



Transportation Equipment Supply Company

**Manufacturers of Specialty Locomotive Workshop Tools for
General Electric and EMD Diesel Locomotives**

EXCLUSIVE DISTRIBUTORS in Argentina



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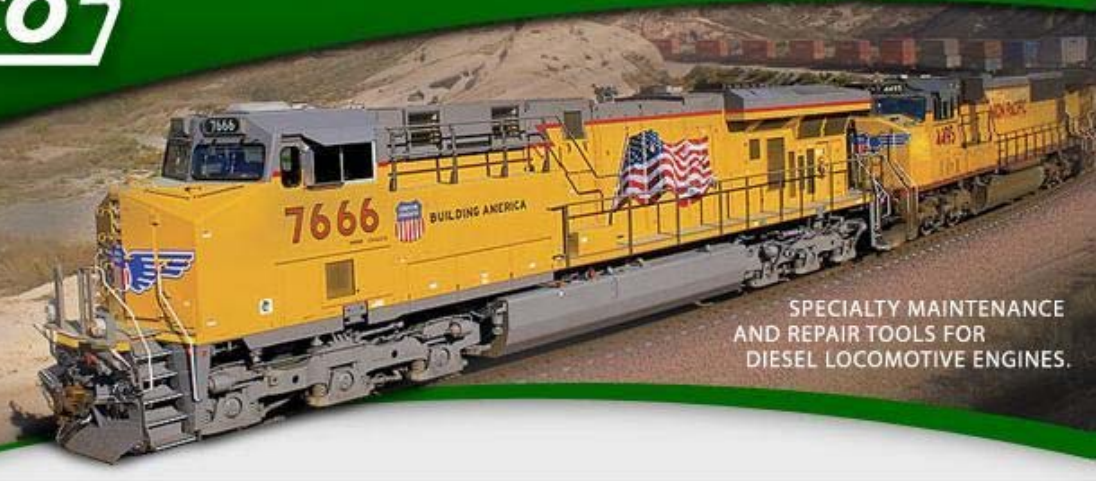


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SPECIALTY MAINTENANCE
AND REPAIR TOOLS FOR
DIESEL LOCOMOTIVE ENGINES.

About Tesco and our international distributor - American Equipment Company (AMECO)



TESCO Tools was founded in 1978 by Chris F. Fette with the goals of providing the highest quality maintenance and repair tooling available and continually designing new tools to keep current with changing applications and challenges. Since that time, we have invested considerable resources to maintain our technological edge by adding new and current CNC machinery, fabrication equipment, and personnel training.

TESCO Tools has an agreement with American Equipment Company (AMECO) to serve as the *exclusive international distributor* of Tesco Tools GE and EMD locomotive specialty tools. AMECO, well known international distributors of railroad equipment, machinery and tools worldwide, represents TESCO Tools through its local sales offices and representatives. AMECO will offer a high level of customer service and knowledge concerning international supply of quality tools and service.



TESCO currently manufactures and distributes over 2,000 different tools, including torque adapters, hydraulics, pneumatics, specialty fixtures and heavy-duty lifting equipment. We currently serve every major domestic railway, the two locomotive manufacturers, and several railways worldwide. In addition, we are closely involved with various railway ergonomics and safety committees to create safe and user-friendly tools and applications. Our tools greatly enhance the productivity of maintenance personnel and allow work practices to be carried out in a safe manner—meeting OEM specified procedures.

Our complete operation is housed in one 30,000 square-foot building, including a modern 6,000 square-foot office. The entire manufacturing bay is served by a 10-ton overhead crane; and, our fabrication facility is served by a custom jib crane/monorail system designed to handle even the most difficult material.



Our machining center now contains six individual CNC machines in addition to a full complement of manual mills and lathes. It is important to us, even during the slow times, to upgrade and to maintain our resources in order to stay on the cutting edge of industry standards.

We have a custom certification platform with fixtures that allow us to certify under the hook-lifting devices to well over 150,000 lbs. All special assembly work is processed in a clean room to avoid any possible contamination.



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

GENERAL ELECTRIC
Maintenance and Repair Tools for Running Maintenance
and Backshops.

A. General Maintenance Tools

B. Cylinder and Head

C. Piston and Valves

D. Main Bearing and Crankshaft
1. Including barring over devices

E. Connecting and Art Rods

F. Camshaft

G. Fuel Injection
1. Including a special EFI fuel injection section

H. Turbocharger

I. Governor

J. Traction Motor

K. Test and Control

L. Miscellaneous



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

A. General Maintenance

A1.

T24302 Tool Cart

A2.

T24303 EFI Tool Cart

T54910 Machinist Hand Tool Cart

A3.

T51750 Cooling System Tester

A4.

T19272 Machinists Hand Tool Set

A5.

T16940 Impact Wrench Set (1/2" Drive)

T17290 Impact Wrench (3/4" Drive)

A6.

T57580 Torque Wrench Analyzer Input Adapter Set

T18961 Torque Wrench Tester

A7.

T19820 Barring Over Wrench (1" Square Drive)

T18231 Connecting Rod Cap Bolt Wrench

T23501 Turbocharger Mounting Bolt Removal Wrench

T54120 Dynamic Braking Grid Wrench

T16491 30-150 lb.ft. Torque Handle

T51432 Exhaust Manifold Flange to Cylinder Bolt Adapter

T18250 0-1000 lb.ft. Torque Wrench

T18230 100-600 lb.ft. Torque Wrench

T22520 30-250 lb.ft. Torque Wrench

T300T-I 100-300 lb.ft. Torque Handle

T200T-I 45-200 lb.ft. Torque Handle

T54930W 45-220 lb.ft. Torque Handle

T18220 4-75 lb.ft. Torque Wrench

T20710 50-250 lb.in. Torque Wrench

A8.

T17801 Box Wrench Torque Kit

T12940 General Purpose Puller Set



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

A9.

T11431	G-N Metal Assembly Paste
T24890	LOCTITE Threadlocker
T18981	LOCTITE 609 Retaining Compound
T16400	Fel Pro Copper Compound
T21630	Lubriplate
T16380	Scotch 1/2" Thread Sealant
T55570	GE Exhaust Manifold to Cylinder Torque Wrench Kit



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T24302 Tool Cart for GE Engines

This is a complete tool cart with all the tools required for power assembly and turbocharger removal/installation for an engine equipped with a mechanical fuel system. The cart is equipped with 4 wheels (2 with brakes) and hand grips for steering, as well as pick up positions for forklift trucks. A fixture is attached to hook directly to shop air that will provide three additional air outlets. A complete EFI Tool Cart listing is on the next page. Combination Mechanical and EFI Tool Carts are also available.

T10402	Rocker Arm Depressor	T15110	Socket 15/16"	T22303	Compression Tester Set
T10892	Piston Ring Compressor	T15171	Adapter	T22520	250 lb. Ft. Torque Wrench
T10900	Piston Support Bar	T15927	Fuel Line Torque Kit	T23221	Piston Retainer
T10980	Piston Ring Groove Scrapper	T16551	Master Rod Lifter	T23500	Turbo Bolt Torque Adapter
T10992	Ring Expander	T17801	Box Wrench Torque kit	T52060	Feeler Gage
T11220	Art Rod Guide Pin	T18230	600 lb. Ft. Torque Wrench	T52051	Cam Shaft Roller Lifter
T11322	Cam Bearing Spanner Wrench	T18250	1000 lb. Ft. Torque Wrench	T24101	Pneumatic Torque Kit
T12300	Timing Tram Bar	T18411	Piston Pin Bolt Wrench	T15804	Governor Tail Rod Jack
T12962	Governor Gap Gage	T18560	Nozzle Knocker	T54551	Cylinder Lifter (Shipped on sep. skid)
T13221	Cylinder Insert Wrench	T18592	Piston & Rod Lifter	T54330	Master Rod Cap Lifter
T13670	(2) Cylinder Installation Guide Pins	T18660	1 1/8" Socket 3/4" drive	T54210	Test Gage Kit
T14062	Piston Retainer	T19162	Turbocharger Lifter	T50370	Inlet Casing Wrench Adapter
T14582	Art Rod Pin Bolt Wrench	T50301	Tool Cart	T18231	Conn Rod Cap Removing Wrench
T14740	Art Rod Pin Retainer	T19510	Piston Protector	T23501	Turbo Mounting BoltWrench
T14740D	Art Rod Pin Retainer (Double Pin)	T20702	Universal Rack Setting Gage	T51750	Cooling System Test Kit
T14921	(2) Conn. Rod Bearing Retainer	T22040	Barring Over Tool	T51431	Exhaust Manifold Torque Adapter



T24303 Tool Cart for EFI Engines

T10402	Rocker Arm Depressor	T22303	Compression Tester Set
T10892	Piston Ring Compressor	T22520	250 lb. Ft. Torque Wrench
T10900	Piston Support Bar	T23221	Piston Retainer
T10980	Piston Ring Groove Scraper	T23500	Turbo Bolt Torque Adapter
T10992	Ring Expander	T52060	Feeler Gage
T11220	Art Rod Guide Pin	T52051	Cam Shaft Roller Lifter
T12300	Timing Tram Bar	T24101	Pneumatic Torque Kit
T13221	Cylinder Insert Wrench	T54551	Cylinder Lifter
T13670	(2) Cylinder Installation Guide Pins	T54330	Master Rod Cap Lifter
T14062	Piston Retainer	T54210	Test Gage Kit
T14582	Art Rod Pin Bolt Wrench	T50370	Inlet Casing Wrench Adapter
T14740	Art Rod Pin Retainer	T18231	Conn Rod Cap Removing Wrench
T14921	(2) Conn Rod Bearing Retainer	T23501	Turbo Mounting Bolt Removal Wrench
T15110	Socket 15/16"	T51750	Cooling System Test Kit
T15171	Adapter	T54931	Fuel Line Torque Wrench
T15926	Fuel Line Torque Kit	T51431	Exhaust Manifold Flange Adapter
T16551	Master Rod Lifter	T55570	Exhaust Manifold Elbow Torque Wrench
T17801	Box Wrench Torque Kit	T56051	Tappet Nut Torque Wrench Kit
T18230	600 lb. Ft. Torque Wrench	T57140	1 1/2" Torque Adapter (Low Pressure)
T18250	1000 lb. Ft. Torque Wrench	T55971	Pushrod Height Adjustment Gage
T18411	Piston Pin Bolt Wrench	T57150R	Fuel Roller Retaining Plate - Right
T18560	Nozzle Knocker	T57150L	Fuel Roller Retaining Plate - Left
T18592	Piston & Rod Lifter	T57161	5mm Nut Runner
T19162	Turbo Lifter	T54441	Camshaft Section Wrench Adapter
T50301	Tool Cart	T55991	Camshaft Segment Lifter
T19510	Piston Protector	T58160	Cam Section Bolt Speeder
T22040	Pneumatic Barring Over Tool	T58440	Barring Arbor
T57160	7mm Nut Runner	T18660	1 1/8" Socket
T56030	Tappet Rod Holder		

T54910 Machinist Hand Tool Cart

This tool cart was developed to aid machinists with transport of their small tools and parts to the locomotive service location. It is equipped with four 8" wheels, two fixed and two swivel. Under the push handle is located a tray to accommodate paper wipe towels.



T51750 GE & EMD Locomotive Cooling System Tester

T51750 - Cooling System Test Kit

- 1 - T51760 Water Regulator Kit
- 1 - T51780 GE Fill Neck Pressure Fixture

T51780 - Fill Neck Pressure Fixture

- 3 - T51850 Tang
- 1 - T51860 Gasket
- 6 - T51870 Screw

T51760 - Water Regulator Kit

- 1 - T51800 Inlet Valve
- 1 - T51790 Water Regulator
- 1 - T51820 1/2" Pipe Cross
- 1 - T51830 Pressure Gage (0-60 PSI)
- 3 - T51840 1/2" Nipple
- 1 - T51800 Dump Valve
- 1 - T51810 Dump Hose
- 1 - T16040 Hose
- 1 - T50150 Cage



This kit is designed to introduce 20 PSI water pressure to the cooling system via the water tank fill neck. The fill neck pressure fixture is placed on the fill neck the same as the locomotive pressure cap and a spring is then compressed to ensure a positive seal at 20 PSI. Other pressures can be utilized depending on railway mechanical specifications from 0-25 PSI.

House water is connected to regulator kit with the inlet valve closed, the dump valve closed and the pressure regulator backed off (minimum spring pressure). The inlet valve is then opened and pressure increased by the regulator to 20 PSI. Once the system is charged, the inlet valve is closed. Pressure should be maintained, otherwise a leak in the system is present.

NOTE: Sufficient time should be allowed for the system to be charged - if inlet valve is closed and the gage immediately reads less than 20 PSI, the system is not charged. Open inlet valve and finish charging system. If leaks are indicated, a full system inspection is required including an engine crankcase inspection.

Once the test is complete, with the inlet valve closed, back off the pressure regulator to minimum spring pressure and open the dump valve to release the water under pressure. Direct the water away from all personnel by holding and directing the dump hose. Once the gage reads "0" and all flow is stopped, the fill neck pressure fixture can be removed. First reduce the spring pressure and then remove the fixture from the fill neck.

The pressure regulator provides a range of 0-27 PSI water pressure and the fill neck pressure fixture spring rate was adjusted to relieve at 27 PSI.



T19272 Machinists Hand Tool Set

This kit was assembled to aid general locomotive maintenance requirements. It has been supplied to shops that require a one part reference for a "General Tool Kit".



T12972	Machinist's Hand Tool Kit	T219957P24	Combination Wrench - 13/16"	T219957P52	Socket - 1 1/16"
T219957P1	Diagonal Cutter	T219957P25	Combination Wrench - 7/8"	T219957P53	Socket - 1 1/8"
T219957P2	Interlocking Joint Pliers	T219957P26	Combination Wrench - 15/16"	T219957P54	Socket - 1 1/4"
T219957P3	Gripping Pliers	T219957P27	Combination Wrench - 1"	T219957P55	Universal
T219957P4	Needle Nose Pliers	T219957P28	Combination Wrench - 1 1/16"	T219957P56	Speeder
T219957P5	Feeler Gages	T219957P29	Combination Wrench - 1 1/8"	T219957P57	Deep Socket - 9/16"
T219957P6	Angled Feeler Gages	T219957P30	Combination Wrench - 1 1/4"	T219957P58	Deep Socket - 3/4"
T219957P7	Flat Chisel	T219957P31	Box Ratchet 3/4" - 7/8"	T219957P59	Hex Head Wrench
T219957P8	Flat Chisel	T219957P32	Screwdriver 8"		3/4" Square Drive Tools
T219957P9	Tapered Punch	T219957P33	Screwdriver 12"	T219957P64	Extension 8"
T219957P10	Tapered Punch		1/2" Square Drive Tools	T219957P65	Ratchet
T219957P11	Pry Bar	T219957P38	Extension 5"	T219957P66	Universal
T219957P12	Mirror	T219957P39	Extension 12"	T219957P67	Extension 16"
T219957P13	Allen Wrench Set	T219957P41	Ratchet	T219957P69	Socket - 1 1/8"
T219957P14	Soft Hammer	T219957P42	Socket - 7/16"	T219957P70	Socket - 1 3/16"
T219957P15	Ball Peen Hammer	T219957P43	Socket - 1/2"	T219957P71	Socket - 1 1/4"
T219957P16	Adjustable Wrench 8"	T219957P44	Socket - 9/16"	T219957P72	Socket - 1 5/16"
T219957P17	Adjustable Wrench 12"	T219957P45	Socket - 5/8"	T219957P73	Socket - 1 3/8"
T219957P18	Combination Wrench - 7/16"	T219957P46	Socket - 11/16"	T219957P74	Socket - 1 7/16"
T219957P19	Combination Wrench - 1/2"	T219957P47	Socket - 3/4"	T219957P75	Socket - 1 1/2"
T219957P20	Combination Wrench - 9/16"	T219957P48	Socket - 13/16"	T219957P76	Socket - 1 5/8"
T219957P21	Combination Wrench - 5/8"	T219957P49	Socket - 7/8"	T219957P77	Female - Male Adapter
T219957P22	Combination Wrench - 11/16"	T219957P50	Socket - 15/16"	T219957P78	Tool Box
T219957P23	Combination Wrench - 3/4"	T219957P51	Socket - 1"		



T16940 Impact Wrench Set (1/2" Drive)

This air impact wrench set can be used for removing miscellaneous hardware from 1/2" to 1". A complete set of deep sockets and flex sockets from 1/2" to 1" and standard sockets from 3/8" to 1" are provided to handle most jobs. All sockets and extensions are impact wrench quality to give long service. The impact wrench operates on shop air of 90 to 100 PSI and will deliver an ultimate torque of 320 lb.ft. This unit is also equipped with an adjustable trigger for various speed applications. A 5 ft. flexible hose with a swivel connector at the wrench end is also furnished, so the wrench can be used in tight places without hose kinking.

Note: This impact wrench will retain its efficiency and give long service when oiled daily. It also provides valuable savings in time when removing components and hardware from the engine.

Note: All sockets are 1/2" drive - 6 point impact quality.

1	T16950	Impact Wrench
2	T16960	Hose
3	T16970	5" Extension
4	T16980	10" Extension
5	T17180	Standard Socket - 3/8"
	T17190	Standard Socket - 7/16"
	T17200	Standard Socket - 1/2"
	T17210	Standard Socket - 9/16"
	T17220	Standard Socket - 5/8"
	T17230	Standard Socket - 11/16"
	T17240	Standard Socket - 3/4"
	T17250	Standard Socket - 13/16"
	T17260	Standard Socket - 7/8"
	T17270	Standard Socket - 15/16"
	T17280	Standard Socket - 1"
6	T17090	Flex Socket - 1/2"
	T17100	Flex Socket - 9/16"
	T17110	Flex Socket - 5/8"
	T17120	Flex Socket - 11/16"
	T17130	Flex Socket - 3/4"
	T17140	Flex Socket - 13/16"
	T17150	Flex Socket - 7/8"
	T17160	Flex Socket - 15/16"
	T17170	Flex Socket - 1"
7	T16990	Deep Socket - 1/2"
	T17010	Deep Socket - 9/16"
	T17020	Deep Socket - 5/8"
	T17030	Deep Socket - 11/16"
	T17040	Deep Socket - 3/4"
	T17050	Deep Socket - 13/16"
	T17060	Deep Socket - 7/8"
	T17070	Deep Socket - 15/16"
	T17080	Deep Socket - 1"

T17290 General Purpose Impact Wrench

This is a 3/4" square drive impact wrench rated at 800 lb.ft. for intermediate sized bolt removal. It is particularly suited for removal of master rod cap bolts and main frame main bearing side bolts. It is not recommended for bolt tightening.



T18961 Torque Wrench Tester for General Torque Wrench Qualification



T18961 Torque Wrench Tester 0-1000 lb.ft.

This tester is used for testing and calibrating 1/2", 3/4" and 1" drive torque wrenches. It has a Class 1 accuracy of +/- .5% of reading. Torque wrenches can be checked for breaking and tightening torque by using the appropriate side of the torque input shaft. 1/2", 3/4" and 1" input adapters are supplied, and repair service is available.

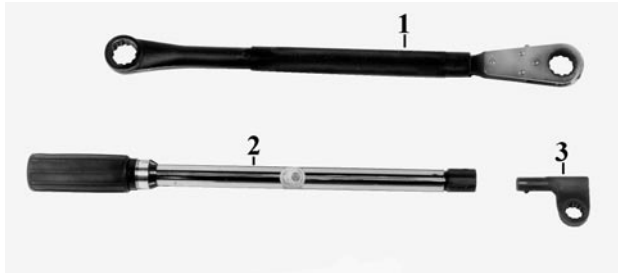
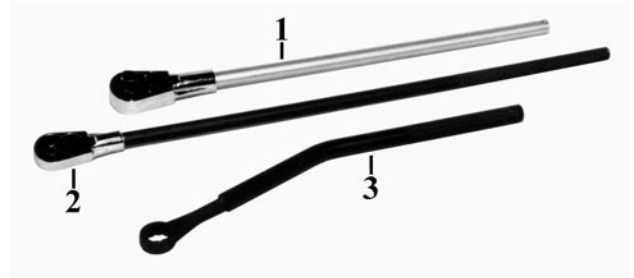
T57580 Torque Wrench Analyzer Input Adapter Set



This adapter set contains 12 adapters from 1/2" through 1-1/4" which are terminated with a 3/4" square drive that inserts into torque analyzers. They are used to verify torque on various torque wrench box end and socket applications. It comes complete with an aluminum stand for storage of each adapter.

Maintenance Wrenches for GE Engines

1	T19820	1" sq. drive ratcheting wrench for barring over engines w/barring feature in governor gearbox. (36" long)
2	T18231	3/4" sq. drive ratcheting wrench for removing connecting rod cap bolts. (40" long)
3	T23501	Turbocharger mounting bolt removal wrench. (26" long)



1	T54120	GE Dynamic Brake Grid Wrench - one 15/16" box end and one 15/16" 12 point ratcheting box end.
2	T16491	30-150 ft. lb. Torque Handle
3	T51432	GE Exhaust Manifold to Cylinder Bolt Adapter - 5/8" 12 point. Use with T16491

Torque Wrenches to Support Engine Maintenance

T18250 0-1,000 lb.ft Torque Wrench

This wrench has a 1" square drive and an extension handle that fits and locks inside. A battery powered alarm sounds when the torque reaches the pre-set limit.



T18230 100-600 Ratcheting Torque Wrench with 3/4" Square Drive

T22520 30-250 Ratcheting Torque Wrench with 1/2" Square Drive



1	T300T-I	100-300 lb. Ft. torque handle
2	T200T-I	45-200 lb. Ft. torque handle
3	T54930W	45-220 lb. Ft. torque handle (spigot drive)
4	T18220	3/8" sq. drive 4-75 lb. Ft. ratcheting torque wrench
5	T20710	3/8" sq. drive 50-250 lb. In. torque wrench



T17801 Box Wrench Torque Kit

This kit was assembled to make general engine torque requirements both safer and easier. The kit contains a 30-150 lb.ft. torque handle, 1/2" sq. drive ratcheting head, and 12 point box wrench adapter ends from 1/2" through 1". This set is also available in open end adapters (T17801OE).

1	T16491	30-150 lb. Lb. Torque Handle
2	T15930	Ratchet Head (1/2" sq. drive)
3	T17710	Box Wrench Adapter 1/2"
4	T17720	Box Wrench Adapter 9/16"
5	T17730	Box Wrench Adapter 5/8"
6	T17740	Box Wrench Adapter 11/16"
7	T17750	Box Wrench Adapter 3/4"
8	T17760	Box Wrench Adapter 13/16"
9	T17770	Box Wrench Adapter 7/8"
10	T17780	Box Wrench Adapter 15/16"
11	T17790	Box Wrench Adapter 1"

T12940 General Purpose Puller Set

This puller set is used for various maintenance applications on the GE Locomotive. It is useful in pulling tapered bearings, hubs, pulleys and gears.

1	T12840	Puller Set with yoke and 28 various length threaded adapters
2	T12850	Pulley and Gear Puller Set (spread 1 1/2" - 5")
3	T12860	Bearing Separator 2 3/8" diameter
4	T12870	Bearing Separator 4 3/8" diameter
5	T12880	Bearing Separator 5 7/8" diameter
6	T12950	Storage Box



Consumable Products for Engine Maintenance



These are the consumable items that we carry to support ordinary engine maintenance and repair functions. These items are all shipped with Material Safety Data Sheets.

T11431	G-N Metal Assembly Paste (Molycote) 1 can = 17.6 oz.
T24890	LOCTITE Threadlocker 1 can = 50 ml
T18981	LOCTITE 609 Retaining Compound 1 can = 50 ml
T16400	Fel-Pro Copper Compound 2 can = 16 oz.
T21630	LUBRIPLATE Petroleum Lubricating Grease 1 can = 14 oz.
T16380	Scotch 1/2" Thread Sealant and Lubricant 1 roll = 520"

T55570 GE Exhaust Manifold to Cylinder Torque Wrench Kit



This torque kit consists of a preset torque handle set at 145 lb.ft. and a special torque adapter which is terminated with a 5/8" 12 point adapter. This is for torquing the bolts only, as the preset torque handle is a precision instrument. To break the exhaust manifold bolts loose use the T57600 Handle with the T51431 5/8" 12 point adapter.

T55570W	Pre-set Torque Handle (100-300 lb. Ft.) set at 145 lb. Ft.
T55570A	Exhaust Manifold Adapter (5/8" 12 point)
T57600	Exhaust Manifold Removing Tool (not shown)
T51431	Exhaust Manifold Adapter (5/8" 12 point) for use with the T57600 Handle (not shown)



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

B. CYLINDER & HEAD

B1.

Compression Tester Sets
T50960 Governor Stop Block

B2.

T24101 Pneumatic Cylinder Hold Down Bolt Torque Kit
T15681 Pneumatic Cylinder Hold Down Bolt Torque Kit
T23610 Manual Cylinder Hold Down Bolt Torque Kit

B3.

T50071 Heavy Duty Cylinder Hold Down Bolt Removal Kit
T16843 Cylinder Hold Down Bolt Impact Wrench Kit
T16842 Cylinder Hold Down Bolt Impact Wrench Kit

B4.

T55670 Cylinder Hold Down Bolt Torque Centering Device
T10300 Cylinder Liner Bore Gage
T18703 Cylinder Jacket Lifter

B5.

T19923 Front Mount Cylinder Lifter
T16065 Power Assembly Lifter
T19922 Front Mount Cylinder Lifter (A-Frame)

B6.

T54552 Power Assembly Lifter
T54552C Short Power Assembly Lifter
T65070 Power Assembly Stand

B7.

T17380 5000 PSI Hydraulic Leak Test Fixture
T16711 Hydraulic Cylinder Liner Remover

B8.

T18300 Magnetic Base Drill Set

B9.

T13221 Cylinder Hold Down Bolt Impact Wrench
T16730 GE Cylinder Head Aligner
T13670 Power Assembly Guide Pins
T19280 Cylinder Assembly / Disassembly Service Fixture

B10.

T20241 Cylinder Head Lifter
T54890 Horizontal Cylinder / Power Assembly Lifter
T54762 Rotating Lifter for Welded Head and Liner Assemblies

Compression Tester Sets

Presently over 20000 of these testers are in service around the world and represent an outstanding product.

Through their use, customers can very quickly determine faulty cylinders. They have virtually eliminated earlier blow-by test procedures. Complete instructions are included.

Individual Testers

- T13683** Compression Tester - GE
- T50213** Compression Tester - EMD
- T50023** Compression Tester - ALCO

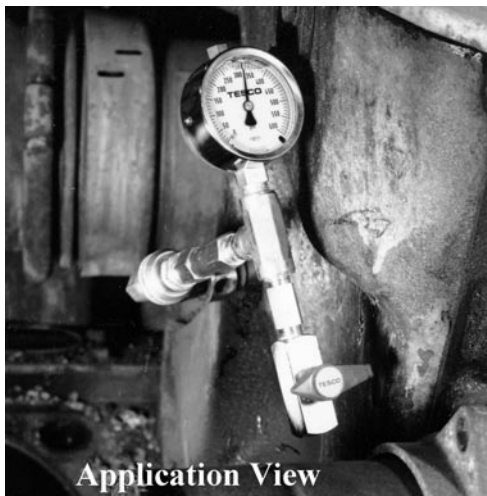


1	T50121	Gauge
2	T50330	Tee
3	T50341	Nipple
4	T50142	Release Valve
5	T50131	Check Valve
6	T50192	Filter
7	T50171	Socket
8	T50181	Plug
9	T50160	EMD Adapter - complete w/plug
10	T50420	GE Adapter - complete w/plug
11	T50010	ALCO Adapter - completew/plug
12	T50960	Governor Stop Block
13	T22711	Storage Box

T22303 (set of 8 - T13683 Testers with box and T50960 Governor Stop Block) for all GE Engines

T50980 (set of 8 - T50213 Testers with box) for all EMD Engines

T51440 (Set of 8 - T50023 Testers with box) for ALCO 251 Engines



Application View

T50960 Governor Stop Block

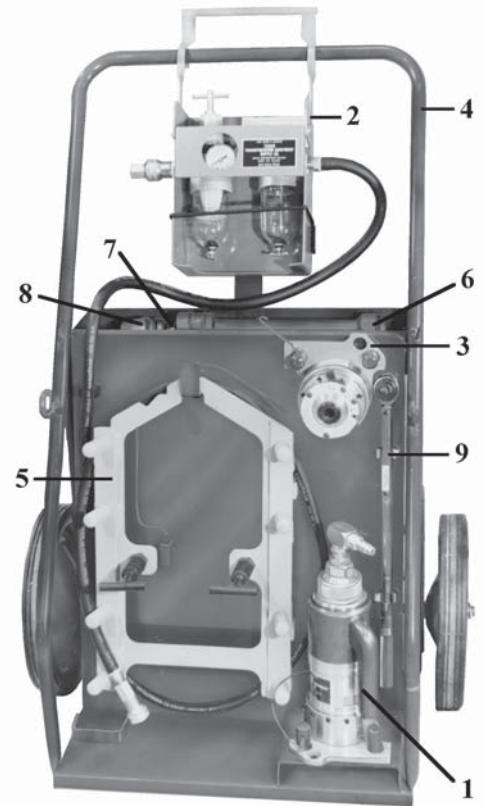
The Governor Stop Block is used on GE Engines with governors not equipped with shut down buttons. The stop block is placed over the tail rod of the governor and snapped in place, thus preventing the engine from firing.



T24101

Pneumatic Torque Kit with cart for Cylinder Hold Down Bolt Torquing

This kit enables all shops to precisely control cylinder bolt torquing. It is the most complete kit offered. The air pressure is set on the air control kit in accordance with the individual motor torque curve while the air motor is running unloaded. The proper air setting will produce 1350 lb.ft. cylinder bolt torque when the motor stalls during torquing. The 25:1 Verifier is used to audit the results and minor air pressure corrections may be needed.



1	T16050	2500 lb. Ft. Air Drive Torque Motor
2	T50041	Air Control Kit complete with cage
3	T23600	25:1 Torque Verifier w/anti wrap up feature
4	T23980	Cart
5	T15971	Reaction Fixture
6	T15980	Extension
7	T15990	Universal Joint
8	T16001	Socket
9	T22520	30-250 lb. Ft. 1/2" drive ratcheting torque wrench
		T15681 includes:
1	T16050	2500 lb. Ft. Air Drive Torque Motor
2	T50041	Air Control Kit complete with cage
5	T15971	Reaction Fixture
6	T15980	Extension
7	T15990	Universal Joint
8	T16001	Socket
	T16500	5:1 Torque Verifier (not shown)

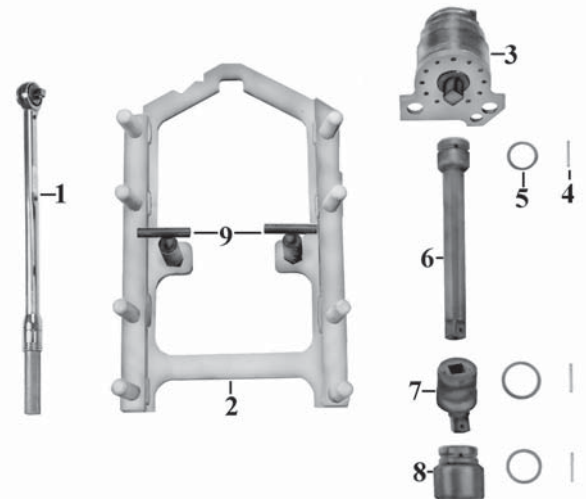
T24000 - Same kit as above except it excludes the T23600 25:1 verifier and the T22520 Torque Wrench. This Kit is intended for those shops which already have torque verifiers.

T23610

Manual Cylinder Hold Down Bolt Torque Kit

The T23610 torque kit provides a moderately priced, most accurate alternative to the T15681 Pneumatic torque controlled wrench for GE Cylinder Hold Down Bolts. The torque multiplier features a 1/2" square female input and a 1" square output torque. 56 lb.ft. input torque will result in 1400 lb.ft. required output torque.

The torque multiplier is also equipped with an input ratcheting mechanism that eliminates drive line wrap-up, assuring maximum utilization of input motion and effort. The torque verifier is certified to be torque accurate to +/- 3%. Repair and return service is available.



1	T22520	1/2" drive ratcheting torque wrench (30-250 lb. Ft.)
2	T15971	Reaction Fixture w/T50830 HD Clamps
3	T23600	25:1 Torque Multiplier
4	T13020	Locking Pin (3 required)
5	T13030	O-Ring (3 required)
6	T15980	Extension
7	T15990	Universal Joint
8	T16001	Socket
9	T50830	Heavy Duty Clamps



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T50071 Heavy Duty Kit for Removing GE Cylinder Hold Down Bolts

Rated at 3200 lb. ft. Used mainly for stripping engines at overhaul.

1	T16051	Torque Motor 1 1/2" sq. drive
2	T15971	Reaction Fixture
3	T50081	Extension 1 1/2" sq. drive
4	T50090	Universal Joint 1 1/2" sq. drive
5	T50101	2" 6 point Socket 1 1/2" sq. drive
6	T50041	Air Control Kit

Please note: The extension, universal, and socket are 1 1/2" square drive and **cannot be used with the T16050 air motor**



Cylinder Hold Down Bolt Impact Wrench Sets

The following kits provide the most rapid removal of cylinder hold-down bolts on GE engines (4 bolts per cylinder). **Used for removal only.** The T16843 kit provides an air control kit with a filter regulator and oiler assembly which greatly enhances the useful life of the wrench. Maximum shop air pressure should be used to remove the bolts.



T16843

1	T16811	#5 Spline Drive Impact Wrench
2	T16830	Extension
3	T16820	Socket
4	T50041	Air Control Kit



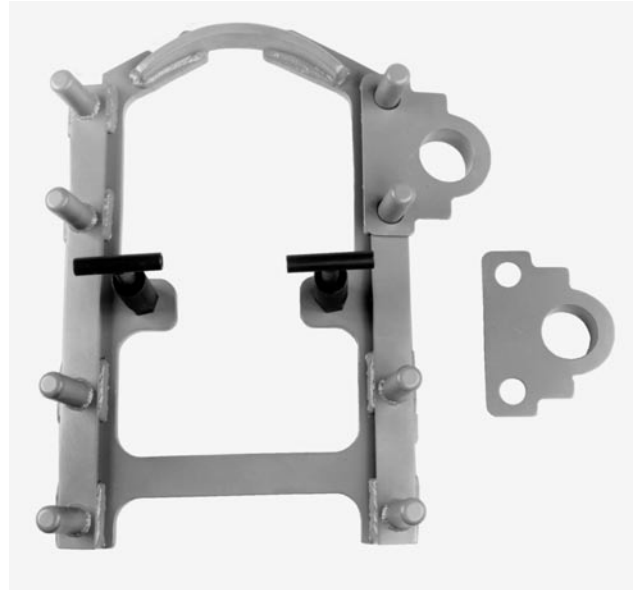
T16842

1	T16811	#5 Spline Drive Impact Wrench
2	T16830	Extension
3	T16820	Socket
4	T16040	Hose
5	T21950	Oiler

T55670

GE Cylinder Hold Down Bolt Torque Centering Device

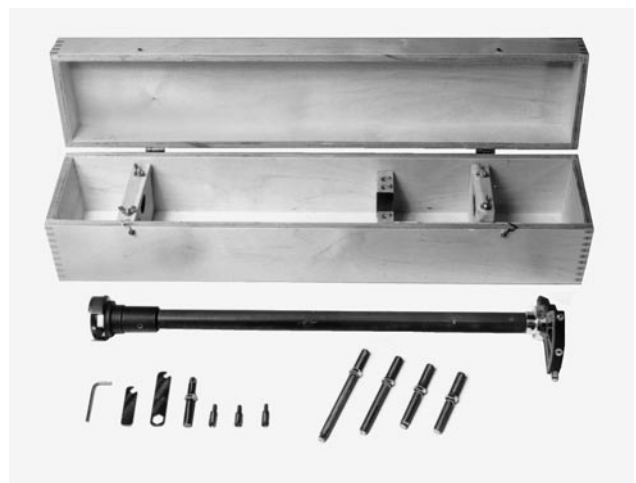
This device is shown on the T15971 reaction fixture. Some machinists prefer to remove the extension, universal and socket from the air motor when performing power assembly bolt removal and installation. This device holds the input of the extension in place so as to aid the installation of the air motor into the extension.



T10300 Cylinder Liner Bore Gauge

This tool is used to measure the inside diameter of the cylinder liner. The gage set comes with sufficient mandrels to measure from 6" to 12 1/8" diameter. The long shank allows for readings to be taken along the whole length of the GE liner.

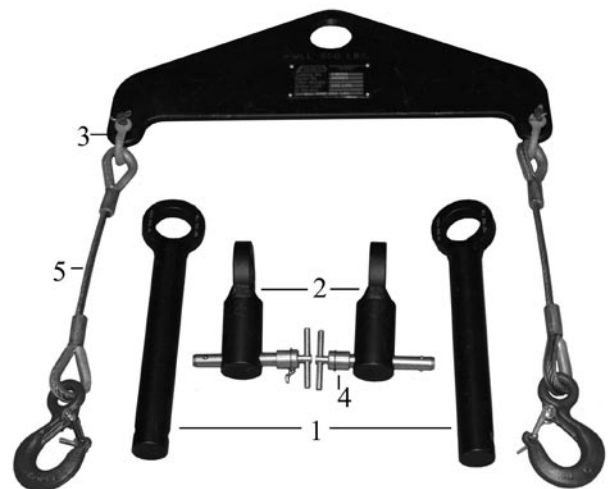
This tool should be used with T10310 Gage and micrometer standard to establish the exact 9.000" reference diameter. The liner bore gauge measures bores with an accuracy of .0001".



T18703 Cylinder Jacket Lifter

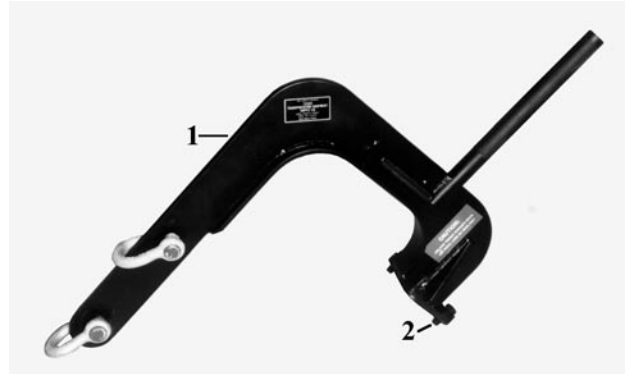
This tool is used in backshops where handling the cylinder jacket requires a quick method of hookup and release. The two short pins allow upright jacket pickup through the rocker shaft holes and the two long pins allow for inverted cylinder jacket pickup through the cylinder mounting holes.

1	T18691	Lifting Pins (Long) 2 required
2	T18681	Lifting Pins (Short) 2 required
3	T22311	Shackle - 2 required
4	T22331	Quick Release Pins - 2 required
5	T22651	Cable assembly w/spring loaded safety hooks
		(2 required)



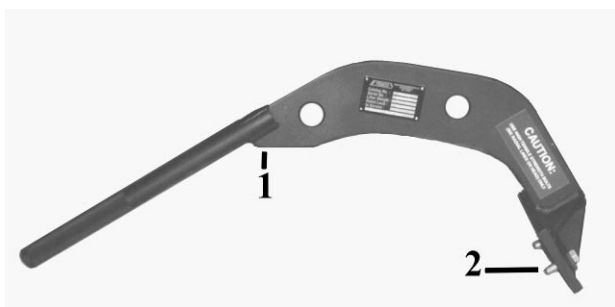
T19923 GE Front Mount Cylinder Lifter

This lifter mounts on the air inlet boss of the cylinder with four 5/8"-11 high tensile captive cap screws. The T19923 provides for the 22 1/2 degree engine installation position as well as the vertical lift. 4 - T13800 5/8"-11 mounting bolts are required.



T16065 GE Power Assembly Lifter

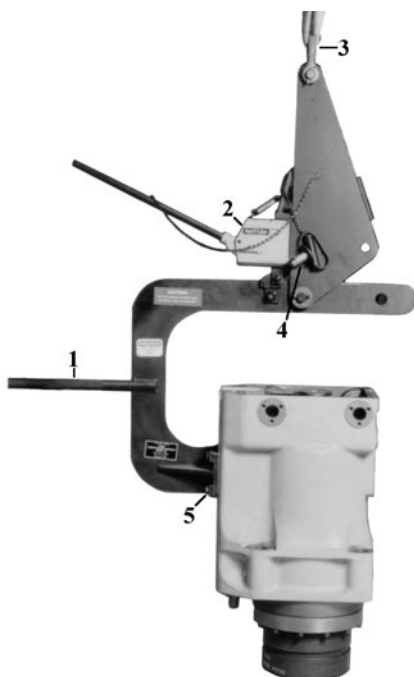
This lifter is mounted on the rear of the cylinder by two T13791 1/2"-13 Grade 8 bolts at the water outlet boss. Vertical and 22 1/2 degree pick up points are provided.



T19922 GE Front Mount Cylinder Lifter

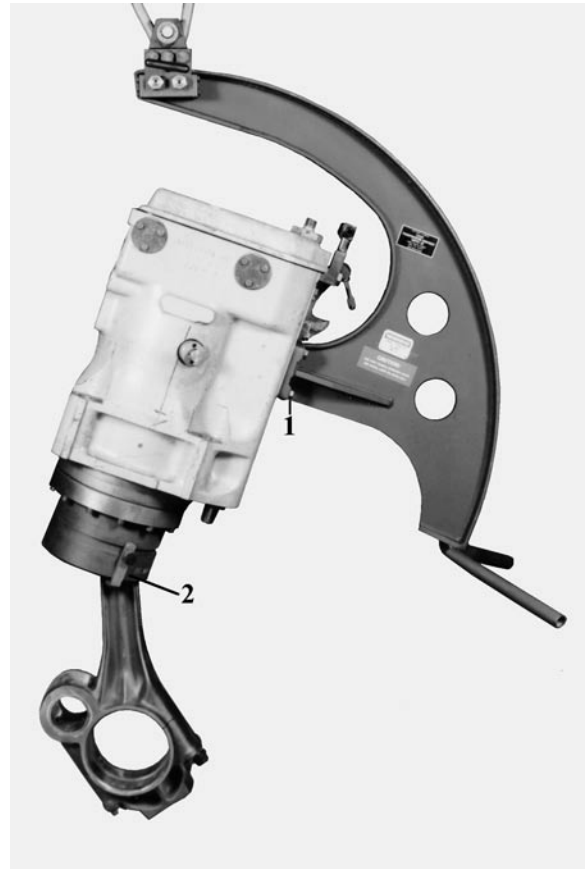
This lifter allows for the 22 1/2 degree (engine) and vertical cylinder pick up by repositioning the "A" Frame Assembly. This feature allows the machinist to pull a cylinder or power assembly from the engine (22 1/2) and reposition it to vertical without re-rigging lift points. This facilitates placing the used cylinder in a vertical mount shipping container. Cylinders or power assemblies can also be lifted from the shipping container and tilted 22 1/2 degrees to accommodate engine mounting. A hydraulic jack is used to reposition the "A" Frame.

Caution: When removing or installing cylinders on the engine, the forward pin must be installed to assure the maximum safety factor of the design. The jack is used to reposition the "A" Frame only, and the forward pin is used to carry the loads imposed by jockeying the cylinder or power assembly on or off the engine.



T54552 GE Power Assembly Lifter

This lifter was developed to solve the problem of rigging a GE Power Assembly from the shipping position - (laying on the exhaust port side) to the 22 1/2 engine installation position. A 112 1/2 trolley is incorporated, allowing an operator easy repositioning of the power assembly. (See Photos)



T54552C Short Power Assembly Lifter

This lifter is used to install and remove a short power assembly from the main frame (PA less piston and rod). It will slide along the center of gravity from a horizontal shipping position to the 22 1/2 degree installation position with minimal effort. It is painted orange to differentiate from the T54552 Lifter.

T65070 Cylinder Assembly / Disassembly Stand

This stand accommodates the installation or removal of individual Power Assembly Components outside of the engine. There is a machined ledge to catch the inside of the piston skirt and hold it in place and guide pins aid the cylinder onto the stand. Once the assembly is complete it can be picked up and moved with the T54552 Lifter (or T54552C if it's a short assembly).

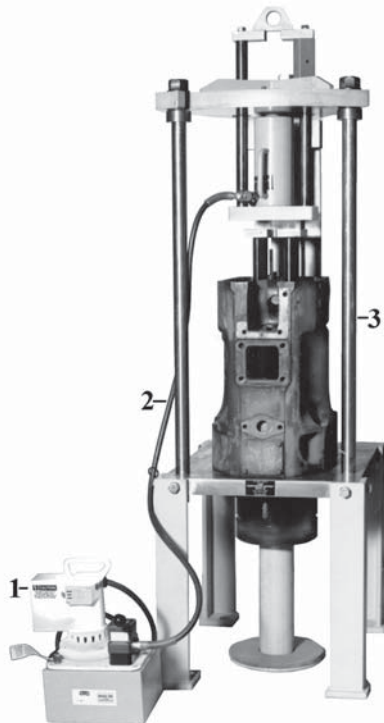
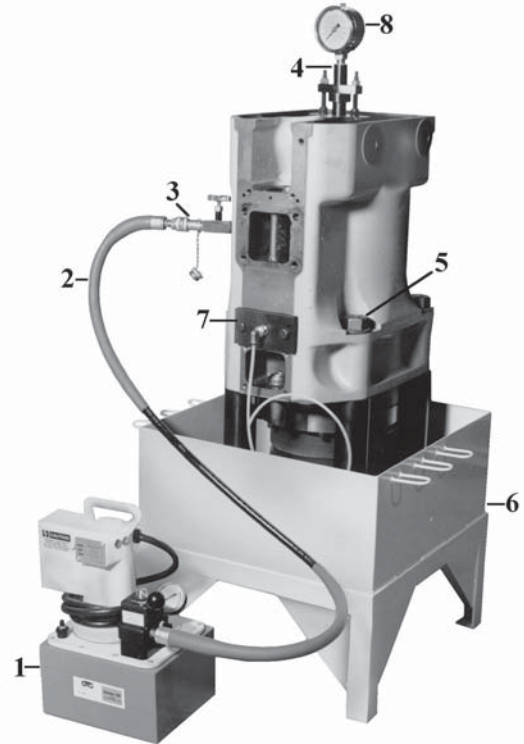
There is a tool rack for a T10892 Ring Compressor, T18593 Piston Lifter and T10992 Expander attached to the stand's frame.



T17380 5000 PSI Hydraulic Leak Test Fixture

This fixture is supplied with all the hardware, hydraulic pump and necessary accessories to completely test rebuilt cylinders at 5000 PSI. Follow the GE instructions for exact details of the test. Please specify T17380 for a 115 Volt Test Fixture, or T17480 for a 230 Volt Fixture.

1	T14320	Motor Driven Pump 115 Volt
	T14330	Motor Driven Pump 230 Volt
2	T10200	Hose
3	T17590	Valve and Plug Adapter
4	T17580	Gauge and Dummy Injector Assembly
5	T50230	Hold Down Bolt and Washer (4 required)
	T17660	"O" Ring for Piston (6 required)
	T19350	45 degree Test Valve (2 supplied)
	T19360	15 degree Test Valve (2 supplied)
	T21730	"O" Ring for test valves (12 supplied)
6	T17490	Stand
7	T17500	Test Fixture
8	T17700	Gage only 0-10,000 PSI
9	T50240	Set of Blanking Plates - 1 water inlet and 1 water outlet



T16711 Hydraulic Cylinder Liner Remover

This tool is used to hydraulically remove cylinder liners from cylinder jackets. The top portion of the fixture swivels out of the way easing the loading and removal of the cylinder assembly. A T16711 designates a 115 Volt Cylinder Liner Remover, while a T16712 is 230 Volts.

1	T14320	Motor Driven Pump 115 Volt
	T14330	Motor Driven Pump 230 Volt
2	T10200	Hose
3	T16710	Puller Complete with Ram

T18300 115V Magnetic Base Drill Set



The magnetic base drill is used to re-drill and tap the engine main frame when cylinder hold down bolts strip. A plate with hardened liners fits into the cylinder assembly hole in the main frame. Two special hold down bolts are then inserted through the matching hardened bushings adjacent to the stripped hole, and tightened. The magnetic base drill fits on the plate over the hole to be drilled and is secured by the electromagnet. The drill can be precisely centered by the use of the swivel base on the drill stand, without removing power from the magnetic base. In this manner, the drill can be guided into the precision bushing.

The T18400 230V Drill is no longer available as a stand alone unit, however, we now offer a T18400T transformer that will connect with 230 Volts and transform to 115 V. These are available in 50 or 60 Hz configurations, and will allow the T18300 to work in locations that only supply 230 Volt power.

Warning: secure power line to power outlet so the circuit cannot be interrupted. If power to the magnetic base is interrupted, the drill could fail and cause personal injury.

The drill stand is equipped with a two speed motor (250/500 RPM). It is suggested that the 250 RPM be used for drilling. A special tool is furnished to countersink the hole to the correct diameter. A tap and tap holder can be used with the drill motor to start the threads in the hole.

Caution: DO NOT engage drill feed. Final tap by manual means when nearing the bottom of hole.

The magnetic base drill set accomplishes the precise job of drilling and tapping the holes for application of the hardened insert.

Note: A complete set of instructions is furnished with each magnetic base drill set.



1	T18290	115 Volt Drill Stand
1	T18400T	Transformer 230V to 115 V
2	T18360	Guide Plate with Hardened Fasteners
3	T18420	1 1/4" Cylinder Bolt Bushings (2 required)
4	T18430	1 35/64" Bushing
5	T18370	2 1/16" Bushing
6	T18340	Tap Holder
7	T18330	1 5/8"-12 Special Tap
8	T18380	2 1/8"-16 Special Tap
9	T18350	Counterbore Extension
10	T18310	1 11/16" Special Counterbore with Pilot
11	T18320	1 35/64" Drill
12	T18390	2 1/16" Drill
13	T18440	Guide Plate Hold Down Bolts (2 required)
14	T18450	2 1/8"-16 Repair Plug (6 supplied)
15	T50390	1 5/8"-12 Insert (6 supplied)
16	N405P19	Lockwashers (6 supplied)
17	T13221	Insert Wrench - shown on page B9

T13221 Cylinder Hold Down Bolt Insert Wrench

Two models of cylinder bolt insert wrenches are available for GE Engines: the T13221 and the T13222. The T13221 is equipped with a 3/4" female drive and a brass pilot. This wrench is intended for torquing and removal of inserts. The T13222 wrench is equipped with a 1/2" square female drive and is intended to be used with an impact wrench to strip engines.



1	T13221	Insert Wrench
2	T50390	Cylinder Hold Down Bolt Insert
3	T13222	Insert Wrench

T16730 GE Cylinder Head Aligner

This tool is useful for aligning cylinder heads in the jacket during the cylinder assembly process. It enters the compression relief plug hole and engages the mating hole in the head. The pipe thread end is screwed into the head and the follower screwed toward the head to perfectly line up the passage way. The follower should be backed off before the liner is pressed into the jacket, otherwise damage to the tool could result.



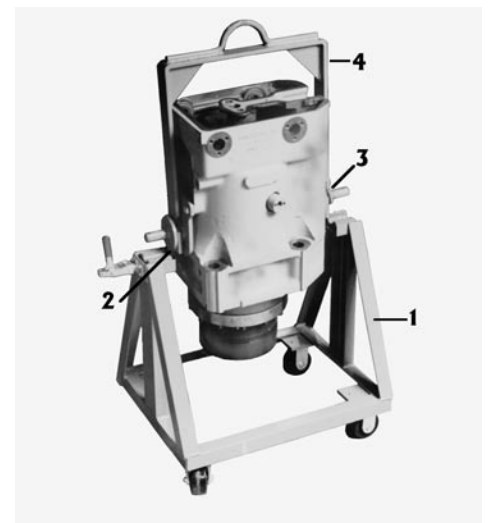
T13670 Power Assembly Guide Pins

These pins aid positioning power assemblies onto the main frame by guiding the cylinder locating boss into the main frame.

T19280 Cylinder Assembly/Disassembly Service Fixture

This fixture is used to aid assembly and disassembly of engine cylinders. Lifter pads are bolted to the inlet and exhaust ports of the cylinder to create rotation points for the cylinder. The pads establish a center of gravity for the cylinder and turning the cylinder requires a minimum of effort. A toggle clamp is provided to lock the cylinder in various service positions. A "C" frame lifter is also provided to facilitate loading and unloading the cylinder from the fixture.

1	T19280	Cylinder Service Fixture
2	T23071	Exhaust Lifter Pad
3	T23061	Intake Lifter Pad
4	T19321	Cylinder Lifter





T20241 Cylinder Head Lifter

This tool is used to lift cylinder heads during cylinder assembly. It is used with a hoist to lower the head into the cylinder jacket.

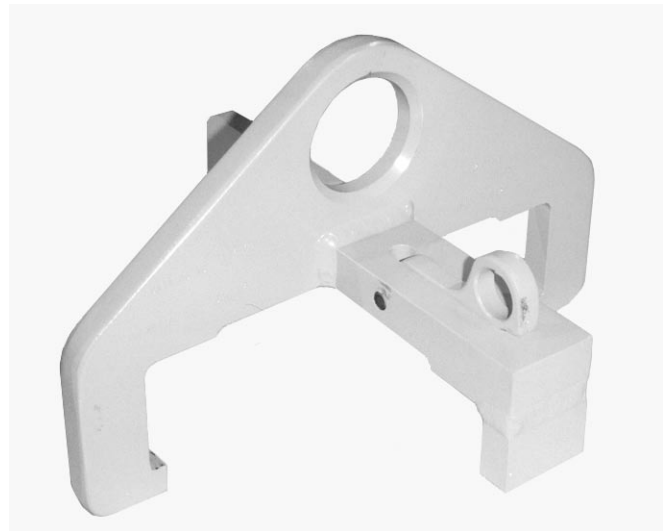


T54890 Horizontal Cylinder / Power Assembly Lifter

This lifter was designed to raise GE cylinders and power assemblies horizontally. Cylinders are lifted by moving the slider toward the mounting pad stop. To lift power assemblies move slider toward handle.

T16461 Cylinder Liner Lifter

This lifter snaps and locks onto a cylinder liner for lifting purposes. It retains the diameter on three sides and is secured using the “cam” lock. It is most handy during cylinder assembly work.



T54762

Rotating Lifter for GE Welded Head and Liner Assemblies

This lifter quickly clamps the body of the cylinder liner and locks in place. It is designed to allow rotation and positioning of this heavy assembly, easing handling in the rebuild and teardown areas.



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

C. Piston & Valves

C1.

T14062	Piston Retainer
T23221	Piston Retainer
T18593	Piston Lifter
T10892	Piston Ring Compressor
T19510	Piston Protector

C2.

T10890	Piston Ring Groove Scrapper
T10900	Piston Support Bar
T10992	Piston Ring Expander
T18412	Piston Pin Bolt Torque Kit

C3.

T10310	Piston Ring Gage & Micrometer Standard
T21481	Single-Valve Spring Compressor
T19450	Multiple-Valve Spring Compressor

C4.

T16792	Valve Checking Fixture
T14420	Fuel Tappet Rod and Valve Guide Driver
T52060	Cylinder Valve Setting Gage

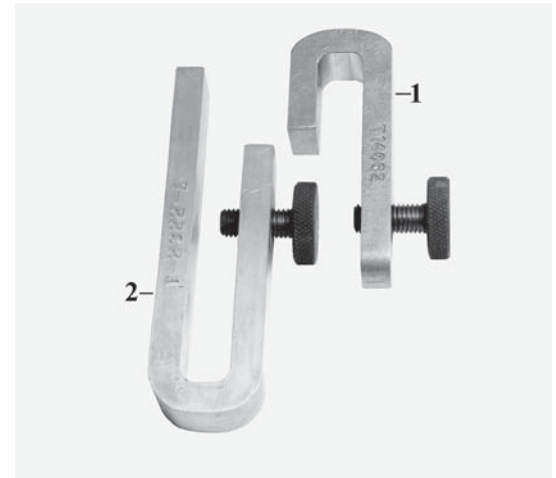
C5.

T10471	Valve Seat Grinding Set
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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.



T18593 GE Piston Lifter

The model T18593 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.

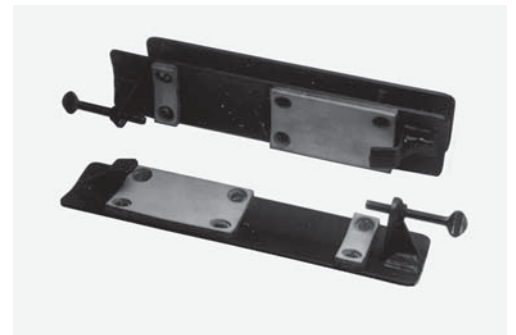
T10892 Piston Ring Compressor

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.

T10980W This tool is equipped with a larger insert to scrape the wider oil control ring groove on cutback pistons.

T10900 Piston Support Bar

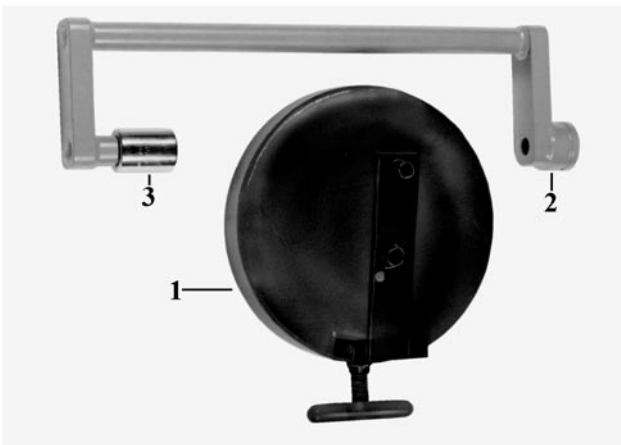
This bar is inserted into the main frame bore under the piston skirt, positioning the piston properly to accept installation of the cylinder assembly. The piston position can be aligned by barring the crankshaft.



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.

T18412 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)



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)



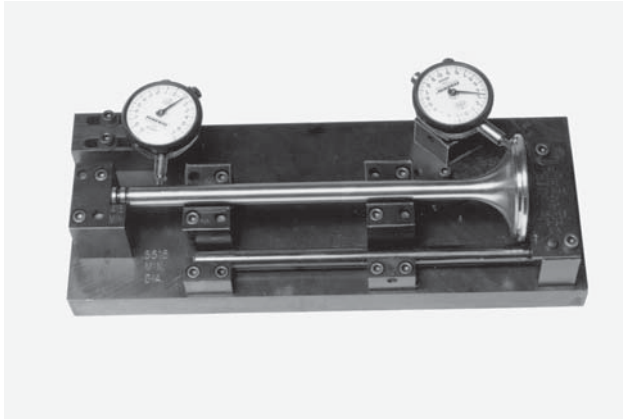
Manual Kit - T19450 Mult. Valve Spring Compressor

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



T16792 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

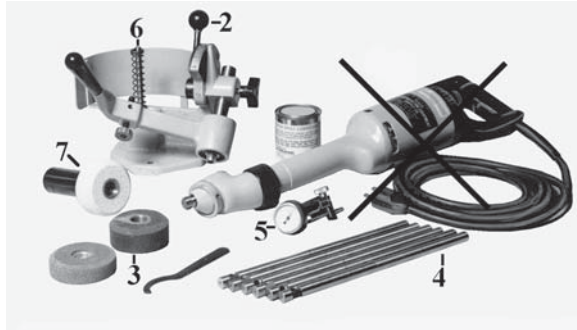
T52060 Cylinder Valve Setting Gauge

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



1	T10471AD	Air Driver
2	T10550	Dressing Tool
3	T18810	Dressing Tool - Rough
	T18820	Dressing 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)

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.



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

D. MAIN BEARING & CRANKSHAFT

D1.

T19250 Hydraulic Main Bearing Wrench
T23094 Main Bearing Stud Stretch Gauge
T17420 Hydraulic Frame Spreader

D2.

T55560 Main Bearing Cap Lifter
T12981 Main Bearing Wrench
T12991 Main Bearing Wrench
T15790 Main Bearing Torque Kit

D3.

T22040 Pneumatic Barring Over Tool
T50250 Manual Barring Over Tool
T16770 Crankshaft Barring Tool
T58440 EFI Barring Arbor

D4.

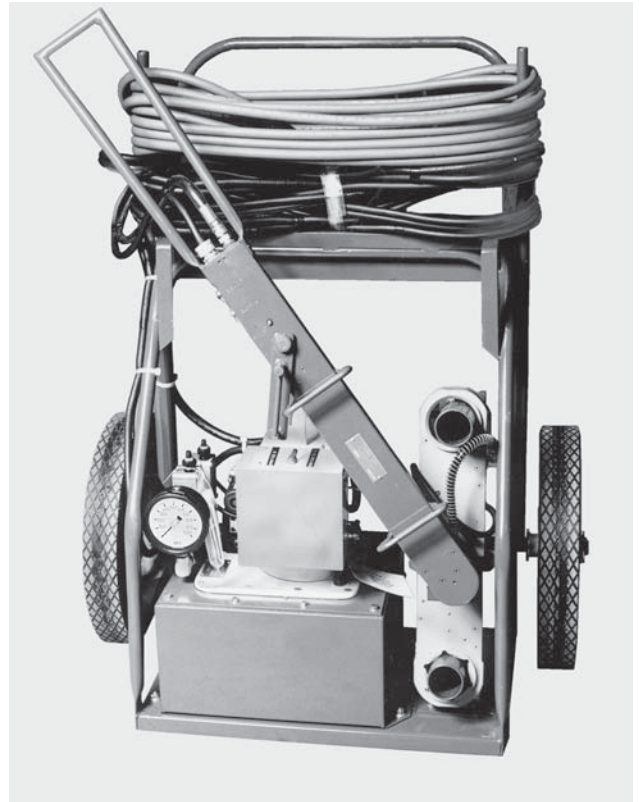
T18260 Crankshaft Main Journal Protective Pad
T18270 Crankshaft Rod Journal Protective Pad
T18280 Master Rod Shank Protective Pad
T19141 Crankshaft Front Drive Hub Puller Set
T55900 Crankshaft Top Dead Centering Device
T12300 Timing Tram Bar

**T19250 (115 Volt) Hydraulic Main Bearing
T21060 (230 Volt) Wrench**

The wrench fits into the engine inspection door and is turned to fit onto the nut to be loosened or tightened. The other end fits on the adjacent nut to take up the reaction of the wrench. A downward pressure should be applied to the handle to keep the socket engaged on the nut. At least two studs per 16 cylinder engine should be checked for proper stretch by using the T23091 Main Bearing Stud Stretch Gage. This wrench is equipped with dual controls for 16, 12 and 8 cylinder engines. Eight cylinder engines require less stud stretch.

This unit consists of a hydraulic wrench, 1 1/2 hp, 10,000 PSI, motorized hydraulic pump with pressure gauge, 25 feet hydraulic hose and control cable. It is mounted on a rubber tire cart for ease of mobility.

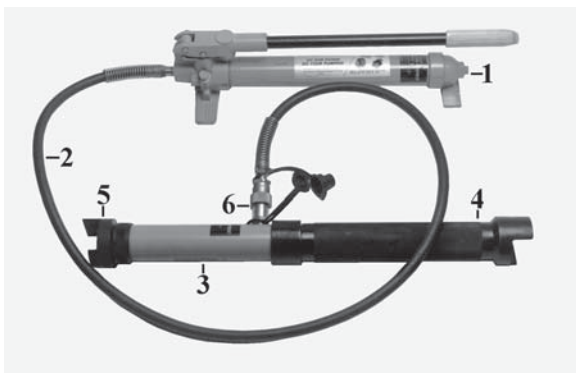
When using the TIGHTEN push-button, the hydraulic pressure is controlled by a pressure switch set to a predetermined pressure, thus giving the required stud stretch. The pressure setting to give the required stud stretch is preset at approximately 6200 PSI for 12 and 16 cylinder engines and 5775 PSI for 8 cylinder engines. The LOOSEN push-button bypasses the mentioned pressure switch, allowing more torque to be applied to the nut while loosening.



T23094 Main Bearing Stud Stretch Gage

This gage incorporates four adjustments to cover the various length studs in service. A knurled nut is loosened and a slider mechanism is used to line up set marks for the individual stud being measured. The nut should then be tightened. The indicator gage reads upright via the rocker mechanism.

The indicator gage can be rotated 360 degrees and clamped at any position to accommodate the various stud locations on the engine. This unit comes complete with a storage box to ensure safe storage.



T17420 Hydraulic Frame Spreader

1	T17830	Pump
2	T17840	Hose
3	T22810	Cylinder
4	T22820	Extension
5	T22830	Cap
6	T22840	Coupler

This spreader aids removal and installation of main bearing caps. In many locations, a main bearing cap will not drop once released by the stud nuts and side bolts. The main frame has to be spread slightly to open the machined throat that houses the cap. Placement of the spreader is accommodated by the lower ledge of the main frame.



T55560 GE Main Bearing Cap Lifter

This lifter was designed to aid the lowering and raising of Main Bearing Caps during main bearing change outs. It includes a 3/4" x 15" x 15" Jacking Pad that raises to a height of 8" when extended. Also included is a supply hose with throttling valves for raising and lowering the lifter.



T65820K Main Bearing Frame Kit



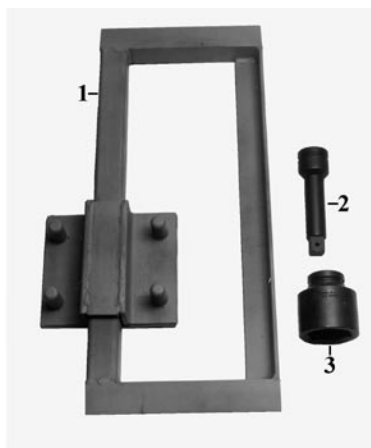
The T65820 is an aluminum FDL main bearing frame with hydraulic ram and cradle for stable removal and installation of main bearings. The ram uses a T17830 10,000 PSI hydraulic pump also pictured here. There are two bearing positions (numbers 4 and 7) that cannot be reached with the frame due to baffle locations, and instead the T65820-4&7 Main Bearing Ram Holder is clamped directly to the baffle. A T22811 Cylinder is then placed inside the holder and operated with the T17830 pump.

T12981 & T12991 Main Bearing Wrenches

These wrenches are used to loosen or torque main bearing studs. Torquing is accomplished by using the T18250 0-1000 lb.ft. 1" square drive torque wrench. These wrenches provide 1" square female drive to accommodate the torque wrench.

CAUTION: These wrenches require high input force and care must be exercised to avoid possible injury.

1	T12981	Left Hand Wrench
2	T12991	Right Hand Wrench
	T18250	0-1000 lb. Ft. Torque Wrench



T15790 Main Bearing Torque Kit

This kit is used where main frames are inverted to remove and install crankshafts. The T16050 0-2,500 lb.ft. air powered torque wrench is used to provide power.

1	T16540	Main Bearing Torquing Fixture
2	T16470	Extension
3	T16480	Socket



T22040 Pneumatic Barring Over Tool

This pneumatic barring over tool is for engines equipped with a barring feature in the governor gear box. It includes a remote control feature with 20 ft. of hose.

Repair and return service available for quick turn-around.

1	T22020	Air Motor
2	T22031	Complete Remote Control Unit
3	T22030HH	Hose and Hand Valve



T50250 Manual Barring Over Tool

This barring over tool is to be used on GE engines that are equipped with a notched hub at the free end of the engine.



T16770 Crankshaft Barring Tool

This tool is used to bar the crankshaft when an engine is being built up in the backshop and sufficient accessories have not been mounted to allow barring in the conventional manner.

It is 48" long with two pins welded to the tubing that accommodate the hole spacing in the crankshaft drive flange.



T58440 EFI Barring Arbor

The T58440 EFI Barring Arbor is for newer EFI engines that are not equipped with barring gear boxes. The arbor is installed in the new gear cover and secured. The T22040 Barring Over Tool is then used to power the barring arbor, and the operation is essentially the same as on older units.

Replacement shear pins are available: **T58440P**
CAUTION: After the barring operation is complete, the barring arbor must be removed from the engine and the gear cover reassembled.



Protective Pads for Critical Surfaces

All these pads surround the subject surface and are secured by velcro mating surfaces.

- 1 - T18260 - Crankshaft Main Journal
- 2 - T18270 - Crankshaft Rod Journal
- 3 - T18280 - Master Rod Shank

T19141 Crankshaft Front Drive Hub Puller Set

This set is used to hydraulically pull the front drive and auxiliary drive hubs from GE crankshafts. A retaining plate is supplied to assure the hubs do not pop off the shaft.

WARNING: This retaining plate must be used to provide safe removal of hubs.

	T19141	Front Drive Hub Puller Set
1 & 1A	T12890	Ram and Pump Set
2	T18950	Retaining Plate
3	T15460	Stud (3 required)
4	T14960	Auxiliary Drive Hub Plate with screws
5	T21470	Front Hub Puller Plate
		Metal tool Box included as well as various bolts, nuts and washers to complete all operations.



T55900 Crankshaft Top Dead Centering Device

This tool is placed in the #1 right cylinder bore of a GE Main Frame to determine crankshaft top dead center. It is used mainly on new or remanufactured main frames. The crankshaft is rotated to a position where the travel on the dial indicator is maximum. There may be 2° or 3° where the crankshaft registers maximum travel on the dial indicator. The crankshaft should be centered in the dead band to locate top dead center. Once the crankshaft is in this location, use the T12300 Timing Tram Bar to mark the #1 right main frame doorway with a prick punch mark approximately 1/8" wide.



T12300 Timing Tram Bar

This tool is utilized to position No. 1 crankshaft throw to top dead center while installing the crankshaft gear train, per the GE instruction book.





TRANSPORTATION EQUIPMENT SUPPLY COMPANY

E. CONNECTING & ART RODS

E1.

T14582 Art Rod & Piston Pin Bolt Wrench
T15171 1 1/8" Hex Shank Adapter
T15110 Socket (15/16")
T15100 Socket (1 1/16")
T14740 Art Rod Pin Retainer
T14740D Art Rod Pin Retainer (Double)
T11220 Art Rod Guide Pin
T14141 Bearing Cap Klocker

E2.

T54330 Master Rod Cap Lifter
T14921 Conn Rod Bearing Retainers
T16551 Master Rod Lifter

E3.

T16510 Connecting Rod Service Fixture
T24690 Connecting Rod Checking Fixture



Art Rod & Piston Pin Bolt Wrench

The various wrench combinations shown here aid in torquing art rod and piston pin bolts on GE engines.



Assembled View

1	T14582	3/4" sq. drive with 1 1/8" 12 point
	T14994	3/4" sq. drive with 15/16" 12 point output (not shown)
2	T15171	1/ 1/8" hex shank adapter with square drive for T15110 & T15100 sockets. (use with T14582 for piston pin bolts)
3	T15110	3/4" sq. drive 15/16" 12 point socket (use with T15171)
4	T15100	3/4" sq. drive 1 1/16" 12 point socket (use with T15171)



T14740 Art Rod Pin Retainer

This tool is useful in keeping the rod pin in location while barring the engine during repairs. (This pin has a tendency to slide in its bore and hit the main frame).



T11220 Art Rod Guide Pin

This pin aids placement of the art rod onto the art rod pin. Once the art rod is placed, this pin is removed and the art rod bolt can be installed easily. This provides perfect thread alignment for the bolt.



T14740D Art Rod Retainer

This double pin arrangement retains the rod pin while barring engine.



T14141 Bearing Cap Knocker

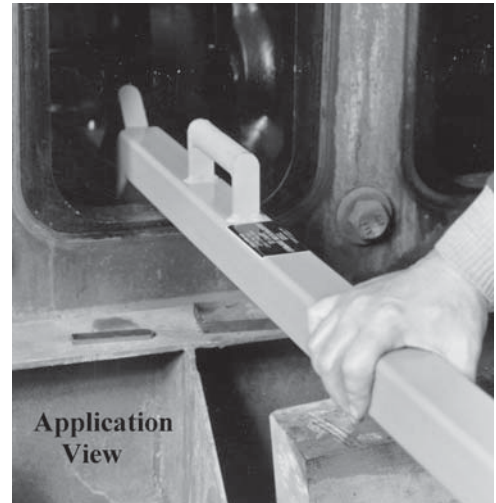
This tool is useful in removing master rod caps. (It cannot be used inside the engine). The master rod is placed in a T16510 Rod Holding Fixture and the jaws of the puller placed around the base of the cap. Removal of the cap is accomplished by sliding the knocker against its stop thus impacting the cap.

This tool is also useful in the backshop where main frames are inverted to remove the crankshaft. It will accommodate main bearing cap removal in this situation.

T54330 Master Rod Cap Lifter

Changing Conn Rod Bearings on GE Engines requires the lowering and raising of the Conn Rod Cap. This tool reduces the manual effort required to perform this operation.

Recommended Procedure: Install a T14062 Piston Retainer on one side at cylinder location of the bearing change. On the other side of the engine install a T23221 Piston Retainer (much longer leg keeps piston well into cylinder). Bar the engine so the master rod cap swings toward the cylinder that has the T23221 (long) piston retainer installed. Land both pistons on their respective retainers. Remove cap bolts and install the T54330 Master Rod Cap Lifter through the doorway where the T14062 (short) piston retainer is installed. (See application photo). Wiggle the lifter so as to release the cap and then lower it into the crankcase. Rotate crankshaft further to uncover the upper bearing. Pistons and Rods will be held up by their respective piston retainers. Remove bearing halves, clean cap and rod surfaces, install new bearing, and rotate crank back into location. Lift cap into location and bolt.



T14921 Conn Rod Bearing Retainers



These aid replacement of the master rod onto the crankshaft pin by holding the bearing half shell at its spline line.

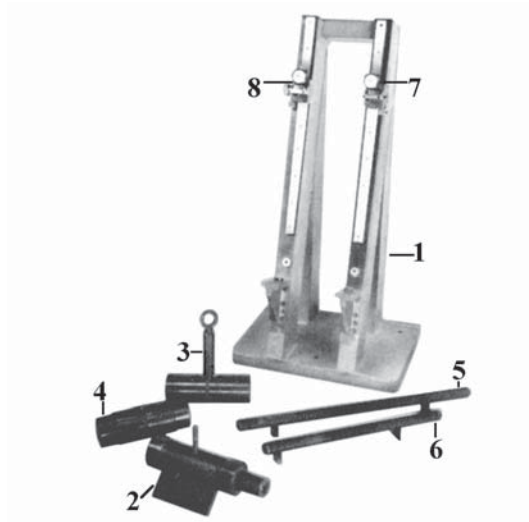
T16551 Master Rod Lifter



This lifter aids the proper handling of master rods and features brass jaws that protect the polished flutes of the rod.

T16510 Connecting Rod Service Fixture

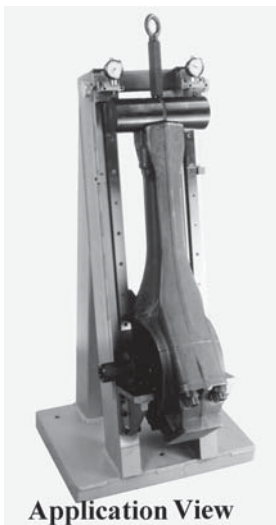
This tool facilitates the proper holding and rotation of connecting rods made necessary for taking bearing crush readings and piston installation. The rod is held by two brass jaws (T16530) and can be rotated to various positions. The spindle of the fixture is equipped with a spring loaded plunger and bushing assembly that locates the various service positions and two cam operated clamps that lock the fixture in the service position.



T24690 Connecting Rod Checking Fixture

All connecting rod measurements, parallel and twist can be made with this fixture. The connecting rod has only to be placed in the fixture for all measurements.

1	T24690	Fixture
2	T24690CM	Crank Mandrel
3	T24690PM	Piston Pin Mandrel
4	T24690AM	Art Rod Mandrel
5	T24690MSM	Master Rod (Min. Length) Setting Mandrel
6	T24690ASM	Art Rod (Min. Length) Setting Mandrel
7	T24690RDI	Right Hand Dial Indicator Assembly
8	T24690LDI	Left Hand Dial Indicator Assembly





TRANSPORTATION EQUIPMENT SUPPLY COMPANY

F. CAMSHAFT

F1.

T11322 Cam Bearing Spanner
T52051 Camshaft Fuel Roller Lifter
T52090 Hydraulic Cam Bearing Remover

F2.

T55961 EFI Hydraulic Cam Shaft Journal Bushing Installer & Remover
T55991 Cam Segment Lifter for EFI Engines
T54441 Camshaft Section Bolt Torque Adapter

F3.

T58711 Camshaft Gear Lifter
T65570 Camshaft Alignment Tool

T11322 Cam Bearing Spanner



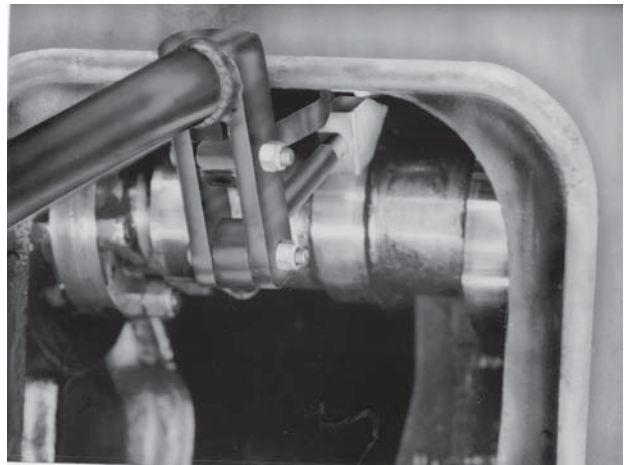
This tool is used to aid removal and installation of camshaft bearings. During installation it is especially handy in aligning the bolt hole from the main frame.

Installed on a cam bearing, two dowel pins fit the two locating holes of the bearing.

T52051 Cam Shaft Fuel Roller Lifter

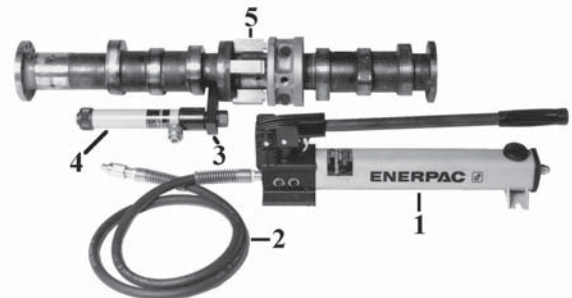
This tool was designed to ease the job of raising and pinning the cam fuel roller that is required for cam shaft removal. The new two fork design will allow this lifter to work with EFI engines.

NOTE: Cam air and exhaust rollers require the removal of the respective push rods in that the valve spring resistance is so great pin shearing will result.



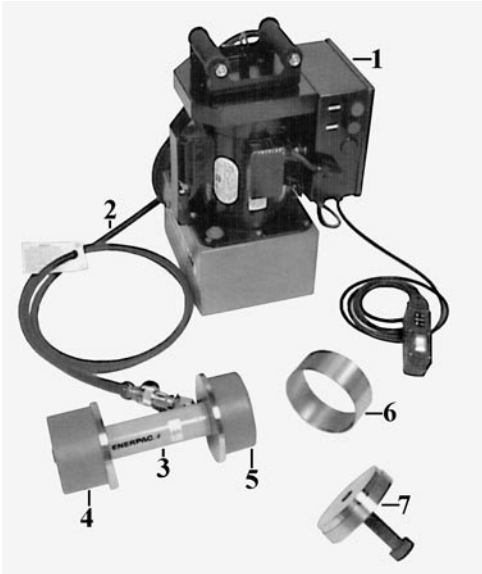
T52090 Hydraulic Cam Bearing Remover

This kit is used to remove those few camshaft bearings that are very difficult to remove. To remove a bearing, the camshaft flange is disconnected one joint toward the generator end of the engine from the identified cam bearing. All crosshead rollers are raised and pinned from the cam bearing location to the free end of the engine. The cam shaft is slid forward toward the free end of the engine sufficiently to mount the four brass spacers in the adjacent camshaft bolting flange. The hydraulic ram and adapter assembly is then bolted to the cam flange. The pump is connected to the ram and the cam bearing can then be removed with a minimum of effort.



	T52090	Hydraulic Camshaft Bearing Puller Kit
1	T17830	Pump
2	T52230	Hose
3	T52240	Adapter Assembly
4	T52250	Ram
5	T52260	Brass Spacers (4 required)

T55961 EFI Electric Hydraulic Cam Shaft Journal Bushing Installer & Remover



This tool installs and removes cam shaft journal bushings. It is equipped with a ten ton ram and two nylon protected pushing mandrels. Installing the first bushing into an engine without bushings requires the use of the starter spacer which fits over one of the mandrels. The other mandrel accommodates the bushing to be installed. The power unit is equipped with a pendant switch with three positions: advance, hold and retract. In the retract position the ram spring returns. Bushing removal is accomplished using the pushing collar provided. The unit comes with a 12' hose and the pump has four casters aiding its movement on the ramp.

1	T55971P-115V	Electric Hydraulic Pump - 115V 60Hz
1	T55961P-230V	Electric Hydraulic Pump - 230V 50/60Hz
2	T55961H	Hose
3	T55961R	Ram
4	T55961IM	Bearing Installation Mandrel (single screw into ram position)
5	T55961RM	Reaction Mandrel (two screws - onto ram base)
6	T55961SS	Starter Spacer
7	T55961PC	Pushing Collar
8	T55961C	Casters (4 required - not shown)

T55991 Cam Segment Lifter for EFI Engines



This lifter was developed to help with the installation and removal of cam shaft sections on GE EFI Engines. The need for this tool was dictated by the much heavier cam section equipping these engines as compared to the older fuel system. The lifter includes a removable "A" Frame which facilitates loading the cam section onto the lifting cradle.

T54441 Camshaft Section Bolt Torque Adapter

The Camshaft Bolt Adapter is the same adapter used for the EFI fuel pump mounting bolts. The outside diameter of the tool is .750 to allow the adapter to clear the tight clearance around the camshaft bolts.

1	T54441	Cam Section Adapter
2	T16491	30-150 lb. Ft. Torque Adapter



T58711 Cam Gear Lifter



This lifter attaches to the FDL Cam Gear and is able to rotate the gear freely 360 degrees with a wrench and mating internal gear. The lifter head engages the gear with two plates secured with a through stud and nut. The lifter incorporates ball races to rotate the gear smoothly.



The gear is then installed back onto the shaft at the proper position. A handle attaches to the bottom of the lifter to help guide the unit. The head also rotates to aid the lifter and gear into and out of the engine. A locking pin prevents the head from rotating freely.

T65570 Cam Alignment Tool

This tool is installed in place of the cam gear to accurately position the camshaft during gear replacement. The gear profiles are clearly marked 120 degrees apart and correspond to marks drawn in the cavity. The tool has an 1 1/2" nut welded to the face for easy turning and is timed with a dowel in the cam side to assure proper position on the shaft.





TRANSPORTATION EQUIPMENT SUPPLY COMPANY

G. FUEL INJECTION

G1.

- T15927 High Pressure Fuel Line Torque Kit
- T50001 High Pressure Fuel Line Removal Wrench
- T18560 Fuel Nozzle Knocker / Remover
- T54931 Fuel Line Torque Wrench
- T54932 Fuel Line Torque Wrench

G2.

- Fuel Pump Rack Setting Gauges
- T20702 Universal Fuel Rack Setting Gauges

G3.

- T11493 Fuel Nozzle Test Stand
- T14930 Offset Fuel Pump Mounting Wrench
- T14974 EFI High Pressure Fuel Pump Mounting Adapter
- T54441 High Pressure Fuel Pump Torque Adapter

G4.

- T10402 Rocker Arm Depressor
- T10404 Bent Rocker Arm Depressor

EFI Fuel Injection 1

* This section contains some tools with only EFI applications, although other EFI tools can be found scattered throughout the catalog. *

- T55971 Pushrod Height Adjustment Gauge
- T56031 Tappet Rod Holder
- T57140 Low Pressure Fuel Line Wrench
- T63260 Fuel Pump Depressor

EFI Fuel Injection 2

- T57150 Fuel Roller Retaining Plates
- T57160 Solenoid Nut runners
- T56051 Tappet Nut Torque Wrench Kit
- T59370 Robert Bosch Fuel Pump Kit

EFI Fuel Injection 3

- T59570 Bosch Fuel Pump Adapter
- T59371S Bosch Fuel Line Jam Nut Adapter
- T15926 EFI Fuel Line Torque Kit

T15927 High Pressure Fuel Line Torque Kit

This kit includes all the equipment required to torque the high pressure fuel system on newer and older GE engines.

1	T16491	Torque Handle 30-150 lb. Ft.
2	T15930	1/2" sq. drive ratcheting adapter
3	T14974	Fuel pump mounting wrench 1/2" 12 point (2 included)
4	T54441	12 pt. 1/2" adapter for fuel pump mounting bolt
7	T20250	Socket for fuel injector hold down nuts
8	T24170	Socket for fuel pump banjo fitting (newer engines)
9	T15941	7/8" open end adapter for HP fuel line (small system)
10	T23120	1" open end for small fuel syustem low pressure lines and fuel pump banjo fitting
11	T50001	1 1/4" adapter for HP fuel lines on large system
12	T20571	Metal storage box



T50001 High Pressure Fuel Line Removal Wrench for Large Fuel System



This wrench was designed to remove the most stubborn fuel lines on GE engines equipped with the large fuel system. The wrench is equipped with a 1/2" square drive to accomodate a T22520 ratcheting torque wrench, adding the ability to install the fuel line to the proper torque as well as remove it.

T18560 Fuel Nozzle Kicker / Remover

Both ends are equipped with a large tip for removing nozzles. Replacement tips are also provided with the unit.

1	T18580	Large Replacement Tip
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T54931 Fuel Line Torque Wrench

Low and high pressure fuel line torque wrench set for GE engines equipped with large fuel systems.

1	T54930W	Torque Wrench 22-220 lb. Ft.
2	T54931A	Fuel Line Adapter

T54932 Fuel Line Torque Adapter

This adapter is a heavier duty version of the T54931 shown with a T54931H Break Loose Handle. It can also be used with the T54931W Wrench for torquing. The adapter and brak loose handle can be used as a lightweight alternative to the T50001 High Pressure Line Wrench.



Fuel Pump Rack Setting Gauges

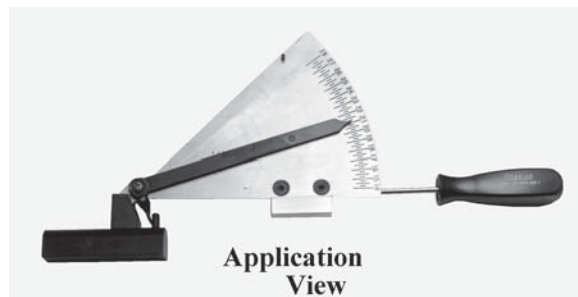
These gauges are used for GE engines with large fuel pump systems. Precise fuel settings can be accomplished by using these gauges. Exact full load settings are made easily by selecting the proper gauge.



T20290	Fuel Rack Gauge 16 3/4 mm
T20300	Fuel Rack Gauge 17 1/2 mm
T20310	Fuel Rack Gauge 18 mm
T20320	Fuel Rack Gauge 18 1/2 mm
T20330	Fuel Rack Gauge 18 3/4 mm
T20340	Fuel Rack Gauge 19 mm
T20350	Fuel Rack Gauge 19 1/4 mm
T20360	Fuel Rack Gauge 19 1/2 mm
T20370	Fuel Rack Gauge 19 3/4 mm
T20380	Fuel Rack Gauge 20 mm
T20390	Fuel Rack Gauge 20 1/2 mm
T20400	Fuel Rack Gauge 20 3/4 mm
T20410	Fuel Rack Gauge 21 mm
T20420	Fuel Rack Gauge 21 1/2 mm
T20430	Fuel Rack Gauge 21 3/4 mm
T20440	Fuel Rack Gauge 22 mm
T20450	Fuel Rack Gauge 22 1/4 mm
T20460	Fuel Rack Gauge 22 1/2 mm
T20470	Fuel Rack Gauge 23 mm
T20480	Fuel Rack Gauge 23 1/2 mm
T21220	Fuel Rack Gauge 23 3/4 mm
T20490	Fuel Rack Gauge 24 1/4 mm
T20500	Fuel Rack Gauge 25 mm
T24110	Fuel Rack Gauge 23 3/4 mm
T24120	Fuel Rack Gauge 23 1/4 mm
T24130	Fuel Rack Gauge 24 mm
T24140	Fuel Rack Gauge 24 1/2 mm
T24150	Fuel Rack Gauge 24 3/4 mm

T20702 Universal Fuel Rack Setting Gauges

These gauges allow setting racks from 14 to 28mm and are provided with a master setting block of 21mm for calibration. One gauge will set fuel racks on all GE engines equipped with mechanical racks.



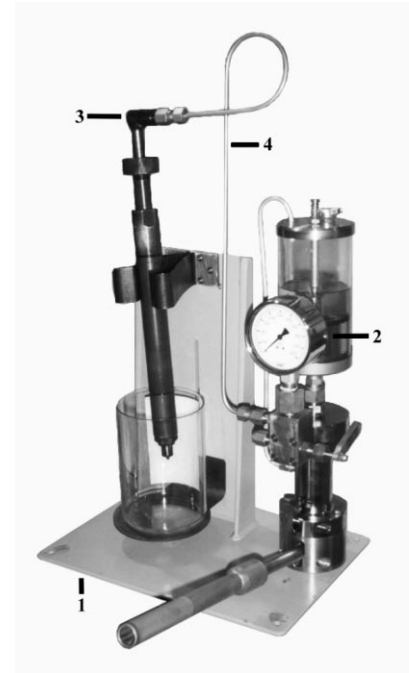
T11493

Fuel Nozzle Test Stand

The nozzle test stand is used to check nozzle pop pressures, spray patterns and dribble rates. The tester has an intensifier which allows gradual pressure elevation to allow for close pop observation.

The speed connectors utilize “O” rings that require only hand tightening and loosening of the connection.

1	T18940	Nozzle Test Stand - Includes handle and gage
2	T20690	Gauge
3	T14441	Speed Connector - Small Nozzle
	T14441R	"O" Ring for small nozzle (package of 6)
	T14911	Speed Connector - Large Nozzle
	T14911R	"O" Ring for large nozzle (package of 6)
4	T16422	Fuel Line



T14930

Offset Fuel Pump Mounting Wrench

This wrench is used to torque or remove the fuel pump mounting bolt below the fuel rack on older engines. It is equipped with an offset to accommodate clearance. The drive is 1/2" square female.

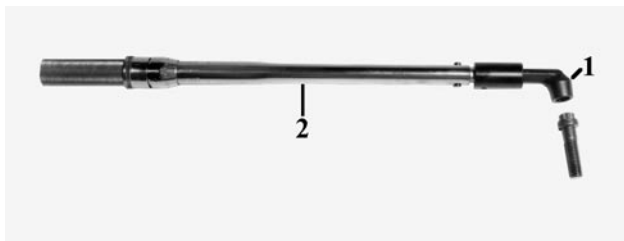


T14974

EFI High Pressure Fuel Pump Mounting Adapter

This wrench is used to torque or remove the fuel pump mounting bolts on an EFI fuel pump. It has a 1/2" square female drive.

T54441 Torque Adapter for High Pressure Fuel Pumps



The T54441 used on GE engines using 12 point mounting bolts. This adapter was designed for torquing the high pressure fuel pump mounting bolt located under the fuel rack. The adapter accommodates the 12 point bolt and is used with the T16491 torque handle.

1	T54441	Torque Adapter
2	T16491	30-150 lb. ft. Torque Handle



T10402 Rocker Arm Depressor



This depressor has been requested by various railroads to aid Rocker Arm Depression allowing for pushrod removal and installation.

This rocker arm depressor incorporates a 60° bend in the handle and approximately 15” extra length over the original T10401 Rocker Arm Depressor. These features greatly enhance the machinist’s leverage.

Also incorporated is a profile escapement where the depressor engages the rocker arm. This ensures that it will not pull off the arm.



T10404 Bent Rocker Arm Depressor



This depressor has also been requested by various locations to aid rocker arm depression allowing for pushrod removal and installation.

This particular depressor incorporates the same profile escapement as the T10402 which ensures that the depressor will not pop off. It was designed to allow the machinist to push straight forward to depress the rocker arm instead of pulling from overhead.

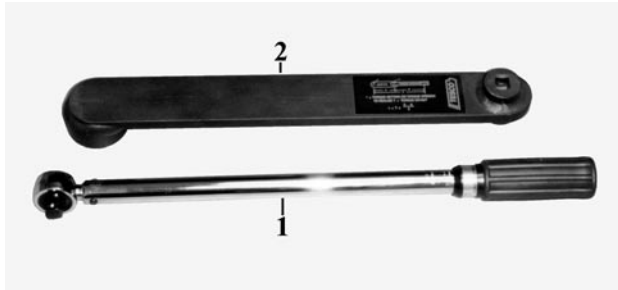


TRANSPORTATION EQUIPMENT SUPPLY COMPANY

H. Turbocharger

H1.

- T23520 Turbocharger Mounting Bolt Torque Kit
- T19162 Turbocharger Lifter
- T50370 Turbocharger Transition Section to Exhaust Inlet Casing Wrench
- T22552 Turbocharger Service Cart



T23520 Turbocharger Mounting Bolt Torque Kit

All turbocharger mounting bolts on GE Engines require torquing per the maintenance instructions. This kit provides the tools for that practice.

1	T22520	1/2" sq. drive ratcheting head 30-150 lb. Ft. torque wrench
2	T23500	Adapter

T19162 Turbocharger Lifter

This lifter is designed to remove and install all turbochargers on GE Engines. Three turnbuckles are provided to assist leveling the turbocharger. The **T19163** version is also available and incorporates longer bolts to attach to the turbo through the mounting spacer plate.

1	T19162TA	Turnbuckle Assembly
2	T13971	Captive Bolt - Grade 8 (4 required)
	T13973B	Replacement Long Bolt (4 required)



T50370 Turbocharger Transition Section to Exhaust Inlet Casing Wrench

This wrench is used to torque and loosen the socket head cap screws that secure the exhaust manifold section to the turbocharger exhaust inlet casing. The input is a 1/2" female square and the output is a heavy duty 3/8" hex bit.

T22552 Turbocharger Service Cart

This cart was developed to aid the disassembly and assembly of GE Turbochargers. The turbocharger is mounted in the cage and secured with four hold down bolts. The cage is powered by an electric motor and gear that turns 360 degrees in either direction. The motor is operated by a push button and when released a mechanical brake locks the cage in place. Please specify a 115 Volt 50/60Cy 1 Phase unit or a 230V 50/60Cy 1 Phase unit.





TRANSPORTATION EQUIPMENT SUPPLY CO.

I. Governor

II.

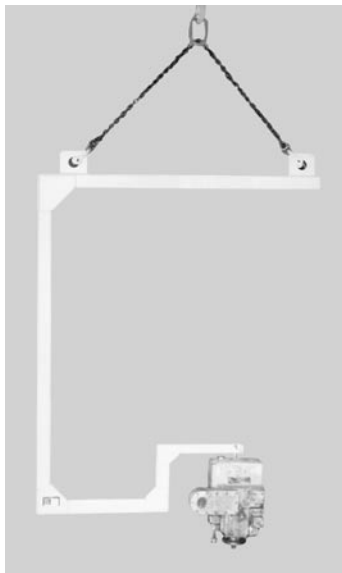
- T15804 Fuel Rack Jack
- T12962 Governor Gap Gauge
- T55602 Governor Lifting Tool with Chain Fall

T15804 Fuel Rack Jack for engines equipped with a Layshaft



This fuel rack jack can be utilized on GE Engines equipped with a layshaft. It can be mounted on a governor gear box with a ratchet and 3/4" socket as well as adjusted to provide the .343 full load fuel position necessary for fuel pump adjustment. It incorporates an emergency trip feature to quickly release the governor tail rod to the shut down position.

This tool is used with the T12962 governor gap gage and the various fuel rack setting gages we supply.



T55603 Governor Lifting Tool with Chain Fall

This tool is used to remove and install engine governors on both GE and EMD locomotives. A threaded adapter is screwed into the top of the governor, replacing the eye hook, and is slid into the slot at the tip of the lifter. A safety bar is then placed over the end to ensure the adapter does not slide out. It is also equipped with a chain fall configuration that allows for level pickup of the governor.

T12962 Governor Gap Gauge

The governor gap gauge provides the .343 full load and 1.000 idle dimensions for setting governors and fuel racks. A must for fuel rack setting.





TRANSPORTATION EQUIPMENT SUPPLY COMPANY

J. TRACTION MOTOR

J1.

Induction Heaters for Traction Motor Pinions
T50850 752 Traction Motor Pinion Puller Set

J2.

T52210K Traction Motor Axle Cap Torque Kit
T58300 AG & AH Traction Motor Gear Case Torque Kit
T58080 Cam Car Installation and Removal Kit

J3.

AH & AG Spot Facing Tools
T51560 Universal Traction Motor Pinion Advance Gauge
T59670 Traction Motor Pinion Application Tools

J4.

T51630 Spanner Wrench
T50490 Armature Shaft / Pinion Taper Gage Set (752 Motors)

J5.

T58592 AC Traction Motor Speed Sensor Kit

Induction Heaters for Traction Motor Pinions

These heaters were designed and developed to aid traction motor pinion removal on General Electric Deisel Electric Locomotives. They are used in conjunction with the conventional hydraulic removal equipment.

The procedure was developed as follows: Install the induction heater on the pinion and connect the hydraulic tubing, gage and pump assembly complete with the proper backing plate. Pump the hydraulic assembly until 15,000 PSI is indicated on the gage. Turn the induction heater on and heat the pinion until the pressure begins to drop on the gage then pump vigorously to complete pinion removal.

For specific details contact TESCO. We can also help provide complete hydraulic equipment per your specific requirements.

- T60170 230 Volt Induction Heater for 752 Motors
- T60171 460 Volt Induction Heater for 752 Motors
- T60220 230 Volt Induction Heater for 761 Motors
- T60221 460 Volt Induction Heater for 761 Motors

**** The T60170 & T60171 also work on EMD motors. ****



T50850 752 Traction Motor Pinion Puller Set

The GE 752 Traction Motor Pinion Puller Set has been re-designed to provide all high pressure fittings rated at 60,000 PSI. The pump provided is rated at 40,000 PSI.

WARNING: This kit is utilized to remove 752 traction motor pinions hydraulically. Pinion retainer plates which bolt into the end of the armature shaft must be utilized when operating this equipment.

NOTE: Tubing as illustrated with 2 - T50730 Tubing Sleeves and 2 - T50870 Gland Nuts is catalog # T50920.

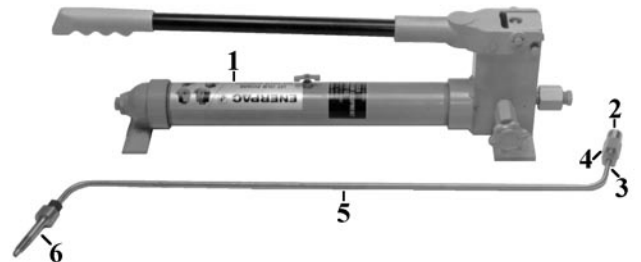
*Should you require Pinion Retainer Plates, TESCO will build them to order.

T50890 Retainer Plate for GE 752 armature Shaft with threaded end.

T50900 Retainer Plate for GE 752 Armature Shaft with two threaded 1.00" - 8 holes on end of shaft.

T50910 Retainer Plate for GE 752 Armature Shaft with one threaded 1.00" - 8 hole on end of shaft.

T50850GK Gauge Kit - this kit includes a 0-30,000 PSI gauge and manifold complete with all high pressure connections to be inserted between the pump and tubing assembly.



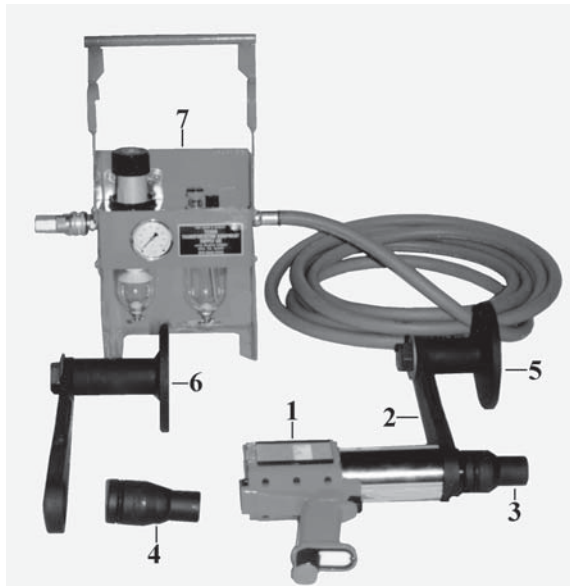
1	T50860	Hydraulic Pump (40,000 PSI)
2	T50740	High Pressure Pump to Tubing Adapter
3	T50730	(2) Tubing Assembly
4	T50870	(2) Gland Nut
5	T50920	Tubing Assembly with 2-T50730 Sleeves and 2-T50870 Nuts
6	T50880	Armature Shaft Pressure Adapter
	T50720	Tubing (Only)

T52210K Traction Motor Axle Cap Torque Kit

This kit consists of a 5 to 1 verifier, rated at 1250 lb.ft., with a 3/4" square female input and a 1" square male output. The kit also includes 2 - 1 7/8" sockets, 2 - 2" sockets, 2 - 2 1/4" sockets, 1 - 10" extension, 1 - 16" extension, 1 - universal joint and a storage box.

Most locomotive traction motors can be serviced with these tools.

1	T52210	5:1 Verifier
2	T52210-S1	1 7/8" Socket (2 required)
3	T16000	2" Socket (2 required)
4	T52210-S2	2 1/4" Socket (2 required)
5	T52210-E10	Extension 10"
6	T52210-E16	Extension 16"
7	T52210-UJ	Universal Joint
8	T52210-SB	Storage Box



T58300

Gear Case Torque Kit for AG and AH Traction Motors

This kit torques both AH and AG Gear Case Bolts quickly and properly.

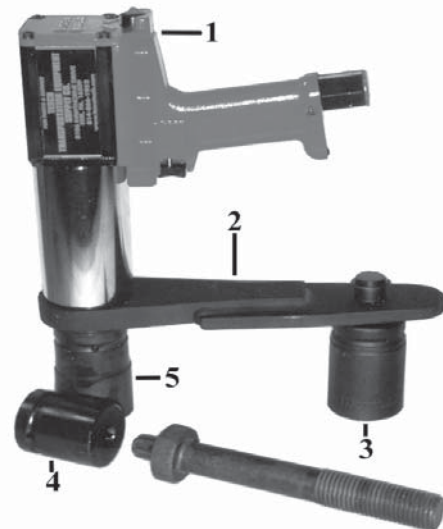
1	T58300	Torque Motor (1,500 lb. Ft. max)
2	T58300-RAG	Reaction Arm
3	T58300-S	AH Drive Socket
4	T58300-SAG	AG Drive Socket
5	T58300-2	AH Standoff Adapter
6	T58300-AGSO	AG Standoff Adapter
7	T50041	Air Control Kit

T58080 Cam Car Installation and Removal Kit

This kit was designed for use on the GE AC traction motor nose supports. It is used to install Cam Car Bolts by twisting the drive tang off ensuring proper installation. In addition a removal socket is included for removal of the bolt.

CAUTION: Ensure that the air motor is running off clean air supply with a mist of lubricating oil.

1	T58080-AM	Torque Motor
2	T58080-RA	Reaction Arm
3	T58080-RS	Reaction Socket
4	T58080-CS	Cam Car Installation Socket
5	T58080-CRS	Cam Car Removal Socket





AG and AH Spot Facing Tools

These tools are used to resurface the bolting surface on used gear cases that were run with loose joints. They reestablish proper bolting surfaces.



T58430-6	AH Spot Facing Tool
T58580	AG Spot Facing Tool

T51560 Universal Traction Motor Pinion Advance Gauge

This gauge is improved over prior two leg models in that with three legs an exact plane can be established and very accurate readings obtained. The gauge is calibrated in .001" increments and will accept advance readings up to .250".

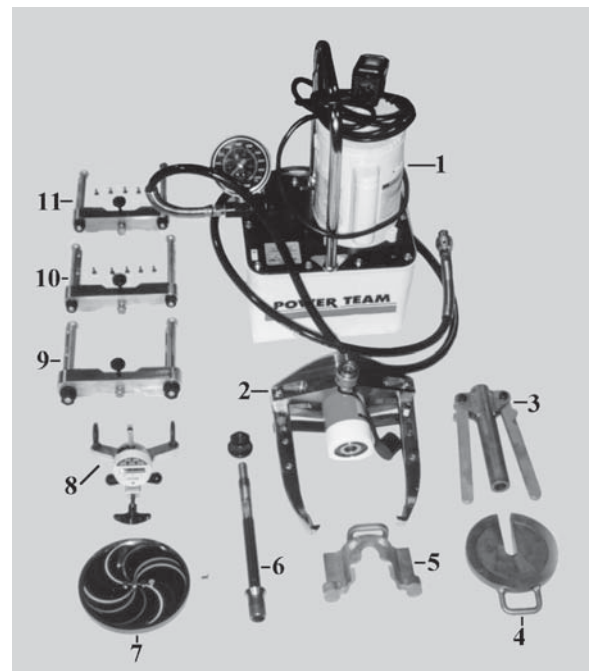
Three leg diameter positions are provided to ease working on various diameter pinion applications.



T59670 Traction Motor Pinion Application Tools

For use on GE 752 Traction Motors. The T59770 kit is also available for the GE 761 Traction Motor.

Ref.	TESCO #		Description:
	T59670	Includes:	
1		*	Hydraulic Pump Kit with gage & hose assy. (set to relieve at 7000PSI)
2		*	Cold Snap Pinion Puller
4		*	Pressing Plate
5		*	Snubber Assembly
6		*	Centering Stud
3	T59700		Mechanical Pinion Advance Tool
8	T59680	Includes:	Pinion Advance Gage Assembly
7		*	"0" Setting Gage
9	T59690-22		22 Tooth Hot Stop
10	T59690-20		20 Tooth Hot Stop
11	T59690-18		18 Tooth Hot Stop





T51630

Spanner Wrench

Specifically designed for commutator end, bearing nuts on GE-752 Traction Motors.

1	T51630P	Pin (2 required)
2	T51630S	Screw (2 required)

T50490 Armature Shaft/Pinion Taper Gauge Set for GE 752 Motors

For use with GE Traction Motors.
Refer to GE Maintenance Instructions for details of operation.

T59710 Taper Gauge Set for GE 761 Motors (Not Shown)

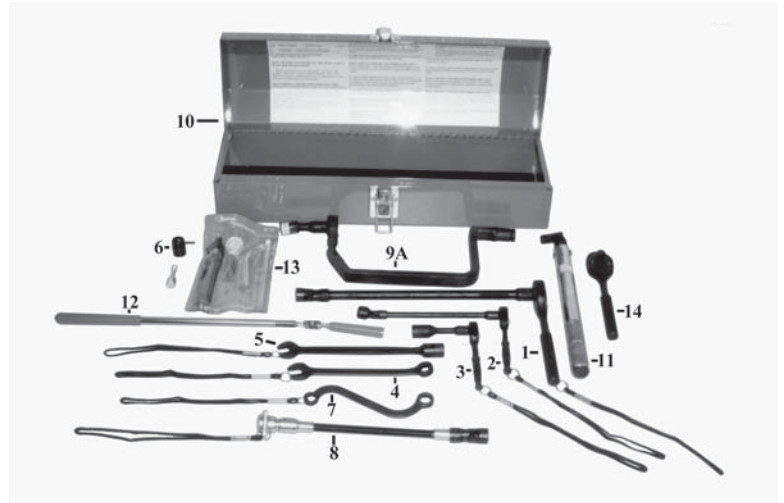
T59720 Taper Gauge Set for EMD Domestic Motors (EMD Ref# 8040553) Not Shown



T58592 AC Traction Motor Speed Sensor Installation and Removal Kit

This kit was developed to aid the difficult removal and installation of speed sensors on GE AC Traction Motors. All assemblies have been pinned together and are equipped with lanyards to prevent dropping components into the traction motor cavity. **If dropped they must be removed.** The head of the sensor mounting bolt is 1/2" across the flats. The various combination of wrenches are useful to provide random access to difficult bolt head locations.

The T58592 kit was recently developed to address the newer truck styles that could not be accessed with the old kit. An inspection flashlight and telescoping magnet have also been included.



1	T58591-1	Ratchet, Extension & Universal
2	T58591-2	Ratchet, Extension & Universal
3	T58591-3	Ratchet, Extension & Universal
4	T58591-4	Box Wrench
5	T58591-5	Flex Box Wrench
6	T58591-6	Socket
7	T58591-7	"S" Pattern Wrench
8	T58591-8	Flex Extension & Socket
9	T58591-9A	Torque Adapter
10	T58591-10	Box
11	T58591-11	Torque Handle set at 15 lb. Ft.
12	T58591-12	Magnetic Retriever
13	T58591-13	Inspection Light & Mirror
14	T58591-14	3/8" Ratchet



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

K. TEST & CONTROL

K1.

T22062 Preturbine Temperature Measuring Kit
T54210 Test Gauge Kit
T12270 Crankshaft Deflection Gauge
T12290 Magnetic Base Dial Indicator

K2.

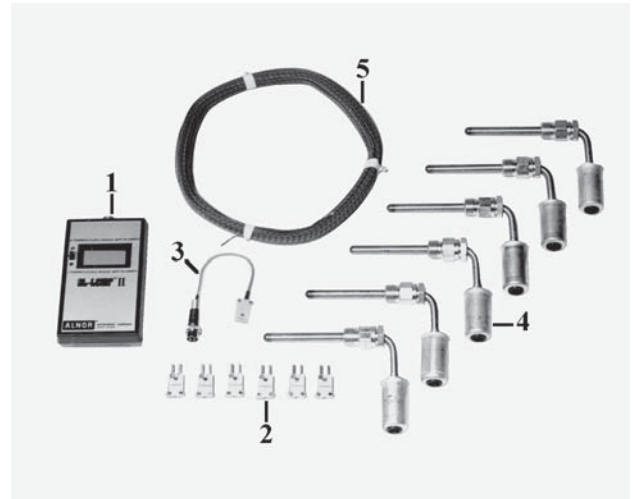
T19951 Crankcase Overpressure Switch Tester
T15491 Hand Held Tachometer
T70102 Digital Multimeter

T22062 Preturbine Temperature Measuring Kit

The preturbine temperature measuring kit features a digital instrument with direct readings from -40° to +1,999° F. A chart is attached to the back of the instrument to convert 0° F to 0° C. It is powered by a 9V alkaline battery (radio type). The thermocouple used is of the type K variety.

NOTE: The red wire in the thermocouple extension should always be connected to the negative terminal.

	T22062	Preturbine Temperature Measuring Kit
1	T22072	Digital Instrument
2	T22090	Connector - Male
3	T50260	Adapter (instrument to thermocouple lead)
4	T22100	Thermocouple Probe - (6 in kit)
5	T22110	100' thermocouple extension type K



T54210 Test Gauge Kit

This kit has three heavy duty glycerin filled pressure gauges (0-60, 0-100, 0-200 PSI) equipped with Hansen 2-HK Series Sockets. It is used to take pressure readings on locomotives equipped with test fittings. The kit comes complete with a metal box.

T54210-60 0-60 PSI Gauge Complete with Socket

T54210-100 0-100 PSI Gauge Complete with Socket

T54210-200 0-200 PSI Gauge Complete with Socket

T12270 Crankshaft Deflection Gauge

The crankcase deflection gauge is used to determine crankshaft deflection during generator and alternator installation. The gauge and appropriate mandrel are installed between the webs of the closest crankpin to the generator/alternator coupling. For exact procedure follow the General Electric Instruction Manual covering this installation.



T12290 Magnetic Base Dial Indicator

The magnetic base dial indicator is used to check the crankshaft thrust clearance and various backlash readings. The high precision gage comes with .0005 dial increments, and the magnetic base is controlled with a button built onto the base. The gage also comes with an extension and a swivel adapter for easy adjustments.

T19951 Crankcase Overpressure Switch Tester

This tool is useful in setting pressure trip points on crankcase overpressure switches and in trouble shooting engines that have been reported with COP trips.

The gauge is calibrated for +/- 0-20 inches of water.



T15490-1 Hand Held Tachometer

This hand held tachometer kit includes 5 speed tips, male and female cones and an extension.

Speed: 0-200 RPM

Range: 0-2,000RPM

0-20,000RPM

Accuracy: +1/2 of 1% full scale



T70102 Digital Multimeter

Voltage 200mv - 1500v DC

200mv - 1000v AC

Complete with case and leads



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

L. Miscellaneous

L1.

- T18500 Blast Cleaning Machine
- T23320 High Pressure Hot Water Cleaner

L2.

- T50933 Radiator Fan Lifter
- T55066 Dynamic Brake Grid Lifter
- T54922 Battery Lifter
- T55420 Front End Cover Lifter
- T55431 Intercooler Lifter
- T55440 Governor Gear Box Lifter

L3.

- T50380 WABCO Valve Cage Wrench
- T54831 Core Plug Ratchet Wrench
- T2X2823 Diode Torquing Wrench
- T2X2437 Spicer Drive Blower Coupling Bolt Wrench
- T54720 Axle Cap Pipe Plug Wrench

L4.

- T70051 Heavy Duty Fan Remover
- T13640 Alternator to Crankshaft Coupling Bolt Wrench
- T50700 Bearing Nut Wrench
- T19910 Cylinder Release Plug Adapter Drive
- T15250 BCO Turbocharger Core Plug Spanner Wrench
- T15240 BCO Turbocharger Core Plug Spanner Wrench

L5.

- T58902 Radiator Bank Lifter
- T57720 Ground Protection Device
- T59331 Spreader Beam
- T57400 Inertial Filter Blower Motor Impeller Remover

L6.

- T59360 Keensert Insert Drivers (#'s 1 through 16)

L7.

- T59520 Locomotive Motoring Device
- T58330 "T" Handle Wrench

L8.

- T16884 Universal GE 7FDL Engine and Alternator Lifter



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T18500 Blast Cleaning Machine

This blast machine is used to clean carbon, varnish, rust or other buildup from engine components. Compressed air to the blast nozzle is controlled by a switch activated by the operators elbow. An air pressure regulator is provided to adjust blast intensity. A dust collection system is provided by with a slip out tray for removal of debris. Glass bead media is used where components are to be cleaned without affecting their critical dimensions

Height 95" Depth 66" Width 50"



T18500	Complete Bast Cleaning Machine
T18501	Complete Bast Cleaning Machine w/ parts tumbler mounted on access door for automatic cleaning
T18470	Replacement Air Hose
T18480	Replacement Abrasive Hose
T18510	Viewing Window
T18520	Rubber Gloves (Pair)
T18530	Rubber Gauntlets
T18490	Abrasive Gun - with tungsten carbide orifice
T18540	Replacement Dust Bags
T18550	Glass Bead Media - BT10 for general cleaning (50 lb. Bag)
T18551	Alluminum Oxide - 80 grit for more severe cleaning

Domestic Voltage: 230V 3PH 60CY for blower motor
115V 1PH 60CY for control circuit
Export Voltage: 230V 3PH 50CY for blower motor
230V 1PH 50CY for control circuit

NOTE: AT 80PSI, approximately 85 CFM of air is required to power this machine. This demand can be supplied by a 20hp air compressor minimum for constant duty operation.

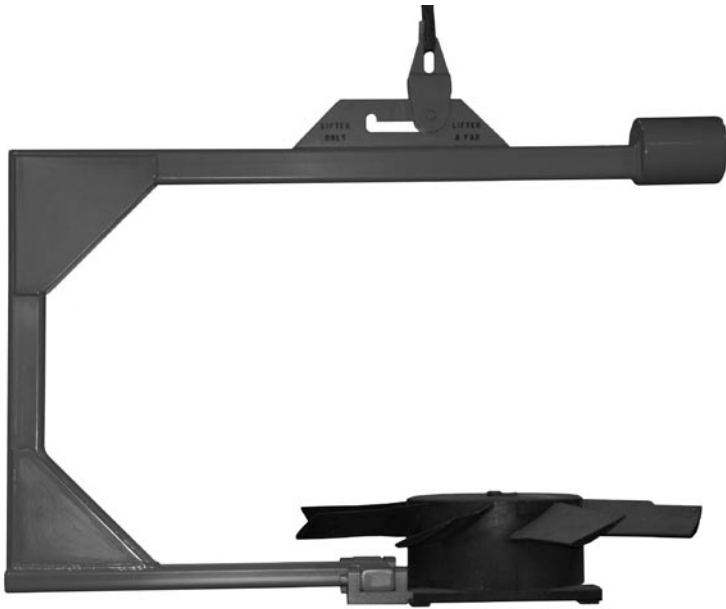
High Pressure Hot Water Cleaner for Inlet Port Cleaning

This machine delivers up to 210°F water at 2,000 PSI at a rate of 4 gallons per minute. Water is heated by a diesel fuel oil fired burner. The kit includes both the special and general purpose wands, necessary hoses and protective clothing.

This kit allows a crew of two men to completely clean inlet ports in on a 16 cylinder engine, including engine assembly and disassembly in an 8 hour shift. This kit is also most useful for other locomotive cleaning jobs.



Kit #	Spare Parts #	Pump Drive Description
T23320	T23470	208V 60HZ 3PH Motor
T23340	T23460	230V 60HZ 3PH Motor
T23330	T23440	230V 50HZ 3PH Motor
T23380	T23410	Gas Engine (Battery Start)
T23390	T23400	Diesel Engine (Battery Start)
T23270	Ref. 1	Straight Wand
T23280	Ref. 2	90 degree Wand



T50933 Radiator Fan Lifter for GE 5GYA30 Motorized Fans

This lifter aids removal and installation of 5GYA30 Motorized Fans in Dash 9 locomotives. It features an adjustable pick up fixture between two points, one allowing the lifter alone to be lifted level and the other allowing the lifter with the fan to be lifted level.

T55066 Dynamic Brake Grid Lifter



This lifter was designed to ease installation and removal of dynamic brake grids on Dash 8, Dash 9 and AC modified locomotives. A clearance slot has been added to allow for the insulator on later model locomotives. The hinged lifting paws attach quickly to the grid and minimize grid change out time. Locks have been added to secure grid during lifting. **Caution:** Inspect fit before use. Numerous modifications have occurred from the tools inception to accommodate OEM dimension/configuration changes, and OEM design changes still occur frequently. Will not work on any non-GE grids.

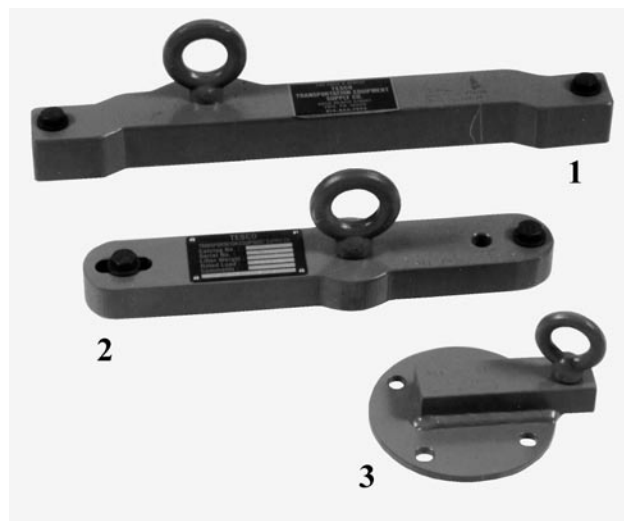


T54922 Battery Lifter

This tool was developed to ease the installation and removal of batteries on GE engines.

L2

GE Back Shop Lifters

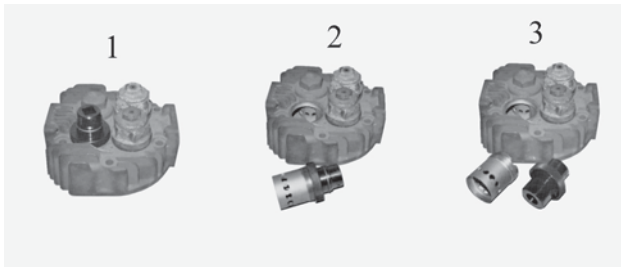


- 1 - T55420 Front End Cover Lifter
- 2 - T55431 Intercooler Lifter
- 3 - T55440 Governor Gear Box Lifter

T50380 Valve Cage Wrench for WABCO Air Compressors

This tool was developed to simplify installation and removal of WABCO Air Cages.

- 1 Wrench is held captive on cage. Knurled collar is screwed on to outside diameter of cage threads.
- 2 Cage is shown as removed from cylinder head - captive to wrench.
- 3 T50380 Valve Cage Wrench is equipped with a 1" square female drive that can be driven with a 1" square drive breaker bar or slugging wrench.



T54831 Core Plug Ratchet Wrench

This tool was designed to remove leaking engine core plugs without removing cylinders and exhaust manifold sections. Installation of new core plugs can also be accomplished by reversing the ratchet. The input drive is 3/4" female.

1	T54831	Ratchet
2	T54831U	Universal
3	T54831E	Extension



T2X2823 Diode Torquing Wrench

This wrench is equipped with a 3/8" square drive input and can torque 1 1/4" hex power diodes. Proper torque is most important to ensure satisfactory performance of the power conversion unit.



T2X2437 Spicer Drive Blower Coupling Bolt Wrench

This wrench is used to torque and loosen Spicer drive coupling bolts. It is equipped with a 3/8" female square drive input and a 5/16" hex bit on the output end.



Axle Cap Pipe Plug Wrench

This wrench is used for removal and installation of axle cap pipe plugs.

NOTE: Nicked or damaged pipe plug ends may require the use of the T54721 Wrench.

1	T54720	9/16" & 13/16" Square Female Drive Ends
2	T54721	9/16" & 13/16" Double Square Drive Female Ends



T70051 Heavy Duty Fan Remover

This tool is essential for removing radiator fans on GE Locomotive GA57 Fan Units. The tool body is heat treated and the jacking bolt is of grade 8 specification ensuring long life and durability.

T13640 Alternator to Crankshaft Coupling Bolt Wrench

This wrench features a 1" square drive input and 1 7/8" box end adapter. It can be driven by the T18250 0-1000 lb.ft. torque wrench to accommodate bolt tightening. This wrench will fit on all GE engines (excluding the 6000HP Model), including the EFI Models equipped with timing gears for Bosch Fuel Pumps.



The T13641 has been obsoleted due to a clearance problem with the new GE split gears.



T50700 Bearing Nut Wrench

Specifically for radiator fan-clutch gear unit (GE type GDY72). This wrench is equipped with a 3/4" square female drive. GE part # 493A948P1.

Spanner Wrenches for GE Engines

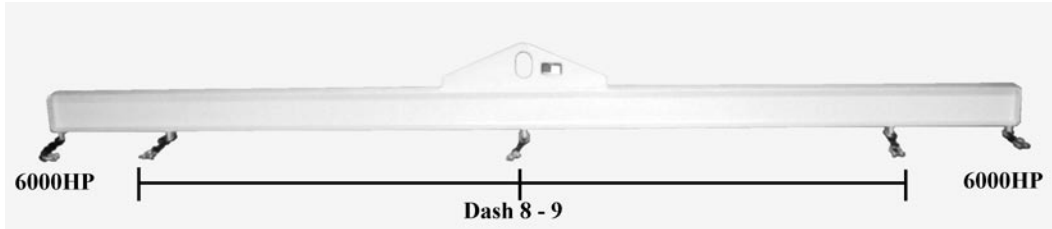
These wrenches are offered to aid removal and installation of the various devices described below.



1	T19910	Cylinder Release Plug Adapter Drive. This unit is equipped with a 1/2" sq. drive to allow for torquing and removal of the current release plug bolt
2	T15250	Spanner Wrench for BCO Turbocharger Core Plugs with 1 1/2" hole spacing. It is equipped with a 1 1/8" male hex to drive the wrench.
3	T15240	Spanner Wrench for BCO Turbocharger Core Plugs with 3/4" hole spacing. It is equipped with a 1 1/8" male hex to drive the wrench.

T58902 GE Radiator Bank Lifter

This lifter is rated at 3600 LBS and can be used for Dash 9 & AC6000 radiator bank installation & removal. It also comes with dedicated lifting points for the GE Evo Engine (not shown in picture).



T59331 Spreader Beam

Rated at 7 1/2 tons - this spreader beam can lift loads such as engine cabs (2 required). Pick up spacing is provided from 48" to 104". Custom sizes/ratings available.



T57720 Ground Protection Device

This ground protection device is used for microprocessor locomotives & includes a 5 AMP replaceable fuse. It is also equipped with alligator clips on each end for easy connection.



T57400 Inertial Filter Blower Motor Impeller Remover

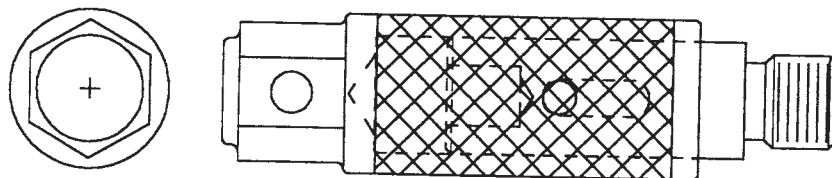
The 1"-8 threaded hole is installed into the impeller threads, tightened and struck on the opposite end for removal.

T59360 Keensert Installation Tools



These Keensert Installation Tools were developed to easily install Keenserts that can normally be difficult. The tool consists of a threaded stem and a spring loaded follower. The Keensert is installed into the hole that accepts that particular insert, and the tool is tapped with a hammer to drive the locking spines in place around the insert. The tool can then be removed. The following sizes are displayed on the chart below.

T59360-1	1/4"-24 Heavy Insert Driver
T59360-2	5/16"-24 Thin Insert Driver
T59360-3	5/16"-24 Heavy Insert Driver
T59360-4	3/8"-16 Heavy Insert Driver
T59360-5	3/8"-24 Thin Insert Driver
T59360-6	3/8"-24 Heavy insert Driver
T59360-7	3/8"-24 Extra Heavy Insert Driver
T59360-8	7/16"-24 Thin Insert Driver
T59360-9	1/2"-13 Heavy Insert Driver
T59360-10	1/2"-20 Thin Insert Driver
T59360-11	1/2"-20 Heavy Insert Driver
T59360-12	1/2"-20 Extra Heavy Insert Driver
T59360-13	5/8"-18 Heavy Insert Driver
T59360-14	3/4"-16 Heavy Insert Driver
T59360-15	7/8"-14 Heavy Insert Driver
T59360-16	1"-14 Heavy Insert Driver





TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T59520 Locomotive Motoring Device

The T59520 plugs into the reverser on the control stand allowing the engineer to “jog” the locomotive using battery power to run the traction motor. The other end is plugged into an electrical receptacle providing power to the unit.



T58330 “T” Handle Wrench

This convenient wrench is equipped with both a 1/2” and a 9/16” socket in addition to the 1/2” deep well socket doubling as the handle.

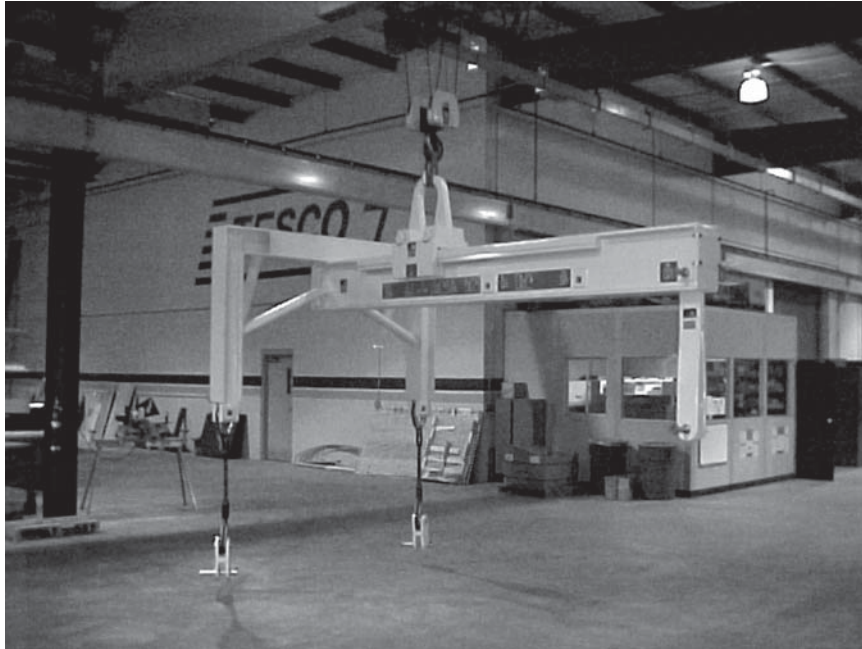
T63640 Tailrod Stud Adjusting Socket

This tool has a .250 X .450 slot milled into the face to accommodate the flat on the Tailrod Studs. It has a 1/2” square drive.





TRANSPORTATION EQUIPMENT SUPPLY COMPANY



T16884 Universal GE 7FDL Engine & Alternator Lifter

This lifter will accommodate 8, 12 and 16 cylinder 7FDL engines as well as engines with generators and alternators. The lifter is rated 80,000 LBS and provides incremental 1/2" pick-up points by way of a Boston Gear arrangement. This ensures level pick-up.



EMD Tools

TESCO has developed a wide range of tools to support the EMD diesel locomotive engine. End users have been instrumental in the development and evolution of these tools-and the processes used with them. TESCO tools are available to support the 567, 645 and 710 EMD Engines.

Perhaps the most widely accepted recent development for the EMD Engine has been the "C" Frame Manipulator and the appliances associated with it. The "C" Frame Manipulator is used to install or remove heavy engine components such as the power assembly, air compressor, auxiliary generator, turbo aftercooler duct, or lube-oil cooler. Manipulators are available with either the manual pump or air-assist option.



We also carry, and in most cases stock, most of the EMD general maintenance tools and supplies-hydraulics, pneumatics, lifting fixtures, etc.

Compression Tester Sets

Presently over 12000 of these testers are in service around the world and represent an outstanding product.

Through their use, customers can determine very quickly faulty cylinders. They have virtually eliminated earlier blow-by test procedures. Complete instructions are included.

Individual Testers

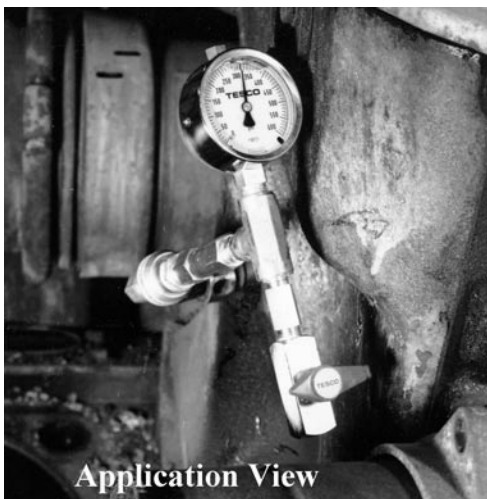
- T13683** Compression Tester - GE
- T50213** Compression Tester - EMD
- T50023** Compression Tester - ALCO



T22303 (set of 8 - T13683 Testers with box and T50960 Governor Stop Block) for all GE Engines

T50980 (set of 8 - T50213 Testers with box) for all EMD Engines

T51440 (Set of 8 - T50023 Testers with box) for ALCO 251 Engines



1	T50121	Gauge
2	T50330	Tee
3	T50341	Nipple
4	T50142	Release Valve
5	T50131	Check Valve
6	T50192	Filter
7	T50171	Socket
8	T50181	Plug
9	T50160	EMD Adapter - complete w/plug
10	T50420	GE Adapter - complete w/plug
11	T50010	ALCO Adapter - completew/plug
12	T50960	Governor Stop Block
13	T22711	Storage Box

T51740 EMD Cooling System Test Kit

T51740 - EMD Cooling System Test Kit

- 1 - T51760 Water Regulator Kit
- 1 - T51770 EMD Fill Neck Pressure Fixture

T51770 - EMD Fill Neck Pressure Fixture

- 2 - T51850 Tang
- 1 - T51860 Gasket
- 6 - T51870 Screw

T51760 - Water Regulator Kit

- 1 - T51800 Inlet Valve
- 1 - T51790 Water Regulator
- 1 - T51820 1/2" Pipe Cross
- 1 - T51830 Pressure Gage (0-60 PSI)
- 3 - T51840 1/2" Nipple
- 1 - T51800 Dump Valve
- 1 - T51810 Dump Hose
- 1 - T16040 Hose
- 1 - T50150 Cage



This kit is designed to introduce 20 PSI water pressure to the cooling system via the water tank fill neck. The fill neck pressure fixture is placed on the fill neck the same as the locomotive pressure cap and a spring is then compressed to ensure a positive seal at 20 PSI. Other pressures can be utilized depending on railway mechanical specifications from 0-25 PSI.

House water is connected to regulator kit with the inlet valve closed, the dump valve closed and the pressure regulator backed off (minimum spring pressure). The inlet valve is then opened and pressure increased by the regulator to 20 PSI. Once the system is charged, the inlet valve is closed. Pressure should be maintained, otherwise a leak in the system is present.

NOTE: Sufficient time should be allowed for the system to be charged - if inlet valve is closed and the gage immediately reads less than 20 PSI, the system is not charged. Open inlet valve and finish charging system. If leaks are indicated, a full system inspection is required including an engine crankcase inspection.

T51770-60 EMD Fill Neck Pressure Fixture



For Series 50-60 Locomotives that feature three tangs on the fill neck and have a 2 1/4" diameter sealing gasket.

1	T51850	Tang (3 required)
2	T51861	Gasket
3	T51870	Screw (6 Required)

Custom higher relief pressures can be supplied upon request.

Once the test is complete, with the inlet valve closed, back off the pressure regulator to minimum spring pressure and open the dump valve to release the water under pressure. Direct the water away from all personnel by holding and directing the dump hose. Once the gage reads "0" and all flow is stopped, the fill neck pressure fixture can be removed. First reduce the spring pressure and then remove the fixture from the fill neck.

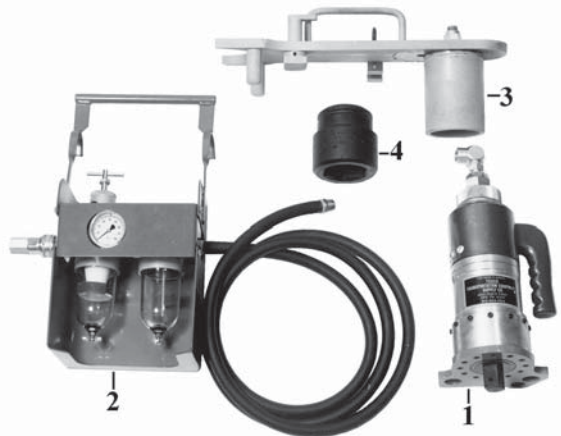
The pressure regulator provides a range of 0-27 PSI water pressure and the fill neck pressure fixture spring rate was adjusted to relieve at 27 PSI.

T50031 Pnuematic Torque Kit for Cylinder Crab Nuts

This kit was developed to ease the job of torquing EMD crab nuts and to provide accurate torque results.

Also available is the T23601 1 1/2" square drive torque verifier which allows auditing performance of the T16051 air motor. The verifier is certified +/- 3% accurate throughout its range which is 0-2,500 lb.ft.

1	T16051	Air Motor +/- 5% Accuracy
2	T50041	Air Control Kit
3	T50051	Reaction Arm
4	T50061	Socket



T50032 EMD Crab Nut Torque Kit for Back Shops

This kit was developed to speed removal and torquing of EMD crab nuts. The torque motor is rated at 3200 lb.ft. and the reaction bracket pick up is slotted to allow 22 1/2° tilt in either direction, which eases placement of the torque motor on the top or bottom crab nut. The torque motor is then positioned by using an overhead crane or jib hoist. To obtain 2400 lb.ft. torque, run the torque motor with **no load** and set the regulator to the pressure indicated on the tag located on the barrel of the torque motor. At this pressure setting, the torque motor will stall at 2400 lb.ft.

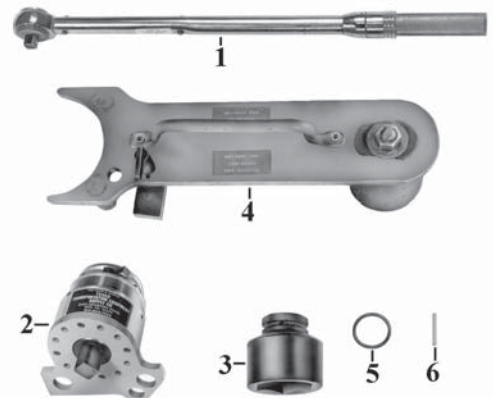
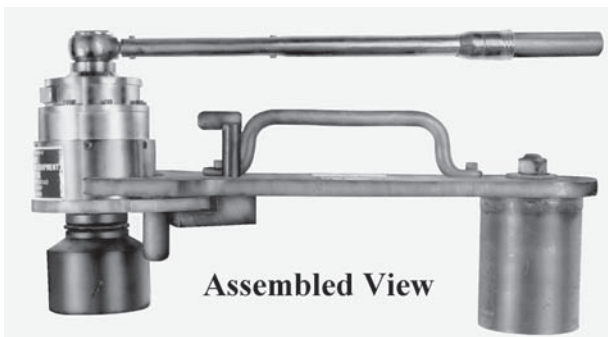
1	T16051	Torque Motor
2	T50032RB	Reaction Bracket
3	T50041	Air Control Kit
4	T50061	Socket



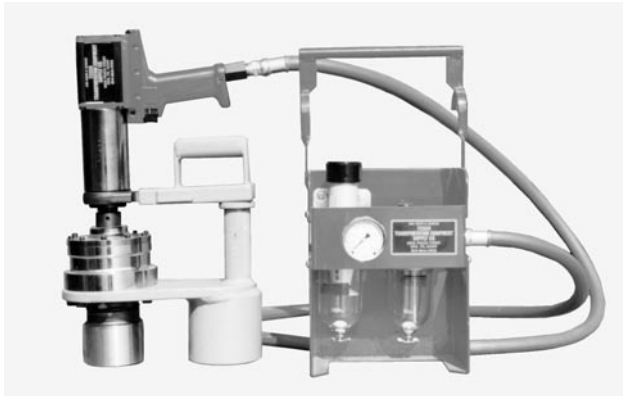
T54101 Manual Cylinder Crab Nut Torque Kit

This kit features a 25:1 torque verifier with a 1 1/2" square drive rated at 2,500 lb.ft. torque. Accuracy is certified to +/- 3%, and the verifier is equipped with an anti-wrap up feature that traps all input motion of the torque wrench.

2,400 lb.ft. crab nut torque is accomplished by inputting 96 lb.ft. of torque with the ratcheting 1/2" drive torque wrench. The reaction arm is placed on the adjacent crab nut to react the torque applied by the verifier.



1	T22520	50-250 lb. Ft. 1/2" drive Torque Wrench
2	T23601	Torque Verifier (1 1/2" sq. drive)
3	T50061	Socket (1 1/2" sq. drive)
4	T50051	EMD Reaction Arm
5	T13030	O-Ring (1 required)
6	T13020	Retaining Pin (1 required)



T59660 Crab Nut Torque Kit

This kit is rated at 3500 lb.ft. for breaking loose Crab Nuts. With approximately 49 PSI regulated air pressure this tool can accurately torque nuts to 2400 lb.ft. To reduce the weight being handled, the torque verifier & reaction bracket are installed on the crab nuts, then the pneumatic torque wrench is installed onto the verifier.

T50970 Heavy Duty Cylinder Head Puller

This puller was designed to pull the most stubborn heads. It incorporates Grade 8 jacking screws, heat treated flange nuts and collars. It has also been structurally improved over pullers commonly used.



T51082 Piston and Rod Holding Tool

This tool is used in the removal and installation of power assemblies. It screws into the top of the piston and allows the piston and rod assembly to be raised and locked at the top of the liner.



T54581 Universal Piston and Rod Retainer for 567, 645 & 710 Engines

This retainer captures the piston and rod assembly during power assembly installation and removal. It bolts where the "P" pipe is mounted, and is guided by the two studs on the bottom of the retainer. These are now manufactured to fit all versions of the EMD engine. There are three holes drilled to accommodate the various locating stud positions and the retainers are set to fit the 645 & 710 engine by default.

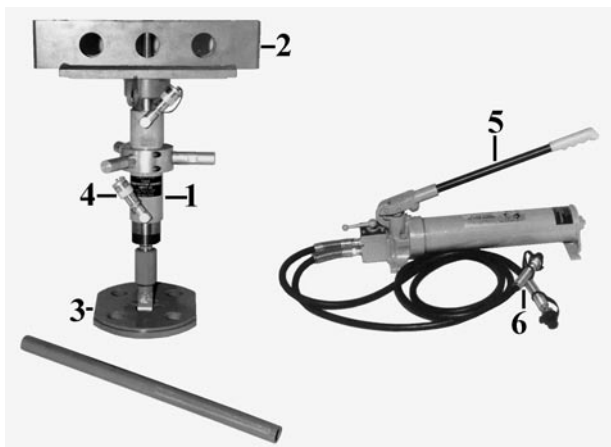


T55910 Barring Over Tool with Remote Control

This tool includes an EMD Starter motor housing and gear that has been modified to accommodate an air operated drive motor. The air motor is reversible allowing barring of the engine in both directions.

NOTE: The starter motor must be removed to allow for use of this tool. Oil motor daily with SAE 10 Oil.

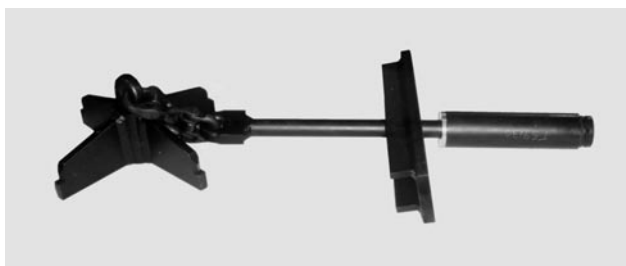
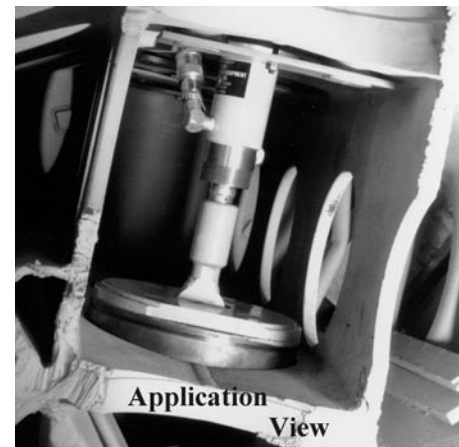
	T55910	EMD Barring Over Tool Complete
1	T22020	Air Drive Motor
2	T22031	Remote Control Complete
3	T55650	Barring Drive Assembly



T54771 Lower Liner Seal Remover and Installer

This tool was developed to remove and install cylinder lower liner seals with a single tool placement. It is accomplished with a dual action ram and wobble plate assembly. The tool is installed in the cylinder bore, by rotating the wobble plate and extending the ram. The wobble plate can be placed under the liner seal. Reversing the ram will pull the liner seal out. A new liner seal is then placed in position for installation and the ram direction reversed. This will accommodate installation. Our T57170 "C" Frame Manipulator can be used with the power assembly attachment to install and remove this puller. This unit now includes an extension to accommodate the deeper bore in a 710 engine. The electric powered version is no longer available.

1	T54770R	Ram
2	T54770TA	Top Assembly
3	T54770WP	Wobble Plate Assembly
4	T54770FC	Female Coupler Ends (2 required)
5	T54770P	Hydraulic Pump
6	T54770HA	Hose assembly with Male Coupler Half (2 req.)



T59130 Lower Liner Seal Puller

This tool provides a quick and easy method of pulling EMD lower liner seals. It does not install new seals. A 3/4" square drive is provided for use with a ratchet or pneumatic wrench.



T54000 Connecting Rod Upper Basket Bolt Wrench

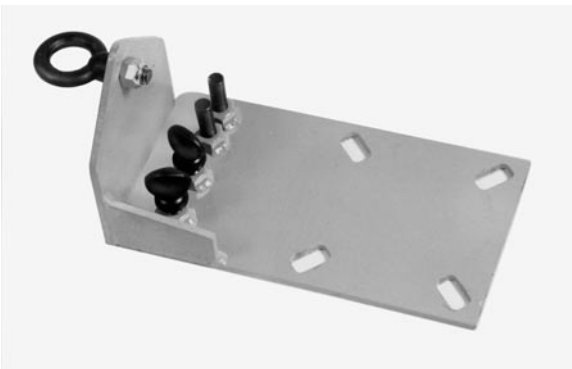


The upper basket bolt wrench features a 3/4" square drive female input and a 7/8" hex socket for torquing and removing connecting rod upper basket bolts. The overall length of the wrench is 32" and is equipped with a spring loaded universal joint to aid alignment on to the bolt head.



T65281 Lower Basket Bolt Wrench

This wrench incorporates a 1/2" square drive extension and a spring loaded socket for torquing and removing Connecting Rod Lower Basket Bolts. Once the socket is installed, it remains secured in place clamped between the reaction socket and spring.



T55591 Water Pump Lifter

This lifter was designed to aid installation and removal of EMD water pumps. Two water pump guide pins and two attachment screws are provided to minimize change-out time. The lifter provides level operation.

T55770S Fork Rod Support

These tools are used to position and hold the Fork Rod out of the way when removing and installing the blade rod power assembly.



T57221 Inertial Filter Lifter

This lifter is used to remove and install inertial filters on EMD locomotives. The pick up point allows for level lifting and a lip supports the bottom of the filter so as to minimize any distortion of the filter during lifting. The top flange of the lifter accommodates three bolts, washers and nuts to minimize stress on the mounting flange of the filter. The lifter comes equipped with the lifting sling shown.



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T55461 EMD 710 Engine Turbocharger Lifter

This lifter includes a dual beam configuration with four proper length chain falls and safety hooks to fit an EMD 710 Engine Turbocharger.



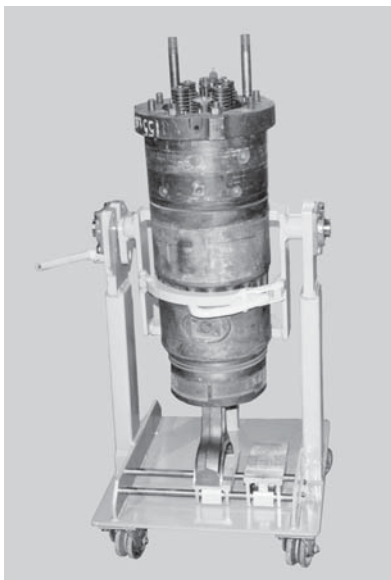
T56022 EMD Engine Turbocharger Lifter

This lifter includes an adjustable pick up member for level pick up of EMD 645 engine turbochargers. It is complete with adjustable turnbuckle and chain fall assemblies for proper attachment to the turbocharger.



T59350 Compression Release Adapter

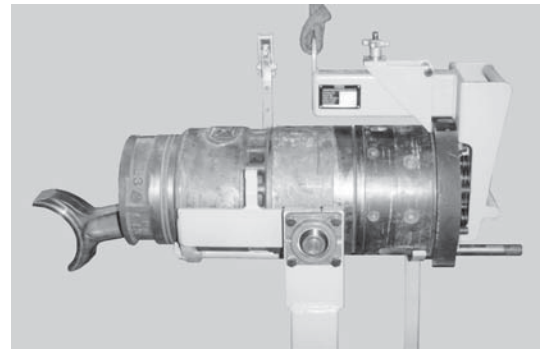
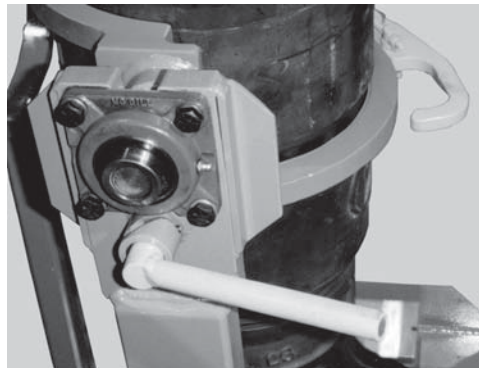
This tool provides a 1/2" square drive and is useful for removing and installing EMD Flash Cock Firing Pins.



T50451

EMD Power Assembly Service Cart

This tool is used in power assembly rebuild shops and can be rotated 360 degrees. Every 90 degrees provides for locking. For additional information contact TESCO.





T55100

Brake Valve Lifter

This lifter used with a hoist allows for safe and easy removal and installation of brake valves. The head of the lifter is equipped with a swivel that allows for easy alignment of the brake valve to its mounting bulkhead.

T55100-DH

Brake Valve Lifter

This brake valve lifter incorporates wheels to allow safe installation and removal of brake valves. The head of the lifter is also equipped with a swivel allowing easy alignment of the brake valve to the bulkhead. Very little force is required to lift and position the brake valve using this lifter.



T57560 Cantilever Lifters for Various Locomotive Component Handing



The **T57560 - 8 foot long** cantilever lifter is rated at 375 lbs. and can be used for lighter locomotive component change outs. It incorporates three pickup points located 30", 33", and 36" from its pickup hook. Typical use is for both GE and EMD water and lube oil pumps. It weighs approximately 37 lbs.

The **T57561 - 11 foot long** cantilever lifter is rated 700 lbs. and is used for heavier locomotive components such as auxiliary generators. It weighs approximately 65 lbs.

T55690

EMD Starter Motor Lifter

This tool takes the back work out of removing and installing EMD starter motors. It is used with a hoist and a person to counter lift the motor while another person installs the mounting bolts in the starter motor flange



T54860 Radiator Cap Tester

This tester is equipped with a 30 PSI glycerine filled gage calibrated to a 1-1/2% full range specification. Shop air is connected to the tester and manifold test pressure is established with a precision regulator mounted on the face of the tester. Three test receptacles are provided to test three tang caps, 2 tang caps and the newer smaller diameter EMD Cap. The test receptacles are manufactured with heat treated alloy steel and are plated to minimize wear and rusting.



T51570I Traction Motor Pinion Nut Wrench

This tool is equipped with a 1" square female drive, and is made from a high grade steel for increased durability and longer life.



T58040 Main Alternator Lifter

This lifter was designed to lift EMD main alternators from car bodies. It is equipped with six grade 8 lifting bolts of the proper length that screw into the alternator lifting pad.

T54980S Traction Motor Lead Braking Wrench

The Traction Motor Lead Braking Wrench Set (1) is manufactured as right and left hand models which when applied to the cable lug, fully grip it and cannot slip off.



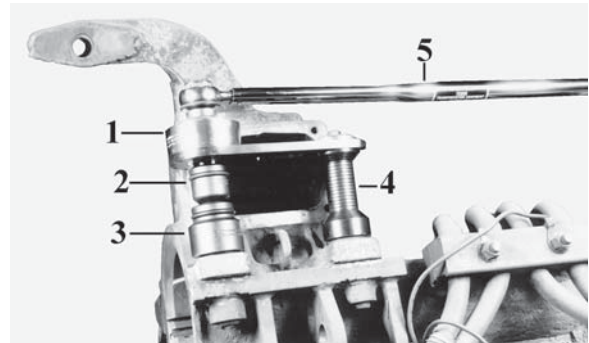
T57120 Brake Slack Adjusting Socket

The Brake Slack Adjusting Socket (2) is equipped with a 1/2" female square input that can be driven with a standard ratchet and has a 3 1/16" output that drives EMD slack adjusters

T50660 Traction Motor Axle Cap Torque Kit

This kit consists of a 5:1 torque verifier, special universal joint, socket and special stand off that eases torquing the eight axle cap bolts. Torque Wrench is not included and must be ordered separately

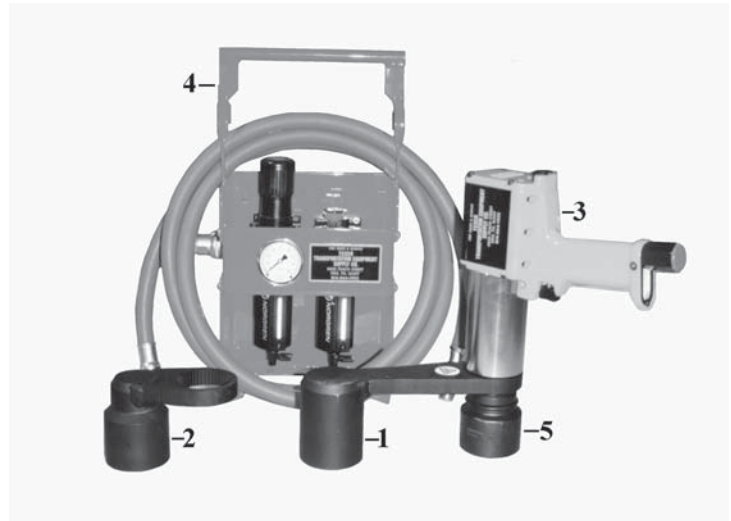
1	T50660-V	Torque Verifier and Reaction Bracket 5:1
2	T50660-UJ	Universal Joint
3	T50660-S	Socket
4	T50660-SO	Standoff
5	T18230	100-600 lb. Ft. Ratcheting Torque Wrench



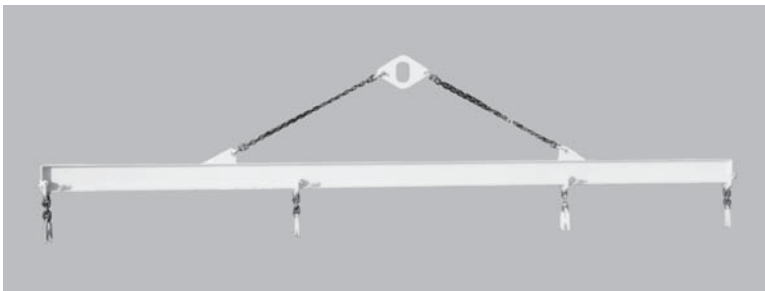
T58890

Traction Motor Axle Cap Torque Kit

1	T58890LA	Long Reaction Arm (7 3/4")
2	T58890SA	Short Reaction Arm (3 1/4")
3	T58890T	Torque Motor
4	T50041	Air Control Kit
5	T58890S	Socket 2" 6 point



T56092 EMD Radiator Bank Lifter



This lifter was developed to pick up various EMD radiator bank lifters on road type locomotives. Four pick up points are provided and they are connected to slide rings on the main tube allowing for proper pick up spacing. Also shown separately is the T57060 lifting cleat.



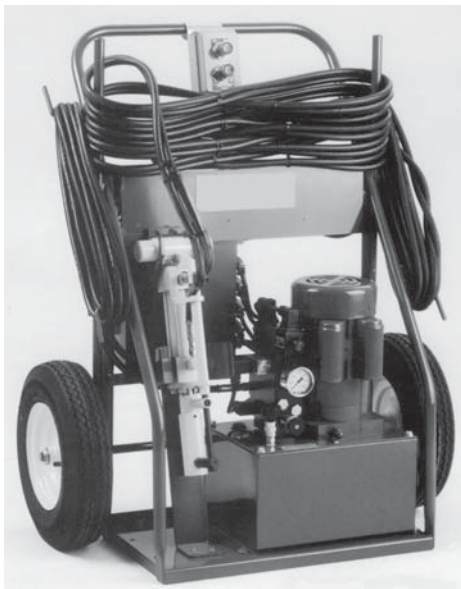
TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T57870 Hydraulic Removal & Torquing Wrench for Cylinder Crab Nuts

This wrench is equipped with a 1 1/8" hydraulic powered electric driven 9,000 PSI power unit, 25 feet hose assembly, wrench head (adjustable from 500 to 3,500 lb.ft. of torque), two wheel cart, and two socket torque fixtures. Controls are complete to allow pre-torque values and final torque values for both 1800 and 2400 lb.ft. applications.

This kit provides a superior, uniform, and safe method of torquing EMD power assembly crab nuts. Complete operating instructions are included.

T57870 - 115V 60HZ
T57870 - 230V 50/60HZ



T57900 Hydraulic Removal & Torquing Wrench for Main Bearing Nuts

This wrench also works on the 710 series engine. It is equipped with a 1 1/8" H.P. electric driven 9,000 PSI power unit, 25 feet hose assembly, wrench head (factory set at 350 lb.ft. and 750 lb.ft.), two wheel cart, and all sockets and appliances to service all current model EMD engines

Complete operating instructions are included.
T57900 - 115V 60HZ
T57900 - 230V 50/60HZ

T57890 Crankshaft Barring Over Tool

This electric driven hydraulic barring over tool is easy to install, while it quickly and safely performs the barring function on EMD engines. The control pendant allows for jog and run operation and the kit is housed on a service cart for ease of movement and storage when not in use.

Complete operating instructions are included.





**T57911 Electronic Torque Analyzer
Pneumatic and Hydraulic Wrenches**

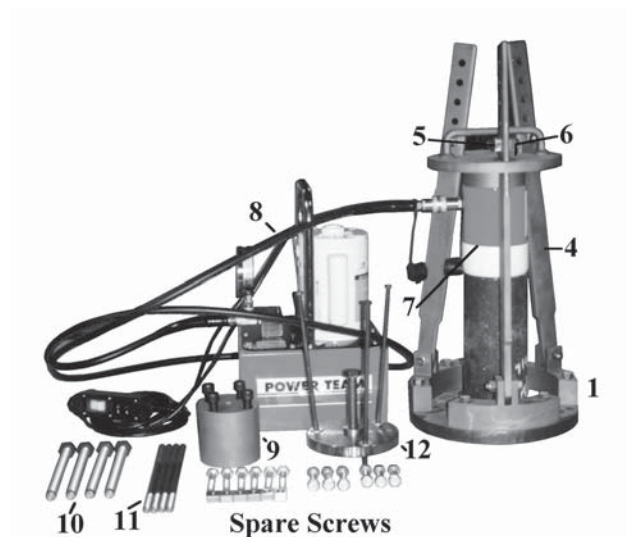
This torque analyzer has a range of 25-4000 lb.ft. with an accuracy of .1%. It can also be used for manual torque wrenches and other torquing devices. Reaction arms to accommodate the T22020 and T16050 Air Motors come with the unit, and special brackets can be fabricated on request. Two knurled fasteners hold the reaction arms in place and allow for sliding to custom positions.

**T59380 AR10 Alternator Bearing Housing Puller
with 115V Electric Pump Shown**

This kit is used when AR10 Alternator Bearings have to be replaced.

**T59380-MP Same Kit with Manual Pump
(Not Shown)**

**T59380-AHP Same Kit with Air Powered Pump
(Not Shown)**



T59380-1	Puller Cleat (3 required)
T59380-2	Puller Cleat to Bearing Housing Screws (6 req.) Should be replaced after each use
T59380-3	Puller Cleat to Arm Screw (3 required)
T59380-4	Puller Arm (3 required)
T59380-5	Anchor Plate Screw Assembly (3 required)
T59380-6	Anchor Plate
T59380-7	Ram
T59380-8	Hose
T59380-9	Spacer with Screws
T59380-10	12" Long 3/4"-10 Screws (4 required)
T59380-11	Guide Pins (4 required)
T59380-12	Puller Plate for Outer Collar with Screws
T59380-13	Center Forcing Screw 6" 3/4"-10 (1 required)
T59380-14	Anchor Bolts 12" 3/8"-16 Bolts (3 required)

T59110 EMD Roots Blower Ratchet Wrench Kit

This kit was designed to accommodate hard to reach nuts and bolts on EMD Roots Blowers. The kit consists of a “walking dog” type wrench with a rocker input, a drive handle and a 3/4” male to 3/4” female socket. The kit comes with a heavy duty storage box. A T16491 Torque Handle can be used on the input spud to torque the bolts. Set torque with a shop torque analyzer.



T62660 EMD Water Pump Lifter

This “hinge type” lifter mounts onto the EMD water pump using the hardware provided. (4 nuts are welded to the surface to store bolts and pins when not in use) This lifter was designed to attach the inlet face of the water pump while in the shipping container. After the lifter is mounted on the water pump the safety latch is placed over the lip to secure the lifter arm. The pick-up eye is also equipped with a swivel hoist ring allowing the lifter to turn freely.





TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T62930

EMD Engine Aftercooler Lifter

This lifter incorporates two custom turned 3/8"-24 heavy duty bolts to lift the engine aftercooler. Three pick up points are available - horizontal, vertical and tilted for intallation/removal (the latter two positions use the shackle provided). The knurled handle is used to ease the lift in position. WLL 375 Lbs.



T63930

EMD Intercooler Lifter

This lifter is used for removal/installation of EMD Intercoolers with the cab on. Three holes are drilled on the mounting face to accommodate mounting bolts and the load is guided using the knurled handle.



EMD 14

T62640

EMD Power Assembly Lifter

This PA lifter is used for type C, D and E engines. Two pick up points are available for both a vertical and 22 1/2 degree lift.



TRANSPORTATION EQUIPMENT SUPPLY COMPANY

T63690

EMD Top Deck Engine Frame Lifter

This lifter is used with the “C” Frame Manipulator to remove/install the top deck engine frames on EMD engines. The frame is constrained by the two loops and secured using 4 nuts. Rated load - 230 Lbs.



T62920

EMD Turbocharger Tub Lifter

The Turbo Tub lifter incorporates two 3/8”-24 bolts to lift the tub. WWL 150 lbs.



T63680

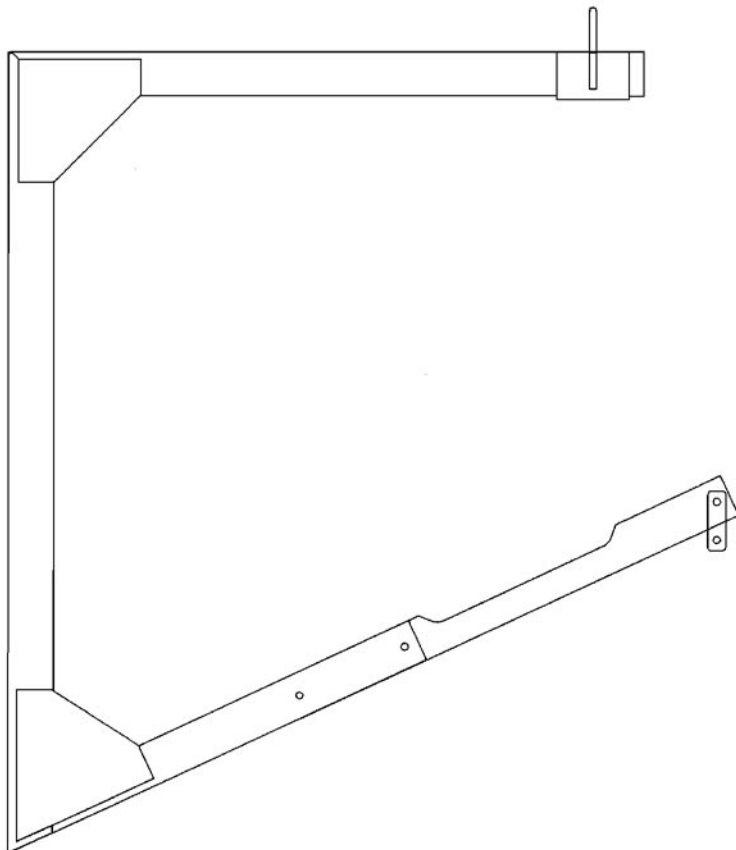
EMD SD70/SD80 MAC Air Compressor Lifter

This lifter is used for the installation/removal of SD70 and SD80 MAC Air Compressors. There are two separate mounting plates and six bolt holes to secure the 1/2” grade 8 bolts into the compressor. The rated load is 2,300 Lbs.



T55450 EMD Exhaust Stack Wrench

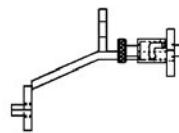
The T55450 Exhaust Stack Wrench is equipped with a 1/2" square drive and a 15/16" 12 point box end. The angle allows the wrench to escape the exhaust manifold interference. A 7/8" 12 point version is available as well - **T55450-7/8**.



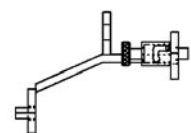
T57330

EMD Turbocharger Screen Lifter

The T57330 Turbocharger Screen Lifter is used for both 710 and 645 Turbo screens. The lifter body is universal and is attached to the proper screen adapter for lifting. The adapters have two locating dowels that fit into the outer ring and a pair of captive locking pins that are depressed for installation and released into the mating holes on the mounting flange. The lifting body's severe angle clears lifting interference during the installation/removal.



T57330-710



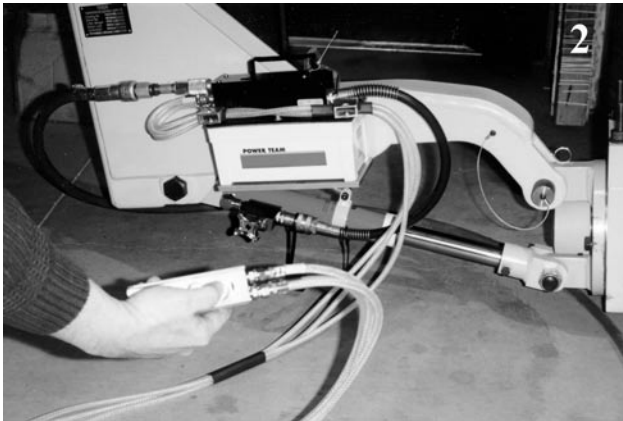
T57330-645

T57170 “C” Frame Manipulator

Designed for safe and easy removal and installation of EMD power assemblies, air compressors, auxiliary generators, inertial filters, as well as several new applications. This photo shows the manipulator complete with hydraulic pump, hose and ram without the specialized attachments necessary for the specific applications. Four pick up points are provided on the top member to aid various applications, and a slip pin with safety clip is provided for ease of moving the clevis from point to point.



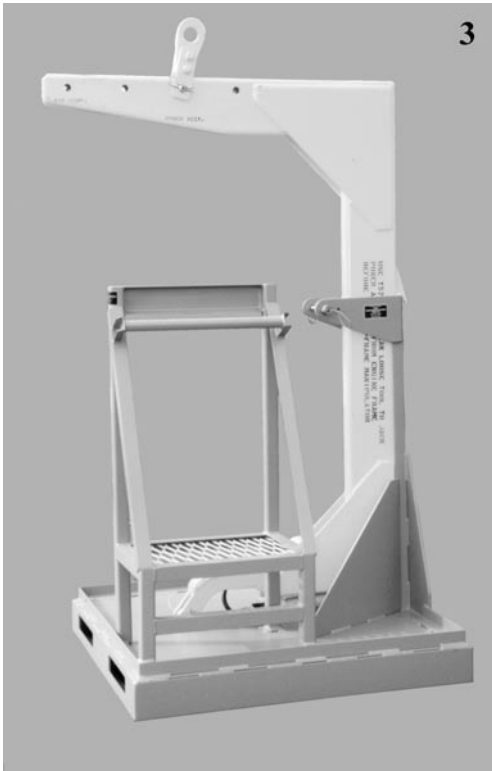
T57170APP “C” Frame Manipulator with Air Powered Remote Control Pump



Same lifter as above except it is equipped with an air powered pump with a hand held remote control. A flow restrictor has also been provided to limit the speed when lowering a load. A very popular version.

“C” Frame Attachments

1	T57170	"C" Frame Manipulator
2	T57170APP	"C" Frame Manipulator with Air Powered Remote Control Pump
3	T57170SC	"C" Frame Manipulator Storage Cart
4	T57211	Power Assembly Jacking Tool
5	T57200	Power Assembly Adapter
6	T58621	Power Assembly Adapter
7	T57182	Air Compressor Removal and Installation Appliance
8	T57371M	Auxiliary Generator Lifter for GP38 Engine
9	T57800	Turbocharger Aftercooler Air Duct Removal and Installation Tool
10	T57600	Lube Oil Cooler Lifter
11	T58942	SD70 MAC Air Compressor Removal and Installation Tool
12	T57360	Inertial Filter Lifter
13	T58610	Roots Blower Lifter
14	T57374	Auxiliary Generator Lifter - Modern EMD Engines except GP38
15	T57181-37	GE Air Compressor Lifter - 37" Long
16	T59991	GE Oil Cooler Lifter - Upright Oil Coolers
17	T63200	GE Equipment Blower Lifter
18	T59860	GE Auxiliary Generator Lifter



3 T57170SC1 Storage Platform for "C" Frame Manipulator

This platform has been improved per suggestion from railway mechanical personnel to include a step and hand hold rail that accommodates repositioning the pick-up clevis on top of the "C" Frame Manipulator. Second, a catch cleat has been added to the "C" Frame that engages the new style rear support of the storage platform. These changes were made to ease mounting the "C" Frame Manipulator into position on the platform. The "C" Frame can be placed on the platform using any of the four pick-up positions.

T57211 Power Assembly Jacking Tool

FOR SAFE OPERATION: This power assembly jacking tool must be used prior to power assembly removal when using the "C" Frame Manipulator. This tool is screwed into the power assembly head using the two 3/4"-10 captive screws provided. The nuts on the top of the frame should be evenly tightened using the special deep well socket provided. This tool is intended to slowly and safely jack the power assembly free of the crankcase prior to assembly removal.

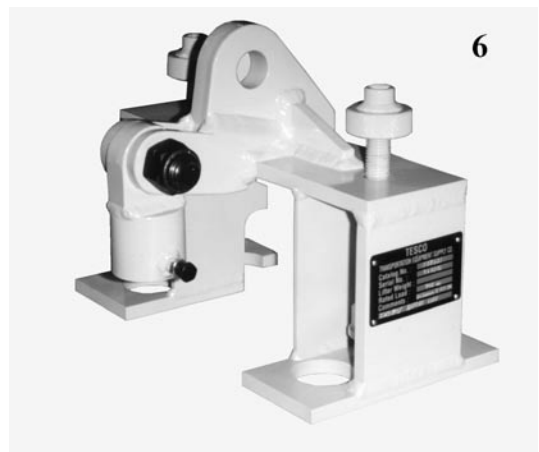


5

T57200 Power Assembly Adapter

EMD Power assembly adapter shown separately and installed on the T57170 "C" Frame Manipulator.

T58621 Power Assembly Adapter



6

This power assembly adapter does not require removing jewelry from the power assembly during removal and installation.



5

"C" Frame 2

T57182 Air Compressor Removal and Installation Appliance

For use with the “C” Frame Manipulator. This appliance adds to the safety and speed of removing and replacing air compressors in the carbody.

NOTE: The pickup point of the “C” Frame for this application is the outboard most hole provided in the top rail as marked.



7

T57181-37 Air Compressor Appliance (GE Engines)

This tool connects with the “C” Frame Manipulator to safely remove air compressors from the car bodies of GE Locomotives. The T57180-37 comes complete with a 37” arm (which connects to the bottom of the “C” Frame), an extension that connects to the outermost top holes, and a chain fall assembly.

NOTE: The short chain length connects to the outer position of the extension. The shackle that is already connected to the “C” Frame must be removed and connected to the inner position of the extension, which can then be connected to the longer length of the chain fall. The lifting cleat (shown beside) is attached to the air compressor and then connected to the “C” Frame.



T58180



T57371M Auxiliary Generator Lifter for GP38 Locomotives

This adapter is complete with backing plate. This allows for sandwiching of the auxiliary generator mounting bracket between the adapter and backing plate for pickup attachment. The adapter comes with three grade 8 mounting screws. Once attached to the auxiliary generator mounting bracket, the adapter is easily connected to the “C” Frame Manipulator. This particular appliance is for the GP38 only.



8

T57800 Turbocharger Aftercooler Duct Removal and Installation Tool

This tool is used with the “C” Frame Manipulator for the installation and removal of EMD Turbocharger Aftercooler Ducts.



9



T57660 Lube Oil Cooler Lifter

This lifter features two snugging screws at the far end to ensure a proper clasp of the oil cooler to be changed. A near end adjustable clamp can be turned over to clamp various oil cooler thicknesses. The lifter also incorporates a swivel mechanism that allows for proper positioning of the oil cooler when removing and installing.



T58942 SD70 MAC Air Compressor Tool

This appliance has two components which allows safe and easy lifting of air compressors for SD70 MAC Engines. The extension connects to the compressor with the two side mounting pins, and is lifted with the arm which is mounted on the "C" Frame Manipulator. **Note:** The lifter was modified with a sliding member and several holes providing a series of pickup points to ensure a level lift. (not shown in picture)



T57360 Inertial Filter Lifter

The T57360 Inertial Filter Lifter connects to the filter in the same way the T57220 lifter does. The bottom lip is placed under the filters face and supports it during the lift, also protecting against distortion. The top flange of the lifter also accommodates three bolts to minimize stress. This lifter also has a "wooden" block attached to a wire cable to act as a spacer so the machinist can keep his fingers away from any positions where they might be pinched.

T58610 EMD Roots Blower Lifter

The T58610 Roots Blower Lifter comes complete with the mounting plate (shown on right) which bolts to the blower, and the "C" Frame arm (below) which connects to the swivel pick up on the mounting plate.



13



"C" Frame 4

T57374 Auxiliary Generator Lifter

This adapter is complete with backing plate. This allows for sandwiching of the auxiliary generator mounting bracket between the adapter and backing plate for pick up attachment. The adapter comes with three grade 8 mounting bolts. Once attached to the auxiliary generator mounting bracket, the adapter is easily connected to the “C” Frame Manipulator. This appliance is for all modern GP’s and SD’s (not including 7’s and 9’s) except for the GP-38 which is serviced with the T57371.



T63200 GE Equipment Blower Lifter

This appliance is used to lift the equipment blowers out of GE locomotive cabs.

The safety pin is installed through the appliance into the blower and locked. The load is leveled with the “C” Frame Ram.



T64790

Forklift “C” Frame Lifter

This tool was designed to accommodate regular “C” Frame attachments onto a forklift fixture. There are “T” Handle brakes that engage the top of the forks and a safety chain that is installed around the mast. The nose section is identical to a “C” Frame Manipulator and the appliances are installed the same way. The T64790 comes complete with pump and ram.



<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
101X910	T101X910	Megger Insulation Tester
147X1030	T10300	Cylinder Liner and Bore Gage
147X1031	T10310	Gage and Micrometer Standard
147X1040-1	T10402	Rocker Arm Depressor
	T10404	Bent Rocker Arm Depressor
147X1045-2	T10452	Valve Guide Remover
	T10471	Valve Seat Grinding Set includes reference items 3,4,6, 7,8,11 & 12 below)
	T10471AD	Air Driver
147X1050	T10500	Dial Indicator (Ref. 3)
147X1051	T10510	Spring 3 3/4" (Ref. 4)
147X1054	T10540	Wheel Holder - 2 req'd (Ref. 6)
147X1055	T10550	Dressing Tool with Pilot (Ref. 7)
147X1057	T10570	Metal Storage Box (Ref. 8)
147X1881	T18810	Grinding Wheel - Rough (Ref. 11a)
147X1882	T18820	Grinding Wheel - Finish (Ref. 11b)
147X1061	T10610	Grinding Wheel 30 deg. (Ref. 11c)
147X1062	T10620	Tapered Pilot 9/16" Std. (Ref. 12a)
147X1063	T10630	Tapered Pilot .001 oversize (Ref. 12b)
147X1064	T10640	Tapered Pilot .002 " (Ref. 12c)
147X1065	T10650	Tapered Pilot .003 " (Ref. 12d)
147X1066	T10660	Tapered Pilot .004 " (Ref. 12e)
147X1067	T10670	Tapered Pilot .005 " (Ref. 12f)
147X1089-1	T10892	Piston Ring Compressor
147X1090	T10900	Piston Support Bar
147X1098	T10980	Piston Ring Groove Scraper
147X2240	T22400	Insert for Scraper
147X1099-2	T10992	Piston Ring Expander
147X1120-3	T11203	Art Rod Pin Bolt Wrench - 12 Point 1 1/16" with 3/4" drive. (Old style bolting hardware)
147X1122	T11220	Art Rod Guide Pin (1 req'd)
147X1132-2	T11322	Cam Shaft Bearing Spanner Wrench
147X1143-1	T11431	Molycote Paste - 17.6 oz. can For application on high torque engine

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
		bolts and studs.
147X1149-3	T11493	Fuel Nozzle Test Stand
147X1444-1	T14441	Speed Connector - Small
147X1445-1	T14441R	Sealing Ring - Small (Pkg. of 6)
147X1491-1	T14911	Speed Connector - Large
147X1641-1	T14911R	Sealing Ring - Large (Pkg. of 6)
147X1642-2	T16422	Fuel Line with Connection Nuts
147X1894	T18940	Stand (Includes Handle & Gauge)
147X2069	T20690	0-5000 PSI Gauge
147X1229	T12290	Magnetic Base Dial Indicator
147X1230	T12300	Timing Tram Bar
147X1231	T12310	Gear Box Gage
147X1232	T12320	Gear Box Mandrel
147X1233	T12330	Gear Box Pressing Fixture
147X1294	T12940	General Purpose Puller Set
147X1285	T12850	Pulley & Gear Puller Set
147X1286	T12860	Bearing Separator
147X1287	T12870	Bearing Separator
147X1288	T12880	Bearing Separator
147X1295	T12950	Box - Metal Storage
147X1284	T12840	Puller Set with Yoke & Adapter
147X1296-1	T12962	Governor Gap Gage .344/1.000 Dimensions
147X1298-1	T12981	Left Hand Manual Main Bearing Wrench
147X1299-1	T12991	Right Hand Manual Main Bearing Wrench
147X1322-1	T13221	Cylinder Hold Down Insert Wrench Equipped with brass pilot & 3/4" sq. female drive. (Supersedes T13220)
	T13222	Insert Wrench equipped with 1/2" square drive
147X1342-1	T13421	Main Bearing Insert Tool
147X1359	T13590	Valve Guide Reamer
147X1364	T13640	Generator Armature/Alternator Rotor to Engine Coupling Bolt Wrench

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X1366-2	T13662	Valve Guide Gage
147X1367	T13670	Cylinder Installation Guide Pin - 2 req'd
147X1368-1	T13683	Compression Tester for GE Cylinders (Usually applied in engine sets of 12 or 16 to read peak compression when cranking engine.)
147X2230-1	T22303	Compression Tester Set (Includes 8 ea. T13683 Compression Testers complete with T22711 Box and T50960 Governor Stop Block.)
ALCO	T50023	Compression Tester for ALCO Cylinders
EMD-9572282	T50213	EMD Compression Tester
EMD-9572281	T50980	EMD Compression Tester Set (Includes 8 ea. T50213 Compression Testers complete with T22711 Box.)
	T50010	ALCO 251 Adapter
	T50160	EMD Adapter
147X2366	T50420	GE Adapter
147X2241-1	T50121	Heavy duty Gage for Compression Testers. Top Stem 1/2" mounting 0-600 PSI. Glycerin Filled.
147X2267-1	T50131	Heavy duty Check Valve
147X2266-1	T50142	Heavy duty Relief Valve
147X2367	T50171	Heavy duty quick disconnect socket- female.
	T50181	Heavy duty quick disconnect plug- male.
147X2368	T50192	Heavy duty filter
	T50330	1/4" Tee - Heavy duty
	T50341	1/4" -2" Nipple - Heavy duty
147X2228-1	T50960	Governor Stop Block

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X2271	T22711	Storage Box
147X1406-2	T14062	Piston Retainer
147X1409	T14090	Valve Grinder - 110 Volt
147X1446	T14460	Valve Grinder - 220 Volt
147X1410	T14100	Grinding Wheel
147X1411	T14110	Diamond Dressing Tool
147X1412	T14120	Chuck Cam
147X1413	T14130	Portable Cabinet for Grinder
147X1414-1	T14141	Master Rod Cap Remover
147X1442	T14420	Valve Guide Driver
147X1443	T14430	Fuel Pump Tappet Guide Driver
147X1458-2	T14582	Art Rod Pin Bolt Wrench - 12 Point 1 1/8" with 3/4" drive (New style hardware)
147X1517-1	T15171	Adapter to be used with above wrench for all Piston Pin Bolts.
147X1474	T14740	Art Rod Pin Retainer
	T14740D	Art Rod Retainer - Double
147X1492-1	T14921	Conn Rod Bearing Retainer (2 req'd)
147X2459	T14930	Fuel Pump Mounting Wrench - Offset
147X1497-3	T14972	Fuel Pump Mounting Wrench - Straight (Old Style)
147X2051	T20510	Replacement Tip
	T14974	Fuel Pump Torque Wrench
147X1499-3	T14994	Piston Pin Bolt Wrench - 15/16"
147X1510	T15100	3/4" drive - 12 Point - 1 1/16" Socket for old style Piston Pin Bolts.
147X1511	T15110	3/4" drive - 12 Point - 15/16" Socket for new style Piston Pin Bolts.
147X1524	T15240	Spanner Wrench for BCO Turbocharger Core Plugs with 3/4" hole spacing.

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X1525	T15250	Spanner Wrench for BCO Turbocharger Core Plugs with 1 1/2" hole spacing.
147X1549	T15490-1	Hand Held Tachometer
147X1568-1	T15681	Pneumatic Torque Controlled Wrench for Cylinder Hold down bolts. Includes Cage for Oiler-Regulator & T16500 5:1 Torque Verifier.
147X1605	T16050	Air Motor for above Kit
147X1924	T19240	Bottom Plate Adapter for Air Motors with Serial Nos. 6299 & below.
147X2383	T23831	Bottom Plate Adapter for Air Motors with Serial Nos. 6300 & up.
	16147	Replacement 1" Square drive for T16050 Air Motor. (Spring Plunger Style for Older Motors).
	16549	Replacement 1" Square drive for T16050 Air Motor. (Through Hole w/Roll Pin for Newer Motors).
147X1597-1	T15971	Reaction Fixture - Heavy Duty, stress relieved & heat treated alloy steel with 2 - T50830 heavy duty Clamps.
147X2019-2	T50830	Hold down Clamp - Only TESCO supplies the heavy duty. Direct replacement for the 147X2019-2. (2 req'd)
147X1598	T15980	1" Square Drive 13" Extension
147X1599	T15990	Universal Joint
147X1600	T16001	2" Socket 1" Square Drive
147X1302	T13020	Lock Pin (2 req'd)
147X1303	T13030	"O" Ring (2 req'd)
147X2274	T50041	Air Control Kit with Oiler-Regulator-Filter-Gage Assy. plus 10' 1/2" I.D. 2 ply rayon hose & heavy duty T50150 Protective Cage.

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X2257	T50150	Protective Cage for Air Control Kit. Only TESCO provides the heavy duty design.
147X2199	T21990	Filter-Regulator-Oiler Assy.
	T16031	Air Gage 0-16- PSI - Heavy duty.
147X1604	T16040	1/2" - 10' Hose
	T50690	Swivel Connector for Supply Hose on T16050 Air Motor.
147X1650	T16500	5:1 manual Torque Verifier to be used with Pneutorque to audit Cylinder hold down Bolts and Main Bearing Cap Stud Nuts.
147X1579	T15790	Main Bearing Torque Kit
147X1654	T16540	Main Bearing Torque Fixture
147X1647	T16470	1" drive 7" long Extension
147X1648	T16480	1" drive 2 9/16" Socket
	T15803	Governor Tail Rod Jack with emergency trip feature.
147X2429	T15804	Governor Tail Rod Jack for engine with Lay Shaft.
147X1592-5	T15927	High Pressure Fuel Line Torque Kit
147X1593	T15930	Ratchet Adapter - 1/2" Drive
147X1594-1	T15941	Adapter - 7/8" (For Bendix small pump)
147X1649-1	T16491	Torque Handle 30-150 Lb.Ft. Heavy duty.
147X2025	T20250	Deep Socket 1/2" drive 3/4"
147X2057-1	T20571	Metal Box
147X2312	T23120	1" Open End Adapter
147X2417	T24170	1 5/16" Socket
147X2457	T54441	1/2" 12 PT Adapter for Fuel Pump Bolts under Rack.
	T14974	Fuel Pump Mounting Wrench for new style pump mounting hardware.(2)
	147X2461	T50001 Fuel Line Wrench
	T15926	High Pressure Fuel Line Torque Kit for EFI Engines
	T16491	Torque Handle 30-150 Lb.Ft.

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T15930	Ratchet Adapter - 1/2" Drive
	T20250	Deep Socket 1/2" drive 3/4"
	T24170	1-5/16" Socket
	T50001	Fuel Line Wrench
	T20571	Metal Box
	T54441	Cam Shaft Torque Adapter
	T14974	Fuel Pump Torque Wrench
	T57140	1-1/2" Torque Adapter
147X1606-1	T16065	Cylinder Lifter
147X1379-1	T13791	Bolt for above Lifter (2 req'd)
147X1640	T16400	Fel-Pro Copper Compound(16oz. can)
147X1638	T16380	Scotch 1/2" Thread Sealant & Lubricant (1 roll = 520")
147X1646-1	T16461	Cylinder Liner Lifter
147X1651	T16510	Master Rod Service Fixture
147X1652	T16520	Fixture
147X1653	T16530	Jaws (2 req'd)
147X1392	T13920	Pedestal
147X1655-1	T16551	Master Rod Lifter
147X1671-1	T16710	Cylinder Liner Puller with hydraulic ram.
147X1020	T10200	Hose with Speed Coupler
	T16711	115 Volt Cylinder Liner Puller complete with Pump & Hose.
	T16712	220 Volt Cylinder Liner Puller complete with Pump & Hose.
147X1673	T16730	Cylinder Head Alignment Tool
147X1677	T16770	Crankshaft Barring Tool
147X1679-1	T16792	Valve Checking Fixture
147X2219	T22190	Head Gage - 15 deg.
147X2221	T22210	Head Gage - 45 deg.
	T50450	.5515 Master Mandrel
147X1684-2	T16842	Impact Wrench Set
147X1681-1	T16811	#5 Spline Impact Wrench

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X1682	T16820	2" #5 Spline Tapered Socket
147X1683	T16830	15" #5 Spline Extension
147X1604	T16040	Hose
147X2195	T21950	Oiler
	T16843	Impact Wrench Set - Contains Wrench, Socket & Extension from above plus a T50041 Air Control Kit.
147X1691	T16910	Crosshead Guide Puller
147X1692	T16920	Crosshead Guide Puller
147X1694	T16940	Impact Wrench Set
147X1695	T16950	Impact Wrench - 1/2" Drive
147X1729	T17290	Impact Wrench - 3/4" Drive
147X1732	T17320	Fuel Pump Holding Fixture
147X2011-1	T20111	Clamp
147X1738	T17380	Cylinder High Pressure Tester Complete (5000 PSI Tester) Backshop - Individual parts also available. 115 Volt
147X1748	T17480	Same as above except 230 Volt
147X1432	T14320	Hydraulic Pump 115 Volt
147X1433	T14330	Hydraulic Pump 230 Volt
147X1749	T17490	Test Stand
147X1750	T17500	Test Fixture
147X1758	T17580	Gage Assembly
147X1759	T17590	Plug Adapter
147X1766	T17660	Piston "O" Ring
147X1770	T17700	Gage 0-10,000 PSI
147X1935	T19350	4 Test Valves (45 deg.)
147X1936	T19360	4 Test Valves (15 deg.)
147X2173	T21730	"O" Ring for Test Valves
147X1742	T17420	Hydraulic Frame Spreader Kit
147X1783	T17830	Pump
147X1784	T17840	Hose
147X2280	T22800	Spreader
147X2281	T22810	Cylinder
147X2282	T22820	Extension
147X2283	T22830	Cap
147X2284	T22840	Coupling

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X1780	T17801	Assorted Box Wrench Torque Kit - 9 Box Wrench adapters from 1/2" to 1" in 1/16" increments plus a 30-150 Lb.Ft. Torque Wrench Handle & a 1/2" Ratchet Adapter.
	T16491	Torque Handle 30-150 Lb.Ft.
147X1771	T17710	Box Wrench Adapter 1/2"
147X1772	T17720	" " " 9/16"
147X1773	T17730	" " " 5/8"
147X1774	T17740	" " " 11/16"
147X1775	T17750	" " " 3/4"
147X1776	T17760	" " " 13/16"
147X1777	T17770	" " " 7/8"
147X1778	T17780	" " " 15/16"
147X1779	T17790	" " " 1"
147X1593	T15930	1/2" drive Ratchet Adapter
147X1822	T18220	3/8" drive Ratcheting Torque Wrench 4-75Lb.Ft
147X1823	T18230	3/4" drive Ratcheting Torque Wrench 100-600 Lb.Ft.
147X2466	T18231	Conn Rod Cap Removing Wrench
147X1825	T18250	1" drive Torque Wrench 0-1000 Lb.Ft.
147X1826	T18260	Protective Pad - Main Bearing Journal
147X1827	T18270	Protective Pad - Rod Journal
147X1828	T18280	Protective Pad - Rod Shank
147X1830	T18300	Cyl. Hold Down/Main Frame Drill Kit - 115V
147X1840	T18400	Cyl. Hold Down/Main Frame Drill Kit - 230V
147X1322-1	T13221	Insert Wrench
147X1829	T18290	Stand & Drill - 115 Volt
147X1831	T18310	Counterbore 1 11/16"
147X1832	T18320	Drill 1 35/64"
147X1833	T18330	Tap 1 5/8" - 12
147X1834	T18340	Tap Holder
147X1835	T18350	Extension
147X1836	T18360	Guide Plate with hardened liners
147X1837	T18370	Bushing 2 1/16"
147X1838	T18380	Tap 2 1/8" -16
147X1839	T18390	Drill 2 1/16"
147X1842	T18420	Cylinder Bolt Bushing 1 1/4" (2 req'd)
147X1843	T18430	Bushing 1 35/64"
147X1844	T18440	Hold Down Bolt (2 req'd)
147X1845	T18450	Repair Plug 2 1/8" - 16 O.D.

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X1846	T18460	1 5/8" - 12 I.D. Stand & Drill 230 Volt
147X1841-1	T18412	Piston Pin Bolt Torquing Kit
147X1841	T18410	Piston Pin Bolt Wrench
147X1850	T18500	Glass Bead Blast Cleaner 110 Volt - 60 HZ
	T18501	Blast Cleaner complete with Parts Tumbler
147X1847	T18470	Air Hose
147X1848	T18480	Abrasive Hose
147X1849	T18490	Abrasive Gun - 1/2" tungsten nozzle
147X1851	T18510	Viewing Window
147X1852	T18520	Rubber Gloves
147X1853	T18530	Rubber Gauntlets
147X1854	T18540	Dust Bags 11/39
147X1855	T18550	Glass Beads 50# Bag
	T18551	Alum. Oxide 100# Bag - 80 Grit
147X1856	T18560	Nozzle Knocker
147X1858	T18580	Replacement Large Tip
147X1859-2	T18593	Piston & Rod Assy. Lifter - Heavy Duty
147X1870-2	T18703	Cylinder Jacket Lifter - Backshop
147X1868-1	T18681	Lifting Pins - Short (Lifts from Rocker Arm Shaft Holes) 2 req'd.
147X1869-1	T18691	Lifting Pins - Long (Lifts from Hold Down Bolt holes) 2 req'd.
147X2231-1	T22311	Shackle
147X2232-1	T22321	Clevis
147X2233-1	T22331	Lock Pin
147X2265-1	T22651	Cable Assy. including hooks
147X1879	T18790	Release Plug Adapter Drive
147X1896	T18961	Torque Wrench Tester - Bench Mounted 0-1000 Lb.Ft.
147X1897	T18970	Torque Wrench Tester - Bench Mounted 0-2000 Lb.Ft.
147X1898-1	T18981	Loctite 609 Retaining Compound - 50 ml
147X1914-1	T19141	Crankshaft Front Drive Puller Set

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X1289	T12890	Ram & Pump Set
147X1895	T18950	Retaining Plate
147X1546	T15460	Stud (3 req'd)
147X1496	T14960	Auxiliary drive hub plate complete with puller screws.
147X2147	T21470	Front Hub Puller Plate
147X1916-2	T19162	Turbocharger Lifter
	T19162TA	Turnbuckle Assembly
	T19163	Turbocharger Lifter (used on turbocharges when not removing Adapter plates)
147X1917	T19170	Overspeed Link Assy./Disassy. Fixture
147X1919	T19190	Snap Ring Pliers for above Fixture
147X1925	T19250	115V Hydraulic Main Bearing Wrench
147X1927-2	T19272	Machinist's Hand Tool Set
147X1928	T19280	Cylinder Servicing Fixture Assy.
147X1929	T19290	Cylinder Service Fixture
147X1932-1	T19321	Cylinder Lifter
147X2306-1	T23061	Lifter Pad - Intake
147X2307-1	T23071	Lifter Pad - Exhaust
147X1945	T19450	Multiple Valve Spring Compressor
147X1959	T19590	Hydraulic assist Ram & Pump Set
147X1951	T19510	Piston Protector
147X1961	T19610	Air Operated Barraging-over Tool for GE engines equipped with the notched hub at the free end of the engine. Complete rebuild service available. Request the T19610 Parts List outlining all parts.
147X1997	T19970	Gear Box complete - Recently re- designed to add strength to housing.
147X1998	T19980	Ratchet Head
147X1999	T19990	Ratchet Arm
147X2010	T20100	Cylinder Control Assembly
147X2001	T20010	Air Cylinder complete
147X2002	T20020	Cylinder Anchor Pin
147X2003	T20030	Ratchet to Arm Pin
147X2004	T20040	Arm to Cylinder Pin
147X2005	T20050	Gear Box to Engine Pin

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X2007	T20070	Main Air Supply Hose Assy.
147X2169	T21690	Air Supply Valve
147X2008	T20080	Remote Control Hose Assy.
147X2168	T21680	Hand Valve
147X2171	T21710	Quick Disconnect
147X2172	T21720	Remote Control Hose
147X2009-1	T20091	Gasket Kit for Parker Air Cylinder & Control Assemblies.
147X2149	T21490	Gear Box Cam
147X2151	T21510	Ratchet Gear
147X2154	T21540	Driven Gear
147X2155	T21550	Adjusting Screw
147X2166	T21660	Plate complete with screws
147X2159	T21590	Housing
147X2160	T21600	Housing Cover
		Includes all mounting hardware and T21660 Plate with 10 mounting screws. (T21590 & T21600 must be ordered as married pair)
147X1970	T19700	Injector Holder
147X1982	T19820	Manual Barring-over Tool
147X1991	T19910	Release Plug Adapter Driver
147X1992-1	T19923	Assembly Lifter - Front Mount
147X2471	T19922	Above lifter complete with "A" Frame
	T19922C	Clevis
	T13800	Bolt (4 req'd)
	T54410	Pump & Ram
	T54420	Anchor Pin
147X1995-1	T19951	Crankcase Pressure Switch Tester
	T19951HP	Hand Pump Only
147X2016	T20160	Overspeed Link Tester & Engine starting aid.
147X2024-1	T20241	Cylinder Head Lifter
147X2029	T20290	Fuel Rack Gage 16 3/4 mm
147X2030	T20300	Fuel Rack Gage 17 1/2 mm
147X2031	T20310	Fuel Rack Gage 18 mm
147X2032	T20320	Fuel Rack Gage 18 1/2 mm
147X2033	T20330	Fuel Rack Gage 18 3/4 mm
147X2034	T20340	Fuel Rack Gage 19 mm
147X2035	T20350	Fuel Rack Gage 19 1/4 mm
147X2036	T20360	Fuel Rack Gage 19 1/2 mm

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X2037	T20370	Fuel Rack Gage 19 3/4 mm
147X2038	T20380	Fuel Rack Gage 20 mm
147X2039	T20390	Fuel Rack Gage 20 1/2 mm
147X2040	T20400	Fuel Rack Gage 20 3/4 mm
147X2041	T20410	Fuel Rack Gage 21 mm
147X2042	T20420	Fuel Rack Gage 21 1/2 mm
147X2043	T20430	Fuel Rack Gage 21 3/4 mm
147X2044	T20440	Fuel Rack Gage 22 mm
147X2045	T20450	Fuel Rack Gage 22 1/4 mm
147X2046	T20460	Fuel Rack Gage 22 1/2 mm
147X2411	T24110	Fuel Rack Gage 22 3/4 mm
147X2047	T20470	Fuel Rack Gage 23 mm
147X2412	T24120	Fuel Rack Gage 23 1/4 mm
147X2048	T20480	Fuel Rack Gage 23 1/2 mm
147X2122	T21220	Fuel Rack Gage 23 3/4 mm
147X2413	T24130	Fuel Rack Gage 24 mm
147X2049	T20490	Fuel Rack Gage 24 1/4 mm
147X2414	T24140	Fuel Rack Gage 24 1/2 mm
147X2415	T24150	Fuel Rack Gage 24 3/4 mm
147X2050	T20500	Fuel Rack Gage 25 mm
147X2070-2	T20702	Universal Rack Setting Gage that permits setting Fuel Rack from 14 to 28 mm. A master of 21 mm is also provided to assure calibration of the gage.
147X2071	T20710	Ratcheting Torque Wrench - 3/8" Drive 30-200 In.Lbs.
147X2075	T20750	Compressor Wheel Puller - All domestic GE built turbochargers.
147X2106	T21060	230V Hydraulic Main Bearing Wrench
147X2148-1	T21481	Single Valve Spring Compressor
147X2150	T21500	Air Valve Adapter
147X2163	T21630	Lubriplate Petroleum Lubricating Grease
147X2195	T21950	Oiler
147X2200	T22000	Socket - 1" Drive- 2 3/4"-6 PT
147X2204	T22040	Pneumatic Barring-over Tool for GE engines equipped with barring feature in Governor Gear Box. Includes remote control feature.
147X2202	T22020	Pneumatic Motor with Reaction Plate

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X2203	T22031	Remote Control Kit
	T22030HH	Hose & Hand Valve - New style
147X2168	T21680	Hand Valve
147X2253	T22530	Reaction Plate
147X2206-2	T22062	Preturbine Temperature Measuring Kit
147X2207	T22070	Digital Instrument
147X2208	T22080	Connector - Male/Female
147X2209	T22090	Connector - Male
	T50260	Adapter
147X2210	T22100	Thermocouple Probe
147X2211	T22110	100' Thermocouple Extension
147X2255-1	T22551	Turbocharger Servicing Fixture - Motorized 115V 1 phase 50/60 HZ
	T22552	Turbocharger Servicing Fixture - Motorized 230V 1 phase 50/60 HZ
147X2278	T22780	GE Fuel Rack Checking Tool - 1/2" Sq. Drive
147X2309-3	T23094	Stretch Gage
147X2322-1	T23221	Piston Retainer
147X2334	T23340	Cleaning Machine - 230V 3 Ph 60 HZ
147X2327	T23270	Wand - Straight
147X2328	T23280	Wand - 90 deg.
147X2352	T23520	Turbocharger Mounting Bolt Torque Kit
147X2252	T22520	1/2" Torque Wrench - Ratcheting 30-250 Lb.Ft.
147X2350	T23500	Turbocharger Mounting Bolt Adapter Supersedes 147X1637.
147X2467	T23501	Turbo Mounting Bolt Removal Wrench
147X2360	T23600	Torque Verifier - 25:1 with anti-wrap feature.
	T23601	Torque Verifier - 25:1 with anti-wrap feature - 1 1/2" Sq. drive.
147X2361	T23610	25:1 Multiplier complete with Reaction Fixture, Extension, Universal, Socket & 30-250 Lb.Ft. Torque Wrench for re- moving and installing Cylinder Hold down Bolts on GE Engines.

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
147X2383	T23831	Reaction Plate for new style bearing on T16050 Air Motor S/N 6300 and up.
147X2398	T23980	Cart for Pneumatic Torque Wrench tools for GE Cylinder hold down bolt torquing.
147X2400	T24000	Pneumatic Torque Wrench Kit complete with Cart. For removing & installing Cylinder hold down bolts on GE engines. This Kit does <u>not</u> contain Torque Verifier.
147X2410	T24101	Pneumatic Torque Wrench Kit complete with 25:1 Torque Verifier and Cart. For removing & installing Cylinder hold down bolts on GE engines.
147X2430-2	T24302	Tool Cart complete with Running Maintenance Tools
	T24303	Tool Cart complete for EFI Engines.
147X2469	T24690	Conn Rod Checking Fixture - Complete
	T24690F	Fixture
	T24690CM	Crank Mandrel
	T24690PM	Piston Pin Mandrel
	T24690AM	Art Rod Mandrel
	T24690MSM	Master Rod (Min. Length)Setting Mandrel
	T24690ASM	Art Rod (MIn. Length)Setting Mandrel
	T24690RDI	Right Hand Dial Indicator Assy.
	T24690LDI	Left Hand Dial Indicator Assy.
147X2489	T24890	Loctite Threadlocker - 50 ml
2X1957	T2X1957	Megger Insulation Tester - 115 VAC
	T2X1957-1	Megger Insulation Tester - 230 VAC
2X2437	T2X2437	Blower Coupling Wrench
2X2500	T2X2500	Thermostat Checking Fixture
2X2823	T2X2823	Diode Wrench
2X3430	T2X3430	Digital Pyrometer Kit
2X3427	T2X3427	Digital Pyrometer
2X3428	T2X3428	Flexible Extension Arm

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
2X3429	T2X3429	Thermocouple - Flat Surfaces
2X3431	T2X3431	Thermocouple - Metallic Surfaces
2X3432	T2X3432	Thermocouple - Air
2X3442	T2X3442	Thermocouple - Optional
2X3443	T2X3443	Thermocouple - Optional
2X3444	T2X3444	Thermocouple - Optional
2X4133	T2X4133	Power Cable Crimpers - 40 Ton
2X4945	T2X4945	Power Cable Crimpers - 15 Ton
2X4134	T2X4134	Hydraulic Pump - 115V 50/60 HZ
2X4135	T2X4135	Coupler - Quick Disconnect - male
2X4136	T2X4136	Coupler - Quick Disconnect - female
2X6007	T2X6007	Coupler Adapter
2X4935	T2X4935	Hydraulic Pump - Manual
2X5083	T2X5083	Hand Control
2X5084	T2X5084	Adapter (required for each 2X4945 type die)
1X5309	T1X5309	Hydraulic Hose
1X8087	T1X8087	Crimping Die
2X4142	T2X4142	Crimping Die
2X4143	T2X4143	Crimping Die
2X4144	T2X4144	Crimping Die
2X4145	T2X4145	Crimping Die
2X4146	T2X4146	Crimping Die
2X4946	T2X4946	Crimping Die
2X4947	T2X4947	Crimping Die
2X4948	T2X4948	Crimping Die
2X4949	T2X4949	Crimping Die
2X4950	T2X4950	Crimping Die
2X4951	T2X4951	Crimping Die
2X4952	T2X4952	Crimping Die
2X4955	T2X4955	Crimping Die
2X5079	T2X5079	Crimping Die
2X5080	T2X5080	Crimping Die
2X5082	T2X5082	Crimping Die
147X2461	T50001	High Pressure Fuel Line Removing/ Torquing Wrench
EMD	T50031	Air Powered Torque Controlled Wrench Kit for EMD Crab Nuts. Includes Cage for Oiler/Regulator. 2500 Lb.Ft. Capacity at 65 PSI.
	T16051	Torque Controlled Air Motor 1 1/2" Square Drive
	T50041	Air Control Kit with Oiler-Regulator- Filter-Gage Assy. plus 10' - 1/2" I.D. heavy duty Hose & T50150 Cage.

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T50051	Reaction Arm
	T50061	2 3/4" Socket 1 1/2" Sq. Drive
GE	T50070	Air Powered Torque Wrench Kit to remove the most stubborn GE Cylinder hold down bolts. Similar to the Pneutorque Wrench commonly used except 1 1/2" Sq. drive with maximum torque rating of 4500 Lb.Ft. Includes Cage for Oiler-Regulator. Can also be adapted for EMD Crab Nuts.
	T16052	Torque Controlled Air Motor
	T50041	Air Control Kit with Oiler-Regulator-Filter-Gage Assy. plus 10' 1/2" I.D. heavy duty Hose & T50150 Cage.
	T50081	Extension
	T50090	Universal Joint
	T50101	Socket 2" - 1 1/2" Sq. Drive
	T15971	Reaction Fixture with new style Clamps. Stress relieved, alloy steel, heat treated.
	T50540	Hanger & Balancing Attachment
GE	T50071	Same as above except T16051 Air Motor is rated at 3200 Ft.Lb. Kit does not contain Hanger & Balancing Attachment.
41B530409G1	T50230	Fan Nut Remover
	T50250	Manual Barring-over Tool for GE engines equipped with the notched hub at free end of engine.
147X1939-1	T50301	GE Tool Cart - Features 2 fixed and 2 swivel ball bearing wheels, foot brake fork lift pick-up on 3 sides, mounting accommodations for smaller TESCO tools to change out Power Assys. & Turbochargers, air manifold to run 3 power tools and sufficient storage space to house all larger tools such as the T15681 Power Wrench & T19610 Barring-over Tool.
147X2465	T50370	Turbocharger Transition Section to Exhaust Inlet Casing Wrench
3X5052	T50380	WABCO 3 cylinder Air Compressor Exhaust Cage Remover
131X1045-2	T50390	Insert

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
41D792655G1	T50490	752 Motor Shaft & Pinion Taper Gage Set
41D792655P1	T50490GS	Ring Gage for Shaft
41D792655P2	T50490GP	Plug Gage for Pinion
EMD	T50510	EMD Flash Cock Remover - 1/2" Sq. Drive
8843947G1	T50850	752 Traction Motor Pinion Puller Set
186V596P1	T50720	Tubing
8843947P3	T50730	Tubing Sleeve (2 req'd)
	T50740	High Pressure Pump to Tubing Adapter
8843947P1	T50860	Hydraulic Pump (40,000 PSI)
8843948P4	T50870	Gland Nut
8864170P1	T50880	Adapter - Tube to Motor Shaft
	T50890	752 Armature Backing Plate (Threaded Shaft)
41A238708P1	T50900	752 Armature Backing Plate
41B535119G1	T50910	752 Armature Backing Plate (Single Hole) (Backing plates not included in set)
	T50920	Tubing Assembly
	T50933	Radiator Fan Lifter - for Dash 8 Engines
EMD	T50970	Heavy duty Cylinder Head Puller for EMD Engines.
EMD	T50980	Compression Tester Set (includes 8 ea. T50213 EMD Compression Tester complete with wooden box.)
EMD	T51082	EMD Piston & Rod Holding Tool
	T51432	GE Exhaust Manifold flange to cylinder bolt adapter. (5/8" double hex) Use with T16491.
	T51441	GE Exhaust Manifold flange to cylinder bolt adapter. (15/16" double hex) Use with T16491.
41D790941G1	T51560	Pinion Advance Gage
EMD-8127529	T51570I	Traction Motor Pinion Nut Wrench
9945228G1	T51630	Spanner Wrench for removing Commutator End Retaining Nut - 752 Motors
9945228P4	T51630P	Pin (2 req'd)
9945228P5	T51630S	Screw (2 req'd)

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
EMD	T51740	EMD Cooling System Test Kit
41A313022G1	T51750 T51760	GE Cooling System Test Kit Water Regulator Kit
	T16040	Hose
	T50150	Cage
	T51790	Water Regulator with Mounting Bracket
	T51800	Inlet Valve
	T51800	Dump Valve
	T51810	Dump Hose
	T51820	1/2" Pipe Cross
	T51830	Pressure Gauge 0-60 PSI
	T51840	1/2" Nipple
EMD	T51770	Fill Neck Pressure Fixture - EMD
	T51850	Tang
	T51860	Gasket
	T51870	Screw
EMD	T51770-60	Fill Neck Pressure Fixture - EMD
GE	T51780	Fill Neck Pressure Fixture - GE
	T51850	Tang
	T51860	Gasket
	T51870	Screw
EMD	T51890	EMD Valve Checking Fixture
147X2397	T52051	Cam Shaft Fuel Roller Lifter
147X2362	T52060	Cylinder Inlet & Exhaust Valve Feeler Gage
147X2364	T52060-.020	.020 Tip
147X2363	T52060-.030	.030 Tip
41A304638P1	T52080	0-100 PSI heavy duty Cab Gauge with Snubber (Fuel Oil pressure readings)
41A304641P1	T52081	0-200 PSI heavy duty Cab Gauge (Lube Oil pressure readings)
	T52082	0-60 PSI heavy duty Cab Gauge (Turbocharger pressure readings)
147X2488	T52090	Hydraulic Camshaft Remover Kit
	T17830	Pump
	T52230	Hose

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T52240	Adapter Assembly
	T52250	Ram
	T52260	Brass Spacers (4 req'd)
	T52210	Torque Verifier 5:1 - 1250 Lb.Ft. output
	T52210K	Axle Cap Torque Kit
	T53000	Barrel Rack with Drip Pan - 3 Drum
	T53001	Barrel Rack with Drip Pan - 2 Drum
EMD	T54000	EMD Connecting Rod Upper Basket Bolt Wrench
EMD	T54101	Cylinder Crab Nut Torque Kit for EMD engines. 25:1 Torque Verifier (T23601) with 1 1/2" Sq. drive included.
	T23601	25:1 Torque Verifier with 1 1/2" square drive.
	T54120	GE Dynamic Brake Grid Wrench with one 15/16" double hex box end & one 15/16" double hex ratcheting box end.
147X2464	T54210	Test Gage Kit
	T54210-60	0-60 PSI Gauge Complete w/Socket
	T54210-100	0-100 PSI Gauge Complete w/Socket
	T54210-200	0-200 PSI Gauge Complete w/Socket
147X2456	T54330	Master Rod Cap Lifter
147X2457	T54441	Torque Adapter for High Pressure Fuel Pump Mounting Bolts
EMD	T54451	High Pressure Hydraulic Adapter - 3/4"-16 female inlet & 3/8"-24 male outlet.
EMD-8174880	T54500	Megger for EMD
	T54540	Traction Motor Pinion Removing Wedge
147X2441-1	T54552	112 1/2 deg. Cylinder Lifter
	T54552C	Short Cylinder Lifter
EMD	T54581	Piston & Rod Retainer F/645, 710, & 567 Engine, spec. when ordering
EMD	T54650	EMD High Pressure Hydraulic Adapter - 9/16"-18

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
		female inlet & 1/2"-20 male outlet.
EMD	T54651	EMD High Pressure Hydraulic Adapter - 3/4"-16 female inlet & 1/2"-20 male outlet.
	T54660	Adapter - 3/4"-16 female inlet & 9/16"-18 male outlet.
	T54710	Digital Torque Analyzer and Transducer Assembly - 2000 Lb.Ft. capacity.
	T54720	Axle Cap Pipe Plug Remover (Broached End)
	T54721	Axle Cap Pipe Plug Remover (Socket End)
147X2468-1	T54762	GE Welded Head & Liner Turnover Fixture
EMD	T54771	Lower Liner Seal Remover & Installer
	T54770R	Ram
	T54770TA	Top Assembly
	T54770WP	Wobble Plate Assembly
	T54770FC	Female Coupler Ends(2 required)
	T54770P	Hydraulic Pump
	T54770HA	Hose Assy. w/Male Coupler Half(2req'd)
EMD	T54790	EMD Traction Motor Lead Wrench
147X2463	T54800	Exhaust Manifold Alignment Fixture
	T54810	Set of 12 Hex Socket Head Cap Screw Wrenches .050 thru 5/16"
	T54831	Core Plug Ratchet Wrench
EMD	T54840	EMD Horizontal Power Assy. Lifter
	T54860	Radiator Cap Tester
	T54890	Horizontal Cylinder/Power Assy. Lifter for GE Power Assembly.
	T54910	Machinist Tool Cart
	T54922	Battery Lifter
	T54931	Fuel Line Torque Wrench
	T54930W	Wrench Only
	T54931A	Adapter Only
	T54970-ST	Cheater Bar - Straight

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T54970-45	Cheater Bar - 45 deg.
	T54970-60	Cheater Bar - 60 deg.
	T54980S	Traction Motor Lead Braking Wrench Set (Right & Left Hand)
	T54990	GE Crankcase Pressure Gauge mounted on Engine Door.
	T55040	Position Sensor Adjusting Tool-GE Engines
	T55050	GE Shock Absorber Drive Socket 1/2" Sq. drive with shock absorber stud drive end.
	T55066	Dynamic Braking Grid Lifter-Dash 8 Engine
	T55100	Brake Valve Lifter
	T55100-DH	Depressed Handle Brake Valve Lifter w/Wheels
	T55190	AR10 Ratchet Wrench - 1 5/16"
	T55191	AR10 Ratchet Wrench - 1 7/16"
147X2484	T55200	Main Bearing Change-out Kit
	T55280	Grid Alignment Wrench
	T55300L	2 1/4" Fuel Tank Bolt Wrench - Left
	T55300R	2 1/4" Fuel Tank Bolt Wrench - Right
	T55310	Torque Adapter for Fan Drive Coupling
	T55320	GE Alternator/Crankshaft Coupling Bolt Speeder Socket - 3/8" Sq. drive, 1 7/8" single hex output with aluminum body.
	T55410	UP Rocker Arm Depressor
	T55420	GE Engine Front End Cover Lifter
	T55431	GE Engine Intercooler Lifter
	T55440	GE Engine Governor Gear Box Lifter
	T55450	EMD Exhaust Stack Wrench - 1/2" Sq.

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drive with 15/16" double hex output.

T55450-7/8	7/8" EMD Exhaust Stack Wrench
T55460	EMD 710 Engine Turbocharger Lifter
T55470	GE Cylinder hold down Bolt Spinner Wrench - 1/2" Sq. drive input & 2" Sq. drive single hex output.
T55480	2 3/16" Fuel Tank Bolt Wrench (Left & Right)
T55490	2 3/8" Fuel Tank Bolt Wrench (Left & Right)
T55510	21" Long Special 3/4" Dr. Extension
T55560	GE Main Bearing Cap Lifter
T55570	Exhaust Manifold Wrench Consists of: T-300T-I Torque Handle T55570A 5/8" Adapter
T55591	EMD Water Pump Lifter
T55602	Governor Lifting Tool with Chain Fall
T55650	Starter Type Barring Drive Assembly
T55670	GE Cyl. HD Bolt Torque Centering Device
T55680	Oil Pan Seam Bolt Wrench
T55690	EMD Starter Motor Lifter
T55720	Hand Rail Drilling Jig
T55730	Aux. Generator Drive Gear Lifter
T55740	EMD Water Pump Lifter - (Hunt & Cumb)
T55750	Aftercooler Core Lifter
T55760	Gear Train Housing Lifter
T55770S	EMD Fork Rod Support Set
T55810	Overspeed Drain Cup Removal Tool
T55820	3/4" Sq. drive 26" Extension
T55830	Overspeed Drain Plug Puller

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	T55880	GE Alternator Coupling Bolt Wrench 115 Volt
	T55890	Overspeed Drain Plug Installer
41D786298	T55900	GE Crankshaft Top Dead Centering Device
	T55910	EMD Barring-over Tool w/Remote Control
	T55940-90	TM Cable Lug Alignment Tool
	T55940-ST	TM Cable Lug Alignment Tool
	T55961	Cam Bearing Bushing Installation Tool For GE EFI Engines (Thin Wall Bushing)
	T55961P-115V	Electric Hyd. Pump - 115V 60HZ
	T55961P-230V	Electric Hyd. Pump - 230V 50/60 HZ
	T55961H	12' Hose
	T55961R	Ram
	T55961IM	Bearing Installation Mandrel
	T55961RM	Reaction Mandrel
	T55961SS	Starter Spacer
	T55961PC	Pushing Collar
	T55961C	Casters (4 REQ'D)
	T55971	Pushrod Height Adjustment Gage w/Nylon Bolts For GE EFI Engines
	T55980	EMD Brush Pig-Tail Retaining Bolt Torque Wrench
	T55991	Cam Shaft Section Lifter For GE EFI Engines
	T56000	5/8" Male Hex to 1/2" Male Sq. Adapter
	T56010	3/4" Male Hex to 1/2" Male Sq. Adapter
	T56020	EMD 645 Engine Turbo Lifter
	T56030	Tappet Rod Holding Fixture - EFI
	T56051	Tappet Nut Torque Wrench w/1.375 Adapter For GE EFI Engines
	T56051RH	Reaction Handle
	T56051TH	T-300T-I Pre-set Torque Handle 200 Lb.Ft.
	T56051RA	1.375 Reaction Adapter
	T56051TA	Torque Adapter

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T56080	EMD Barring-over Tool
	T56092	EMD Radiator Bank Lifter
	T57040	Journal Box Lifter
	T57050	Universal Rail Stop
	T57090	Accessory Housing Lifter
	T57120	EMD Slack Adjusting Socket
	T57130	15/16" Open End Adapter
	T57140	1-1/2" Torque Adapter for Low Pressure Fuel Hose. (used w/T16491 Torque Wrench)
	T57150R	Fuel Roller Retaining Plate - (right) For GE EFI Engines
	T57150L	Fuel Roller Retaining Plate - (Left)
	T57160	7mm Solenoid Nut Runner For GE EFI Engines
	T57161	5mm Solenoid Nut Runner
	T57170	"C" Frame Manipulator
	T57170-APP	"C" Frame Manip. w/AP Pump
	T57170SC1	Storage Cart for "C" Frame Manipulator
	T57182	Air Compressor Appliance
	T57181-37	GE Air Compressor Appliance
	T57181-37E	Air Compressor Extension
	T57181-37A	Air Compressor Arm
	T57190	Engine to Platform Bolt Torque Wrench Kit
	T57200	EMD Power Assembly Adapter
	T57211	EMD Power Assy. Break Loose Tool w/Socket
	T57221	Inertial Filter Lifter
	T57280	Aftercooler Core Lifter

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T57290	Dynamic Brake Hatch Holder
T57330	EMD Exhaust Screen Lifter
T57330-710	Turbo Screen Adapter f/710 Turbo
T57330-645	Turbo Screen Adapter f/645 Turbo
T57340	1 1/16" Open End Adapter
T57360	Inertial Filter Lifter For use with "C" Frame Manipulator
T57371M	Auxiliary Generator Lifter for GP 38 Locomotive (Non Turbocharged)
T57374	Auxiliary Generator Lifting Adapter (used w/T57170 "C" Frame Manipulator)
T57380	EMD Main Bearing Nut Speeder Socket 1 7/8x1/2" Drive
T57390	Coupler Lifter
T57400	Inertial Filter Blower Motor Impellar Remover
T57431	GE Valve Retaining Tool (Replaced T19531)
T57490	Knuckle Lifter
T57500	"F" Coupler Lifter
T57560	Cantilever Lifter (8 Ft. Lg.) For various locomotive component handling.
T57561	Cantilever Lifter (11 Ft. Lg.) For various locomotive component handling.
T57580	Torque Wrench Analyzer Input Adapter Set
T57640	EMD Armature Lifter
T57660	EMD Oil Cooler Lifting Adapter
T57720	Ground Protection Device
T57730	Intermodal Car Trailer Hitch Unlocking Tool
T57760	Spring Pack Lifter
T57800	EMD Turbocharger Aftercooler Duct Removal &

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
		Installation Tool
T57870		Hydraulic Wrench for Removal & Torquing EMD Power Assembly Crab Nuts. (115V/230V-complete w/Cart)
T57880		TM Suspension Bearing Bolt Removal & Installation Torque Wrench(115V/230V-complete w/Cart)Use with GE or EMD Traction Motors.
T57890		Crankshaft Barring Over Tool for EMD Engines. (115V/230V-complete w/Cart)
T57900		Hydraulic Wrench for Removal & Torquing EMD Main Bearing Nuts. (115V/230V-complete w/Cart) This wrench also works on the 710 series engines.
T57911		Electronic Torque Analyzer for Hydraulic EMD Crab Nut & Main Bearing Wrenches. (115V/230V)
T57950		4" Special Socket
T57960		Anti-Creep Tool
T58010		EMD Crab Nut Speeder Socket (1/2" INPUT - 2-3/4" OUTPUT)
T58040		EMD Main Alternator Lifter
T58060		Journal Box Lifter
T58080		Cam Car Mtg. Bolt Install/Rem. Torque Kit
T58090		Socket f/Speed Sensor Device
T58111		Trainline Hose Wrench Kit
T58130		Combination Wrench & Handhold Straightener
T58160		Camshaft Spindle Bolt Speeder - EFI
T58180		Air Compressor Lifting Cleat
T58190		Hopper Car Door Operator(See Sizes) - 28" - 37" - 40" - 56" - 64"

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T58230	Lens Remover
	T58240	Alignment Pry Bar
	T58250	Relay Stand
	T58260	EMD Grid Assembly Lifter
	T58300	Gear Case Wrench Kit f/AH & AG TM
	T58310	Spanner Wrench - 4 Pin
	T58320	Contact Straightener
	T58330	"T" Handle Wrench
	T58400	Wiper Motor End Cap Box Wrench
	T58420	2.875 Special Reamer - EFI
	T58440	Barring Arbor
	T58450	"T" Nut Driver
	T58580	AG Gear Case Spot Facing Tool
	T58592	AC Traction Motor Speed Sensor Kit
	T58610	Roots Blower Attachment f/"C" Frame
	T58621	EMD Power Assy. Adapter f/"C" Frame
	T58711	Cam Gear Lifter
	T58721	Drawbar "C" Hook Lifter
	T58740	GP9 Aux. Generator Lifter Adapter
	T58750	GP9 Aux. Generator Lifter Adapter - 31"
	T58770	Chain Fall f/"C" Frame's GE Air Compressor
	T58850	Contact Adjuster(See below) T58850-1 T58850-2 T58850-3L T58850-3R
	T58860	Clamp

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
T58890		EMD Axle Cap Torque Kit
T58902		Radiator Bank Lifter (used on Dash 9, & 6000 HP)
T58920		Trainline Hose Wrench
T58940		SD70MAC Air Compressor Lifting Attachment
T58950		Handhold Straightener
T58960		Handhold Straightener
T58970		Truck Side Aligner
T58980		GE Cam Section Lifter Set (Left & Right)
T59110		EMD Roots Blower Ratchet Wrench Kit
T59130		Manual EMD Lower Liner Seal Puller
T59140		1-1/4" Open End Adapter (Bosch)
T59200		Brake Shoe Key Remover
T59210		GE AC Gear Case Reaction Fixt. & Socket
T59220		FRED Anti-Roll Device
T59280		Piston Crown Torque Kit
T59280AD		3/4" Hex to 1/2" Male Adapter
T59280SE		Solid End Replacement Tip
T59281		Piston Crown Torque Kit
T59281DS		1/2" 12pt. Deepwell Socket
T59281SS		Standard 1/2" 12pt. Socket
T4600		24" lg. 3/4" dr.-45 Tooth Ratchet
T5454A		15" lg. 1/2" dr.-45 Tooth Ratchet
T59300		Reaction Arm f/"U" Tube Bolt
T59331		Spreader Beam
T59350		EMD Compression Release Adapter

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T59360	Keensert Insert Drivers
T59370	Bosch Fuel Pump Kit
T59370L	Bosch HP Fuel Pump Adapter - Left
T59370R	Bosch HP Fuel Pump Adapter - Right
T59371S	Bosch Fuel Line Jam Nut Adapter Set
T59380	AR10 Alternator Gear Puller
T59380K	AR10 Bearing Puller Kit
T59500	Cart for Hytorc
T59520	Loco Motoring Control
T59530	0-150 Deg. Thermometer- Mag. Mount
T59560	Flexible Speeder f/T59281
T59570	Bosch Fuel Pump Adapter
T59590	Bosch 5MM Torque Screw Driver
T59610	Electronic Torque Tester 25-250 ft.lb.
T59660	Crab Nut Torque Kit
T59660-1	Torque Motor - Rated 720 Lb.Ft.
T59660-2	1-1/2" Dr. Torque Verifier
T59660-3	1-1/2" Dr. 2-3/4"-6 pt. Socket
T59660-4	Reaction Bracket
T50041	Air Control Kit
T59670	TM Pinion Application Tool
T59680	Pinion Advance Gage Assembly
T59690-18	18 Tooth Hot Stop
T59690-20	20 Tooth Hot Stop
T59690-22	22 Tooth Hot Stop
T59700	Mech. Pinion Advance Tool
T59710	Pinion Taper Gauge Set f/GE 761 Motors
T59720	EMD Pinion Taper Gauge Set

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T59741	Signal Battery Lifter
	T59980	Microphor Chlorinator Cap Wrench
	T59980-1	Comes with T-Handle Grip
	T59980-2	½" Square Drive
	T59980-3	3/8" Square Drive
41A239730P1	T60170	Induction Heater for use in removing Traction Motor Pinions. 230V - 1 phase 160 AMP - 8.75" in diameter.
41A239730P2	T60171	Induction Heater - 460 Volt
41B567146P1	T60180	Clock Assembly
	T60190	Vertical Float Fuel Sensor
	T60200	Houston Switch Tester
41A330084P1	T60220	Induction Heater for 761 Motors - 230V
41A330084P2	T60221	Induction Heater for 761 Motors - 460V
	T60280	Fuel Timer Safety Switch
	T62560	Rail Car Grate Lifter
	T62640	EMD Power Assembly Lifter
	T62660	EMD Water Pump Lifter
	T62730	Snyder Fuel Fill Neck Install/Rem. Wrench
	T62930	EMD Engine Aftercooler Lifter
	T63200	GE Equipment Blower Lifter
	T63260	Fuel Pump Depressor
	T63680	EMD SD70/SD80 MAC Air Compressor Lifter
	T63690	EMD Top Deck Engine Frame Lifter
	T63930	EMD Intercooler Lifter
	T64790	Forklift "C" Frame Lifter
	T65070	Power Assembly Stand f/FDL
	T65281	EMD Lower Basket Bolt Wrench

<u>G.E.</u> <u>PART NUMBER</u>	<u>TESCO</u> <u>PART NUMBER</u>	<u>DESCRIPTION</u>
	T65570	Cam Gear Alignment Tool
GE	T70051	Radiator Fan Remover for GE 7GA57 Gear Drive - Heavy duty
41A288473G3	T70102	Digital Multimeter - New Style