

# TEXAS PNEUMATIC TOOLS, INC.

Service, Operation AND Parts Manual



**TX2LTCS**

**TX2PTCS**

**TX2LRCS**

TOOL SPECIFICATIONS

PART #	WEIGHT	LENGTH	CFM CONSUMED	BORE	STROKE	INLET	MINIMUM HOSE SIZE
TX2LRCS	10.6 lbs. / 4.8 kg	35" / 0.9 m	20 CFM	.9375"	2"	1/2" NPT	1/2"
	12.75 lbs. / 5.8 kg	47" / 1.2 m	34 CM/hr	24 mm	51 mm	13 mm	13 mm
	14.94 lbs. / 6.8 kg	60" / 1.5 m					
TX2PTCS	6.3 lbs. / 2.86 kg	20" w/ Chisel 50.8 cm	18 CFM 31 CM/hr	.9375" 24 mm	2" 51 mm	1/4" NPT 6 mm	1/2" 13 mm
TX2LTCS	6.5 lbs. / 2.95 kg	19.25" w/ Chisel 48.9 cm	21 CFM 35 CM/hr	.9375" 24 mm	2" 51 mm	1/4" NPT 6 mm	1/2" 13 mm

~ Made in U.S.A. ~

[www.airtools.com](http://www.airtools.com)

Email: [tptinfo@airtools.com](mailto:tptinfo@airtools.com)

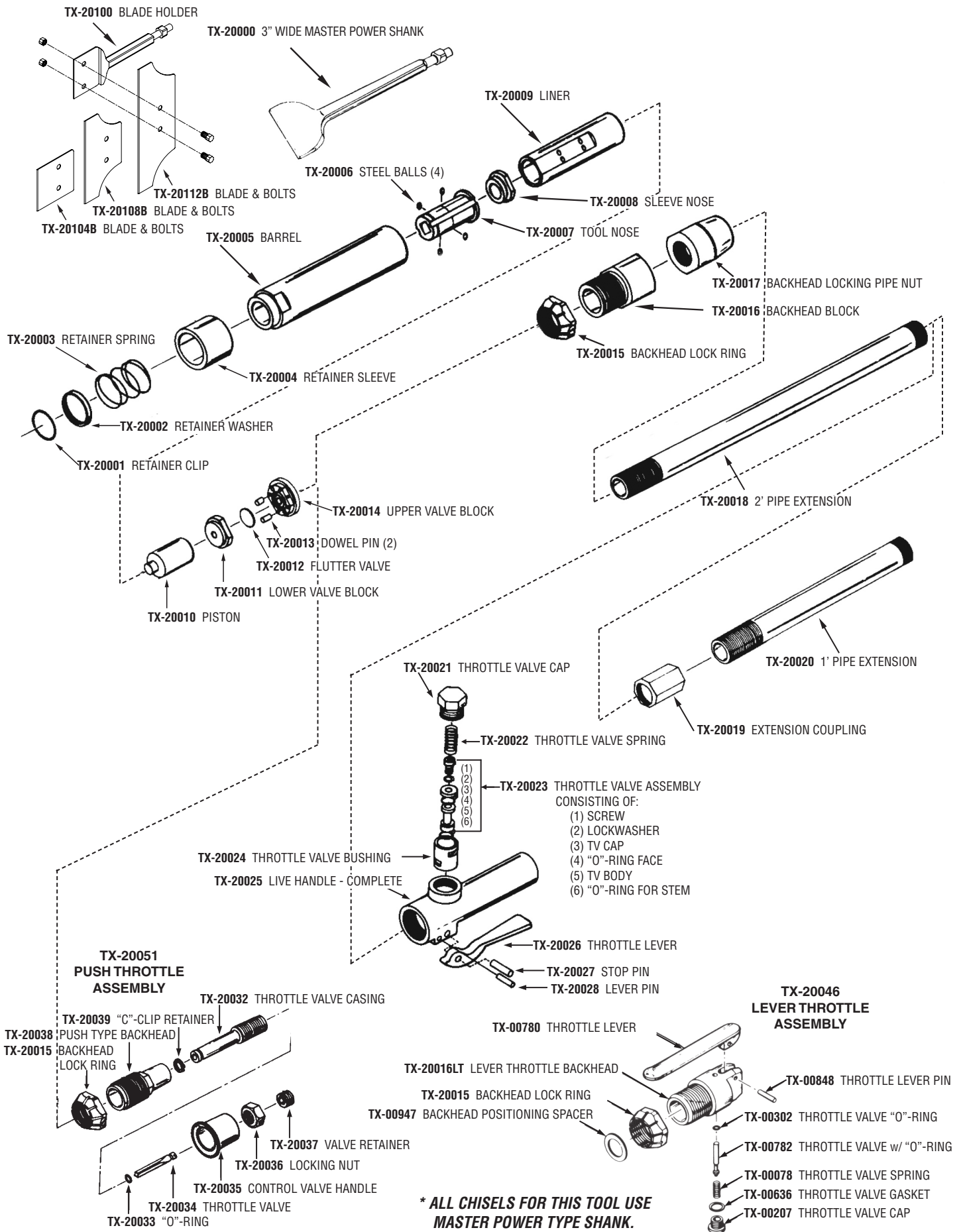
**TEXAS**  
1-800-231-9740  
254-587-2533 (Int'l calls)

**NEVADA**  
1-800-858-1222

**VIRGINIA**  
1-800-626-1091

# TX2LR / TX2PT / TX2LT SERIES

# CHISEL SCALERS



# Service and Operations

## HEAVY HITTER LONG REACH SCALERS

### AIR SUPPLY

For efficient performance, a regulated supply of clean, dry air is required (90 p.s.i. at the tool). Most air tools will give superior service if the air is moisture free and lubricated, plus down time will be minimized. If the compressor is pumping excessive water, a cooler or moisture separator (TX-MSS-400 or TX-MSS-800) should be attached to the compressor or air line. A filter, pressure regulator and Texas Pneumatic in-line lubricator (TX-0L) should be part of the air line system to the tool. The air supply line should be a minimum 1/2" I.D. hose with no restrictive couplings or fittings in the hose line. If quick disconnect air couplings are used, they should definitely be separated from the tool by the use of a hose whip (TX-3HW).

### LUBRICATION

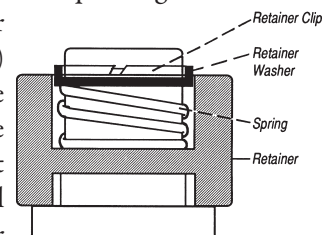
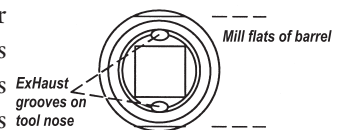
An in-line lubricator such as the Texas Pneumatic TX-0L is recommended. If an automatic lubricator is not used, it is recommended before using and after 2-3 hours use to pour several drops of oil into the air inlet port. Texas Pneumatic Lubricating Oil (TX-PL001) or 5 wt. oil of good grade is recommended. A heavy oil will cause loss of power and efficiency. In the matter of preventative maintenance, Texas Pneumatic Tool Flush (TX-TF001) or similar solvent can be used to flush the tool. Add a couple of teaspoons to the air inlet port and operate the tool for a few seconds. It may be necessary to do this several times. The above should be done anytime the tool becomes sluggish or erratic or stops working. Flushing of the tool will most likely remove any foreign particles. After flushing and always before storage (this is most important if the air line has excessive moisture), the tool should be re-lubricated to prevent rust which will cause the tool to malfunction.

### PREPARING FOR OPERATION

To insert the chisel, pull the Retainer Sleeve (TX-20004) away from the Barrel (TX-20005). Insert the chisel shank into the Tool Nose (TX-20007). Release the Retainer Sleeve and the chisel is locked in place. Always operate the tool with a chisel in place and firmly against the work surface. Damage to the Tool Nose (TX-20007) or Sleeve Nose (TX-20008) may occur if the tool is not held against the work surface.

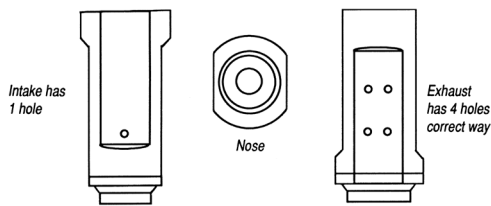
### DISASSEMBLY AND ASSEMBLY:

- Retainer Sleeve:** Place the tool in a vice with the Retainer Sleeve (TX-20004) facing upward. **It is advisable to have at least two people (four hands) for disassembly and assembly of the Retainer Sleeve.** With two  $\frac{3}{16}$ " flat punches, press down on the Retainer Washer (TX-20002). The punches need to be placed above the exhaust grooves on each side of the Tool Nose (TX-20007) to allow the Retainer Washer and Retainer Spring to be depressed inward. Once the Retainer Clip (TX-20001) is exposed by pressing the Retainer Spring inward, use a pick to unseat the clip from its groove. This is where the second set of hands is useful. Once the Retainer Clip has been removed, The Retainer Washer, Retainer Spring (TX-20003), Retainer Sleeve, and Steel Balls (TX-20006) can be removed from the Tool Nose. To assemble the Retainer Sleeve on the Tool Nose, place the four Steel Balls into the holes on the Tool Nose. Place the Retainer Sleeve over the Tool Nose. The Retainer Sleeve has a deep pocket on one side and a shallow pocket on the other. The shallow pocket goes to the Barrel side and will rest against the Barrel. Insert the Retainer Spring (TX-20003) over the Tool Nose and into the Retainer Sleeve. Place the Retainer Washer (TX-20002) with its flat side toward the spring. The groove side of the Retainer Washer must face outward in order to hold the Retainer Clip. Use the  $\frac{3}{16}$ " flat punches to press the Retainer Washer and Retainer Spring inward. As described above, the punches must align with the exhaust grooves in the Tool Nose. Once the retainer groove on the Tool Nose is exposed, insert the Retainer Clip into the groove. Make sure the Retainer Clip is seated into the groove of the Tool Nose so the Retainer Washer will surround the Retainer Clip once the spring is allowed to return to its natural position. The Retainer Clip should be flush with the Retainer Washer if properly installed. (see illustration)



# Service and Operations

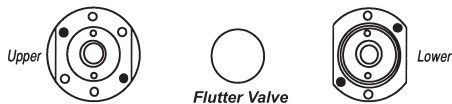
2. **Tool Nose and Liner:** With the Retainer Assembly removed as described above, the Tool Nose (TX-20007), Sleeve Nose (TX-20008) and Liner (TX-20009) can be pressed from the Barrel (TX-20005). The Backhead Block (TX-20016) and Valve Block parts must be removed before pressing out the Tool Nose and Liner. The procedure



for removing the Backhead Block is detailed below. To assemble the Tool Nose and Liner with the Barrel, first press the Tool Nose into the Barrel. Align the exhaust grooves of the Tool Nose with the flat areas on the end of the Barrel. Once the Tool Nose is in position, insert the Sleeve Nose (TX-20008) and allow it to rest on the end of the Tool Nose. The flats of the Sleeve Nose must be oriented with the exhaust grooves of the Tool Nose, and make sure the side that fits

the Liner is facing the Liner. Before pressing the Liner into the Barrel, it must be oriented correctly. The Liner has four flat areas. Two of the flat areas have four holes and the other two flat areas have one hole. The sides with four holes are the exhaust sides. The flat areas of the exhaust sides must align with the exhaust grooves in the Tool Nose and must face the Tool Nose. Improper alignment will not allow the tool to operate.

3. **Backhead Block, Lever Throttle Assembly or Push Throttle Assembly:** For the Backhead Block (TX-20016), it may be necessary and easier to unscrew the Extension Pipe (TX-20018 or TX-20020) and Backhead Locking Pipe Nut (TX-20017) from the Backhead Block before unscrewing the Backhead Block from the Barrel (TX-20005). Once these are removed, lock a chisel into the Tool Nose, and clamp the chisel into a vice. This will keep the Barrel from rotating during the disassembly and assembly process. Loosen Backhead Lock Ring (TX-20015) from the Barrel. Unscrew Backhead Block or Throttle Assemblies from the Barrel. Once the Backhead Block or Throttle Assemblies have been removed from the Barrel, all of the Valve parts (TX-20011, TX-20012, TX-20013 & TX-20014) and Piston (TX-20010) can be removed from the Barrel. Inspect and replace Piston and Valve parts if necessary. In order to place the Valve parts into position, it is necessary to turn the Barrel over and insert the Valve assembly up into the Barrel. This procedure will keep the Valve parts in place. Make sure to insert the Piston into the Liner before inserting the Valve assembly. Secure the Chisel back into the vice. Screw the Backhead Block, Throttle Valve Assembly (TX-20046) or Push Throttle Assembly (TX-20051) into the Barrel and tighten. Screw the Backhead Lock Ring (TX-20015) down to the Barrel and tighten.
4. **Valve:** The Valve Assembly has four components which are the Lower Valve Block (TX-20011), Upper Valve Block (TX-20014), Flutter Valve (TX-20012) and Dowel Pins (TX-20013). The Valve Assembly is easily removed from the Barrel as previously described. Once removed, make sure all ports are clean and free from debris.



Reassemble the Valve starting with the Lower Valve Block. The Lower Valve Block is flat on two sides. Insert the Dowel Pins into the holes on either side. The Dowel Pins will only fit into one hole on either side. The other hole is for the operation of the Valve. Place the Flutter Valve

into the center, and place the Upper Valve Block over the Lower Valve Block. The flats of the Upper Valve Block will align with the flat sides of the Lower Valve Block. The Valve Assembly is ready to be inserted into the Barrel. The procedure for inserting the Valve Assembly into the Barrel was previously noted.

## TX2LR-RK REPAIR KIT

PART#	PART#
TX-20001 (1)	TX-20012 (1)
TX-20002 (1)	TX-20013 (2)
TX-20003 (1)	TX-20022 (1)
TX-20006 (1 set)	TX-20023 (1)
TX-20010 (1)	TX-20028 (1)

## CHISELS AVAILABLE \*

MODEL#	DESCRIPTION
TX-20000	3"W x 7 1/2"L Flat Chisel
TX-20029	3/4"W x 5 1/2"L Flat Chisel
TX-20030	1 3/8"W x 5"L Flat Chisel
TX-20031	1 3/8"W x 5"L Spoon Chisel
TX-20104	4"W x 9 3/4"L Scraper Chisel Assembly
TX-20108	8"W x 9 3/4"L Scraper Chisel Assembly
TX-20112	12"W x 9 3/4"L Scraper Chisel Assembly