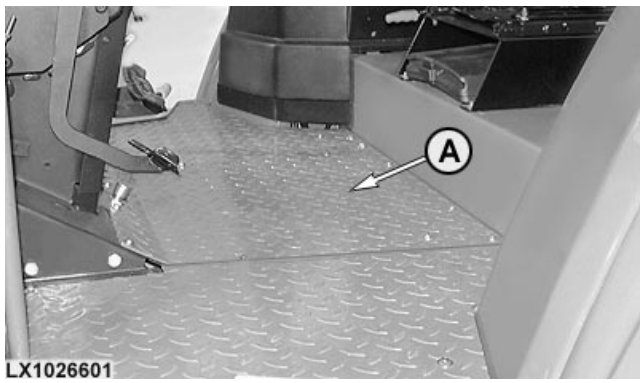
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Group 20—Trailer Mounting and Swinging Drawbar
Group 25—Triple Link Suspension (TLS) of Front-Wheel Drive Axle

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Group 05—Controls and Instruments
Group 10—Air Conditioning System
Group 11—ClimaTrak
Group 15—Heating System
Group 20—Seats
Group 25—Operator's Cab
Group 26—Low-Clearance Cab
Group 30—Cab Suspension

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Group 05—Special Tools (Dealer-Fabricated)
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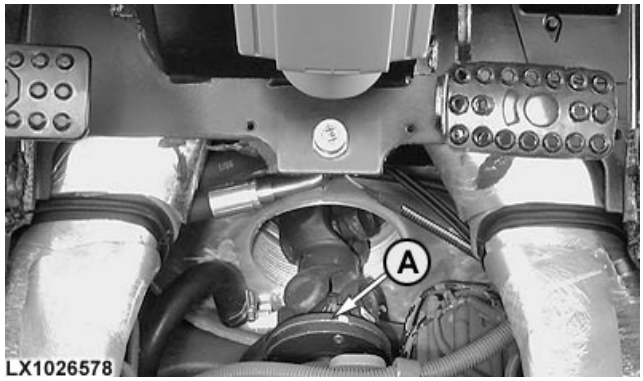
On tractors with open operator's station, take off floor-plate (A).



LX1026601 –UN–23APR01

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5. Disconnect the u.j. shaft at flange (A). See also "Removing the U.J. Shaft (Engine)", Section 56, Group 05.

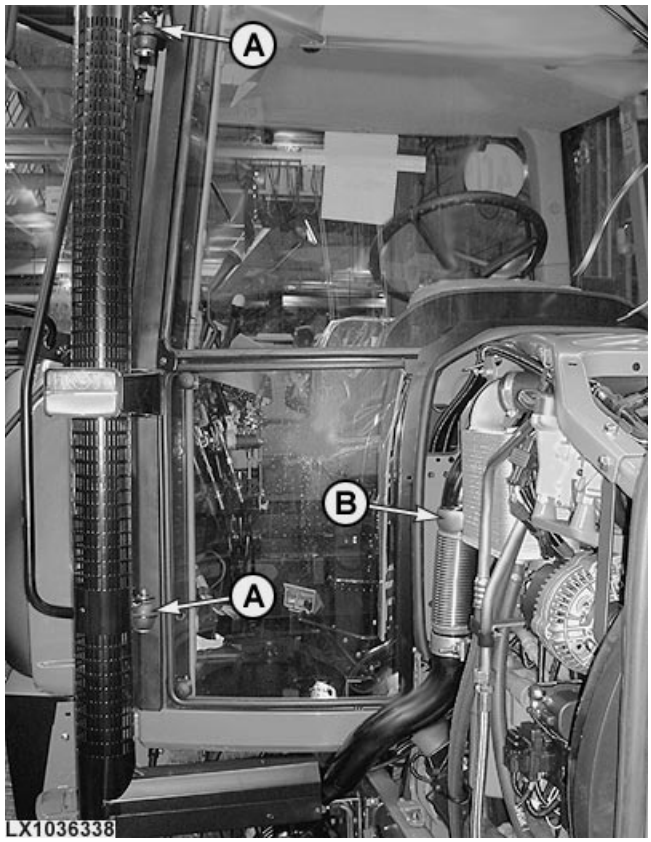


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OULXBER,0000889 –19–05JAN06–6/21

6. Tractors with muffler pipe to top right: Remove shield (A) and loosen the pipe clamp located underneath.

NOTE: To remove other variants of muffler pipe, see Section 30, Group 30. See "Exhaust to Top Right" and "Exhaust to Bottom Right".



LX1036338 –UN–09JAN06

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OULXBER,0000889 –19–05JAN06–7/21

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ELECTRICAL SYSTEM

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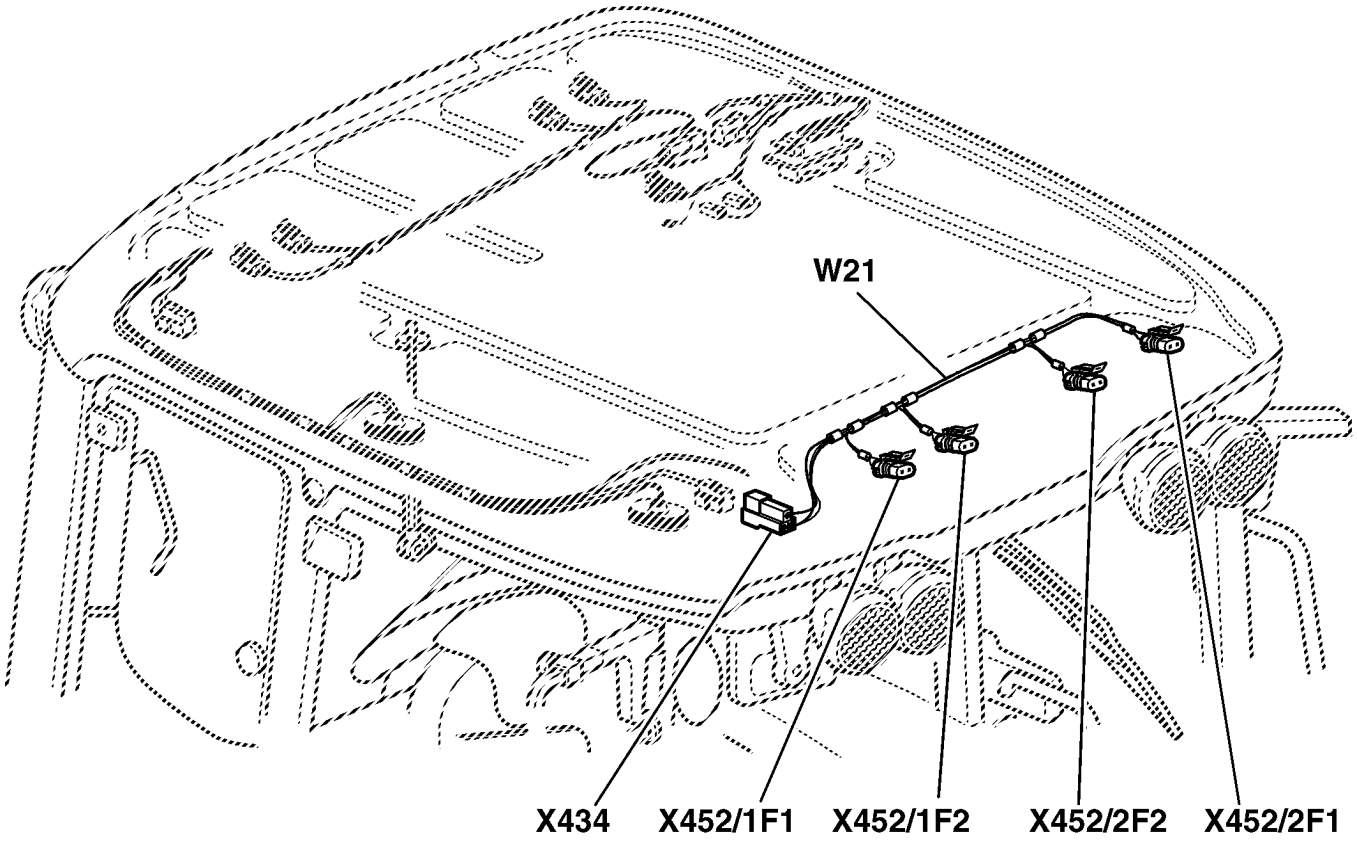
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G02—Alternator
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X02—Connecting point — front PTO harness (W07)
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X78—Plug for sending unit (engine oil pressure indicator light)
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XGND9—Ground point

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Removing and Installing Harness W21 — Worklights on Front of Cab Roof



LX1025812

LX1025812 –UN–19DEC05

X434—Connecting point — harness for worklights at front of cab roof (W19)

X452/1F1—Plug for outer right worklight on front of cab roof

X452/1F2—Plug for inner right worklight on front of cab roof

X452/2F1—Plug for outer left worklight on front of cab roof

X452/2F2—Plug for inner left worklight on front of cab roof

LX25599,00002A7 –19–01AUG01–1/1

X633—6-pin plug for steering angle sensor

X637—6-pin plug — Connection point for AutoTrac wiring harness (steering angle sensor) (W51)

LX25599,00007C5 –19–01OCT03–2/2

Replacing the Beacon Light Switch

Tractors with operator's cab

Carefully pry out the console using a screwdriver at the locations indicated (arrows).

Disconnect plug (B).

Extract the wires of the beacon light switch (A) from the plug using a JDG777 extraction tool.

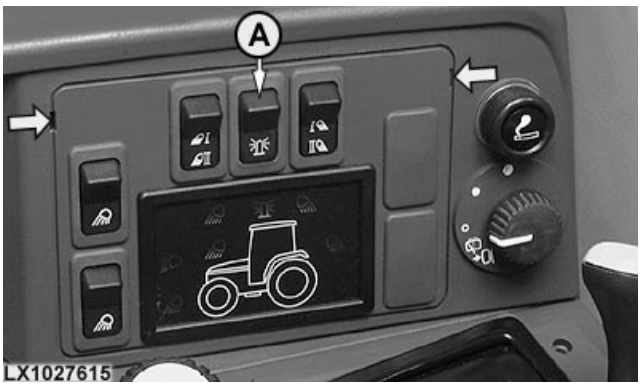
Extract terminals from plug (refer to "METRI PACK Connectors with Terminal Lock at the Rear" in Section 40, Group 05).

NOTE: For identification purposes, mark the layout of the wires before you extract them.

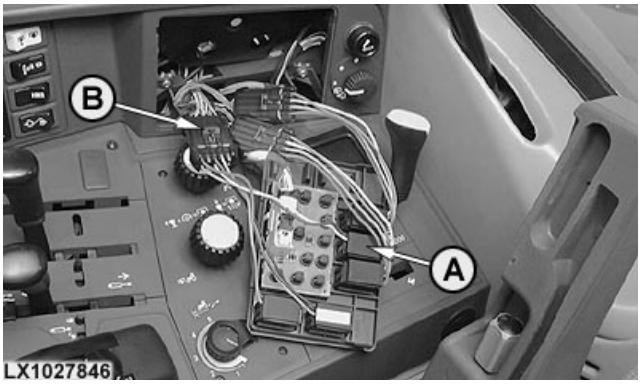
Press the beacon light switch (A) out to the front of the console and replace it with a new one.

Re-assemble all parts in reverse order.

A—Beacon light switch
B—Plug



LX1027615 –UN–31AUG01



LX1027846 –UN–10SEP01

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LX25599,00004B7 –19–01DEC02–1/1

Section 50
SYNCROPLUS TRANSMISSION

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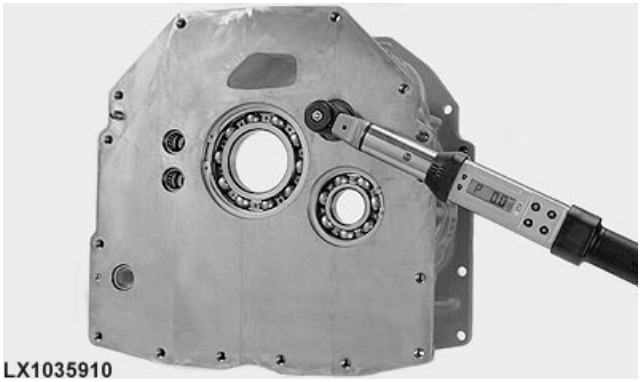
50

9. When axial play has been set correctly, take out the cap screw once again and coat it with LOCTITE® 243 (medium-strength).

10. Then tighten the cap screw to its final specified torque value.

Specification

Idler gear cap screw—Torque ..... 55 N•m
40 lb-ft

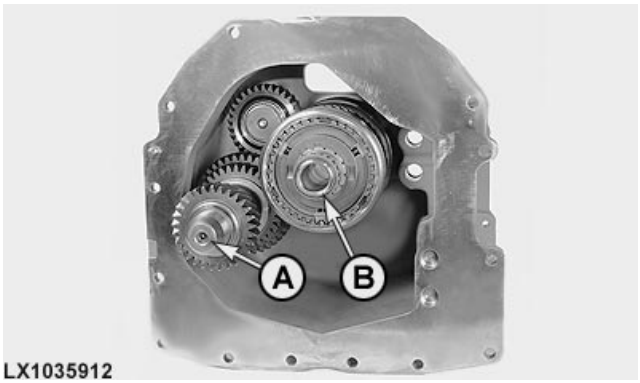


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LX25601,0000256 –19–10DEC04–32/36

11. From above, insert drive shaft (B) and countershaft (A) simultaneously into the transmission housing.

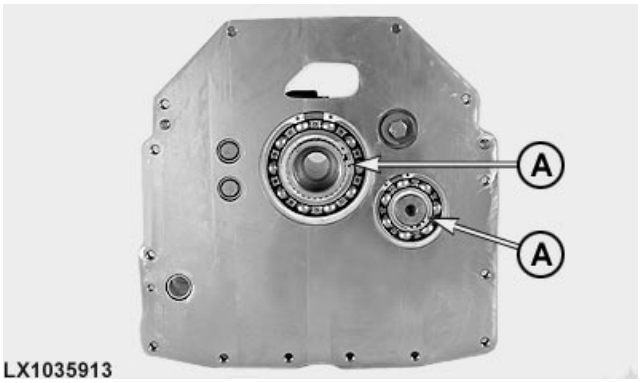
A—Countershaft
B—Drive shaft



LX25601,0000256 –19–10DEC04–33/36

12. Install snap rings (A).

A—Snap rings



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LX25601,0000256 –19–10DEC04–34/36

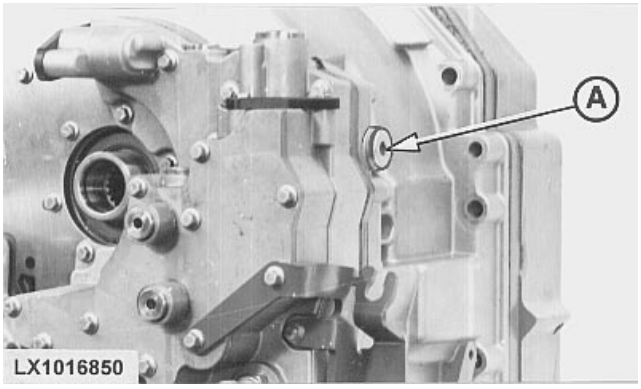
Reconditioning the Lube Relief Valve

1. Remove plug (A).
2. Check valve spool (B) for signs of wear.
3. Check spring (C).

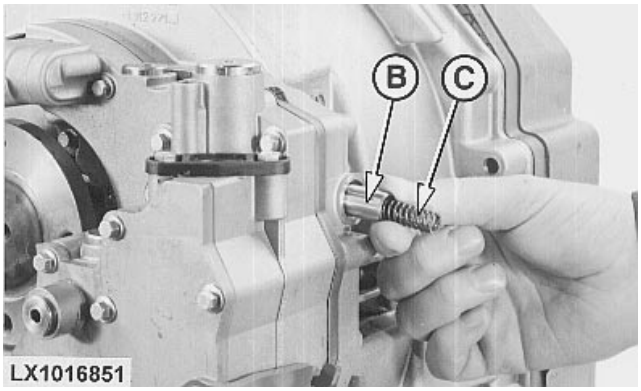
Specification

Spring on lube relief valve—Free length	57 mm 2.24 in.
Test length	46.5 mm at 45 to 55 N 1.83 in. at 10 to 12 lb

A—Plug
B—Valve spool
C—Spring



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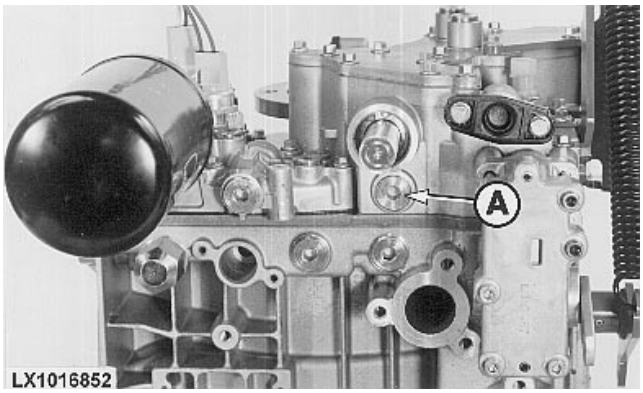


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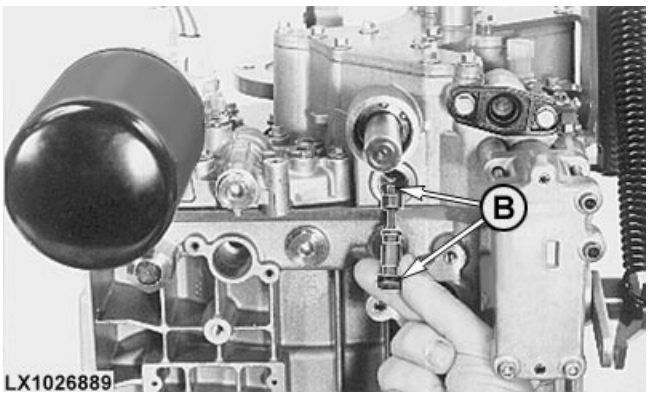
LX25601,00002A1 –19–01JUN01–1/1

Reconditioning the Sump Valve

1. Remove plug (A).
2. Remove sump valve components (B) from the housing.
3. Check components for wear. Replace, if necessary.



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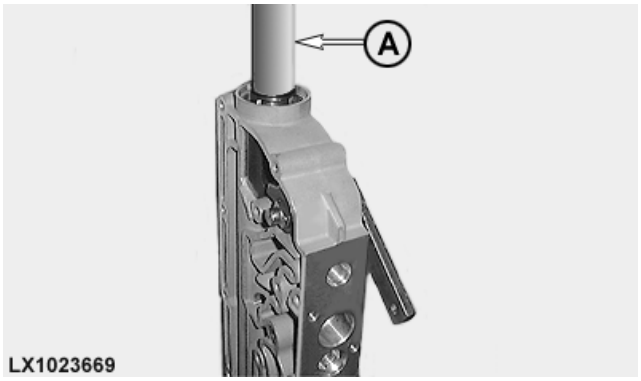
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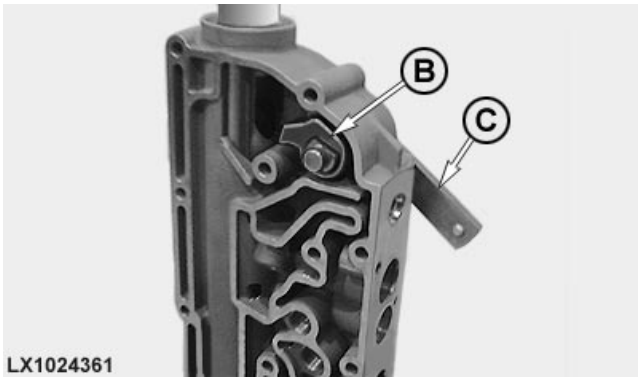
Item	Measurement	Specification
Solenoid valves to control block, attaching screws	Torque	6 N•m 4 lb-ft
Proportional valves to control block, attaching screws	Torque	6 N•m 4 lb-ft
Passage plate to control block, attaching screws	Torque	10 N•m 7 lb-ft
Clutch control block to transmission housing, hex. socket screws	Torque (temporary)	7 N•m 5 lb-ft
Clutch control block to transmission housing, hex. socket screws	Torque (final)	10 N•m 7 lb-ft
Screw plug and oil drain plug in cover of clutch control block	Torque	25 N•m 18 lb-ft
Cover of clutch control block, hex. socket screws	Torque	10 N•m 7 lb-ft
Output to input housing, cap screws	Torque	46 N•m 34 lb-ft
BG disk brake, attaching screws	Torque	80 N•m 60 ft-lb
Cable holder, attaching screws	Torque	10 N•m 7 ft-lb
Hydrostatic unit, end play	Play	0.2 — 1.0 mm 0.008 — 0.04 in.
Hydrostatic unit hydraulic hose, fitting	Torque	50 N•m 37 lb-ft
Thin hydrostatic unit hydraulic hose, collar nut	Torque	40 N•m 30 lb-ft
Thick hydrostatic unit hydraulic hose, hollow screw	Torque	50 N•m 37 lb-ft
Elbow fitting to housing, hex. nut	Torque	80 N•m 60 lb-ft

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8. Use a compression device and tube (A; dealer-fabricated) to press the cylinder downward.
9. While it is compressed, remove lever (B) and lever arm (C).



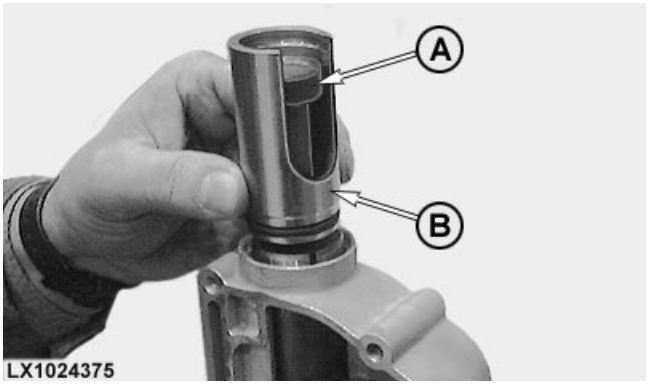
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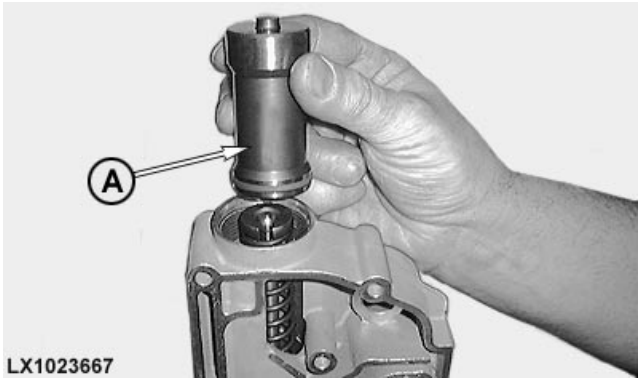
10. Remove cylinder (B) and tappet (A).
11. Take the seal rings off the cylinder.



LX1024375 –UN–28FEB00

LX24888,0000382 –19–01JUL02–10/39

12. Remove piston (A).
13. Take the seal rings off the piston.



LX1023667 –UN–28FEB00

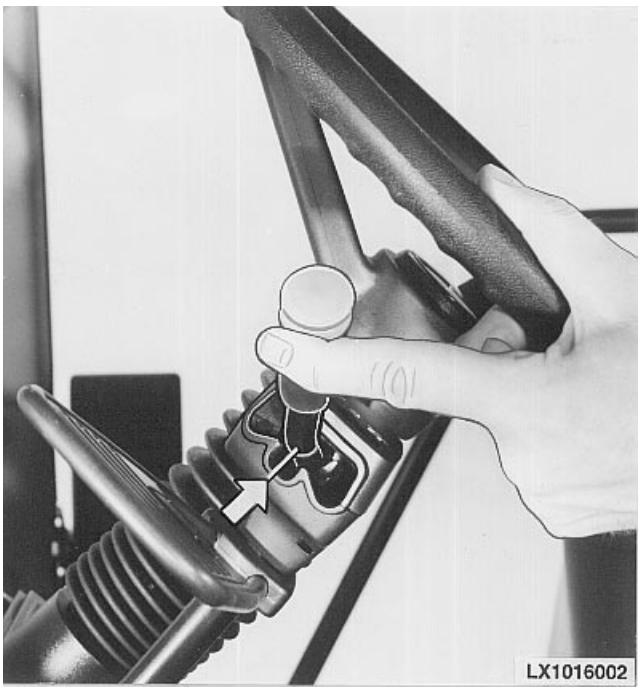
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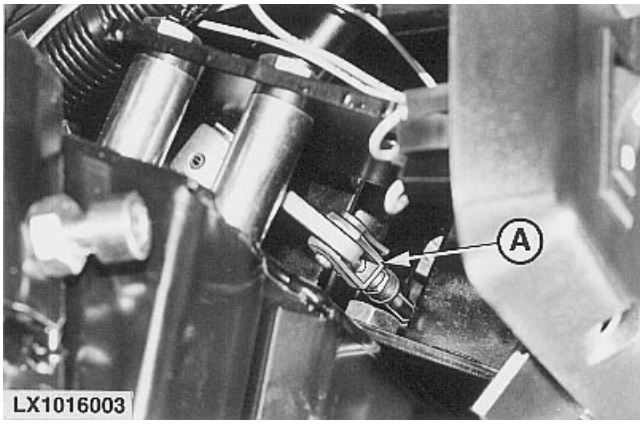
Adjusting the Reverse Drive Lever (Reverser Control on Steering Column)

CAUTION: Do not perform any adjustments with the engine running, as the tractor could move unexpectedly. Switch off the ignition and remove the key.

1. Make sure that the forward/reverse linkage is adjusted correctly.
2. Gear shift lever in neutral position.
3. Pull the reverse drive lever upwards.
4. Neutral for the reverse drive lever must be exactly in the center (see arrow). It must be possible to engage both forward and reverse.
5. If required, disconnect bowden cable (A). Turn the yoke until neutral for the reverse drive lever is exactly in the center. Engage the bowden cable and check that the adjustment is correct.



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LX1016003 –UN–26NOV96

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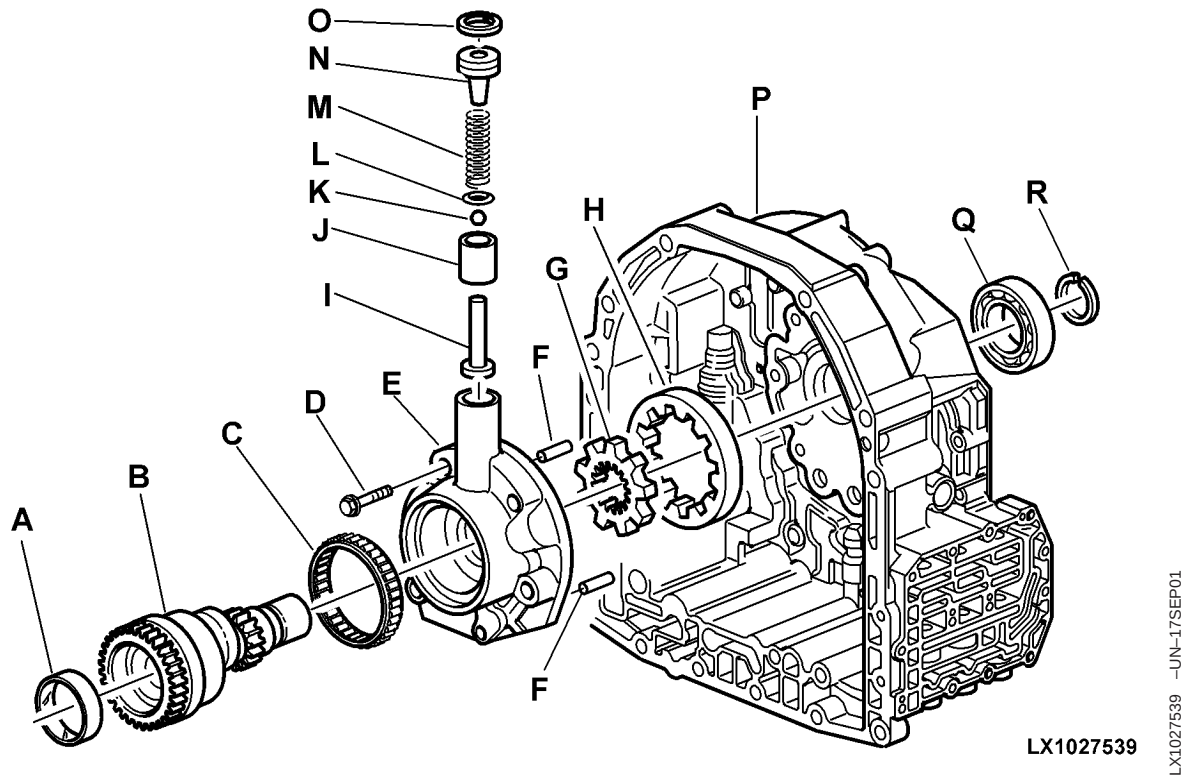
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Reconditioning the Transmission Oil Pump

Preliminary work:

See reference “Removing the Transmission Oil Pump” in this Group.

LX25601,0000452 –19–01OCT02–1/12



A—Bushing
B—Input shaft
C—Needle bearing
D—Screw
E—Pump housing
F—Dowel pin
G—Pump drive gear
H—Pump idler gear
I—Air pump operating pin
J—Pump piston
K—Rubber ball
L—Lower spring retainer
M—Spring
N—Upper spring retainer with O-ring
O—Snap ring
P—Front transmission cover
Q—Bearing
R—Snap ring

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54

Exploded view of the transmission oil pump

Continued on next page

LX25601,0000452 –19–01OCT02–2/12

Reconditioning the Shift Cover

Recondition or assemble the shift cover and the parts of the shift mechanism as required, using the illustration as a guide.

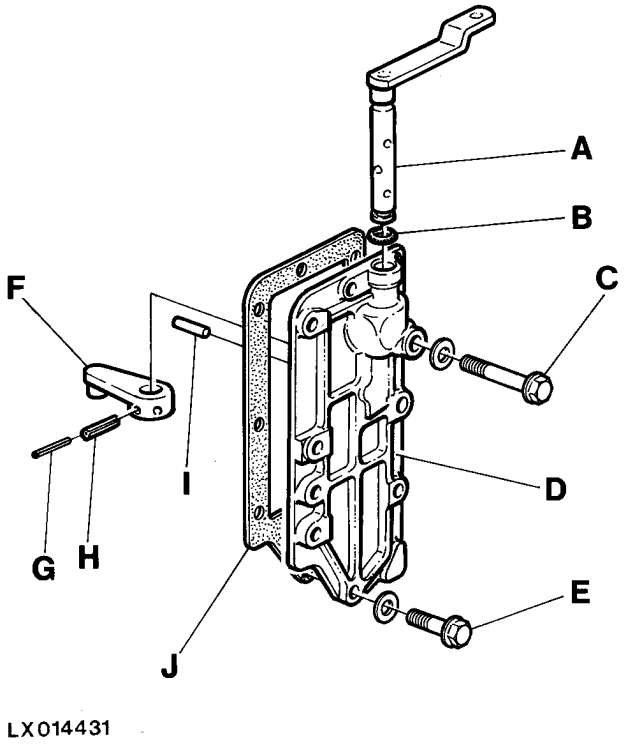
Specification

Cap screws, creeper shift cover to transmission housing—Torque ..... 25 N•m 19 lb-ft

NOTE: Use an M6 screw to extract dowel pin (I).

Drive spring pins (G) into spring pins (H). They must be offset by 180 degrees.

A—Shifter shaft
B—O-ring
C—Cap screw
D—Shift cover
E—Cap screw
F—Lever
G—Spring pin (dia. 5 mm; 13/64 in.)
H—Spring pin (dia. 8 mm; 5/16 in.)
I—Dowel pin
J—Gasket



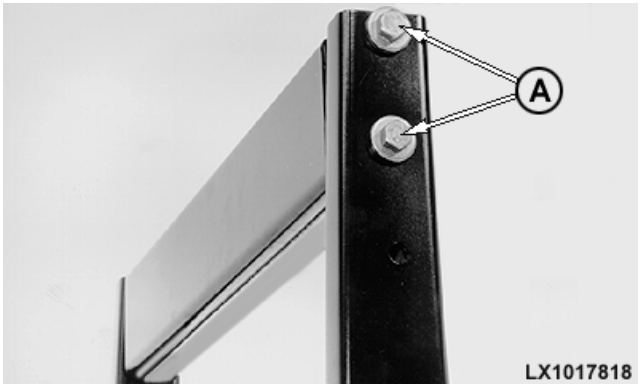
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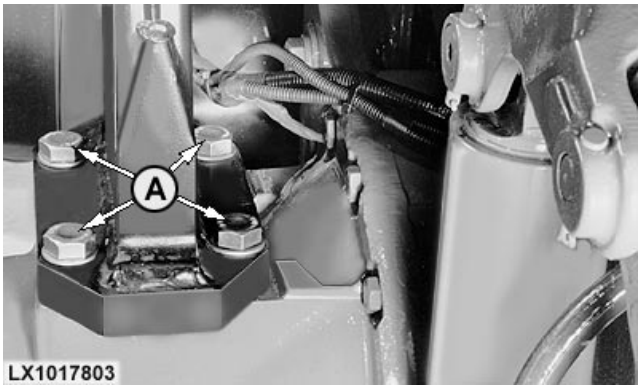
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9. **Open operator's station:** On the side of the tractor where the final drive is to be removed, take cap screws (A) out of the open operator's station.



OULXBER,00007F6 –19–10OCT01–11/16

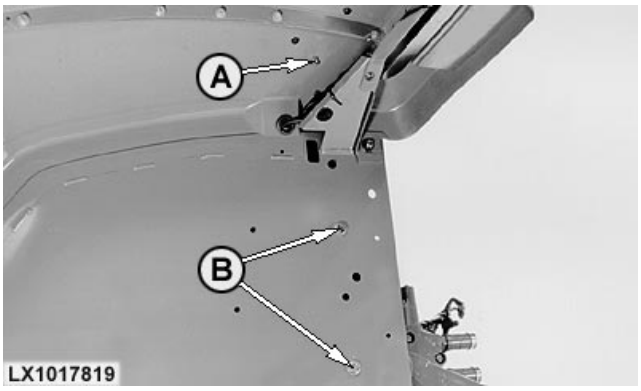
Take out cap screws (A).



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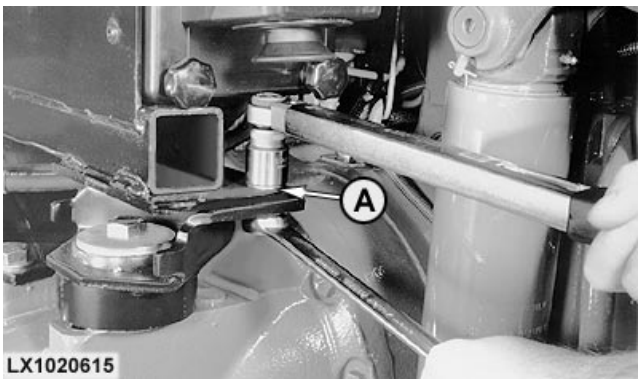
Remove nut (A) and take off cap screws (B). Raise the ROPS post above the final drive.

CAUTION: The post is heavy and awkward to move. You will require the assistance of a second person. Alternatively, secure lifting tackle to the post and raise it.



OULXBER,00007F6 –19–10OCT01–13/16

10. **Tractors with cab:** Take out cap screws (A).

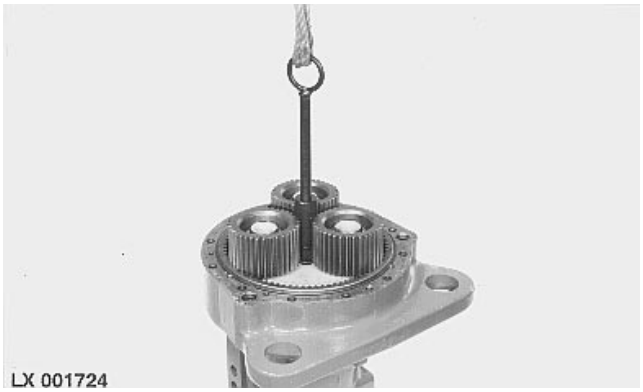


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OULXBER,00007F6 –19–10OCT01–14/16

10. Install the planetary carrier.

11. Insert the special twelve-point screw.



LX001724 –UN–23NOV94

LX23006,000019A –19–19AUG05–21/23

Adjusting rear axle rolling-drag torque

1. Rotate the final drive housing through three complete revolutions. This will settle the bearings.

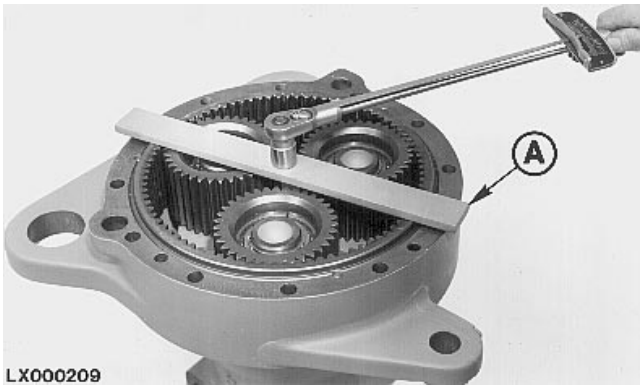
NOTE: Always rotate the final drive housing smoothly through ten complete revolutions before measuring rolling drag torque.

2. Using turning device DFLX7 (A), rotate final drive housing smoothly through ten complete revolutions, and then use a torque wrench to determine rolling drag torque of final drive housing.

3. Add the following value to the rolling drag torque measurement:

Specification	
Rolling drag torque of rear axle—	
Torque	10 to 13.5 N•m 7.5 to 10 lb-ft

4. Tighten special twelve-point screw until the calculated rolling drag torque is achieved.



LX000209 –UN–22NOV94

A—Turning device (dealer-fabricated)

Continued on next page

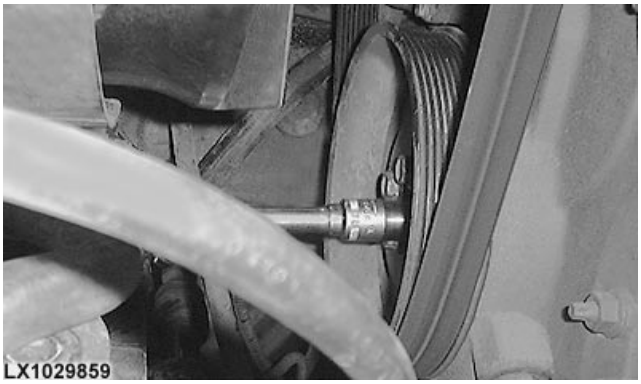
LX23006,000019A –19–19AUG05–22/23

Tractors with 4-cylinder engines (except TIER II engines)

Take out the cap screws and lift off the retaining disk. The retaining disk is no longer required.



LX1029858 –UN–25JUL02



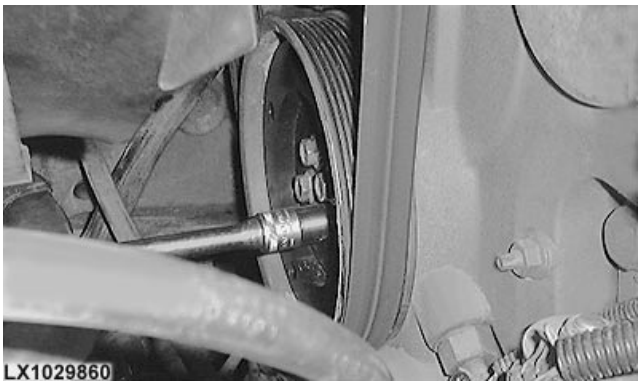
LX1029859 –UN–25JUL02

LX25458,NA0019B –19–01DEC02–2/3

Install the adapter. Dip the cap screws in oil, then insert and tighten them.

Specification

Adapter to pulley, cap screws—	
Torque (wet)	80 N•m 59 lb-ft



LX1029860 –UN–25JUL02

LX25458,NA0019B –19–01DEC02–3/3

56
40
5

1—Cap screw (8 used)
4—Cover
5—Intermediate cover
6—Gasket
7—Plug
8—O-ring
9—Valve
10—O-ring
11—O-ring
12—LS check valve assembly
13—Plug (2 used)
14—O-ring (2 used)
15—Spring (2 used)
16—Spool (2 used)
17—Expansion plug
18—Spring (2 used)
19—Valve assembly (2 used)
20—O-ring (2 used)
21—O-ring (2 used)
22—Cover (2 used)
23—Plug
24—O-ring
25—Valve spool
26—O-ring
27—O-ring
28—Expansion plug (4 used)
29—Expansion plug (2 used)
30—Orifice (2 used)
31—Spring (2 used)
32—O-ring (2 used)
33—Fitting (2 used)
34—Outlet valve assembly (2 used)
35—O-ring
36—Fitting
37—O-ring
38—Valve assembly
39—O-ring
40—Fitting
41—Inlet check valve assembly
42—Wiper seal (2 used)
43—O-ring (2 used)
44—Guide piece (2 used)
45—O-ring (2 used)
46—Piston (2 used)
47—Snap ring (4 used)
48—Seal ring and O-ring (2 used)
49—Annular piston (2 used)
50—Seal ring and O-ring (2 used)
51—Seal ring (2 used)
52—Spring
53—Cap screw (2 used)
54—Hex. nut (2 used)
55—Threaded pin with filter insert
56—Valve (2 used)
57—O-ring
58—Fitting
59—O-ring
60—Spring
61—Valve spool[1]
62—Seal ring[1]

Exploded view

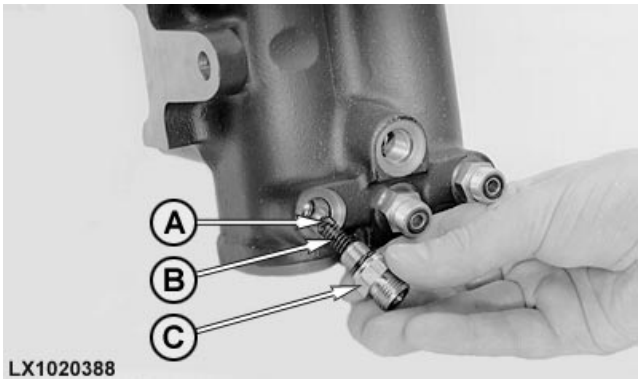
[1]Parts must not be interchanged

LX25458,0000027 –19–01AUG02–23/57

Assembling the brake valve

Install the outlet valves.

A—Orifice
B—Spring
C—Fitting



LX1020388 –UN–26MAY98

Continued on next page

LX25458,0000027 –19–01AUG02–24/57

6. Locate endplate (D) (remembering to include O-rings), and tighten hex. nuts (B).

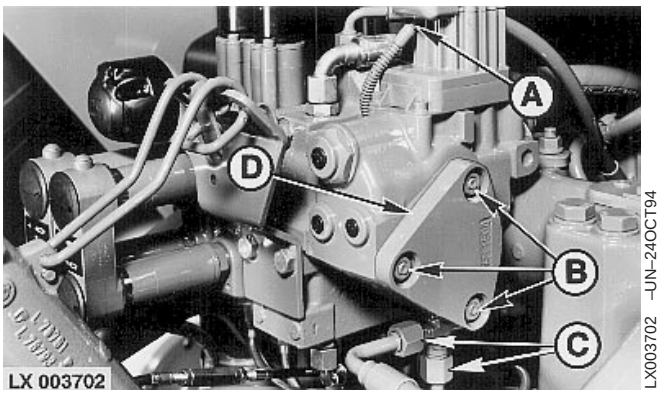
Specification

Endplate to rockshaft valve, hex. nuts—Torque	35 N•m 26 lb-ft

7. Join the plug connection for stepper motor (A) and put on the protective cap.

8. Connect hydraulic lines (C).

9. If the rockshaft valve or stepper motor has been repaired, the rockshaft must be recalibrated. See "Reference 245-BCU-002, Calibration and Input Addresses (Rockshaft Control)" in the ”Operation and Tests” manual.



LX003702 –UN–24OCT94

70
15
21

LX24603,000035E –19–01NOV03–2/2

1—Inlet plate
2—Threaded pin with throttle bore
3—Pressure relief valve with seal ring
4—O-ring
5—Control valve housing for loader boom
6—Control spool
7—O-ring
8—Spacer
9—O-ring
10—Spring seat
11—Centering spring
12—O-ring
13—Special screw
14—Ball (4 used)
15—Detent spring
16—Ball
17—Housing assembly
18—Sleeve
19—Plate
20—Snap-ring
21—Cap
22—Hex. socket screw (2 used)
23—Spacer sleeve (2 used)
24—Pressure compensator piston
25—Spring
26—Control valve housing for loader bucket
27—Control spool
28—Back-up ring
29—Seal plate
30—Sleeve
31—Hex. socket screw (2 used)
32—Spring
33—Endplate
34—5/16" stud (2 used)
35—5/16" hex. nut (4 used)
36—3/8" hex. nut (2 used)
37—3/8" stud
38—Flange
39—O-ring
40—Hex. socket screws
41—Shuttle valve

Reconditioning control valves (with pressure compensator)

General information

For removal of the ICV, refer to ”Removing the Independent Control Valve (M-ICV)” in this Group.

For reconditioning the inlet plate (1), see ”Independent Control Valves — Reconditioning the Inlet Plate” in this Group.

CAUTION: Comply with the general instructions on safety and reconditioning. See reference ”Reconditioning the Selective Control Valves and Couplers — General Instructions on Safety and Reconditioning” in Section 70, Group 25.

IMPORTANT: The SCV unit and valve spool must be held firmly in a vice with brass jaws, otherwise the SCV unit may become damaged and have to be replaced.

Disassembling the control valves

1. Mark the control valves.
2. Using the illustration as a guide, disassemble the control valves as necessary.
3. Take care when removing sleeves (18) and (30), as balls (14) and (16) may spring out.
4. Clean the various parts, inspect them for wear or damage and replace as necessary.

Continued on next page

Installing the Front Axle

1. Steering cylinder to axle knee

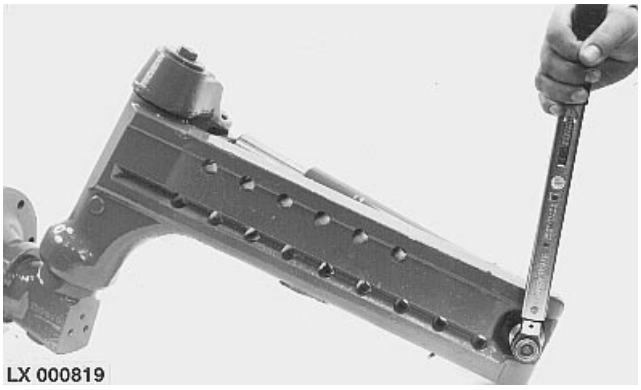
2. Tighten the slotted nut.

Specification

Steering cylinder to axle knee, slotted nut—Torque ..... 100 N•m (75 lb-ft)

3. Secure the slotted nut with a cotter pin

NOTE: If the cotter pin cannot be installed in this position, turn the slotted nut until the cotter pin can be secured.



LX25601,0000392 –19–01SEP01–1/5

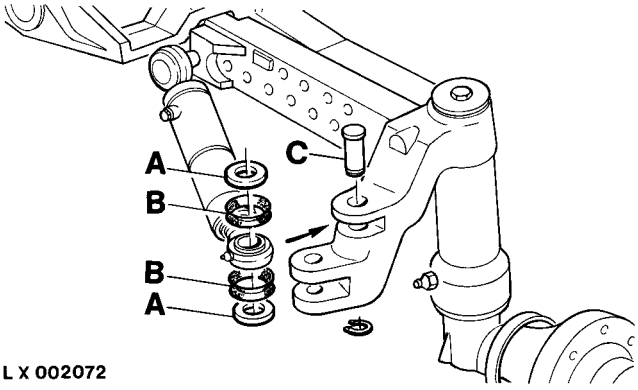
4. Connect the steering cylinder to the steering arm.

NOTE: Make sure that the grease fitting is pointing to the rear.

Bordered edge of washer (A) must face seal ring (B).

NOTE: Ensure that the border locates the seal ring correctly in the center.

5. Install and secure pin (C).



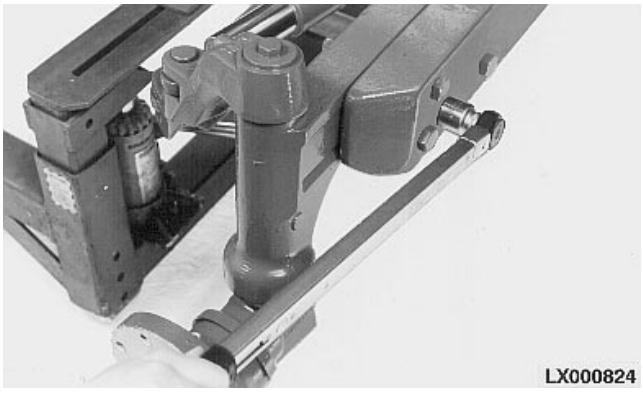
LX25601,0000392 –19–01SEP01–2/5

6. Use attaching screws to install the axle knee on the front axle center section.

Tighten the cap screws.

Specification

Axle knee to front axle center, cap screws—Torque ..... 400 N•m (300 lb-ft)



Continued on next page

LX25601,0000392 –19–01SEP01–3/5

Reconditioning the Accumulator

1. If necessary, remove the accumulator. See “Removing the Accumulator” in this Group.

NOTE: What follows applies to all accumulators on the front-wheel drive axle with TLS.

2. Relieve hydraulic system pressure. See “Relieving Hydraulic System Pressure” in this Group.

LX25597,0000466 –19–01AUG01–1/2

3. Remove lock nut (D) from accumulator (A).

4. Take out the special screw (C). **Nitrogen escapes at this point.**

5. Remove seal ring (B).

6. Clean all sealing surfaces and use a new seal ring.

7. Re-install special screw (C) in accumulator (A).

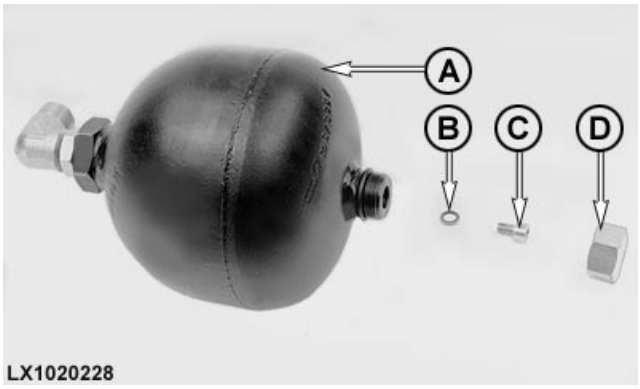
Specification

Accumulator, special screw—
Torque ..... 20 N•m
15 lb-ft

IMPORTANT: The accumulator must be charged with nitrogen. See Reference 280-15-002 in the relevant technical manual, Section 280, Group 15.

8. Once charging is completed, screw lock nut (D) back onto the accumulator (A).

9. If necessary, install the accumulator. See “Installing the Accumulator” in this Group.



LX1020228 –UN–24APR98

LX25597,0000466 –19–01AUG01–2/2

Terminating resistor in cab roof, 4-terminal (A15)

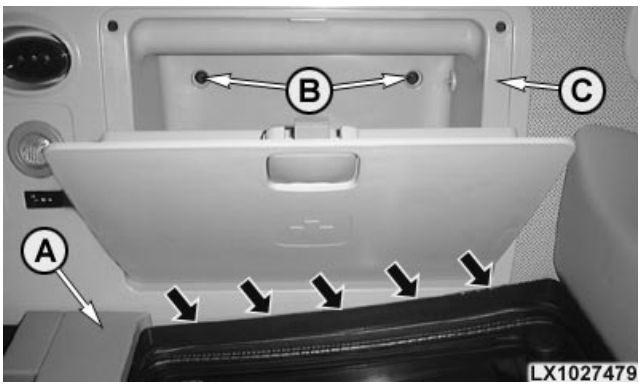
Remove panel (A) and hex. socket screws (B).

Carefully pry out first aid kit compartment (C) across edge (arrows).

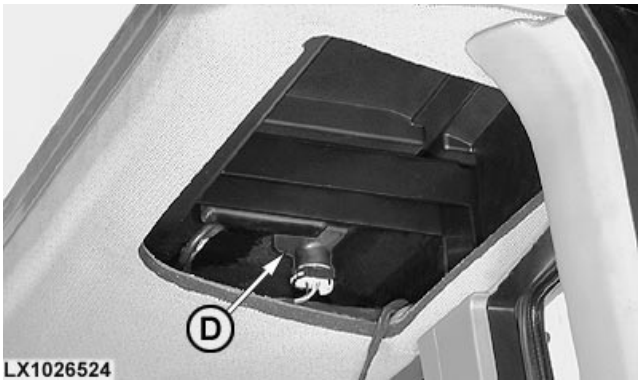
Remove bus resistor rivets.

Install new terminating resistor (D) with rivets.

For installation, follow removal procedure in reverse order.



LX1027479 –UN–15AUG01



LX1026524 –UN–08JAN02

90
05
13

LX25458,0000068 –19–23JUN05–5/8

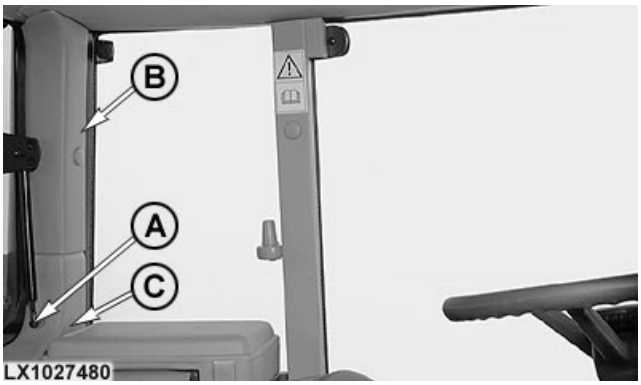
11-bit CAN-BUS System (6-terminal; A17)

Disengage gas-filled strut (A).

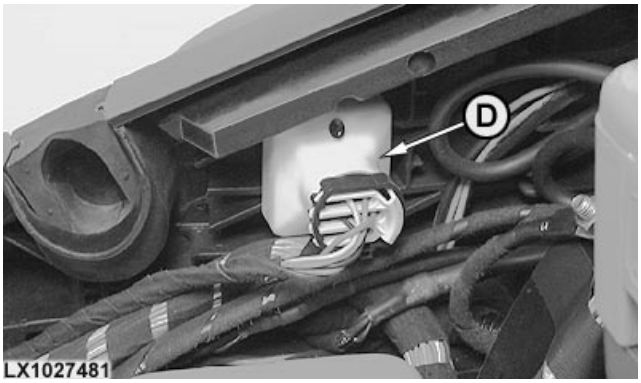
Remove covers (B) and (C).

Remove terminating resistor (D).

For installation, follow removal procedure in reverse order.



LX1027480 –UN–14AUG01



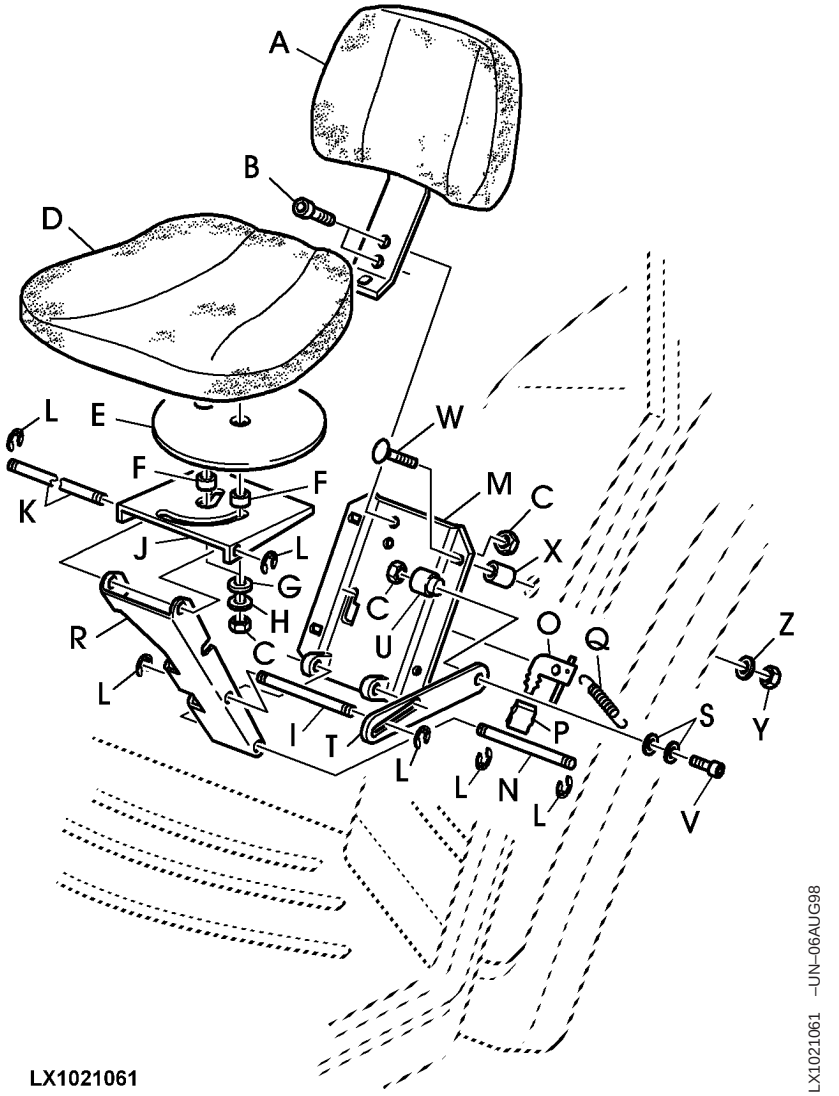
LX1027481 –UN–15AUG01

Terminating resistor

Continued on next page

LX25458,0000068 –19–23JUN05–6/8

Exploded View of the Instructional Seat



LX1021061

A—Backrest
B—Hex. socket screw (2 used)
C—Hex. nut (3 used)
D—Seat cushion
E—Bearing plate
F—Sleeve (2 used)
G—Spacer (2 used)
H—Washer (2 used)
I—Pin
J—Turntable
K—Pin
L—Snap ring (6 used)
M—Seat support
N—Pin
O—Lever
P—Grip
Q—Spring
R—Seat rocker
S—Washer (2 used)
T—Retaining strap
U—Bushing
V—Hex. socket screw
W—Mushroom-head screw (4 used)
X—Shim (4 used)
Y—Hex. nut (4 used)
Z—Washer (4 used)

Continued on next page

LX25458,0000054 –19–06AUG01–1/2

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