

## T14062 & T23221 GE Piston Retainers

**1 - T14062** This tool is extremely useful when removing power assemblies by retaining the piston and rod in the liner. It also has wide use as a power assembly shipping aid.

**2 - T23221** This retainers main use is to aid conn rod bearing change outs by positioning the piston high in the cylinder and allowing for the crank shaft to be rotated out of rod bore. Once the bearing shells have been replaced, the crank shaft can be rotated back into the bore.



## T18592 GE Piston Lifter

The model T18592 piston and connecting rod lifter has been designed to eliminate the nuisance of screws and fittings that loosen with use, common on the earlier model T18590.

This model features a snap open, snap closed operation with a safety catch in the closed position. We feel it is considerably easier to operate than all prior piston and rod lifters.

## T10892 Piston Ring Compressor

A must tool for assembling the piston with rings into the liner. A 9.000" diameter is ensured, which enables easy liner installation. All hinge loops have been welded to ensure bore integrity with use.



## T19510 GE Piston Protector

The piston protector is clamped to a piston that has been exposed in an engine and provides protection from damage that may occur, should the engine be barred over to perform other maintenance. The protector slides up and down the main frame bore instead of the piston body.





### T10980 Piston Ring Groove Scraper

This scraper is used to clean piston ring grooves prior to placing new piston rings on pistons. This operation ensures that the new rings can travel freely in the ring lands.

### T10900 Piston Support Bar

This bar is inserted into the main frame bore under the piston skirt, positioning the piston properly to accept installation of the cylinder assembly. The piston position can be aligned by barring the crankshaft.



### T10992 GE Piston Ring Expander

This tool aids placement of new piston rings over the piston diameter and onto the appropriate ring land. It eliminates over stressing piston rings.

### T18411 Piston Pin Bolt Torque Kit



This kit was developed to allow torquing and removal of piston pin bolts by one machinist. Earlier T18410 wrenches required a second machinist to react the input of the wrench and ensure that the input location remained in line with the bolt. The new kit provides a guide cap that locates and reacts the input of the new wrench. (see above photo)

1	T18411C Cap
2	T18410 Wrench
3	T15110 15/16" 12 Pt. 3/4" drive socket



## T10310

### Piston Ring Gauge & Micrometer Standard for 9.000" Bore

This tool has a 9.000 inch bore and is useful to measure piston ring wear (gap). A slot in the side of the box allows entrance of feeler gauges to measure the gap. Also, zeroing the cylinder liner bore gauge is accommodated by the 9.000" bore. Cylinder liner wear can be measured in this manner.

## T21481 Single-Valve Spring Compressor

The single valve spring compressor is used to compress one valve spring at a time. This allows for valve spring retainer removal or installation.

This tool can also be used on the diesel engine by applying the T21500 air valve adapter in the compression relief hole and barring the engine over until all 4 valves are closed and the piston positioned at top dead center. Shop air is supplied to the air valve adapter thus forcing the valves to seat. Valve rotators and broken valve springs can be replaced in this manner. Install tool as illustrated in photo.



**T21481** Single Valve Spring Compressor  
**T21500** Air Valve Adapter (not shown)



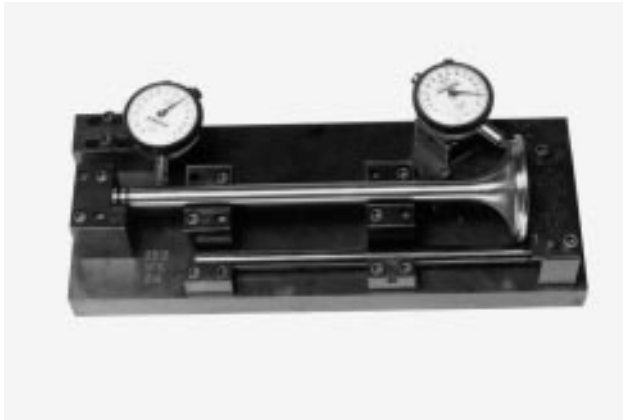
Manual Kit - T19450 Mult. Valve Spring Compressor

## T19450 Multiple Valve Spring Compressor

This valve Spring Compressor will compress all four valve springs at one time allowing easy installation and removal of the valve spring keepers.



T19590 Hydraulic Ram and Pump Set



### T16791 Valve Checking Fixture

The valve checking fixture is used to re-qualify engine valves after rework. Valve stems can be checked for straightness, minimum diameter and proper length of keeper groove to stem end. Valve head thickness and seat run-out can be measured for both 15° and 45° valves. Valve head concaveness can also be measured.

This fixture is equipped with one each 15° and 45° head gauges and a .5515 minimum stem diameter master mandrel for zeroing the stem checking gauge.



### T14420 Fuel Tappet Rod and Valve Guide Driver

These drivers are essential to drive new valve guides in cylinder heads and to drive the fuel tappet rod guide into the cylinder jacket when rebuilding cylinder assemblies.

1	T14420	Valve Guide Driver
2	T14430	Fuel Pump Tappet Rod Guide Driver

### T52060 Cylinder Valve Setting Gauge

This feeler gauge features two feeler ends, .030 for exhaust valve setting and .020 for inlet valve setting. Both ends are also bent to accommodate ease of placement.

T52060-.020	Replacement Tip
T52060-.030	Replacement Tip



### T10471 Valve Seat Grinding Set



These sets are used to face valve seats in cylinder heads. Grinding wheels are finished for 45° seats on one side and 15° seats on the other. The sets come complete with metal box. The older 115 Volt and 230 Volt Drivers (like the one pictured here), have been superseded to the T10471AD Air Driver.

1	T10471AD	Air Driver - Previous Electric Models No longer available
2	T10550	Dressing Tool
3	T18810	Grinding Tool - Rough
	T18820	Grinding Tool - Finish
	T10610	Grinding Wheel - 30 Degree
4	T10620	Tapered Pilot 9/16" Standard
	T10630	Tapered Pilot .001 Oversize
	T10640	Tapered Pilot .002 Oversize
	T10650	Tapered Pilot .003 Oversize
	T10660	Tapered Pilot .004 Oversize
	T10670	Tapered Pilot .005 Oversize
5	T10500	Dial Indicator
6	T10510	Spring
7	T10540	Wheel Holder (2 Required)

### T59280 Piston Torque Kit

The T59280 kit is used to remove the four crown bolts from the piston, while still in the car body. The long extension is useful for reaching the bolts located on the far side of the piston, while the 10" short extension is used for the closest two bolts. The 3/4" socket is used to drive the extensions.



2	T59280 Piston Torque Kit
	26 - 7/8" Extension - 3/4" Hex Drive with solid end
	10" Extension - 3/4" Hex Drive with solid end
	1/2" Drive 3/4" Socket

### T59281 Piston Torque Kit

The T59281 kit is used to replace and torque the 1/2" 12 point replacement bolts. There are two different extension ends available: the standard 1/2" 12 point socket, and the 1/2" 12 point deepwell socket. These are also driven with the 3/4" socket.

1	T59281 Piston Torque Kit
	26 7/8" Extension - 3/4" hex drive with 1/2" 12 point deep well socket
	10" Extension - 3/4" hex drive with 1/2" 12 point standard socket
	1/2" drive 3/4" socket

1	T59281	Piston Torque Kit
2	T59280	Piston Torque Kit
3	T59280SE	Solid End Replacement for T59280 Kit
4	T59281SS	Standard 1/2" 12 point Socket
5	T59281DS	1/2" 12 point Deepwell Socket
6	T59560	Flexible Speeder equipped with either 3/8" ball end or 1/2" 12 point socket
7	T59530	0-150 degree thermometer - magnetic mount
8	T59280AD	3/4" hex to 1/2" male adapter
9	T5454A	15" long 1/2" drive - 45 tooth ratchet
10	T4600	24" long 3/4" drive - 45 tooth ratchet (heavy duty)