

THE TC-28 HYDRAULIC TIRE CONSTRICTOR CONSISTS OF:

1. **A MANUAL HYDRAULIC PUMP** with hand operated pressure release valve.
2. **A HYDRAULIC HOSE ASSEMBLY** ten feet long with spring type hose guard at both ends. Hose assembly connects manual hydraulic pump to tire constrictor ram.
3. **A HYDRAULIC RAM** with ten inch stroke which is mounted in a welded frame through which the constrictor belt is threaded as shown on the tool operating instruction plate and on the attached drawings, Plates A and B.
4. **A ROLLER RAM HEAD** which screws into the 1"-8 female thread in the ram piston head.
5. **TUXCO TCA CONTROL VALVE (NSN: 4730-01-127-8188)** for the end of the air compressor hose. This large orifice valve allows maximum air flow to assist in sealing tubeless tire beads to the wheel bead seat. It is equipped with a safety valve set at 45 psi. **USE TCA VALVE ONLY TO SEAT BEADS. DO NOT INFLATE WITH TCA.**
6. **A TWO INCH WIDE DACRON BELT** that threads into and through the Tire Constrictor, around the tire and back to the constrictor. As the hydraulic ram piston is extended, the belt secured tightly around the tire, is shortened twenty inches, forcing the tire beads outward against the rim bead seat so that the casing will hold air and be inflatable. **THE DACRON BELT PROVIDED IS RATED AT 15,000 POUNDS. ALWAYS CHECK BELT FOR CUTS AND ABRASIONS BEFORE USING TIRE CONSTRICTOR. REPLACE BELT ONLY WITH TUXCO PART NO. TC-28-7B OR TC-28-9C.**

THE TC-28 HYDRAULIC TIRE CONSTRICTOR was designed to assist in inflating 14 to 28 ply tubeless off-the-road tires. **MODEL TC-60 HYDRAULIC TIRE CONSTRICTOR** is for use with 6 to 14 ply construction tires and utilizes a 6" wide Dacron belt.

An air compressor of at least 15 CFM is recommended for inflation when using the Hydraulic Tire Constrictor.

TO OPERATE THE TC-28 HYDRAULIC TIRE CONSTRICTOR:

1. Be certain Tire Constrictor and belt are assembled per attached drawing, Plate A.
2. Clean and lubricate tire bead and rim before installing tire. Also clean and lubricate the Dacron belt and tread area with tire lubricant where it will contact the tire so it will slide freely over the tire cleats. Failure to do so will cause the applied pressure to be distributed unevenly to the circumference of the tire.
3. Slip belt loop around tire putting Tire Constrictor at 7:30 o'clock when facing tire. Be sure belt is in center of tire tread and that it is flat against tread.
4. Tighten loop around tire by drawing open end of belt tight and secure as shown in drawing, Plate B.
5. Close pump valve by turning valve knob clockwise.

WARNING: USE SAFETY CAGE AND RESTRAINING DEVICES TO PREVENT INJURY IN THE EVENT THAT THE LOCKING RING DISENGAGES. INSTALL AT LEAST TWO RESTRAINING DEVICES (CHAIN OR CABLE) AROUND THE TIRE AND THROUGH THE RIM ASSEMBLY.

6. Using pump, extend ram until slack and stretch is removed from belt. Release ram pressure with manual valve on pump and when ram contracts, re-tighten belt.
7. Constrict tire to the full travel of the hydraulic ram using hand pump. Lubricate the belt and beads as required to allow steady movement of the belt along the crown of the tire.
8. **ASSURE THAT RIM AND WHEEL LOCK RING ARE ALIGNED AND IN PLACE.**
9. Use TCA Adapter to control air flow from compressor until beads seat. Stop air flow immediately. **Do Not use TCA Adapter to continue inflation.**

WHEN INFLATING ALWAYS WORK FROM THE SIDE OPPOSITE THE LOCK RING.

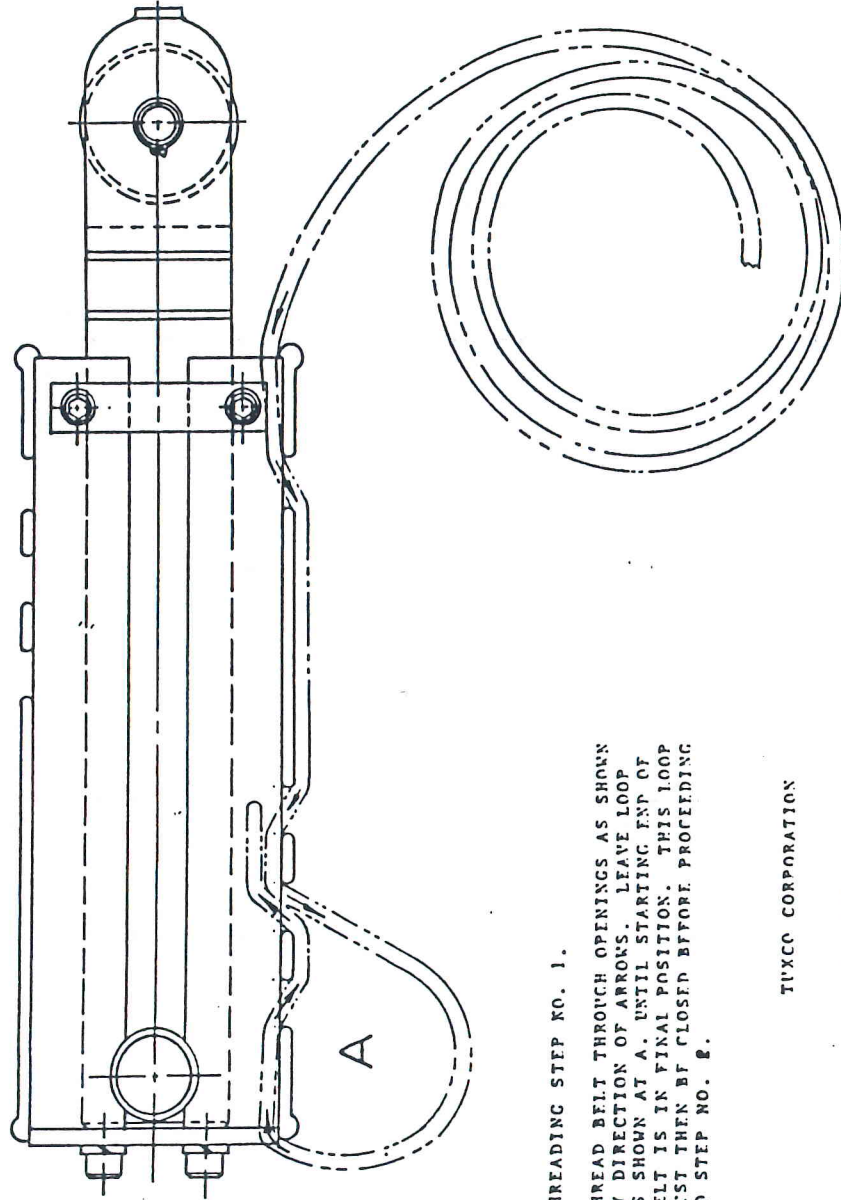
DURING CONSTRICTION AND INFLATION IT WILL OCCASIONALLY BE NECESSARY TO STRIKE THE TIRE CROWN WITH A HEAVY HAMMER TO ASSURE THAT THE BELT SLIPS AROUND THE TIRE CROWN AND THAT THE BEADS SEAT ON THE RIM.

WARNING:

AS SOON AS TIRE SEALS AND HOLDS AIR, STOP INFLATING. OPEN PUMP VALVE, RETRACTING RAM. REMOVE BELT FROM TIRE. REMOVE TCA ADAPTER FROM VALVE STEM AND REPLACE VALVE CORE. ALWAYS FINISH INFLATION WITH STANDARD AIR CHUCK, NOT WITH TCA ADAPTER.

NEVER EXCEED TIRE MANUFACTURES AIR PRESSURE SPECIFICATION.

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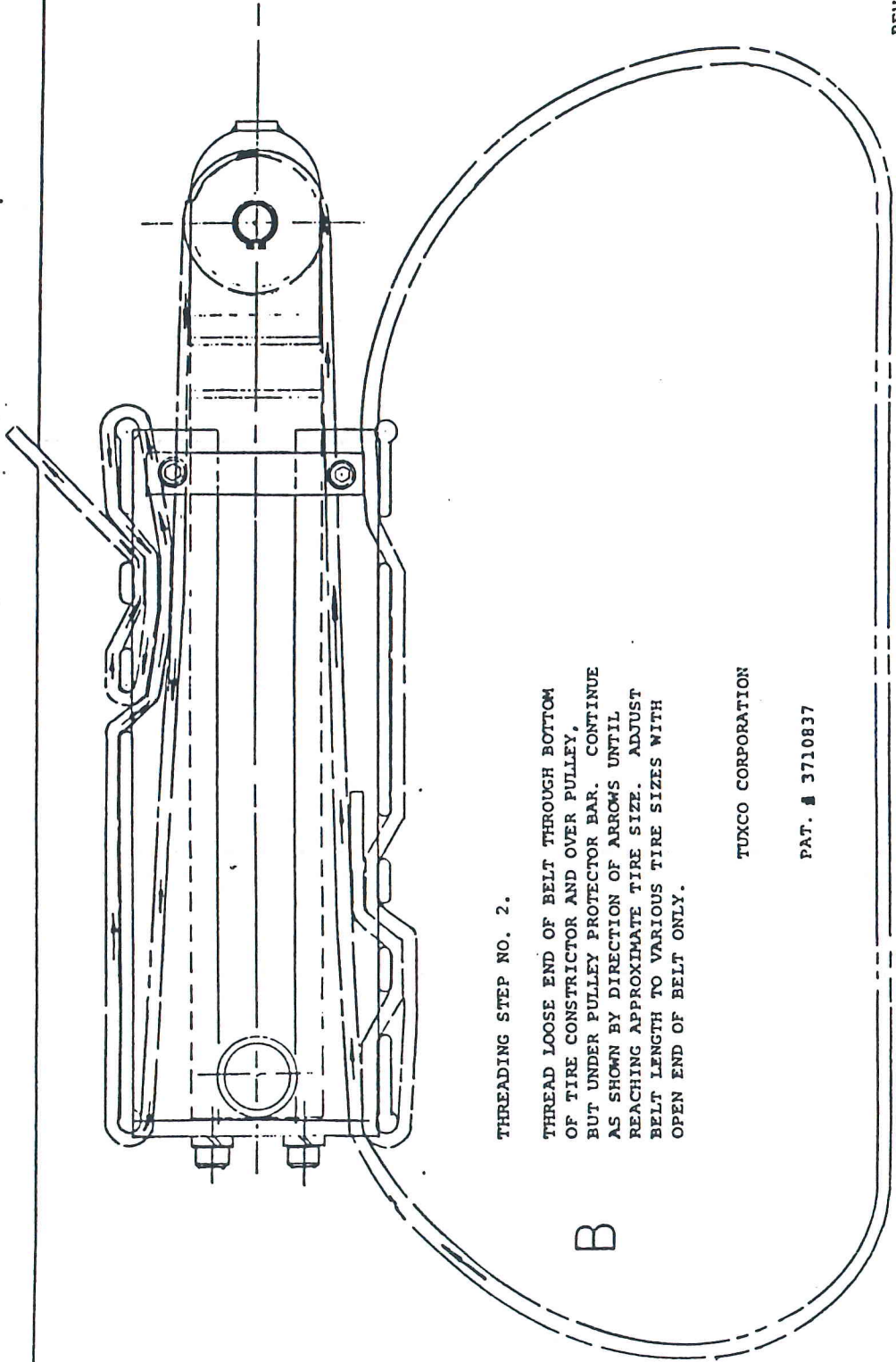


THREADING STEP NO. 1.

THREAD BELT THROUGH OPENINGS AS SHOWN BY DIRECTION OF ARROWS. LEAVE LOOP AS SHOWN AT A. UNTIL STARTING END OF BELT IS IN FINAL POSITION. THIS LOOP MUST THEN BE CLOSED BEFORE PROCEEDING TO STEP NO. 2.

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THREADING STEP NO. 2.

THREAD LOOSE END OF BELT THROUGH BOTTOM OF TIRE CONSTRICTOR AND OVER PULLEY, BUT UNDER PULLEY PROTECTOR BAR. CONTINUE AS SHOWN BY DIRECTION OF ARROWS UNTIL REACHING APPROXIMATE TIRE SIZE. ADJUST BELT LENGTH TO VARIOUS TIRE SIZES WITH OPEN END OF BELT ONLY.

B

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REVISION/1

TO DISASSEMBLE THE TC-28 HYDRAULIC TIRE CONSTRICTOR:

1. Remove belt from Tire Constrictor frame.
2. Pump ram out far enough so it can be held firmly and kept from turning. DO NOT use a pliers or anything that can mar the piston's polished surface.
3. Holding the piston firmly, unscrew the slide bar ram head from the piston end, turning the head counterclockwise. Tap the head with a hammer if necessary to loosen it.
4. Release the pressure on the ram and allow it to retract.
5. Remove the six screws from the instruction plate and remove the plate from the constrictor frame.
6. Remove the two socket head stripper bolts from the constrictor frame end plate. The ram and hose assembly can now be withdrawn from the frame. If the rectangular frame tubes squeeze down onto the hose making it difficult to remove the ram, use a small wooden wedge to spread them slightly.

TO DISASSEMBLE THE RAM:

1. Unscrew the acorn nut inside the threaded end of the piston to detach the return spring from the piston rod.
2. Using a small spanner wrench, remove the brass rod guide from the front of the ram.
3. Remove the piston from the ram body.
4. Remove and replace old seals at the end of the piston rod.

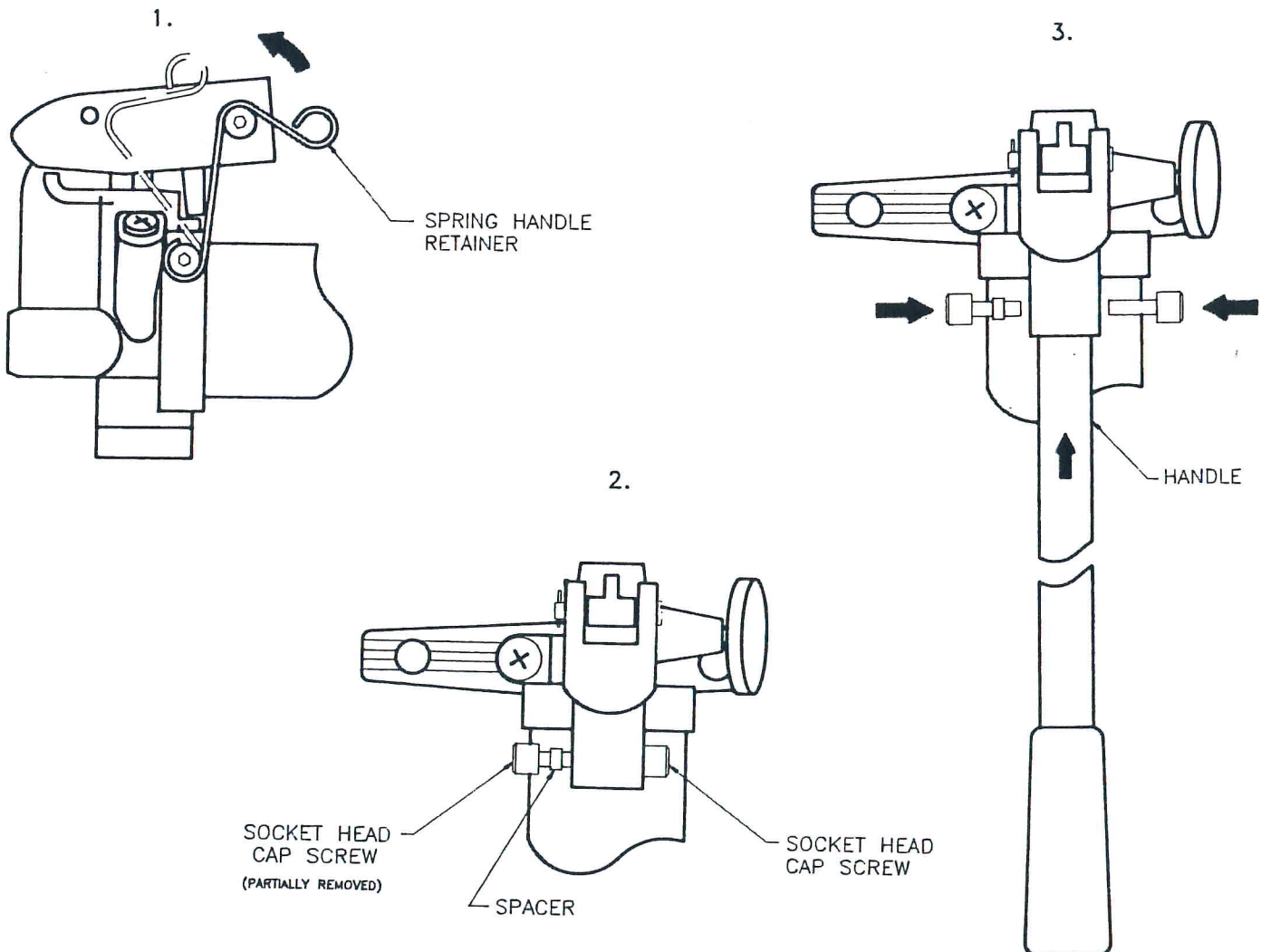
**TUXCO CORPORATION
4300 GROVE AVENUE
GURNEE, IL 60031-2155**

**TEL: (847) 244-2220
FAX: (847) 244-7335**

INSTRUCTIONS FOR INSTALLING HANDLE ON BVA MODEL P601S HAND PUMP

The pump handle has been removed for shipment. To reinstall handle please follow the following instructions.

1. Lift the spring handle retainer off of the socket head cap screw on the left side of the pump lever (figure 1).
2. Using a 3/16" allen wrench (not provided) remove the two socket head cap screws and the spacer from the pump lever, being careful not to lose the spacer (figure 2).
3. Slide the handle into the pump lever, replace the socket head cap screws (figure 3) and tighten securely. The one with the spacer goes on the left side (the same side the spring handle retainer is on).
4. The spring handle retainer is used to lock the handle in the down position, making it easier to transport the pump.
5. If you have any questions please contact Tuxco Corporation customer service at 1-(800) 613-6979 or 1-(847) 244-2220.



**PARTS LIST
FOR
MODEL TC-28
HYDRAULIC TIRE CONSTRICTOR**

<u>ASSEMBLY</u>	<u>PART</u>	<u>QUANTITY</u>
TC-28-1	FRAME, RAM	1
	TC-28-1-1 FRAME, WELDMENT	1
	TC-28-1-2 PLATE, RETAINER	1
	TC-28-1-3 SCREWS, RETAINER, WITH NUTS	2
	TC-28-1-4 PLATE, INSTRUCTION	1
	TC-28-1-5 SCREWS, PLATE, INSTRUCTION	6
	TC-28-1-6 SCREWS, RAM, MOUNT	2
TC-28-2	RAM, HYDRAULIC (SAME AS TC-60-2)	1
	TC-28-2-7 RAM	1
	TC-28-2-8 COLLAR, RAM	1
TC-28-3	HEAD, RAM, ROLLER	1
	TC-28-3-9 HEAD, RAM, WELDMENT	1
	TC-28-3-10 ROLLER	1
	TC-28-3-11 SHAFT, ROLLER WITH RETAINING LOCKS	1
TC-28-4	PUMP, HYDRAULIC (SAME AS TC-60-4)	1
	TC-28-4-12 BODY, PUMP	1
	TC-28-4-13 HANDLE, PUMP	1
	TC-28-4-14 GRIP, HANDLE, PUMP	1
TC-28-5	HOSE, HYDRAULIC (SAME AS TC-60-5)	1
TC-28-6	TCA ADAPTER, AIR (SAME AS TC-60-6)	1
TC-28-7B	BELT, 2" X 38', DACRON	1
TC-28-8	MANUAL, INSTRUCTION	1

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