

# TOOLS CATALOG



## 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.



## Table of Contents

Electrical Tools AWP .....	4-8
Electrical Tools General Usage & Telehandler .....	9-15
Miscellaneous Tools AWP .....	15-17
Miscellaneous Tools Telehandler .....	18
Miscellaneous Tools General Usage .....	18-19
Hydraulic Tools AWP & Telehandler .....	20-22
Hydraulic Tools General Usage .....	23-24
Drive Train Tools AWP .....	25
Drive Train Tools Telehandler .....	26-35
Index .....	36-38

### To Place an Order

- Online: [onlineexpress2.jlg.com](http://onlineexpress2.jlg.com)
- Call: 1-877-JLG-LIFT (1-877-554-5438)
- Fax: 1-800-733-8939
- Email: [partsprograms@jlg.com](mailto:partsprograms@jlg.com)



## 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



## 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



## 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 AWP's 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 AWP's 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 AWP's 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 AWP's 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 (Canon) style connections.

**Model Usage:** JLG AWP's and Deutsch Connections (Canon Plugs)

### Features & Benefits

- Designed for 20-24 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 AWP's 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 AWP's and Deutsch Connections (Canon 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



## 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 AWP's

### 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

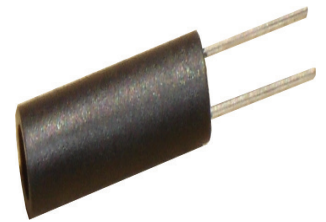
P/N 7002842

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

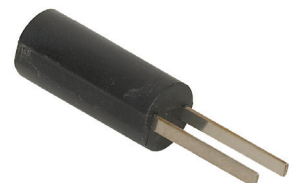
P/N 7002841

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



## Test Harness - Nine Pin

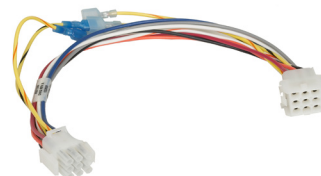
P/N 4921299

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 AWP's using PQ Controllers

### Features & Benefits

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



## Test Harness - Twelve Pin

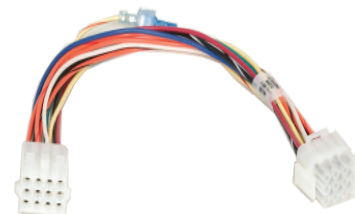
P/N 4921300

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 AWP's using PQ Controllers

### Features & Benefits

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



## USB Communication Cable

P/N 1001137005


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

**Model Usage:** All JLG AWP's

### 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.



 The cable shown is for computers with USB ports. JLG also offers cable PN 1060629 for computers using Serial style cable ports.



## •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



## •GENERAL USAGE•

### 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 AWP's 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 AWP's

### 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>



PowerSpec



QuickCheck

## 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](http://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

Replacement Part Number	Description
77363326	Deutsch Crimping Tool
80604014	Removal Tool
70011708	Pin Extraction Tool, 14-12 gauge - Orange
4460510	Pin Extraction Tool, 14-12 gauge - Yellow
4460467	Pin Extraction Tool, 18-16 gauge - Light Blue
77363227	Pin Extraction Tool, 18-16 gauge - Royal Blue
70011707	Pin Extraction Tool, 20-16 gauge - Dark Blue
4460516	Pin Extraction Tool, 22-16 gauge - Red

## 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 7027995

This extraction tool is used to remove positive lock connector contacts on your equipment.

**Model Usage:** All Equipment

### Features & Benefits

- Features a screw driver style handle for precise grip
- Factory recommended and approved tool



## 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

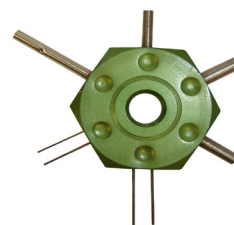
P/N 7002823

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



## 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



## 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 AWP's with QuiQ battery chargers

### Features & Benefits

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



## 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

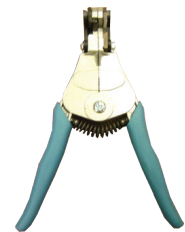
P/N 7002828

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



## •MISCELLANEOUS TOOLS AWP•

## 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

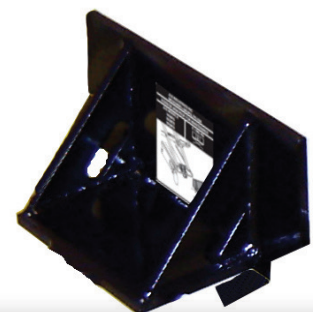
P/N 1001128892

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



## 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 AWP's

### Features & Benefits

- Requires minimum operator effort to develop maximum pull



## Swing Drive Shim

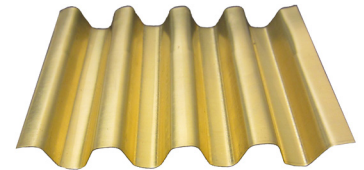
P/N 4071009

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



## 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.



## Refractometer

P/N 70011925

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.



## •GENERAL USAGE•

## 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



## 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



## 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



## 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



## •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.

Part Number	Tool Description	Machine Model	Specific Cylinder
1001106846	Head Install Sleeve	1200/1350SJP & 1250AJP	Main Lift and Tower Lift Cylinder
1001106847	Piston Install Sleeve	1200/1350SJP & 1250AJP	Main Lift and Tower Lift Cylinder
1001106848	Piston Go Gauge Tool	1250AJP	Main Lift and Tower Lift Cylinder
1001107000	Head Install Sleeve	1250AJP	Upper Lift Cylinder
1001107001	Piston Install Sleeve	1250AJP	Upper Lift Cylinder
1001107002	Piston Go Gauge Tool	1250AJP	Upper Lift Cylinder
1001107143	Head Install Sleeve	1250AJP	Tower Telescope Cylinder
1001107145	Piston Install Sleeve	1250AJP	Tower Telescope Cylinder
1001107146	Piston Go Gauge Tool	1250AJP	Tower Telescope Cylinder
1001107147	Piston Go Gauge Tool	1250AJP	Tower Telescope Cylinder
70003077	Dust Wiper Press Tool	340AJ	Tower Lift and Steer Cylinder
70003078	Bushing Press Tool	340AJ	Tower Lift and Steer Cylinder
70003080	Head Seal Protection Tool	340AJ	Tower Lift and Steer Cylinder
70003081	Piston Seal Protection Tool	340AJ	Tower Lift Cylinder
70003082	MRP Bearing Press Tool	340AJ	Tower Lift and Main Lift Cylinder
70003083	MRP Bearing Removal Tool	340AJ	Tower Lift and Main Lift Cylinder
70003089	Dust Wiper Press Tool	340AJ	Master, Platform, Level and Telescope Cylinder
70003090	Bushing Press Tool	340AJ	Master, Platform, Level, and Telescope Cylinder

## 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

877-JLG-LIFT

## 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

877-JLG-LIFT

## 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



## 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

Replacement Part Number	Description
7025790	Short Testing Hose
7025791	Long Testing Hose
7025793	1/4" Female Disconnect
7025806	Diagnostic Q-C Fitting
91033032	1/4" Test Adaptor
91033033	1/8" Test Adaptor
77133089	9/16" Test Adaptor

Replacement Part Number	Description
7025794	Digital Gauge Only
7025789	Direct Gauge Adaptor
7024557	Extra O-Rings
7024547	Union Fitting
7025788	Protective Boot

## 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

Replacement Part Number	Description	Additional Information
2220427	Hydraulic Quick Coupling	Female Style Quick Disconnect
2220428	Hydraulic Quick Coupling	Male Style Quick Disconnect
7024546	1/4 NPT	SMA20-1--1/4NPT-V
7024547	20/20 Hose Union Adapter	Used to Connect two SMS Hoses
7024550	98" Hose Assembly	
7024551	192" Hose Assembly	
7024555	1/2 UNF-V Test Fitting	M16x2 by 1/2" Female NPT
7024548	1/4 NPT Gauge	0 to 1,000 PSI
7024549	1/4 NPT Gauge	0 to 10,000 PSI



## 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](http://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

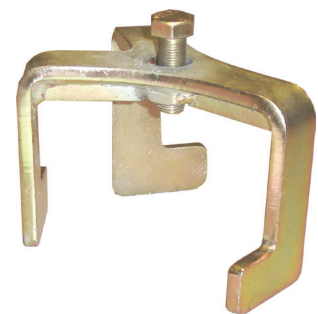
P/N 2915027

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

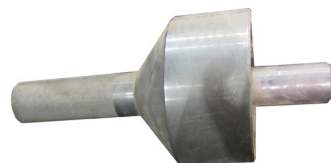
P/N 70010156

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.

877-JLG-LIFT

## 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



## 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

877-JLG-LIFT

## 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.



## 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 press seals 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

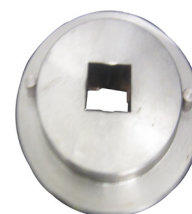
P/N 8035818

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

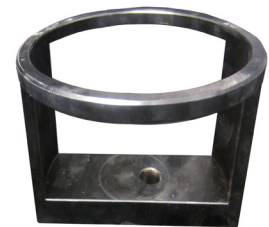
P/N 70010282

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 Driver Handle

P/N 7029740

The ZF Driver Handle is used in conjunction with ZF Seal Drivers PN 7029738 and PN 7029739.

**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 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 MS-T3045 and MS-T3060 (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 MS-T3060 (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

877-JLG-LIFT

## 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



## 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

877-JLG-LIFT

## 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



## 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

877-JLG-LIFT

## 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

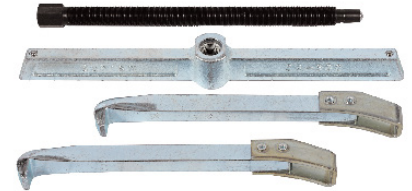
P/N 7025854

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

Model/ Part Number	Description	Page
<b>30E</b>		
2900832	Calibrator	4
<b>340AJ</b>		
70003078	Bushing Press Tool	21
70003090	Bushing Press Tool	21
70003077	Dust Wiper Press Tool	21
70003089	Dust Wiper Press Tool	21
70003080	Head Seal Protection Tool	21
70003082	MRP Bearing Press Tool	21
70003083	MRP Bearing Removal Tool	21
70003081	Piston Seal Protection Tool	21
<b>T350/500</b>		
4923341	Outrigger Jack Harness	5
<b>35E</b>		
2900832	Calibrator	4
<b>40E</b>		
2900832	Calibrator	4
<b>400S/460SJ</b>		
4922012	Rexroth Harness	8
<b>45E</b>		
2900832	Calibrator	4
<b>E600</b>		
4071009	Swing Drive Shim	17
<b>600S/660SJ</b>		
4922012	Rexroth Harness	8
<b>600SC/660SJC</b>		
1600303	Optimizer	4
<b>601S</b>		
4922012	Rexroth Harness	8
<b>800A/800AJ</b>		
4922012	Rexroth Harness	8
<b>1200/1350SJP</b>		
1001106846	Head Install Sleeve	21
1001106847	Piston Install Sleeve	21
4120040	Socket ¾"	16
4120043	Socket 2"	16
<b>1250AJP</b>		
1001106846	Head Install Sleeve	21
1001107000	Head Install Sleeve	21

Model/ Part Number	Description	Page
1001107143	Head Install Sleeve	21
1001106848	Piston Go Gauge Tool	21
1001107002	Piston Go Gauge Tool	21
1001107146	Piston Go Gauge Tool	21
1001107147	Piston Go Gauge Tool	21
1001106847	Piston Install Sleeve	21
1001107001	Piston Install Sleeve	21
1001107145	Piston Install Sleeve	21

## JLG AWP Scissor Lift Specialty Tools

Model/ Part Number	Description	Page
<b>3369/3969E</b>		
2900832	Calibrator	4
<b>1930/2030/2630/2646/3246ES</b>		
1001128892	ES Maintenance Safety Prop	15
70000555	Valve Seat Removal Tool	21

## JLG AWP Vertical Mast Specialty Tools

Model/ Part Number	Description	Page
<b>DVL/DVSP/MSP</b>		
7002841	Pin Extraction Tool	7
7002842	Pin Extraction Tool	7
<b>VP/VPSP/DVL/DVSP/MVL/MSP</b>		
7002830	Pin Extraction Tool	7
<b>DVL/MVL/MSP/DVSP</b>		
7024361	Calibration Tool	4
<b>SSV/MSP/MVL</b>		
7027247	Hyd. Hose Removal Tool	21
<b>VP/VPSP/DVL/DVSP</b>		
0080229	Torque Clutch Adapter	25
<b>SSV10/MSP</b>		
2915027	Rear Wheel Puller	25



## JLG/Gradall Telehandler Tools

Model/ Part Number	Description	Page
<b>G5-19A/G6-23A</b>		
7027910	JR Power Time Extraction	9
<b>G6-42A/G9-43A (Dana Transmission)</b>		
91474611	Specialized Fitting	23
<b>G Series</b>		
7025113	ZF Lock Plate Installer	32
2915159	ZF Trans Test Fitting Kit	35
7025112	ZF Transfer Box Seal Install	34
<b>534D9/534D10/544D</b>		
70010156	Bearing Cone Tool	26
91144325	Special Locknut Wrench	28
70010157	Spindle/Shaft Drive Tool	29

## Lull Telehandler Tools

Model/ Part Number	Description	Page
<b>644E/944E</b>		
7301438	STC Hose Tool	23
<b>644E/944E/1044C-54</b>		
7025190	ZF Alignment Tool	29
70010282	ZF Assembly Ring	29
70010239	ZF Axle Two Leg Puller	29
70023173	ZF Back Off Insert	30
7025110	ZF Brake Seal Kit Adapter	34
7025111	ZF Brake Seal Kit Driver	30
70010245	ZF Counter Support	30
700110101	ZF Driver	30
7029740	ZF Driver Handle	31
70010285	ZF Extractor	31
70010240	ZF High-Gripper	31
70010283	ZF Installer	31
70010284	ZF Installer	32
70022872	ZF Internal Extractor	32
70022873	ZF Internal Extractor	32
70010244	ZF Puller/ Extractor	33
7029738	ZF Seal Driver	33
7029739	ZF Seal Driver	33
70010281	ZF Slotted Nut Wrench	29

Model/ Part Number	Description	Page
70022867	ZF Torque Spanner	34
7025854	ZF Two Arm Puller	35
80304486	ZF Two Leg Puller	35

## SkyTrak Telehandlers

Model/ Part Number	Description	Page
<b>3606</b>		
91474603	Carraro Bushing Driver	27
91474604	Carraro Seal Driver Tool	28
7133413	SkyTrak Pressure Test Kit	22
<b>6036/6042/8042/10054</b>		
7133413	SkyTrak Pressure Test Kit	22
7025190	ZF Alignment Tool	29
70010282	ZF Assembly Ring	29
70010239	ZF Axle Two Leg Puller	29
70023173	ZF Back Off Insert	30
7025110	ZF Brake Seal Kit Adapter	34
7025111	ZF Brake Seal Kit Driver	30
70010245	ZF Counter Support	30
700110101	ZF Driver	30
7029740	ZF Driver Handle	31
70010285	ZF Extractor	31
70010240	ZF High-Gripper	31
70010283	ZF Installer	31
70010284	ZF Installer	32
70022872	ZF Internal Extractor	32
70022873	ZF Internal Extractor	32
70010244	ZF Puller/ Extractor	33
7029738	ZF Seal Driver	33
7029739	ZF Seal Driver	33
70010281	ZF Slotted Nut Wrench	33
70022867	ZF Torque Spanner	34
7025854	ZF Two Arm Puller	35
80304486	ZF Two Leg Puller	35

## Other Telehandler Tools

Model/ Part Number	Description	Page
7027856	Carraro Adaptor Tool	26
7029574	Carraro Bearing Cup Tool	26
8035819	Carraro Brake Presser Tool	26
7029575	Carraro Dummy Pinion	26
91474605	Carraro Pinion Nut Tool	27
91474613	Carraro Seal Driver	27
7027857	Carraro Spanner Socket	26
8035818	Carraro Wrench	27
7118842	Dana Axle Brake Piston Tool	28
DTZ02937571	Deutz Decom Interface	25
7025304	Fork Wear Caliper	18
70011925	Refractometer	18

## JLG Multi-Use Tools

Model/ Part Number	Description	Page
4921300	12 Pin Test Harness	8**
7002832	3.75" Stop Ring Wrench Tool	23
7025116	48" Smart Level	18
4921299	9 Pin Test Harness	8**
7025117	Angle Finder	18
7002840	Anti-Rotation Pin Removal	20**
7002805	Applicator Tool	9**
4340710	AWP Service Boom Stand	15
70010229	Back Probe Pin Set	9
7025943	Battery/Alternator Tester	9
7025801	Brake Bleeder Wrench	19
1060629	Communication Cable	8
1001137005	Communication Cable	8**
7002816	Crimper	10
80963185	Crimper	10
7002818	Crimper (Cannon Style)	10
77363326	Crimper (Deutsch)	10
70010393	Cummins Analyzer Kit	11
7002826	Cylinder Seal Install Tool	23**
70000101	Digital Pressure Kit	24
7025800	Drum Brake Adjust Tool	19
70010878	Flow Meter	22**
7025118	Fluke Multimeter	11

Model/ Part Number	Description	Page
2915221	GM Diagnostic Kit	11
7024526	Hand Held Torch	16
70011709	HD/DT Crimping & Extraction Kit	12
70000652	Hyd. Pressure Dial Kit	24
70011039	Hydraulic Load Test Kit	22
2901443	JLG Hand Held Analyzer	4**
1001147542	JLG Mobile Analyzer	4**
7016654	Magnetic Pocket Screwdriver	19
70011138	Magnetic Tester	12
7027854	Multi-Tow Adapter	19**
7025944	Oscilloscope	12
70010387	Pin Extraction Tool	6
91143341	Pin Extraction Tool	6
7002823	Pin Extraction Tool	13
7002854	Pin Extraction Tool	7
7027995	Pin Extraction Tool	13
7002817	Pin Extraction Tool	6
7002848	Pin Extraction Tool	14
7002819	Pin Extraction Tool	13
7002800	Pin Extraction Tool	13
4460510	Pin Extraction Tool (12-14)	5
4460467	Pin Extraction Tool (16-18)	5
4460519	Pin Extraction Tool (20-24)	6
7002839	Pocket Sized Meter	14
7002822	Potentiometer Screwdriver	16
7002853	Pro-Crimper	10
2915230	QuiQ Programmer	14
7025942	Rechargeable Soldering Iron	14
7016652	Small Huck Bolt Install Tool	17
7016653	Special Tool Kit	20
7025945	Test Probe Pin	15
7025799	Tire Pressure Gauge	20
7014676	Tool Kit	20
7016655	Wire Roper Sheave Gauge	17**
7002828	Wire Stripper	15**

\*\*Indicates Top Selling Tool

[illegible]

JLG Industries, Inc.  
1 JLG Drive  
McConnellsburg, PA 17233-9533  
Telephone 717-485-5161  
Toll-free in US 877-JLG-LIFT  
Fax 717-485-6417  
[www.jlg.com](http://www.jlg.com)  
An Oshkosh Corporation Company

Part No. 401002  
R1117  
Printed in USA

