

TESCO Tools for GE Evolution Engine



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GE Evolution Tools

- 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. <u>Turbocharger</u>
- 9. Traction Motor
- 10. Test and Control
- 11. Miscellaneous
- 12.GE / TESCO Cross Reference List



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General Maintenance

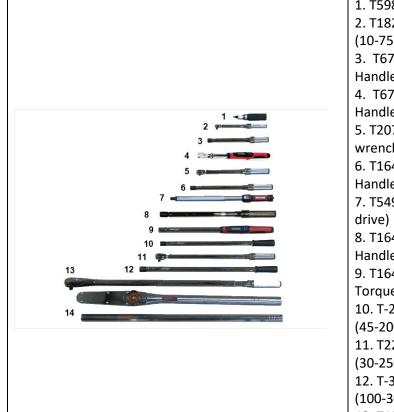
T87620 - Piston and Rod Lifter for GEVO Engine
This lifter is designed to lift GEVO Piston and Rod Assemblies by addressing the top piston ring groove. Also, used to recover failed pistons when pin holes are unable to be accessed.
T85372AL Replacement Leg Set
The T85372AL is a set of two replacement leg assemblies for the older T85372 and T85371 Water Based Intercooler Pullers. These have a 3/4" thread and will not fit in the newer (larger) T85373 legs.
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 is 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.
T65420 Air to Air Heat Exchanger Stand
This stand is custom fabricated to hold an EVO Air to Air Heat Exchange Unit. The stand features forklift slots to move the unloaded fixture into position and the air to air unit is moved with the T65330 Lifter.







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Torque Wrenches for General Maintenance

- 1. T59810 -Torque Screwdriver 4-36 In-LB
- 2. T18220 -3/8" Drive Ratcheting 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 Digital 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. T16492 TECH X Shank (.735") Adjustable Digital Torque Handle (25-250 Ft. lbs)
- 10. T-200T-I Y Shank (.560") Pre-Set Torque Handle (45-200 Ft. lbs)
- 11. T22520 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



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T98111 Electrician's Hand Tool Set With Toolbox For Use on All Locomotives

16 Piece Open End Wrench Set, 1/4" to 1 1/4" 8 Piece Mini Open End Wrench Set, 13/16" to 3/8"

8" Adjustable Wrench

7" Straight Locking Plier

1/4" Drive, 6 Point Sockets, 5/32" to 9/16"

1/4" Drive, Deep 6 Point Sockets, 3/16" - 9/16"

1/4" Drive Ratchet with 2" and 6" Extensions

1/4" Drive Spinner Handle

1/4" Drive Universal Joint

3/8" Drive, 12 Point Sockets, 3/8 to 3/4"

3/8" Drive, Deep 12 Point Sockets, 3/8" to 3/4"

3/8" Drive Universal Sockets, 3/8" to 9/16"

3/8" Drive Ratchet with 3" and 6" Extensions

3/8" Drive Universal Joint

1/2" Drive, 12 Point Sockets, 7/16 to 1 1/4"

1/2" Drive Ratchet With 5" and 10" Extensions

1/2" Drive Impact Universal Joint

1/2" Drive Socket Breaker Bar

Ratcheting Box End Wrench, 3/8" x 7/16"

Ratcheting Box End Wrench, 1/2" x 9/16"

Nut drivers, 3/16 to 3/8"

#1 x 3 Phillips Head Screwdriver

#2 x 4 Phillips Head Screwdriver

#2 x 6 Phillips Head Screwdriver

1/4 x 4 Slotted Screwdriver

5/16 x 6 Slotted Screwdriver

3/16 x 10 Slotted Screwdriver

13 Piece Standard Ball End Hex Key Set

Pin Punch, 3/32" Point, 4/2" Long

Pin Punch, 5/32" Point, 5" Long



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	T87040 GEVO Alternator Lineup Pin
	T87010 GEVO Oil Drain Line Adapter
~	T86890 24mm Oil Pan Bolt Adapter
L	This offset adapter features a 24MM 12 point box end and is driven with a 1/2" square drive.
	T86770 GEVO Pneumatic Barring Over Tool With Remote Control
2	This kit features the T16050EVO barring over motor with a remote-control feature with 20 feet of hose. The replacement hose and hand valve are available
	as an individual part number - T22030HH. 1 T16050EVO Air Motor
	2 T22031 Complete Remote-Control Unit
	T86760 GEVO 12 Cylinder Oil Pump Lifter
	T86690 GE Oil Filter Housing Lifting Adapter for C Frame Manipulator
	This tool was designed to lift both sizes of GE oil filter housings with the door lid closed. The appliance is attached to the T57170 "C" Frame Manipulator, and the single fork reaches through the holes in the frame under the tank. The load can then be manipulated with the hydraulic ram on the "C" Frame Manipulator.



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	T86550 EVO Oil Pump Lifting Adapter
Service of the servic	This plate is attached to an EVO Oil Pump and then lifted with a T80751A Appliance.
	T86400 Water Pressure Lock Out Clamp GEVO
	T86060 Metric Torque Adapter Set Includes 6, 8, 10, 12, 13, 14, 16, 17, 18, 19, 21, 24, 27, 30 & 32 MM.
	T85953 EVO Blanking Tools - works on all EVO engines.
	GEVO Blanking Tool for Cooling System Test Kit This kit consists of the T85953-4 (4 inch) and the T85953-6 (6 inch) blanking caps. The T85953-6 has recently been modified from 5.75" long to 3.625" long to avoid interference issues.
	T85953-6 6" EVO Blanking Tool
	T85953-4 4" EVO Blanking Tool
	T85953-6 6" EVO Blanking Tool



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T85952-5 GEVO 5" Blanking Plate For Cooling **System Test**



T16050EVO GEVO Barring Motor T16491 30-150 Ft. Lb. Torque Wrench T16492TECH Digital Adjustable Torque Wrench

T18230 100-600 Ft. Lb. Torque Wrench

T22520 50-250 Ft. Lb. Torque Wrench T-300T-I Pre Set Torque Handle

T50041 Air Control Kit

T80101 Piston Ring Compressor

T80160 36MMx2 Stud Driver

T80160R 36MMx2 Stud Remover

T80170 45MMx2 Stud Driver

T80170R 45MMx2 Stud Remover

T80192 Piston Ring Expander

T80310V-22 ½ Liner Lifter

T80440-A Piston Retainer

T80481 Fuel Injector and Pump Puller

T80790 Main Bearing Removal Tool

T80850 Main Bearing Cap Nut Runner

T81130 Piston Saddle

T81201 Inlet/Exhaust Retainer for Strongback

T81230 Nozzle Carbon Cleaner

T81253 Crankshaft Deflection Gage Kit

T81310 Injector Alignment Tool

T81330 Injector Sleeve Torquing Tool

T81351 30MM Open End Wrench

T81920 Main Bearing Side Bolt Socket

T85162 Turbo Speed Sensor Tool

T85901 GEVO Tool Cart Complete with Tools

This kit contains the most common maintenance tooling for the EVO engine conveniently stored on a mobile cart.

T85220 Valve Setting Feeler Gage

T85233 Cam Bolt Torque Adapter

T85261 Crankshaft Speed Sensor Torque Wrench

T85281 Fuel Pump Adapter

T85311 Strongback Lifter

T85320 Head Lifter

T85330 Power Assembly Lifter

T85340 Piston and Rod Lifter

T85410 55MM Speed Socket

T85421 Oil Pump Torque Adapter

T85620 Conn Rod Bearing Retainers

T85630 Fuel Pump Retainer

T85650 Barring Arbor

T85702 Exhaust Bellows Adapter

T85730 Piston Ring Scraper

T85760 Compression Tester Set

T85820 Fuel Pump Wrench

T85900C Tool Cart

T85712 Conn Rod Torque Kit

T85170 Turbo Torque Adapter



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T85780 GEVO 16 Cylinder Engine IFE Lifter
T85680 EVO Oil Cooler Lifting Attachment
This lifter was designed to lift the oil coolers on GE locomotives. It features a two-piece design, with the T85680P Plate bolting securely to the oil cooler and the T85681A Arm attaching to the T57170 "C" Frame Manipulator.
T85531 EVO Integrated Front End Lifter
T85421 24MM Oil Pump Torque Adapter
The 24 MM 12 point Oil Pump Adapter has a pronounced offset to accommodate the oil pump bolts. It is used with the T-300T-I pre set Torque Wrench.
T85373 Water Based Intercooler Remover Installer
for GEVO Engines This tool is used to remove and install the water based intercoolers on Evolution Engines. The tool features a robust direct driven roller chain drive to perform the change outs. The direct drive mechanism features a 3/4" female square drive as shown below and drives the installation and removal of the intercooler using a ratchet wrench. Studs are used to thread into the frame to guide the fixture in place and are retained with the nuts provided. A ratcheting box end wrench is included for ease of installation. The plate then bolts onto the exposed intercooler face and is attached to the puller arm for removal and installation.



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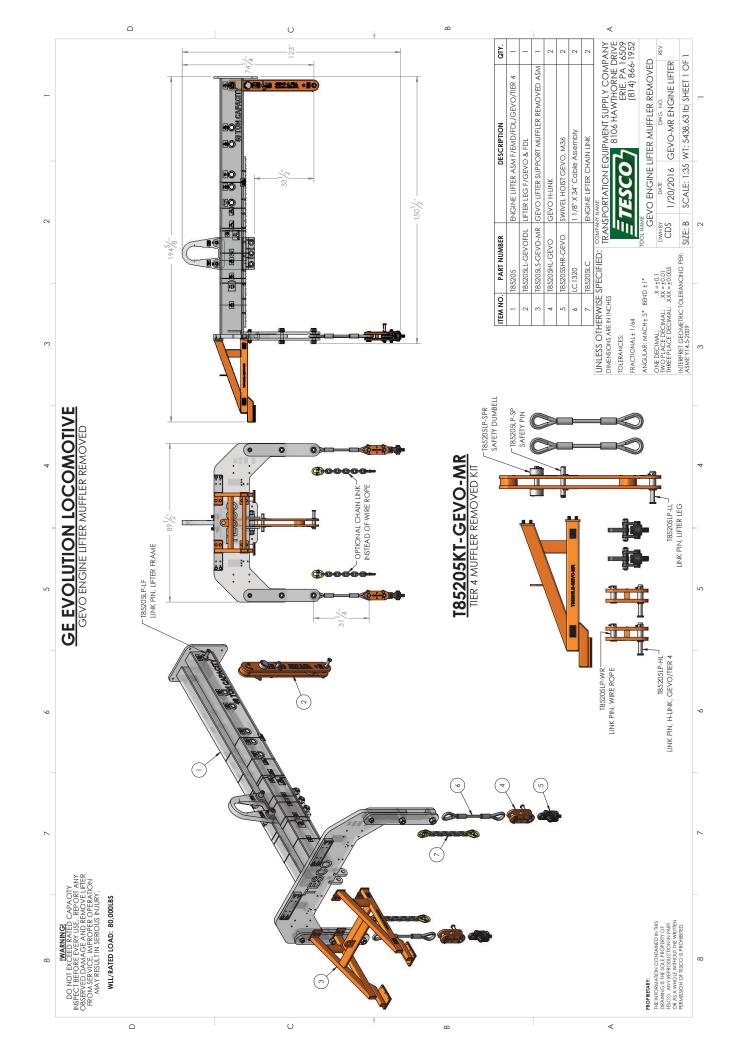
T85205 Universal Engine Lifter

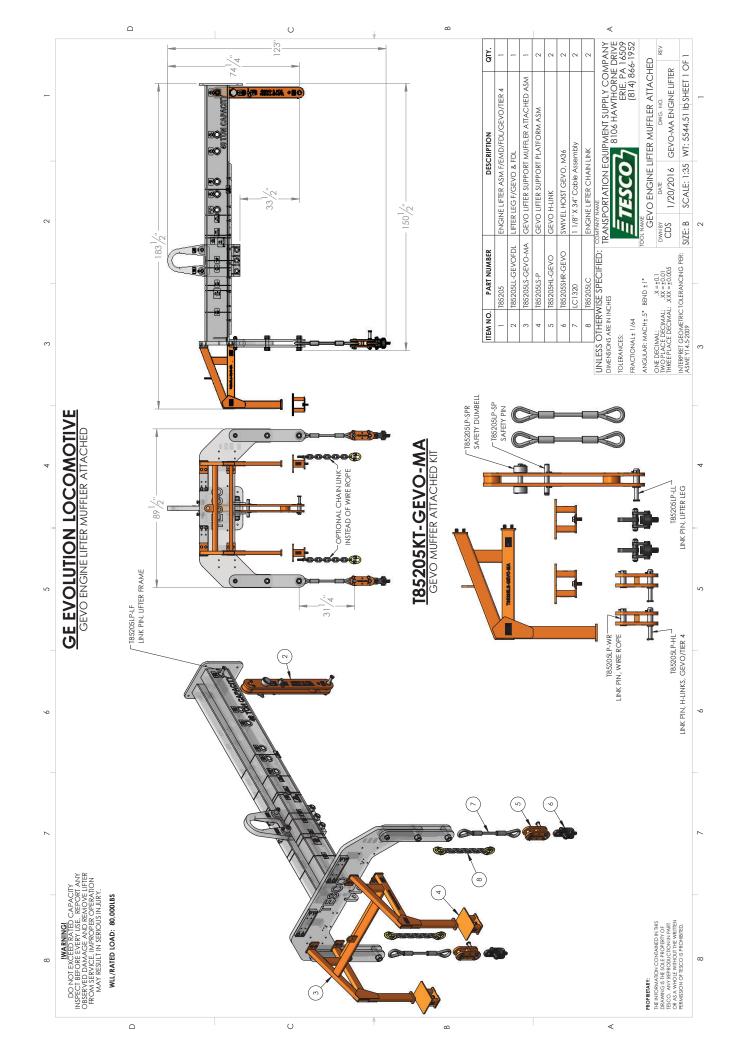
The T85205 Engine Lifter supersedes the previous designs and is a universal lifting platform that will accommodate EMD Engines, GE FDL, Evolution, and Tier 4 Engines with and without the muffler attached. The frame is universal and all that is required for quotation/purchase is to let us know what engines you plan on lifting and in what configuration (muffler / no muffler for EVO / T4).

The .pdf file below shows the individual engine components broken into part numbers and placement on the universal frame.

T85205 Universal Engine Lifter (PDF)

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.







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T85000 Hand Tool Kit for GEVO Locomotives:

Tool Kit Contents

Tool Box

3/8" Drive Socket Set 8-22 MM

3/8" Drive Deep Socket Set 8-22 MM

1/2" Drive Socket Set 10-32 MM

1/2" Drive Deep Socket Set 10-32 MM

Combo Wrench Set 10-24 MM

Combo Wrench 30 MM

Combo Wrench 32 MM

10 MM Box End Adapter

24 MM Box End Adapter

30 MM Box End Adapter

24 MM Open End Adapter

30 MM Open End Adapter

Torque Handle 30-150 Ft. Lbs.

Torque Handle 40-200 Ft. Lbs.

Torque Handle 60-300 Ft. Lbs.

1-1/2" 12 Point Flare Nut Adapter

10 MM Impact Socket

1-1/2" Open End Torque Adapter

1-5/8" 12 Point Flare Nut Wrench

1/2" Drive Indexing Ratchet

1-1/2" Open End Crow Foot Wrench

1/2" Drive, 1-5/8" Speeder Socket

1" Ratchet Flare Nut Wrench

1/2" Drive, 12 MM Offset Adapter

3/8" Drive, 55 MM Speeder

3/4" Drive, 20 MM Impact Socket

3/4" Drive, 24 MM Impact Socket

3/4" Drive, 27 MM Impact Socket

32 MM Handle Speeder

24 MM Offset Torque Adapter

14 MM Cam Bolt Adapter

12 MM Torque Adapter

1/2" Drive Ratchet Adapter

3/8" Ratchet

Main Bearing Side Bolt Socket

20 MM 12 Point Torque Adapter



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T81440 Driver for Alternator Dowels GEVO
T80990-M16 M16 Stud Driver 2.0 pitch
Shown here along with M12 and M14 Stud Drivers
T80990-M14 M14 Stud Driver 2.0 pitch
Shown here along with M12 and M16 stud drivers
T80990-M12 M12 Stud Driver 1.75 pitch
T80950 Water Oil Pump Gear Puller Evolution
Locomotives
T80910 24MM Torque Adapter
This is a 24MM 12 Pt adapter with an X Shank Drive.



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T80902 Metric Hand Tool Kit For GEVO Locomotives

Kit Item	QTY	
3/8" Drive, 6MM Impact Hex Driver	1	
3/8" Drive, 8 MM Impact Hex Driver	1	
3/8" Drive, 10 MM Impact Hex Driver	1	
1/2" Drive, 6 MM Impact Hex Driver	2	
1/2" Drive, 8 MM Impact Hex Driver	2	
1/2" Drive, 10 MM Impact Hex Driver	2	
1/2" Drive, 12 MM Impact Hex Driver	2	
1/2"Drive, 14 MM Impact Hex Driver	2	
3/8" Drive 22 MM 6 Point Impact Socket	2	
3/8" Drive, 12 Point Socket Set, 7-22 MM	1	
1/2" Drive, 12 Point Socket Set, 10-36 MM	1 1	
1/2" Drive, 12 Point Deep Well Socket Set	,	
10-36 MM	1	
1/2" Drive, 6 Point Impact Socket Set,		
10-36 MM	1	
3/8" Drive Socket Breaker Bar	1	
3/8" Drive Ratchet	1	
3/8" Drive Sliding T-Handle	1	
3/8" Drive Impact Universal Joint	1	
1/2" Drive Socket Breaker Bar	1	
1/2" Drive Ratchet	1	
1/2" Drive Sliding T-Handle	1	
1/2" Drive Impact Universal Joint	1	
1/2" Male to 3/4" Female Impact Adapter	2	
1/2" Male to 3/8" Female Impact Adapter	2	
3/4" Male to 1" Female Impact Adapter	2	
Combination Wrench Set, 10MM - 36 MM	1	
2 Pound Soft Face Hammer	1	
2 Pound Ball Peen Hammer	1	
Feeler Gauge Set04 to 1.0 MM	1	
Magnetic Pickup Tool	1	
Mirror	1	



T80752 Water and Oil Pump Appliance

The T80750 Water Pump Appliance is mounted onto the T57170 "C" Frame Manipulator and is used to remove and install HDL Water Pumps. It is now used in conjunction with the $\underline{\text{T80750A}}$ to remove Evolution Water Pumps.



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	T80750GA EVO Water Pump Adapter
· · · · · · · · · · · · · · · · · · ·	This adapter was designed to fit into the Geiske Lightweight Lifting Fixture to address the GE EVO and T4 Water Pumps. This adapter comes with the T80751AB Adapter Block as well.
	T80751A EVO Water Pump Lifting Arm This Arm is used with the T80752 Water Pump "C" Frame Appliance to remove and install Evolution Water Pumps. The mounting block is mounted to the top of the water pump and the lifter interfaces with the ball end to allow the pump to articulate as it is lifted. The mounting plate is retained with a safety latch. The new T80751AB Mounting Block is contoured to match the ring around the threaded hole on top of the Water Pump. This Arm can be used to lift the FDL water pump by using the T80750AB-FDL mounting block.
	The T68080 Torque Rundown Fixture is a fast and portable tester for air motors up to 1,500 lb/ft. The fixture simulates the bolting operation by allowing a soft rundown as opposed to the hard stop of the traditional tester. It is accurate to within 1% of the reading and can also be used to verify torque wrenches. Available Ranges: T68080-250 250 lb/ft T68080-750 750 lb/ft T68080-1500 1,500 lb/ft



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	T68070 AC & DC Traction Motor Gearcase Bolting
	System
	The T68070 is a complete Bolting System for both AC and DC Traction Motor Drive Gearcase Bolts. The system can be preset with proper torque and angle of turn settings for both motors and is accurate and repeatable to within 1 degree. The Air Motor has an integral transducer and angle encoder for precise torque installations, and only operates in the forward direction - the bolts mist be removed with a separate air motor or impact.
	T67510 3/8" Square Drive Digital Torque Handle 5 to
	100 Ft/Lbs
	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).
	T67471 EVO Alternator Stator Lifter
	This tool bolts to the EVO Alternator Stator and is attached to an overhead crane to install/remove the shipping support shims.
	T67430 5-75 Ft. Lb. J Shank Micro Adjustable Wrench
The same of the sa	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.
	T67340 EMD GE U Tube Bearing Grease Plug Adapter



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	T67220 Water Tank Vent Valve Tool
TGZCO ENE PA	
	T66941 Steerable Truck Journal Box "C" Press The T66941 has been upgraded with a 115/230 volt hydraulic pump and a storage stand.
	T65330 Air to Air Heat Exchanger Lifter
8	This lifter is used to remove and install Air to Air Heat Exchangers on Evolution Locomotives.
	T63201 Equipment Blower Lifting Attachment
	This appliance is used to lift the equipment blowers out of GE locomotive cabs. The safety pin is installed through the appliance and locked against the central blower rib. The load is leveled with the "C" Frame Ram. The T63201 is reversable and can be used to address the blower from either side. This attachment can be used with both the T57170 standard C-Frame as well as the T63200SAA extended reach C-Frame. There are two different style pins for this lifter. #1 in the picture is the T63200P Locking Pin for the original T63200 Blower Appliance. #2 is the T63201-7 Locking Pin for the current T63201 Blower Appliance.
	T63200SAA Extended Reach GEVO Traction Motor Blower Lifter with Stand and Appliance This lifter was designed to allow for a longer reach into the locomotive cab in order to remove and install the traction motor blowers on GEVO locomotives. It features the same hydraulic manipulation arm found on our standard T57170 "C" Frame Manipulator. The lifter design also features a counterweight which enables the



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lifter to stay level in both the loaded and unloaded
state. It comes complete with the Blower Motor
Appliance and Storage Stand.
6

Please note that the Blower Lifting Appliance used with this lifter is part number T63201. It is the same adapter used with the standard T57170 C-Frame.

We also make a second attachment for this "C" Frame that can be used for installing and removing air compressors. It is our part number T66780.



T57911 Electronic Torque Analyzer for Pneumatic and Hydraulic Wrenches 25 to 4000 FT LBS Universal Input Voltage

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



T57580 Torque Tester 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.

Includes: 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8" & 1-1/4".



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	T54910 Machinist's 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.
	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.
	T1C404V Adjustable Towns Handle C0 250 FT/LBC V
	T16491X Adjustable Torque Handle 60-250 FT/LBS X Shank
TESCOSI	This is a dual scale micro adjustable X Shank Torque Wrench from 60 to 250 Lb/Ft (70-350 NM). It has an accuracy of +- 4% of indicated value between 20 to 100% of full scale.
	T16050EVO Barring Over Air Motor
	The T16050EVO Barring Over Motor is the same motor used to install and remove FDL Power Assemblies with a different reaction plate. Due to the increased barring drag in Evolution and Tier 4 engines this motor is now used as a barring motor. It comes equipped with a T23830G Reaction Plate.



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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

1 T11431 G-N Metal Assembly Paste (Molycote) 1 can = 17.6 oz.

2 T24890 LOCTITE Threadlocker 1 can = 50 ml

4 T23960 LOCTITE Threadlocker 1 can = 50 ml
5 T16400 Fel-Pro Copper Compound 2 can = 16 oz.
6 T23950 Anti-Seize (9 0z. Brush-top Can)
7 T21630 LUBRIPLATE Petroleum Lubricating Grease 1 can = 14 oz. Multi-purpose.
8 41A330204P8 LUBRIPLATE Petroleum Lubricating Grease 1 can = 14 oz. Cup type lubricant.
9 T16380 Scotch 1/2" Thread Sealant and Lubricant 1 roll = 520



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Cylinder and Head

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	T87400 10MM Upper Water Jumper Adapter
	This is a "Y" shank 10MM torque adapter for the Evolution Series Engine upper water jumpers. The 10MM box end is offset ninety degrees and is in a 12 point configuration.
	T85702TW Thin Wall Exhaust Bellows Adapter
	This tool shares the same body as the standard T85702 Exhaust Bellows Adapter, but the box end has been milled down to a minimum dimension to accommodate bolt heads with minimal surrounding clearance. These adapters will fit in the tight spaces, but removing the material around the box portion will significantly shorten the adapter's service life. It is recommended that anytime a standard T85702 will address a bellows bolt, it should be used.
	T85473GC Slotted EVO Power Assembly Lifter
· Cou	This lifter attaches via four bolts to the exhaust manifold and lifts the EVO Power Assembly vertically and at 22.5 degree. Switching between the two positions is done by simply sliding the pickup point to the proper position and lifting.
	T80840-50 50MM Speeder Socket
	This speeder socket is shown next to the new 50MM EVO Cylinder Head Nut. The traditional 55MM speeder socket fits poorly on the new 50MM nuts, so this tool was developed to address the new nut size. It features a 1/2" square drive.
	T80841 Lightweight 55MM Speeder Socket
	The T80841 is a 55MM Speeder Socket made from aluminum to be a lightweight alternative for speeding EVO Cylinder Head Nuts down. The socket features a 1/2" square drive.



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	T80840 55MM Speeder Socket
	The 55 MM Speeder Socket has a 1/2" square drive to accommodate a ratchet or nut runner when speeding the 55MM EVO Cylinder Nut onto the stud.
	T87261 GE-EVO 12MM X 1.75 Pitch Gage
を を を を を を を を を を を を を を	This Gage was developed to reduce confusion with regard to installing the wrong length bolt on the power assembly.
FRANCE ACCOUNTY	60MM Long Exhaust
	55MM Long Power Assembly - Head to Strongback
CO THE PERSON	50MM Long High-Pressure Fuel Pump Mounting
	Caution: Installing the high-pressure fuel pump with the 60MM long bolt can result with a loose pump, causing fuel leaks.
	T87152 Tier 3 Valve Cover Puller
	This updated design incorporates an adjustable tab to address casting and cover variances, and the tabs are machined at an angle to address the cover as close as possible. The frame itself has two 1/4" plates for additional stability. A large screw and T Handle were added to this version for increased durability and this is also available in a T87152-LSK Kit to upgrade a T87151 tool to a T87152.
	T87120 GEVO Compression Relief Plug Wrench
	This wrench has both 18MM and 22M 12-point sockets
	T87050 GEVO Water Outlet Flange Alignment Tool
8	



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	T86510 EVO Liner Removal Wedge
	T86110 Cylinder Stud Tensioner Assembly Lifter This lifter has two wire ropes that terminate with shackles to attach to the adjustable eye bolts on the Cylinder Stud Tensioning Plate.
	T86001 Rotating EVO Power Assembly Lifter This lifter is attached to the top of an EVO Power Assembly and with minimal effort rotates the assembly from the vertical to the 22.5 degree installation and removal position. The trolley incorporates a T handle brake to lock the lifter in position. This lifter uses the T80731B set for replacement bolts.
44	T85840 Liner Depressor Set
	T85811 Cylinder Liner Lifter for GEVO Engines The Liner Lifter is fitted to the top lip of the EVO liner and is secured by tightening a locking screw. A brass inserts on the jaw ensures that nothing marks the bore. There is a handle provided to help position the liner during installation and removal.

AMECO

AMERICAN EQUIPMENT COMPANY

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T85810K Liner Removal and Lifting Kit GEVO Engines

This kit contains everything needed to remove and install the liner into the strongback. The Aluminum blocks are placed into the liner bore and hydraulically expanded to brace against the piston as the engine is barred. As the piston comes up the liner is pushed out of its seat. The O-ring can then be removed and installed.

The T85810 Liner Lifter can then be installed onto the liner and lifted out of the strongback. Wire brushes and a small vacuum cleaner are included to aid with cleaning.

1. T85810 GEVO Liner Lifter

- 2 Vacuum Cleaner
- 3 Kit Carrying Case
- 4 T85840 Liner Depressor
- 5 T85810K-H10 10' Hydraulic Hose
- 6 T85810P Hydraulic Pump
- 7 T85810AB Aluminum Spreader Blocks
- 8 T85810R Hydraulic Ram
- 9 T85810-A2 Liner Retainer Blocks (3)
- 10 T85810K-P26 Brass Brush
- 11 T85810K-P25 Soft Brush
- 12 Vacuum Crevice Tool



T85760 EVO Compression Tester Set

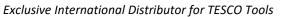
This set is used to test Cylinder Compression on GE EVO Engines. These sets have proven their value to diagnose low compression on individual power assemblies. Readings below 270 PSI may be viewed as low. The set contains eight individual T85750 Compression Testers and a padded hard plastic storage box.

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. 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.

The T85760 Set contains:

- 8 T85750 EVO Compression Tester
- 1 T22711 Storage Box







	I
	T85750 EVO Compression Tester
5 6 7	This is a single compression tester with an adapter to accommodate an EVO Power Assembly.
3—10	1 T50121 Gage 2 T50330 Tee 3 T50341 Nipple 4 T50142 Release Valve 5 T50131 Check Valve 6 T50192 Filter 7 T50171 Socket 10 T85610 EVO Adapter
	T85741 EVO Power Assembly Stand
	This assembly stand was developed so power assemblies can be assembled or disassembled by component locally at the work site. The T85741 is specific for GEVO assemblies. With the addition of the T41220 Adapter Plate this stand will also allow for the assembly and disassembly of Tier 4 power assemblies.
	T85702 Exhaust Bellows Adapter
	The T85702 Adapter is used to torque the Exhaust Manifold Bolts on an Evolution Engine. There is a 1/2" square drive on one end and a 12MM 12 point on the other.
T85610 Adapter	T85610 EVO Compression Tester Adapter Only The T85610 is used with a Compression Tester to check cylinder compression readings on an Evolution engine. The T85610 threads directly into the cylinder compression hole and the Compression Tester is connected.



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	T85410 55MM Speed Socket for EVO Cylinder Nuts
	This is a lightweight aluminum 55MM Speeder Socket for the EVO cylinder hold down nuts. The outer diameter is knurled for a good hand grip and the socket features a 3/8" square drive.
	T85330 EVO Power Assembly Lifter
	The T85330 is used to lift the Evolution Power Assembly either at the 22 1/2-degree installation position or vertically.
	Both the T85320 and the T85330 are distinctly marked according to the application so that they are not used improperly. used improperly.
	T80731B Replacement Bolt Set - (2) 10 MM & (2) 12 MM with hex head milled to 17 MM
	T85320 EVO Cylinder Head Lifter
	The T85320 lifts the Evolution Head at 22 1/2 degrees or vertically via the two pick-up points. The four mounting bolts are captive in the lifter base to ensure retaining both proper bolt grade and size. T80731B Replacement Bolt Set - (2) 10 MM & (2) 12 MM with hex head milled to 17 MM
	T85312 EVO Strongback, Liner and Connecting Rod Lifter
	The T85312 lifts the Evolution Strongback, Head, Liner and Conn Rod package at a 22 1/2 degree installation angle or vertically. Warning: Ensure mounting bolts are torqued and threads in lifter are good. Place out of service for repair any lifter that has defective mounting threads as personal injury could result. Use with care.
000	T85311BK Replacement bolt and washer kit (4 required)
	T82001 Power Assembly Stud Safety Fixture for GEVO Engines
	The T82001 Safety fixture slides over the top two power assembly studs to ensure that the assembly cannot fall down onto a machinist's hands while work is being performed in the cavity.







	T81732 Hydraulic Tensioning Kit for Cylinder and Main Bearing Studs GEVO Engines
	The T81732 consists of the tools needed to tension and remove the Cylinder Stud Nuts and Main Bearings on Evolution Engines. This kit is shown with the compact pump option (standard), and the larger mobile pump is also available. The cylinder stud nut tensioner features a new plate design which allows this tensioner to be used on all current GEVO Engines as well as the new Tier 3 High Pressure Common Rail Fuel System Engines. The pump is air over hydraulic and the kit comes in a mobile storage container. Instructions are included. NOTE: If you currently have a T81731 Tensioner, it can be modified to the new design here at TESCO.
	T81280 55MM Thin Wall Deep Socket
	This 55 MM deep well 6 point socket has a 1" square drive and is used to speed the EVO cylinder head nuts onto the studs. The outside diameter has also been machined for clearance.
	T81201 Inlet and Exhaust Roller Retainer for GEVO Engines T81201 Inlet and Exhaust Roller Retainer The retainer body is screwed into the mating thread in the strongback by turning the knurled portion by hand. The roller retainer bar can then be set using s 3/16" hex key.
<u></u>	T80310V-22.5 Vertical and 22.5 Degree Pickup Liner Lifter for GEVO Engines The T80310V-22.5 accommodates vertical as well as 22.5 degree pick-up. The top and bottom plate sandwich the liner and the nut secures the package for lifting.



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T80160R Stud Remover 36 MM for GEVO Cylinder Studs
The T801060 and T80160R are used to remove and install the 36 MM Cylinder Studs. In addition to the hex milled into the bodies, an additional hex is milled into the removable top piece so that the driver/remover can be removed even when it is tight on the stud.
T80160 Stud Driver 36 MM for GEVO Cylinder Studs
The T801060 and T80160R are used to remove and install the 36 MM Cylinder Studs. In addition to the hex milled into the bodies, an additional hex is milled into the removable top piece so that the driver/remover can be removed even when it is tight on the stud.
T80120 Cylinder Head Lifter Horizontal GEVO



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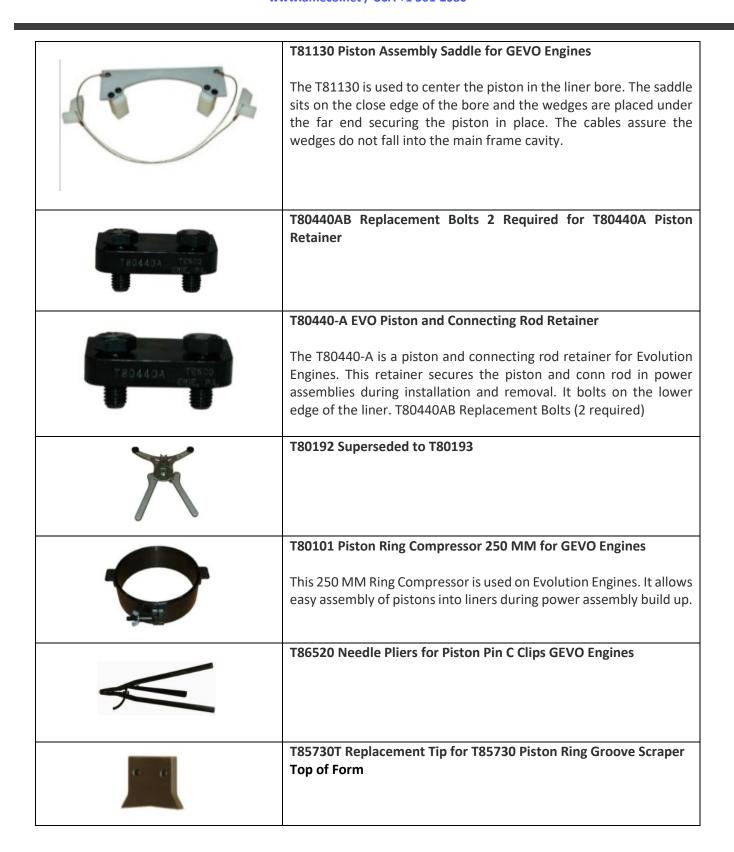
Pistons and Valves

T87620 - Piston and Rod Lifter for GEVO Engine
This lifter is designed to lift GEVO Piston and Rod Assemblies by addressing the top piston ring groove. Also, used to recover failed pistons when pin holes are unable to be accessed.
T80193 250MM Piston Ring Expander
This 250 MM Piston Ring Compressor allows for installation and removal of EVO piston rings. The new T80193 version incorporates a sturdy yet lightweight handle and a precision machined guide for and easy insertion and handling of the 250MM EVO piston rings.
T85730 Piston Ring Groove Scraper for HDL and GEVO Engines
The piston ring groove scraper is used to remove carbon deposits from Evolution piston ring grooves. The tips can be replaced by driving out the two roll pins and installing a new insert into the lightweight aluminum handle. The replacement tips are part number T85730T.
 T85340 Piston and Rod Lifter for GEVO Engines
The T85340 Piston and Connecting Rod Lifter features a lock in both the open and closed positions. The release lever is pulled to release the lock.
T81290 GEVO Valve Spring Compressor





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T80441GC Piston Rod Retainer



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Main Bearing and Crankshaft

T81255 Web Deflection Gage Assembly w/Storage Box
The web deflection gage is also available in a bare configuration if a full complement of checking mandrels is not required. This set contains the web deflection gage assembly with the counterweight and spring ready to use with any mandrel, and a padded storage case. There are four individual mandrels for GE Engines: T81252-2A Evolution Mandrel T81252-2B FDL Mandrel T81252-2C Tier 4 Mandrel for Nitride Crankshaft T81252-2D Tier 4 Mandrel for Induction Hardened Crankshaft
 T87080K Crankcase Pressure Test Kit
To you or annease i ressure reservice
 T86770 GEVO Pneumatic Barring Over Tool With Remote Control
This kit features the T16050EVO barring over motor with a remote control feature with 20 feet of hose. The replacement hose and hand valve are available as an individual part number - T22030HH.
1 T16050 EVO Air Motor
2 T22031 Complete Remote Control Unit
T85850 Alternator Coupling Inch Dirty 30 Inch Bolt Speeder Socket 3 8 Inch Square Drive This speeder is used on the "dirty 30" alternator coupling bolts. The speeder has a 3/8" square drive and a knurled outer diameter for easy handling.
T85650 Barring Arbor for GEVO Engines The T85650 Barring Arbor is needed in the new Evolution Engines that are not equipped with a barring gear box. The arbor is installed into the gear cover and a T22040 or T16050EVO Barring Over Tool is used to power the arbor. Caution: When the barring operation is complete the barring arbor must be removed and the gear cover reassembled. The shear pin used with this barring arbor is the same pin used with the GE FDL arbor. Part number for the shear pin is T58440P.





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	T85590 EVO Right Side Barring Over Tool
	T85440B EVO Crankshaft Flange Lifter
	T85291-2 GEVO Speed Sensor Alignment Tool Straight Sided Slot
	T85291-1 GEVO Speed Sensor Alignment Tool Tapered
7	The T85261 features a slot in the 1 3/16" deep well that allows the sensor wire to escape. The wire can be wrapped around the plastic spool and retained with the Velcro straps. The extension has a 3/8" square drive. The tool measures just under 12" and the extension is free to be removed from the socket.
7	T85261 EVO Crankshaft Speed Sensor Torque Wrench Set This set consists of the T85261S Crankshaft Speed Sensor Socket along with a 3/8" square drive ratcheting torque wrench pre-set to 80 Nm.

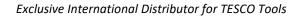


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	T85112 Main Bearing Frame Spreader Tool Without Pump This spreader aids the installation and removal of EVO main bearing caps. In cases that the cap does not drop when the main bearing stud nuts and side bolts are released, a slight spreading of the jaw is needed. The spreader is placed on the lower edge of the main frame and a hydraulic pump is connected. Pump and hose not included. This product is available in the T85111 Kit which consists of this spreader and the T85110P pump.
	T85111 EVO Frame Spreader with Pump
	This spreader aids the installation and removal of EVO main bearing caps. In cases that the cap does not drop when the main bearing stud nuts and side bolts are released, a slight spreading of the jaw is needed. The spreader is placed on the lower edge of the main frame and a hydraulic pump is connected. Consists of T85112 Main Bearing Spreader and T85110P pump.
	T85051 EVO Main Bearing Cap and Tensioner Cylinder Lifter Kit
4 7 7 9	This kit consists of tooling necessary to lift and lower both the main bearing caps as well as the hydraulic main bearing stud tensioner cylinders on GEVO engines. The kit consists of the following: 1 T85050SL Main Hydraulic Jack 2 T85050CL Auxiliary Jack / Cap Lifter 3 T85050TL Tensioner Lifting Bracket 4 T85050-9 Arm for #7 and #9 Bearing 5 T85050W Main Bearing Tensioner Wrench 6 T80830 Main Bearing Tut Wrench 7 T85051PA Pump Assembly 8 T85051HA Hose Assembly (4 Included) 9 T85051SB Storage Box
4	T85050W Main Bearing Tensioner Cylinder Wrench The T85050W features a 2 1/2" open end and is used to turn the hydraulic main bearing tensioning cylinders.
•	







	T85050TL Tensioner Lifting Bracket
	This bracket rests on top of the T85050CL ram end and the tensioner cones are placed into the semi-circle holders for movement into position to tension/remove the stud.
	T85050SL Main Hydraulic Jack
ž.	This is the main column for the T85051 Kit and it threads onto the main bearing stud adjacent to the cap to be addressed. There are hydraulic connections that feed back to the pump as well as connections for the T85050CL Auxiliary Arm.
	T85050CL Auxiliary Cap Lifter
	As part of the T85051 Kit, this adapter arm connects to the T85050SL and is used to raise and lower main bearing caps as well as tensioner cones into position.
	T85050-9 Adapter for 7th and 9th Main Bearing Position
	This adapter to the T85051 GEVO Main Bearing Cap Lifter is used where the internal oil baffles interfere with access to the 7th and 9th bearing caps.
_	T81920 EVO Main Bearing Cap Side Bolt Socket
	This is a 1" Square Drive 27MM 12 Point Socket used with the T81052 Main Bearing Side Bolt Torque Kit to install and remove the EVO Main Bearing Side Bolts.
	T81731MB Hydraulic Tensioning Kit for Main Bearing Studs
L. L.	This kit contains two EVO main bearing tensioner pods, two high pressure hydraulic hoses, a two-way adapter and quick disconnect swivel connections. This will work with any style tensioner pump from the T81732 Kits, but there is no pump included in the T81731MB



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T81380 Main Bearing Sensor Torque Adapter for GEVO Engines



T81254 Crankshaft Deflection Gauge Kit

This gage is used to determine crankshaft deflection during alternator installation on Evolution, and FDL, and Tier 4 engines. Simply attach the proper length mandrel onto the gage to correspond with the engine being serviced.

Directly below the gage is a counterweight so that when the gage is positioned between the webs, it will automatically face downward displaying the gage face. The kit comes complete in a compact storage box for added protection.

The dial indicator has .0001" gradations.

Replacement parts are available:

T81252-2A Evolution Mandrel

T81252-2B FDL Mandrel

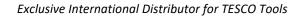
T81252-2C Tier 4 Mandrel for Nitride Crankshaft

T81252-2D Tier 4 Mandrel for Induction Hardened Crankshaft

This kit and mandrels come with custom ground carbide points (T81252SP - Sharp Points) which thread into both the mandrel and opposing indicator stem, but can also be substituted for the rounded points (T81252T).

Caution: The dial indicator reads in .0001" increments and is very delicate. This must be treated as an precision instrument otherwise it will break.

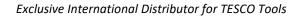






	T81052 Pneumatic Torque Kit for Main Bearing Side Bolts
	This kit was designed to provide precise torque to EVO and Tier 4 Main Bearing Side Bolts, ensuring proper squeeze of the joint.
-3	1 T20001 Air Motor - 1" Square Drive rated for 300 to 1,450 Lb/Ft
	2 T81050RA Reaction Arm
1 4	3 T50041 Air Control Kit
5	4 T81920 27MM Side Bolt Socket 5 T40300 30MM Side Bolt Socket
2—	140300 30WW SIDE BOIL SOCKEL
	T80850 Main Bearing Cap Nut Runner Tool
	This 3/8" square drive tool engages the main bearing cap nut utilizing two balls 180 degrees apart. The tool is applied to the nut by pulling the knurled collar back allowing the balls to recede into the tool. By turning the tool these balls engage the nut and the collar can be released locking the tool to the cap nut. The tool can then be turned by using a 3/8" palm ratchet.
()	T80830 Main Bearing Nut Wrench
7	The T80830 features a 70 MM open end and is used to turn the main bearing nuts.
09/031	T80790 Main Bearing Shell Remover for GEVO Engines
	This brass insert is inserted into the crankshaft oil hole and the engine is slowly barred to remove the top main bearing shell.
R	T80340 Main Bearing Cap Lifter
0	T80250 Vibration Damper Lifter
	This lifter is designed to grip and lift an Evolution Vibration Damper Lifter. The machined grooves capture the edge of the damper and the thumbscrew is tightened to hold the locking plate during the lift.







	T80240 Barring Over Tool for Left Side of Engine
	TOOL TO BUTTING OVER TOOL TO LETT SIDE OF ENGINE
	T80210 Intermediate Gear Lifter
	T80170R 45MM Stud Remover
	The T80170 and T80170R are used to install and remove the 45 MM X 2 main bearing studs. After the tool is finished installing/removing stud by using the large hex pattern on the body, the tool is removed by turning the hex on the top in the opposite direction.
	T80170 45MM Stud Driver
	The T80170 and T80170R are used to install and remove the 45 MM X 2 main bearing studs. After the tool is finished installing/removing stud by using the large hex pattern on the body, the tool is removed by turning the hex on the top in the opposite direction.
	T23830G GEVO Reaction Plate
9	This reaction plate is used with the T16050 Air Motor. It interfaces with the barring arbor.



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T16050EVO Barring Over Air Motor

The T16050EVO Barring Over Motor is the same motor used to install and remove FDL Power Assemblies with a different reaction plate. Due to the increased barring drag in Evolution and Tier 4 engines this motor is now used as a barring motor. It comes equipped with a T23830G Reaction Plate.



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Connecting Rods

	T85712S-3/4 Conn Rod Socket
	This is a 24MM 12-point Sweep Socket that is used for tightening Evolution Connecting Rod Bolts. It has a 3/4" square drive and is also available with a 1" square drive - T85712S.
	T86741 Connecting Rod Cap Lifter for EVO and Tier 4
	This lifter is used for lifting GEVO and Tier 4 connecting rod caps and features a pan which provides better support to the cap while it is being lifted. An eye was added for connecting to an overhead crane to aid in balancing the lifter.
	In addition, the pins that interface with the rod cap have been shortened to allow for easier access into the engine.
	T85712 Connecting Rod Torque Kit With 25 1 Torque Verifier For GEVO Engines
-3 2	This kit contains a 25:1 verifier with anti-wrap up feature, a custom reaction arm and a 24MM Sweep Socket to apply the pre-torque and angle of turn per OEM instructions to Evolution Connecting Rod Bolts. After the pre-torque is applied the machinist can mark a position on the conn rod to line up with the green line on the socket and then apply torque until the hash mark lines up with the red line on the socket.
	1 T85712V 25:1 Verifier with Anti Wrap-up Feature 2 T85712RA Reaction Arm 3 T85712S 24MM Sweep Socket
	T85620 Connecting Rod Bearing Retainer Set for GEVO Engines
To the second	This set is used to retain and position the connecting rod upper bearing shell on evolution engines. The two different retainers are required due to clearance constraints. One tool can be tightened by hand using the knurled knob, while the other needs a 1/4" hex wrench.



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Camshaft

	T87200 Cam Roller Retaining Plug
	This tool retains the cam rollers on EVO and Tier 4 engines in the PA positions not accessible for T81201 retainers. The long shaft is guided through the strongback and bottomed in the cam roller cup. The handle threads are tightened squeezing the "O" ring to retain the roller. The adjustable stop is positioned so the finger grips the edge of the strongback and prevents the tool and roller from falling through. This tool will retain a single roller so two will be required per power assembly.
	T85602 Large Cam Bearing Removal and Installation Tool for GEVO and Tier 4 Engines
This tool is used to install and remove the large camshaft be GEVO and Tier 4 engines. For bare frames a starter spacer included to start the installation process. This kit is normally with a T85601B Double Acting Ram, but only one hose is at the single acting ram. The T85602SB (ref. 5) is a small diameter mandrel that can be install large bearings by anchoring in the small diameter T85602PC (ref. 4) is a pushing collar that is used to remove bearings.	
	1 T22810 Hydraulic Ram w/Elbow
	2 T85603LBI Large Bearing Installation Mandrel 3 T85603LBR Large Bearing Reaction Mandrel
	4 T85602PC Pushing Collar
	5 T85602SB Small Bearing Mandrel
	6 T85602SS Starter Spacer
	T85601B Double Acting Hydraulic Pump w/Hose and Couplers The T85601B consists of a double acting 2 Speed, 10,000 PSI hydraulic pump, two hydraulic hoses and quick connect couplers for use in the T85462K Kit.



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	T85462K Cam Bearing Installation and Removal Kit for GEVO and Tier
	4 Engines
	The T85462K Cam Bearing Installation and Removal Kit includes all the
	items required for GEVO and Tier 4 Engines.
	The T85601B Pump and Hose Kit (ref.3) powers both installation and
	removal kits (ref. 1 & 2).
B B	
13 A A B B B B B B B B B B B B B B B B B	the T85601 (ref. 2) kit is used to install and remove the large bearings
	that populate the main frame. For bare frames a starter spacer (ref. A)
	is included to start the installation process and the pump kit only uses
	one hose to power the single acting ram.
	Reference B is a small diameter mandrel that can be used to install the
	large bearings by anchoring in the small diameter bore. Reference C is
	a pushing collar that is used to remove the large bearings.
	The T85462 (ref. 1) is used to install and remove the small bearings.
	Both hoses of the pump kit are used to power the double acting ram.
	T85462 Small Cam Bearing Removal and Installation Tool for GEVO
	and Tier 4 Engines
	4.14 1.61 1 2.18.1163
	This assembly is used to install and remove the small camshaft
— · · ·	bearings on GEVO and Tier 4 engines. It requires the T85601B Double
	Acting Pump to power the cylinder.
	T85233 EVO Cam Bolt Adapter
	163233 EVO Calli Bolt Adaptei
_	This 14 MM 12 point adapter is used to torque the Cam Bolts on
	Evolution Engines. It is used with the T16492TECH Adjustable X Shank
A 12	Torque Wrench.
	This adoptor now has a click length of 4.5" as no conversions are
	This adapter now has a click length of 4.5" so no conversions are
	required when using with the above torque wrench.
	T85020 Idler Gear Lifter for GEVO Engines
	The T85020 attaches and lifts the Evolution idler gear. The lifting jaw
	can be rotated 360 degrees to accommodate left and right cam
	sections and lock into proper position by using the locking pin. The jaw
 	is opened and closed by turning a flange nut.





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	T85010 Camshaft Section Lifter for GEVO Engines
	This lifter aids in the installation, timing and removal of Evolution cam sections. The mounting surface has nylon pads to protect the cams, and has Velcro straps to retain the section during transportation.
	T81390 Cam Segment Alignment Pin for GEVO Engines
S	T81120 Cam Bearing Remover GEVO
	T80350 Cam Bearing Positioner GEVO



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Evolution Fuel Injection

	T86500-5 Fuel Injector Washer Installation Adapter
	This adapter is used to install a copper washer onto an EVO Fuel Injector. The face is machined to surround the washer and a groove is machined inside to help seat the new copper washer as it is lightly struck on the flat striking surface with a soft hammer. T86840-11 1/2" Drive Ratcheting Adapter X Shank
	T86840-8 Toolbox Toolbox for T86842 Fuel Injection Tooling Kit. This box comes with foam inserts and a hard plastic case.
1	T86840-7 6MM Long Hex Driver 6MM Long Hex Driver, 3/8" Drive
	T86840-6 5MM Hex Driver 5MM Hex Driver, 3/8" Drive
	T86840-5 36MM Deep Well Socket 36MM Deep Well Socket, 1/2" Drive
The state of the s	T86840-3 10MM Socket 10MM 12 Point Socket, 3/8" Drive





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	T86840-2 6 MM Hex Driver
	6MM Hex Driver, 3/8" Drive
	T86840-1 Extension
	3" Extension for 3/8" Drive Socket.
	T86840-4 22 MM Deep Well Socket
	22MM Deep Well Socket, 1/2" Drive
ے	T87110 EVO Injector Alignment Tool
	Top of Form
	T87090 MAG Test Probe
	Probe can be used to indicate if a solenoid or relay is energized. If the solenoid is electrically energized, the LED will light.
	T86980 GEVO Injector Sleeve Remover
}	This tool is used to pull out the fuel injector sleeve after it has been unscrewed using tool T81330
	T86920 GEVO Injector Lever Action Puller
	This lightweight tool has been designed to remove the fuel injectors on GEVO engines through the use of a lever action.







	T86860 Tier 3 Fuel Injector Puller Tool
→	
	T86842 High Pressure Common Rail Fuel System Changeover Kit
15 19 20 21	This kit contains all the common tools for the Tier 3 common rail fuel system in a portable hard plastic box.
	1 T86840-1 3" Extension 3/8" Drive 2 T86840-2 6MM Hex Drive, 3/8" Drive 3 T86840-3 10MM 12 Point Socket, 3/8" Drive 4 T86840-4 22MM Deep Well Socket, 3/8" Drive 5 T86840-5 36MM Deep Well Socket, 1/2" Drive 6 T86840-6 5MM Hex Drive, 3/8" Drive 7 T86840-7 6MM Long Hex Drive, 3/8" Drive 8 T86840-8 Toolbox 9 T16491X 30-250 Ft-lbs Adjustable, X Shank Torque Wrench 10 T18220 5-75 Ft-lbs Adjustable Torque Wrench, 3/8" Ratchet 11 T86840-11 X Shank to 1/2" Ratchet Adapter 12 T86790 Injector Alignment Tool 13 T86860 Fuel Injector Puller Tool 14 T86800 Injector Alignment Wrench 15 T86810 Fuel Line Blocks 16 T86831 Side Pipe Crow's Foot Wrench 17 T85702-16 16 MM 12 point, 1/2" Drive Wrench 18 T17801MOE-41XL 41MM Open End Adapter 19 T17801MOE-27XL 27MM Open End Adapter 20 T85233 14MM Cam Bolt Adapter 21 T85820 12MM 12 Point Socket, 1/2" Drive
	T86831 32MM Modified Crow's Foot Wrench for T86840 HPCR Fuel Kit





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	T86820 EVO Fuel Pump Torque Kit
	This kit includes all the tools required to change out a GEVO fuel pump.
	1 T80481 Injector Tip and Pump Puller 2 T81310 Fuel Injector Alignment Tool 3 T16491 150 Ft. Lb Torque Wrench 4 T85820 Fuel Pump Base Bolt Adapter 5 T57141 1 1/2" Low Pressure Fuel Line Adapter 6 T81351 30mm High Pressure Fuel Line Adapter 7 T15942 7/8" Open End Adapter 8 3/8" Square Drive, 100 Ft. Lb Flex Ratchet Torque Wrench 9 10mm 3/8" Drive 12 Point Socket 12mm 3/8" Drive 12 Point Socket 24mm 3/8" Drive 12 Point Socket
	10 Tool Box
	T86810 Set of 6 Fuel Line Blocks for High Pressure Common Rail Tier 3 Fuel Kit
	T86800 Tier 3 Fuel Injector Alignment Wrench
	T86790 Injector Alignment Tool for HPCR Fuel Kit
	T86700 GEVO Fuel Reservoir Mounting Wrench
0	Adapter to be used with T16491 Torque Wrench.
	T86630 AL GEVO Aluminum Manual Fuel Injector Nozzle Remover



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	T86501 Fuel Injector Washer Changeout Kit GEVO Engines This kit is used to remove the copper washer from EVO Fuel Injectors. The Kit includes a soft hammer, a clamp to hold the inverted injector and two notched removal adapters. The T86500-5 Installation adapter is available separately.
	T86380 14MM Injector Adapter
1 T	This is a 1/2" square drive 14MM hex adapter for the EVO high pressure injector.
	T86240 Fuel System Crowfoot Wrench 1 1/2" 12 Point
	This is a 1 1/2" crowfoot adapter with a 1/2" square drive.
	T85910 Fuel Injector Sleeve Extraction Tool Set for GEVO Engines
	1 T85910-1 Puller Assembly 2 T85910-2 EZ Out Assembly 3 T85910-3 Torque Multiplier 4 T85910-4 Case 5 T85910-5 Breaker Bar 6 T81330 Injector Sleeve Torquing Tool 7 T85910-7 3/4" - 10 Left Hand Nuts (5) 8 T85910-8 1/2" F to 3/4" Male Adapter 9 T85910-9 EZ Out 10 T85910-10 Wire Brushes (3) 11 T85910-11 Plastic Brush 12 T85910-12 Crank brush assembly 13 T85910-13 Brass Washer Pick 14 T85910-14 Spare brush for crank assembly
	T85820 EVO Fuel Pump Base Bolt Wrench
	This is a 1/2" square drive 12MM 12 point adapter for the EVO fuel pump base bolts.





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Г	T85702-16 Marine Tier 3 Nozzle Adapter 16MM
L	This is a 16MM 1/2" Drive Torque Adapter for use on marine engines as well as Tier 3 EVO engines.
	T85630 High Pressure Fuel Pump Roller Retainer for GEVO Engines
	The roller retainer fits into the retainer slot in the strongback to hold up the fuel roller.
	T85281 12mm Fuel Pump Torque Adapter
	This is a 12MM 12 point EVO fuel pump adapter to be used with the Y shank T16491 Torque Wrench.
	T85220 Valve Setting Feeler Gages for Inlet 45MM and Exhaust 95MM on GEVO Engines
	The gage has a .45 MM and a .95 MM tip attached to the knurled handle. Replacement tips are available.
	The T85220S replacement tip set includes one .45 MM and one .95 MM replacement tip.
	T81830 Fuel Pump Installation Tool for GEVO Engines
A A	T81351 30MM High Pressure Fuel Line Adapter
To a fine of the second	The 30 MM open end adapter is used to remove and install EVO high pressure fuel lines. It is used with the Y shank T16491 Torque Wrench.





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	T81330 Fuel Injector Sleeve Torquing Tool for GEVO Engines The T81330 Injector Sleeve Torquing Tool has a removable 1/2" square drive extension and 4 machined tangs that fit into the injector sleeve for installation and removal. To aid in removal of the sleeve once the threads are disengaged - use tool T86980 T81310 Fuel Injector Alignment Tool for GEVO Engines This tool is used to align the fuel injectors on Evolution Engines. The extension is milled out to profile the injector face.
	T81230 Nozzle Carbon Cleaner for GEVO Engines
	T80781 36mm Open End Adapter This is a 36MM open end adapter that fits in the X shank T16491X torque wrench.
4	T80770 Fuel Line Torque Wrench Adapter This is a 1 1/2" Open End Adapter with a 1/2" Square Drive.
	T80481 Fuel Injector and Fuel Pump Puller Slide Hammer Style for GEVO Engines The Evolution Nozzle Knocker uses the same body as the T18560 knocker with different adapters. The T80481 comes with a T80480N Adapter that threads directly into the nozzle and a T80480P tip used to remove stubborn fuel pumps.

These adapters are also available separately.





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T80480P Replacement Fuel Pump Removal Tip for T80481 GEVO Knocker
T80480N Injector Tip for Use in T80481 GEVO Nozzle Knocker



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Turbocharger

	This kit contains all the tools needed to test the GE Turbocharger Labyrinth Seal. A complete Bill of Material is available here for viewing.
	T87160 GEVO Labyrinth Seal Assembly Lifter
	T86782 Ruggedized Telescoping EVO Turbocharger Rotor Turning Tool The tubing wall thickness has been increased 50%, a solid aluminum handle incorporated, and a key clutch part improved (heat treated alloy steel). This tool will provide improved service life over prior models.
	T85170-19 Turbocharger to Exhaust Manifold Adapter 19MM This is a 19MM 12 point torque adapter for the EVO turbo to exhaust manifold bolts. It features a 3/4" square drive and angle milled into the 19MM face for clearance around the bolt.
- Testing -	his 20 MM 12 point adapter is driven by a 3/4" square drive input and is used to install/remove EVO turbocharger mounting bolts. It is used with a T18230 Torque Wrench. (Drive centers are 4")



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T85162 Turbo Speed Sensor Installation Torque Kit for GEVO Engines This kit consists of a T85162S extension with a slot milled into the side to accommodate the sensor wires, a T85162W 24 lb/ft preset torque handle and a T85162RA 3/8" square drive ratcheting adapter.
T81370 16MM Inside Turbo Foot Bolt Adapter This adapter features a 1/2" square drive and two 16MM 12 point box ends to remove or install the inner EVO Turbo Foot Bolts.
T81360 EVO Turbo Strut Lock Nut Adapter This is a 2 3/16" Open End Torque Adapter for the GEVO Turbo Strut Lock Nut.
T59890 Low Profile Turbocharger Lifter for GE Evolution Engines This lifter is used to remove and install turbochargers on EVO engines. T13791- Replacement Bolts 1 3/4" Long T59890B -Replacement Bolts 3" Long (Used to bolt through adapter plate) T59890P- Replacement Anchor Pin



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Traction Motor

	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.
	T65971 Traction Motor Dog Bone Guide



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Test and Control

	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 is 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.
•	T87090 MAG Test Probe
	Probe can be used to indicate if a solenoid or relay is energized. If the solenoid is electrically energized, the LED will light.
Market and the second s	T86670 High Pressure Fuel Pump Light
	This light is connected to the high pressure fuel pump to determine if the connection is powered. The light uses a replaceable 44 Watt bulb.
	T70102 Digital Multimeter with Case and Leads 1500 Volt DC Voltage 200mv - 1500v DC 200mv - 1000v AC Complete with case and leads



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T67490 - Torque Tester for Click-Style Manual Torque Wrenches 100- 1000 N.m
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. 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
T64842 Universal Capacitor Discharge Device for All GE AC Locomotives
This set consists of one manual discharge assembly, seven individual shortening assemblies and a portable storage box. The manual discharge assembly has six 5,000 OHM 225 Watt radial wire wound resistors connected in parallel to dissipate any residual charge, and then the individual cables are connected to the individual capacitors until maintenance is complete per OEM instructions.
T57911 Electronic Torque Analyzer for Pneumatic and Hydraulic Wrenches 25 to 4000 FT LBS Universal Input Voltage
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
T15491 Hand Held Contact Non Contact 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



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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.



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Miscellaneous

T54923 Battery Lifter for GE FDL Engine
This tool was developed to ease the installation and removal of batteries on GE locomotives. The pickup point can be adjusted so that the lifter is level both loaded and unloaded. The spacer plates and stops on the forks provide the proper spacing so that the smaller batteries are at the same center of gravity as the larger trays. This version supersedes the T54922 with an improvement of the fork arrangements. The new forks are custom machined and mechanically attached to more precisely match the tubing dimensions. This allows the operator to slide the forks between hole positions much easier, and the load is more evenly distributed on the tubing.
T68120 EVO Air Compressor Sensor Tool
This tool was designed to install and remove EVO Air Compressor Sensors. The socket features a 1/2" square drive and a significant portion of the body has been machined to accommodate sensor wires. The socket end is a 3/4" 12 point.
T85891 Alternator Conical Mounting Plate Bolt Wrench
This wrench is used to address the hard to reach back bolts on an Evolution Alternator Conical Mounting Plate. The box end is a 24MM 12 Point and the drive end has a 1/2" square drive. The adapter is just over 14" long and is 1/2" thick.
T41030 Dynamic Brake Grid Lifter
This lifter was developed for the new GE T4 Brake Grids, however, it will address any dynamic brake grid with a steel barrier with lifting holes on the side.
T58904 GE Radiator Bank Lifter
This lifter is rated at 3600 LBS and can be used for FDL, EVO and Tier 4 radiator banks. The middle chain fall position is fixed and the two end







	chains falls are adjustable along the entire beam and are locked in position by tightening the locking pins.
	This adapter block is included with the T80751A Water Pump Appliance and attaches to the top of EVO Water Pump for installation and removal. The bottom of the lifting plate is contoured to match the shape of the threaded portion of the EVO Water Pump.
	T86690 GE Oil Filter Housing Lifting Adapter for C Frame Manipulator This tool was designed to lift both sizes of GE oil filter housings with the door lid closed. The appliance is attached to the T57170 "C" Frame Manipulator and the single fork reaches through the holes in the frame under the tank. The load can then be manipulated with the hydraulic ram on the "C" Frame Manipulator.
	T86641 Traction Cup Connection Socket
CONTRIBUTION OF TESCO	T86330 Locomotive Lifting Fixture GEVO Locomotive
	T85930 EVO Corner Air Duct Lifter This lifter is bolted onto the top of the corner air duct and lifted with an overhead crane. The pick up eye is off center to accommodate the center of gravity and ensure a level lift.

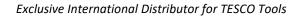






	T85830 EVO Soft Plug Torque Adapter
TO THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN	T85500 GEVO Conical Mount Stud Clearance Check Set Gage
_	T85450 Water and Oil Pump Adjusting Ring Wrench
	This wrench is used to rotate the EVO Water and Oil Pump Mounting Adjustment Rings to adjust pump drive gear backlash.
	T85101 Mag Pick up Connecting Torque Tool
7	T81700 40MM Open End Torque Adapter GEVO Alternator Mount to Alternator Foot Nut
4	T81690 56MM Open End Torque Adapter GEVO Engine Mount to Engine Foot Nut
	T80670 24mm EVO Oil Circulation Pump
	This is a 24mm 12 point Box Adapter for the GEVO Oil Circulation Pump and is fitted with an X Shank drive.
	T80630 10mm GEVO Intercooler Bolt Torque Adapter
	This is a 10mm Hex Adapter for the GEVO Intercooler Bolt and it features a Y shank drive.







8	T66760 Air to Air Heat Exchanger Core Lifter for GEVO Locomotives
•••••	T66630 AMD 103 Brake Adjusting Wrench This wrench is 18" long with a 55mm open end. The tool is used to back the brake shoe away from the wheel on all AMD103 (Amtrak Genesis) locomotives.
	T66531 BKT Reverser Switch Lifter
	T66482 Air Compressor Lifter Cleat For Wabco 3 Cylinder Air Compressors This lifting cleat is to be used in conjunction with the T57170 "C" Frame Manipulator fitted with the T57181-37 Extension to lift air compressors from GE Locomotives. It is designed to attach to the air compressor with the discharge piping flange still attached, significantly reducing the amount of time it takes to attach to and remove the air compressors. It comes complete with the swivel hoist ring and mounting bolts.
	T65770 Plow Straightener
	T64620 Spring Lifter



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T59830 Locomotive Truck Turning Fixture
T57720 Ground Protection Device for Microprocessor Locomotives 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.
T57561 11' Long Cantilever Lifter Multiple Use Rated At 700 lbs
T57560 8' Long Cantilever Lifter Multiple Use Rated At 375 lbs 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. Lifter is shown here being used with the T55591 EMD Water Pump lifter which is sold as a separate item.
Other lifters that are commonly used with this are: T62660 - EMD Hinged Water Pump Lifter T67240 - EMD Large Water Pump Lifter T63860 - EMD Scavenger Oil Pump Lifter T66380A - GE FDL Water Pump Lifter
T18500 Dry Abrasive 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 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



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debris. Glass bead media is used where components are to be cleaned without affecting their critical dimensions

Height 95" Depth 66" Width 50"

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.

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 Aluminum Oxide - 80 grit for more severe cleaning



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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.

Kit#	Spare Parts #	Pump Drive Description
T23320	0 T23470	208V 60HZ 3PH Motor
T23340	0 T23460	230V 60HZ 3PH Motor
T23330	0 T23440	230V 50HZ 3PH Motor
T23380	0 T23410	Gas Engine (Battery Start)
T23390	O T23400	Diesel Engine (Battery Start)
T23270	0 Ref. 1	Straight Wand
T23280) Ref. 2	90-degree Wand

GE Part Number	Description	TESCO Part Number	Other GE Part Number
147X1089-1	PISTON RING COMPRESSOR	T10892	
147X1099-2	PISTON RING EXPANDER	T10992	41A219803P1
147X1406-2	RETAINER TOOL	T14062	41B513677G4
147X1492-1	BEARING SHELL HOLDERAND CAP GUIDE	T14921	41A219606P1
147X1511	SOCKET, 15/16 IN	T15110	
147X1517-1	ADAPTER	T15171	41B513813G1
147X1568-1	BOLT TORQUING KIT	T15681	
147X1604	HOSE ASSEMBLY	T16040	41B514909P3
147X1677	BARRING-OVER TOOL	T16770	41B514153G1
147X1679-2	VALVE CHECKING FIXTURE	T16792	
147X1780-1	TORQUE WRENCH SET	T17802	
147X1856	NOZZLE KNOCKER	T18560	41C613609G1
147X2457	USE 147X3337	T54440	41B513359P7
147X2471	HYDRAULIC CYLINDER LIFTER	DELETED	
147X2608	NOZZLE KNOCKER	T80481	
147X2625	14 MM 12 PT TQ (CHANGED PART NUMBER PER BIBY LUNA - 12/13/13	T85233	
147X2673	CRANKSHAFT DEFLECTION - SUP TO 147X3067	T81252	
147X2788P	FUEL PUMP ADAPTER 12MM		
147X2810-1	DYNAMIC BRAKE GRID LIFTER	T66500	
147X2836	GE MECHANICAL FUEL LINE KIT	T15927L	
147X2867	WATER PRESSURE LOCK-OUT CLAMP	T86400	
147X2869	COMBINATION TOOL CART (LESS TOOL CART)	T24302CLC	
147X2870	RING HANDLE FOR 147X2610 RING COMPRESSOR TOOL	T80101H	
147X2871	PISTON RING COMPRESSOR HANDLE	T10892H	
147X2872	SHORT P/A LIFTER	T54552C	
147X2873	BEARING PRESS (CAMSHAFT SLEEVE BEARING)	T55960	
147X2874	FUEL ROLLER RETAINING PLATE	T57150	
147X2875	CAMSHAFT SEGMENT LIFTER	T55991	
147X2877	DIGITAL MULTIMETER WITH CASE	T70102	
147X2879	HANDLE AND GAUGE	T18940	
147X2880	O-RING SMALL NOZZLE, PACKAGE 6	T14441R	
147X2881	SPEED CONNECTOR SMALL	T14441	
147X2882	O-RING LARGE NOZZLE, PACKAGE 6	T14911R	
1472883	FUEL LINE CRANKCASE W/OVER PRESSURE SWITCH TESTER CALIBRATED 0-20 IN OF WATER	T16422	
147X2884	1/2 SQ RATCHETING ADAPTOR	T15730	
147X2885	TORQUE WRENCH 1 IN SQUARE (TO DRIVE 0-1000 LB)	T18250	
147X2886	MACHINE HAND TOOL SETS - SUP TO 147X2749 (T19272)	T19271	
147X2887	HAND HELD TECHOMETER, SPEED 0-200RPM, RANGE 0-200RPM	T15490	
147X2888	IMPACT WRENCH	T16950	
147X2889	DEEP SOCKET, 9/16 IN - 2 PCS	T17010	
147X2890	INDUCTION HEATER, 460 VOLT	T60171	
147X2891	ADJUSTABLE TORQUE SCREWDRIVER	T59810	
147X2892	"F" COUPLER LIFTER	T57500	
147X2893	KNUCKLE LIFTER	T57490	
147X2894	SPRING PACK LIFTER	T57760	
147X2896	TOP OPERATED DRAWBAR "C" HOOK LIFTER	T58720	
147X2897	WIPER MOTOR WRENCH	T58400	
147X2898	HOPPER CAR DOOR OPERATORS	T58190	
147X2899	HOUSTON SWITCH TESTER	T60200	
147X2900	VERTICAL FLOAT FUEL SENSOR	T60190	
147X2901	MICROPHOR CHLORINATOR CAP WRENCHES 147X2902	T59980	
147X2902	SIGNAL BATTERY LIFTER	T59741	
147X2903	RAIL CAR GRATE LIFTER	T62560	
147X2904	PUNCH WITH HANDLE	T59480	
147X2905	SNYDER FUEL FILL NECK INSTALLATION/REMOVAL WRENCH	T62730	
147X2906	BRAKE SHOE KEY REMOVER	T59200	
147X2907	CAM BEARING SEPARATOR	T58120	
147X2908	BENT ROCKER ARM DEPRESSOR	T10404	
147X2909	BOSCH FUEL LINE JAM NUT ADAPTER	T59371S	
147X2910	SPREADER BEAM	T59331	
147X2911	INERTIAL FILTER BLOWER MOTOR IMPELLER REMOVER	T57400	
147X2912	KEENSERT INSTALLATION TOOLS	T59360	
147X2913	"T" HANDLE WRENCH	T58330	
147X2914	TAILROD STUD ADJUSTING SOCKET	T63640	
147X2915	MAIN BEARING TEMPERATURE SENSOR TORQUE ADAPTER	T81380	
147X2916	CONN ROD, CAP LIFTING TOOL	T86740	
147X2917	HYDRAULIC TENSIONING KIT FOR CYLINDER AND MAIN BEARING STUDS - GEVO ENGINES	T81732	
147X2918	INTERCOOLER REMOVER/INSTALLER	T85373	
147X2919	GE TURBO ROTATING TOOL	T86780	
147X2920	GE LABYRINTH SEAL TURBO TEST	T66990	
147X2922	1/2 IN RATCHET ADAPTER	T15930	
147X2923	REACTION HANDLE	T56051RH	
147X2924	TORQUE HANDLE	T56051TH	
147X2925	REACTION ADAPTER	T56051RA	
147X2926	TORQUE ADAPTER	T56051TA	
147X2928	POWER ASSEMBLY LIFTER	T54552	
147X2929	PISTON PIN BOLT TORQUE KIT	T18412	
147X2930	CROSSHEAD GUIDE PULLER	T16920	
147X2931	GEVO MAIN BEARING STUD TENSIONING KIT	T81732MB	
147X2932	PRESSURE TESTER KIT	T87030	

147X2933	ADAPTER KIT	T87030-DRY	
147X2934	FEMALE TO MALE ADAPTER, 3/4 IN TO 1/2 IN	T219957P77	
147X2936	HEX HEAD WRENCH	T219957P59	
147X2937	DRIVE IMPACT UNIVERSAL JOINT	T219957P55	
147X2938	RATCHET, 1/2 IN	T219957P41	
147X2939	SCREWDRIVER 8	T219957P32	
147X2940	BALL PEEN HAMMER	T219957P15	
147X2941	COMBINATION WRENCH	T219957P24	
147X2942	MIRROR	T219957P12	
147X2943	EVO LEVER ACTION NOZZLE PULLER	T86920	
147X2944	EVO FUEL PUMP TORQUE KIT	T86820	
147X2945	CAPACITOR DISCHARGE RESISTOR	T64841	
147X2946	TRACTION MOTOR DOG BONE GUIDE	T65971	
147X2947	CORNER AIR DUCT LIFTER	T85930	
147X2951	GEVO CONNECTING ROD CAP LIFTER	T86741	
	HYTORC PUMP WITH ENCODER - HY-QAS240-EN (ORDER 240V PUMP FOR AUSRALIA		
147X2950	VOLTAGE)	HY-QAS240	
147X2952	STORAGE CARD FOR "C" FRAME MANIPULATOR	USE 147X3002	
147X2953	WATER/OIL PUMP APPLIANCE ARM	T80752	
147X2954	AIR COMPRESSOR LIFTER CLAT FOR WABCO 3 CYLINDER AIR COMPRESSORS	T66482	
147X2955	AIR TO AIR STAND TOOLS	T65420	
147X2956	OIL COOLER LIFTING ATTACHMENT FOR "C" FRAME MANIPULATOR - GEVO	T85680	
147X2957	GEVO 12 CYLINDER OIL PUMP LIFTER	T86760	
147X2958	EXTENDED REACH GEVO TRACTION MOTOR BLOWER LIFTER - WITH STAND	T63200SAA	
147X2959	EQUIPMENT BLOWER LIFTING ATTACHMENT FOR "C" FRAME MANIPULATOR	T63201	
147X2960	HYTORC TOOLS PART NUMBER - 3MXT HYDRAULIC TORQUE HEAD (NEED 2-1/16 IN 1 IN DRIVE SHALLOW	3MTX	
1	SOCKET FOR TIE BAR MOUNTING BOLTS)	J	
147X2961	ALTERNATOR CONICAL/PLATE MOUNTING BOLS WRENCH SET (FERFUSON PART NUMBER LISTED)	GEVOADMRTK	
147X2962	GEAR CASE PLUG TOOL TOOLS	T65530S	
147X2963	GEVO ALTERNATOR LINEUP PIN	T87040	
147X2963 147X2964			
	MAG TEST PROBE	T87090	
147X2965	BARRING OVER TOOL (T16050EVO AND T22031)	T86770	
147X2966	MAIN BEARING CAP LIFTER KIT - EVOLUTION	T85051	
147X2967	COMBINATION ENGINE LIFTER	T85202FC	
147X2968	CRANKSHAFT SENSOR WRENCH SET	T85261	
147X2970	LINER, PISTON AND STRONGBACK LIFTER	T85311	
147X2971	SUP TO 147X2971-1 (T8462K)	T85461K	
147X2971-1	CAM BEARING ADAPTER PRESS PLATE KIT	T85462K	
147X2972	EXHAUST BELLOWS ADAPTER	T85701	
147X2973	FUEL PUMP BASE BOLT ADAPTER	T85820	
147X2974	EVO TOOL CART	T85900C	
147X2975	BLANKING TOOLS	T85953	
		T85952-5	
147X2976	5 IN BLANKING TOOLS		
147X2977	ROTATING PA LIFTER	T86000	
147X2978	METRIC TORQUE ADAPTER SET	T86060	
147X2979	OIL PUMP LIFTING ADAPTER	T86550	
147X2980	MANUAL NOZZLE PULLER W/TIP	T86630	
147X2981	M36X2 RETHREADING TAP	T86650	
147X2982	M36X2 RETHREADING DIE	T86660	
147X2983	HIGH PRESSSURE FUEL PUMP LIGHT	T86670	
147X2984	OIL FILTER HOUSING LIFTER	T86690	
147X2985	ATS LIFTER	T86750	
147X2986	CYLINDER LINER REMOVAL WEDGE	T86510	
147X2987	ADAPTER ASSEMBLY F/T52090 KIT	T52240	
147X2988	ELECTRIC POWERED HYDRAULIC PUMP - 230V	T55961P	
147X2989	HYDRAULIC V-228 MAIN BEARING CAP TOOL	T65820K	
147X2990	PISTON HOLDING TOOL	T85080	
147X2991	BOX WRENCH TORQUE KIT	T17801	
147X2992	24MM BOX END ADAPTER	T80700	
147X2993	CONICAL MOUNT STUD CLEARANCE TOOL	T85500	
147X2994	EVO POWER ASSEMBLY LIFTER	T86001	
147X2995	115 VOLT MAIN BEARING WRENCH	T19250	
147X2996	CAM SHAFT BEARING SPREADER	T11322	
147X2997	FDL OIL PUMP LIFTER	T66560	
147X2998	OIL COOLER LIFTER	T59992	
147X2999	AIR COMPRESSOR APPLIANCE	T57181-37	
147X3000	WATER PUMP LIFTER PLATE	T66380A	
147X3001	INTERCOOLER LIFTER	T55432	
147X3001 147X3002	"C" FRAME STORAGE CART	T57170SC1	
147X3003	DYNAMIC BRAKE GRID WRENCH	T54121	04.04
147X3004	COMBO DECADE BOX	T64931C	84A215976P4
147X3005	REACTION FIXTURE WITH T50830 (14X2019-2) HD CLAMPS	T15971	
147X3006	13 FEET LONG X 1 IN DR. EXTENSION	T15980	
147X3007	SOCKET	T16001	
147X3008	5:1 TORQUE VERIFIER	T16500	
147X3009	GE PISTON RETAINERS	T23221	
147X3010	TURBOCHARGER MOUNTING BOLT TORQUE KIT	T23520	
147X3011	CART FOR CYLINDER HOLD DOWN BOLT TORQUING	T23980	
147X3012	CAM SHAFT FUEL ROLLER LIFTER	T52051	
14772012		T10000	
147X3013	PISTON RING GROOVE SCRAPER	T10980	
147X3013 147X3014	PISTON RING GROOVE SCRAPER POWER ASSEMBLY GUIDE IN FOR GE FDL ENGINES	T13670	

147X3015		
	COMPESSION TESTER SET - SET OF 8 TESTERS FOR GE FDL ENGINES	T22303
147X3016	TURBO LIFTER	T19164
147X3017	GE FDL MAG PICK-UP SETTING TOOL	T59001
147X3018	GE FDL CRANK SENSOR SETTING TOOL	T64611
147X3019	MAIN BEARING CAP LIFTER	T19231
147X3020	OPEN END TORQUE WRENCH KIT	T17801-OE
	GE FILL NECK PRESSURE FIXTURE	
147X3021		T51780
147X3022	GE FILL NECK PRESSURE FIXTURE WIT 3/4 N FITTINGS FOR COOLING SYSTEM TESTER	T51780-3/4
147X3023	WABCO MANUAL AIR COMPRESSOR VALVE CAP AND CAGE TOOL SET	T66281M
147X3024	WIDE GROOVE SCRAPER FOR OIL CONTROL RING GROOVE ON CUTBACK PISTONS - GE FDL ENGINES	T10980W
147X3025	PISTON PROTECTOR	T19510
147X3026	0-160 PSI GAUGE FOR AIR CONTROL KITS	T16031
	CYLINDER HOLD DOWN BOLT IMPACT WRENCH SET (WITHOUT AIR CONTROL KIT) GE FDL ENGINES - FOR	
147X3027	REMOVAL ONLY	T16842
147X3028	5000 PSI HYDRAULIC CYLINDER LEAK TEST FIXTURE - 115 V - FOR GE FDL ENGINES	T17380
147X3029	CYLINDER HEAD LIFTER FOR GE FDL ENGINES	T20241
147X3030	1 5/8 IN-12 INSERT (6 SUPPLIED)	T50390
147X3031	EXHAUST MANIFOLD RATCHET WRENCH - 5/8 IN FOR GE FDL ENGINES	T55701
147X3032	PROTECTIVE PAD FOR MASTER ROD SHANK - GE FDL ENGINES	T18280
147X3033	GE CRANKSHAFT FRONT COVER PULLER	T58530
147X3034	ART ROD GUIDE PIN	T11220
147X3035	MASTER ROD BEARING CAP KNOCKER AND LIFTER FOR GE FDL ENGINES	T14141
147X3036	ART ROD PIN RETAINER	T14740
147X3037	TURBOCHARGER BEARING PULLER - GE FDL ENGINES	T11921
	BCO TURBOCHARGER CORE PLUG SPANNER WRENCH (3/4 IN HOLE SPACING X 1-1/8 IN MALE HEX)	
147X3038	· · · · · · · · · · · · · · · · · · ·	T15240
147X3039	BCO TURBOCHARGER CORE PLUG SPANNER WRENCH (1-1/2 IN HOLE SPACING X 1-1/8 IN MALE HEX)	T15250
147X3040	PULLER ASSEMBLY FOR GE FDL TURBOCHARGER COMPRESSOR WHEEL	T20750
147X3041	SPANNER WRENCH FOR COMMUTATOR END BEARING NUTS ON GE-752 TRACTION MOTORS	T51630
147X3042	PIN (W REQUIRED)	T51630P
147X3043	SCREW (2 REQUIRED)	T51630S
147X3044	VIBRATION DAMPER LIFTER FOR GE FDL ENGINE	T16662
147X3045	UNIVERSAL ENGINE/ALTERNATOR IFTER FOR 8, 12, 16 CYLINDER GE 7FDL ENGINES AND EMD ENGINES	T16884C
	DRY ABRASIVE BLAST CLEANING MACHINE	
147X3046		T18500
147X3047	RADIATOR FAN LIFTER HANDLES FOR T50933 LIFTER	T50933H
147X3048	AXLE CAP PIPE PLUG WRENCH - 9/16 IN AND 13/16 IN SQUARE FEMALE DRIVE ENDS	T54720
147X3049	AXLE CAP PIPE PLUG WRENCH - 9/16 IN AND 13/16 DOUBLE SQUARE FEMALE DRIVE ENDS	T54721
147X3050	LOCOMOTIVE MOTORING DEVICE WITH 7 FT CORD	T59521
147X3051	GE PIPE JACK - SADDLE ID 2.5 IN, SADDLE WIDTH 3 IN, KNURLED PAD	T62610
147X3052	2.375 GE CHECK VALVE SPREADER, SADDLE ID 2.375 IN, SADDLE WIDTH 0.75 IN, Knurled PAD	T63491
147X3053	AIR COMPRESSOR LIFTER CLEAT FOR ALL GE LOCOMOTIVE AIR COMPRESSORS	T66481
	FDL WATER DISCHARGE ELBOW LIFTER	
147X3054		T66490
147X3055	BKT AND REVERSER SWITCH LIFTER	T66530
147X3056	HEAVY DUTY FAN REMOVER TOOL FOR GE LOCOMOTIVE GA57 FAN UNITS	T80750AB-FDL
147X3057	SEAL KIT - CART REGULATOR AND EVO CAP	T87030SK
147X3058	GASKET FOR FDL CAP	T51860
147X3059	FDL FILL CAP	T87030-G7
147X3060	EVO FILL CAP	T87030-G7E
147X3061	SPANNER WRENCH	T87030-5
147X3062	HOSE, 15 FT - SUP TO -1 T87031HA	T87030-H15
		10/030-1113
147X3062-1	HOSE ASSEMBLY, 15 FT	T07024114
147X3063		T87031HA
	MALE QD FITTING ON FILL CAP - SUPERSEDED TO 147X3062-1 HOSE NO FITTINGS	FT1520
147X3064	FEMALE QD FITTING ON CART - SUP TO	
147X3064 147X3065		FT1520
	FEMALE QD FITTING ON CART - SUP TO	FT1520 FT522
147X3065 147X3066	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL	FT1520 FT522 T15942 T81252-L250
147X3065 147X3066 147X3067	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE	FT1520 FT522 T15942 T81252-L250 T81253
147X3065 147X3066 147X3067 147X3068	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228
147X3065 147X3066 147X3067 147X3068 147X3069	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T857125 T17801MOE-10 T57141
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T857125 T17801MOE-10 T57141
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T857125 T17801MOE-10 T57141 T80440AB
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3)	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3075	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3075 147X3083 147X3085	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T857125 T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3088	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3083 147X3085 147X3085 147X3086 147X3087 147X3087	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3088	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3083 147X3085 147X3085 147X3086 147X3087 147X3087	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3086 147X3088 147X3088 147X3088 147X3088 147X3088	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T857125 T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H
147X3065 147X3066 147X3066 147X3068 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3087 147X3089 147X3089 147X3090 147X3091	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961R
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3088 147X3088 147X3089 147X3090 147X3091 147X3091	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961R T55961S
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3083 147X3085 147X3085 147X3087 147X3087 147X3089 147X3090 147X3090 147X3091 147X3092 147X3093	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961R T55961S T55961SS
147X3065 147X3066 147X3067 147X3068 147X3069 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3085 147X3086 147X3087 147X3088 147X3089 147X3090 147X3091 147X3091 147X3092 147X3093 147X3094 147X3094	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961BM T55961SS T55961PC
147X3065 147X3066 147X3066 147X3069 147X3070 147X3071 147X3072 147X3073 147X3075 147X3075 147X3075 147X3085 147X3086 147X3086 147X3087 147X3089 147X3089 147X3090 147X3091 147X3091 147X3092 147X3094 147X3094 147X3095 147X3096	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR 3/8 IN HEX BIT, 1/2 IN DRIVE SOCKET INDUSTRIAL FINISH	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961R T55961S T55961SS
147X3065 147X3066 147X3066 147X3068 147X3070 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3089 147X3089 147X3090 147X3091 147X3092 147X3093 147X3094 147X3095 147X3096 147X3097	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR 3/8 IN HEX BIT, 1/2 IN DRIVE SOCKET INDUSTRIAL FINISH BOX - WRENCH ADAPTER - 9/16 IN	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961H T55961B T55961S T55961RM T55961PC GSA12E
147X3065 147X3066 147X3066 147X3069 147X3070 147X3071 147X3072 147X3073 147X3075 147X3075 147X3075 147X3085 147X3086 147X3086 147X3087 147X3089 147X3089 147X3090 147X3091 147X3091 147X3092 147X3094 147X3094 147X3095 147X3096	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR 3/8 IN HEX BIT, 1/2 IN DRIVE SOCKET INDUSTRIAL FINISH	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961BM T55961SS T55961PC
147X3065 147X3066 147X3066 147X3068 147X3070 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3089 147X3089 147X3090 147X3091 147X3092 147X3093 147X3094 147X3095 147X3096 147X3097	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR 3/8 IN HEX BIT, 1/2 IN DRIVE SOCKET INDUSTRIAL FINISH BOX - WRENCH ADAPTER - 9/16 IN	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961H T55961B T55961S T55961RM T55961PC GSA12E
147X3065 147X3066 147X3066 147X3068 147X3070 147X3071 147X3072 147X3073 147X3074 147X3075 147X3085 147X3085 147X3086 147X3087 147X3089 147X3090 147X3091 147X3091 147X3093 147X3093 147X3094 147X3096 147X3096 147X3097 147X3097 147X3097	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR 3/8 IN HEX BIT, 1/2 IN DRIVE SOCKET INDUSTRIAL FINISH BOX - WRENCH ADAPTER - 9/16 IN BOX - WRENCH ADAPTER - 3/4 IN	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961R T55961R T55961R T55961RM T55961RM T55961RM
147X3065 147X3066 147X3066 147X3069 147X3069 147X3070 147X3071 147X3072 147X3073 147X3075 147X3075 147X3083 147X3085 147X3086 147X3087 147X3089 147X3090 147X3091	FEMALE QD FITTING ON CART - SUP TO OPEN-END WRENCH ADAPTER, 7/8 IN INLINE EVO CRANKSHAFT DEFLECTION GAGE MANDREL CRANKSHAFT DEFLECTION GAUGE V228 CRANSHAFT DEFLECTION GAGE MANDREL 12 POINT 3/4 N DR X 24MM SWEEP DIAL SOCKET 10MM OPEN END ADAPTER, Y-SHANK 1.5 IN CROWS FOOT ADAPTER RETAINER BOLTS 30MM Y-SHANK TOOL EXHAUST MANIFOLD BOLT ADAPTER WIRE BRUSHES (3) RETAINING BOLT WITH CIRCLIP REACTION ARM TIER 4 MAIN BEARING SIDE BOLT SOCKET 442 STANDARD SOLUTION (3000PPM/39000US) NIST TRACEABLE - 1 QT/LTR CERTIFICATE OF NIST TRACEABILITY FOR CONDUCTIVITY/TDS STANDARD SOLUTION 115V MOTORIZED PUMP HOSE RAM BEARING INSTALLATION MANDREL STARTER SPACER REACTION MANDREL PUSHING COLLAR 3/8 IN HEX BIT, 1/2 IN DRIVE SOCKET INDUSTRIAL FINISH BOX - WRENCH ADAPTER - 9/16 IN BOX - WRENCH ADAPTER - 3/4 IN BOX - WRENCH ADAPTER - 15/16 IN	FT1520 FT522 T15942 T81252-L250 T81253 T81252-V228 T85712S T17801MOE-10 T57141 T80440AB T81351 T85702 T85910-10 T57150SB T81050RA T40300 442-3000Q SC-3000Q T14320 T55961H T55961R T55961R T55961R T55961PC GSA12E

147X3102	SOCKET-5/16 IN,12-POINT, 3/8 IN DRIVE	TF101
147X3103	NOZZLE ALIGNMENT TOOL	T40650
147X3104	HEAD STUD INSTALLER	T40060
147X3105	HEAD STUD REMOVER	T40060R
147X3107	ROD BEARING RETAINERS	T40310
147X3108	MAIN BEARING CAP LIFTER KIT	T40530
147X3109	NOZZLE SLEEVE TORQUE ADAPTER	T40620
147X3110	24MM OPEN END TORQUE ADAPTER	T40390
147X3111	MAIN BEARING STUD TENSIONER LIFTING ARM	T40480
147X3112	48MM X 2 STUD DRIVER - MB STUDS	T40070
147X3113	48MM X 2 STUD REMOVER - MB STUDS	T40070R
147X3114	MAIN BEARING NUT RUNNER	T40080
147X3115	TURBOCHARGER LIFTER	T40360
147X3116	INJECTOR HOLD DOWN BOLT TORQUE ADAPTER	T40560
147X3117	NOZZLE CARBON CLEANER	T40600
147X3118	40MM OPEN ENDED ADAPTER	T40630
147X3119	FUEL INJECTOR COPPER SEAL REMOVER	T40640
147X3120	FUEL PUMP LIFTER WITH ENGINE CAB	T40210
147X3121	NOX AND O2 SENSOR INSTALL SOCKET	S6176
147X3122	TRACTION MOTOR SPEED SENSOR TESTER	T67280CP
147X3123	M&S TENSIONING KIT	T81731M
147X3125	ALIGNMENT TOOL	T86790
147X3126	IN PULLER	T86860
147X3127	CLAMP BOLT EXTENSION	T85706-16
147X3127	OPEN END TORQUE ADAPTER	T17801MOE-27X
147X3129	CROWS FOOT ADAPTER	T86831
147X3129 147X3130		
	TURBOCHARGER LIFTER	T19164
147X3131	VALVE SEAT GRINDING SET	T10472
147X3132	SOCKET 2" HEX 1" Square Drive	T16101
147X3133	PNEUMATIC TORQUE	T81051
147X3134	HYDRAULIC CYLINDER LINER REMOVER	T16711
147X3135	LIGHTWEIGHT COMPONENT ASSEMBLY/REMOVAL 'C' FRAME	T86721
147X3136	LIGHTWEIGHT 'C' FRAME STORAGE CART	T86721SC
147X3137	CYLINDER HEAD LIFTER	T40320
147X3138	OIL COOLER LIFTER	T40520
147X3139	FRONT CAM BEARING INSTALLATION AND REMOVAL KIT	T40020
147X3140	ENGINE LIFTER UPGRADE KIT	T85201U
147X3141	CAM GEAR LIFTER	T40120
147X3142	CAM GEAR LIFTER	T40110
147X3143	LARGE CAM BEARING INSTALL & REMOVAL KIT	T40010
147X3144	STRONG BACK AND CYLINDER LIFTER	T40290
147X3146	EGR COOLER LIFTER	T40100
147X3147	HIGH PRESSURE TURBOCHARGER LIFTER	T40791
147X3148	CYLINDER LINER LIFTER	T40540
147X3149	L6/R6 CAM FOLLOWER RETAINER	T87200
147X3151	ADAPTER BLOCK FOR OIL PUMP LIFTER	T40260
147X3152	CRANKSHAFT DEFLECTION GAGE MANDREL FOR T4 ENGINES	T40040
147X3153	LIFT	T40830
147X3155	1-7/8" IMPACT SOCKET, 6 PT W/ 1" SQ. DRIVE	T52210-S1
147X3161	AH MOTOR DRIVE SOCKET	T58300-S
147X3162	METRIC OPEN ENDED TORQUE KIT	T17801MOE
147X3163	GEAR CASE PLUG TOOL - 15/16" AND 1"W/ TORQUE WRENCH	T65531S
147X3164	C FRAME STORAGE CART	T57170C1
147X3165	CONN ROD CAP LIFTER - GEVO ENGINES	T86340
147X3166	CAM BEARING BUSHING INSTALLER/REMOVER	T55961
147X3167	REPLACEMENT DRIVE PINS FOR ARBOR T58440 IN TOOL CART	T58440DP
147X3167	CAM GEAR LIFTER	T58711
147X3169	CAM ALIGNMENT TOOL	T65570
147X3170	TOOL CART 7FDL EFI ENGINE	T24303
147X3172	1-1/8" SOCKET	T18660
147X3173	AIR COMPRESSOR LIFTER CLEAT	T66842
147X3174	FULE LINE TORQUE KIT	T15926ML
147X3175	SOCKET FOR SPEED SENSOR	T58090
147X3176	EXHAUST MANIFOLD	T55572
147X3177	FUEL PUMP MOUNTING BOLT	T14791
147X3178	COOLING SYSTEM TEST KIT	T51750ICT
147X3179	TURBO BOLT TORQUE ADAPTER	T23500
147X3180	VALVE LASH NUT WRENCH	T40570
147X3181	CYLINDER LINE LIFTER	T40660
147X3182	CYLINDER LINE RETAINER SET	T40670
147X3183	HEAD NUT RUNNER	T40050
147X3184	WATER & OIL ADJUSTING RING WRENCH	T85450
147X3185	ENGINE STAND SET	T59191
147X3186	PRE-TURBINE TEMP SENSOR MEASUREMENT FOR GE EFI AND MFI ENGINES	T22062
147X3188	3/4" DRIVE WITH 15/16" 12 POINT	T14994
147X3189	REACTION PLATE FOR #5 NORBAR	T23831
147X3190	INTERCOOLER LIFTER	T55431B
147X3191	ALTERNATOR PIN GUIDE REMOVAL TOOL	T64310-7D
147X3192	REPLACEMENT BOLT ALTERNATOR DOWEL REMOVAL TOOL BOLT	T64310-7DB
147X3193	UNIVERSAL ENGINE LIFTING PLATFORM	T85205
147X3194	FDL ENGINE COMPONENT SET	T85205KT-FDL

1/7V2106	SPRING	T10510
147X3196		T10510
147X3197	53 PSI WATER PRESSURE TESTER (DRY)	T87031
147X3198	PART	T40291
147X3199	PART	T40081
147X3200	FUEL INJECTOR SEAL RING REMOVER	T86501
147X3202	EVO ROD CAP NUT SOCKET SET	T85710S
147X3203	55MM THIN WALL DEEP WELL SOCKET W/ 1" DRIVE	T81280
147X3204	OIL DRAIN LINE ADAPTOR	T87010
147X3205	PORKCHOP WRENCH	T14582
147X3206	FLYWHEEL/FLEX PLATE ALIGNMENT PINS	T67550
147X3207	X	T90750A
147X3208	REPAIR KIT TOOL - HYDRAULIC TENSIONING KIT FOR CYLINDER AND MAIN BEARING STUDS	T81732MBSK
147X3209	HIGH PRESSURE TURBO LIFTER	T40490
147X3210	REACTION PIN	T58440RP
147X3211	SOCKET	T55320
147X3212	ENGINE LIFTING BRACKET KIT	T86260IMB
147X3213	NUTS	T86280P12
147X3214	BOLTS	T86260P11
147X3215	PA ASSEMBLY STAND	T65071
147X3216	13/16 ADPT, BOX, TORQUE WRENCH	T17761
147X3217	COPPER WASHER INSTALLATION TOOL	T40980
147X3218	QUEENSLAND REACTION FIXTURE	T15971Q
147X3219	METRIC BOX END TORQUE KIT	T17802M
147X3220	GOVERNOR STOP BLOCK	T50960
147X3221	QUEENSLAND EXTENSION	T15980Q
147X3222	QUEENSLAND TORQUE KIT	T15681Q
147X3223	QUEENSLAND POWER ASSEMBLY LIFTER	T19923Q
147X3224	IGBT & RM LIFT DEVICE	T67730
147X3225	MAIN BEARING FRAME SPREADER	T85111
147X3226	EGR CLEANING KIT	T41080
147X3227	BOX WRENCH TORQUE KIT	T17802
147X3228	FUEL PUMP MOUNTING WRENCH	T14972
147X3229	FDL COMPONENT SET	T8205KT-FDL
147X3230	EMD COMPONENT SET	T8205KT-EMD
147X3231	LARGE BEARING INSTALL REMOVAL KIT F/GEVO & TIER 4	T85602
147X3231	JAM NUT TORQUE VERIFICATION ADAPTERS	T59370S
147X3232	DIGITAL MULTIMETER WITH CASE AND LEADS	T70102
147X3233	CAM BEARING INSTALL REMOVAL TOOL - DO NOT USE	T85462
147X3234 147X3235	CAM BEARING INSTALL REMOVAL TOOL	T85462
147X3235	LARGE BEARING INSTALL REMOVAL KIT F/GEVO & TIER 4	T85602
147X3236 147X3237	UNIVERSAL ENGINE LIFTER KIT - WITH MUFFLER ATTACHED	T85205TK-T4-MA
147X3237	UNIVERSAL ENGINE LIFTER KIT - WITH MUFFLER REMOVED	T85205TK-T4-MR
147X3239 147X3240	CYLINDER HEAD ONLY LIFTER	T40320GC T41130
	HEAD AND STRONG BACK ONLY LIFTER	
147X3241	TIER 4 EGR COOLER LIFTER	T41040
147X3242	TIER 4 DYNAMIC BRAKE GRID LIFTER TIER 4 MANDREL FOR NITRIDED CRANKSHAFT	T41030
147X3243		T81252-2C
147X3244	TIER 4 MANDREL FOR INDUCTION HARDENED CRANKSHAFT	T81252-2D
147X3245	TIER 4 FUEL PUMP ALIGNMENT TOOL	T40210-AT
147X3246	LUBE OIL AND FUEL OIL CONDITION MONITOR SENSOR SOCKET	T4T40900
147X3247	LOCOMOTIVE PLOW STRAIGHTENER	T65770
147X3248	CAM BOLT ADAPTER	T85231
147X3250	GEVO FUEL INJECTOR SLEEVE TORQUING TOOL	T81330
147X3251	ENGINE LIFTER PLATFORM	T85205
147X3252	FDL COMPONENT SET	T85202KT-FDL
147X3253	TIER 4 STRONGBACK AND LINER LIFTER	T40291
147X3254	BEARING RETAINER FIXTURE	T63610
147X3255	HYDRAULIC RAM AND PUMP	T12890
147X3256	BALL PEEN HAMMER	T219957P15
147X3257	AIR MOTOR FOR GE AND EMD CYLINDER HOLD DOWN BOLTS	T16051
147X3258	REPLACEMENT BLOCK F/WATER PUMP ADAPTER	T80750AB
147X3259	MARINE EGR FLUSHING KIT	T41080M
147X3260	EVO LINER REPLACEMENT TABLE STAND	T85745
147X3261	0-600 PSI COMPRESSION TESTER GAGE	T50121
147X3262	EMD ADAPTER	T50160
147X3263	REACTION PLATE	T22531
147X3264	COVER SEAL ADAPTER(CUSTOMER MUST SUPPLY THE VALVE COVER)	T64720C
147X3265	STIFF GAGE ASSEMBLY	T64720S
147X3266	1/4 BSF X 7/8 SHCS	25065/14
147X3267	FUEL LINE TORQUE KIT F/EFI	T15926L
147X3268	TIER 4 MARINE VEE ENGINE EGR CLEANING KIT	T41080MV
147X3269	TIER 4 MARINE INLINE ENGINE EGR CLEANING KIT	T41080MI
147X3271	CYLINDER HOLD DOWN BOLT INSERT WRENCH 1/2" SQUARE DRIVE - GE FDL ENGINES	T13222
147X3272	ENGINE LIFTER EVO & TIER 4	T85202
147X3273	MARINE FLYWHEEL LIFTER	T40940
147X3274	45MM X 2 STUD DRIVER - MB STUDS	T80170
147X3275	45MM X 2 STUD REMOVER - MB STUDS	T80170R
147X3276	PISTON & ROD LIFTER FOR 25' CRANE	T40410
147X3277	MARINE 250MDC L¿ORANGE HPFP LIFTER	T41060
147X3278	V250 OIL COOLER BRACKET LIFTER	T41180
147X3279	TIER 4 MARINE SEAWATER PUMP LIFTER	T40960

4.47)/2204	COPER CENICOD ALICANAENT TOOLS	705204.4
147X3281	SPEED SENSOR ALIGNMENT TOOLS	T85291-1
147X3282	SPEED SENSOR ALIGNMENT TOOLS	T85291-2
147X3283	EVOLUTION POWER ASSEMBLY STAND	T85741
147X3284	I.F.E. LIFTER (INTEGRATED FRONT END)	T85531
147X3285	ANTI-SEIZE (9 0Z. BRUSH-TOP CAN)	T23950
147X3286	LOCTITE 262 - 50 ML	T23960
147X3287	LINER, PISTON AND STRONGBACK LIFTER	T85312
147X3288	24MM BOX END ADAPTER	T80911
147X3289	24MM OIL PUMP TORQUE ADAPTER	T85421
147X3290	CRANKSHAFT DEFLECTION GAUGE KIT - CONTAINS MANDRELS FOR HDL, FDL AND GEVO ENGINES	T81254
147X3291	MAIN BEARING FRAME SPREADER	T85112
147X3292	METRIC CROW¿S FEET	T17802MOE
147X3293	EGR 3GPM PRESSURE WASHING MACHINE HOTSY HD 3.0	T41200
147X3294	EGR PRESSURE WASHING MACHINE ACCESSORY SET (FOR T41200)	T41210
147X3295	5/8¿ BOX WRENCH ADAPTER	T17731
147X3296	UNIVERSAL LIFTER (T85205) ATTACHMENT KIT ¿ GEVO WITH MUFFLER REMOVED	T85205KT-GEVO-MR
147X3297	GUAGE (0-60 PSI)	T51830
147X3298	LOWER LINER SEAL INSTALLATION/REMOVAL KIT	T54771
147X3299	HYDRAULIC RAM	T54770R
147X3300	TOP ASSEMBLY	T54770TA
147X3301	WOBBLE PLATE	T54770WP
147X3302	T54770FC FEMALE COUPLER (2 REQUIRED)	T54770FC
147X3303	YDRAULIC PUMP 2 WAY	T54770P
147X3304	T54770HA HOSE ASSEMBLY (2 REQUIRED)	T54770HA
147X3305	MARINE MAIN BEARING CAP SIDE BOLT SOCKET	T81920M
147X3306	TORQUE KIT F/MAIN BEARING SIDE BOLTS F/ TIER 2 MARINE INLINE	T81052M
147X3307	TIER 4 CONROD BOLT TORQUE MULTIPLIER	T41140
147X3308	L250 OIL PUMP FILTER ADAPTER	T40760-A
147X3309	40K PSI FLEX LINE T50850FHA	T50850FHA
147X3310	PUMP TO TUBING ADAPTER T50740	T50740
147X3311	MAIN BEARING STUD TENSIONER REPAIR KIT	T81732SK
147X3312	STARTER MOTOR LIFTING TOOL	T55690
147X3313	GE-EVO 12MM X 1.75 PITCH GAGE	T87261
147X3314	T85205-GEVO-MR KIT	T85205KT
147X3315	GEVO COMPRESSION RELIEF PLUG WRENCH	T87120
147X3315	LINK PIN (SHORT)	T85205LP-WR
147X3317	LINK PIN (LONG)	T85205LP-HL
147X3317		T85205LF-IIL T85205HL-GEVO
147X3319	H-LINK ASM F/GEVO	
	36MM SWIVEL HOIST RING	T85205SHR-GEVO
147X3320	56 м м GEVO ENGINE MOUNT TO ENGINE FOOT NUT	T81690
147X3321	40MM OPEN END TORQUE ADAPTOR - GEVO ALTERNATOR MOUNT TO ALTERNATOR FOOT	T81700
147X3322	GE RADIATOR BANK LIFTER	T58904
147X3323	C FRAME MANIPULATOR*	T57170
147X3324	CRANKCASE PRESSURE TEST KIT	T87080K
147X3325	OPEN END TORQUE WRENCH KIT	T17802-OE
147X3326	CAM SEGMENT ALIGNMENT PIN FOR GEVO ENGINE	T81390
147X3327	GEVOADMRTK ALTERNATOR CONICAL/PLATE MOUNTING BOLTS	T85891
147X3328	T85205-GEVO-MA KIT	T85205-GEVO-MA
147X3329	LIFTER, INVERTER CAPACITOR	T68590
147X3330	GEVO INJECTOR SLEEVE REMOVER	T86980
147X3331	BOX END TORQUE ADAPTER 24мм	T17802M-24
147X3332	BOX END TORQUE ADAPTER ¿ 30мм	T17802M-30
147X3333	CROWFOOT OPEN END WRENCH 1-1/2 INCH	T86170
147X3334	WATER REGULATOR KIT	T51760
147X3335	EVO 50-PSI FILL NECK CAP ASSEMBLY	T87031-G7EN
147X3336	L/V250 EGR COOLER CLEANING KIT	T41080MC
147X3337	CAM SECTION BOLT TORQUE ADAPTER	T54442
147X3338	17MM TORQ ADP 12PT BX	T80681
147X3339	LIFTER FOR CYLINDERS	T85521
147X3340	TIER 4 POWER ASSEMBLY LIFTER	T40220GC
147X3341	COMPLETE REMOTE CONTROL UNIT	T22031
147X3342	1-1/4" OPEN END ADAPTER	T59141
147X3343	L250 VIBRATION DAMPER AND PTO SHAFT TORQUE KIT	T41250
147X3344	V250 PTO SHAFT TORQUE KIT	T41270
147X3345	V250 VIBRATION DAMPER TORQUE KIT	T41260
147X3346	19MM BOX END TORQUE ADAPTOE	T80810
147X3347	GE PISTON EXPANDER	T10993
147X3348	FUEL NOZZLE KNOCKER/REMOVER	T18561
147X3349	TAPPET ROD HOLDER	T56030
147X3350	EVO SOFT PLUG TORQUE ADAPTER	T85830
147X3351	Y SHANK (.560") PRE-SET TORQUE HANDLE (45-200 FT. LBS)	T-200T-I
147X3351 147X3352	INFRARED & CONTACT THERMOMETER	T68490
147X3352	PISTON PIN LOCATING DOWELS - GE FDL ENGINES	T13261
147X3354	PISTON PIN LOCATING DOWELS - GE FOL ENGINES PISTON & ROD ASSEMBLY LIFTER FOR GE FOL ENGINES	T18593
147X3355	FUEL PUMP INSTALLATION TOOL	T81830
147X3355 147X3356	EVO TOOL CART COMPLETE W/TOOLS	T85901
147X3356 147X3357		T87152
	T3 VALVE COVER PULLER GE EVO TURBO MOUNTING ELANGE POUT EVERACTOR	
147X3358	GE EVO TURBO MOUNTING FLANGE BOLT EXTRACTOR	T87180
147X3359	EVO CAM ROLLER RETAINING PLUG SET	T87200S
147X3360	EXHAUST BELLOWS ADAPTER (1/2" SQ. DRIVE, 12MM 12 POINT) GEVO ENGINES	T40370
147X3361	CAPACITOR DISCHARGE RESISTOR	T64842

147X3362			
	CAM CAR INSTALLATION SOCKET	T58080-CS	
147X3363	CAM CAR REMOVAL SOCKET	T58080-CRS	
147X3364	BOSCH FUEL PUMP MOUNTING ADAPTER	T59570	
147X3365	PISTON PIN BOLD WRENCH (3/4IN SQUARE DRIVE - 15/16IN 12 PT)	T14993	
147X3366	TURBOCHARGER LIFTER FOR GE FDL ENGINES	T19162	
147X3367	CRANKSHAFT DEFLECTION GAUGE FOR GE FDL ENGINES	T12270	
147X3368	DIGITAL DIAL INDICATOR	T81252GD	
147X3369	FDL FUEL PUMP MOUNTING BOLT ADAPTER	T14974	
147X3370	COMBINATION SPLITTER & FLUSHER KIT	T41360C	
147X3371	INTERMEDIATE GEAR LIFTER	T85000GC T80210	
147X3372	GEVO AND HDL WATER PUMP IMPELLER REMOVER	T81950	
147X3372 147X3373	EVO CRANKSHAFT FLANGE LIFTER	T85441B	
147X3374	FLEX PLATE LIFTER	T85431-B	
147X3375	CAM IDLER GEAR LIFTER	T81510	
147X3376	TIER 4 MAIN BEARING CAP ROLLOVER LIFTER	T40860	
147X3377	MAIN BEARING CAP LIFTER	T80341	
147X3378	GEVO WATER OUTLET FLANGE ALIGNMENT TOOL	T87050	
147X3379	INDIVIDUAL MARINE TENSIONER	T81731M-T	
147X3380	12M X 1.75 CAPTIVE BOLTS	T85470B	
147X3381	50MM SPEEDER SOCKET	T80840-50	
147X3382	LIGHTWEIGHT 55MM SPEEDER SOCKET	T80841	
147X3383	PISTOL GRIP PNEUMATIC AIR MOTOR	T20001	
147X3384	ENGINE LIFTER SPREADER BAR - KAZ SHUNTER	TX1060	
147X3385	ENGINE/ALTERNATOR ASSEMBLY LIFTER SPREADER BAR	TX1060A	
147X3385	ENGINE LIFTER ATTACHMENT LUGS	TX1060A	
	BARING OVER MOTOR - PNEUMATIC		
147X3387		T22020	
147X3388	BARRING OVER ARBOR 13 TOOTH PINION	TX1030	
147X3389	Y-SHANK 27MM HEX	TJ1200	
147X3390	Y-SHANK 32MM HEX	TJ1210	
147X3392	FRAME SPREADER WITH HAND PUMP	TX1040	
147X3393	STUD DRIVER, M27	TX1000	
147X3394	STUD REMOVER, M27	TX1000R	
147X3395	VALVE SETTING GAUGES	TX1120	
147X3396	CONN ROD BEARING RETAINER - SET OF 2	TX1080	
147X3397	INJECTOR WASHER INSTALL/REMOVAL ADAPTOR	TJ1860	
147X3398	PISTON/LINER INSTALL CONE -HINGED	TX1310	
147X3399	WEB DEFLECTION MANDREL FOR SX	TX1340	
147X3400	MAIN BEARING REMOVAL MUSHROOM	TX1480	
147X3401	INJECTOR REMOVER LEVER	TX1500	
147X3402	INJECTOR SLEEVE TORQUE/REMOVER	TX1490	
147X3403	INJECTOR SLEEVE CARBON CLEANER	TX1510	
147X3404	CYLINDER HEAD LIFTING ADAPTER - PART OF LIFTER THAT IS ATTACHED TO HEAD	TX1470	
147X3405	LOWER POWER ASSEMBLY LIFTER	TX1410	
147X3406	ELEVATED PISTON RETAINER	TX1390	
147X3406 147X3407	ELEVATED PISTON RETAINER LINER - DISENGAGER	TX1390 TX1430	
147X3407	LINER - DISENGAGER	TX1430	
147X3407 147X3408	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING	TX1430 TX1450	
147X3407 147X3408 147X3409	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP	TX1430 TX1450 TX1370 TX1460	
147X3407 147X3408 147X3409 147X3410 147X3411	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP	TX1430 TX1450 TX1370 TX1460 TX1380	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3416	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE	TX1430 TX1450 TX1370 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418 147X3419	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH	TX1430 TX1450 TX1370 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418 147X3419	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ, DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418 147X3419 147X3419	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 T11632 T35002 T63200 T67430 T67510	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3416 147X3416 147X3417 147X3418 147X3419 147X3420 147X3421	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ, DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270	
147X3407 147X3408 147X3410 147X3411 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418 147X3419 147X3419 147X3420 147X3421	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3418 147X3420 147X3421 147X3422 147X3422	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V 50HZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY)	TX1430 TX1450 TX1370 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290 T14331	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3419 147X3420 147X3421 147X3422 147X3422 147X3423	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V 50HZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY) HYDRAULIC PUMP (40,000 PSI)	TX1430 TX1450 TX1370 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290 T14331 T50720 T50860	
147X3407 147X3408 147X3409 147X3411 147X3411 147X3413 147X3414 147X3415 147X3416 147X3417 147X3419 147X3419 147X3420 147X3421 147X3421 147X3421 147X3421 147X3423 147X3423 147X3424 147X3425 147X3426	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (-425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V 50HZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY) HYDRAULIC PUMP (40,000 PSI) TUBING SLEEVE	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T112290 T14331 T50720 T50860 T50730	
147X3407 147X3408 147X3410 147X3411 147X3411 147X3413 147X3414 147X3416 147X3416 147X3417 147X3418 147X3419 147X3420 147X3421 147X3422 147X3422 147X3423 147X3423 147X3424 147X3425 147X3426 147X3426	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 62 EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V 50HZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY) HYDRAULIC PUMP (40,000 PSI) TUBING SLEEVE GLAND NUT	TX1430 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290 T14331 T50720 T50860 T50730 T50870	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3414 147X3415 147X3416 147X3417 147X3420 147X3421 147X3422 147X3423 147X3424 147X3425 147X3424 147X3425 147X3426 147X3427 147X3427	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V 50HZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY) HYDRAULIC PUMP (40,000 PSI) TUBING SLEEVE GLAND NUT TUBING ASSY, WITH 2- T50730 SLEEVES & 2 ¿ T50870 NUTS	TX1430 TX1450 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290 T14331 T50720 T50860 T50730 T50870 T50920	
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147X3407 147X3408 147X3409 147X3410 147X3411 147X3413 147X3413 147X3415 147X3416 147X3417 147X3418 147X3419 147X3420 147X3421 147X3422 147X3422 147X3423 147X3424 147X3425 147X3427 147X3428 147X3429 147X3430 147X3431 147X3431 147X3431 147X3431 147X3433 147X3434 147X3433 147X3439 147X3440 147X3441	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V SOHZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY) HYDRAULIC PUMP (40,000 PSI) TUBING ASSY, WITH 2- T50730 SLEEVES & 2 ¿ T50870 NUTS REPLACEMENT BOLTS FOR T16065 LIFTER CYLINDER BOLT HOLD DOWN BOLT MANUAL TORQUE MULTIPLIER REACTION BRACKET U TUBE REACTION BRACKET W/SOCKET MANUAL PUMP & HOSE FOR FRAME REPLACEMENT BOLTS KIT F/785311 THUMBSCREW W/NYLON TIPS (SET OF 2) POWER ASSEMBLY STUD SAFETY FIXTURE ROTOR VANES (6 PER SET) CONICAL SLEEVE INDUCTION HEATER 230V 50HZ 1PH 3/4½ SQUARE DRIVE 7/8½ (22MM) 12 POINT DEEP IMPACT SOCKET ARM ATTACHMENT, PISTOL GRIP PNEUMATIC AIR MOTOR EXHAUST MANIFOLD ADAPTER	TX1430 TX1450 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290 T14331 T50720 T50860 T50730 T50870 T50920 T13791 T23600 T59450 T59451 TP85110P T85311BK T85312TS T40340 T16218 T85510 T80800S T19289 T57530	
147X3407 147X3408 147X3409 147X3410 147X3411 147X3412 147X3413 147X3415 147X3416 147X3417 147X3418 147X3420 147X3421 147X3422 147X3422 147X3422 147X3423 147X3424 147X3425 147X3427 147X3428 147X3427 147X3428 147X3430 147X3431 147X3431 147X3431 147X3431 147X3433 147X3433 147X3433 147X3434 147X3433 147X3433 147X3436 147X3437 147X3438 147X3438 147X3438 147X3438 147X3439 147X3438 147X3439 147X3438	LINER - DISENGAGER CONROD ALIGNMENT TOOL UNDER CAB LIFTER FOR THE POWER ASSEMBLY TOOLING UNDER CAB LIFTER FOR THE DUAL IMPELLER COOLANT PUMP/OIL PUMP HIGH PRESSURE FUEL PUMP INTERCOOLER LIFTER EMD ENGINE COMPONENT KIT 10MM UPPER WATER JUMPER ADAPTER VALVE ADJUSTMENT WRENCH WS19 DEPTH MICROMETER 6¿ EQUIPEMENTS BLOWER LIFTER TOOL J SHANK (.425") ADJUSTABLE TORQUE 3/8" SQ. DRIVE, FLEX HEAD DIGITAL TORQUE WRENCH PROTECTIVE PAD CRANKSHAFT ROD FDL MAGNETIC BASE DIAL INDICATOR 380V 50HZ 400 TON DOUBLE ACTING PUMP TUBING (ONLY) HYDRAULIC PUMP (40,000 PSI) TUBING SLEEVE GLAND NUT TUBING ASSY, WITH 2- T50730 SLEEVES & 2 ¿ T50870 NUTS REPLACEMENT BOLTS FOR T16065 LIFTER CYLINDER BOLT HOLD DOWN BOLT MANUAL TORQUE MULTIPLIER REACTION BRACKET U TUBE REACTION BRACKET W/SOCKET MANUAL PUMP & HOSE FOR FRAME REPLACEMENT BOLT KIT F/T85311 THUMBSCREW W/NYLON TIPS (SET OF 2) POWER ASSEMBLY STUD SAFETY FIXTURE ROTOR VANES (6 PER SET) CONICAL SLEEVE INDUCTION HEATER 230V 50HZ 1PH 3/4½ SQUARE DRIVE 7/8½ (22MM) 12 POINT DEEP IMPACT SOCKET ARM ATTACHMENT, PISTOL GRIP PNEUMATIC AIR MOTOR	TX1430 TX1450 TX1450 TX1370 TX1460 TX1380 TX1170 T85205KT-EMD T87400 TJ1632 T35002 T63200 T67430 T67510 T18270 T12290 T14331 T50720 T50860 T50730 T50870 T50920 T13791 T23600 T59450 T59450 T59451 TP85110P T85311BK T85312TS T40340 T16218 T85810 T80800S T19289	

147X3444	GAGE FOR THE TENSIONER PUMP, 30,000 PSI	T81731G
147X3445	CYLINDER HEAD LIFTER HORIZONTAL GEVO	T80120
147X3446	VIBRATION DAMPER LIFTER	T80250
147X3447	GEVO VALVE SPRING COMPRESSOR	T81290
147X3448	IDLER GEAR LIFTER FOR GEVO ENGINES	T85020GC
147X3449	TIER 2/3 POWER ASSEMBLY LIFTER	T85473GC
147X3450	ENGINE LIFTER CHAIN LINK	T85205LC
147X3451	LIFTER LEG F/GEVO & FDL	T85205LL-GEVOFDL
147X3452	SAFETY DUMBELL	T85205LP-SPR
147X3453	SAFETY PIN	T85205LP-SP
147X3454	LINK PIN, LIFTER LEG	T85205LP-LL
147X3455	RA REACTION ARM	T58080-RA
147X3456	REACTION SOCKET	T58080-RS
174X3270	RATCHET ADAPTER (3/8" SQUARE DRIVE, Y-SHANK)	T15931-3/8