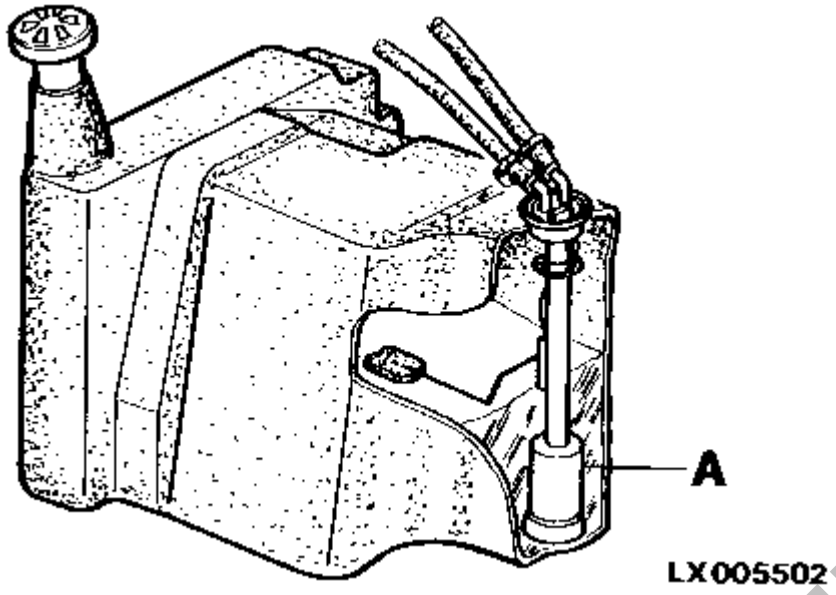
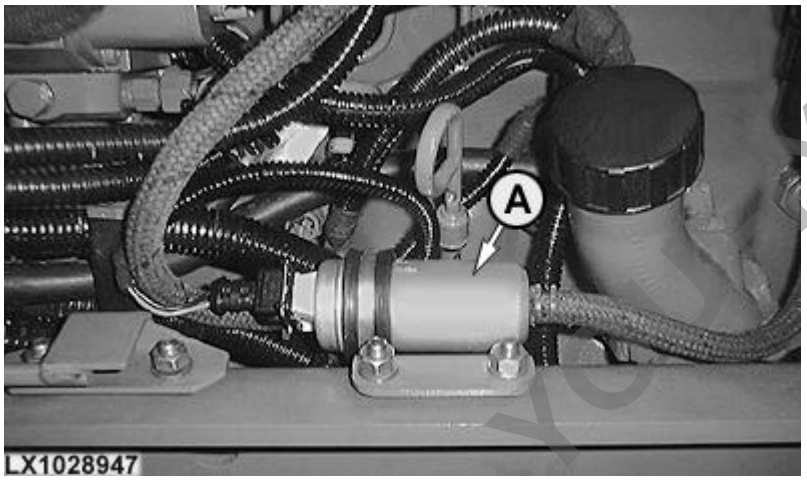
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TIER II engines

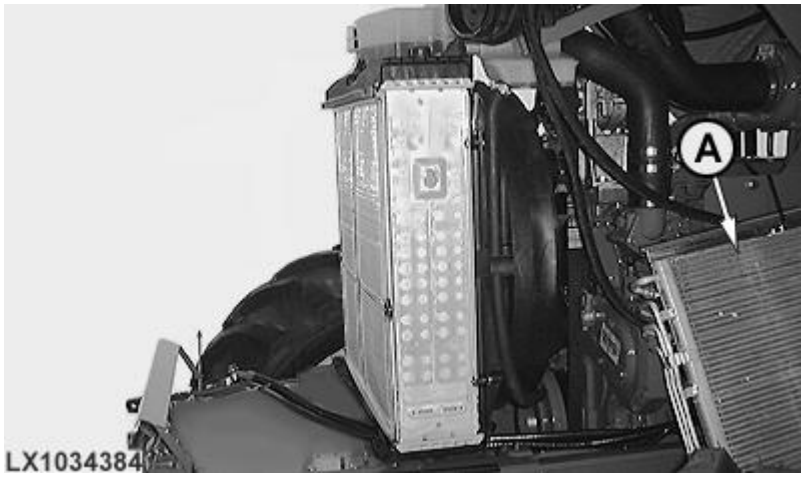
LEGEND:

A	Fuel transfer pump

In the event of a malfunction, see reference " Checking the Fuel Transfer Pump ", Section 230, Group 15.

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Take off the two frame parts and use a cable binder to secure condenser (A) to the side of the engine.

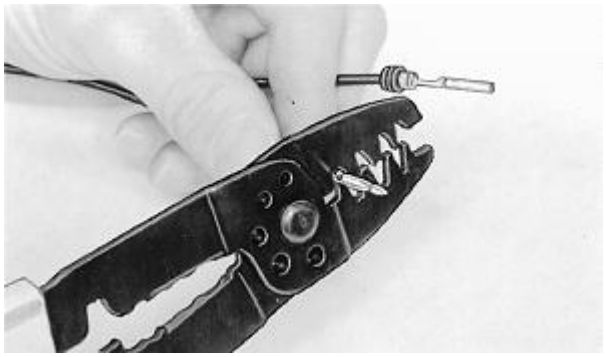
Removing and Installing the Ring-Shaped Cooler

See reference ”Removing and Installing the Ring-Shaped Cooler” in Section 56, Group 05.

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[4] - Installing a terminal



Place male or female terminal in matching recess of the special pliers JDG144.

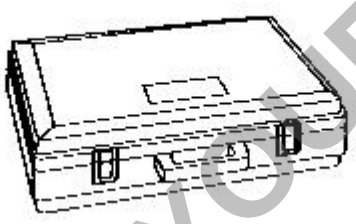
Place the stripped portion of the wire and wire seal in the recess in the male or female terminal, and squeeze the pliers until they engage.

→NOTE:

Special pliers JDG144 are included in electrical repair tool kit JDG155

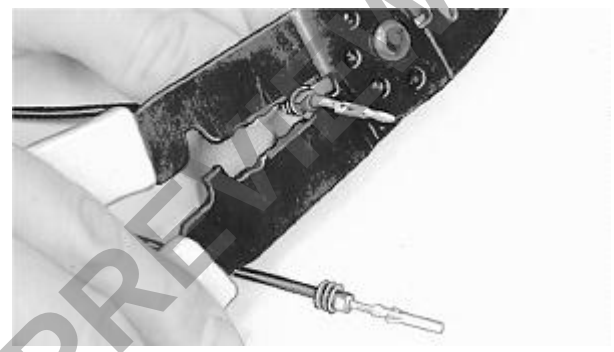
Electrical repair tool kit

JDG155



Repairing wiring harnesses

.



Use the JDG144 special pliers to crimp the wire seal on as shown.

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X402	Plug for front corner worklight switch
X406	Plug for light switch
X433	Switch plug for rear worklights on fenders
X434	Plug not used
X504	Connecting point - cowl harness (W08)
X505	Connecting point - cowl harness (W08)
X516	Plug for hazard warning switch
X579/1	Plug for indicator light (electric starting aid)
X579/2	Plug for indicator light (electric starting aid)

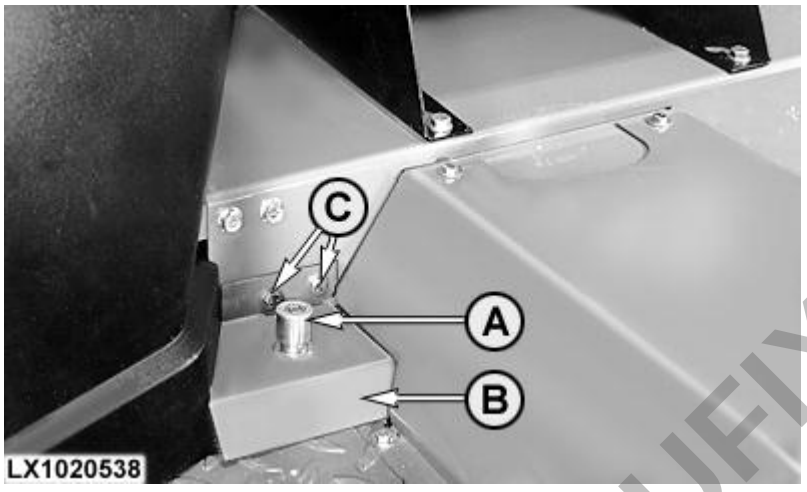
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IMPORTANT:

If you replace the differential lock switch, you should check the basic control unit (BCU) for diagnostic trouble codes. See reference "245-05-002 , Accessing the Addresses and Diagnostic Trouble Codes".

Tractors with low-profile cab and open operator´s station with low-profile platform



LEGEND:

A	Differential lock switch
B	Switch console
C	Screws

Take out screws (C) and lift off switch console (B).

Disconnect the plug.

Take differential lock switch (A) off the switch console, and replace it with a new one.

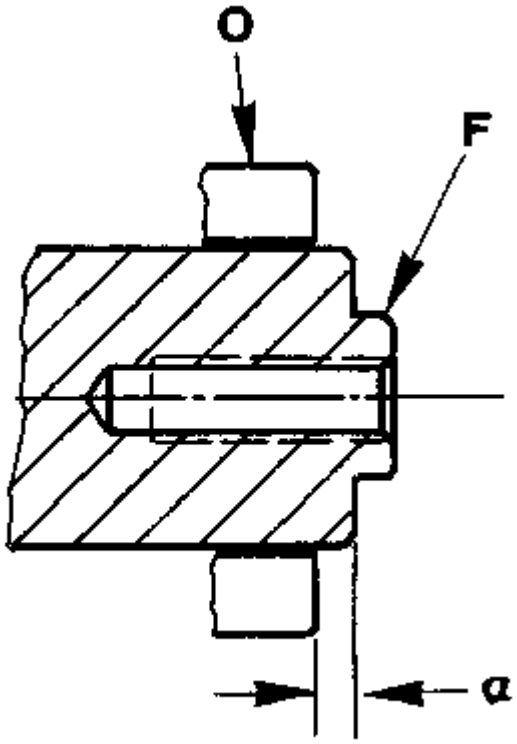
Re-assemble all parts in reverse order.

IMPORTANT:

If you replace the differential lock switch, you should check the basic control unit (BCU) for diagnostic trouble codes. See reference "245-05-002 , Accessing the Addresses and Diagnostic Trouble Codes".

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LX1016909

Item	Measurement	Specification
Shift quadrants	Pretension	0.9 - 1.5 mm 0.035 - 0.059 in.

[1] - Install parts (D) to (O).

→NOTE:

Install washers (J) with the specially coated sides closest to the quadrants.

Note specified tightening torques.

[2] - Without pretensioning the belleville springs (G), measure distance (a), which is how far bearing pin (F) sticks out.

[3] - Work out thickness of shim (d) as follows: Add between 0.9 mm (0.035 in.) and 1.5 mm (0.059 in.) to (a). The sum represents the thickness of shims to be used (P).

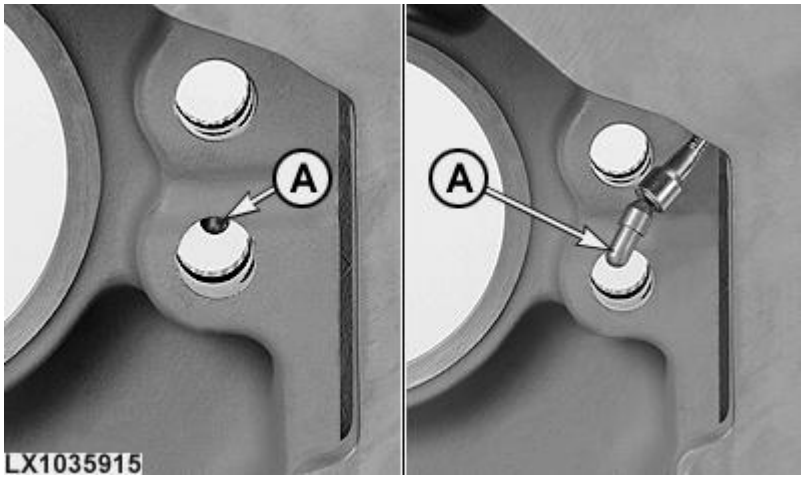
d (min.) = a + 0.9 mm (0.035 in.)

d (max.) = a + 1.5 mm (0.059 in.)

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[3] -

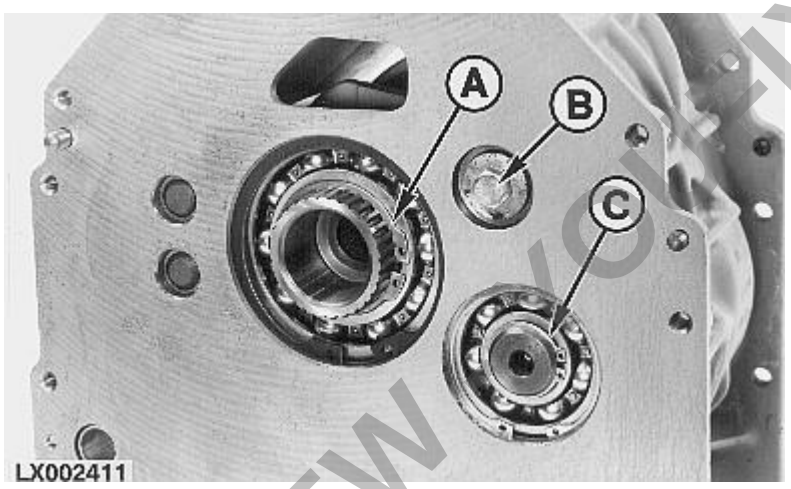


LEGEND:

A	Locking pin

Take locking pin (A) out of the transmission housing.

[4] -



LEGEND:

A	Snap ring
B	Cap screw
C	Snap ring

Remove snap ring (A) from the drive shaft.

[5] - Remove snap ring (C) from the countershaft.

[6] - Remove cap screw (B) from the intermediate shaft.

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Adjusting the range shift mechanism

[1] - Move range shift lever (B) to and fro in neutral zone (see arrow). The shift lever must neither touch nor catch against the shift gate.

[2] - Disconnect bowden cables (C) and (D), if necessary. To adjust, turn appropriate yoke.

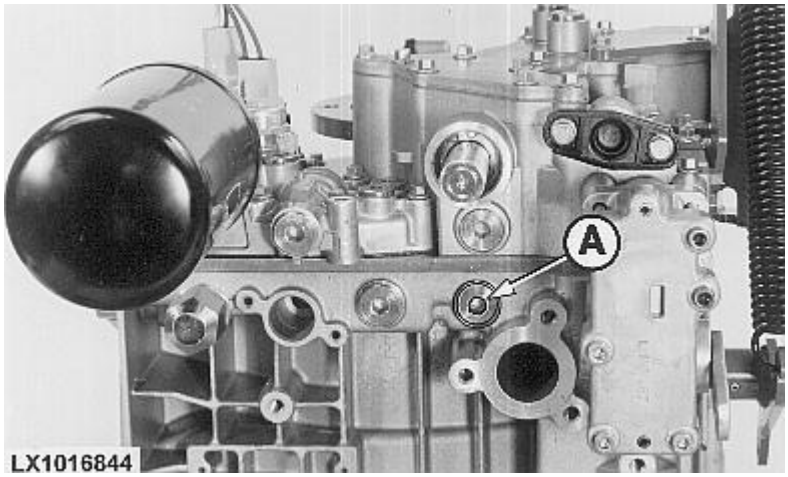
[3] - Reconnect the cables and check for correct adjustment.

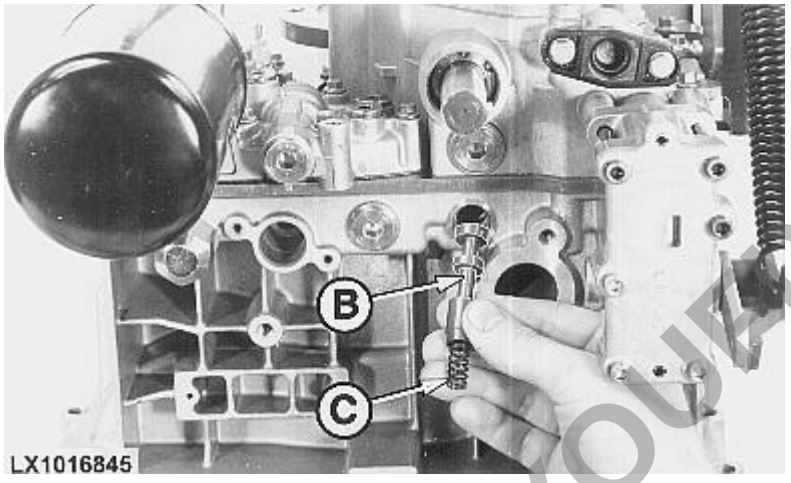
Adjusting the park lock

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[1] -





LEGEND:

A	Plug
B	Valve spool
C	Spring

Remove plug (A).

[2] - Check valve spool (B) for signs of wear.

[3] - Check spring (C).

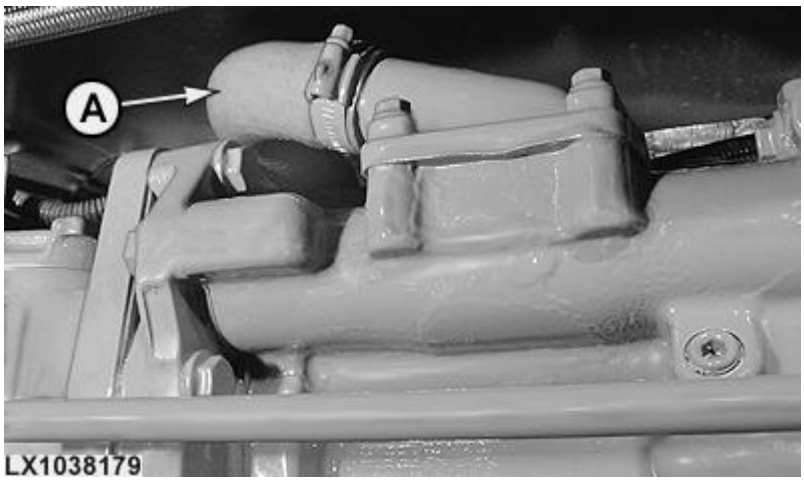
Item	Measurement	Specification
Engagement override valve spring	Free length	39 mm
		1.53 in.
	Test length	24.5 mm at 48 N
		0.96 in. at 11 lb

Reconditioning the Filter Relief Valve

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[7] -



LEGEND:

A	Return hose

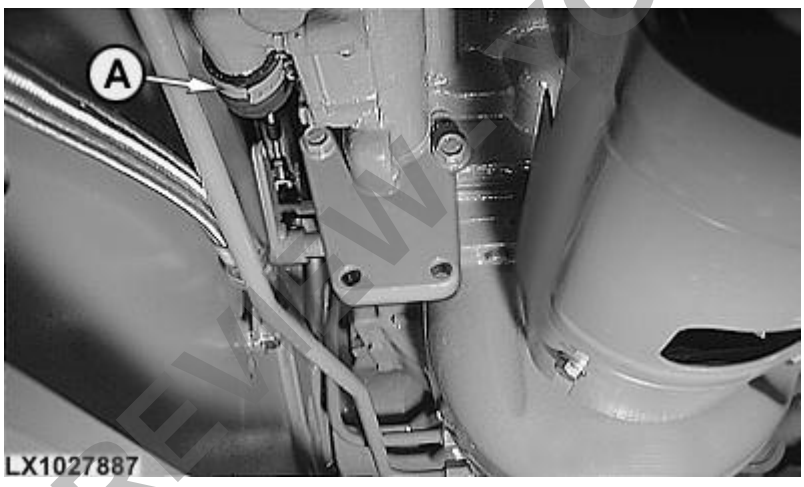
Disconnect return hose (A) from the PowrQuad module.

→NOTE:

Trap oil as it emerges. Seal the open ends so that no dust can penetrate.

[8] - If the PowrQuad module has mechanical shifting and mechanically actuated reverser control, disengage the bowden cables.

[9] -



Disconnect return hose (A) from the PowrQuad module.

→NOTE:

Trap oil as it emerges. Seal the open ends so that no dust can penetrate.

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[9] - Engage bowden cable (B) at valve spool (A).

IMPORTANT:

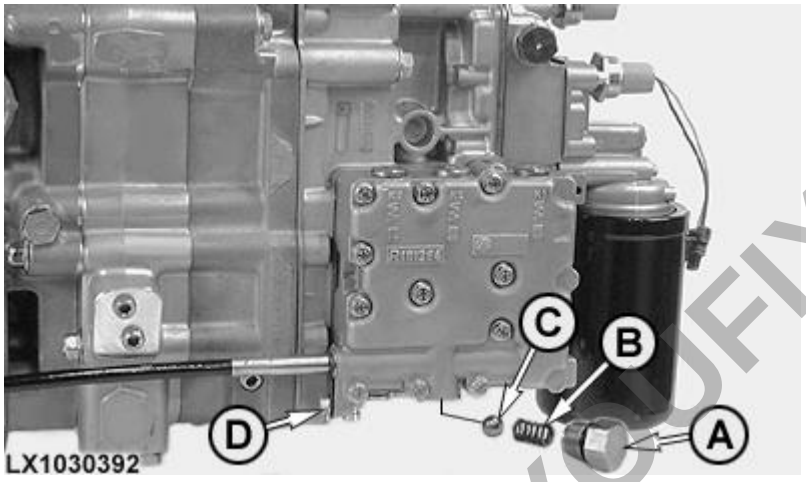
Before installing the bowden cable, apply plenty of grease to the O-rings; this will help prevent unnecessary damage.

→NOTE:

During installation of parts, make sure that bowden cables are not bent or tensioned.

[10] - Carefully press valve spool (A) and bowden cable (B) into the shift housing. Take care not to damage O-rings (C).

[11] -



Install ball (C) spring (B) and stopper (A).

[12] - Tighten stopper (A).

Item	Measurement	Specification
Stopper, detent	Torque	18 N·m
		13 lb-ft

[13] - Install and tighten attaching screw (D).

Item	Measurement	Specification
Attaching screw, bowden cable	Torque	11 N·m
		8 lb-ft

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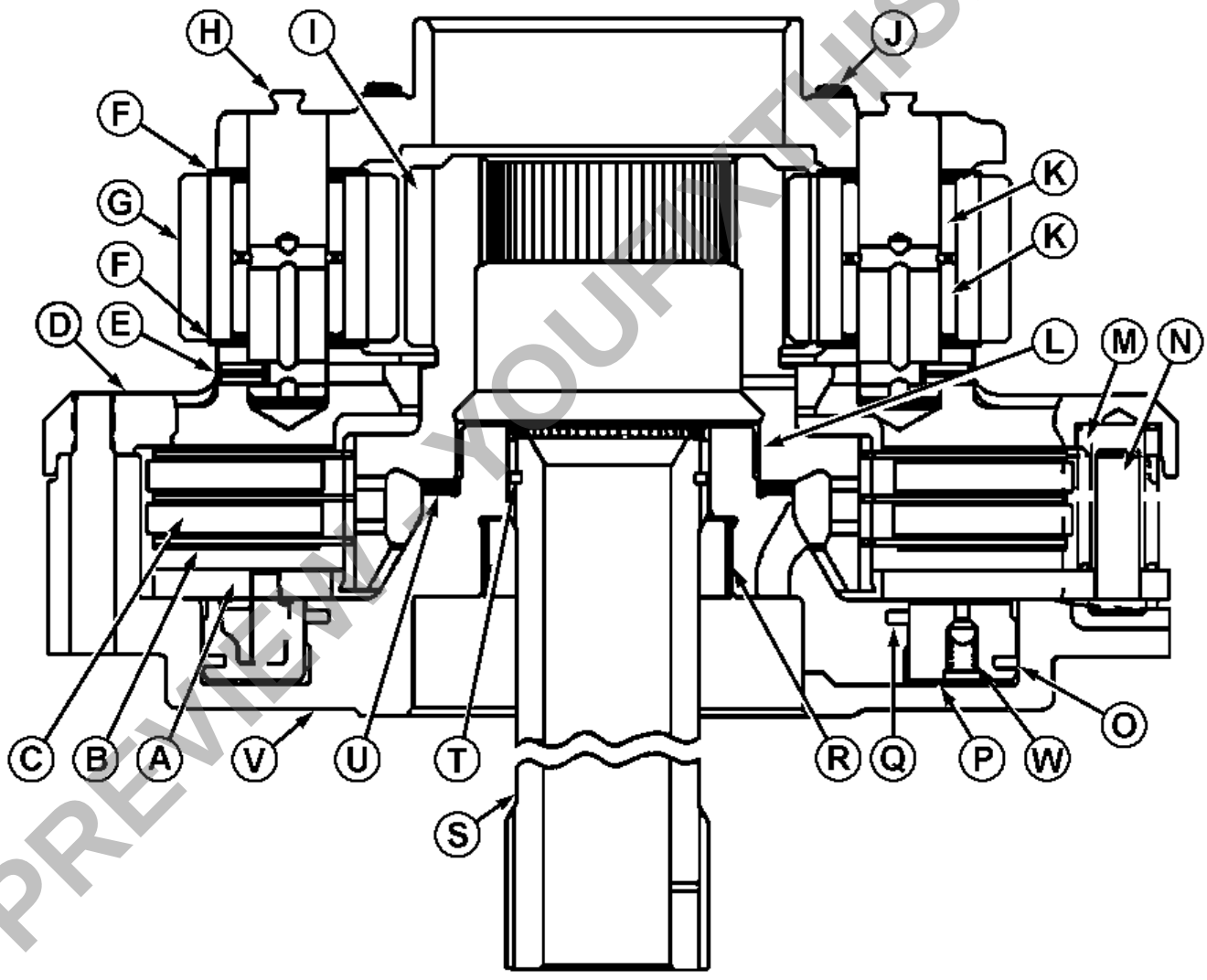
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Recondition Forward Clutch with Planetary Drive (Forward/Reverse)

Preliminary work:

See reference "Removing the Forward Clutch with Planetary Drive (Forward/Reverse)" in this Group.

Cross-sectional and exploded views of the forward clutch and planetary drive



LX1035683

LEGEND:

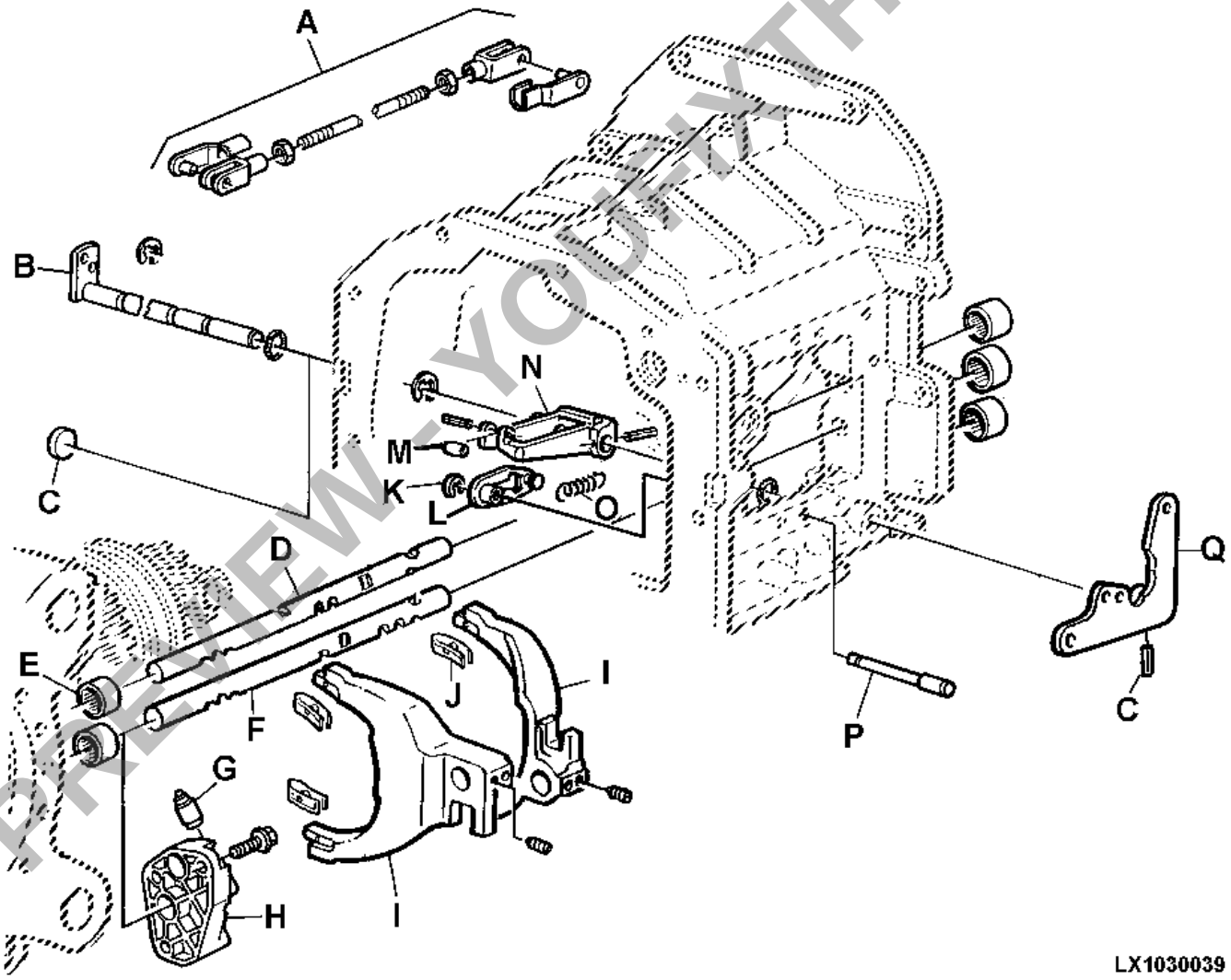
A	Piston plate
B	Disk
C	Clutch plate
D	Planetary carrier
E	Retaining pin
F	Thrust washer
G	Planet gear

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J	Snap ring
K	Shaft
L	Hex. socket screw
M	Pin
N	Locking pawl
O	Roller
P	Shifter cam
Q	Axial bearing assy.
R	Shim (thickness as required)
S	Bushing
T	Seal ring
U	Spring
V	Lever

Exploded view of shift mechanism

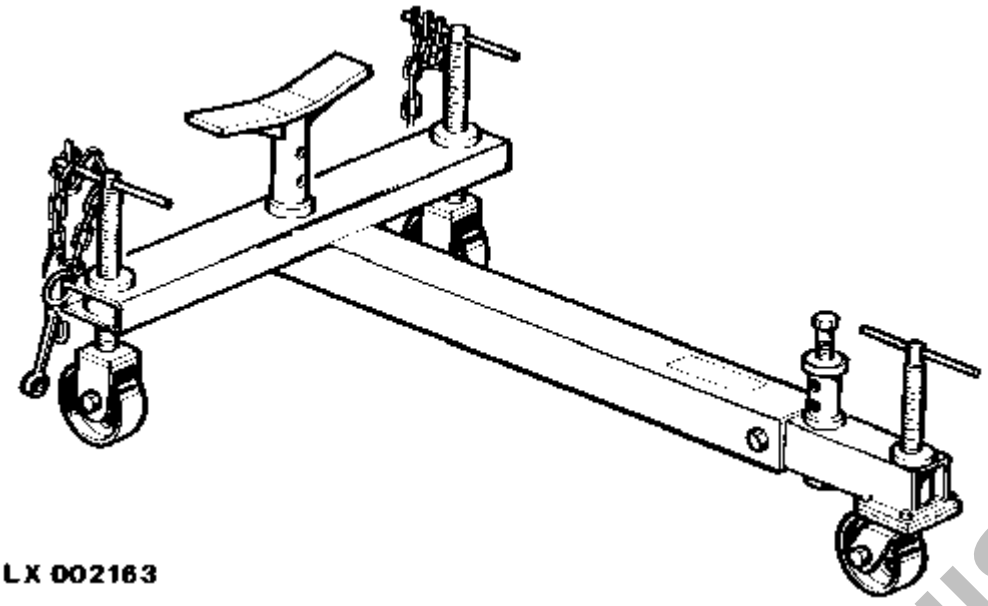


LEGEND:

A	Forward/reverse linkage assembly
B	Fwd/rev. shifter shaft
C	Spring pin
D	Shifter shaft

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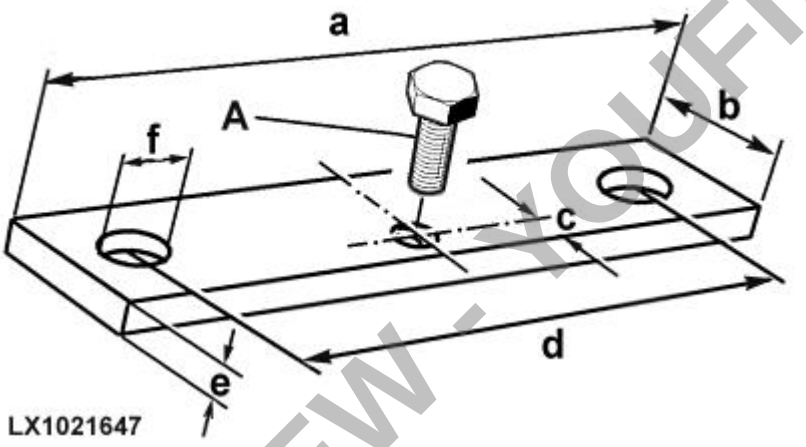


LX 002163

Removing and installing final drives, front axle or FWD axle

Adapter

dealer-fabricated



LX1021647

LEGEND:

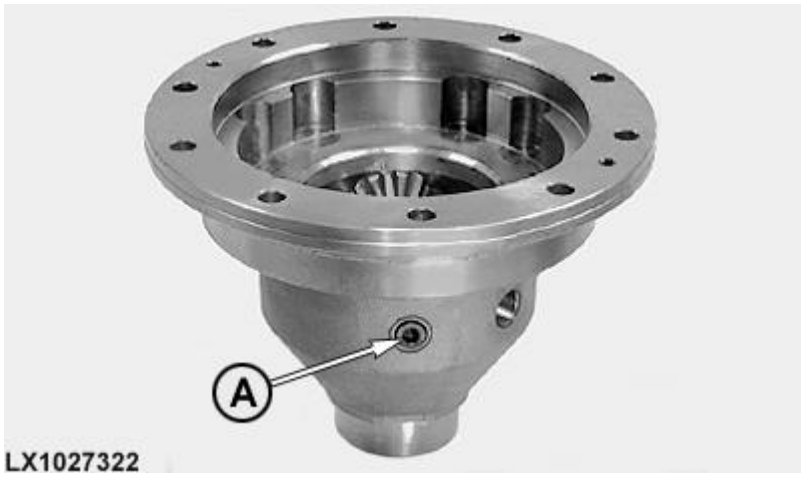
a	250 mm (10 in.)
b	50 mm (2 in.)
c	15 mm (0.6 in.)
d	205 mm (8.1 in.)
e	16 mm (0.6 in.)
f	18 mm (45/64 in.) hole
A	M12x30mm screw

Used in conjunction with splitting stand D05007ST during the removal of tractor components. Also required: two M16x350 mm threaded rods. When used to remove the final drives, screw (A) is used to support the edge of the flat piece of metal.

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[7] -

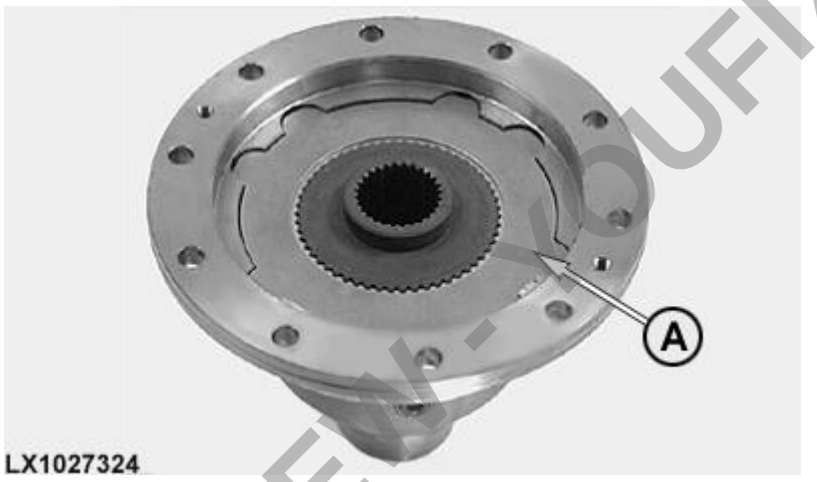


LX1027322

Coat hex. socket screw (A) with LOCTITE ™ 243 (L41475), and tighten it.

Item	Measurement	Specification
Shafts of pinions in housing, hex. socket screw	Torque	70 N·m
		52 lb-ft

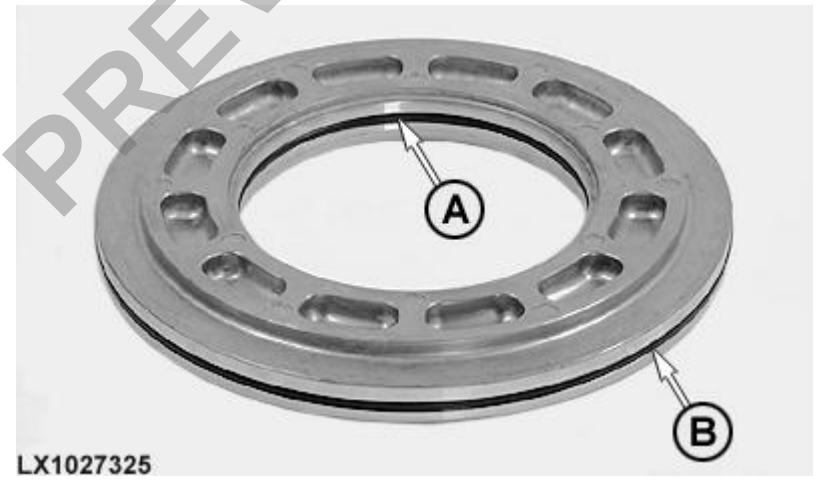
[8] -



LX1027324

Install disk pack (A). The first disk you put in should have teeth on the outside.

[9] -



LX1027325

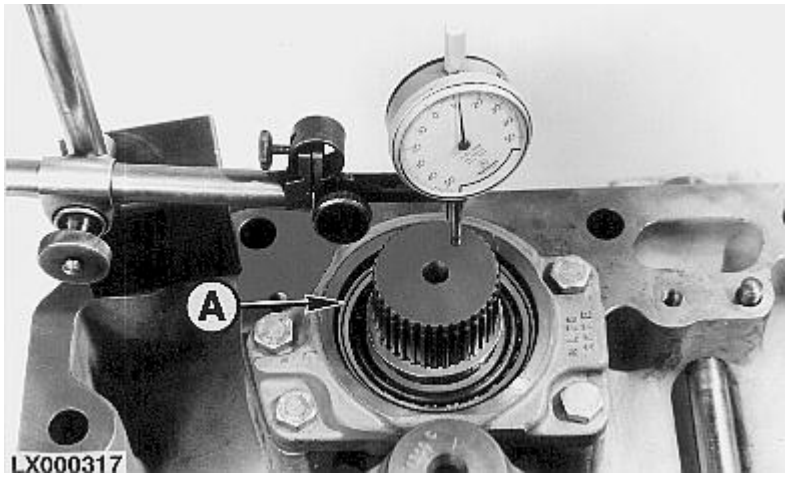
Install O-rings (A) and (B) on the piston, and apply oil to them.

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Adjusting the Taper Roller Bearing of the Countershaft

540/1000 rpm



After assembling, select a snap ring (A) with a thickness to provide proper bearing adjustment (preload or play).

Item	Measurement	Specification
Countershaft	Preload	0.07 mm
		0.0028 in.
	Play	0.08 mm
		0.0031 in.

Bearing preload is preferable.

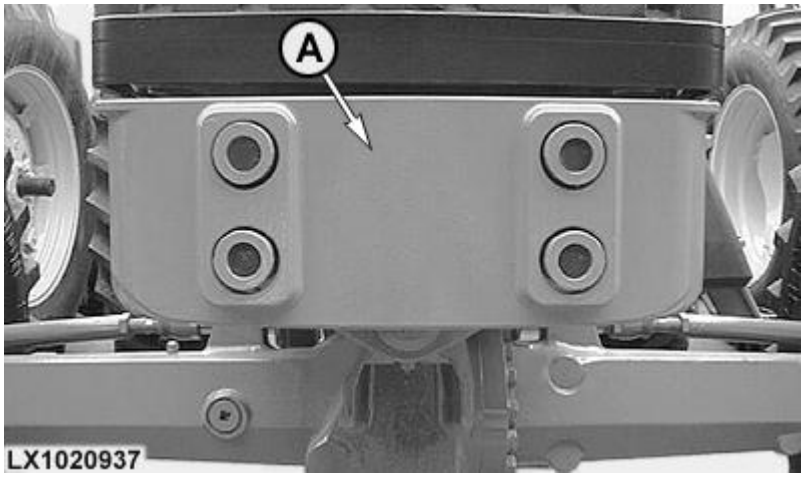
→NOTE:

If the snap ring cannot be installed, loosen bearing housing cap screws, insert the snap ring and retighten the cap screws.

Item	Measurement	Specification
Countershaft bearing housing to PTO housing, cap screw	Torque	40 N·m
		30 lb-ft

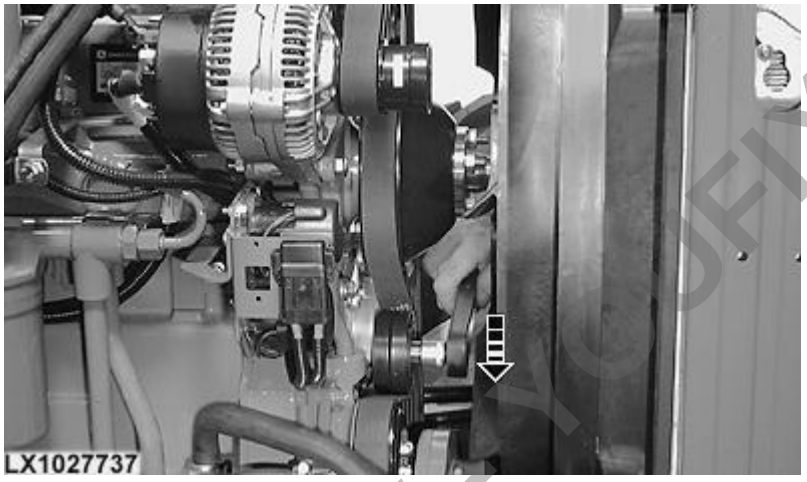
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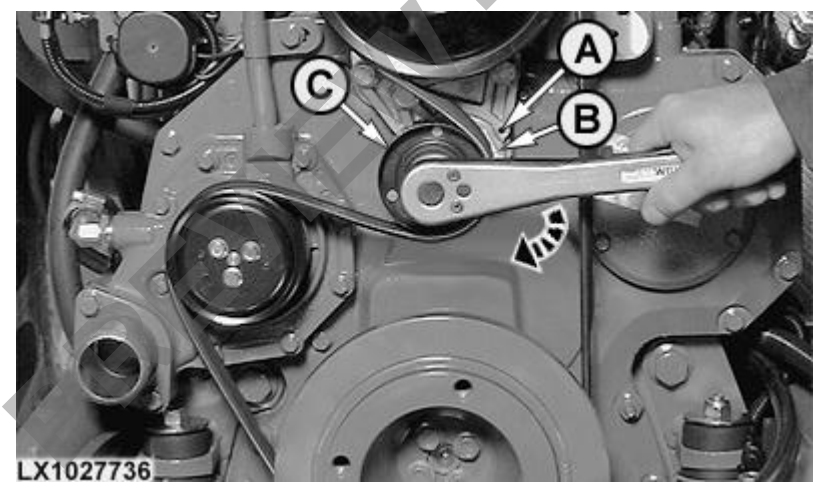
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Take off front plate (A) or basic weight.

Relieve tension on the drive belt





LEGEND:

A	Bore (cam)
B	Hole (battery plate)
C	Tensioner roll

Remove cover on tensioner roll (C). Turn tensioner roll cap screw using a 15 mm (19/32 in.) wrench (see arrow). The drive belt tensioner automatically goes back to tensioning position.

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[3] -

IMPORTANT:

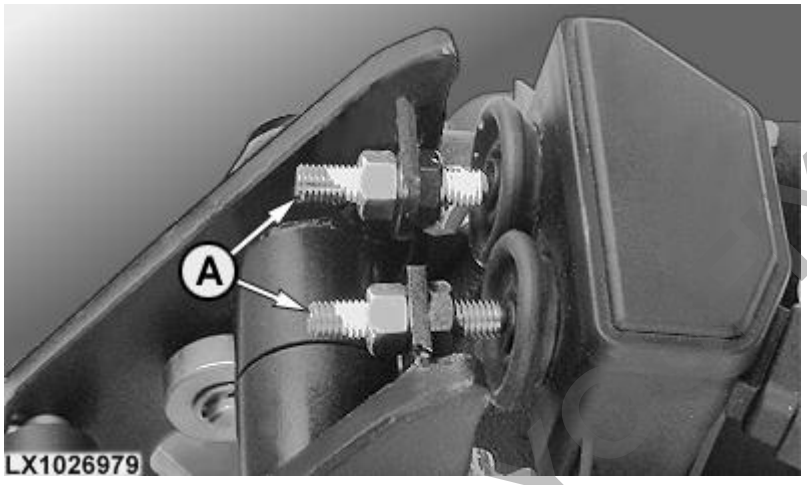
Never adjust the pedals singly. The only way to adjust the pedals and ensure that the brakes operate properly is to lock them together.

Adjust pedal play at screws (A).

→NOTE:

If the prescribed degree of play cannot be obtained at both pedals, one pedal may have a greater play.

Adjusting the brake switches

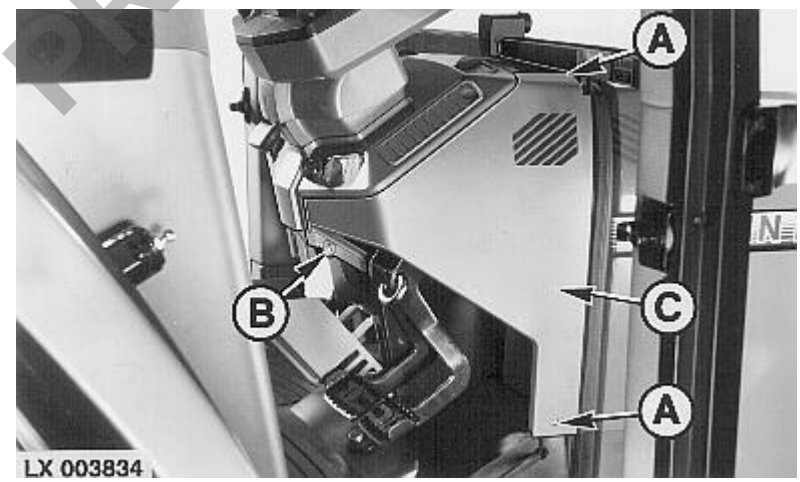


[1] - Make sure that the brake pedals are adjusted correctly.

[2] - Adjust the brake switches at adjusting screws (A) so that the switches trip when the pedal has travelled a specified distance.

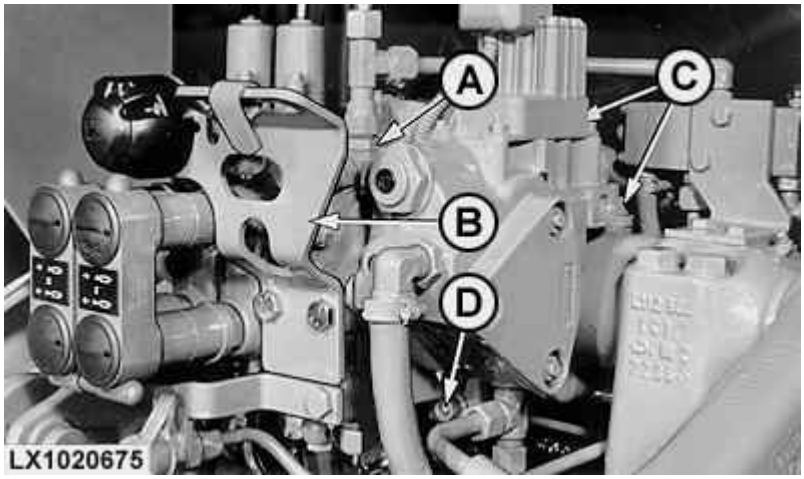
Item	Measurement	Specification
Point at which brake switch trips	Pedal travel	6 mm
		0.24 in.

Final assembly



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Removing Main Block



[1] -

CAUTION:

Comply with safety instructions. See "Hydraulic System - General Instructions on Safety and Repair" in this Group.

→NOTE:

The priority valve and spring can be removed while the main block is still in place. To do this, just remove line (A) and the fitting. Make sure that the washer between spool and spring does not fall out. See "Reconditioning the Main Block (PC Hydraulic System)" in this Group.

Remove center link bracket (B).

[2] - Remove the SCV units. See "Removing the Selective Control Valves" , Section 70, Group 25.

[3] - Remove rockshaft valve. See "Removing the Rockshaft Valve" in this Group.

[4] - Disconnect all oil lines at the main block and seal the openings with stoppers.

[5] - Remove both cap screws (C) and the hex. socket screw (D) and lift off main block assembly with support.

[6] - Repair the main block. See "Reconditioning the Main Block (PC Hydraulic System)" in this Group.

[7] - Install the main block. See "Installing the Main Block (PC Hydraulic System)" in this Group.

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K	O-ring
L	Flange
M	Hex. socket screw (2 used)
N	Valve plate (if equipped)
O	O-ring
P	Housing
Q	Spool
R	Inlet check valve and metering valve
S	Special screw

CAUTION:

Comply with the general instructions on safety and reconditioning. See "Reconditioning the Selective Control Valves and Couplers - General Instructions on Safety and Reconditioning" in this Group.

- Remove the SCVs. See "Removing the Selective Control Valves" in this Group.
- Remove the control knobs. See "Series 201/301 Selective Control Valves- Replacing the Control Knobs" in this Group.
- Inspect the check valve. See "Series 201/301 Selective Control Valves - Inspecting the Check Valves" in this Group.
- Inspect the inlet check valve and metering valve. See "Series 201/301 Selective Control Valves - Inspecting the Inlet Check Valve and Metering Valve" in this Group.

[1] - Using the illustration as a guide, disassemble the SCVs as necessary.

[2] - The thread on special screw (S) is coated with L41476 (LOCTITE ™ 270) sealant.

[3] - Clean the various components carefully and inspect them for signs of damage.

Assembling the selective control valve

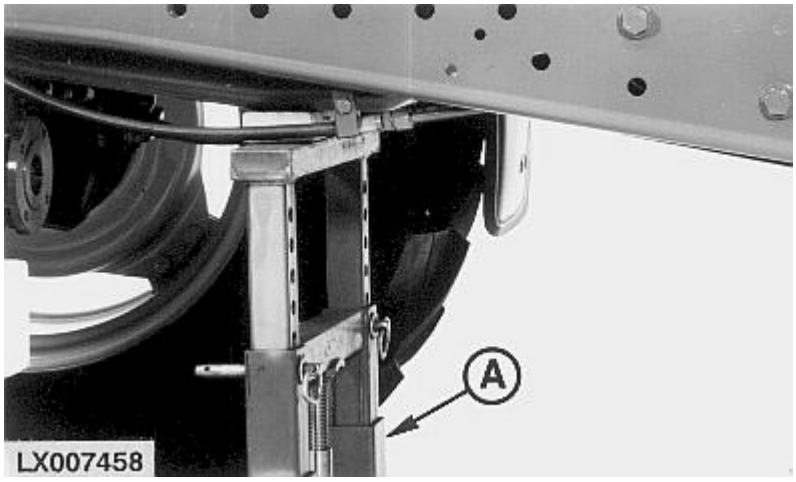
IMPORTANT:

To prevent SCV malfunction, clean all thread-locking material from threads on special screw (J) and from inside of valve spool (A).

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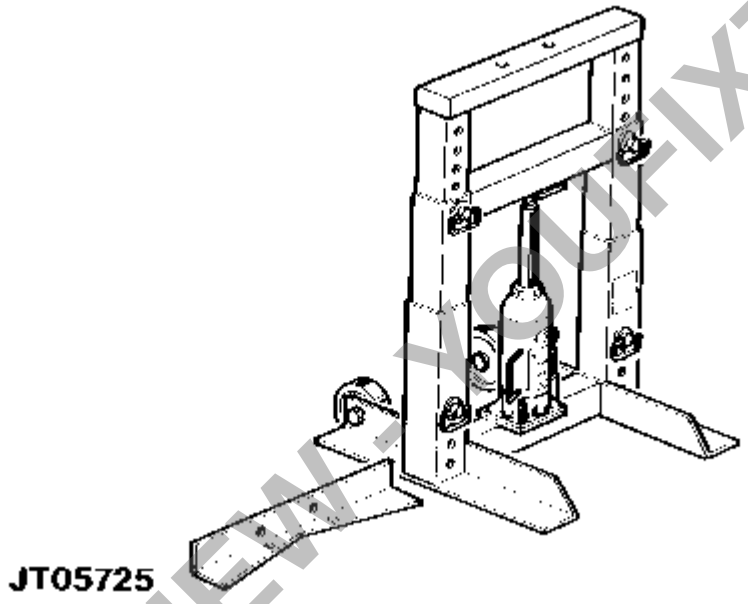
[5] -



Support engine SECURELY, using splitting stand JT05725 (A).

Splitting stand

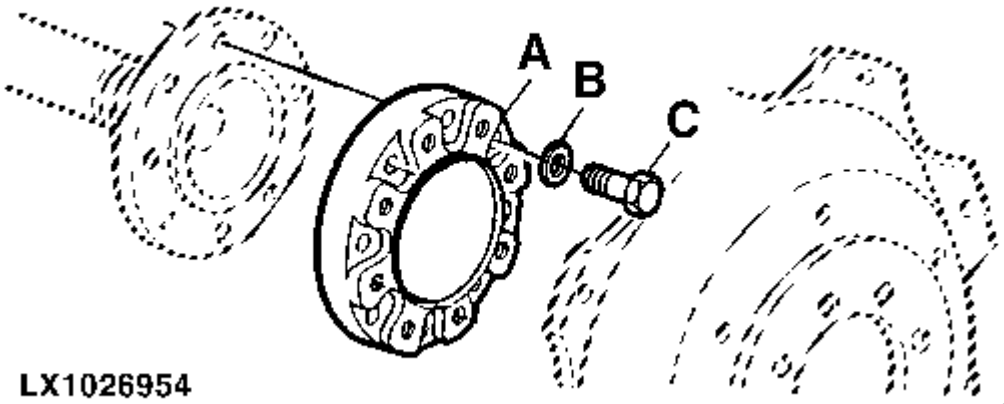
JT05725



Supporting tractor during rear wheel removal

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LEGEND:

A	Special tread-extending ring
B	Washer
C	Cap screw

Install and tighten the special tread-extending ring.

Item	Measurement	Specification
Special ring for extended tread to flanged axle, cap screw	Torque	500 N·m
		370 lb-ft

Install and tighten the rear wheel.

Item	Measurement	Specification
Wheel dish to special ring for extended tread, cap screw	Torque	500 N·m
		370 lb-ft

Installing the rear wheels (with rack-and-pinion axle)

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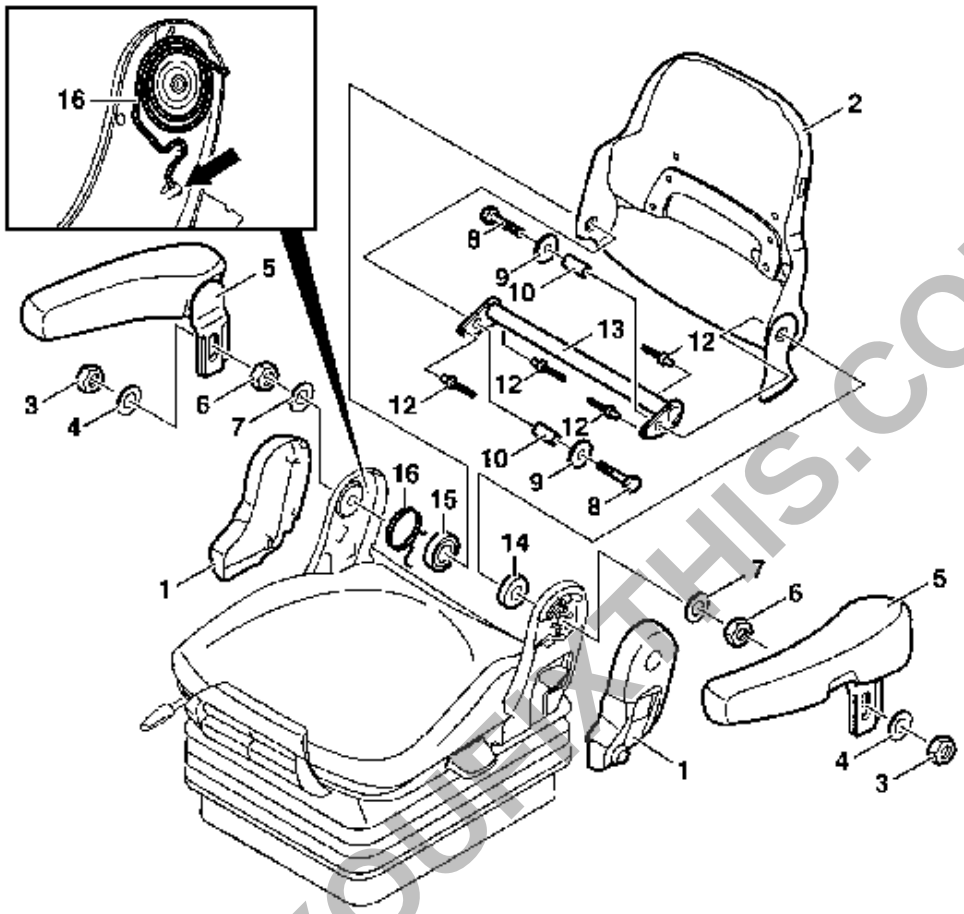
Unlock and disconnect plugs (A) and (C).

Remove screws (B).

Install by reversing removal procedure.

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LX1021402

Remove backrest cushion and covers (1).

Tilt backrest (2) to the front.

Take off the two armrests (5).

Take off hex. nuts (6) and washers (7).

Take out cap screws (8). Remove washers (9) and spacers (10).

Drill out rivets (12) and take out reinforcing tube (13).

CAUTION:

Risk of injury! The helical coiled spring is strong!

Remove backrest (2), washers (14) and (15) and helical coiled spring (16).

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