Group 05 - Safety Measures

General Information - Safety - Summary of References

- General Information - Safety - Summary of References
- Recognize Safety Information
- Understand Signal Words
- Follow Safety Instructions
- Prevent Machine Runaway
- Operating the Tractor Safely
- Operating the Loader Tractor Safely
- Passenger Seat
- Use Safety Lights And Devices
- Towing Trailers/Implements Safely (Mass)
- Use Caution on Slopes and Uneven Terrain
- Freeing a Mired Machine
- Avoid Backover Accidents
- Handle Fuel Safely—Avoid Fires
- Handling Batteries Safely
- Prepare for Emergencies
- Avoid High-Pressure Fluids
- Service Cooling System Safely
- Remove Paint Before Welding or Heating
- Avoid Heating Near Pressurized Fluid Lines
- Work In Ventilated Area
- Avoid Contact with Agricultural Chemicals
- Handle Agricultural Chemicals Safely
- Stay Clear of Rotating Drivelines
- Wear Protective Clothing
- Protect Against Noise
- Practice Safe Maintenance
- Stay Away from the Hot Exhaust System
- Exhaust Filter Cleaning
- Clean Exhaust Filter Safely
- Read Operator Manuals for ISOBUS Devices
- Use Seat Belt Properly
- Park Machine Safely
- Use Proper Lifting Equipment
- Construct Dealer-Made Tools Safely
- Support Machine Properly
- Work in Clean Area
- Illuminate Work Area Safely
- Service Machines Safely
- Service Accumulator Systems Safely
- Servicing Tires Safely
- Use Proper Tools
- Service Front-Wheel Drive Tractor Safely
- Avoid Eye Contact with Radar
- Keep ROPS Installed Properly
- Replace Safety Signs
- Replace Safety Decals
- Dispose of Waste Properly
- Live With Safety
- Safety Measures on Electronic Control Units
- Servicing Electronic Control Units
- Welding Near Electronic Control Units
- Keep Electronic Control Unit Connectors Clean.
- Safety Instructions for Replacing a Halogen Bulb
- Safety Instructions for Replacing Xenon (HID) Bulbs and Ballast Units

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Group 05 - General Information - Specifications

Specifications - Summary of References

- Specifications - Summary of References
- Engine Specifications
- PTO Power Output
- Capacities Specs
- Air Intake System
- Electrical System
- Hydraulic System with Axial Piston Pump (PFC System)
- AutoTrac™
- Clutch Operation
- AutoPowr™/IVT™ Transmission
- PowrQuad PLUS™ Transmission
- AutoQuad PLUS™ Transmission
- Rear PTO
- Front PTO
- Differential
- Differential Lock
- Final Drives
- Front-Wheel Drive
- FWD Axle with TLS
- Cab Suspension
- Hydraulic Brakes
- Auxiliary Brake
- Park Lock
- Hitch
- Immobilizer
- Front Hitch
- Ground Travel Speeds
- Front and Rear Wheels
- Dimensions and Weights
- Handling and Storing Diesel Fuel
- Diesel Fuel
- Reducing the Effects of Cold Weather on Diesel Engines
- Biodiesel
- Lubricity of Diesel Fuel
- Diesel Engine Break-In Oil
- John Deere Break-In™ Plus Motor Oil
- Transmission and Hydraulic Oil
- Front-Wheel Drive Axle Oil
- Coolant for High-Performance Diesel Engines
- Supplemental Coolant Additives
- Lubricants
- Oil Filter
- Mixing of Lubricants
- Lubricant Storage
- Operating in Warm Temperature Climates
- Alternative and Synthetic Lubricants
- Unified Inch Bolt and Cap Screw Torque Values
- Metric Bolt and Screw Torque Values
- Hydraulic System Inch Fitting Torques
- Torques for Metric Fittings Used in the Hydraulic System
- Product Identification and Component Serial Number Plate
- Engine Serial Number
- Transmission Serial Number
- Front-Wheel Drive Serial Number
- Operator's Cab Serial Number
- Operator's Seat Serial Number
- Subassembly Serial Numbers

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Group 00 - Engine – Removal and Installation of Components

Engine - Removal and Installation of Components, Summary of References

Engine - Removal and Installation of Components, Summary of References

Engine - Removal and Installation of Components, Special Tools

Engine - Removal and Installation of Components, Repair Specifications

Engine Removal, Preliminary Work

Engine Removal

Engine Installation

Engine Installation, Additional Work

Engine Mounting

Replacing the Engine Mountings

Engine - Removal and Installation of Components, Special Tools

Special tools (available as spare parts)

D01042AA - load-positioning sling

JDG19 - lifting eye

JT05725 - support stand

KJD10604 - hydraulic manually operated pump with hydraulic hose and quick coupler

KJD10639 - hydraulic puller set

KJD10646 - bushing for engine mountings, removal and installation

Engine - Removal and Installation of Components, Repair Specifications

Item	Measurement	Specification
Engine-mounting screws (front)	Torque	100 N·m
		74 lb-ft
Front engine support to main frame, attaching screws	Torque	100 N·m
		74 lb-ft
Front engine mount to engine block, attaching screws	Torque	220 N·m
		162 lb-ft
Engine-mounting screw, rear	Torque	320 N·m
		235 lb-ft
Rear engine mount to main frame, attaching screws	Torque	100 N·m
		74 lb-ft

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Group 10 - Fuel System

Fuel System - Summary of References

- Fuel System - Summary of References
- Fuel Tank, Removal and Installation
- Fuel Level Sensor, Removal and Installation
- Fuel System, Bleeding

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Group 05 - Electrical System - Connectors

Electrical System - Connectors, Summary of References

Electrical System - Connectors, Summary of References

- Connectors—Special Tools, Summary of References
- Installation of the Repair Cable Kit (Smoke and Heat Exhaust System)
- General
- Using High-Pressure Washers
- Stripping Wire Ends
- Installing Electrical Terminals
- WEATHER PACK Connectors
- METRI PACK Plug with Terminal Lock at the Rear
- METRI PACK Plugs with Terminal Lock at the Front
- METRI PACK Connectors
- Connectors for Electronic Control Units
- Connector
- CRIMP SNAP IN Plugs
- KOSTAL Plugs
- DEUTSCH Plugs
- Individual Terminals
- Bosch™ Connectors
- Repair DEUTSCH™ Implement Connectors
- Repair Molex™ Connectors
- Repair SUMITOMO™ Connectors
- Repair YAZAKI™ Connectors

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Group 05 - Removal and Installation of Electronic Control Units

Electronic Control Units - Summary of References

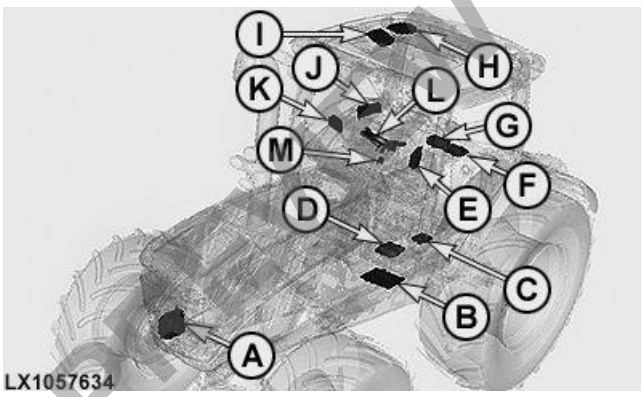
- Electronic Control Units - Summary of References
- Instructions when Replacing a Control Unit
- Control Units Location
- Roof Control Unit - Removal and Installation
- Front Chassis Control Unit (M50) - Removal and Installation
- Front Chassis Control Unit (M500) - Removal and Installation
- Cab Switch Module Control Unit - Removal and Installation
- Engine Control Unit - Removal and Installation
- Immobilizer Control Unit - Removal and Installation
- Cab Control Unit - Removal and Installation
- Air-Conditioning or ClimaTrak™ Control Unit - Removal and Installation
- Steering Control Unit (AutoTrac™) - Removal and Installation
- Instrument Unit - Removal and Installation
- CommandCenter™ Control Unit - Removal and Installation
- Rear Chassis Control Unit - Removal and Installation
- Rear Chassis Control Unit (DirectDrive Transmission) - Removal and Installation
- Control Unit for Power-Assisted Rear PTO Shifting (PAPTOS) - Removal and Installation
- Transmission Control Unit (AutoPowr™/IVT™) - Removal and Installation
- Control Unit for Gear Shifting (DirectDrive Transmission) or Range Shifting (DirectDrive Transmission) - Removal and Installation

Instructions when Replacing a Control Unit

- Do not replace a control unit with another one unless it is necessary.
- Follow the relevant diagnostic procedure to determine cause of problem.
- Special diagnostic trouble codes are shown if the control unit is defective.
- After they have been replaced, a number of the control units must be calibrated or programmed.

For more information on how to continue, see Information on Control Units (Control Software) for Programming in Section 245 of the relevant Diagnostics Manual.

Control Unit Locations



LEGEND:

A	Front Chassis Control Unit
B	Engine Control Unit
C	Rear Chassis Control Unit
D	Control Unit for Power-Assisted PTO Shifting (PAPTOS)
E	Cab Control Unit
F	Steering Control Unit (AutoTrac™)
G	Transmission Control Unit (AutoPowr™/IVT™)
H	Roof Control Unit
I	Air-Conditioning or ClimaTrak™ Control Unit
J	Cab Switch Module Control Unit
K	CommandCenter™ Control Unit
L	Instrument Unit
M	Immobilizer Control Unit

Summary

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Group 00 - Drive Train (without Transmission) - Removal and Installation of Components

Drive Train (without Transmission) - Removal and Installation of Components, Summary of References

Drive Train (without Transmission) - Removal and Installation of Components, Summary of References

Drive Train (without Transmission) - Special Tools

Drive Train (without Transmission) - Repair Specifications

Drain Transmission/Hydraulic Oil

Fill with Transmission/Hydraulic Oil

Remove the Final Drives

Install the Final Drives

Remove the Rear PTO

Install the Rear PTO

Remove the Front PTO

Install the Front PTO

Drive Train (without Transmission) - Special Tools

Special Tools (Available as Spare Parts)

JT07211 - Support Stand

KJD10559 - Mobile Support Stand for Front Axle and Final Drives

KJD10592 - Lifting Sling

KJD10604 - Manually Operated Hydraulic Pump with Hydraulic Hose and Quick Coupler

KJD10639 - Hydraulic Puller Set

KJD10662 - Cab Support

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Group 00 - AutoPowr™/IVT™ Transmission - Removal and Installation of Components

AutoPowr™/IVT™ Transmission - Removal and Installation of Components, Summary of References

AutoPowr™/IVT™ Transmission - Removal and Installation of Components, Summary of References

AutoPowr™/IVT™ Transmission - Special Tools

AutoPowr™/IVT™ Transmission - Repair Specifications

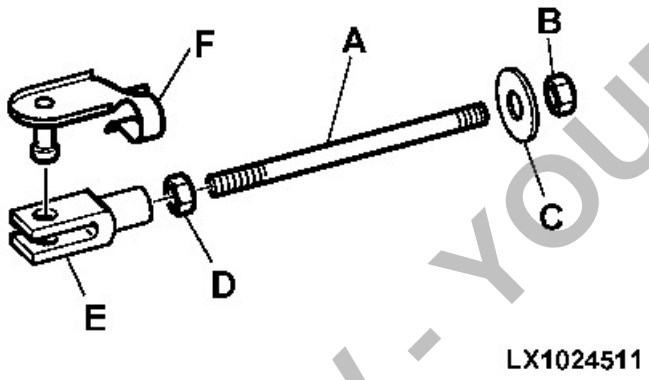
Removal of the AutoPowr™/IVT™ Transmission, Preliminary Work

Removal of the AutoPowr™/IVT™ Transmission

Installation of the AutoPowr™/IVT™ Transmission

AutoPowr™/IVT™ Transmission - Special Tools

AutoPowr™/IVT™ Transmission - Special Tools



DFLX020 — Snap Ring Tool for Unlocking the Park Lock

DFLX020 — Snap Ring Tool for Unlocking the Park Lock

Snap Ring Tool for Unlocking the Park Lock

DFLX020

Section 50B — AutoPowr™/IVT™ Transmission

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Group 10 - Steering - Hydrostatic Steering

Steering - Hydrostatic Steering, Summary of References

Steering - Hydrostatic Steering, Summary of References

- Hydrostatic Steering - Special Tools, Summary of References
- Hydrostatic Steering - Repair Specifications
- Hydrostatic Steering - Disconnecting and Connecting Steering or Brake Hoses
- Hydrostatic Steering - Exploded View
- Hydrostatic Steering - Removing the Steering Column
- Hydrostatic Steering - Removing Steering Valve
- Hydrostatic Steering - Installing Steering Valve
- Hydrostatic Steering - Install the Steering Column

Hydrostatic Steering - Special Tools, Summary of References

Hydrostatic Steering - Special Tools, Summary of References



KJD10501 - Disconnecting Tools (Kit)

KJD10501 - Disconnecting Tools (Kit)

Disconnecting Tools (Kit)

KJD10501

Section 60A — Hydrostatic Steering

Hydrostatic Steering - Repair Specifications

Item	Measurement	Specification
Steering wheel to spindle, lock nut	Torque	40 N·m
		29.5 lb-ft
Cover to housing, screws	Torque	30 N·m
		23 lb-ft
Hydraulic line, straight fittings to steering unit (connections for pressure lines)	Torque	55 N·m
		40 lb-ft
Hydraulic lines, elbow fitting to steering unit (connection for LS line)	Torque	35 N·m
		25 lb-ft
Steering Column to Console, Screws	Torque	50 N·m
		35 lb-ft

Hydrostatic Steering - Disconnecting/Connecting Steering or Brake Hoses

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Group 05 - Hydraulic System - General Information

Hydraulic System - General Information, Summary of References

Hydraulic System - General Information, Summary of References

Hydraulic System - General Safety and Repair Information

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Group 00 - Machine-Specific Systems - Removal and Installation of Components

Machine-Specific Systems - Removal and Installation of Components, Summary of References

Machine-Specific Systems - Removal and Installation of Components, Summary of References

Machine-Specific Systems - Special Tools

Machine-Specific Systems - Repair Specifications

Remove the Axle, Preliminary Work

Remove Suspended Front-Wheel Drive Axle

Remove Front-Wheel Drive Axle on 6140R and 6150R

Remove Front-Wheel Drive Axle on 6170R, 6190R and 6210R

Remove the Front Axle

Install Suspended Front-Wheel Drive Axle

Install Front-Wheel Drive Axle on 6140R and 6150R

Install Front-Wheel Drive Axle on 6170R, 6190R and 6210R

Install the Front Axle

Install the Axle, Additional Work

Remove the Front Hitch

Install the Front Hitch

Remove the Front Axle Support, Preliminary Work

Remove the Front Axle Support with Suspended Front-Wheel Drive Axle

Remove the Front Axle Support on 6140R and 6150R with Front-Wheel Drive Axle

Remove the Front Axle Support on 6170R, 6190R and 6210R with Front-Wheel Drive Axle

Remove Front Axle Support at Front Axle

Install Front Axle Support with Suspended Front-Wheel Drive Axle

Install Front Axle Support on 6140R and 6150R with Front-Wheel Drive Axle

Install Front Axle Support on 6170R, 6190R and 6210R with Front-Wheel Drive Axle

Install Front Axle Support at Front Axle

Install Front Axle Support, Additional Work

Machine-Specific Systems - Special Tools

Special tools (available as spare parts)

JT07211 - Support stand

KJD10539 - Adapter for JT07211 support stand

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Group 10 - Suspension Systems - Suspended Front-Wheel Drive Axle

Suspension Systems - Suspended Front-Wheel Drive Axle, Summary of References

Suspension Systems - Suspended Front-Wheel Drive Axle, Summary of References

- Suspension Systems - Special Tools, Summary of References
- Repair Specifications
- Relieving the Hydraulic System Pressure
- Removing and Installing the Oscillation Limiter
- Removing the Panhard Link
- Installing the Panhard Link
- Removing and Installing the Linkage
- Removing the Position Sensor of Suspended Front-Wheel Drive Axle
- Reconditioning the Position Sensor of Suspended Front-Wheel Drive Axle
- Installing the Position Sensor of Suspended Front-Wheel Drive Axle
- Remove the Hydraulic Cylinder
- Reconditioning the Hydraulic Cylinder
- Install the Hydraulic Cylinder
- Remove the control block
- Reconditioning the Valves in the Control Block
- Install the control block
- Removing and Installing the Accumulator
- Reconditioning the Accumulator
- Removing and Reconditioning the Bearing Support
- Install the Bearing Support

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Group 00 - Operator´s Cab - Installation and Removal of Components

Operator´s Cab - Installation and Removal of Components, Summary of References

Operator´s Cab - Installation and Removal of Components, Summary of References

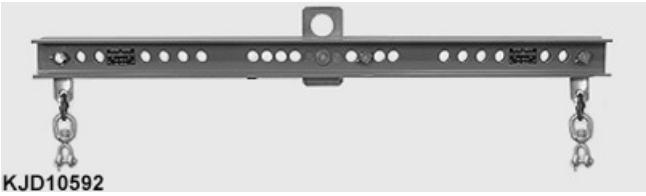
Removing the Operator´s cab - Special tools

Removing the Operator´s Cab - Screw Torques

Removing the Operator's Cab

Installing the Operator´s Cab

Removing the Operator´s cab - Special tools



KJD10592

KJD10592 lifting crossbar for installing and removing tractor components.

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Group 05 - General Information

Special Tools - General Information

For specific information on special tools, see JOHN DEERE SERVICEGARD™ Catalog.

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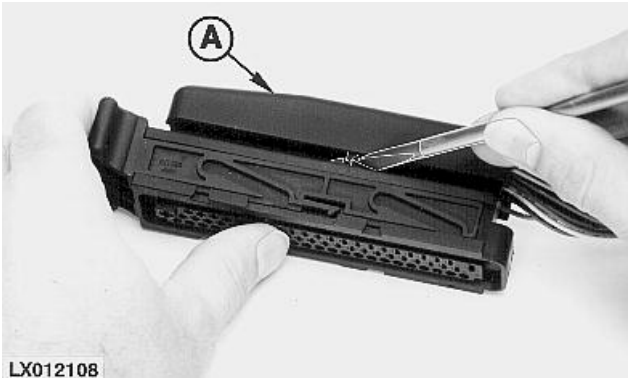
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Connectors for Electronic Control Units

45-pin or 68-pin connectors

[1] - Remove cover



Remove Cover

Remove the cable binder.

Press up locking tang and slide cover (A) to the left.

[2] - Extract female terminal



Extract Female Terminal

Use extraction tool FKM10457 (B) to press in the locking tang and extract the female terminal from the rear.

→NOTE:

Extraction tool FKM10457 is included in wiring harness repair kit FKM10461

[3] - Install wire seal

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Remove cover (E) as shown by positioning a brass drift on bevel gear (C).

[6] -

CAUTION:

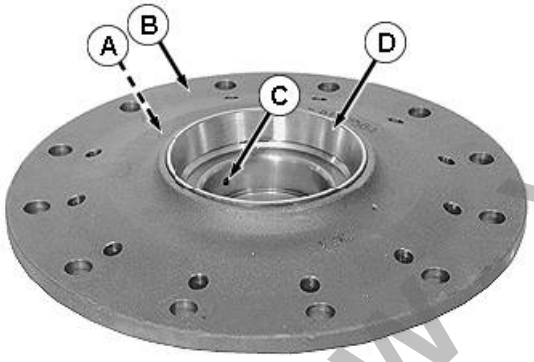
The use of air pressure for removing components may cause injury. Use only 200 kPa (2 bar) (30 psi) air pressure and position components so that the part being removed cannot cause personal injury.



LEGEND:

A	Piston
B	Cover
C	Lock piston inlet
D	Bearing cup

Bottom view

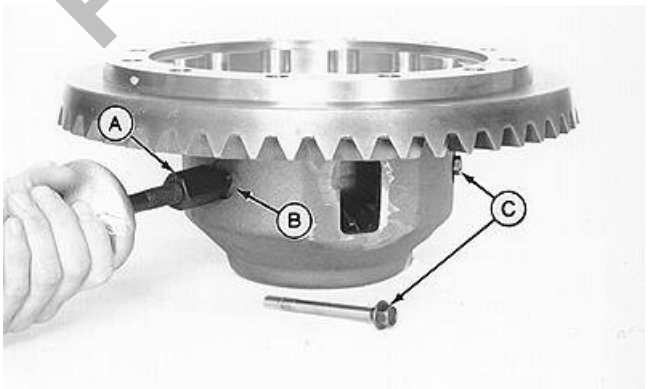


Piston and lock piston inlet

Remove piston (A) from cover (B) by applying compressed air to lock piston inlet (C).

[7] - Check bearing cup (D) for wear and replace, if necessary.

[8] -

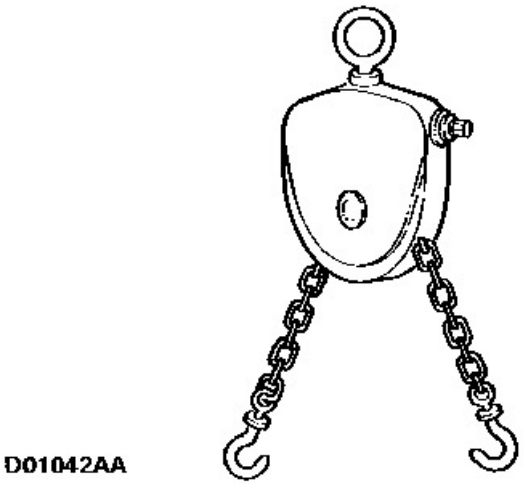


LEGEND:

A	Removal tool
B	Bevel gear shaft
C	Screws

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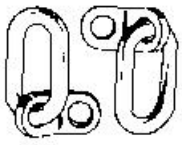
D01042AA — Load-Positioning Sling

D01042AA — Load-Positioning Sling

Load-Positioning Sling

D01042AA

Section 50B — AutoPowr™/IVT™ Transmission



JDG19 — Lifting Eye

JDG19 — Lifting Eye

Lifting Eye

JDG19

Section 50B — AutoPowr™/IVT™ Transmission

AutoPowr™/IVT™ Transmission - Repair Specifications

Item	Measurement	Specification
Output housing to differential housing, cap screws	Torque	135 N·m
		100 lb-ft
Suction Line to Input Housing, Attaching Screws	Torque	18 N·m
		13.5 lb-ft
Brace to Main Frame, Cap Screws	Torque	600 N·m
		440 lb-ft

Removal of the AutoPowr™/IVT™ Transmission, Preliminary Work

[1] - Tilting the Operator’s Cab Upward, see Section 90, Group 00.

[2] - Drain Transmission/Hydraulic Oil, see Section 50A, Group 00.

[3] - Remove front-wheel drive clutch. See Removing the Mechanical Front-Wheel Drive in Section 50A, Group 15.

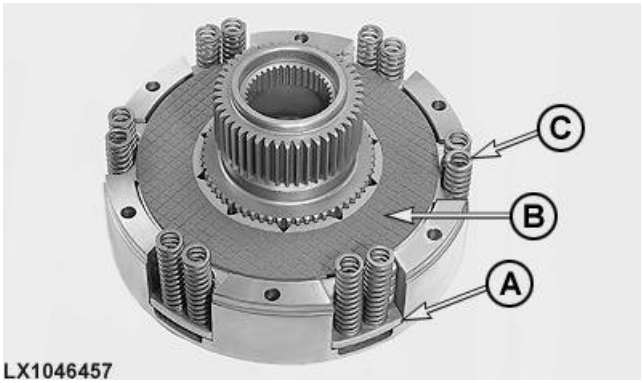
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Shim

Install two shims of the calculated thickness on the piston.

[20] -



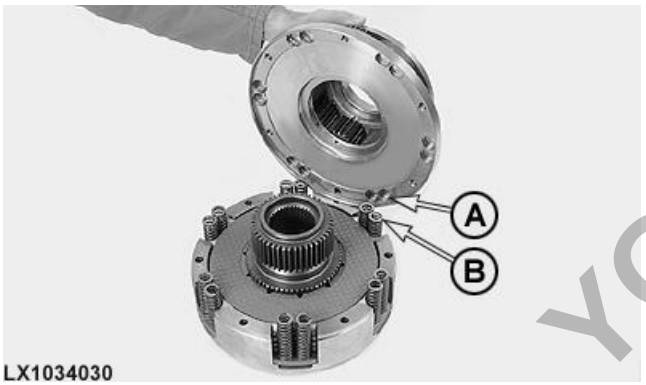
LEGEND:

A	Piston Plate
B	Disk Pack
C	Springs

Clutch

Install piston plate (A) with guide pins, disk pack (B) and springs (C).

[21] -



LEGEND:

A	Clutch Cover
B	Spring

Install Clutch Cover

Position clutch cover (A) and planetary carrier so that the blind holes for springs (B) are aligned.

[22] -



LEGEND:

A	M10 x 100 Screws

Forward Clutch with Planetary Carrier

Before turning the forward clutch with planetary carrier by 180°, install two longer screws (A).

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LEGEND:

A	Bearing

Bearing

Take out bearing (A).

[7] -



LEGEND:

A	Speed Wheel
B	Special Nut

Speed Wheel

Remove speed wheel (A), special nut (B).

[8] -



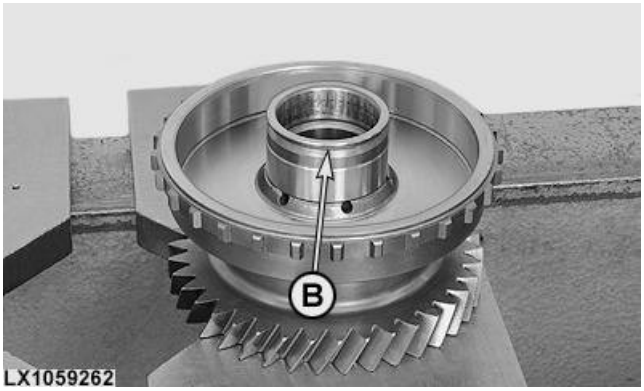
Grip half

Remove the grip half.

[9] -

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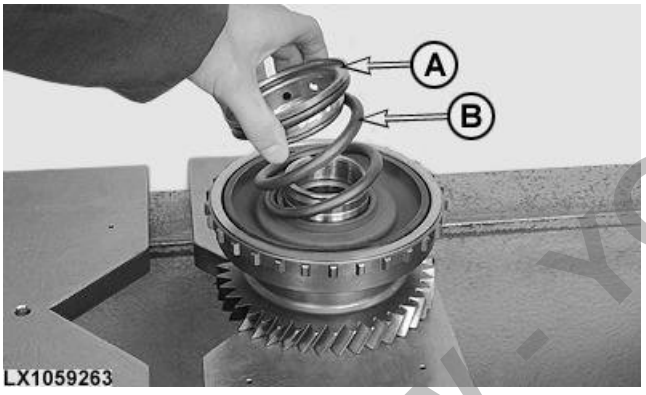
Groove

Slowly relieve tension of clutch spring using the press. Take care of spring support (A) so it does not get caught in groove (B).

CAUTION:

Danger of accidents when spring tension is relieved in an uncontrolled manner.

[11] -



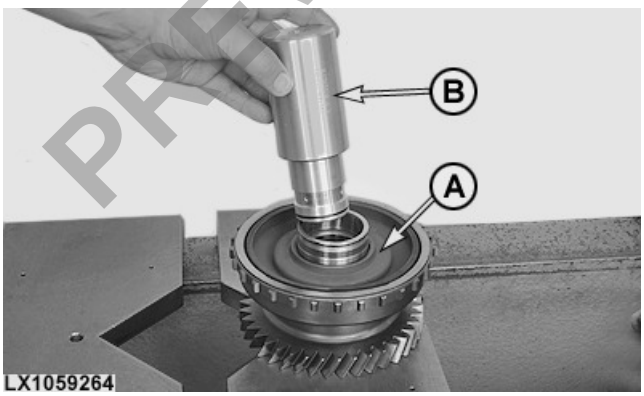
LEGEND:

A	Spring Support
B	Clutch Spring

Clutch spring

Remove spring support (A) and clutch spring (B).

[12] -



LEGEND:

A	Clutch piston
B	Removal Tool

Clutch piston

Insert removal tool (B) KJD10679-4-1into clutch piston (A).

[13] -

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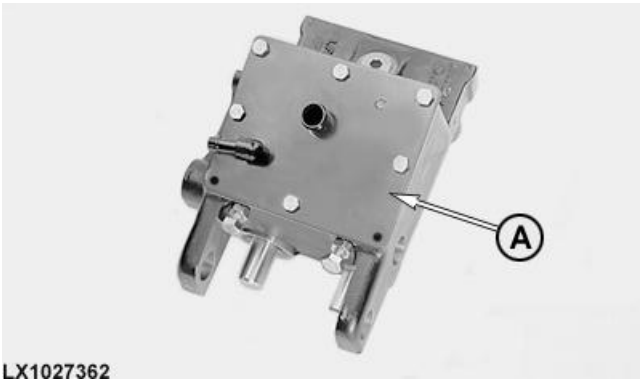
Reconditioning the Power Brake Valve

Preliminary work:

See Removing the Power-Fill Brake Valve in Section 60B.

Disassembling the brake valve

[1] -

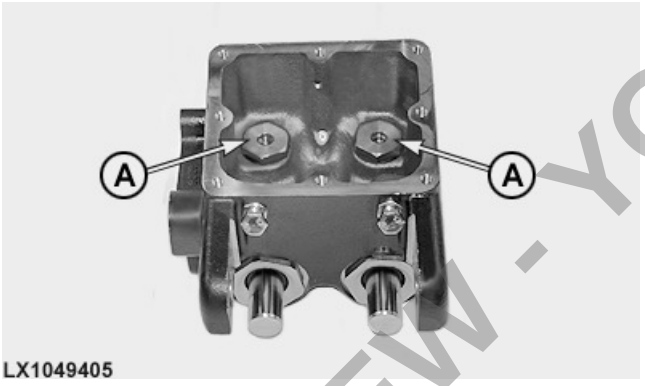


LEGEND:
A Cap

Removing the cover

Remove cover (A).

[2] -

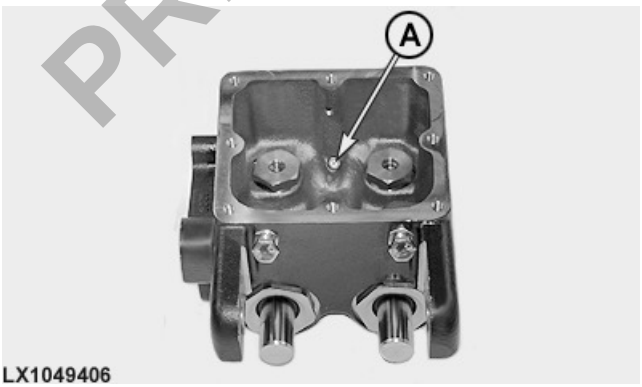


LEGEND:
A Valves

Removing the valves

Remove valves (A).

[3] -



LEGEND:
A Filter

Removing the filter

Remove filter (A).

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Install oil line (A) and connecting cable (B) on the hitch valve.

[15] - Install oil line (C) using new O-ring.

a. Oil the thread of the hex. socket screw (H) and screw in by hand.
b. Then tighten the hex. socket screws (H) crosswise, in two stages.

Item	Measurement	Specification
Hex Socket Screws		
Stage 1 (once crosswise)	Preliminary tightening torque	10 N˙m
		7.4 lb-ft
Stage 2 (twice crosswise)	Final tightening torque	60 + 6 N˙m
		44.3 + 4.4 lb-ft

[16] - Install oil lines (D) and (E).

[17] - Install the O-rings and put on HTB

[With hydraulic trailer brake]
control block using hex. socket screws (F).

Item	Measurement	Specification
Hex Socket Screws	Torque	25 ± 5 N·m
		18.4 ± 3.7 lb-ft

[18] - Install bracket

[With hydraulic trailer brake]
(G).

[19] -

→NOTE:

Pay attention to the marks made prior to removal.

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Remove the Axle, Preliminary Work

[1] - Park the tractor on firm, level ground.

Chock the rear wheels to prevent the tractor from rolling away. Engage the park lock.

[2] - In case of suspended axle, relieve the pressure in the hydraulic system. See SFA024 - Relieve Pressure in Hydraulic System of Suspended Front-Wheel Drive Axle in the corresponding Technical Manual, Section 245, control software SFA.

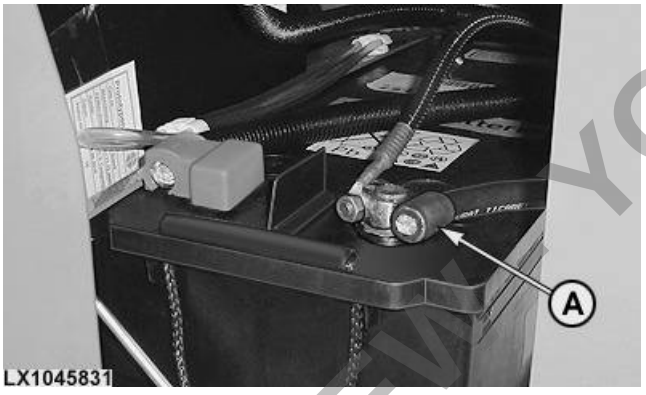
CAUTION:

Crushing hazard, do not reach into the danger zone! During this procedure, the front end of the tractor will be raised and lowered until the front axle support is finally resting on the front axle.

[3] - If the following components are equipped, remove them:

- Remove front weights.
- Remove the Front Hitch, see instructions in this Group.
- Remove the Front PTO, see Section 50, Group 00.
- Remove front fender, see Pivoting Fenderin Section 80A, Group 15.

[4] -



LEGEND:
A Negative Terminal (—)

Negative Terminal (—)

Disconnect the negative terminal (—) on the battery. On the version shown here, the negative terminal is at the location marked (A).

CAUTION:

Always be careful to observe the correct battery terminals.

Comply with safety instructions on how to handle batteries (see Section 05).

[5] -

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[2] -

IMPORTANT:

Under no circumstances use an open-ended wrench to remove or install the sensor, as this will damage the sensor.

IMPORTANT:

When removing or installing the sensor, make sure that the tool does not become skewed.

Remove and install sensor (B) using a KJD10564 special socket wrench insert (C).

Item	Measurement	Specification
Sensor	Torque	20—25 N·m
		15—18 lb-ft

For technical information on the sensor, see B167 - Suspended Front-Wheel Drive Axle Oil Pressure Sensor, Component Information in Section 249 of the relevant Diagnostic Manual.

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