Tools

At JLG, our goal is to help make your work easier. We offer a full line of tools to help increase your productivity. The factory approved tools offered by JLG will help you get your aerial work platform or telehandler back on the job site quicker. We offer a long list of electrical, hydraulic, drive train and general shop tools to help keep your equipment running.
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**To Place an Order**

- Online: onlineexpress2.jlg.com
- Call: 1-877-JLG-LIFT (1-877-554-5438)
- Fax: 1-800-733-8939
- Email: partsprograms@jlg.com
Calibrator
P/N 2900832
The Calibrator provides visibility to system information and enables you to adjust the speed or percentages of all functions to meet the required specs.

Model Usage: JLG 3369E, 3969E, 30E, 35E, 40E, 45E

Features & Benefits
• Allows for machine parameters to be adjusted on the job site
• The Calibrator is necessary to program earlier model JLG electric machines including 3369/3969E and 30/35/40/45E machines
• Utilizes 4 buttons to complete machine set up

Calibration Tool
P/N 7024361
The Calibration Tool is used to calibrate the joystick controller on specific JLG machines.

Model Usage: JLG DVL, MVL, MSP, DVSP

Features & Benefits
• Plugs into a socket under the joystick controller
• Machine specific tool for the above listed models

JLG Hand Held Analyzer
P/N 2901443
The Analyzer Kit is essential for programming and troubleshooting JLG aerial work platforms. This is a must-have tool for any service technician.

Model Usage: JLG AWPs featuring ADE

Features & Benefits
• Compact size tool that you can carry with you to your job site
• Quick diagnostic for fault codes
• Adjust machine parameters on the job site
• Enable and disable machine features
• Configure new options
• High contrast LCD screen
• Kit includes Analyzer, Communication Cable, and Instruction Guide

JLG Mobile Analyzer
P/N 1001147542
The new JLG Mobile Analyzer is a Wi-Fi enabled evolution of the handheld analyzer kit. The wireless analyzer allows for an extended operating range up to 150 feet.

Model Usage: JLG AWPs featuring ADE

Features & Benefits
• Compatible with iOS 5.0 and up, plus Android API 8 and up
• Works with JLG products equipped with Advanced Design Electronics (ADE)
• Available in multiple languages, with additional languages to be added
• Displays full description read-outs instead of abbreviated scrolling text
OEM Optimizer Controller
P/N 1600303
The Optimizer is used to calibrate and configure settings on OEM Controllers utilized on JLG 600SC machines.

Model Usage: Pre-ADE JLG 600SC and 660SJC

Features & Benefits
- Separate adjustments for all four channels
- Separate adjustments for each direction of handle movement
- Default settings with the touch of a button
- Adjustments can be made from the platform or ground
- Pre-ADE

Outrigger Jack Harness
P/N 4923341
The Outrigger Jack Harness is an accessory harness used to retract the outriggers on JLG T350/T500J.

Model Usage: JLG T350/T500J

Features & Benefits
- The outrigger jack harness is a complete harness with a push-button switch to activate the outriggers
- Always refer to the machine service manual before using this harness and completing repair work

Pin Extraction Tool
P/N 4460467
The Pin Extraction Tool is used to remove pin and socket contacts from Deutsch (Cannon) style connections.

Model Usage: JLG AWPs and Deutsch Connections (Cannon Plugs)

Features & Benefits
- Designed for 16-18 gauge terminals
- Allows for Deutsch style connections to be repaired versus having to replace a complete harness
- Can be used on a variety of equipment

Pin Extraction Tool
P/N 4460510
The Pin Extraction Tool is used to remove pin and socket contacts from Deutsch (Cannon) style connections.

Model Usage: JLG AWPs and Deutsch Connections (Cannon Plugs)

Features & Benefits
- Designed for 12-14 gauge terminals
- Allows for Deutsch style connections to be repaired versus having to replace a complete harness
- Can be used on a variety of equipment
**Pin Extraction Tool**

P/N 4460519

The Pin Extraction Tool is used to remove pin and socket contacts from Deutsch (Cannon) style connections.

**Model Usage:** JLG AWPs and Deutsch Connections (Cannon Plugs)

**Features & Benefits**
- Designed for 4-6 gauge terminals
- Allows for Deutsch style connections to be repaired versus having to replace a complete harness
- Can be used on a variety of equipment

---

**Pin Extraction Tool**

P/N 70010387

The Pin Extraction Tool is used to remove pin and socket contacts from the following connections: HD30 series, HDP20 series, HD10 series, and DTHD series.

**Model Usage:** JLG AWPs and Deutsch Connections

**Features & Benefits**
- Designed for 4-6 gauge terminals
- Allows for Deutsch style connections to be repaired versus having to replace a complete harness
- Can be used on a variety of equipment

---

**Pin Extraction Tool**

P/N 91143341

The Pin Extraction Tool is used to remove pin and socket contacts from the following connections: HD30 series, HDP20 series, and DTHD series.

**Model Usage:** JLG AWPs and Deutsch Connections (Cannon Plugs)

**Features & Benefits**
- Designed for 8-10 gauge terminals
- Allows for Deutsch style connections to be repaired versus having to replace a complete harness
- Can be used on a variety of equipment

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**Pin Extraction Tool**

P/N 7002817

This Pin Extraction Tool is used to remove the contacts from universal Mate-N-Lock connectors.

**Model Usage:** Mate-N-Lock Connectors

**Features & Benefits**
- Factory recommended service tool
- Allows for connections to be repaired and avoid costly harness replacement
- Designed specifically for mate-n-lock connections
Pin Extraction Tool
P/N 7002830
This Pin Extraction Tool is used to eject the electrical pins from Mini-Fit Connectors that are commonly used on JLG Vertical Mast Machines.

Model Usage: JLG Models VP, VPSP, DVL, DVSP, MVL, MSP

Features & Benefits
- Factory recommended service tool
- Allows for connections to be repaired and avoid costly harness replacement

Pin Extraction Tool
P/N 7002854
The Pin Extraction Tool is used to complete connection repairs on the electrical connections for Precision Governor Controller JLG PN 1600211.

Model Usage: JLG AWPs

Features & Benefits
- Some machines may require that the four pin connection on the harness be replaced when replacing the precision governor controller, this extraction tool is needed to complete that repair
- This tool is also part of JLG Kit 2910885

Pin Extraction Tool P&G Brake
P/N 7002842
The Pin Extraction Tool is used to remove the electrical terminals for the drive units on some JLG Vertical Mast products.

Model Usage: JLG DVL, DVSP, MSP

Features & Benefits
- Drive Motor replacement can be costly; using this factory approved and recommended tool will help reduce the risk of damaging connections

Pin Extraction Tool P&G Power
P/N 7002841
This extraction tool is used to eject the power terminals from the drive motors used on JLG Vertical Mast Products.

Model Usage: JLG DVL, DVSP, MSP

Features & Benefits
- Drive Motor replacement can be costly; using this factory approved and recommended tool will help reduce the risk of damaging connections
**Rexroth Harness**

P/N 4922012

The Rexroth Harness is used to make adjustments on Rexroth Control Cards in the platform control box.

**Model Usage:** JLG 400S/460SJ; 600S; 601S; 800A/AJ

**Features & Benefits**
- Harness includes wire, plug, housing, pins, and sockets
- Factory recommended and approved tool

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**Test Harness - Nine Pin**

P/N 4921299

The Nine Pin Test Harness was developed as an alternative to using multiple jumper wires to adjust the settings of a PQ controller.

**Model Usage:** JLG AWPs using PQ Controllers

**Features & Benefits**
- Factory Approved Test Harness
- More convenient than using jumper wires to change the settings on a PQ Controller.

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**Test Harness - Twelve Pin**

P/N 4921300

The Twelve Pin Test Harness was developed as an alternative to using multiple jumper wires to adjust the settings of a PQ controller.

**Model Usage:** JLG AWPs using PQ Controllers

**Features & Benefits**
- Factory Approved Test Harness
- More convenient than using jumper wires to change the settings on a PQ Controller.

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**USB Communication Cable**

P/N 1001137005

The USB Cable can be used on all JLG AWPs to download software or PC analyzer software.

**Model Usage:** All JLG AWPs

**Features & Benefits**
- Needed tool to connect PC to the JLG AWP
- This cable is a must have to be able to configure machine settings and options.
**ELECTRICAL TOOLS - TELEHANDLER**

**JR Power Time Extraction Tool**
P/N 7027910
This extraction tool is used to remove the connectors on JR Power Housings utilized on the JLG Compact Telehandlers.
**Model Usage:** JLG G5-19A and G6-23A

**Features & Benefits**
- Features a tool handle, tool cover with locking latches and an extraction tool tip

**Applicator Tool**
P/N 7002805
The Applicator Tool is used when completing repairs on printed circuit board terminals and disconnects.
**Model Usage:** All Equipment

**Features & Benefits**
- Allows for easy termination of pre-cut wires
- Helps position the wire to the correct depth in the terminal

**Back Probe Pin Set**
P/N 70010229
The Pin Set is used to check connections on MAP sensors as well as TPS sensors.
**Model Usage:** All Equipment

**Features & Benefits**
- Flexible 1 1/4” length
- Easy connection past weather pack seal to the connector conductors

**Battery / Alternator Tester**
P/N 7025943
The Tester can be used to perform a state of charge test on both conventional and maintenance free batteries. In addition, the Tester can be used to check for faulty regulators and defective output diodes.
**Model Usage:** All Equipment

**Features & Benefits**
- Used for both 6V and 12V systems
- Heavy duty insulated clamps
- 300 Amp jaws
Crimping Tool
P/N 7002816
This Crimping Tool is used to terminate wires ranging from 14-20 AWG.

Model Usage:  All Equipment

Features & Benefits
- Ergonomic Design
- Features “Certi-Crimp” ratchet control
- Help reduce partial crimps

Crimping Tool
P/N 7002818
This tool is used to provide a precise crimp on Deutsch style pins used in HD/HDP style “Cannon Plugs.”

Model Usage:  JLG AWPs and HD/HDP Connections

Features & Benefits
- Provides smooth ratcheting action
- More precise crimp of Deutsch pin
- Factory recommended service tool

Deutsch Crimping Tool
P/N 77363326
This Crimping Tool is to crimp Deutsch style pins and sockets ranging in size from 20-12 gauge.

Model Usage:  All Equipment

Features & Benefits
- Ergonomic design
- Help reduce partial crimps

Hand Crimping Tool
P/N 80963185
This Crimping Tool is used for crimping weather pack pin and sleeve terminals.

Model Usage:  All Equipment

Features & Benefits
- Ratcheting style tool
- Allows for a complete crimp in a single cycle
- 14-20 AWG

Pro-Crimper
P/N 7002853
This tool is used for installing and repairing connections in the field. There are several die sets available for this tool including JLG part numbers 7002849 and 7002850.

Model Usage:  JLG AWPs

Features & Benefits
- Used for AMPSEAL Contacts
- Adjustable ratchet to ensure full crimp
- Tool includes die assembly and Hand Tool Frame
- Crimp adjustment feature
**Cummins Analyzer Kit**

P/N 70010393

The Cummins Analyzer Kit is used to read fault codes, engine configurations, and to view operating parameters of a Cummins Engine.

**Model Usage:** JLG Telehandler - Includes: Prior to Tier 4i, Tier 4i and Tier 4F

**Features & Benefits**
- Kit includes handheld device, USB Cable, 9 pin data link cable, 6 pin data link cable, software, and a storage case.

**NOTES:**
- Once the QuickCheck5600 is powered ON, select Quick Check with stylus or press number 2 in keypad. The Quick Check option works with off-highway applications. The PowerSpec option works with on-highway applications.
- Software version needs to be 1.5.2.15 or later
- Latest software can be downloaded from https://cumminsengines.com/quickcheck-download

**Deutz® Decom Interface**

P/N DTZ02937571

New diagnostic software is required for the latest engine technology. JLG is now offering Decom Interface to assist with diagnosis on Deutz engines.

**Model Usage:** Deutz Tier 4/i Products

**Features & Benefits**
- Kit includes the interface and software license
- Software downloads available from Serdia.deutz.com
- ECU software programming changes
- Display measurements
- Component test
- Read/write parameters

Note: The purchase of the Deutz Decom Interface includes a free one year subscription. Cost to continue the subscription is $375/annually. To renew subscription, visit http://serdia.deutz.com.

**Fluke Multimeter**

P/N 7025118

The Fluke Multimeter is used for electrical troubleshooting to measure voltage, resistance, continuity, diode testing, and more.

**Model Usage:** All Equipment

**Features & Benefits**
- Large number display for easy reading
- Backlight for dim light areas
- Good for both AC and DC voltages and currents
- Shock and water resistant housing

**GM Diagnostic Kit**

P/N 2915221

The GM Diagnostic Kit is used to troubleshoot fault codes on a GM Engine.

**Model Usage:** JLG AWP

**Features & Benefits**
- This is a complete kit with GM Interface Cable, GM Diagnostic Cable, and GM Diagnostic Software
HD/DT Crimping & Extraction Kit
P/N 70011709
The Deutsch Tool Kit is designed to repair Deutsch style connections.

Model Usage: All Equipment

Features & Benefits
- One convenient kit with multiple tools for varying applications
- Save costs by repairing instead of replacing
- Use on a variety of equipment

Replacement Components for Kit PN 70011709

<table>
<thead>
<tr>
<th>Replacement Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>77363326</td>
<td>Deutsch Crimping Tool</td>
</tr>
<tr>
<td>80604014</td>
<td>Removal Tool</td>
</tr>
<tr>
<td>70011708</td>
<td>Pin Extraction Tool, 14-12 gauge - Orange</td>
</tr>
<tr>
<td>4460510</td>
<td>Pin Extraction Tool, 14-12 gauge - Yellow</td>
</tr>
<tr>
<td>4460467</td>
<td>Pin Extraction Tool, 18-16 gauge - Light Blue</td>
</tr>
<tr>
<td>77363227</td>
<td>Pin Extraction Tool, 18-16 gauge - Royal Blue</td>
</tr>
<tr>
<td>70011707</td>
<td>Pin Extraction Tool, 20-16 gauge - Dark Blue</td>
</tr>
<tr>
<td>4460516</td>
<td>Pin Extraction Tool, 22-16 gauge - Red</td>
</tr>
</tbody>
</table>

Magnetic Tester
P/N 70011138
This tool is an efficient and economical way of finding the north and south poles of the magnetic field.

Model Usage: JLG Equipment

Features & Benefits
- Audible indicators
- LED indicators
- Pocket clip

Oscilloscope
P/N 7025944
The auto setup function takes care of all the necessary settings and makes the measuring of waveforms another time saving step for your service technician.

Model Usage: All JLG Equipment

Features & Benefits
- Up to 2 MHz analogue bandwidth
- 5 mV to 20 V/div in 12 steps
- 200 ns to 1 hour/div time base in 32 steps
- Trigger Mode: run, normal, once, roll, slope +/-
- Frequency readout (through markers)
- High contrast LCD screen
Pin Extraction Tool
P/N 7002800
This tool is used to remove the contacts from AMP style connectors. This tool is for use on 12 Gauge terminals.
Model Usage: AMP Connectors
Features & Benefits
- Factory Recommended approved tool
- Designed specifically for AMP connections

Pin Extraction Tool
P/N 7002819
The Pin Extraction Tool is used to remove rectangular connector contacts.
Model Usage: All Equipment
Features & Benefits
- Used with .093” pin and socket contacts
- Design of the tool allows for socket contacts to be pushed out the back of the connector housing

Pin Extraction Tool
P/N 7002823
This is a universal Pin Extraction Tool that accommodates six (6) pin sizes.
Model Usage: All Equipment
Features & Benefits
- One tool allows for repair work to be done on multiple sizes and styles of pins/contacts
- This tool is a great addition to any service truck with its many applications
**Pin Extraction Tool**

P/N 7002848

This Pin Extraction Tool is used to remove pin and socket contacts from Tyco and Multimate connections.

**Model Usage:** All Equipment

**Features & Benefits**
- Works with size 16 pin and socket contacts
- Will work on 2 different style connectors

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**Pocket Sized Multimeter**

P/N 7002839

The Pocket Sized Multimeter is used for electrical troubleshooting to measure voltage, continuity, resistance, and diode testing.

**Model Usage:** All Equipment

**Features & Benefits**
- Compact size makes it ideal for job site
- Capable of performing a wide range of measurements
- Economically priced metering tool

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**QuiQ™ Programmer**

P/N 2915230

The QuiQ™ Programmer is software and tool to reprogram software that enables you to add or change the charging algorithm of your QuiQ battery charger.

**Model Usage:** JLG AWPs with QuiQ battery chargers

**Features & Benefits**
- Kit includes software, USB Cable, and Interface module
- Remove charging algorithm
- Add or change charging algorithm

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**Rechargeable Soldering Iron**

P/N 7025942

The Rechargeable Soldering Iron is used to both install electrical components as well as repair components.

**Model Usage:** All Equipment

**Features & Benefits**
- Built in work light
- Tip heat of 700 degrees can be achieved in 6 seconds
- Solder up to 100 joints per charge
Test Probe Pin
P/N 7025945
The Test Probe Pin slides onto a test probe to ensure a good connection between a circuit under test and the measuring instrument.

Model Usage: All Equipment

Features & Benefits
- Insulated to protect from shorting other wires
- Tested to 60V DC

Wire Stripper
P/N 7002828
The Wire Stripper is an all purpose wiring tool for one step strip and slug removal.

Model Usage: General

Features & Benefits
- The Wire Stripper features knife type blades and strips wire up to 7/8”
- The Wire Stripper will reduce the risk of frayed or nicked wires

AWP Service Boom Stand
P/N 4340710
The Service Boom Stand is a JLG endorsed maintenance device. This is a heavy duty structure that will support the boom of your machine during maintenance and repair.

Model Usage: JLG Boom Lifts (Excluding All Ultra Booms and 150HAX)

Features & Benefits
- Supports loads up to 3,600 lb. (1,633 kg)
- JLG endorsed
- High gauge steel construction
- Extends up to 11 feet in total height

Electric Scissor Lift Maintenance Safety Prop
P/N 1001128892
The Safety Prop is used to support partially raised scissor arms when performing maintenance.

Model Usage: JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES

Features & Benefits
- No tools required for installation
- Supports partially raised scissor arms
- Great way to reach economy order
Hand Held Torch
P/N 7024526
The Hand Held Torch is used as a plasma cutter to cut metal.
Model Usage: JLG Boom Lifts

Features & Benefits
• The Hand Held Torch can be mounted on JLG Boom Lift’s with side entry platforms
• Comes with a 20 foot cable
• Always refer to appropriate machine manuals prior to installing optional components

Hex Socket - 3/4"
P/N 4120040
This socket is a machine specific socket used to torque the wire rope adjustment nuts on the machines listed. This socket is used on the fly extend adjuster nuts.
Model Usage: JLG 1200/1350SJP

Features & Benefits
• Socket has a common 3/8" square drive
• Socket is 6" length to provide the necessary reach to adjust the boom cables

Hex Socket - 2"
P/N 4120043
This socket is a machine specific socket used to torque the wire rope adjustment nuts on the machines listed. This socket is used on the mid extend/retract and the fly boom retract adjuster nuts.
Model Usage: JLG 1200/1350SJP

Features & Benefits
• Socket has a common 1/2" square drive
• Socket is 8" length to provide the necessary reach to adjust the boom cables

Potentiometer Screwdriver
P/N 7002822
The Potentiometer Screwdriver is used to make adjustments to the potentiometer/speed controller on your machine.
Model Usage: JLG AWP's

Features & Benefits
• Convenient tool that will fit in your pocket
• Also included in kit PN 7016653
**Swing Drive Shim**
P/N 4071009
The Swing Drive Shim is used to help set the gear backlash when completing repairs on the swing drive assembly.

**Model Usage:** JLG E600

**Features & Benefits**
- Conforms to 5/7 pitch fellow stub gear tooth
- Designed to fit between the pinion and bearing high spot
- Once backlash is set shim is removed and discarded

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**Small Huck-Bolt Installation Tool**
P/N 7016652
The Small Huck-Bolt Installation Tool is used to install small huck magna-lock blind fasteners to the platform gate for any make/model machine. This tool is operated by hand-power, making it ideal for use in the field where power supplies are limited.

**Model Usage:** JLG AWPs

**Features & Benefits**
- Requires minimum operator effort to develop maximum pull

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**Wire Rope Sheave Gauge**
P/N 7016655
The Wire Rope Sheave Gauge is used to inspect the dimensions of wire rope sheaves inside the boom.

**Model Usage:** JLG Boom Lifts

**Features & Benefits**
- Technicians can use this gauge to ensure that sheaves have the proper wear and dimensions
- This part is included in JLG Special Tool Kit PN 7016653
Fork Caliper
P/N 7025304
The Fork Caliper is used to measure wear on your telehandler forks.
Model Usage: Telehandlers
Features & Benefits
• The Fork Caliper is a handy tool to let you know when forks are worn and unreliable.

Refactrometer
P/N 7001925
Check the urea content in DEF solution easily and quickly, to ensure the DEF solution is the correct specification. It is recommended by the engine manufacturer for JLG to use only DEF solutions that maintain a 32.5% (+ or -1.5%) urea content by weight.
Model Usage: JLG and SkyTrak telehandlers with Tier 4F Cummins Engines
Features & Benefits
• Easy to read Ethylene Glycol (C° and F°) scales & Diesel Exhaust Fluid (DEF) urea concentration (%) scales.
• Measures the freeze/boil-over protection of ethylene glycol based coolants & urea content in DEF
• Length of refractometer: 6.75”
• Kit includes black case, refractometer, instructions, fluid sampling pipet and calibration tool.

SmartLevel Tool - 48”
P/N 7025116
The SmartLevel is used to measure surface angles in a precise manner.
Model Usage: General
Features & Benefits
• Accurate measuring of surface angles
• Large number display
• Backlight for dim areas
• Audible tone alerts for level or plumb

Angle Finder
P/N 7025117
The Angle Finder is used to read angles ranging from 0-90 degrees in any quadrant.
Model Usage: General
Features & Benefits
• Features a magnetic base
• Includes angle and grate chart
Brake Bleeder Wrench
P/N 7025801
The Brake Bleeder wrench is used to bleed a brake system. It is essential to use the correct tool for this job to avoid rounding off the bolt.

Model Usage: General

Features & Benefits
- The Brake Bleeder Wrench features a 3/8” 6 point head and also a 7/16” 12 point head.

Drum Brake Adjustment Tool
P/N 7025800
The Drum Brake Tool is used to adjust the clearance between the brake drum and brake shoe on your equipment.

Model Usage: General

Features & Benefits
- Another multi use tool offered by JLG to make work easier around the shop and out on the job site

Magnetic Pocket Screwdriver
P/N 7016654
The Magnetic Pocket Screwdriver is a convenient tool that comes in handy around the shop or on any job site.

Model Usage: All Equipment

Features & Benefits
- Small enough to carry in your pocket
- Ideal for working in confined areas
- The driver blade has both a flat blade and a Phillips blade
- Included in JLG Special Tool Kit PN 7016653

Multi-Tow Adapter
P/N 7027854
The Multi-Tow Adapter is used to convert a 7 pole vehicle plug to a 6 pole plug and a 4 pole flat plug to fit the necessary trailer connector.

Model Usage: General

Features & Benefits
- The adapter provides two towing options
- This is a great add on to your JLG parts order
**Anti-Rotation Pin Removal Tool**
P/N 7002840
This tool is used to remove the pin when servicing the cam valves used on JLG AWP's. This valve is also known as the lockout valve and is located in the machine’s turntable.

**Model Usage:** JLG Boom Lifts

**Features & Benefits**
- This tool comes with the head, extractor, and necessary hardware.

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**Special Tool Kit**
P/N 7016653
The Special Tool Kit includes the following tools: pin extraction tools, cylinder seal tools, and screwdrivers.

**Model Usage:** JLG AWP's and Telehandlers

**Features & Benefits**
- This kit combines many of the most common JLG tools into one tool case
- JLG recommended and approved
- Great addition to any service truck

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**Tire Pressure and Tread Depth Gauge**
P/N 7025799
This digital tool is utilized to check air pressure in tires as well as measure tread depth.

**Model Usage:** General

**Features & Benefits**
- Pressure Gauge reads a range from 2 to 150 psi
- Tool has an automatic off switch to extend the life of the battery
- Compact enough to fit in your pocket

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**Tool Kit**
P/N 7014676
The Tool Kit is a great addition to any service truck. The kit contains many of the common tools needed for any job site.

**Model Usage:** General

**Features & Benefits**
- Four Piece Crescent Wrench Set
- Allen Wrench Set
- Magnetic Bit Driver Set
- Combination Wrench Set Standard Sizes
- Tool Box

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**HYDRAULIC TOOLS AWP**

**Anti-Rotation Pin Removal Tool**
P/N 7002840
This tool is used to remove the pin when servicing the cam valves used on JLG AWP's. This valve is also known as the lockout valve and is located in the machine’s turntable.

**Model Usage:** JLG Boom Lifts

**Features & Benefits**
- This tool comes with the head, extractor, and necessary hardware.
Get your equipment back on the job site more efficiently with the cylinder repair tools listed below for JLG 1200/1350SJP 1250AJP and 340AJ.

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<tr>
<th>Part Number</th>
<th>Tool Description</th>
<th>Machine Model</th>
<th>Specific Cylinder</th>
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</thead>
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<td>Head Install Sleeve</td>
<td>1200/1350SJP &amp; 1250AJP</td>
<td>Main Lift and Tower Lift Cylinder</td>
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<td>1001106847</td>
<td>Piston Install Sleeve</td>
<td>1200/1350SJP &amp; 1250AJP</td>
<td>Main Lift and Tower Lift Cylinder</td>
</tr>
<tr>
<td>1001106848</td>
<td>Piston Go Gauge Tool</td>
<td>1250AJP</td>
<td>Main Lift and Tower Lift Cylinder</td>
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<tr>
<td>1001107000</td>
<td>Head Install Sleeve</td>
<td>1250AJP</td>
<td>Upper Lift Cylinder</td>
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<tr>
<td>1001107001</td>
<td>Piston Install Sleeve</td>
<td>1250AJP</td>
<td>Upper Lift Cylinder</td>
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<td>1001107002</td>
<td>Piston Go Gauge Tool</td>
<td>1250AJP</td>
<td>Upper Lift Cylinder</td>
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<td>1001107143</td>
<td>Head Install Sleeve</td>
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<td>Tower Telescope Cylinder</td>
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<td>Piston Install Sleeve</td>
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<td>Piston Go Gauge Tool</td>
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<td>Piston Go Gauge Tool</td>
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<tr>
<td>70003077</td>
<td>Dust Wiper Press Tool</td>
<td>340AJ</td>
<td>Tower Lift and Steer Cylinder</td>
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<tr>
<td>70003078</td>
<td>Bushing Press Tool</td>
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<td>Tower Lift and Steer Cylinder</td>
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<td>Head Seal Protection Tool</td>
<td>340AJ</td>
<td>Tower Lift and Steer Cylinder</td>
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<td>70003081</td>
<td>Piston Seal Protection Tool</td>
<td>340AJ</td>
<td>Tower Lift Cylinder</td>
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<td>70003082</td>
<td>MRP Bearing Press Tool</td>
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<td>Tower Lift and Main Lift Cylinder</td>
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<td>70003089</td>
<td>Dust Wiper Press Tool</td>
<td>340AJ</td>
<td>Master, Platform, Level and Telescope Cylinder</td>
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<tr>
<td>70003090</td>
<td>Bushing Press Tool</td>
<td>340AJ</td>
<td>Master, Platform, Level, and Telescope Cylinder</td>
</tr>
</tbody>
</table>

Hydraulic Hose Removal Tool
P/N 7027247
The Hydraulic Hose Removal Tool is used to remove hydraulic pressure lines on the JLG machines listed below.

Model Usage: JLG Vertical Mast SSV10, 10MSP, 15MVL, 15MSP, 20MVL, 20MSP

Features & Benefits
- This tool features a 90 degree end for use on straight fittings and a flat end to be used on angled fittings

Valve Seat Removal Tool
P/N 70000555
The Valve Seat Removal Tool is used to remove the main relief valve located in the power packs on ES Scissor Lifts.

Model Usage: JLG ES Scissor Lift

Features & Benefits
- Reduces the risk of damaging the valve and manifold block when replacing the main relief valve on ES
Hydraulic Flow Meter
P/N 70010878
The Flow Meter is used when troubleshooting your equipment’s hydraulic system by monitoring the volume of hydraulic fluid that is flowing through the hydraulic circuit.
Model Usage: JLG Boom Lifts & Telehandlers
Features & Benefits
- The Flow Meter measures a flow range of 3-30 GPM
- Max operating pressure 3500PSI
- Utilizes a 3/4” NPT port

Hydraulic Pump Load Test Kit
P/N 70011039
The Hydraulic Pump Load Test Kit is an easier and more convenient way to load test your hydraulic pump. Verifying pressure and output flow will help identify maintenance or replacement requirements without a major investment.
Model Usage: All JLG Equipment
Features & Benefits
- Test under simulated load conditions
- No need for permanently mounted gauges
- Indication of successful new component installation
- Several JIC adapters for #4, #6, or #8 circuits
- Several additional cutouts provided for additional adapters

Quick Connect Fitting
P/N 8430045
The Quick Connect Fitting is used when hydraulic pressures are being tested or adjusted on SkyTrak and Lull machines.
Model Usage: SkyTrak and Lull Telehandlers
Features & Benefits
- 1/4”-18
- This fitting is available for purchase and is also included with Part Number 7027911

SkyTrak Pressure Test Kit
P/N 7133413
This pressure testing kit is designed specifically with SkyTrak equipment in mind.
Model Usage: SkyTrak Telehandlers
Features & Benefits
- This kit includes all necessary testing equipment such as gauges, fittings and hoses
- Kit also comes with hydraulic schematics for pre-JLG SkyTrak equipment
**Specialized Fitting**
P/N 91474611
The Specialized Fitting is needed to check hydraulic pressure on a Dana transmission.

**Model Usage:** G642A & G9-43A equipped with Dana Transmission

**Features & Benefits**
- Specific fitting designed for Dana transmission testing
- Available as a replacement part or with JLG PN 7027911

**STC Hose Tool**
P/N 7301438
The STC Hose Tool is used to remove STC style hoses from the block located in the transfer carriage for the extend / retract and lift / lower circuits.

**Model Usage:** Lull 644E/944E

**Features & Benefits**
- The STC Hose Tool is a factory approved and recommended tool to be used to release the snap lock style connections on the hoses listed above

**Stop Ring Wrench Tool - 3.75”**
P/N 7002832
The Stop Ring Wrench Tool is used to remove and install the stop rings when assembling or disassembling hydraulic cylinders.

**Model Usage:** General

**Features & Benefits**
- Factory approved and recommended tool
- Hydraulic cylinder repair made easier with the proper tools for the job
- Designed for 3.75” outside diameter sleeve or barrel

**Stop Ring Wrench Tool - 6.75”**
P/N 7002835
The Stop Ring Wrench Tool is used to remove and install the stop rings when assembling or disassembling hydraulic cylinders.

**Model Usage:** General

**Features & Benefits**
- Factory approved and recommended tool
- Hydraulic cylinder repair made easier with the proper tools for the job
- Designed for 6.75” outside diameter sleeve or barrel

**Cylinder Seal Installation Tool ("Pretzel Maker")**
P/N 7002826
This tool is used to install the cylinder rod seals when repairing a hydraulic cylinder.

**Model Usage:** General

**Features & Benefits**
- Designed for .75”-1.5” cylinder rods
- Reduces the risk of damaged or cut seals during cylinder repair
Hydraulic Pressure Dial Gauge Kit
P/N 70000652
This quality Gauge Kit is used to check and adjust operating pressures for optimum productivity of your equipment.
Model Usage: General
Features & Benefits
• Assures optimum productivity
• Easy way to check and adjust the operating pressure on your machine
• Replacement components available

Replacement Components for Kit PN 70000652

<table>
<thead>
<tr>
<th>Replacement Part Number</th>
<th>Description</th>
<th>Additional Information</th>
</tr>
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<tbody>
<tr>
<td>2220427</td>
<td>Hydraulic Quick Coupling</td>
<td>Female Style Quick Disconnect</td>
</tr>
<tr>
<td>2220428</td>
<td>Hydraulic Quick Coupling</td>
<td>Male Style Quick Disconnect</td>
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<tr>
<td>7024546</td>
<td>1/4&quot; NPT</td>
<td>SMA20-1--1/4NPT-V</td>
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<td>7024547</td>
<td>20/20 Hose Union Adapter</td>
<td>Used to Connect two SMS Hoses</td>
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<tr>
<td>7024550</td>
<td>98&quot; Hose Assembly</td>
<td></td>
</tr>
<tr>
<td>7024551</td>
<td>192&quot; Hose Assembly</td>
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<td>M16x2 by 1/2&quot; Female NPT</td>
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<td>7024548</td>
<td>1/4 NPT Gauge</td>
<td>0 to 1,000 PSI</td>
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<tr>
<td>7024549</td>
<td>1/4 NPT Gauge</td>
<td>0 to 10,000 PSI</td>
</tr>
</tbody>
</table>

Digital Hydraulic Pressure Test Kit
P/N 70000101
This high pressure digital gauge kit makes checking hydraulic pressures easier. The digital display helps reduce the potential for error in readings. This kit has a range of 8,000 psi.
Model Usage: General Usage
Features & Benefits
• User-friendly digital display
• Precise +/-5% full scale accuracy
• Replacement parts available
• Four digit display

Replacement Components for Kit PN 70000101

<table>
<thead>
<tr>
<th>Replacement Part Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>7025790</td>
<td>Short Testing Hose</td>
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<tr>
<td>7025791</td>
<td>Long Testing Hose</td>
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<tr>
<td>7025793</td>
<td>1/4&quot; Female Disconnect</td>
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<tr>
<td>7025806</td>
<td>Diagnostic Q-C Fitting</td>
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<td>91033032</td>
<td>1/4&quot; Test Adaptor</td>
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<td>91033033</td>
<td>1/8&quot; Test Adaptor</td>
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<tr>
<td>77133089</td>
<td>9/16&quot; Test Adaptor</td>
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<tr>
<td>7025794</td>
<td>Digital Gauge Only</td>
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<td>7025789</td>
<td>Direct Gauge Adaptor</td>
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<tr>
<td>7024557</td>
<td>Extra O-Rings</td>
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<tr>
<td>7024547</td>
<td>Union Fitting</td>
</tr>
<tr>
<td>7025788</td>
<td>Protective Boot</td>
</tr>
</tbody>
</table>
Deutz® Decom Interface
P/N 70025292 (Also available as P/N DTZ02937571)
New diagnostic software is required for the latest engine technology. JLG is now offering Decom Interface to assist with diagnosis on Deutz engines.

Model Usage: Deutz Tier 4/i Products
Features & Benefits
• Kit includes the interface and software license
• Software downloads available from Serdia.deutz.com
• ECU software programming changes
• Display measurements
• Component test
• Read/write parameters

Note: The purchase of the Deutz Decom Interface includes a free one year subscription. Cost to continue the subscription is $375/annually. To renew subscription, visit http://serdia.deutz.com.

GM Diagnostic Kit
P/N 2915221
The GM Diagnostic Kit is used to troubleshoot fault codes on a GM Engine.

Model Usage: JLG AWP
Features & Benefits
• This is a complete kit with GM Interface Cable, GM Diagnostic Cable, and GM Diagnostic Software

Rear Wheel Puller
P/N 2915027
The Rear Wheel Puller is used to remove the drive wheel on some JLG Vertical Mast Machines.

Model Usage: JLG SSV10 and MSP
Features & Benefits
• Can be tightened against the drive shaft to remove the drive wheels on the equipment listed
• A JLG recommended service tool

Torque Clutch Adapter Tool
P/N 0080229
The torque clutch adapter tool is used to check the torque clutch setting on JLG Vertical Mast products.

Model Usage: JLG VP, VPSP, DVL, DVSP
Features & Benefits
• Hex style adapter
• 2” Length
• The adapter tool will be used in regular intervals as part of the maintenance on your JLG Vertical
Bearing Cone Tool  
P/N  70010156  
The Bearing Cone Tool is used to assist in the reassembly of the power wheel on certain Gradall Machines.  
**Model Usage:** Gradall Telehandler Models 534D9, 534D10, and 544D  
**Features & Benefits**  
- Used to press bearing cone over the spindle  
- More efficient way to make sure bearing is properly placed versus using a hammer and a driver and less likely to damage the bearing or spindle

Carraro Spanner Socket and Adaptor Tool  
P/N  7027857 (socket) and 7027856 (adaptor)  
This tool combination is used to remove the pinion nut.  
**Model Usage:** SkyTrak Telehandlers equipped with Carraro Axles  
**Features & Benefits**  
- These tools are used in conjunction with one another to remove the pinion nut.

Carraro Bearing Cup Tool Kit  
P/N  7029574  
The Carraro Bearing Cup Tool Kit is used to help seat the bearings when assembling the pinion and central body assembly.  
**Model Usage:** Gradall Telehandlers equipped with Carraro axles  
**Features & Benefits**  
- It is important to make sure during this assembly process that the bearings are properly seated. This tool kit helps to ensure this is accomplished.

Carraro Brake Presser Tool  
P/N  8035819  
The Carraro Brake Presser Tool is used in the disassembly of the brake cylinder used on a Carraro Axle.  
**Model Usage:** Telehandlers equipped with Carraro Axle  
**Features & Benefits**  
- This tool provides the technician with a tool that will make disassembling the brake cylinder easier by releasing the snap ring  
- This multi use tool is also used during cylinder assembly to insert the negative brake piston inside the cylinder
**Carraro Bushing Driver Tool**

**P/N  91474603**

The Carraro Bushing Driver Tool is used to install the bushings in the spindle housing.

**Model Usage:** SkyTrak Model 3606 equipped with Carraro axles

**Features & Benefits**
- The Bushing Driver is a factory approved tool from Carraro that will reduce the risk of damaging bushings during installation and make sure they are installed to the correct depth.

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**Carraro Dummy Pinion Kit**

**P/N  7029575**

The Carraro Dummy Pinion Kit is used to eliminate the backlash when seating the bearings in the central body assembly.

**Model Usage:** Gradall Telehandlers equipped with Carraro axles

**Features & Benefits**
- The Dummy Pinion Kit will reduce the risk of damaging the bearings and the central body while assembling this portion of the axle.

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**Carraro Pinion Nut Tool**

**P/N  91474605**

The Carraro Pinion Nut Tool is used to unscrew the pinion nut when disassembling the Carraro Axle pinion group.

**Model Usage:** Telehandlers equipped with Carraro axles

**Features & Benefits**
- The threads on the pinion nut can be damaged if the correct tools are not used for the job. This JLG recommended service tool will reduce the risk of damaging the threads.

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**Carraro Seal Driver**

**P/N  91474613**

The Carraro Seal Driver is used to install the pinion seal into axle's central housing.

**Model Usage:** Telehandlers equipped with Carraro axles

**Features & Benefits**
- The Carraro Seal Driver helps to ensure that the pinion seal is properly seated without damaging the seal.
Carraro Seal Driver Tool
P/N 91474604
The Carraro Seal Driver is used to seal into the spindle housing on the Carraro axle listed.

Model Usage: SkyTrak Model 3606 equipped with Carraro axles

Features & Benefits
- This tool is needed to make sure that the spindle seals are properly seated during hub assembly.
- Seals can be damaged during this process if the correct tools are not used.

Carraro Wrench
P/N 8035818
This Wrench is utilized to assist in the disassembly of the differential on a Carraro Axle.

Model Usage: Telehandlers equipped with Carraro axles

Features & Benefits
- Helpful tool for unscrewing the adjuster ring nuts.
- JLG recommended service tool.

Dana Axle Brake Piston Tool
P/N 7118842
The Dana Axle Brake Piston Tool is used to assist in the installation of the axle brake piston.

Model Usage: Telehandlers equipped with Dana axles

Features & Benefits
- This tool helps to prevent sheared or pinched O-rings by rotating the piston as it is pressed into the O-rings.

Special Locknut Wrench
P/N 91144325
The Special Locknut Wrench is used to assist in the disassembly of the power wheel assembly used on certain Gradall Machines.

Model Usage: Gradall Telehandler Models 534D9, 534D10, and 544D

Features & Benefits
- The Locknut Wrench is specially designed to fit on the locknut.
- Use of this tool will reduce the risk of rounding off the nut or damaging the threads during removal.
Spindle/Shaft Drive Tool
P/N 70010157
The Spindle/Shaft Drive Tool is used to assist in the disassembly of the power wheel assembly used on certain Gradall Machines.

Model Usage: Gradall Telehandler Models 534D9, 534D10, and 544D

Features & Benefits
• The Spindle/Shaft Drive Tool is designed to bolt to the drive hub.
• Features a bolt in the center that is turned and provides the mechanic with the force needed to separate the spindle from the drive hub.
• Will reduce the risk of damaging splines.

ZF Assembly Ring
P/N 70010282
The ZF Assembly Ring is used to pre load the cup springs PN 1321208 when working on the axle brakes on the ZF Axles listed.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• The Assembly ring helps to fasten and unfasten the snap ring when pre loading the cup springs

ZF Axle Alignment Tool
P/N 7025190
The ZF Axle Alignment Tool is used to assist in proper alignment of the axle shaft.

Model Usage: Telehandlers equipped with ZF MS-T 3045, MS-T 3060, MS-T 3045II, and MS-T 3060II (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• JLG recommended service tool when working on ZF axles; having the correct tool for the job can help get your equipment back on the job site sooner

ZF Axle Two Leg Puller
P/N 70010239
This tool is considered a universal puller and is commonly used in axle disassembly to pull the planetary gear and also for pressing the tie rod end from the axle joint housing.

Model Usage: Telehandlers equipped with ZF MS-T 3045II and MS-T3060II axles (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• A universal tool that can be used for several functions during axle disassembly
• Jaw width 170mm
• Throat depth 125mm
ZF Back Off Insert
P/N  70023173
The ZF Back Off Insert is to assist in the disassembly of the output portion of the axle. This tool helps to separate the bearing inner ring from the bearing pin.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- Using the correct tool for the job can reduce machine down-time and get your equipment back up and running more efficiently

ZF Brake Seal Kit Driver
P/N  7025111
The ZF Brake Seal Kit Driver is used to install the shaft seal into the axle joint housing.

Model Usage: Telehandlers equipped with ZF

Features & Benefits
- Need to properly install the shaft seal that is included in Brake Seal Kit JLG PN 7029104.
- Use this JLG approved and recommended tool to reduce the risk of damaging the seal during repair

ZF Counter Support
P/N  70010245
This ZF Extracting Tool is used to remove the double universal joint from the axle joint housing.

Model Usage: Telehandlers equipped with ZF MS-T3045 and MS-T3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- JLG recommended service tool when working on ZF axles; having the correct tool for the job can help get your equipment back on the job site sooner

ZF Driver
P/N  700110101
The ZF Driver is used to install hub seals JLG PN 7028977 and JLG PN 1321164.

Model Usage: Telehandlers equipped with ZF MS-T 3045 and MS-T 3060 axles (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- JLG recommends use of this tool to reduce the risk of damaging seals during installation. Damaged seals can be costly and create more down time for your equipment.
ZF Extracting Tool
P/N 70010285
This ZF Extracting Tool is used to remove the double universal joint from the axle joint housing.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- Provides the mechanic with necessary tool and leverage to press off the double joint from the joint housing

ZF Extracting Tool
P/N 70010285
This ZF Extracting Tool is used to remove the double universal joint from the axle joint housing.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- Provides the mechanic with necessary tool and leverage to press off the double joint from the joint housing

ZF High-Gripper
P/N 70010240
The ZF High-Gripper is used to remove tapered roller bearing inner ring from the axle joint housing.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3060 (Including SkyTrak 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- This tool can be used in conjunction with ZF Tools PN 70010241

ZF Installer Tool
P/N 70010283
The ZF Installer Tool is used to install the slip ring into the annular grooves of the piston rod when assembling the steer cylinder.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- Using the correct tool for the job can reduce machine time and get your equipment back up and running more efficiently
**ZF Installer Tool**

P/N 70010284

The ZF Assembly Ring Tool is used to mount the slip rings onto the piston rod when assembling the steer cylinder.

**Model Usage:** Telehandlers equipped with ZF MS-T 3045 and MS-T 3060 axles (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

**Features & Benefits**

- Using the correct tool for the job can reduce machine time and get your equipment back up and running more efficiently

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**ZF Internal Extractor (45-58mm)**

P/N 70022872

The ZF Internal Extractor can be used to remove bearings in both ZF axles and ZF transmissions. This extractor can also be used to remove axle shaft seals as well as roller bearing outer rings.

**Model Usage:** Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

**Features & Benefits**

- Multi use tool for repair work on ZF axles and transmissions
- 45mm-58mm

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**ZF Internal Extractor (70-100mm)**

P/N 70022873

The ZF Internal Extractor can be used to remove bearings, seals, and bushings in ZF Axles. It is also used to remove axle shaft seals as well as roller bearing outer rings.

**Model Usage:** Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

**Features & Benefits**

- Multi use tool for repair work on ZF axles and transmissions
- 70mm-100mm

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**ZF Lock Plate Installer**

P/N 7025113

The Lock Plate Installer is used to press on the lock plate when working ZF Transmission.

**Model Usage:** SkyTrak Telehandlers 6036, 6042, 8042, 10042, 10054 and JLG G10/G12-55A

**Features & Benefits**

- This tool will work on both lock plate PN 7029033 and lock plate PN 1319469 depending on your specific application
- JLG recommended service tool
ZF Puller/Extractor
P/N  70010244
This ZF Puller/Extractor is used to remove the bushing and shaft seal from the axle casing. This tool is also used to install the double joint into the joint housing.

Model Usage: Telehandlers equipped with ZF MS-T3045 and MS-T3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• The ZF Puller/Extractor is a multi use tool
• When used as a puller this tool will assist in making sure the double universal joint is pulled into the axle joint housing until contact.

ZF Slotted Nut Wrench Tool
P/N  70010281
The ZF Slotted Nut Wrench Tool is used to install and remove the slotted nut utilized on steer cylinders on the ZF axles listed.

Model Usage: Telehandlers equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• The Nut Wrench Tool will reduce the risk of damaging or rounding off the slotted nut on the steer cylinder

ZF Seal Driver
P/N  7029738
The ZF Seal Driver is used to install shaft seal PN 1321164 or shaft seal PN 7028977 into the axle joint housing.

Model Usage: Machines equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• Using the correct tool for the job can reduce the risk of damaging seals when completing axle repairs and get your equipment back on the job site faster

ZF Seal Driver
P/N  7029739
The ZF Seal Driver is used to install shaft seal PN 8036754 into the axle joint housing.

Model Usage: Machines equipped with ZF Axle Model MS-T 3045 and MS-T 3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
• Using the correct tool for the job can reduce the risk of damaging seals when completing axle repairs and get your equipment back on the job site faster
ZF Special Brake Seal Kit Adaptor
P/N 7025110
This Adaptor is used to install the input seal that is included in brake seal kit JLG PN 7029104.

**Model Usage:** SkyTrak 6036, 6042, 8042 and Lull 644E, 944E equipped with ZF MS-T 3045 axle

**Features & Benefits**
- Attempting to install seals without the correct tools can lead to damaged seals and more machine down time
- Use this JLG approved and recommended tool to reduce the risk of damaging the seals during repair

ZF Threaded Ring
P/N 70010241
The ZF Threaded Ring is used in conjunction with the High-Gripper to remove the tapered roller bearing inner ring from the axle joint housing.

**Model Usage:** Telehandlers equipped with ZF Axle MS-T3060 (Including SkyTrak 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

**Features & Benefits**
- This tool is used in conjunction with ZF Tools PN 70010240

ZF Torque Spanner Wrench
P/N 70022867
The ZF Torque Spanner Wrench is used to check the rolling moment of the swivel bearing at the wheel ends.

**Model Usage:** Telehandlers equipped with ZF Axle MS-T3045 and MS-T3060 (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

**Features & Benefits**
- When installing new roller bearing it is essential that the upper value of rolling moment is achieved. The Torque Spanner Wrench Tool helps to ensure this is done accurately.

ZF Transfer Box Seal Installer
P/N 7025112
The Transfer Box Seal Installer is used to install shaft seal PN 1320755 into the transfer housing.

**Model Usage:** SkyTrak Telehandlers 6036, 6042, 8042, 10042, 10054 and JLG G10/G12-55A

**Features & Benefits**
- Reduce the risk of damaging seal during installation
- JLG recommended service tool
ZF Transmission Test Fitting Kit

P/N 2915159

This test fitting kit provides all of the specialized fittings required to check pressure on a ZF Transmission.

Model Usage:  Lull, SkyTrak, and JLG G-Series Telehandlers

Features & Benefits
- Kit includes the following fittings:
  - P/N 77363046 Adapter 7/16-20 JIC Male/M10
  - P/N 91403258 Adapter 1/4 SAE 37 Degree/M10/ 90 Degree
  - P/N 8430036 Nipple Diag .435

ZF Two Arm Puller

P/N  7025854

The ZF Two Arm Puller has multiple uses in completing axle repairs.

Model Usage:  Telehandlers equipped any of the following ZF Axles MS-T 3045, MS-T 3060, MS-T 3045II, MS-T 3060II (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C -54)

Features & Benefits
- Jaw width 350mm and throat depth 250mm
- Universal tool that has several functions including removing the hub from joint housing, removing the bearing inner ring from joint housing, and to press out bevel pinion from the axle housing

ZF Two Leg Puller

P/N  80304486

The ZF Two Leg Puller is used to press off the hub from the axle joint housing.

Model Usage:  Telehandlers equipped with ZF MS-T 3045, MS-T 3060, MS-T 3045II, and MS-T 3060II (Including SkyTrak 6036, 6042, 8042, 10042, 10054 and Lull 644E, 944E, 1044C-54)

Features & Benefits
- The ZF Two Leg Puller will provide the technician with factory approved tool to provide the leverage to assist in removing the hub from the axle joint housing.
### JLG AWP Boom Lifts Specialty Tools

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## JLG/Gradall Telehandler Tools

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**Indicates Top Selling Tool