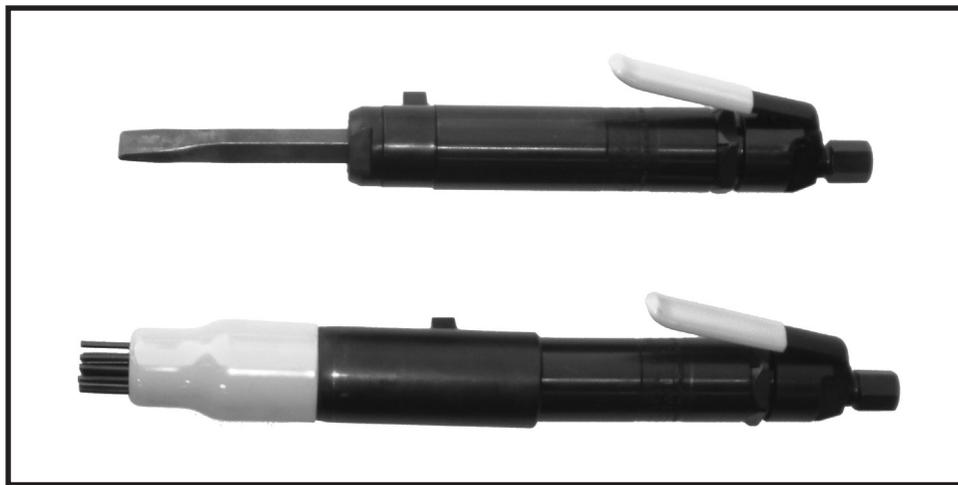


TEXAS PNEUMATIC TOOLS, INC.

Service, Operation AND Parts Manual

TX1B

SAFETY RETAINER TYPE SCALERS



TOOL SPECIFICATIONS

PART #	WEIGHT	SHIPPING WT. BOX OF 6	LENGTH	CFM CONSUMED	BORE	STROKE	BPM	INLET	MINIMUM HOSE SIZE
TX1B-LTCS	4 lbs.	30 lb. 3 oz.	15" w/ chisel	12 CFM	1"	1-1/8"	4600	1/4"NPT	3/8"
TX1B-LTNS	6 lbs.	40 lbs.	17" w/ 5" needles	12 CFM	1"	1-1/8"	4600	1/4"NPT	3/8"
STANDARD WELD FLUX SCALERS: Model TX1B									
STANDARD EQUIPMENT: With Needle Scaler: 1 set 5" Scaler Needles With Weld Flux Scaler: 1 - 7" Flat Chisel									
DESCRIPTIVE SUFFIXES FOLLOWING "B" TO FURTHER DESCRIBE TOOL: LT = Lever Throttle PT = Push Type Throttle NS = Needle Scaler CS = Chisel Scaler									

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254-587-2533 (Int'l calls)

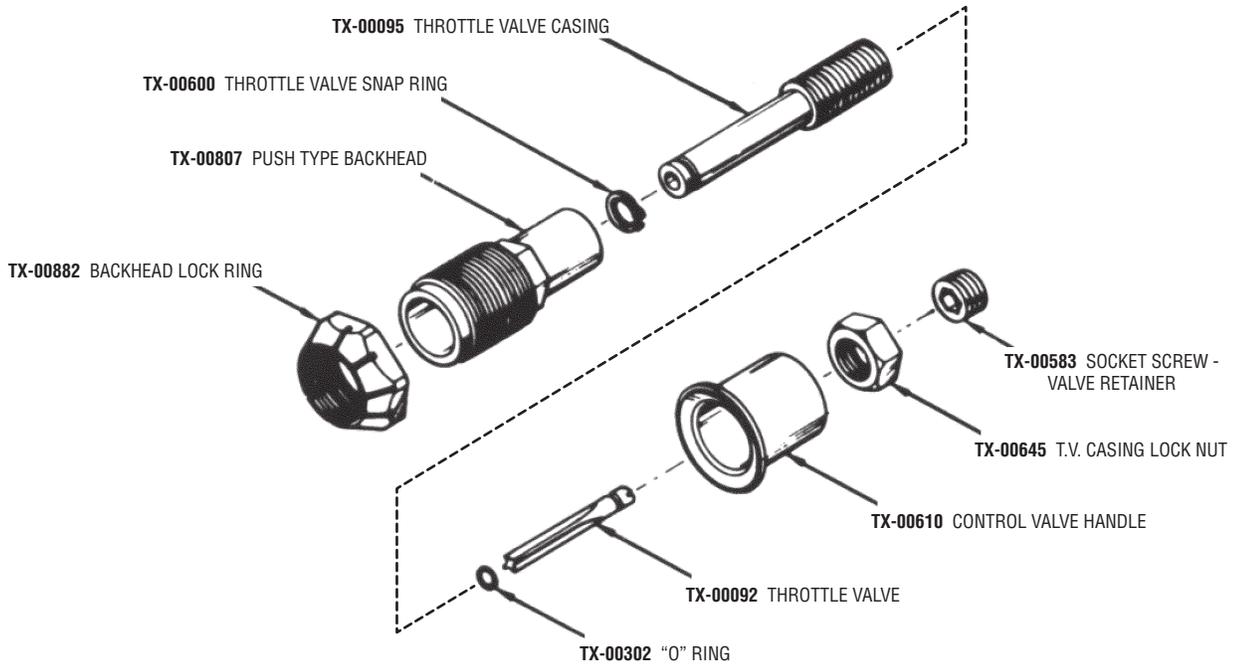
NEVADA

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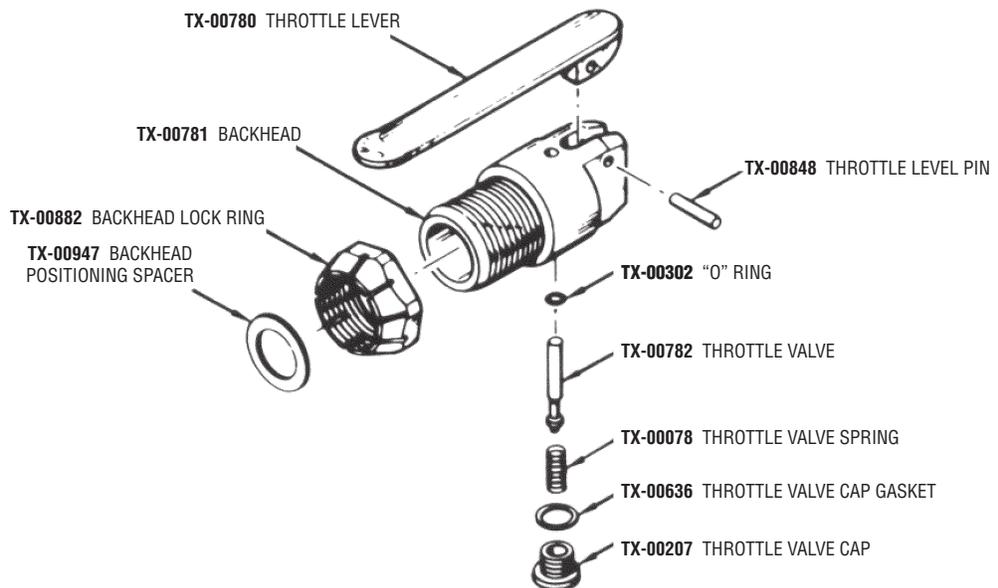
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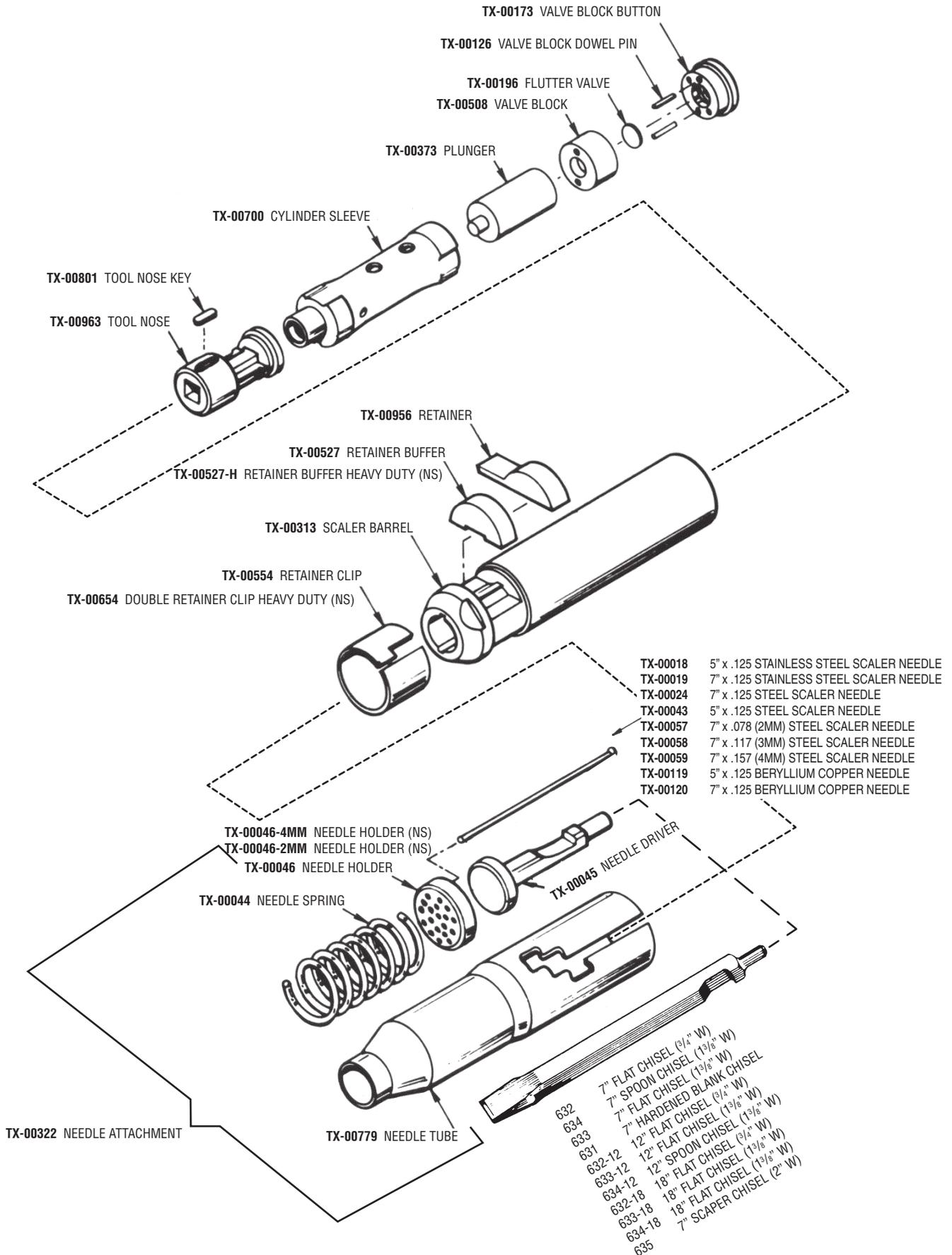
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**PUSH THROTTLE
BACKHEAD ASSEMBLY
TX-00219**



**LEVER THROTTLE
BACKHEAD ASSEMBLY
TX-00851**





* (NS) Not Shown

Service and Operations

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 3/8" 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-1HW).

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 scaler 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.

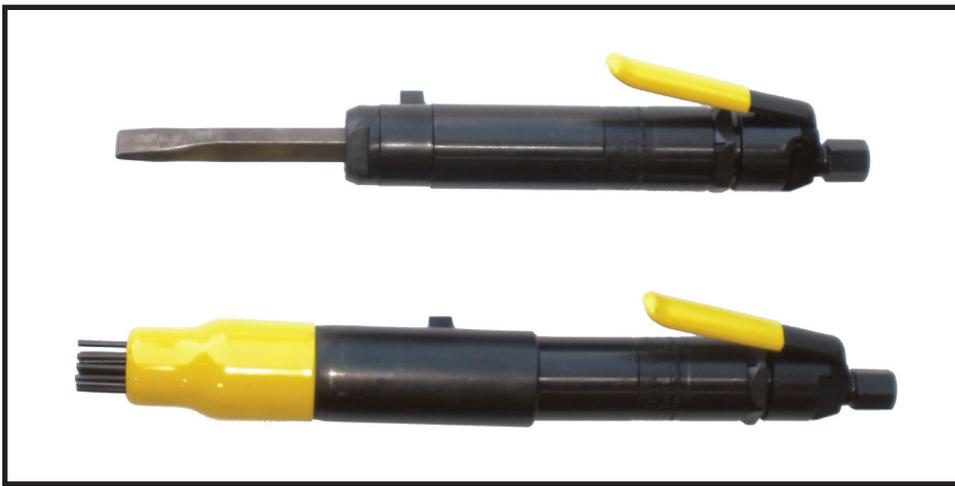
PREPARING FOR OPERATION

The TX1B is convertible and can be used either as a chisel scaler or as a needle scaler depending on the application. To remove the chisel, pull up on the retainer (TX-00956). This should allow the chisel to slide out of the tool. To place chisel in tool, do the reverse but making sure the chisel slot faces the retainer. The same applies to the needle driver (TX-00045). Always operate the scaler with a chisel or needle driver in the tool and held firmly against the work surface. Damage to the tool nose (TX-00963), cylinder sleeve (TX-00700) and retainer buffer (TX-00527) may occur if the tool is not held against the work surface. The backhead should be checked occasionally to make sure it is tight. On lever throttle scalers, Loctite is used on the throttle valve cap (TX-00207) when assembled at the factory. This should not be in need of attention until the cap is removed for inspection or repair. The use of Loctite is strongly recommended when replacing the cap to prevent it from vibrating loose. The "O" ring (TX-00302) on the throttle valve (TX-00782) should be replaced whenever the tool is inspected, plus the throttle valve spring (TX-00078) and the flutter valve (TX-00196) if they appear worn. It is suggested that high wear parts such as retainers (TX-00956), retainer buffers (TX-00527) and retainer clips (TX-00554) be kept on hand as back-ups. To disassemble the tool, remove the retainer clip (TX-00554), retainer (TX-00956) and retainer buffer (TX-00527). Place the flats on the end of the barrel in a brass jawed vice and then unscrew backhead lock ring (TX-00882) until it is loose; then unscrew backhead (TX-00781) and remove. Valve parts (TX-00173, TX-00508, TX-00196) and plunger (TX-00373) will fall out when tool is turned upside down. To remove tool nose (TX-00963) and cylinder sleeve (TX-00700), it is necessary to press them from the front part of the barrel out through the rear of the barrel. Re-assembly is in reverse order. Use TX1B-TK tool kit to aid with disassembly and re-assembly.

Last, but most importantly, approved safety glasses should be worn at all times when operating this or any other percussion tool.

TX1B

NEEDLE / CHISEL SCALERS



Features

- ◆ Made in U.S.A.
- ◆ Super quality heat treated parts for durability
- ◆ Tools have been proven in thousands of applications
- ◆ Hundreds of thousands of these tools are in the field
- ◆ Completely convertible from needle to chisel scaler & vice versa

Applications

- ◆ De-rusting and cleaning of metals
- ◆ Peening of welded joints
- ◆ Cleaning welding slag
- ◆ Removing paint, rust and dirt
- ◆ Chipping stone, concrete and brick
- ◆ Needle scalers adjust to any surface contour automatically

TOOL SPECIFICATIONS

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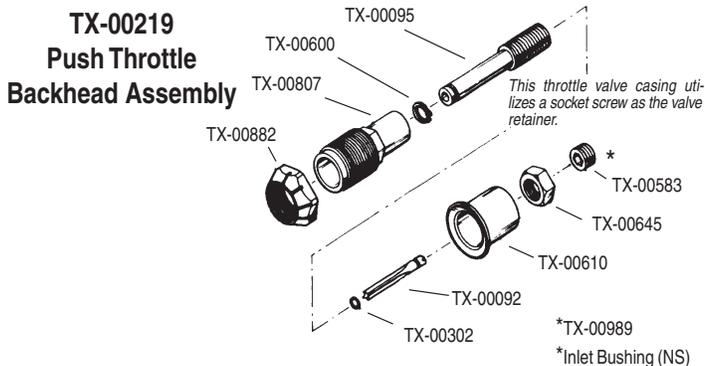
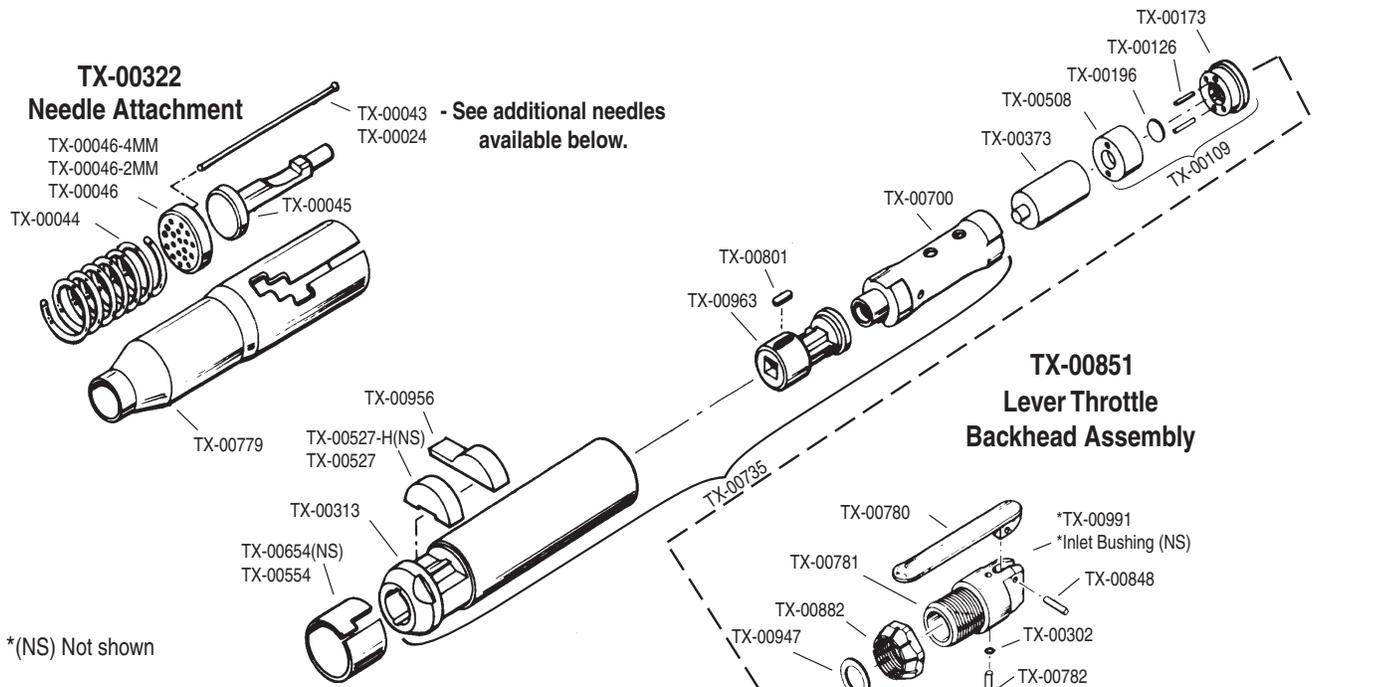
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TX1B Needle / Chisel Scalers



Part List

PART #	DESCRIPTION
TX-00024	7" STEEL SCALER NEEDLE
TX-00043	5" STEEL SCALER NEEDLE
TX-00044	NEEDLE SPRING
TX-00045	NEEDLE DRIVER
TX-00046	NEEDLE HOLDER
TX-00046-2MM	2MM NEEDLE HOLDER
TX-00046-4MM	4MM NEEDLE HOLDER
TX-00078	THROTTLE VALVE SPRING
TX-00092	THROTTLE VALVE PUSH TYPE (Includes TX-00302)
TX-00095	THROTTLE VALVE CASING (Includes TX-00583)
TX-00109	VALVE BLOCK ASSEMBLY (TX-00508, TX-00173, TX-00196, TX-00126)
TX-00126	VALVE BLOCK DOWEL PIN
TX-00173	VALVE BLOCK BUTTON
TX-00196	FLUTTER VALVE
TX-00207	THROTTLE VALVE CAP
TX-00219	PUSH THROTTLE BACKHEAD ASSEMBLY (As shown)
TX-00302	THROTTLE VALVE "O" RING
TX-00313	TX1B BARREL
TX-00322	ROUND NEEDLE ATTACHMENT (As shown - 5" needles standard)
TX-00373	PLUNGER
TX-00508	VALVE BLOCK
TX-00519	NEEDLE SET (19 - 5" x .125)
TX-00527	RETAINER BUFFER
TX-00527-H	RETAINER BUFFER (Heavy Duty)
TX-00554	RETAINER CLIP
TX-00583	SOCKET SCREW - VALVE RETAINER
TX-00600	THROTTLE VALVE SNAP RING
TX-00610	CONTROL VALVE HANDLE
TX-00636	THROTTLE VALVE CAP GASKET
TX-00645	THROTTLE VALVE CASING LOCK NUT
TX-00654	DOUBLE RETAINER CLIP (Heavy Duty)
TX-00700	CYLINDER SLEEVE
TX-00719	NEEDLE SET (19 - 7" x .125)
TX-00735	BARREL ASSEMBLY (TX-00700, TX-00963, TX-00801, TX-00313)
TX-00779	ROUND NEEDLE TUBE
TX-00780	THROTTLE LEVER (5/16" SLOT)
TX-00781	BARE LEVER TYPE BACKHEAD (5/16" SLOT)
TX-00782	THROTTLE VALVE (INCLUDES "O" RING)
TX-00801	TOOL NOSE KEY
TX-00807	BARE PUSH TYPE BACKHEAD
TX-00848	THROTTLE LEVER PIN
TX-00851	LEVER TYPE BACKHEAD ASSEMBLY (As shown)
TX-00882	BACKHEAD LOCK RING
TX-00947	BACKHEAD POSITIONING SPACER
TX-00956	RETAINER
TX-00963	TOOL NOSE
TX-00989	P/T INLET BUSHING 1/4" x 1/4"
TX-00991	L/T INLET BUSHING 3/8" x 1/4"

Chisels Available for TX1B:



ARROW #	MODEL #	DESCRIPTION
632	TX-00047	7" FLAT CHISEL (3/4" W)
634	TX-00048	6-1/2" SPOON CHISEL (1-3/8" W)
633	TX-00049	6-1/2" FLAT CHISEL (1-3/8" W)
631	TX-00050	7" HARDENED BLANK CHISEL
632-12	TX-00051N	12" FLAT CHISEL (3/4" W)
633-12	TX-00051W	12" FLAT CHISEL (1-3/8" W)
634-12	TX-00052	12" SPOON CHISEL (1-3/8" W)
632-18	TX-00054N	18" FLAT CHISEL (3/4" W)
633-18	TX-00054W	18" FLAT CHISEL (1-3/8" W)
634-18	TX-00055	18" SPOON CHISEL (1-3/8" W)
635		7" SCRAPER CHISEL (2" W)

Needles Available For All Models:

MODEL #	DESCRIPTION
TX-00018	5" x .125 STAINLESS STEEL SCALER NEEDLE
TX-00019	7" x .125 STAINLESS STEEL SCALER NEEDLE
TX-00024	7" x .125 STEEL SCALER NEEDLE
TX-00043	5" x .125 STEEL SCALER NEEDLE
TX-00057	7" x .078 (2MM) STEEL SCALER NEEDLE
TX-00058	7" x .117 (3MM) STEEL SCALER NEEDLE
TX-00059	7" x .157 (4MM) STEEL SCALER NEEDLE
TX-00119	5" x .125 BERYLLIUM COPPER NEEDLE
TX-00120	7" x .125 BERYLLIUM COPPER NEEDLE