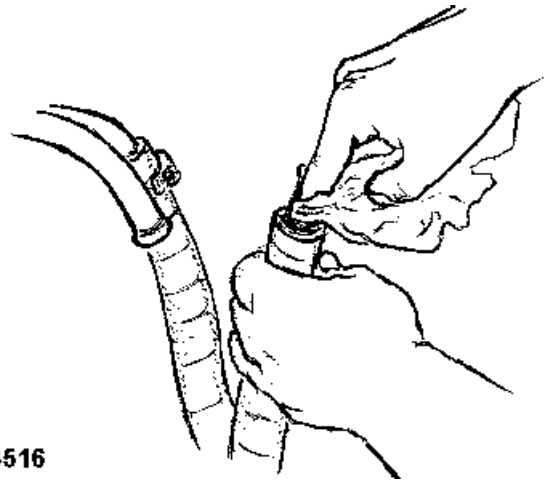
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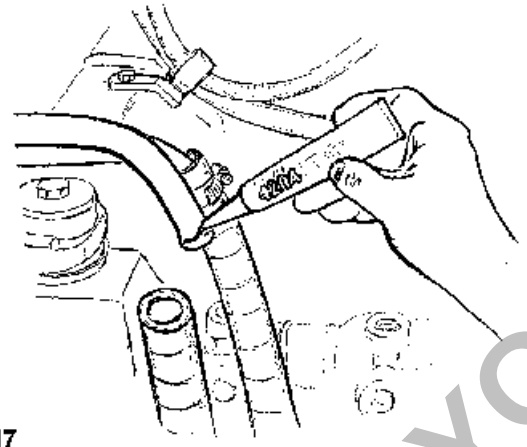
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Installing Oil Hoses



LX1023516

Cleaning the hose



LX1023517

Applying LOCTITE to the oil hoses

On all oil hoses that are secured with hose clamps, the following procedure is recommended:

[1] - Always install oil hoses that are either new or as good as new. This will ensure that the hose joints are properly seated.

[2] - Before joining the hose end to the oil line (or fitting), always clean both parts of the joint. Use lint-free cloths or paper towels in conjunction with LOCTITE cleaner.

CAUTION:

When using adhesive and cleaner, comply with the safety instructions and instructions for use provided by the manufacturer.

Number	Name	Use
• L41478 (us)	LOCTITE 7063	Cleaner
• L150641 (us)	LOCTITE 4204	Adhesive

[3] - Apply LOCTITE adhesive behind the bulbous edge of the oil line.

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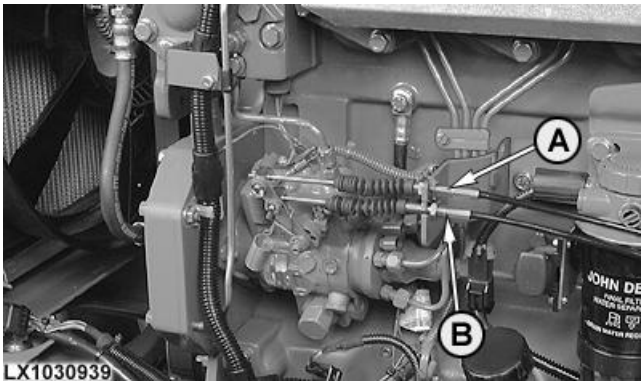
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Group 05 - Speed Control Linkage

Speed Control (Summary of References)

- "Adjust hand throttle lever and accelerator pedal"
- "Recondition hand throttle lever and accelerator pedal"

Adjust Hand Throttle Lever and Accelerator Pedal



Adjusting the hand throttle lever and accelerator pedal



Hand throttle lever

[1] - Disengage bowden cable (A).

[2] - Adjust accelerator pedal to the low idle stop using bowden cable (B) set screws

[3] - Move hand throttle lever (C) to idle position.

[4] - Engage bowden cable (A).

[5] - Adjust hand throttle lever to the low idle stop using bowden cable (A) set screws

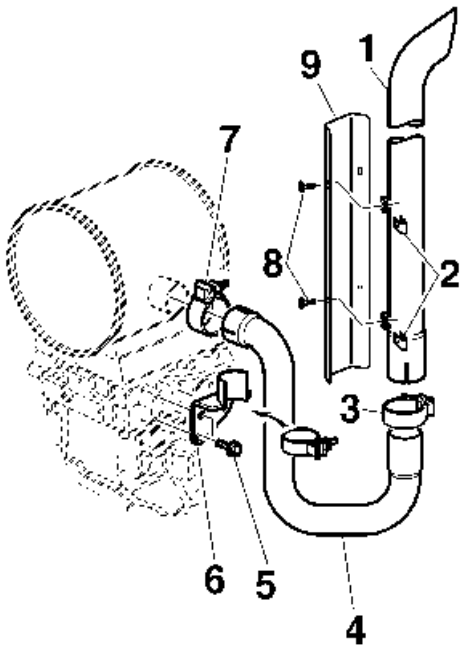
[6] - Fully operate hand throttle lever or accelerator pedal. Low idle and max. speed must be obtained individually. See Reference "Engine Specifications" , Section 10, Group 05.

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Exhaust System — Exhaust Pipe to Top Right (Upright)

Exhaust pipe or intermediate exhaust pipe



LX1028955

LEGEND:

1	Exhaust pipe
2	Special nut
3	Pipe clamp
4	Intermediate exhaust pipe
5	Flanged screw
6	Console
7	Pipe clamp
8	Pan-head screw
9	Shield

Exhaust pipe—Upright

Item	Measurement	Specification
Pipe clamp (items 3 and 7)	Torque	60—70 N˙m
		44—52 lb-ft

→NOTE:

Use paste at the pipe joints.

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Group 10 - Wiring Harnesses

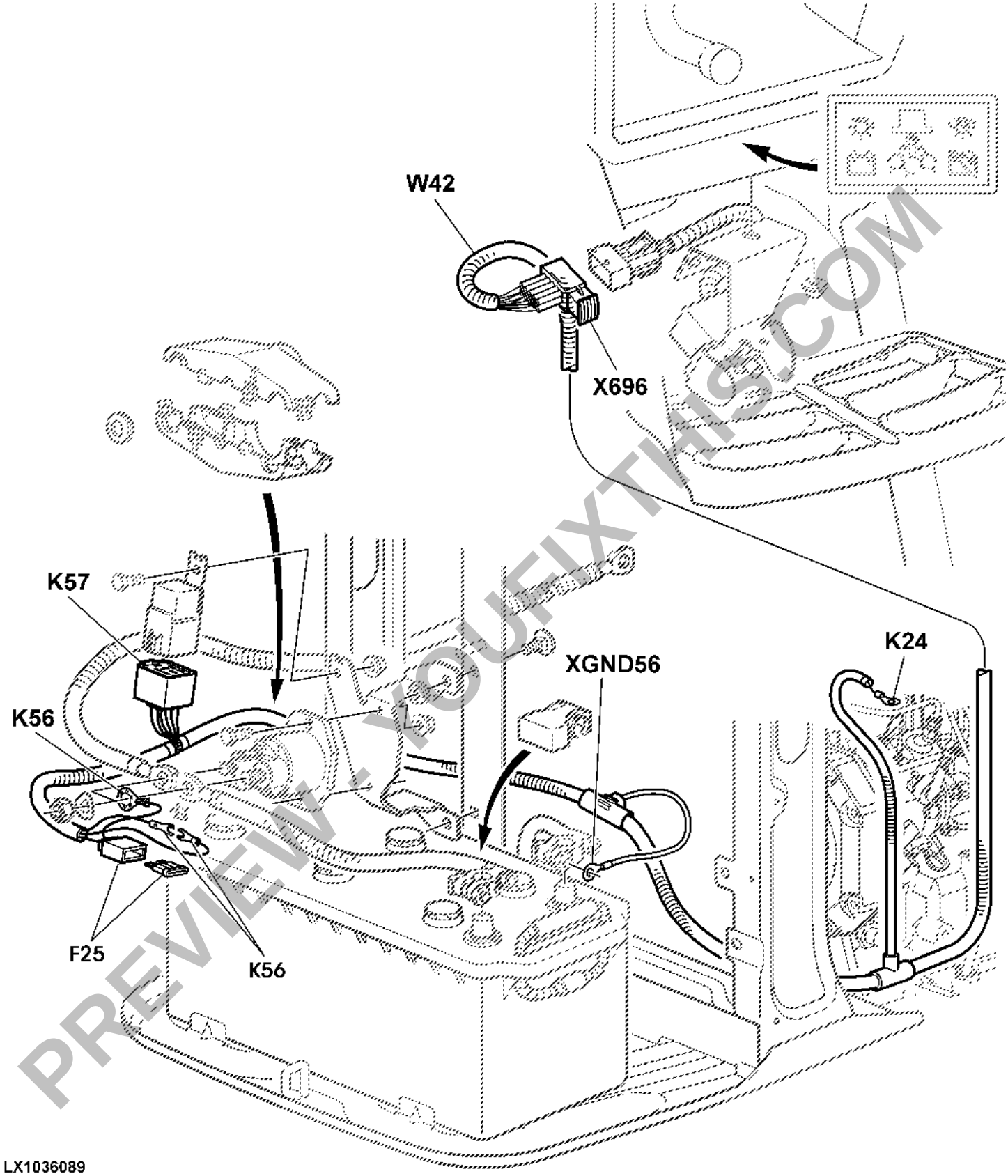
Wiring Harnesses for Tractors with PowrQuad Transmission - Reconditioning (Summary of References)

- ”Disconnecting electrical circuits”
- ”Ground point locations”
- ”Remove and install harness W01 — Power supply and starting aid”
- ”Remove and install harness W02 — Engine”
- ”Remove and install harness W04 — Headlights”
- ”Remove and install harness W07 — Front PTO”
- ”Remove and install harness W08 — Cab, for tractors with PowrQuad transmission”
- ”Remove and install harness W14 — 3-terminal power outlet socket”
- ”Remove and install harness W19 — Cab roof and fan”
- ”Remove and install harness W20 — Turn signal and clearance lights”
- ”Remove and install harness W21 — Adapter for worklights on cab roof”
- ”Remove and install harness W23 — Windshield wiper (with hinged windshield)”
- ”Remove and install harness W28 — Front end of transmission, for tractors with PowrQuad transmission”
- ”Remove and install harness W30 — Rear end of transmission”
- ”Remove and install harness W42 — Battery cut-off switch, version 1”
- ”Remove and install harness W42 — Battery cut-off switch, version 2”
- ”Remove and install harness W46 — Front PTO, adapter”

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Remove and Install Harness W42 — Battery Cut-Off Switch, Version 2



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W42 - Battery cut-off switch harness (version 2)

LEGEND:

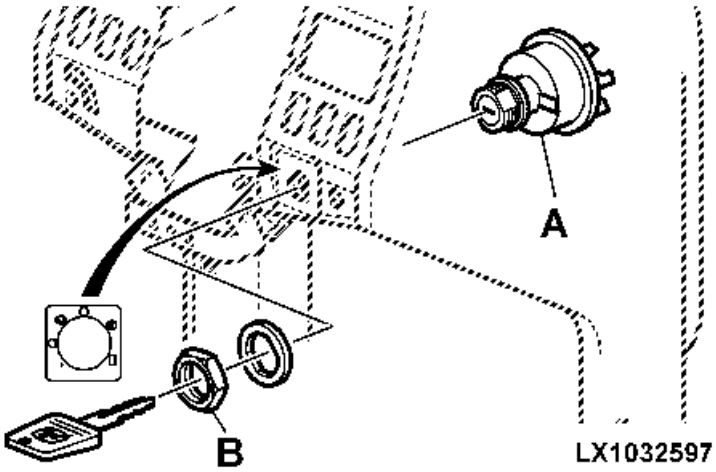
F25	Fuse for indicator light in the switch that operates the battery cut-off switch
K24/2	Terminal with ring, for injection pump shut-off valve
K56	Battery cut-off relay
K57	Relay for battery cut-off switch

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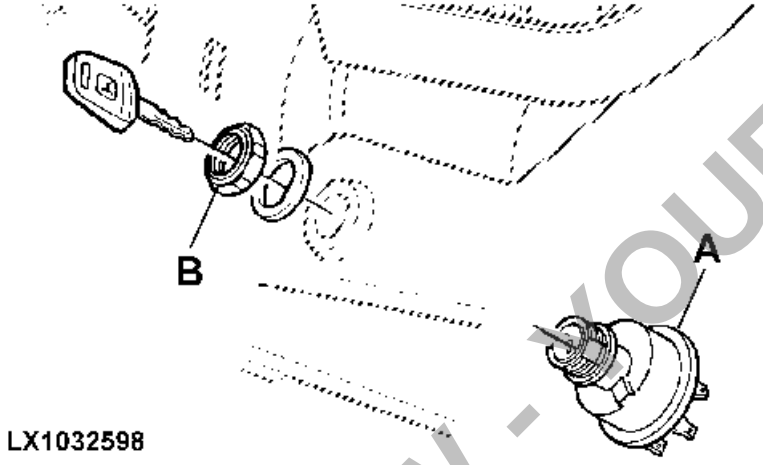
Disconnect plug (C) and replace relay.

Re-assemble all parts in reverse order.

Replace Main Switch



Tractor with PowrQuad transmission



Tractor with PowrQuad Plus transmission

LEGEND:

A	Main (key) switch
B	Special nut

If necessary: Do the preliminary work; see references “Removing the Trim Panels from the Cowl on Tractors with PowrQuad Transmission” or “Removing the Trim Panels from the Cowl on Tractors with PowrQuad Plus Transmission” in Section 40, Group 25.

CAUTION:

Disconnect negative (-) cable from battery.

Take off special nut (B) on the outside.

Pull out main (key) switch (A).

Pull out the plug and replace the main (key) switch with new one.

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Wiring harness repair kit

Repairing DEUTSCH connectors

For extracting service socket terminals refer to “ DEUTSCH Connectors ” in Section 40, Group 05.

CAUTION:

Make sure the wires are connected properly.

Service socket

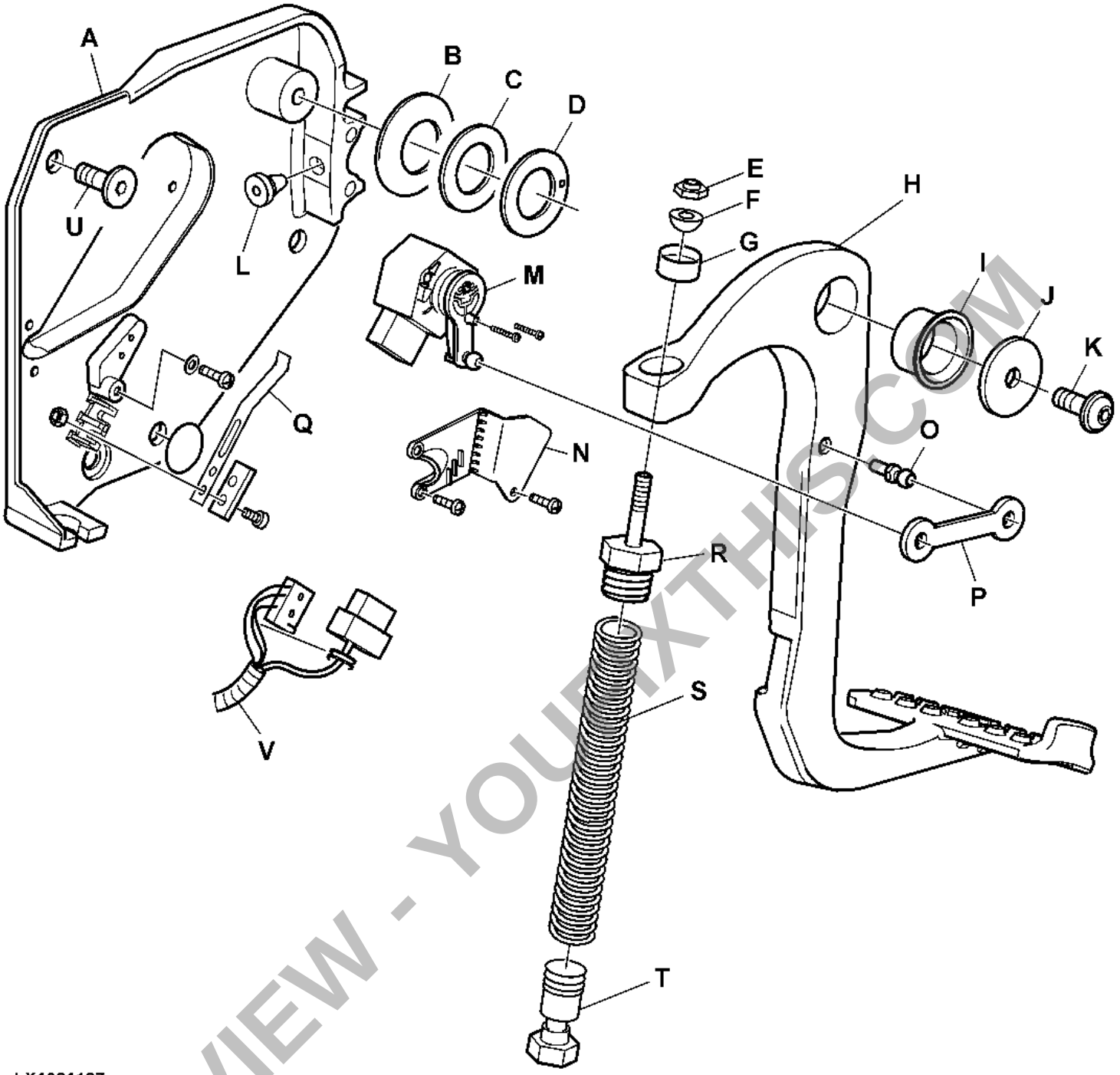
Terminal	Function	Wire no. and cross section	Wire color
A	Ground	050-1	black
B	Battery voltage	952-1	red
C	CAN-BUS	934-1	yellow
D	CAN-BUS	935-1	dark green
E	—	not used	
F	—	not used	
G	—	not used	
H	—	not used	
J	—	not used	

Connect wires to new socket.

Re-assemble all parts in reverse order.

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LX1031127

Exploded view of clutch pedal

LEGEND:

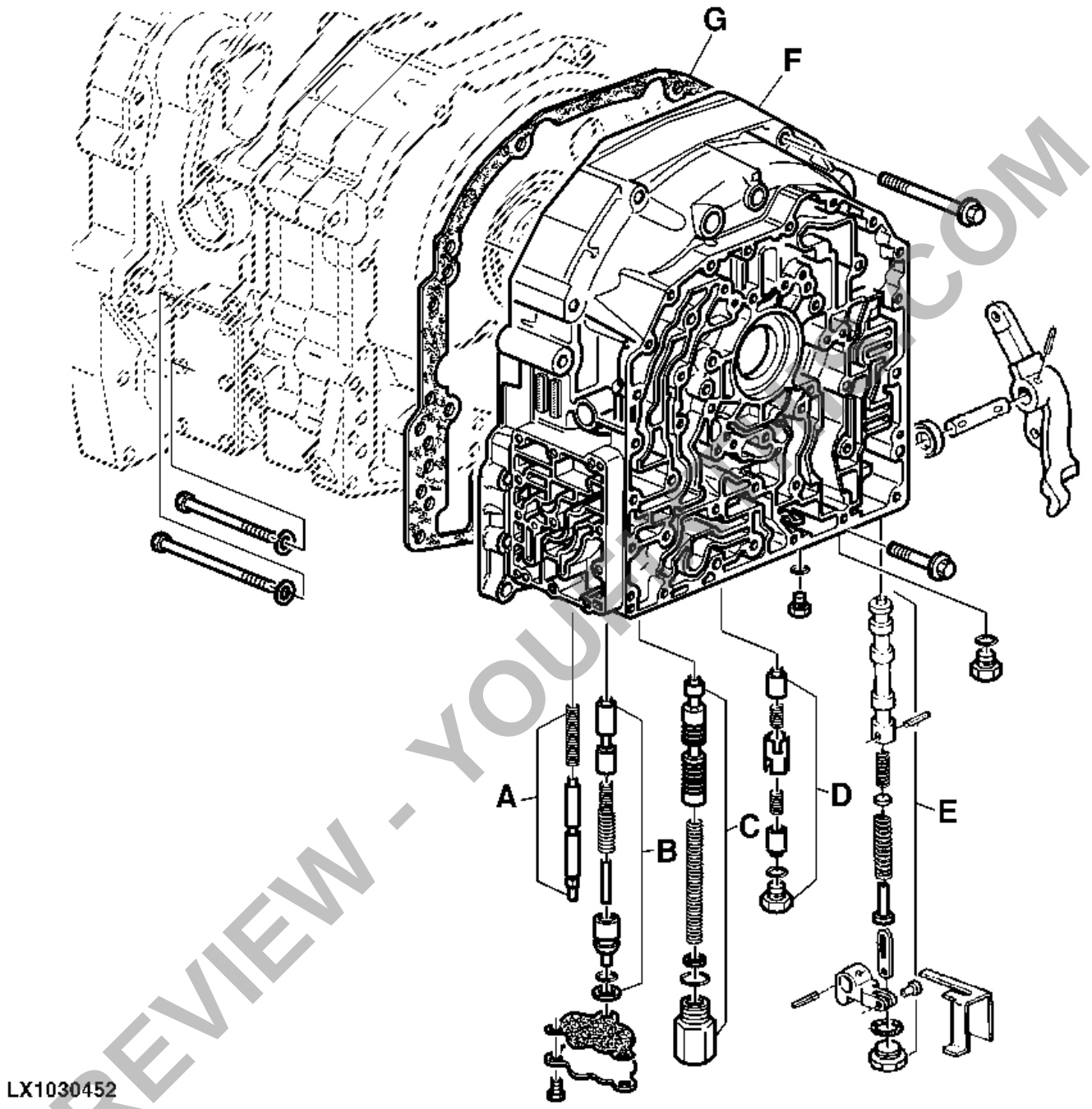
A	Console
B	Belleville spring
C	Back-up ring
D	Friction washer
E	Hex. nut
F	Retainer
G	Ball socket
H	Clutch pedal
I	Bushing
J	Washer
K	Self-locking fillister screw
L	Stop
M	Potentiometer (B65)
N	Cover
O	Ball end
P	Ball joint assembly

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Removing and Installing the Valves in the Front Transmission Cover (with Mech. Actuated PowrQuad Module)

Exploded view, front transmission cover



Valves in front transmission cover

LEGEND:

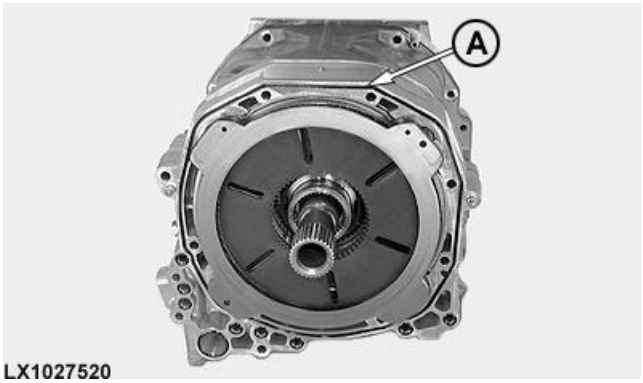
A	Return valve, gear-to-gear modulation
B	Gear-to-gear modulator valve and accumulator (gear-to-gear modulation)
C	Pressure-regulating valve
D	Cooling oil control valves and clutch cooling valve
E	Clutch pedal valve
F	Housing
G	Gasket

Reconditioning the return valve of the gear-to-gear modulator valve

[1] -

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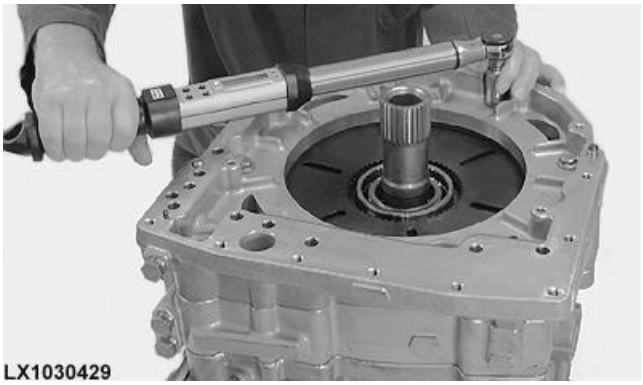
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B1 brake housing, seal ring and O-rings

Insert seal ring (A) and the O-rings.

[2] -



Tightening the B1 brake housing

Install the B1 brake housing. Make sure that the seal ring and O-rings are seated correctly.

[3] - Tighten the attaching screws evenly.

Item	Measurement	Specification
B1 brake housing, attaching screws	Torque	60 N˙m 44 lb-ft

Final assembly:

See reference “Installing the Gear-Shift Planetary Drive” in this Group.

Removing the B2-B3 Brake Housing

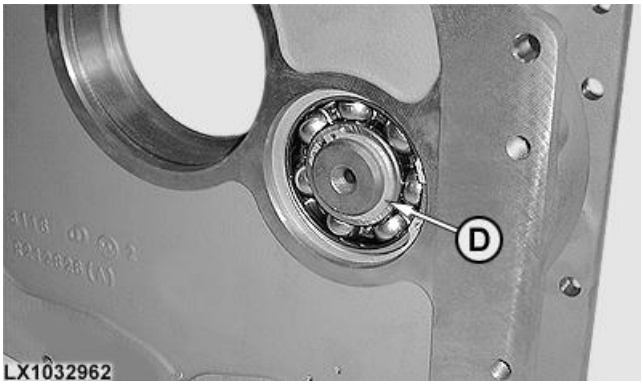
Preliminary work:

See reference “Removing the B1 Brake Housing” in this Group.

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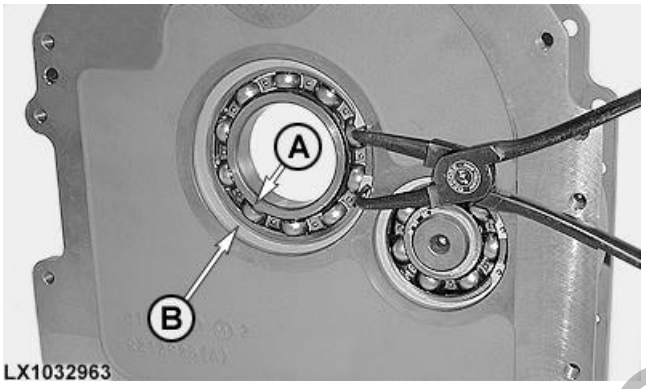
[3] -



Inner snap ring

Install inner snap ring (D).

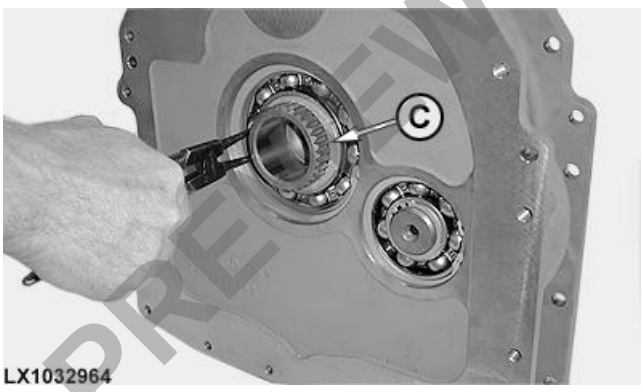
[4] -



Outer snap ring

Install ball bearing (A) and snap ring (B).

[5] -



Inner snap ring

Insert shaft and install snap ring (C).

[6] -

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Group 00 - Removal and Installation of Components

Removal and Installation of Components (Summary of References)

Before removing and installing components, see the following references:

- ”Specifications”
- ”Remove front-wheel drive clutch”
- ”Install front-wheel drive clutch”
- ”Remove differential housing”
- ”Install differential housing”
- ”Remove final drives”
- ”Install final drives”
- ”Remove rear PTO”
- ”Install rear PTO”
- ”Remove front PTO”
- ”Install front PTO”

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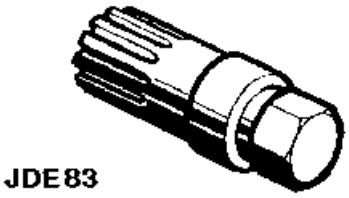
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→NOTE:

Use flywheel turning tool JDE83 to change position of torsion damper.

Flywheel turning tool

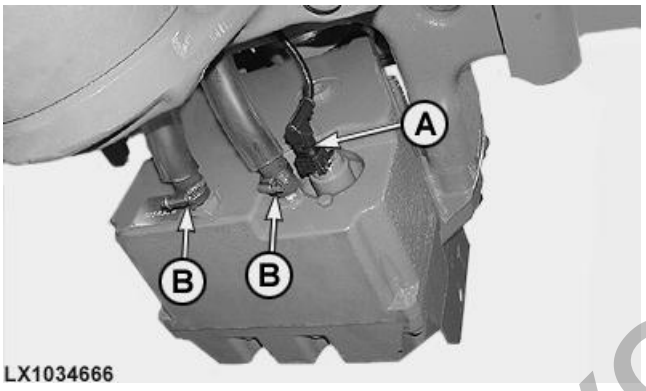
JDE83



JDE83

Turning flywheel on 4-cylinder engines

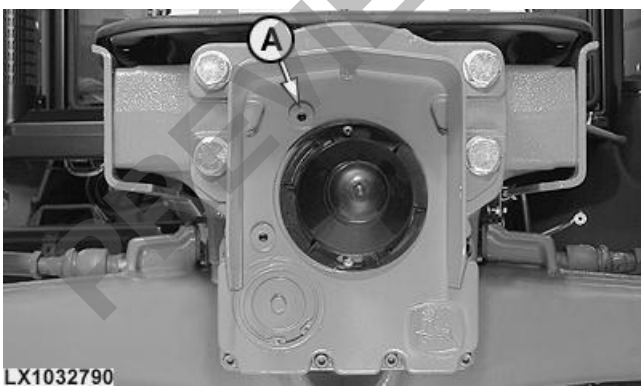
[10] - Install oil coolers hoses (B) on the front PTO as shown, and tighten.



Oil cooler hoses and connectors

[11] - Connect the solenoid valve to plug (A).

[12] -



Front PTO filler screw

Take out filler screw (A) and add transmission/hydraulic oil.

Item	Measurement	Specification
Front PTO	Oil capacity	3.1 L 0.82 U.S. gal.

Install filler screw (A), and tighten.

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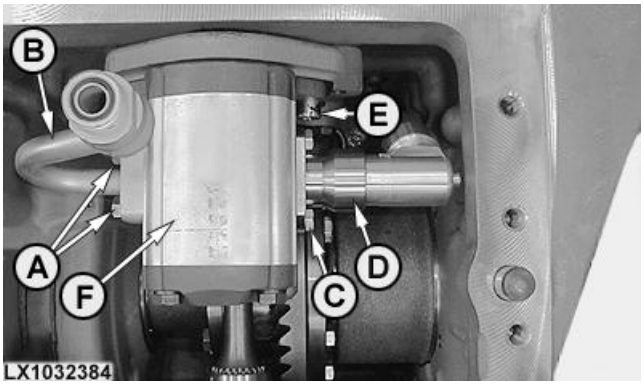
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Remove Differential

For preliminary work, see the following references:

- Reference "Remove Operator's Cab" in Section 90, Group 00.
- Reference "Remove Final Drives" in Section 56, Group 00.
- Reference "Remove and Install Rockshaft Housing" in Section 70, Group 20.
- Reference "Remove Rear PTO" in Section 56, Group 00.
- Reference "Remove Differential Lock" in this Group.

[1] - Unfasten screws (A) and remove pressure line (B).

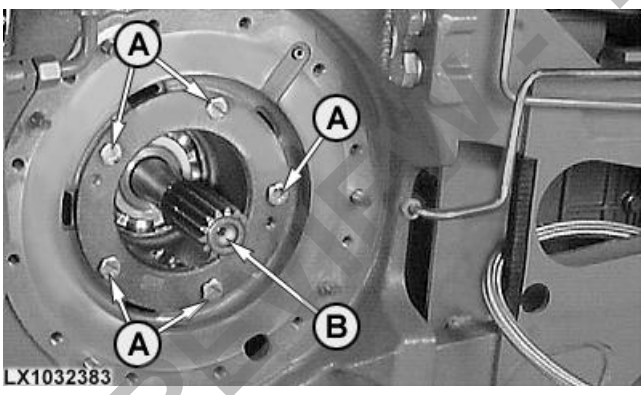


Removing the hydraulic pump

[2] - Unfasten screws (C) and remove suction tube (D).

[3] - Take out screws (E) and remove hydraulic pump (F).

[4] - Take out screws (A) and pull final drive shaft (B).



Bearing quill

[5] - Remove bearing quill (A).

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Group 30 - Rear PTO

Rear PTO — Reconditioning (Summary of References)

Before reconditioning the rear PTO, refer to the following:

- ”Replace output shaft seal ring”
- ”Remove PTO clutch”
- ”Exploded view of PTO clutch”
- ”Recondition PTO clutch”
- ”Install PTO clutch”
- ”Disassemble PTO drive train”
- ”Recondition output shaft (540/540E/1000 rpm)”
- ”Recondition output shaft (540/540E rpm)—Exploded view”
- ”Recondition countershaft (540/540E and 540/540E/1000 rpm)”
- ”Assemble PTO shifter (540/540E and 540/540E/1000 rpm)”
- ”Assemble PTO drive train”
- ”Install support and adjust taper roller bearings”
- ”Remove PTO modulating valve”
- ”Recondition PTO modulating valve”
- ”Install PTO modulating valve”
- ”Recondition solenoid valve”
- ”Replace PTO speed sending unit”
- ”Change and adjust bowden cable”

Other Material

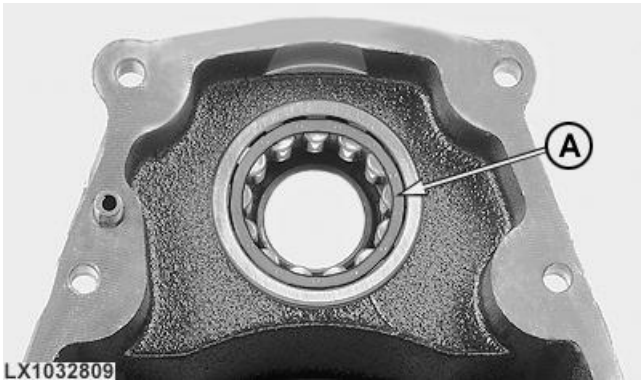
Number	Name	Use
• L64500 (loctite)	Flexible sealant	Sealing the surfaces on the rear PTO

Specifications

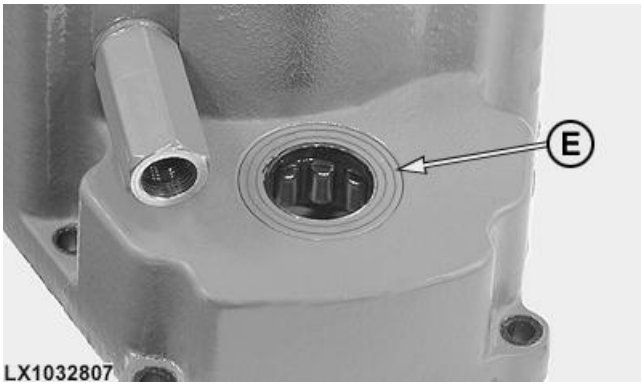
Item	Measurement	Specification
Cover to clutch drum, hex. socket screws	Torque	25 N˙m
		16 lb-ft
PTO shift detent, cap screw	Torque	25 N˙m
		17 lb-ft
Shifter shaft bearing support to PTO housing, cap screws	Torque	70 N˙m
		52 lb-ft
Support to PTO housing, cap screw	Torque	50 N˙m
		37 lb-ft
Support installation, output shaft and drive shaft	Preload	0.07 mm
		0.0028 in.
	Play	0.08 mm
		0.0031 in.
Modulating valve, strength of spring A	Free length	approx. 70 mm
		approx. 2.75 in.
	Test length	43.5 mm at 105 to 130 N
		1.7 in. at 23.6 to 29.3 lb
Modulating valve, strength of spring B	Free length	approx. 100 mm
		approx. 3.95 in.
	Test length	60 mm at 68.5 to 84.5 N
		0.35 in. at 15.4 to 19 lb
PTO modulating valve to PTO housing, cap screws	Torque	16 N˙m
		12 lb-ft
Solenoid valve flange, cap screw	Torque	10 N˙m
		7.5 lb-ft
Solenoid valve coil, hex. nut	Torque	3.5 N˙m

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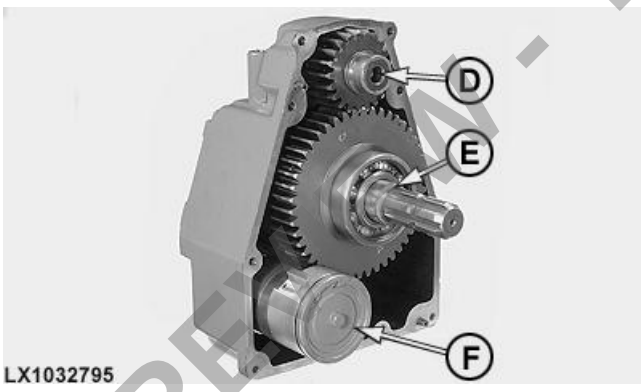
Installing the bearing



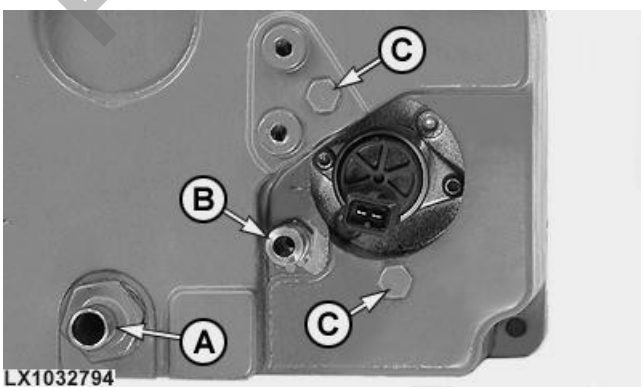
Installing a sealing ring

[5] - Locate and install sealing ring (B).

[6] - Install input shaft (D) and clutch assembly (E).



Input shaft, clutch assembly and oil pump



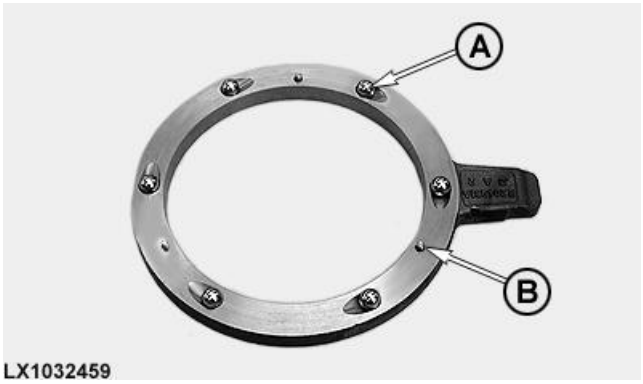
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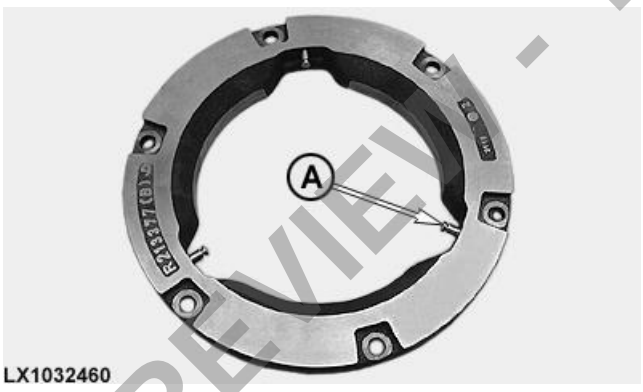
Handbrake, housing cover with pressure plate

[2] - Remove balls (A) and pins (B) from the pressure plate.



Handbrake pressure plate

[3] - Pull pins (A) out of the housing cover.



Handbrake housing cover

[4] - Replace any parts that are defective.

For the next step, see the following reference:

- Reference “Assemble Handbrake” in this Group.

Assemble Handbrake

For preliminary work, see the following reference:

- Reference “Disassemble Handbrake” in this Group.

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→NOTE:

When set correctly, the SCV can be actuated smoothly and be locked in its neutral position using lock (A).

[3] - See also reference ”Install a Front Loader” in Section 70, Group 25.

CAUTION:

If front loader is equipped, make sure the multi-function lever operates in accordance with the front loader functions.

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Group 25 - Selective Control Valves and Couplers

Reconditioning the Selective Control Valves and Couplers — Summary of References

Reconditioning the selective control valves and couplers is dealt with at the following references.

- “Reconditioning the selective control valves and couplers — General instructions on safety and reconditioning”
- “SCV identification”
- “Install shuttle valves”
- “Remove and install selective control valves”
- “Series 105 and 205 selective control valves — Exploded view”
- “Series 105 and 205 selective control valves — Disassembly”
- “Series 105 and 205 selective control valves — Assembly”
- “Series 305 selective control valves — Exploded view”
- “Series 305 selective control valves — Disassembly”
- “Series 305 selective control valves — Assembly”
- “Selective control valves - Hydraulically actuated shut-off valves”
- “Selective control valves — Reconditioning the couplers”
- “Install a front loader”

Special Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or European Microfiche Tool Catalog (MTC).

Installation tool

KJD10277



KJD10277

KJD10277

Selective control valves, reconditioning the couplers

Other Material

Number	Name	Use
• R117738 (us)	Special grease	SCVs, assembling the detent parts
• L41476 (us) • 270 LOCTITE ™ (loctite)	Sealant	Securing the special screw for the detent or centering spring to the valve spool (on the SCVs).

Specifications

Item	Measurement	Specification
Bowden cable on SCV:		
Sleeve to flange	Torque	50 N˙m
		37 lb-ft
Locknut to sleeve	Torque	50 N˙m
		37 lb-ft

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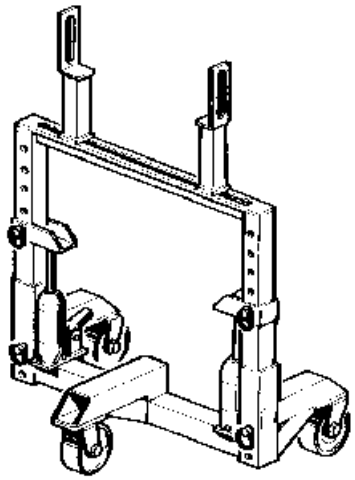
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JT05724 splitting stand

Bolt the JT05724 splitting stand (A) JT05724 to the main frame.

Splitting stand

JT05724



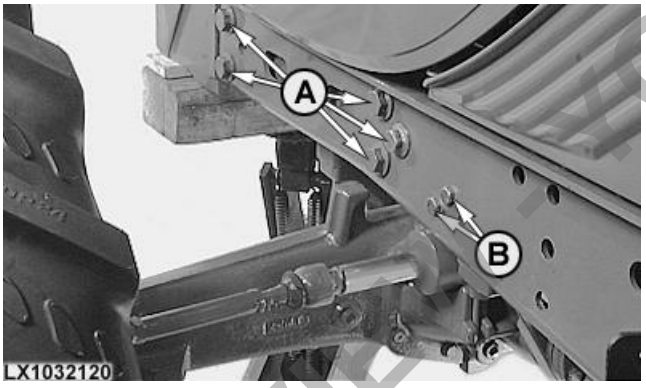
JT05724

JT05724

Raising and supporting tractor components Two commercial, 5-metric-ton vehicle jacks are also required.

Take out cap screws (B), (C) and (D).

[8] -



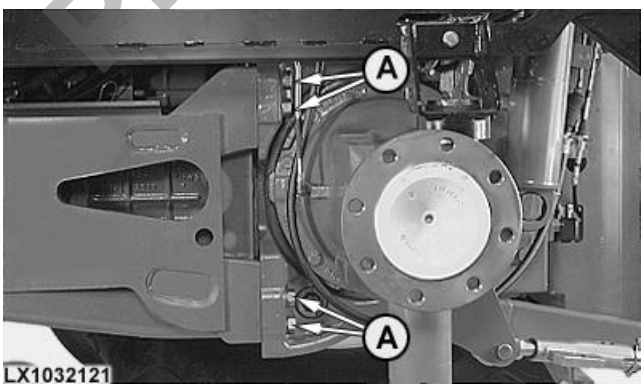
LEGEND:

A	Screws in support
B	Screws at front engine mounting

Screws at the front of the frame

Remove cap screws (A) and (B).

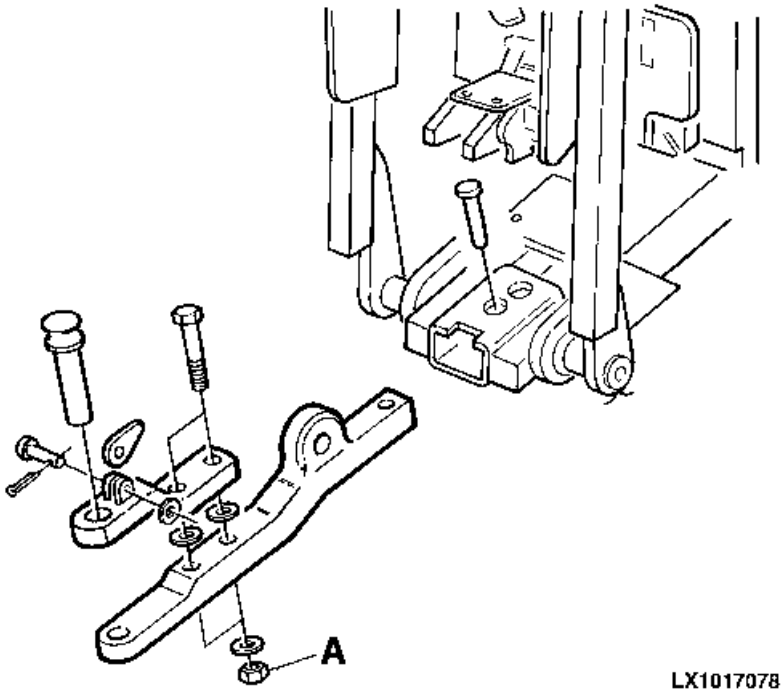
[9] -



Screws at the rear of the frame

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LX1017078

Swinging drawbar (with pick-up hitch)

Tighten hex. nut (A).

Item	Measurement	Specification
Swinging drawbar with hydraulic pick-up hitch, nut	Torque	375 N˙m
		275 lb-ft

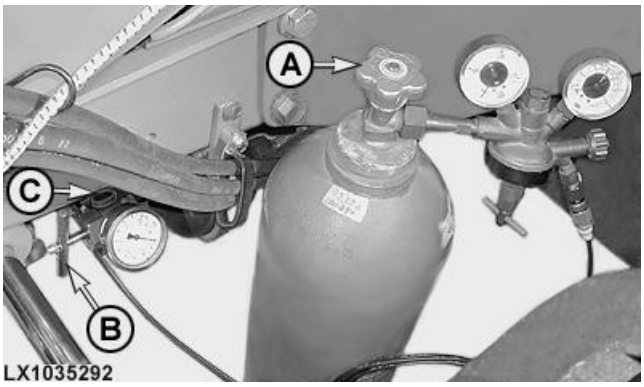
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device".

Remove fill and check device:

[1] -



Bottle valve, knurled screw and lever

Close bottle valve (A).

[2] - Make sure that the fill screw is completely closed (turn clockwise). Open knurled screw (C) to allow nitrogen to escape from the fill and check device.

[3] - Remove hose and fill and check device.

[4] - Tighten fill screw to specified torque.

Item	Measurement	Specification
Accumulator, fill screw	Torque	20^{+5} N˙m
		15^{+4} lb-ft

[5] - Screw the seal nut onto the accumulator.

[6] - Connect the negative terminal to the battery and perform a functional test. Make sure that there are no leaks in the hydraulic system and that the front hitch operates properly.

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LX002150

Safety equipment

This equipment consists of safety glasses, safety gloves and, where appropriate, a breathing mask (if there is the risk of poisonous gases being released).

CAUTION:

A breathing mask provides NO protection against lack of oxygen.

Prepare a 1% boric acid solution for rinsing the eyes and a solution consisting of 1 part essence of vinegar and 5 parts water for washing affected parts of the body. Also provide a first aid kit.

Storage of Refrigerant Containers

CAUTION:

Refrigerant containers are under pressure, and this pressure increases rapidly when the temperature of the container rises. The thin-walled refill containers are particularly at risk in this respect. Refrigerant containers must never be exposed to temperatures over 52°C (120°F).

Never store pressurized containers in the vicinity of heat sources or in places exposed to direct sunlight. Never open pressurized containers by force or damage them in any way.

R134A Refrigerant

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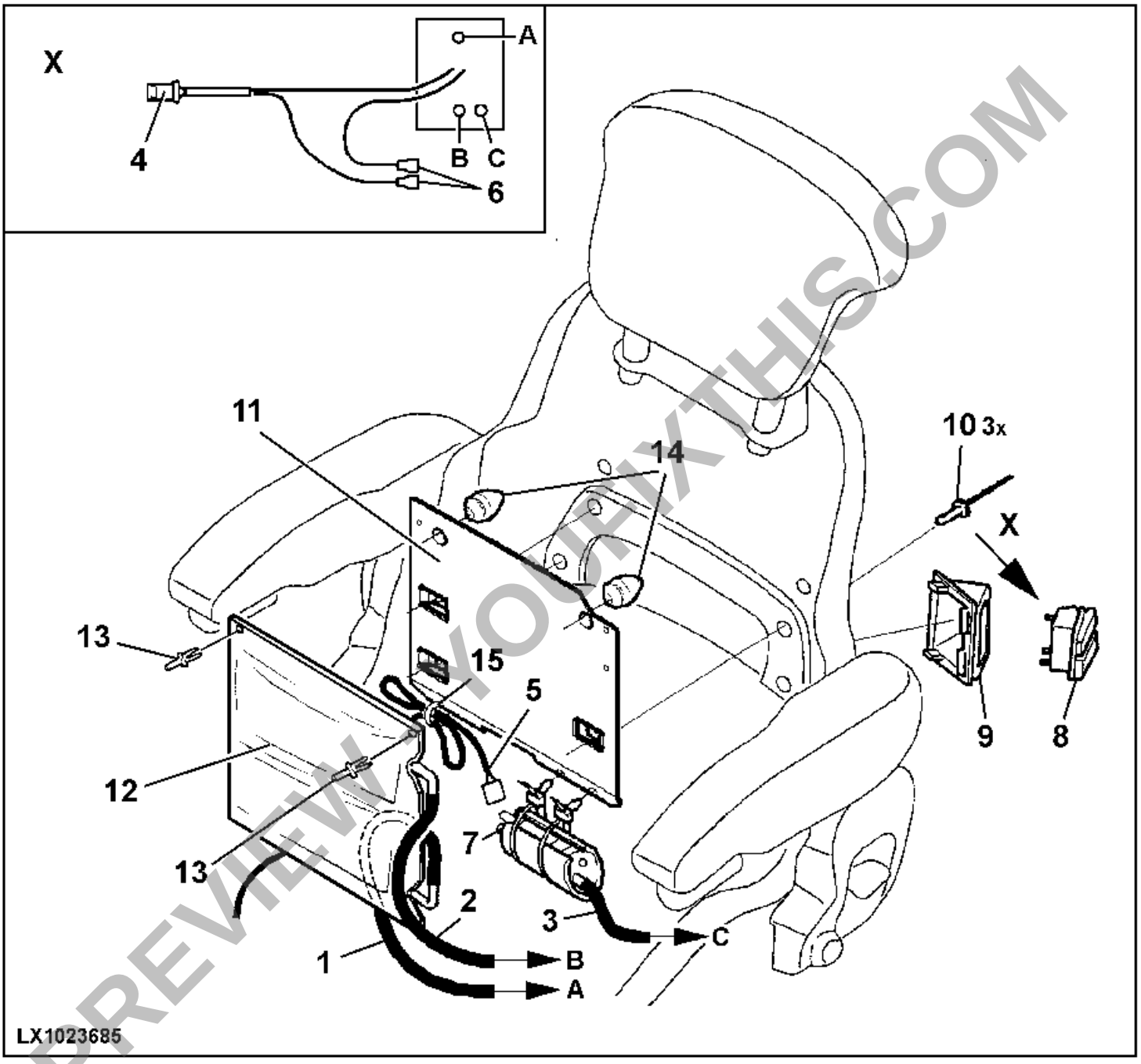
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Pull out hex. pin (10).

Remove detent plates (12).

Install and reassemble in reverse order.

Removing and installing pneumatic lumbar support



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Removing and installing pneumatic lumbar support

Remove back cushion and storage pocket

[If equipped]

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Pull air hoses (1), (2) and (3) off valve ports (A), (B) and (C).

Pull connector (4) off connecting cable (5).

Pull terminals (6) off the compressor.

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