



Model 5024T
1" – 3" Steel Pipe Squeezer
Sch. 40 & Sch. 80

Operations Manual

Model 5024T 1" – 3" Pipe Squeezer

1.0 Introduction

This manual is issued as a basic service & maintenance manual covering the Regent Model 5024T, Pipe Squeezer manufactured by Regent Tools, Inc. Houston, TX. USA.

2.0 Specifications

Working Load: 40 Tons

Max Working Pressure: 10000 PSI

Net Weight: 85 Lbs.

Dimensions: 13" x 25"

3.0 Features

The Regent model 5024T Flow Stop Pipe Squeezer is used for Gas, Oil & Water lines emergency repairs and maintenance.

The Model 5024T will give flow control on steel pipe sizes from 1" through 3" schedule 40 & 80 steel pipe and up through 3" Copper pipe. Optional reopening kits are available. Grounding Strap may be attached to the tool as required by company policy.

4.0 Operating Procedures

The following procedure has been established to properly close steel pipe of various sizes. For satisfactory results care should be taken and noted on each section of steel pipe squeezed so that a history of reaction to the squeeze points are documented.

Select Pinch off location away from gaseous area.

Remove wrappings, coatings and clean pipe.

Examine pinch area for location of seam, girth welds, excessive pitting, and possible weak spots. Avoid these areas.

Connect the hose of the pump to the squeezer. Make sure the pump has oil and the valve is open to pressure the tool.

Locate the squeezer on the pipe by removing the jaw pin and place under the pipe. Reconnect the Pin. (Do Not locate the squeezer on the line so that the seam of the pipe would be in the fold area)

Squeeze Pipe by applying pump pressure.

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On completion of squeeze, hand tighten knurled lock ring.

Support entire weight of squeezer by blocking.

Make necessary repairs

Upon completion of work to release the tool it may require additional pressure be applied by the pump to release the knurled lock ring. Back knurled lock ring to the up most position and open the pump valve to allow the springs to retract the tool.

Remove the pin and open the lower jaw to remove the squeezer from the line.

5.0 Service

To Service Ram "O" Ring (23) and or Backup Ring (24) Figure 1.

Remove the four retaining rings (37), holding top tension pins (11), lockwasher (25) and Top plate (7)

Remove Safety Nut (2)

Remove Snap ring (18) by inserting a 1/8" rod into the hold provided in the cylinder (5)

Remove bushing (12)

Extract ram (6) using care not to score the cylinder wall

Replace "O" Ring and or backup ring with 5024T Seal Kit as mfg by Regent Tools. Lubricate with STP prior to installation. Replace backup ring by expanding over the bottom of the ram so that the grain side (smooth side) will come in contact with "O" Ring. (It may require a little heat to expand the seal for easy of installation.

Reassemble in reverse order.

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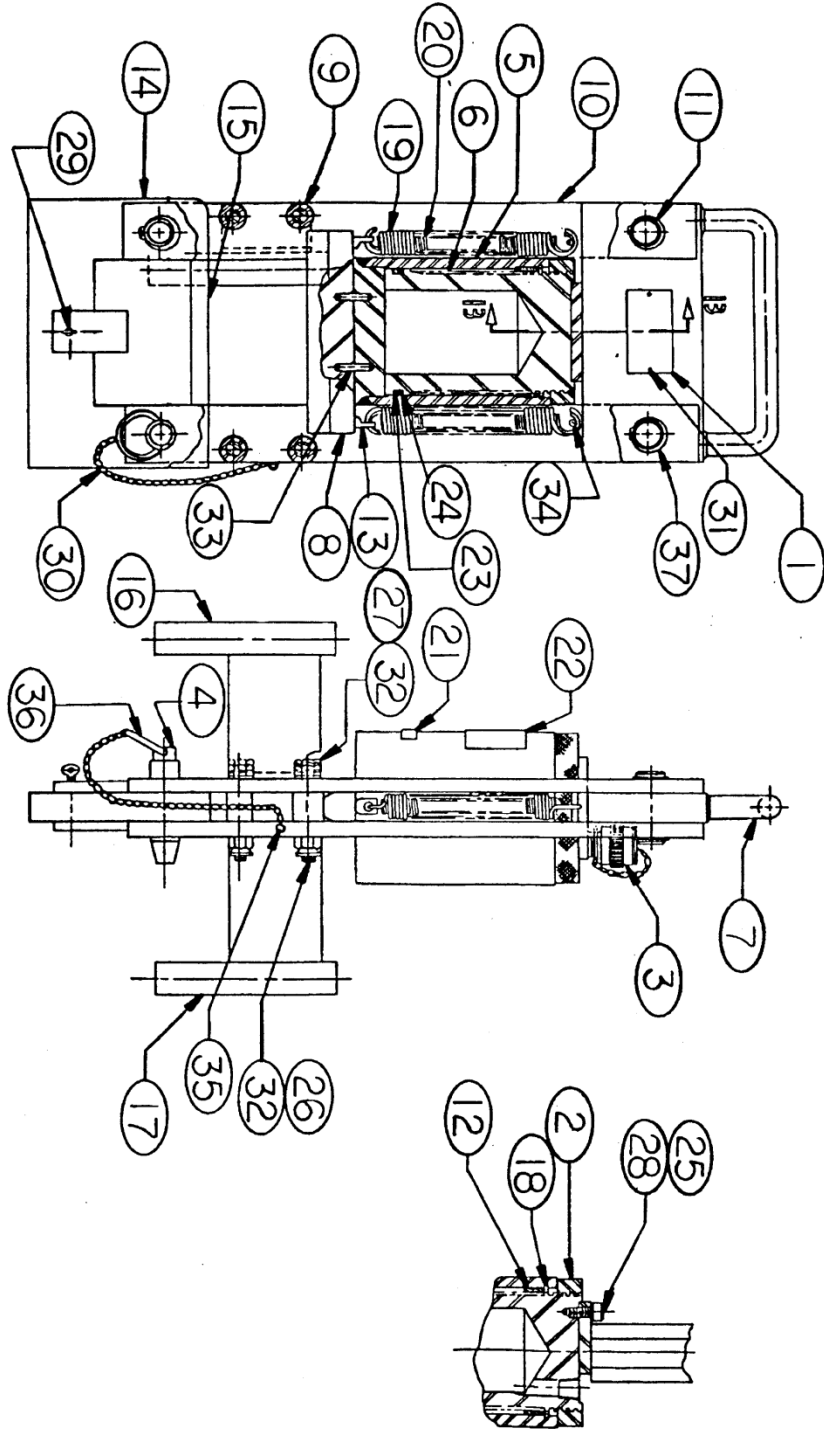
Parts Listing Figure 1

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Figure 1

FIG. & ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
1-	5024T	3" Pipe Squeezer	Ref.
-1	915-176	Nameplate	1
-2	5024T-2	Safety Nut	1
-3	915-DZ	Female Coupler.....	1
-4	5024S-9	Pin	1
-5	5024S-31	Cylinder Weldment.....	1
-6	5024S-32	Ram.....	1
-7	5024S-34	Top Plate.....	1
-8	5024S-35	Upper Jaw	1
-9	5024S-37	Tension Bar Spacer	4
-10	5024S-38	Tension Bar.....	4
-11	5024S-41	Tension Bar Pin.....	3
-12	5024S-44	Cylinder Bushing	1
-13	5024S-45	Spring Eye.....	2
-14	5483-1A	Lower Jaw	1
-15	5483-1B	Jaw Insert.....	1
-16	5485-1-1	Guide Bar	1
-17	5485-1-2	Guide Bar	1
-18	915-150.12-4.78	Snap Ring.....	1
-19	916-186-3	Tension Spring.....	2
-20	916-186-4	Tension Spring.....	2
-21	916-206	Decal	1
-22	916-203	Decal	1
-23	MS28775-346	O-Ring	1
-24	916-45-4.094	Backup Ring.....	1
-25	.38 NOM Size	Regular Lockwasher	1
-26	.50-13 UNC x 2.75 Lg	Hex Hd Capscrew	2
-27	.50-13 UNC x 3.25 Lg	Hex Hd Capscrew	2
-28	.38-16 UNC x .75 Lg	Skt Hd Capscrew	1
-29	.25-20 UNC x .50 Lg	Thumb Screw Type B Regular	1
-30	Size 1/0 X 8.00 Lg	Plumbers Chain.....	1
-31	#2 (.098) x .12 Lg	Rd Hd Drivescrew	2
-32	.50-13 UNC	Self Locking Hex Nut.....	4
-33	.25 NOM x 1.00 Lg	Spring Pin.....	2
-34	.25 NOM x 2.00 Lg	Spring Pin.....	2
-35	#4 (.114) x .38 Lg	Rd Hd Drivescrew	1
-36	1.75 Dia	Key Ring.....	1
-37	5100-100ZD	Retainign Ring (Waldes Truarc).....	6

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Drawing 5024T



3" FLOW STOP PIPE SQUEEZER ASSEMBLY

FIGURE 1