



TRANSPORTATION EQUIPMENT SUPPLY CO.

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## TESCO Tools for EMD Engines



## **EMD TESCO Tools**

## **EMD**

1. General Maintenance
2. Cylinder and Head
3. Pistons and Valves
4. Main Bearing and Crankshaft
5. Connecting Rods
6. Camshaft
7. Fuel Injection
8. Turbocharger
9. Traction Motor
10. Test and Control
11. Governor
12. Miscellaneous
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## General Maintenance



### T50850-APP-D - Dual Air Powered Pump for EMD AC Traction Motor Rotor Removal and Installation (EMD 9533321)

This cart is designed to ease the process of removing and installing rotors from EMD AC Traction Motor Armatures. It is equipped with two 10-foot-high pressure hoses that keep the operator at a safe distance from armature rotor during removal/installation process.

#### Related products

**T51780N** Fill Neck Pressure Fixture With Nut for GE and EMD Engines

**T65401** Inertial Blower Motor Hub Puller - This assembly is used to pull EMD Inertial Blower Motor Hubs. The three locking screws are threaded into holes on the hub, and the puller screw and bridge are assembled onto the puller studs and secured with the included nuts. The puller screw is then extended to pull the hub outward.

**T51861** Gasket for T51770-60 Fill Neck Pressure Fixture - This is the gasket used with the T51770-60 Fill Neck Pressure Fixture and it has a 2.25" Outer Diameter.

**T68490** Infrared & Contact Thermometer - The instrument range is -20 to 1652 degrees Fahrenheit or -30 to 900 degrees Celsius. It is powered by two AA Alkaline Batteries and comes with operating instructions. It includes a surface temperature probe for use on pinions, shafts and hubs. It rates -196 to 1112 degrees Fahrenheit (-127 to 600 degrees C). It is compatible with K-Type Thermocouples and existing K Type Probes. this replaces the T2X3430 Pyrometer Kit.



### Torque Wrenches for General Maintenance

- 1 T59810 Torque Screwdriver 4-36 In-LB
- 2 T18220 (8377322) 3/8" Drive Torque Wrench (10-75 Ft. lbs)
- 3 T67430 J Shank (.425") Adjustable Torque Handle (5-75 Ft. lbs)
- 4 T67510 3/8" sq. drive, Flex Head Torque Handle (5-100 Ft. lbs)
- 5 T20710 3/8" sq. drive 30-250 In-lbs torque wrench
- 6 T16491 Y Shank (.560") Adjustable Torque Handle (30-150 Ft. lbs)
- 7 T54930W 45-220 lb. Ft. torque handle (spigot drive)
- 8 T16491X X Shank (.735") Adjustable Torque Handle (60-250 Ft. lbs)
- 9 T16492TECH X Shank (.735") Adjustable Torque Handle (25-250 Ft. lbs)
- 10 T-200T-I Y Shank (.560") Pre-Set Torque Handle (45-200 Ft. lbs)
- 11 T22520 (8206869) 1/2" Drive Ratcheting Torque Wrench (30-250 Ft. lbs)
- 12 T-300T-I X Shank (.735") Pre-Set Torque Handle (100-300 Ft. lbs)
- 13 T18230 Torque Wrench - 3/4" Ratchet Style Square Drive 100-600 FT-LB
- 14 T18250 Torque Wrench, 0-1000 Lb.Ft., 1" Square Drive

**T85205 Universal Engine Lifter**

The T85205 Engine Lifter supersedes the previous designs and is a universal lifting platform that will accommodate EMD Engines, GE FDL, Evolution, and Tier 4 Engines with and without the muffler attached. The frame is universal and all that is required for quotation/purchase is to let us know what engines you plan on lifting and in what configuration (muffler / no muffler for EVO / T4). The number of different engines and configurations grew to a point where lifters became custom to individual locations and the part numbers and descriptions were confusing. This platform simplifies the entire process and allows future additions without sending the unit back to TESCO for modification. For example, if you have the T85205 with the components for the EVO Engine and would like to start lifting T4 Engines you would simply order the individual components on the T4 callout page and install onto your existing frame.

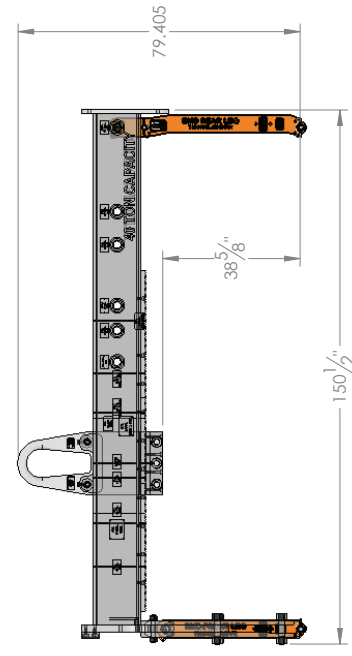
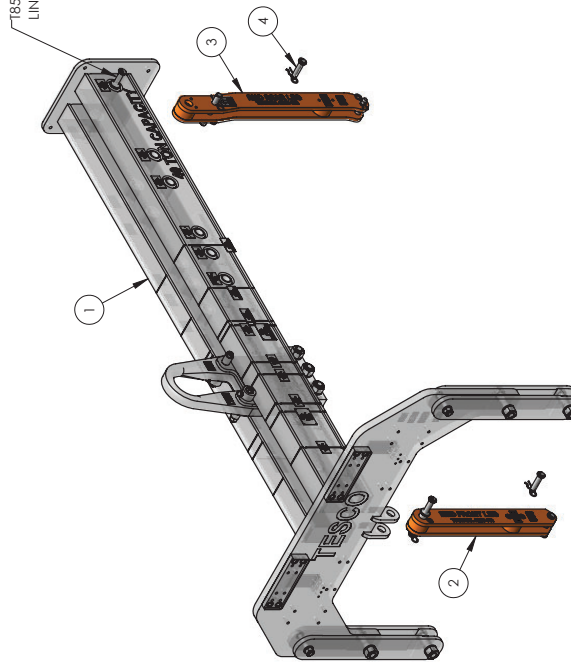
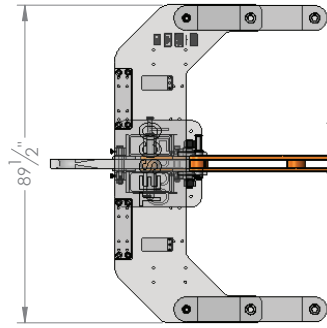
# ELECTRO-MOTIVE DIESEL

## EMD ENGINE LIFTER

**WARNING!**  
DO NOT EXCEED RATED CAPACITY.  
INSPECT BEFORE EVERY USE. REPORT ANY  
OBSERVED DAMAGE AND REMOVE LIFTER  
FROM SERVICE. IMPROPER OPERATION  
MAY RESULT IN SERIOUS INJURY.

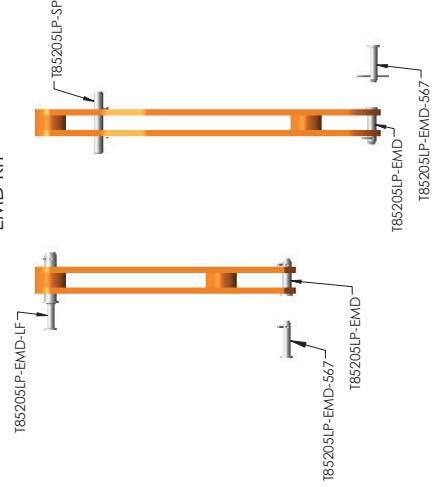
WLL/RATED LOAD: 80,000LBS

T85205LP-LF  
LINK PIN, LIFTER FRAME



### T85205KT-EMD

#### EMD KIT



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	T85205	ENGINE LIFTER ASM F/EMD/FD/J/GEVO/TIER 4	1
2	T85205LL-EMD-FR	EMD FRONT LIFTER LEG	1
3	T85205LL-EMD-RR	EMD REAR LIFTER LEG ASM	1
4	T85205LP-EMD-567	EMD 567 LINK PIN ASM	2

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL: 1/64  
ANGULAR: MACH±.5° BEND ±1°  
ONE DECIMAL: .X ±.01  
TWO DECIMAL: .XX ±.01  
THREE PLACE DECIMAL: .XXX ±.0005  
INTERPRET GEOMETRIC TOLERANCING PER:  
ASME Y14.5-2009






COMPANY NAME: TRANSPORTATION EQUIPMENT SUPPLY COMPANY  
8106 HAWTHORNE DRIVE  
ERIE, PA 16509  
(814) 866-1932






TOOL NAME: EMD ENGINE LIFTER  
DATE: 1/20/2016  
DWG. NO.: EMD ENGINE LIFTER  
REV: 1

SCALE: 1:35 WLT: 5080.48 LB SHEET 1 OF 1

**PROPRIETARY:**  
THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF  
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OR AS A WHOLE WITHOUT THE WRITTEN  
PERMISSION OF TESCO IS PROHIBITED.



	<p><b>T67510 3/8" Square Drive Digital Torque Handle 5 to 100 Ft/Lbs</b></p> <p>This is a 3/8" drive 5 to 100 Lb/Ft adjustable torque wrench. It is accurate +-2% Clockwise and +- 3% counter clockwise between 20 and 100% of full scale. The T67510 operates in six measurement modes (ft-lb, in-lb, N•m, Kgcm, dNm, angle).</p>
	<p><b>T67430 5-75 Ft. Lb. J Shank Micro Adjustable Wrench</b></p> <p>This is a single scale (English) J Shank Torque Wrench adjustable from 5 to 75 Lb/Ft. This wrench has an accuracy of 4% from 20% to 100% of full scale and adjusts in .5 Lb/Ft increments.</p>
	<p><b>T67100 EMD Hand Tool Set (EMD 8243903)</b></p> <ul style="list-style-type: none"> <li>3/8" Drive Ratchet 8" Adjustable Pliers</li> <li>3/8" Drive 12 Inch Extension 16 oz ball pein hammer</li> <li>3/8" Drive 6 Inch Extension Soft Face Hammer</li> <li>3/8" Drive 3 Inch Extension 3/8" x 7/16 Box Wrench</li> <li>3/8" Drive 7-7/8 Hinge Handle 1/2" x 9/16" Box Wrench</li> <li>3/8" Drive Universal Joint 9/16" x 5/8" Box Wrench</li> <li>3/8" Drive Socket Set / 10 pc / 12 pt. 11/16" x 3/4" Box Wrench</li> <li>1/2" Drive Ratchet 13/16" x 7/8" Box Wrench</li> <li>1/2" Drive 15-3/4" Hinge Handle 15/16" x 1" Box Wrench</li> <li>1/2" Drive 5 Inch Extension 3/8" x 7/16" Open end wrench</li> <li>1/2" Drive Universal Joint 1/2" x 9/16" Open end wrench</li> <li>1/2" Drive Socket Set 5/8" x 3/4" Open end wrench</li> <li>1/4" x 3" Slotted Screwdriver 11/16" x 3/4" Open end wrench</li> <li>5/16" x 10" Slotted Screwdriver</li> <li>13/16" x 7/8" Open end wrench</li> <li>Roll Head Pry Bar</li> <li>15/16" x 1" Open end wrench</li> <li>1/4" Punch</li> <li>1-1/16" x 1-1/4" Open end wrench</li> <li>1/2" Chisel</li> <li>1-1/4" x 1-5/16" Open end wrench</li> <li>13 Piece Ball Hex Key Set</li> <li>1-1/8" x 1-3/16" Open end wrench</li> <li>Slip Joint Pliers</li> <li>Toolbox</li> <li>Diagonal Pliers</li> </ul>
	<p><b>T66730 EMD ACE Starter Relay Check Valve Compressor Tool</b></p>
	<p><b>T63491 EMD Check Valve Spreader</b></p> <p>The pipe saddle on this jack has an ID of 1.5" and a width of 3/4". It has a rotating knurled pad at the base and the length is adjustable by a total of 2 1/".</p>

	<p><b>T62610A EMD Pipe Jack Saddle</b></p> <p>The pipe saddle on this jack has an ID of 2.5" and a width of 1". It has a rotating knurled pad at the base and the length is adjustable by a total of 1 3/4".</p>
	<p><b>T57911 Electronic Torque Analyzer for Pneumatic and Hydraulic Wrenches 25 to 4000 FT LBS Universal Input Voltage</b></p> <p>This torque tester has a range of 25-4000 lb.ft. with an accuracy of +/- .5% of reading from 20% to 100% of full scale. 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. This tester will accept an input of 1" and 1 1/2" square drives.</p>
	<p><b>T54910 Machinist's Hand Tool Cart</b></p> <p>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.</p>
	<p><b>T51750GS Cooling System Test Kit for Genset Locomotives</b></p> <p>Test to be performed at 20 PSI. Kit includes:</p> <ul style="list-style-type: none"> <li>1 T51800 Inlet Valve</li> <li>2 T51790 Regulator</li> <li>3 T51831 0-30 PSI Gage</li> <li>4 T16041 Hose</li> <li>5 T50150 Cage</li> </ul>
	<p><b>T51750 Cooling System Test Kit for GE and EMD Engines</b></p> <p>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.</p> <p>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</p>





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.





T51750 - Cooling System Test Kit  
T51760 Water Regulator Kit  
T51780 GE Fill Neck Pressure Fixture  
T51780 - Fill Neck Pressure Fixture  
T51850 Tangs (3)  
T51860 Gasket  
T51870 Screws (6)  
T51760 - Water Regulator Kit  
T51800 Inlet Valve  
T51790 Water Regulator  
T51820 1/2" Pipe Cross  
T51830 Pressure Gage (0-60 PSI)  
T51840 1/2" Nipple  
T51800 Dump Valve  
T51810 Dump Hose  
T16040 Hose  
T50150 Cage















#### **T50041 Air Control Kit for Various Pneumatic Kits**







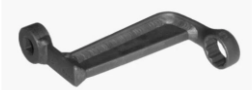

The T50041 Air Control Kit features a modular two-piece pressure regulator and filter/lubricator mounted to the T50150 Protective Cage. The pressure gage reads up to 160 PSI and the kit has all 1/2" NPT hardware along with a 10' hose.





## EMD Cylinder and Head




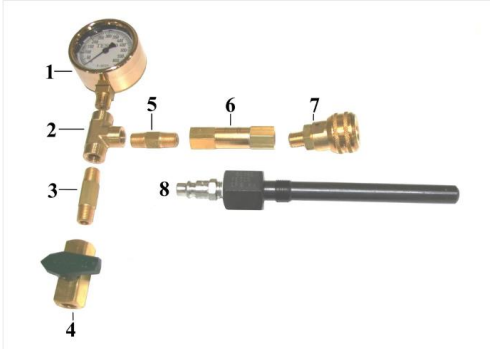
	<p><b>T57870-230V (EMD 8523801) Hydraulic Cylinder Crab Nut Wrench 230 volt</b></p> <p>This wrench is equipped with a 1 1/8 HP hydraulic powered electric driven 9,000 PSI power unit, 25 feet hose assembly, wrench head (adjustable from 500 to 3,500 lb.ft. of torque), two-wheel cart, and two socket torque 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. T57870-230V Hydraulic Cylinder Crab Nut Wrench 230 volt</p>
	<p><b>Related products</b></p>
	<p><b>T50034 Pneumatic Crab Nut Torque Kit (EMD 8408219)</b></p> <p>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 T16070 air motor. This kit incorporates the new T67720 single piece reaction fixture which is lighter and easier to use than the previous version.</p> <ul style="list-style-type: none"> <li>1 T16070 1 1/2" Drive Torque Motor</li> <li>2 T50041 Air Control Kit</li> <li>3 T67720 Reaction Fixture</li> <li>4 T50063 2 3/4" Socket 1 1/2" Square Drive</li> </ul>
	<p><b>T57201 Power Assembly Lifting Adapter for C Frame Manipulator</b></p> <p>The T57201 Power Assembly Adapter is used to remove and install all EMD Power Assemblies except those found in GP7/GP9 Locomotives. This appliance is one of many to be used with a T57170 "C" Frame Manipulator. The power assemblies should first be jacked out of the engine case using a T57211 Break Loose Tool or a T57211CK Wide Base Break Loose Tool. Rated Load 750 Lbs.</p>
	<p><b>T57870COMBO-230V Combination Hydraulic Crab Nut and Main Bearing Wrench 230 Volt</b></p> <p>This wrench can be used to either torque main bearings or crab nuts using the same 230 Volt hydraulic pump. Both torque handles are equipped with quick disconnects for easy changeover. There are three pressure settings on the pump (900, 1,800 and 2,400 Lb/Ft) for the crab nut application, and the unit self-adjusts to 350 and 750 Lb/Ft when connected to the main bearing wrench head.</p>

	<p><b>T67390 EMD Exhaust Chamber Lifter</b></p> <p>This appliance connects to the T57170 "C" Frame Manipulator and is used to install/remove Exhaust Chambers in EMD engines.</p>
	<p><b>T67212 EMD Exhaust Manifold Jack</b></p> <p>This tool is used to jack up individual sections of the EMD exhaust manifolds. It features a 5/8" hex drive on the jack and a safety strap to secure the manifold section</p>
	<p><b>T66700 EMD Head Frame Bolt Wrench 9/16"</b></p> <p>This is a 9/16" 12-point box end adapter with a 3/8" square drive input for EMD Head Frame Bolts.</p>
	<p><b>T65160 EMD Cylinder Pod</b></p> <p>This is a mobile storage stand for a single EMD Cylinder. The T65160 does not include T62640 EMD PA Lifter in photo.</p>
	<p><b>T64151 EMD Exhaust Manifold Lifter</b></p> <p>This appliance is used with T57170 "C" Frame Manipulator to install and remove exhaust manifolds on EMD Engines. The contoured plate covers the top of a exhaust manifold and a strap is placed around the surface to hold it secure. The package is then hydraulically manipulated by using either the "C" Frame Ram or the hydraulic ram attached to the appliance. A three-way ball valve controls the hydraulic flow.</p>

	<p><b>T63700 EMD Cylinder Liner Lifter (EMD 8116358)</b></p> <p>This tool is used as a jacking mechanism and a lifter to remove EMD cylinder liners once the heads have been pulled.</p>
	<p><b>T62940 EMD Power Assembly Lifter</b></p>
	<p><b>T62640 EMD Power Assembly Lifter for Type C, D and E Engines (EMD 8417858)</b></p> <p>This Power Assembly 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.</p>
	<p><b>T59900 EMD Power Assembly Lifting Hoist (EMD 8206099)</b></p>
	<p><b>T59880 EMD Upper Deck Bolt Adapter</b></p>
	<p><b>T59661 Crab Nut Torque Kit</b></p> <p>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 &amp; reaction bracket are installed on the crab nuts, then the pneumatic torque wrench is installed onto the verifier.</p> <ol style="list-style-type: none"> <li>1 T50041 - Air Control Kit</li> <li>2 T10001 - 3/4" Sq Drive Pistol Grip Pneumatic Air Motor</li> <li>3 T50063 - EMD Crab Nut 2-3/4" Socket - 1-1/2" Sq. Dr.</li> <li>4 T59660RB - Reaction Bracket</li> </ol>
	<p><b>T59350 Compression Release Pin Adapter (EMD 8032587)</b></p> <p>This tool provides a 1/2" square drive and is useful for removing and installing EMD Flash Cock Firing Pins.</p>









	<p><b>T59130 Manual Lower Liner Seal Puller</b></p> <p>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.</p>
	<p><b>T58621 EMD Power Assembly With Jewelry Lifting Adapter for C Frame Manipulator</b></p> <p>This power assembly adapter does not require removing jewelry from the power assembly during removal and installation.</p>
	<p><b>T57211B Bolt for T57211 EMD Power Assembly Break Loose Tool</b></p>
	<p><b>T57211 EMD Power Assembly Break Loose Jacking Tool</b></p> <p>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.</p>
	<p><b>T57200-9 Power Assembly Adapter for GP 9</b></p> <p>This appliance is used with the T57170 "C" Frame Manipulator to remove/install a power assembly in the narrow GP 9 engine compartment. It features an elongated neck to create the angle necessary for removal/installation.</p>
	<p><b>T55450-7/8 EMD Exhaust Stack Wrench 7/8"</b></p> <p>This is a 7/8" 12 point adapter with a 1/2" square drive input for EMD Exhaust Stack Bolts.</p>
	<p><b>T55450 EMD Exhaust Stack Wrench 15/16"</b></p> <p>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.</p>
	<p><b>T54840 EMD Power Assembly Horizontal Lifter</b></p>

	<p><b>T54771E 1 Ram Extension for T54771</b></p>
	<p><b>T54771 Cylinder Lower Liner Seal Remover and Installer Kit for EMD Engines (EMD 8275379)</b></p> <p>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.</p> <ul style="list-style-type: none"> <li>1 T54771 R Ram</li> <li>2 T54771 TA Top Assembly</li> <li>3 T54771 WP Wobble Plate Assembly</li> <li>4 T54771 FC Female Coupler Ends (2 required)</li> <li>5 T54771P Hydraulic Pump</li> <li>6 T54771 HA Hose assembly with Male Coupler Half (2 req.)</li> <li>7 T54771 E Ram Extension</li> </ul>
	<p><b>T50980 EMD Compression Tester Set</b></p> <p>This set is used to test Cylinder Compression on EMD 567, 645 and 710 Engines. These sets have proven their value to diagnose low compression on individual power assemblies. Readings below 270 PSI may be viewed as low. The set contains eight individual T50213 Compression Testers and a padded hard plastic storage box. Problems found include liner scoring, worn rings, loose piston crowns, chipped valves and cuts in the valve seats. It is important to remove these assemblies as they burn fuel inefficiently and elevate exhaust temperature.</p> <p>Testers are typically used a bank at a time or as an engine set. Once installed on the engine the operator must prevent the engine from starting. The batteries are used to crank the engine to trap readings. If a power assembly is identified as being low a second test should be performed with a reliable tester (new preferable) to duplicate the reading, and if the readings are consistent the power assembly should be removed.</p> <p>The T50980 Set contains:</p> <ul style="list-style-type: none"> <li>8 T50213 EMD Compression Tester</li> <li>1 T22711 Storage Box</li> </ul>
	<p><b>T50970B Bolts for T50970 EMD Heavy Duty Cylinder Head Puller</b></p>







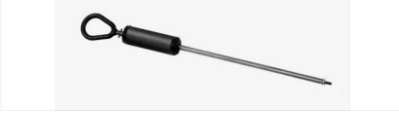
	<p><b>T50970 Heavy Duty Cylinder Head Puller for EMD Engines (EMD 8075894)</b></p> <p>This puller was designed to pull the most stubborn heads. It incorporates Grade 8 jacking screws, heat treated flange nuts and collars. It has also been structurally improved over pullers commonly used.</p>
	<p><b>T50510 EMD Flash Cock Removal Tool</b></p>
	<p><b>T50451 EMD Power Assembly Service Cart</b></p> <p>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.</p>
	<p><b>T50213 Individual EMD Compression Tester</b></p> <p>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.</p> <p>Individual Testers T50213 Compression Tester - EMD</p> <ul style="list-style-type: none"> <li>1 T50121 Gage</li> <li>2 T50330 Tee</li> <li>3 T50341 Nipple</li> <li>4 T50142 Release Valve</li> <li>5 T50131 Check Valve</li> <li>6 T50192 Filter</li> <li>7 T50171 Socket</li> <li>8 T50160 EMD Adapter</li> </ul>



## EMD Pistons and Valves

	<p><b>T67031 EMD Valve Height Checking Tram (EMD 8042773)</b></p> <p>This tool is used to measure the difference in valve stem heights. The tram incorporates a .0008" digital dial indicator and performs the same function as EMD part number 8042773.</p>
	<p><b>T10993 Piston Ring Expander</b></p> <p>This is the newest version of the GE FDL and EMD piston ring expander. The tool incorporates a more precise radius and gripping tabs to grab and hold the piston rings for easy expansion. The handle has an internal spring return and is a lightweight alternative to the previous versions.</p>
	<p><b>T68300 Lead Holder (EMD 8243220)</b></p> <p>This tool is used to check piston to head clearance on EMD power assemblies. 1/8" wire is inserted into both sides of the holder and the assembly is placed on the top of the piston. The engine is barred over and the wire removed to measure the compressed wire dimension per OEM instructions. 1/8" lead wire is also available in a 5 Lb spool - T68310 (8243661)</p>
	<p><b>T67680 Wheel Holder for Lathe</b></p> <p>This wheel holder accommodates all the wheels in the T10472 and T10472EMD grinding sets. The 1 1/2" stem is clamped in a chuck of an engine lathe to redress the wheel.</p>
	<p><b>T67670 Diamond Cutting Tool Holder</b></p> <p>This tool holds a diamond tip dressing tool and is used w/T67680 to re-dress grinding wheels using an engine lathe.</p>
	<p><b>T67090 EMD Injector Pry Bar (EMD 8041183)</b></p>
	<p><b>T67070 EMD Piston Carrier Retainer Snap Ring Remover (EMD 8171633)</b></p>
	<p><b>T67030 EMD Valve Height Checking Tram</b></p> <p>Used to determine if there is a difference in valve stem heights. The tram incorporates a .0005" digital dial indicator.</p>



	<b>T67020 EMD Minimum Clearance Lash Adjuster (EMD 8107788)</b>
	<b>T67011 EMD Piston Oil Cooling Pipe Gage (EMD 8071720)</b>  Used to check proper alignment of the piston cooling oil pipe.
	<b>T66840 EMD Multi Valve Spring Compressor for 645 and 710 Engines</b>
	<b>T66821 EMD Piston Ring Compressor (EMD 9333846)</b>  Precision EMD 645 and 710 Piston Ring Compressor. This is a totally machined and stress relieved tool that holds all dimensions from the centerline of the tool, ensuring accurate placement of the piston ring into the liner.
	<b>T66680 EMD Piston Pulling Eye (EMD 8040413)</b>
	<b>T54581 Piston and Rod Retainer for EMD 567 645 and 710 Engines (EMD 8160626)</b>  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.
	<b>T51082 Piston and Rod Holding Tool for EMD Engines (EMD 8417859)</b>  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.








**T10472EMD - Valve Seat Grinding Kit for EMD Engines (EMD 8332668)**

These sets are used to face valve seats in EMD 567, 645 and 710 Engine Heads. The dressing tools have been replaced by the T67680 (4) and T64670 (4A) lathe tools. The wheel is threaded onto the T67680 wheel holder, clamped in a chuck of an engine lathe, and re-dressed using the T67670 diamond tip dressing tool.

- 1 T10471AD EMD Air Driver
- 2 T10500 Dial Indicator
- 3 T10620-.626" Tapered Pilot - .626"  
T10620-.627" Tapered Pilot - .627"  
T10620-.628" Tapered Pilot - .628"  
T10620-.629" Tapered Pilot - .629"  
T10620-.630" Tapered Pilot - .630"  
T10620-.631" Tapered Pilot - .631"
- 4 T67680 Wheel Holder for Lathe
- 4A T67670 Diamond Cutting Tool Holder
- 5 T10490 Pin - Pilot Removing
- 6 T10511 Spring
- 7 5/16" Allen Wrench
- 8 1/8" Allen Wrench
- 9 T10541 Grinding Wheel Holder (3 required)
- 10 Grinding Wheel (30 degree for 20 degree angle)
- 11 Grinding Wheel (45 degree for 60 degree angle)
- 12 Grinding Wheel (90 degree for 20 degree angle)

## Main Bearing and Crankshaft

	<p><b>T68660 Upper Main Bearing Shell Remover (EMD# 8055837)</b></p> <p>This brass tool is inserted into the crankshaft oil hole and the engine is barred over to remove the upper main bearing shell</p>
	<p><b>T67860 Offset Main Bearing Wrench (EMD# 8191591)</b></p> <p>This 3/4" ratcheting wrench comes with a 1 7/8" 12 point socket and is used on the EMD Main Bearing Nuts. The wrench is angled upward for ease of use and has a knurled handle for increased grip.</p>
	<p><b>T57870COMBO-230V Combination Hydraulic Crab Nut and Main Bearing Wrench 230 Volt</b></p> <p>This wrench can be used to either torque main bearings or crab nuts using the same 230 Volt hydraulic pump. Both torque handles are equipped with quick disconnects for easy changeover. There are three pressure settings on the pump (900, 1,800 and 2,400 Lb/Ft) for the crab nut application, and the unit self adjusts to 350 and 750 Lb/Ft when connected to the main bearing wrench head.</p>
	<p><b>T65182 EMD Starter Wrench Assembly</b></p> <p>This adapter consists of a 24" extension with a 1/2" square drive and a 15/16" wobble socket for removing the starter motor mounting bolts on an EMD Engine. The overall length is 25 3/4".</p>
	<p><b>T64520 EMD Speed Sensor Socket (EMD 8498344)</b></p> <p>This is a 3/4" 12 point adapter with a wire accommodating slot machined down the center and a 1/2" square drive input for EMD Speed Sensors.</p>

	<b>T62580 SP Single Pin EMD Main Brg Cap Lifter</b>
	<b>T62580 DP Double Pin EMD Main Brg Cap Lifter</b>
	<b>T57900-230V Hydraulic Main Bearing Wrench 230 volt (EMD 8474806, 8474807, and 9523800)</b>  This wrench also works on the 710 series engine. It is equipped with a 1 1/8 HP 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
	<b>T57890-230V EMD Crankshaft Barring Over Tool 230 volt (EMD 9532633)</b>
	<b>T57710S EMD Main Bearing Cap Lifter Spoon Type (EMD 8487487)</b>

**T55910 EMD Pneumatic 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.

1 T22020 Air Motor






2 T22031 Remote Control

3 T55651 Barring Drive Assembly

**T55651 Barring Drive Assembly for T55910 EMD Barring Over Tool**


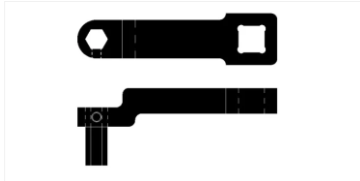

To be used with T22020 Drive Motor

## EMD Connecting Rods






	<p><b>T65281 Connecting Rod Lower Basket Bolt Wrench 1/2 Inch Square Drive EMD Engines (T65281 Connecting Rod Lower Basket Bolt Wrench 1/2 Inch Square Drive EMD Engines (EMD 8236718)</b></p> <p>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.</p>
	<p><b>T64741 EMD Connecting Rod Positioner (EMD 8417881)</b></p>
	<p><b>T55770S Fork Rod Support Set For EMD Engines (EMD 8052958)</b></p> <p>These tools are used to position and hold the Fork Rod out of the way when removing and installing the blade rod power assembly</p>
	<p><b>T54000-15 15" EMD Upper Basket Bolt Wrench</b></p>
	<p><b>T54000 Connecting Rod Upper Basket Bolt Wrench</b></p> <p>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.</p>



# Camshafts

	<p><b>T67130 EMD Cam Bolt Wrench Kit</b></p> <p>Kit Features a 9/16" 12 Point Torque Adapter with handle. Also included is a torque wrench pre-set to 35 Ft-lbs</p> <p>T67130 EMD Cam Bolt Wrench Kit</p> <table border="0"> <tr> <td>1</td> <td>T67130A</td> <td>Torque Adapter - 9/16" 12 Point</td> </tr> <tr> <td>2</td> <td>T67130H</td> <td>Torque Adapter Handle</td> </tr> <tr> <td>3</td> <td>T67130W</td> <td>35 Ft-Lb Preset Torque Wrench</td> </tr> </table>	1	T67130A	Torque Adapter - 9/16" 12 Point	2	T67130H	Torque Adapter Handle	3	T67130W	35 Ft-Lb Preset Torque Wrench
1	T67130A	Torque Adapter - 9/16" 12 Point								
2	T67130H	Torque Adapter Handle								
3	T67130W	35 Ft-Lb Preset Torque Wrench								
	<p><b>T66070 EMD Cam Bracket Torque Adapter</b></p>									
	<p><b>T57700 EMD Cam Drive Gear Lifter</b></p>									
	<p><b>T57480 EMD Cam Shaft Lifter</b></p>									





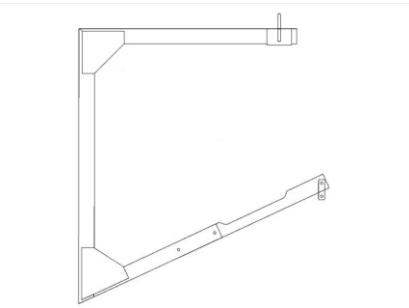
## EMD Fuel Injection


 A handheld test probe with a blue handle and a red LED indicator at the top. The handle has "MAG probe" printed on it.	<p><b>T87090 MAG Test Probe</b></p> <p>Probe can be used to indicate if a solenoid or relay is energized. If the solenoid is electrically energized, the LED will light.</p>
 A black metal tool with a T-shaped handle and a vertical shaft ending in a small tip.	<p><b>T68041 EMD Valve Lash Adjustment Tool</b></p> <p>This tool allows a machinist to turn the screwdriver independently of the lock nut socket to adjust the rocker arm adjusting screw to the proper weight, and then tighten and torque the lock nut while maintaining the proper screwdriver position. The socket is welded to a standard 'Y' shank adapter for use with a T16491 Universal Torque Handle.</p>
 A long, thin metal rod with a small square block in the middle and a pointed tip.	<p><b>T65670 Injector Timing Gauge (EMD 8034638)</b></p>
 A complex metal gauge with a large black adjustment knob on the left and a horizontal measuring arm.	<p><b>T65660 EMD Injector Rack Gauge (EMD 8339610)</b></p>
 A metal rack and pinion tool with a large black adjustment knob and a horizontal measuring arm.	<p><b>T65630 EMD Rack Jack (EMD 8432485)</b></p>





# EMD Turbocharger

	<p><b>T62920 EMD Turbocharger Tub Lifter</b></p> <p>The Turbo Tub lifter incorporates two 3/8"-24 bolts to lift the tub. WWL 150 lbs.</p>
	<p><b>T57800 EMD Turbocharger Aftercooler Duct Lifting Attachment for C Frame Manipulator</b></p> <p>This tool is used with the "C" Frame Manipulator for the installation and removal of EMD Turbocharger Aftercooler Ducts.</p>
	<p><b>T57330 710 EMD Turbocharger Screen Lifter Adapter for 710 Engine Attaches to T57330 Lifter</b></p>
	<p><b>T57330 645 EMD Turbocharger Screen Lifter Adapter for 645 Engine Attaches to T57330 Lifter</b></p>
	<p><b>T57330 EMD Turbocharger Screen Lifter for 645 and 710 Engines Requires Proper Adapter</b></p> <p>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.</p>

	<p><b>T56022 Turbocharger Lifter for EMD 645 Engines (EMD 8293333)</b></p> <p>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.</p> <p>Replacement hardware is available. The T56022H Hardware Set includes everything that hangs from the frame (chains, eye bolts, turn buckles and shackles).</p>
	<p><b>T55461 Turbocharger Lifter for EMD 710 Engines</b></p> <p>This lifter is equipped with two set length chain falls and two fully adjustable chain fall assemblies to ensure a level lift with any 710 Turbocharger. The two adjustable assemblies feature chain shorteners that can any lock individual links into place providing ample height adjustment.</p> <p>The T55461CS contains a complete replacement of all four chain fall assemblies.</p>

## EMD Traction Motor



### T50850-APP-D - Dual Air Powered Pump for EMD AC Traction Motor Rotor Removal and Installation

This cart is designed to ease the process of removing and installing rotors from EMD AC Traction Motor Armatures. It is equipped with two 10 foot high pressure hoses that keep the operator at a safe distance from armature rotor during removal/installation process. Procedure can be supplied upon order.



### T50850-APP Air Powered Traction Motor Pinion and Mechanical Hub Puller

This mobile cart features an air powered pump to produce 0-40,000 PSI output while using all high pressure (60 degree) fittings throughout the unit. The system incorporates a two gallon supply tank and air regulator with gauge conveniently placed at waist level. The hydraulic line also incorporates a 40,000 PSI output gauge with a shutoff valve.

The cart comes complete with an 8' flexible hydraulic hose with standard high pressure fittings to attach to the various adapters. The kit is intended to ease pinion and hub removal as opposed to manual kits.



### T67280CP AC Traction Motor Wheel Slip and Speed Sensing Tester Accommodates GE and EMD Locomotives.










The tester is battery powered with charger and mounted on a cart for ease of movement. It includes mounting locations that allow for GE and EMD speed sensing cables to be mounted directly to the tester. The tester powers a 192 tooth gear that is proximate to the cable magnetic pick up. The tester can be powered in both directions using a 75' cable and pendant that the electrician operates in the cab of the locomotive. It has a range of 0-2800 RPM in both directions.




The tester helps identify faulty cables, cable connections, wiring faults and ensures proper operation of the AC wheel slip systems. It is complete with a cable expansion for the location on the GE locomotive that prevents direct cable connection to the tester.



### T66610H EMD MAC 90 Pinion Adapter 3/4" Hex

This adapter is used in conjunction with the T50850 Pinion Puller Set to pull EMD pinions. It has a 9/16"-18 female thread on one end and a 1/4"-19 male thread on the other. It has an external 3/4" hex on one end.

	<p><b>T66610 EMD MAC 90 Pinion Adapter</b></p> <p>This adapter is used in conjunction with the T50850 Pinion Puller Set to pull EMD pinions. It has a 9/16"-18 female thread on one end and a 1/4"-19 male thread on the other.</p>
	<p><b>T64140 EMD Wheel Journal Adapter Lifter</b></p>
	<p><b>T63710 Gear Case Cap Wrench</b></p>
	<p><b>T63160 EMD MAC 70 Journal Box Puller</b></p>
	<p><b>T59720P EMD Pinion Taper Plug Gage for D90 Traction Motors</b></p>
	<p><b>T59720 Armature Shaft Taper Gauge EMD Domestic Motors</b></p>
	<p><b>T58890 Traction Motor Axle Cap Pneumatic Torque kit for EMD Motors</b></p> <ul style="list-style-type: none"> <li>1 T58890LA Long Reaction Arm (7 3/4")</li> <li>2 T58890SA Short Reaction Arm (3 1/4")</li> <li>3 T20001 Torque Motor</li> <li>4 T50041 Air Control Kit</li> <li>5 T16000 Socket 2" 6 point</li> </ul>
	<p><b>T55980 EMD Brush Pig Tail Ret Bolt T Wrench</b></p>
	<p><b>T54980S EMD Traction Motor Lead Braking Wrench (EMD 8243341)</b></p> <p>The Traction Motor Lead Braking Wrench Set is manufactured as right and left hand models which when applied to the cable lug, fully grip it and cannot slip off.</p>

	<p><b>T54651 Adapter 3/4\"-16 Female Inlet 1/2\"-20 Male Outlet for EMD Pinions</b></p> <p>This high pressure adapter features a 3/4\"-16 female inlet and a 1/2\"-20 male outlet for removing EMD Pinions.</p>
	<p><b>T51570I EMD Traction Motor Pinion Nut Wrench (EMD 8127528)</b></p> <p>This tool is equipped with a 1\" square female drive, and is made from a high grade steel for increased durability and longer life.</p>
	<p><b>T50880-6 Tube to Motor Shaft Hydraulic Adapter</b></p> <p>This adapter is used in conjunction with the T50850 Pinion Puller Set to pull traction motor pinions. It has a 9/16\"-18 female thread on one end and a 3/8\"-24 UNF male thread on the other. This adapter is 6\" long</p>

**T50850 Hydraulic Traction Motor Pinion Puller Set**

The GE 752 Traction Motor Pinion Puller Set has been redesigned 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.

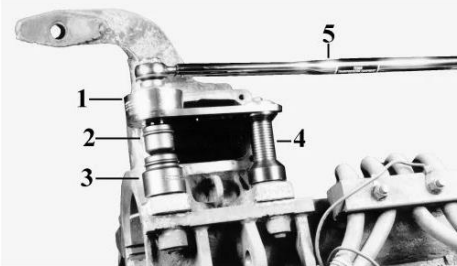
T50900 Retainer Plate for GE 752 Armature Shaft with two threaded 1.00" - 8 holes on end of shaft.

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 Sleeves
  - 4 T50870 (2) Gland Nuts
  - 5 T50720 Tubing Only
  - 6 T50880 Armature Shaft Pressure Adapter, 9/16"-18 female x 3/8"-24 male
  - 3,4,5 T50920 Tubing Assembly (2 T50730 Sleeves and 2 T50870 Nuts)
- Other armature shaft pressure adapter available:
- 1 T50850-FHA Flexible Hose Assembly
  - 2 T50880-6 9/16" female x 3/8"-24 male x 6" long
  - 3 T50880 9/16" female x 3/8"-24 male
  - 4 T66610 MAC 90 Adapter 9/16"-18 female x 1/4" -19 BSP male  
T66610H Same as above w/hex base (not shown)
  - 5 T54650 9/16"-18 female x 1/2"-20 male
  - 6 T54451 3/4"-16 female x 3/8"-24 male
  - 7 T54651 3/4"-16 female x 1/2"-20 male

**T50660 EMD Traction Motor Axle Cap Manual 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 Ft. Lb. Ratcheting Torque Wrench

## EMD Test and Control

	<p>T68490 Infrared &amp; Contact Thermometer</p> <p>The instrument range is -20 to 1652 degrees Fahrenheit or -30 to 900 degrees Celsius. It is powered by two AA Alkaline Batteries and comes with operating instructions.</p> <p>It includes a surface temperature probe for use on pinions, shafts and hubs. It is rates -196 to 1112 degrees Fahrenheit (-127 to 600 degrees C).</p> <p>It is compatible with K-Type Thermocouples and existing K Type Probes. this replaces the T2X3430 Pyrometer Kit.</p>
	<p>T87090 MAG Test Probe</p> <p>Probe can be used to indicate if a solenoid or relay is energized. If the solenoid is electrically energized, the LED will light.</p>
	<p>T67490 - Torque Tester for Click-Style Manual Torque Wrenches 100-1000 N.m</p> <p>This torque tester is designed for use with click type torque wrenches and has one measurement unit - Newton Meters. It features simple operation with only one button on the unit used to zero the display.</p> <p>Operating Range: 100-1000 N.m          Accuracy of + / - 1% over operating range          Comes with traceable calibration certificate          Drive size: 27 mm hex. Supplied with 3/4" square drive socket</p>
	<p>T57911 Electronic Torque Analyzer for Pneumatic and Hydraulic Wrenches 25 to 4000 FT LBS Universal Input Voltage</p> <p>This torque tester has a range of 25-4000 lb.ft. with an accuracy of +-.5% of reading from 20% to 100% of full scale. 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.</p> <p>This tester will accept an input of 1" and 1 1/2" square drives</p>



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#### T54860 Radiator Cap Tester

This tester is equipped with a 30 PSI glycerin 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.

## EMD Governor


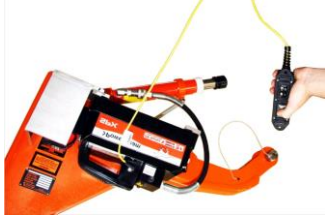







### **T55603 Governor Lifting Tool with Chain Fall for GE FDL and EMD Engines**

This tool is used to remove and install engine governors on both GE and EMD locomotives. A pickup adapter is screwed into the top of the governor, replacing the eye hook and is then slid into the slot at the tip of the lifter. A safety bar is then placed at 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.



## EMD Miscellaneous

	<p><b>T67740 SD70MAC 6 Section Grid Lifter</b></p> <p>The T67740 is used to remove the six section grids on the SD70 MAC locomotive. The lifter attaches directly to the grids and the assembly is lifted by the three pickup points with an overhead lift. The T67740 has a 1,000 Lb rated load.</p>
	<p><b>T57170B "C" Frame Manipulator with Battery Powered Pump</b></p> <p>This is a T57170 "C" Frame that is equipped with a battery powered pump with a hand held remote control instead of a manual pump. A flow restriction valve has also been provided to limit the speed when lowering a load. The pump uses an 18 Volt lithium ion battery and a battery charging station. This can also be added to an existing "C" Frame as a T57170BPCK Battery Powered Conversion Kit and this kit comes with a protective aluminum mounting bracket.</p>
	<p><b>T67240 EMD Large Water Pump Lifter</b></p>
	<p><b>T66590 EMD SD 70 ACE Air Compressor Lifter</b></p>
	<p><b>T66580 EMD SD60 SD70 Blower Puller Stud Set</b></p>
	<p><b>T66510 Aftercooler Lifter for EMD SD 70ACE Locomotives</b></p> <p>This appliance can be used with the T57170 "C" Frame Manipulator.</p>
	<p><b>T66400 EMD Cooling Fan Lifter</b></p>




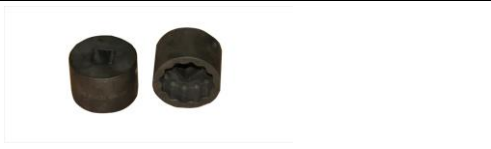

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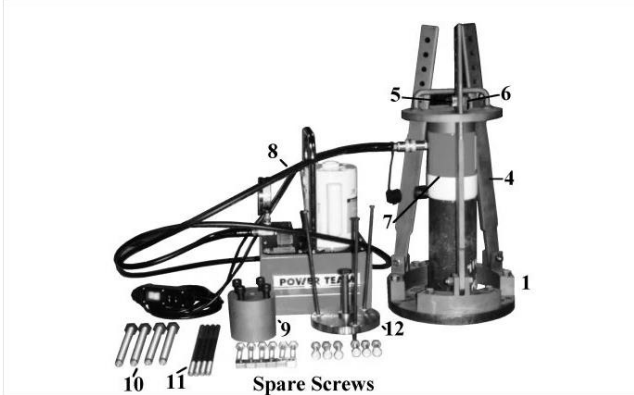


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 A large, industrial-grade lifting attachment, primarily grey with orange accents, designed for use with a C-frame manipulator on an EMD SD70ACE engine.	<p><b>T66340 EMD SD70ACE Aftercooler Lifting Attachment for C Frame Manipulator</b></p>
 A simple, A-frame style battery lifter made of metal with two orange handles for manual operation.	<p><b>T66230 EMD Battery Lifter</b></p>
 An orange, heavy-duty airbox lifter with a circular opening at the top and a base with adjustment points.	<p><b>T66050 EMD Airbox Lifter</b></p>
 A long, orange, L-shaped tool with a red handle, used for straightening plow blades.	<p><b>T65770 Plow Straightener</b></p>
 Two black, cylindrical metal adapters used for tightening flywheel bolts.	<p><b>T65760 EMD Flywheel Bolt Adapter 1/2" Square Drive, 1 1/8" 12 Point</b></p>
 A pair of silver-colored metal wrenches with curved handles and open ends, specifically designed for water pump nuts.	<p><b>T65580 EMD Water Pump Wrench Set</b></p>

	<p><b>T64790 Forklift Appliance Lifter</b></p> <p>This tool was designed to accommodate regular "C" Frame attachments onto a forklift. 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. (Unfortunately forklift not included)</p>
	<p><b>T64590 SD70 Mac Air Compressor Lifter Attachment for C Frame Manipulator</b></p> <p>This lifter is designed to attach to and lift 4 Cylinder Gardner Denver Air Compressors from EMD SD70 MAC Locomotives. It will lift direct drive compressors as well as those with electric motors and is an attachment for the T57170 C-Frame Manipulator. It is a two-piece lifter - the first being a 17" extension arm, while the second is a spreader bar with chainfalls. The spreader bar has a series of attachment points which allows adjustment for a level lift.</p>
	<p><b>T67760 SD 70 MAC Air Compressor Lifter Appliance</b></p> <p>Includes:</p> <ul style="list-style-type: none"><li>(1) T67760S - Spreader</li><li>(1) T64590A - Lifter Arm</li></ul> <p>This set was designed to lift the SD 70 MAC air compressor. The T64590A Arm attaches to the "C" Frame and the T67760S Spreader Arm straddles the length of the 4 cylinder compressor and picks the package level.</p>
	<p><b>T64320 EMD SD70 ACE 4 Section Grid Lifter</b></p>
	<p><b>T64300 EMD Oil Strainer Housing Lifter</b></p>



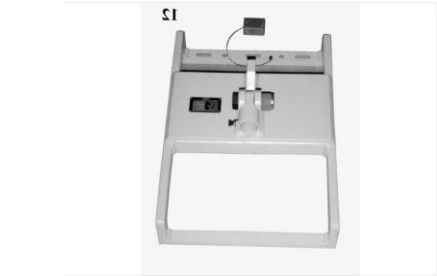

	<b>T64130 EMD 645 710 Aux Gen Power Takeoff Lifter</b>
	<b>T64120 EMD Main Bearing Piston Cooling Oil Pump Lifter</b>
	<b>T63930 EMD Intercooler Lifter</b> <p>This lifter is used for removal/installation of EMD Intercoolers with the engine removed from the cab. Three holes are drilled on the mounting face to accommodate mounting bolts and the load is guided using the knurled handle.</p>
	<b>T63860 EMD Scavenger Oil Pump Lifter</b>
	<b>T62930 EMD Engine Aftercooler Lifter</b> <p>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 installation/removal (the latter two positions use the shackle provided). The knurled handle is used to ease the lift in position. WLL 375 Lbs.</p>
	<b>T62660 Hinge Type EMD Water Pump Lifter</b> <p>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.</p>





	<p><b>T62650 EMD Radiator Cap Remover Installer</b></p>
	<p><b>T59380 Alternator Bearing Housing Puller Kit for EMD AR10 Alternators With 115V Electric Hydraulic Pump</b></p> <p>This kit is used when AR10 Alternator Bearings have to be replaced. Follow OEM Instructions for removal and installation of this bearing.</p> <ul style="list-style-type: none"> <li>T59380-1 Puller Cleat (3 required)</li> <li>T59380-2 Puller Cleat to Bearing Housing Screws (6 req.) Should be replaced after each use</li> <li>T59380-3 Puller Cleat to Arm Screw (3 required)</li> <li>T59380-4 Puller Arm (3 required)</li> <li>T59380-5 Anchor Plate Screw Assembly (3 required)</li> <li>T59380-6 Anchor Plate</li> <li>T59380-7 Ram</li> <li>T59380-8 Hose</li> <li>T59380-9 Spacer with Screws</li> <li>T59380-10 8" Long 3/4"-10 Screws (4 required)</li> <li>T59380-11 Guide Pins (4 required)</li> <li>T59380-12 Puller Plate for Outer Collar with Screws</li> <li>T59380-13 Center Forcing Screw 6" 3/4"-10 (1 required)</li> <li>T59380-14 Anchor Bolts 12" 3/8"-16 Bolts (3 required)</li> </ul> <p>We also off a T59380FS Fastener Set that contains all the spare fasteners that are used in this set for a complete replacement.</p>
	<p><b>59110 EMD Roots Blower Ratchet Wrench Kit (EMD 8177166)</b></p> <p>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.</p>
	<p><b>T58610 EMD Roots Blower Lifting Attachment for Inch C Inch Frame Manipulator (EMD 8072929)</b></p> <p>The T58610 Roots Blower Lifter comes complete with the mounting plate which bolts to the blower, and the "C" Frame arm which connects to the swivel pick up on the mounting plate</p>



	<p><b>T58041 EMD Main Alternator Lifter</b></p> <p>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.</p>
	<p><b>T57660 Lube Oil Cooler Lifting Adapter for C Frame Manipulator EMD Locomotives</b></p> <p>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.</p>
	<p><b>T57561 11' Long Cantilever Lifter Multiple Use Rated At 700 lbs</b></p> <p>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.</p> <p>Lifter is shown here being used with the <a href="#">T55591</a> EMD Water Pump lifter which is sold as a separate item.</p>
	<p><b>57560 8' Long Cantilever Lifter Multiple Use Rated At 375 lbs</b></p> <p>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.</p> <p>Lifter is shown here being used with the <a href="#">T55591</a> EMD Water Pump lifter which is sold as a separate item. Other</p> <p>Other lifters that are commonly used with this are:</p> <ul style="list-style-type: none"> <li>T62660 - EMD Hinged Water Pump Lifter</li> <li>T67240 - EMD Large Water Pump Lifter</li> <li>T63860 - EMD Scavenger Oil Pump Lifter</li> <li>T66380A - GE FDL Water Pump Lifter</li> </ul>



	<p><b>T57374 - Auxiliary Generator Lifting Adapter for "C" Frame Manipulator - for EMD GP's (minus GP-38) and SD's (minus 7's and 9's)</b></p> <p>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.</p>
	<p><b>T57371M GP38 Locomotive Auxiliary Generator Lifting Attachment for C Frame Manipulator</b></p> <p>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.</p>
	<p><b>T57360 Inertial Filter Lifting Adapter for C Frame Manipulator EMD Locomotives</b></p> <p>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.</p> <p>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.</p>
	<p><b>T57280 EMD Aftercooler Core Lifter</b></p>

	<p><b>T57221 Inertial Filter Lifter with Sling for EMD Engines</b></p> <p>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.</p>
	<p><b>T57182 EMD Air Compressor Removal and Installation Adapter for C Frame Manipulator Non SD70 Locomotives</b></p> <p>For use with the "C" Frame Manipulator. This appliance adds to the safety and speed of removing and replacing air compressors in the carbody.</p> <p>NOTE: The pickup point of the "C" Frame for this application is the outboard most hole provided in the top rail as marked.</p>
	<p><b>T57170SC1 Storage Cart for C Frame Manipulator</b></p> <p>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.</p>
	<p><b>T57170PG Extended Width C Frame Manipulator</b></p> <p>This lifter performs the same function as the T57170 "C" Frame Manipulator except that it has an additional reach of 18". This was designed to service full car body width freight locomotives, primarily in Canada.</p> <p>A custom T57170SCPG Storage Cart is also available to accommodate the longer bottom arm (shown below). Rated Load 3,500 Lbs.</p>



**T57170 C Frame Manipulator with Manual Hydraulic Pump**

This tool was originally designed for safe and easy removal and installation of EMD power assemblies, air compressors, and auxiliary generators and has since grown to accommodate over forty different components from the engine. This photo shows the manipulator complete with hydraulic pump, hose and ram without the specialized attachments necessary for the specific applications.

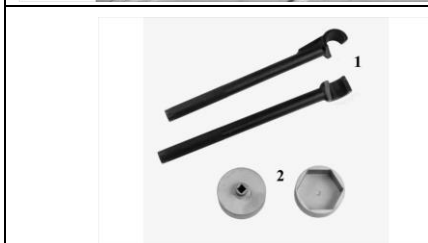
Four pick up points are provided on the top member to aid various applications, and a slip pin with safety clip is provided for ease of moving the clevis from point to point. The T57170 comes with the standard option of a manual pump, but we also offer air powered and battery powered pumps.

Rated Load 3,500 Lbs.



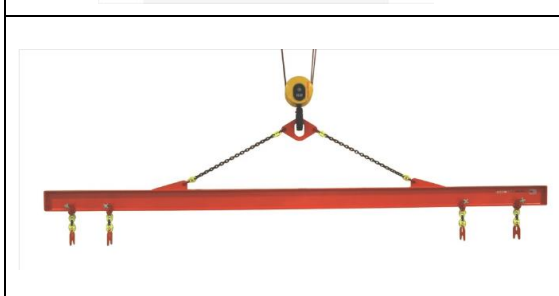
**T57170 APP C Inch Manipulator with Air Powered Pump**

Same lifter as the T57170 "C" Frame 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



**T57120 EMD Brake Slack Adjusting Socket**

The Brake Slack Adjusting Socket (Item #2 Shown Here) 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







**T56092 Radiator Bank Lifter EMD Locomotives**

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.



**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

	<p><b>T55591 EMD Water Pump Lifter</b></p> <p>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.</p>
	<p><b>T55100 DH Brake Valve Lifter Pivot Style with Wheels For EMD Locomotives</b></p> <p>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.</p>
	<p><b>T55100 Brake Valve Lifter Used with a Hoist For EMD Locomotives</b></p> <p>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.</p>
	<p><b>T18500 Dry Abrasive Blast Cleaning Machine</b></p> <p>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 operator's 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</p> <p>Height 95" Depth 66" Width 50"  Export Voltage: 230V 3PH 50CY for blower motor  230V 1PH 50CY for control circuit</p> <p>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.</p> <p>T18500 Complete Blast Cleaning Machine  T18501 Complete Blast 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 Aluminum Oxide - 80 grit for more severe cleaning</p>

**AMECO****AMERICAN EQUIPMENT COMPANY***Exclusive International Distributor for TESCO Tools*[www.ameco.net](http://www.ameco.net) / USA +1 561-997-2080**T 23320 High Pressure Hot Water Cleaners for Inlet Port Cleaning**

These machines deliver up to 210 F water at 2,000 PSI at a rate of 5 gallons per minute. Water is heated by a diesel fuel oil fired burner. These kits include both the special and general purpose wands, necessary hoses and protective clothing. These kits allow 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. These kits are also most useful for other locomotive cleaning jobs.

EMD #	TESCO #	Description
8035775	T10471	115 Volt Valve Seat Reconditioning Kit - Superseded to Air
8041445	T10471	230 Volt Valve Seat Reconditioning Kit - Superseded to Air
8332668	T10471	Air Driven Valve Seat Reconditioning Kit
8194036	T10992	Piston Ring Expander - 567
8194036	T10992	Piston Ring Expander 8 1/2"
8349892	T10992	Piston Ring Expander - 645
8074566	T12270	Deflection Gage
8278929	T16400	Fel-Pro Copper Compound
8377322	T18230	0-500 lb.ft. 3/4" Torque Wrench
9559516	T18961	Torque Wrench Tester
8487487	T19231	Main Bearing Cap Tool
8206869	T22520	250 lb.ft. Torque Wrench
8408219	T50031	Pneumatic Crab Nut Kit
8070872	T50160	EMD Compression Tester Adapter
9533321	T50850	Pinion Puller
8075894	T50970	Heavy Duty Head Puller
8417859	T51082	Piston Holding Tool
8127528	T51570I	TM Pinion Nut Wrench
9551713	T54101	Manual Crab Nut Wrench
8160626	T54581	Piston Retainer
8275379	T54770	Lower Liner Insert Remover/Installer
8243341	T54980S	TM Lead Breaking Wrenches
8052958	T55770S	Fork Rod Support Set
8293333	T56020	EMD 645 Turbocharger Lifter
8158650	T57170 & T57200	Power Assembly Lifter
8523801	T57870	Hydraulic Crab Nut Kit
8474808	T57870C	Hydraulic Main Bearing and Crab Nut Wrench
9532633	T57890	Crankshaft Barring Over Tool
8474806	T57900	Hydraulic Main Bearing Wrench
8474807	T57900	Hydraulic Main Bearing Wrench
9523800	T57900	Hydraulic Main Bearing Wrench
8072929	T58610	Roots Blower Lifter
8177166	T59110	Roots Blower Nut Wrench
8032587	T59350	Compression Release Adapter
8213425	T59900	Cylinder Head and Liner Hoist Set
8417858	T62640	Power Assembly Lifter
8116358	T63700	Cylinder Liner Lifter
8250241	T63710	TM Gear Case Filler Cap Wrench
8417881	T64740	Conn Rod Positioning Clamp
8236718	T65280	Lower Basket Bolt Wrench
8212484	T65580	Water Pump Mounting Bolt Wrench Set
Replace by:	T65620	Pneumatic Barring Tool
8432485	T65630	Governor Injector Link Setting Jack
8339610	T65660	Rack Setting Indicator
8034638	T65670	Injector Timing Gage
8040413	T66680	3 1/2" long Piston Eye Bolt
9333846	T66821	Piston Ring Compressor Guide - 645
8215081	T66840	Multiple Valve Spring Compressor (Hand Crank)
8071720	T67011	Piston Cooling Oil Pipe Gage
8107788	T67020	Minimum Clearance Lash Adjuster
8042773	T67030	Valve Height Checking Tram
8171633	T67070	Piston Carrier Retainer Snap Ring Remover
8041183	T67090	Pry Bar
8191591	T67860	Main Bearing Wrench

8243220	T68300	Lead Holder
8560333		Crankover Tool Air Drive Kit
9553344		Photoelectric Tachometer