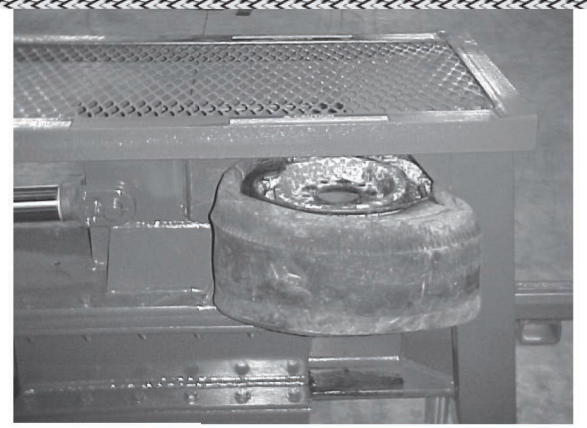
Position tire to the front against the crushing frame as shown.

OPERATING INSTRUCTIONS



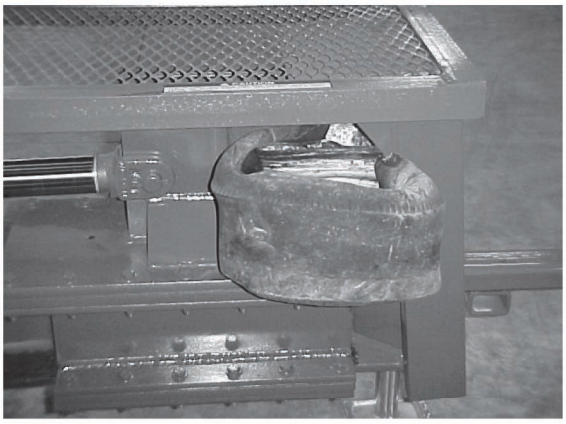
7

Operate Hydraulic valve handles. Pull valve handles towards operator to crush wheel. Push valve handles away from operator to return crushing wedge to starting position.



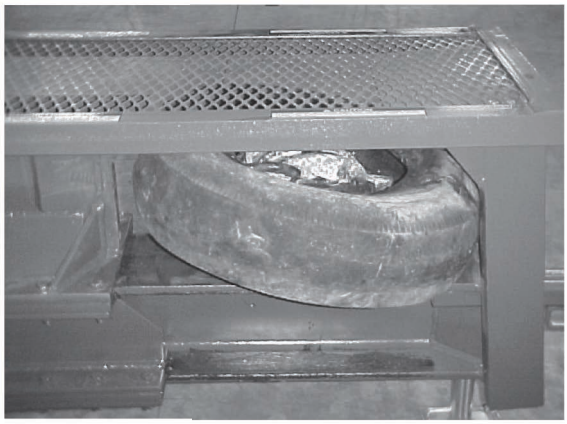
8

This photo illustrates the wheel being partially crushed.



9

This photo illustrates the wheel being fully crushed.



10

Operate Hydraulic valve handles to return crushing wedge to the starting position.

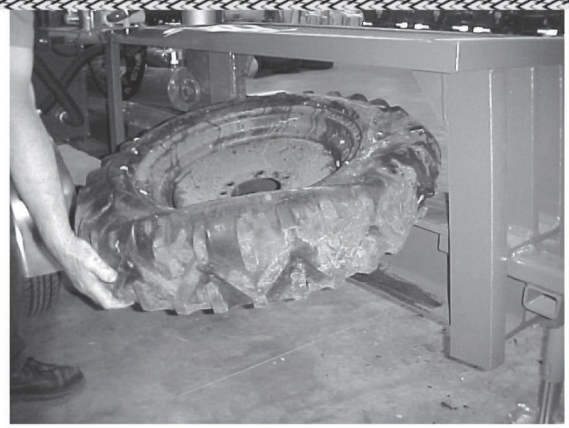
11

Slide the wheel and tire out of the TC-300 chamber. ***NOTE: The wheel & tire can be taken out of either side of the machine***

12

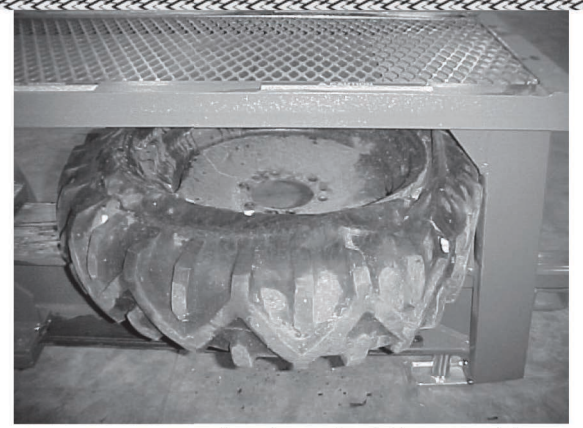
This photo illustrates the wheel crushed and separated from the tire.

OPERATING INSTRUCTIONS
Light Truck Tires



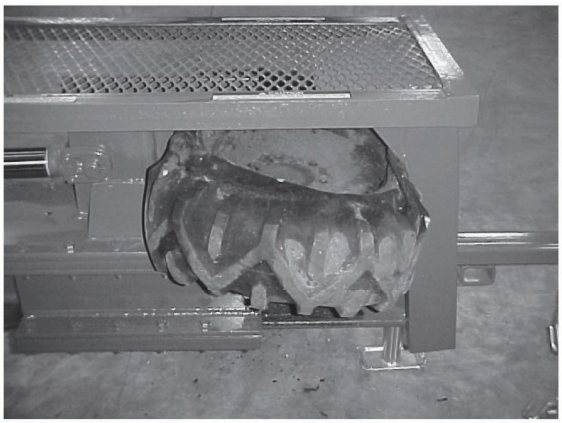
1

Place tire & wheel into the TC-300 crushing chamber. Place wheel with valve stem facing up. Center wheel over beam. ***NOTE: It is recommended that air be vented from tire.***



2

Position tire to the front against the crushing frame as shown.



3

This photo illustrates the wheel being fully crushed.

4

Operate Hydraulic valve handles to return crushing wedge to the starting position.

5

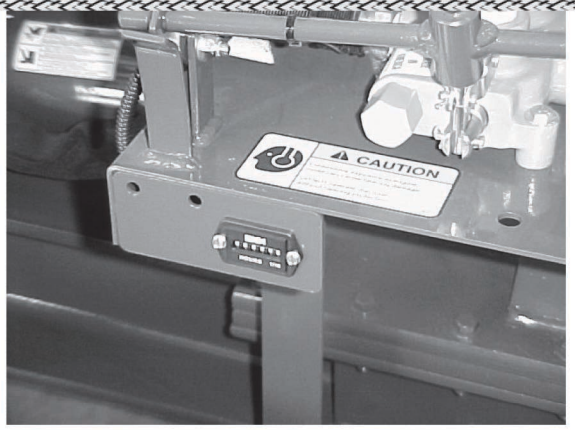
Slide the wheel and tire out of the TC-300 chamber. ***NOTE: The wheel & tire can be taken out of either side of the machine***

NOTE: If the light truck wheel is a lock ring style always place lock ring down against the beam

6

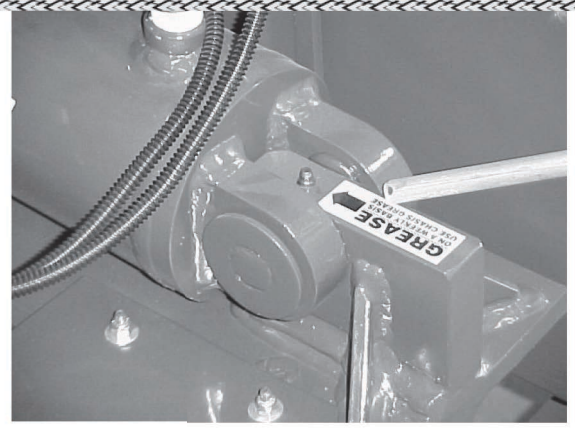
This photo illustrates the wheel crushed and separated from the tire.

MAINTENANCE



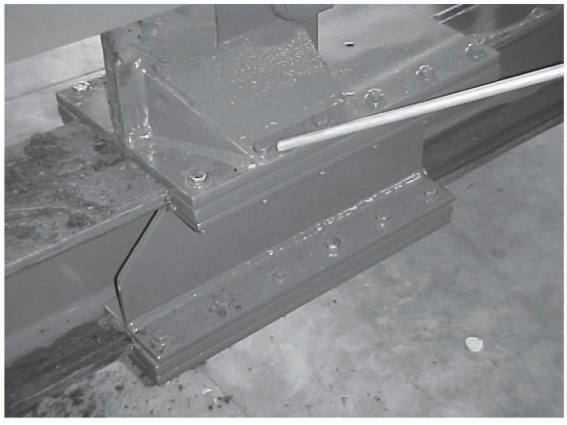
1

The Hour Meter indicates elapsed hours for proper engine maintenance service intervals.



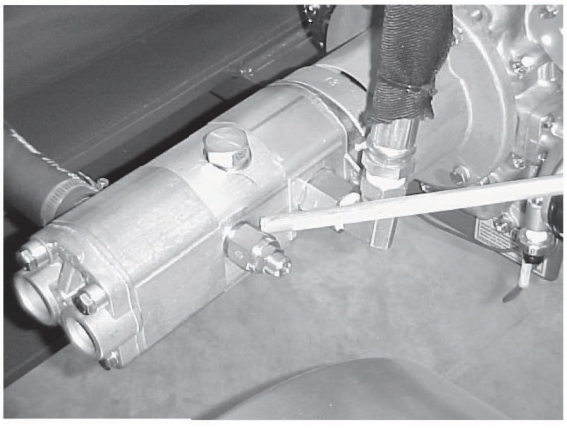
2

Periodically insert grease at the cylinder pivot.



3

Before daily operation check all bolts for tightness on the movable wedge.

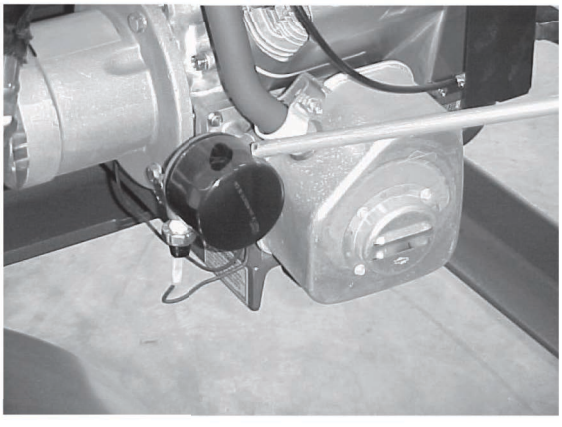


4

This adjustment controls low to high pressure shift point. If motor bogs down—loosen lock nut & turn Allen screw counter clockwise 1/2 turn and retry

5

Once every 6 months, remove wheels & hubs from axle and pack the wheel bearings with a wheel bearing grease.

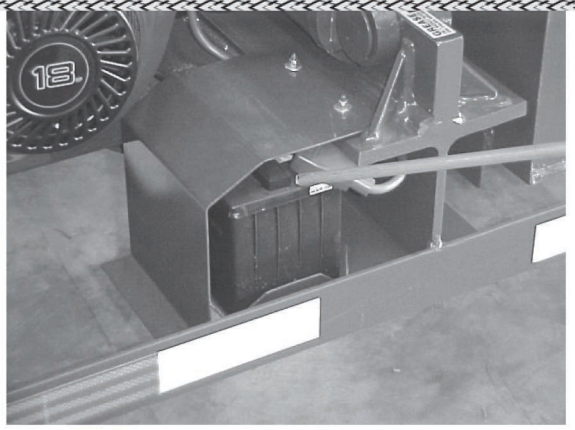


6

This photo illustrates the Oil filter location on the engine. Replace filter every 6 months for smooth engine operation

NOTE: Review Engine Manufacturer's manual for more info on servicing engines

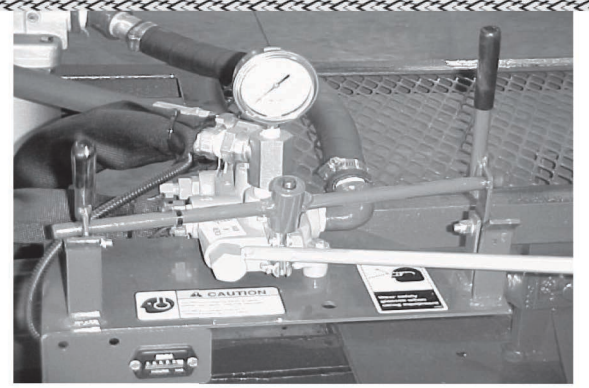
MAINTENANCE



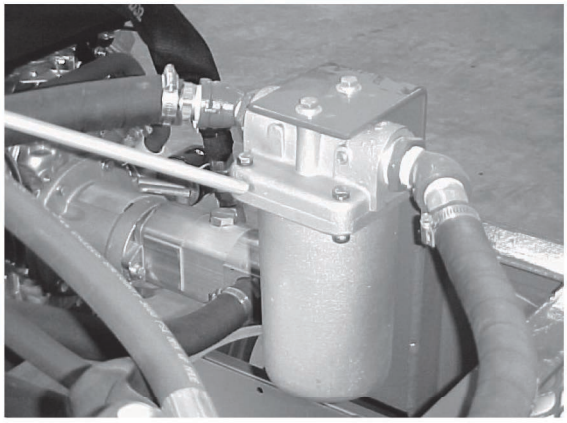
7

Every 6 months check battery condition

8



This photo illustrates the adjustment location of the hydraulic pump pressure to the valve. The gauge should read 2800—3000 PSI when the ram is fully extended. To increase pressure, first remove large Hex nut. Then using a Hex Allen wrench—turn adjustment screw to the right 1/4 turn at a time & recheck until pressure is 2800—3000 PSI.

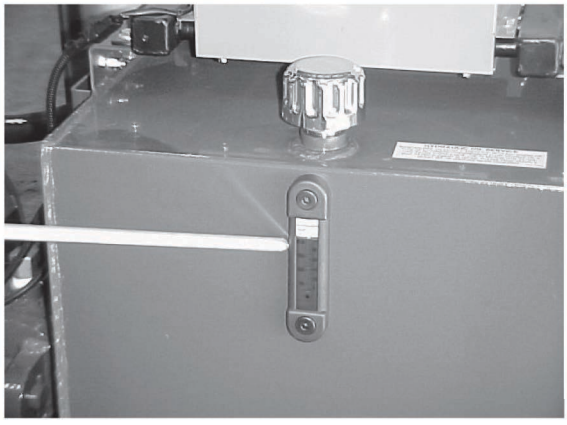


9

Replace oil filer every 6 months.
Use **TSI P/N 10130E**
for the replacement element

10

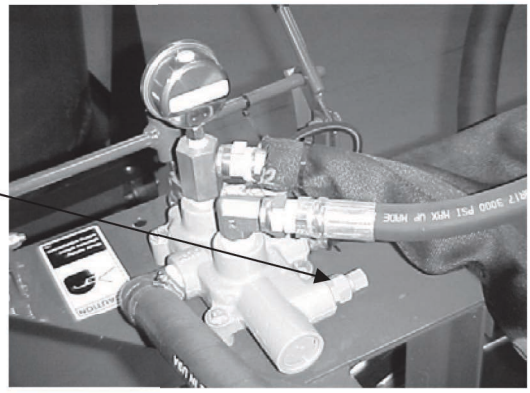
The crushing wedge has space wear bars on both the upper and lower slides. These wear bars may need adjusting. Loosen 6 upper and 6 lower cap screws and slide wear bars up to beam flange. Leave 1/32 clearance between beam and wear bar. If wear bars are worn too much, remove bars and turn side to side. This will give a new side to guide on. DO NOT ALLOW SLIDE BOLTS TO LOOSEN. KEEP BOLTS TIGHT TO 100 FT-LBS & ADJUST SLIDE PLATES IF NECESSARY.



11

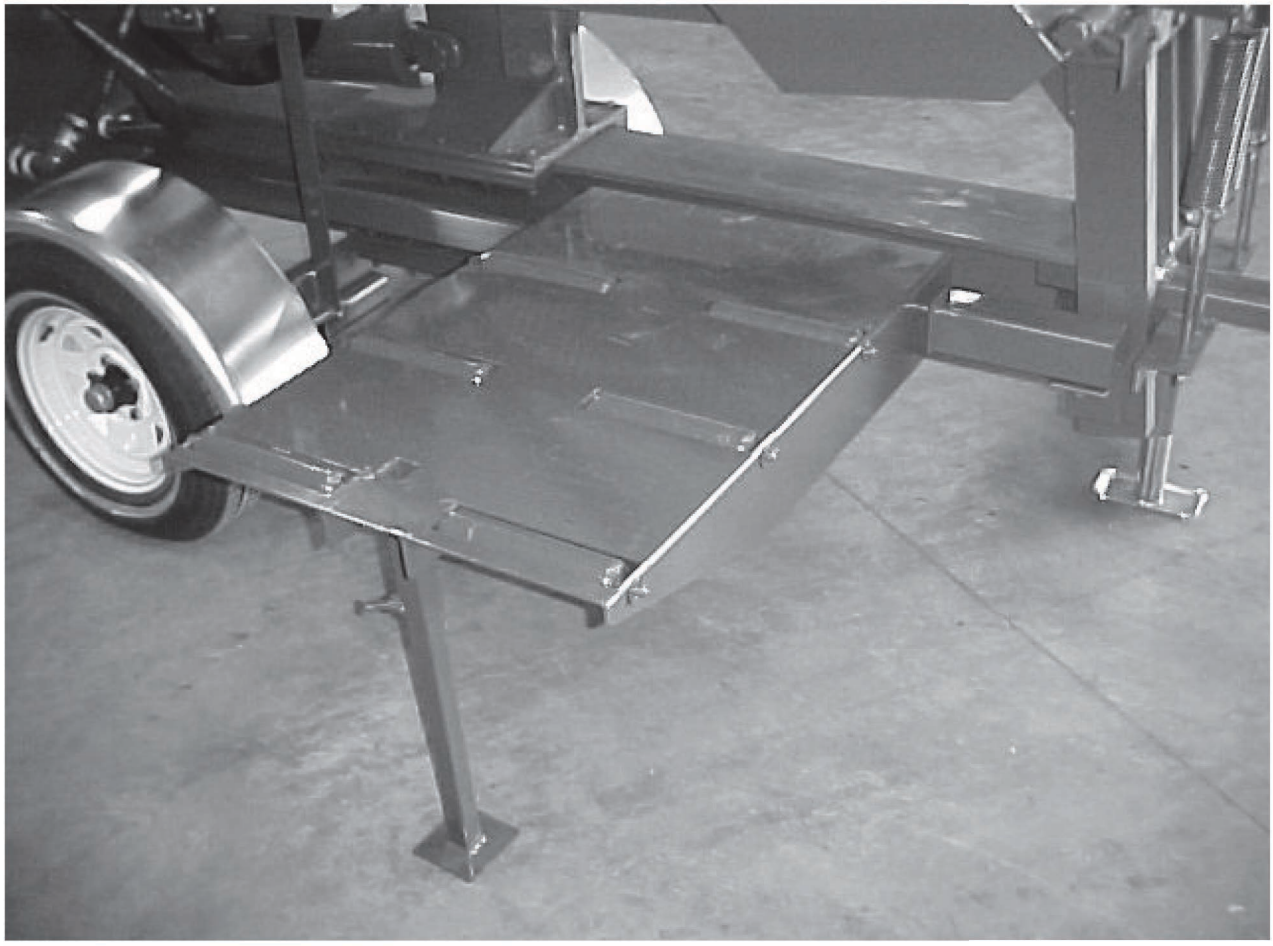
Check hydraulic oil reservoir level by viewing the sight glass. Oil level should be approximately 3" - 5" from the top.
NOTE: HYDRAULIC FLUID SHOULD BE DRAINED AND REFILLED EVERY 6 MONTHS. USE UNIVERSAL AUTOMATIC TRANSMISSION FLUID—SAE 20 OR SAE 30

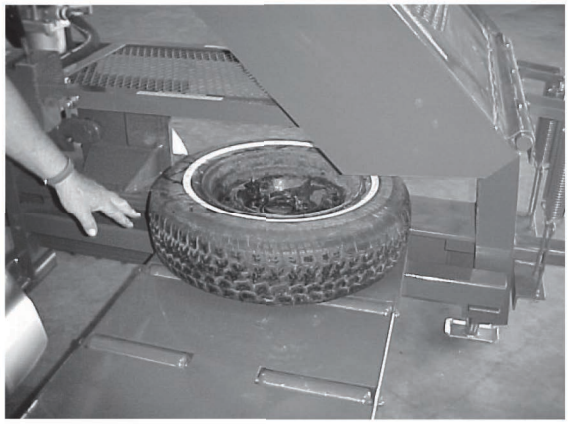
12

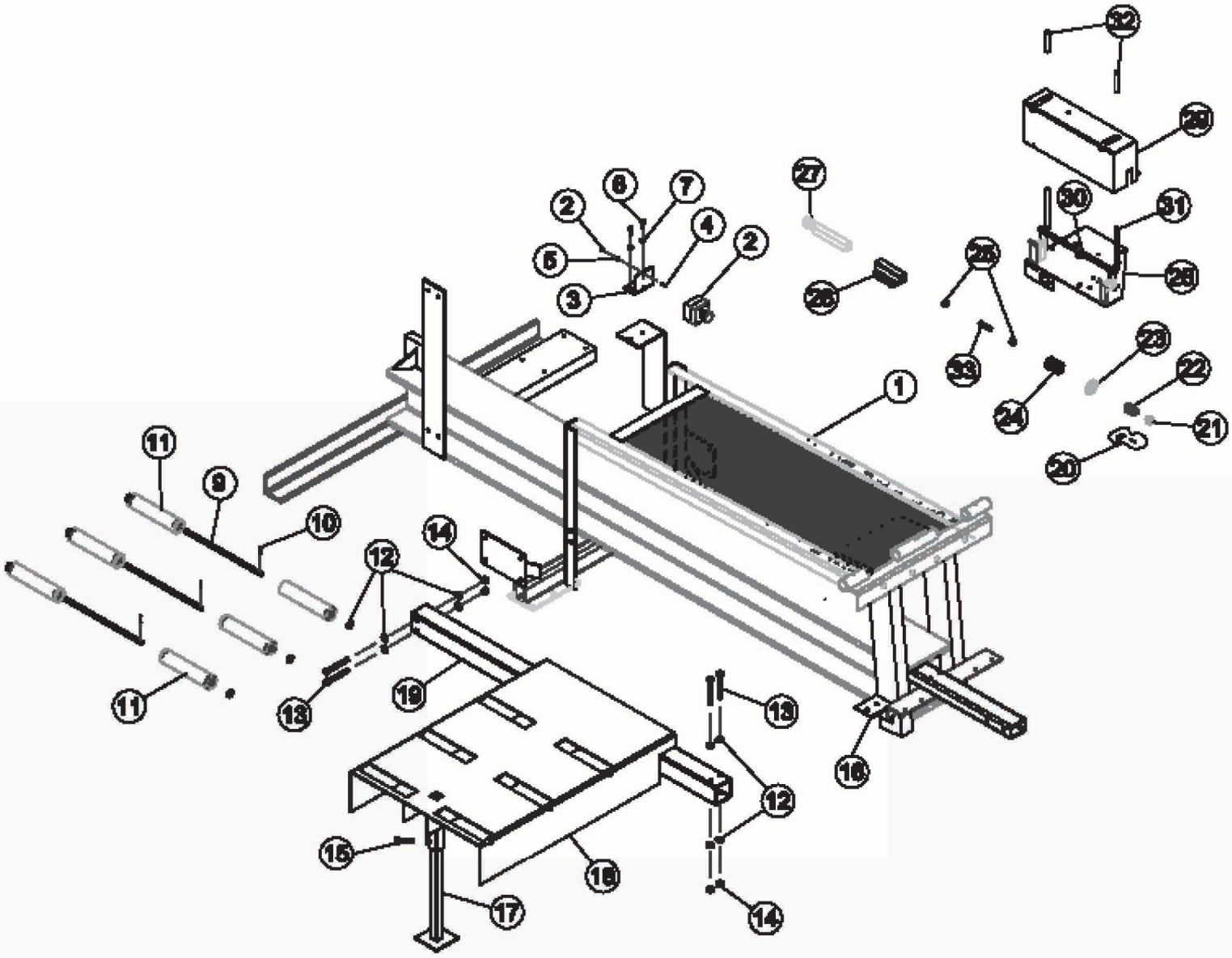


If the valve "kicks out" on the arms return stroke, the detent will have to be tightened slightly. Loosen lock nut as shown. Tighten outer nut 1/4 turn and tighten lock nut. Continue to crush. If it "kicks out" again, readjust it another 1/4 turn.

ROLLER TABLE KIT
TSI #6114







PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	5600	MAIN FRAME WELDMENT ASSY	1
2	11888	EMERGENCY STOP	1
3	11895	BRACKET, E-STOP	1
4	3118	MACHINE SCREW #10-24 X 1	2
5	4570	NUT, HEX #10-24	2
6	127.108	WASHER, LOCK	2
7	565	CAP SCREW 5/16-18 X 1	2
8	1318	WASHER 5/16"	2
9	6109	ROLLER ROD WELDMENT	3
10	338	SPRING PIN 1/8 X 1	3
11	11713	GRAVITY ROLLER 0.75	6
12	824	WASHER 1/2"	11
13	3647	CAP SCREW 1/2-13 X 3-3/4	4
14	283	NUT, HEX 1/2-13	4
15	534	CAP SCREW 1/2-13	1
16	11878	BRACE, TABLE MOUNTING	1
17	6109	LEG, EXTENSION	1

ITEM	PART NO.	DESCRIPTION	QTY
18	6107	TABLE WELD	1
19	11877	BRACE, TUBE	1
20	4756-3	CLEVIS PIN & SPRING PIN	1
21	79107	BEARING	1
22	4756-2	CLEVIS	1
23	172932	WASHER	1
24	264	SPRING, LOCK RETURN	1
25	963	NUT, HEX 1/2-20	2
26	6106	SLIDE WELDMENT	1
27	11871	BAR, LOCK OUT	1
28	6113	VALVE MOUNT WELD	1
29	6112	VALVE COVER WELD	1
30	5535-01	PIVOT WELD	1
31	5534	HANDLE WELD	2
32	228	GRIP HANDLE	2
33	11872	STUD, HANDLE LOCKOUT	1