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Safety

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Engine Specifications

Type
- 6230, 6330, 6430, 7130, 7230 ..... turbocharged Diesel engine with intercooler

Number of cylinders
- 6230, 6230, 6330, 6430 4
- 7130, 7230 6

Bore ..... 106 mm (4.19 in.)

Stroke ..... 127 mm (5.00 in.)

Displacement
- 6230, 6230, 6330, 6430 ..... 4.5 L (276 cu.in.)
- 7130, 7230 ..... 6.8 L (414 cu.in.)

Firing order
- 4-cylinder tractors 1-3-4-2
- 6-cylinder tractors 1-5-3-6-2-4

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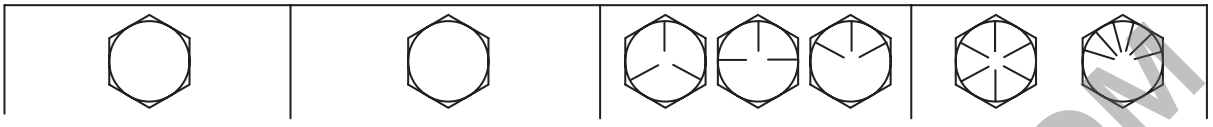
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Unified Inch Bolt and Screw Torque Values

TS1671 –UN–01MAY03



Bolt or	SAE Grade 1				SAE Grade 2[a]				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
Screw	Lubricated[b]		Dry[c]		Lubricated[b]		Dry[c]		Lubricated[b]		Dry[c]		Lubricated[b]		Dry[c]	
Size	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in
1/4	3.7	33	4.7	42	6	53	7.5	66	9.5	84	12	106	13.5	120	17	150
													N•m	lb-ft	N•m	lb-ft
5/16	7.7	68	9.8	86	12	106	15.5	137	19.5	172	25	221	28	20.5	35	26
									N•m	lb-ft	N•m	lb-ft				
3/8	13.5	120	17.5	155	22	194	27	240	35	26	44	32.5	49	36	63	46
			N•m	lb-ft	N•m	lb-ft	N•m	lb-ft								
7/16	22	194	28	20.5	35	26	44	32.5	56	41	70	52	80	59	100	74
	N•m	lb-ft														
1/2	34	25	42	31	53	39	67	49	85	63	110	80	120	88	155	115
9/16	48	35.5	60	45	76	56	95	70	125	92	155	115	175	130	220	165
5/8	67	49	85	63	105	77	135	100	170	125	215	160	240	175	305	225
3/4	120	88	150	110	190	140	240	175	300	220	380	280	425	315	540	400
7/8	190	140	240	175	190	140	240	175	490	360	615	455	690	510	870	640
1	285	210	360	265	285	210	360	265	730	540	920	680	1030	760	1300	960
1-1/8	400	300	510	375	400	300	510	375	910	670	1150	850	1450	1075	1850	1350
1-1/4	570	420	725	535	570	420	725	535	1280	945	1630	1200	2050	1500	2600	1920
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2140	1580	2700	2000	3400	2500
1-1/2	990	730	1250	930	990	730	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For plastic insert or crimped steel type lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Replace fasteners with the same or higher grade. If higher grade fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

[a]Grade 2 applies for hex cap screws (not hex bolts) up to 6. in (152 mm) long. Grade 1 applies for hex cap screws over 6 in. (152 mm) long, and for all other types of bolts and screws of any length.

[b]"Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C zinc flake coating.

[c]"Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B zinc flake coating.

DX,TORQ1 –19–24APR03–1/1

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Remove the Engine

IMPORTANT: Place tractor on firm, level ground.

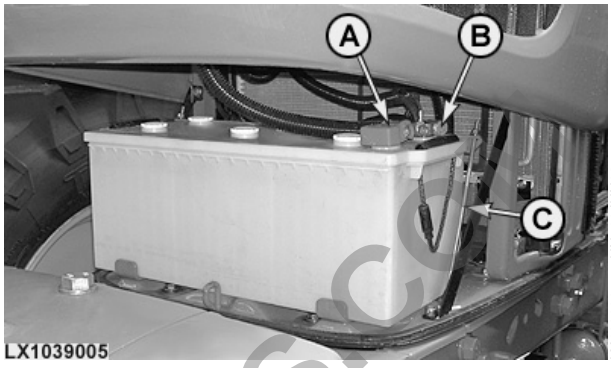
IMPORTANT: Before disassembling the engine, mark where the cables and hoses are connected; this will make it easier to re-assemble them.

1. Open the hood and disconnect battery terminals (A) and (B).

CAUTION: Disconnect the negative terminal first. Always reconnect the positive terminal first. Always pay close attention to battery terminals.

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

Release retaining strap (C) and lift off the battery.



A—Battery terminal
B—Battery terminal
C—Retaining strap

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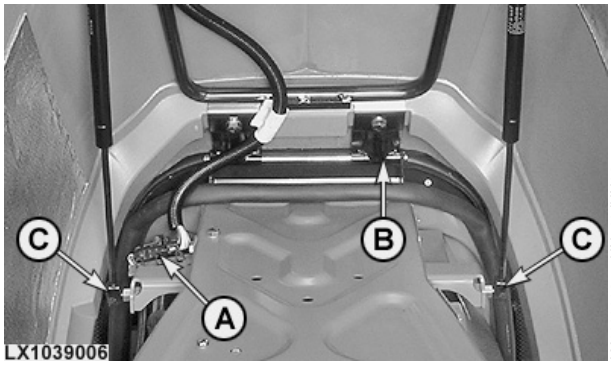
2. Remove engine hood. This is done by pulling out connector (A) and disconnecting the two gas-filled damper struts from the frame at (C). Remove hinge (B) from the front frame, remove nuts (D) for this purpose.

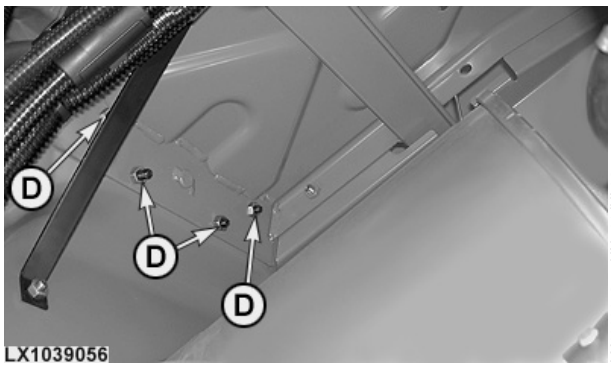
NOTE: The hood is heavy and awkward to move; you will require the assistance of a second person.

3. Drain the coolant; see “Remove the Radiator” in Section 30, Group 20.

IMPORTANT: When you close the drain valve, do not overtighten it!

4. Remove muffler pipe, see “Exhaust System (Summary of References)” in Section 30, Group 30.





A—Connector
B—Hinge
C—Damper connecting point
D—Nuts

Continued on next page

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Special Tools, Summary of References

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

D01210AA - Puller

KJD10177 - Pressure tool

DFLX16 - Wooden block

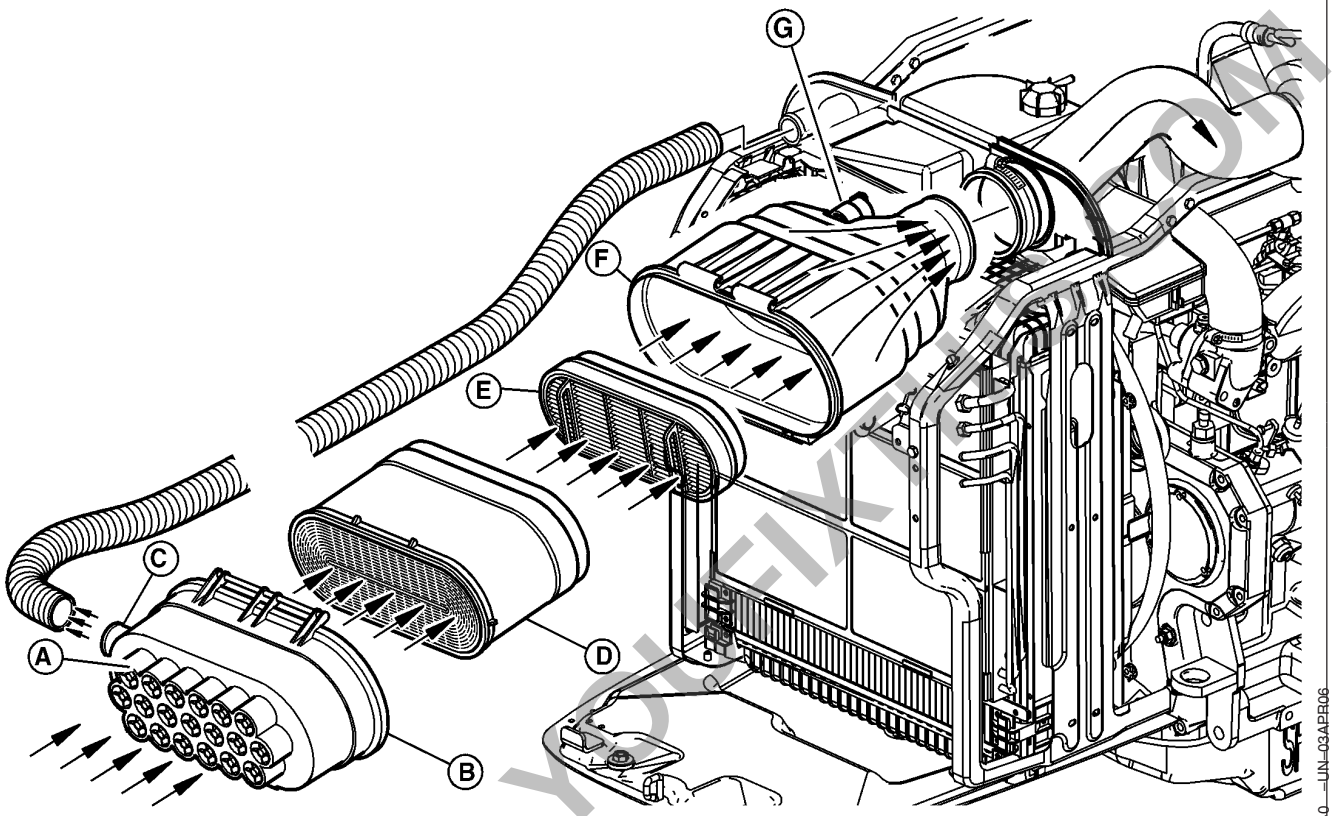
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Air Cleaner - Exploded View



LX1037440

LX1037440 –UN–03APR06

A—Air intake openings
B—Air cleaner housing
C—Outlet
D—Primary filter element
E—Secondary (safety) element
F—Outlet tube
G—Sending unit for air cleaner restriction

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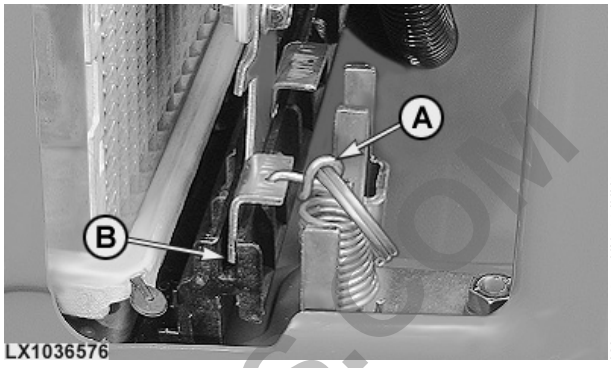
a. Disconnect retaining springs (A) on both sides of the condenser.

b. Remove all the clamps on the refrigerant hoses.

c. “Relieve the Tension on the Drive Belt”, see Section 30, Group 20.

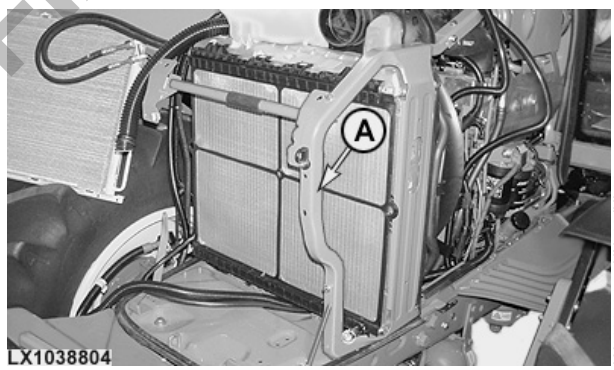
d. Set the condenser safely aside.

A—Retaining springs
B—Lower guide rail



LX25458,0000301 –19–30JUN06–9/11

12. Remove both side panels.



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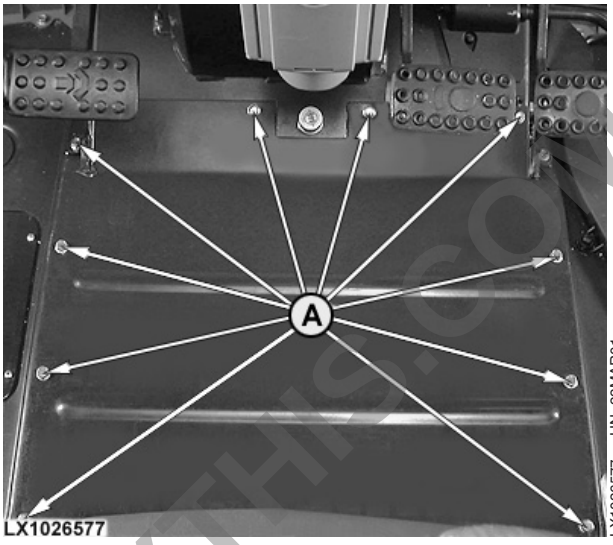
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5. **Remove the floor plate:**

   a. **On tractors with cab:**

      Remove the mat from the cab floor, take out screws (A) and lift off the floor-plate.

      A—Screws

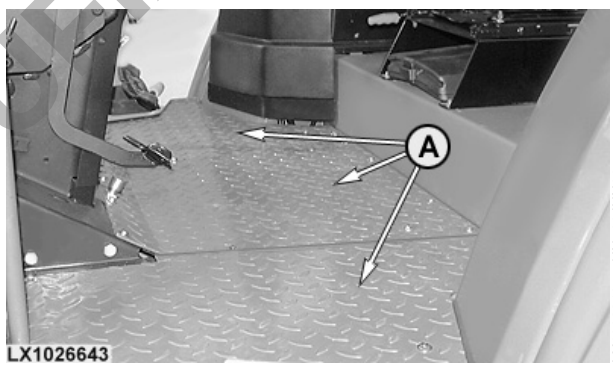


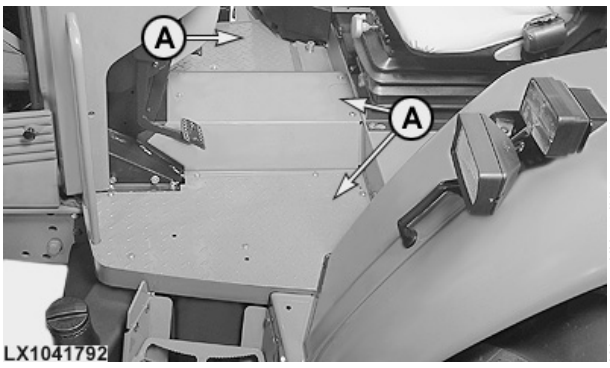
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   b. **Tractors with open operator's station:**

      Remove all three floor plates (A).

      A—Floor plates





On low-profile open operator's station

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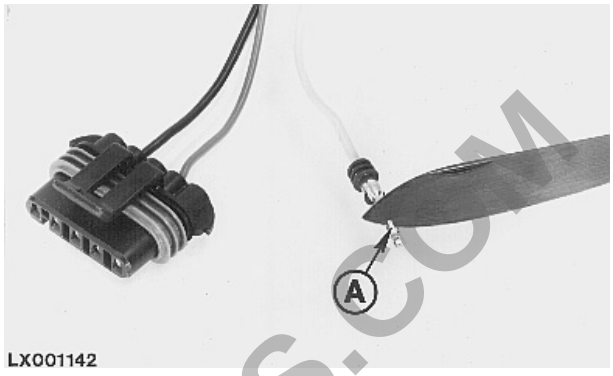
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Installing a terminal

Before installing a male or female terminal, bend locking tang (A) back to its original position.

From the back, insert the female terminal into the terminal body.

Put on the locking cap.

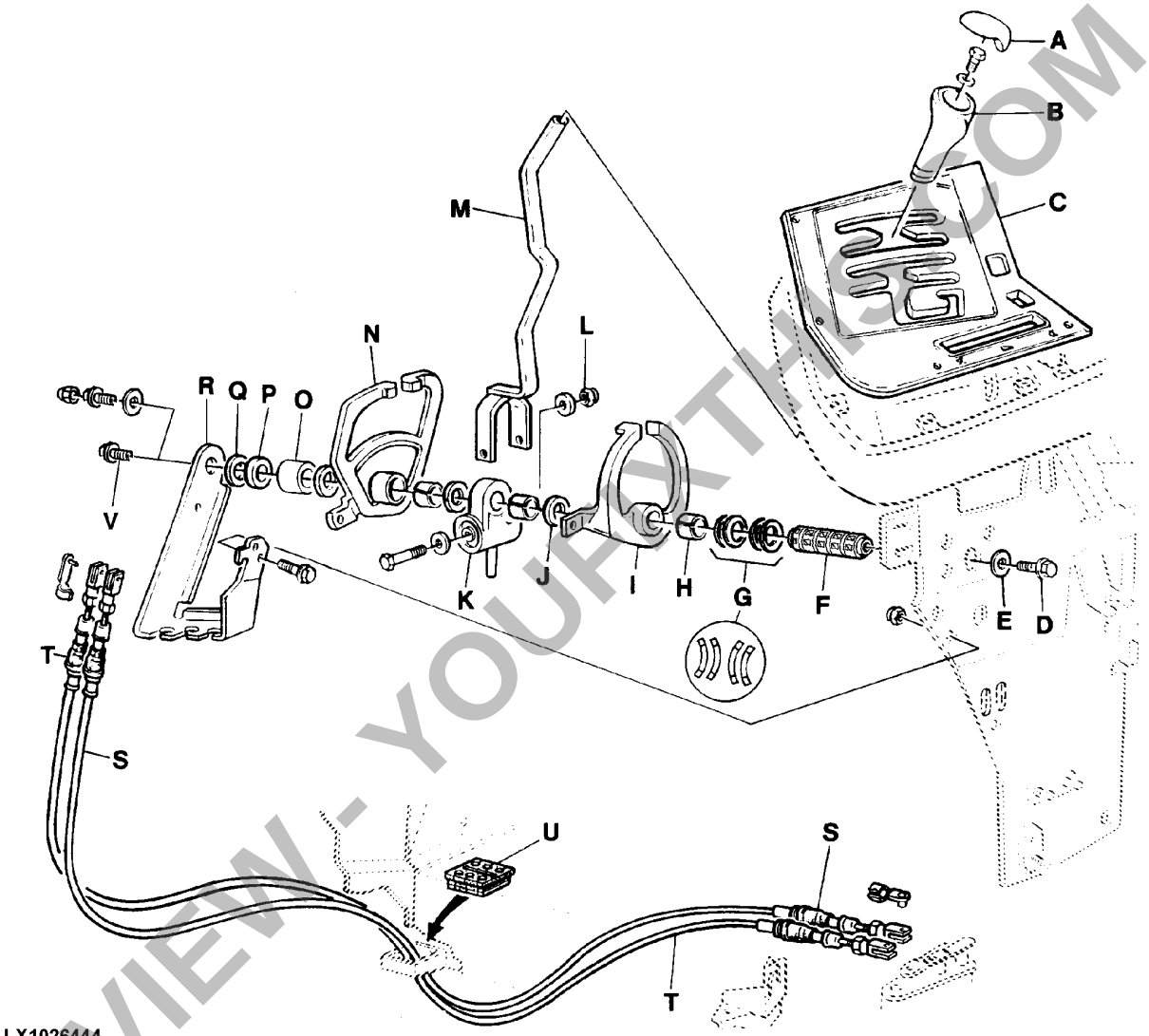


AG,LX25599,63 –19–08OCT04–6/6

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Recondition Range Shift Mechanism



LX1026444 –UN–23MAY01

A—Cap
B—Grip
C—Shift gate
D—Cap screw
E—Washer
F—Bearing pin
G—Belleville spring
H—Bearing bushing
I—Shift quadrant, ranges A and B
J—Washer
K—Support
L—Self-locking hex. nut
M—Shift lever
N—Shift quadrant, ranges C and D
O—Bushing
P—Washer
Q—Shim (thickness as required)
R—Bracket
S—Bowden cable, ranges A and B
T—Bowden cable, ranges C and D
U—Rubber grommet
V—Attaching screw with integrated grease fitting[1]

[1]*Tractors without cab only*

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LX25601,00008CC –19–11JUL07–1/3

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Adjust preload at quadrants

Specification

Shift quadrants—Preload ..... 0.9 - 1.5 mm
0.035 - 0.059 in.

1. Install parts (D) to (P).

NOTE: Install washers (K) with the coated sides facing the quadrants.

Note specified tightening torques.

2. Without preload on Belleville springs (G), measure projecting end (a) of bearing pin (F).

3. Calculate thickness of shims (d). Add between 0.9 mm (0.035 in.) and 1.5 mm (0.059 in.) to (a). The sum represents the thickness of shims (P) to be used.

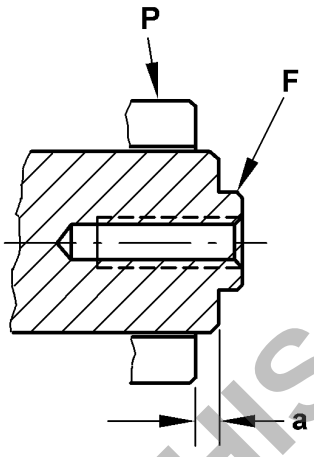
   d (min.) = a + 0.9 mm (0.035 in.)

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

4. If necessary, round off the result. When (d) is at its minimum, round the sum up; when (d) is at its maximum, round the sum down.

Sample calculation
Projecting end of bearing pin is: a = 0.3 mm (0.012 in.)
d (min.) = 0.3 mm + 0.9 mm = 1.2 mm
d (min.) = 0.012 in. + 0.035 in. = 0.047 in.
d (max.) = 0.3 mm + 1.5 mm = 1.8 mm
d (max.) = 0.012 in. + 0.059 in. = 0.071 in.
In this example, shim (Q) must be 1.5 mm (0.059 in.) thick.

NOTE: A selection of shims with different thicknesses is available through normal parts channels.



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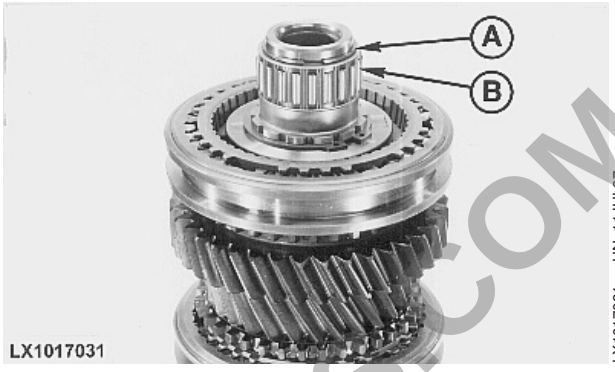
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Disassemble the drive shaft

1. Remove snap ring (A).
2. Remove needle bearing (B) with thrust washers.



LX25601,000091F –19–20JUL07–6/7

3. Disassemble the drive shaft.



LX25601,000091F –19–20JUL07–7/7

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Recondition Gear Transmission

Preliminary work: See “Disassemble Gear Transmission”.

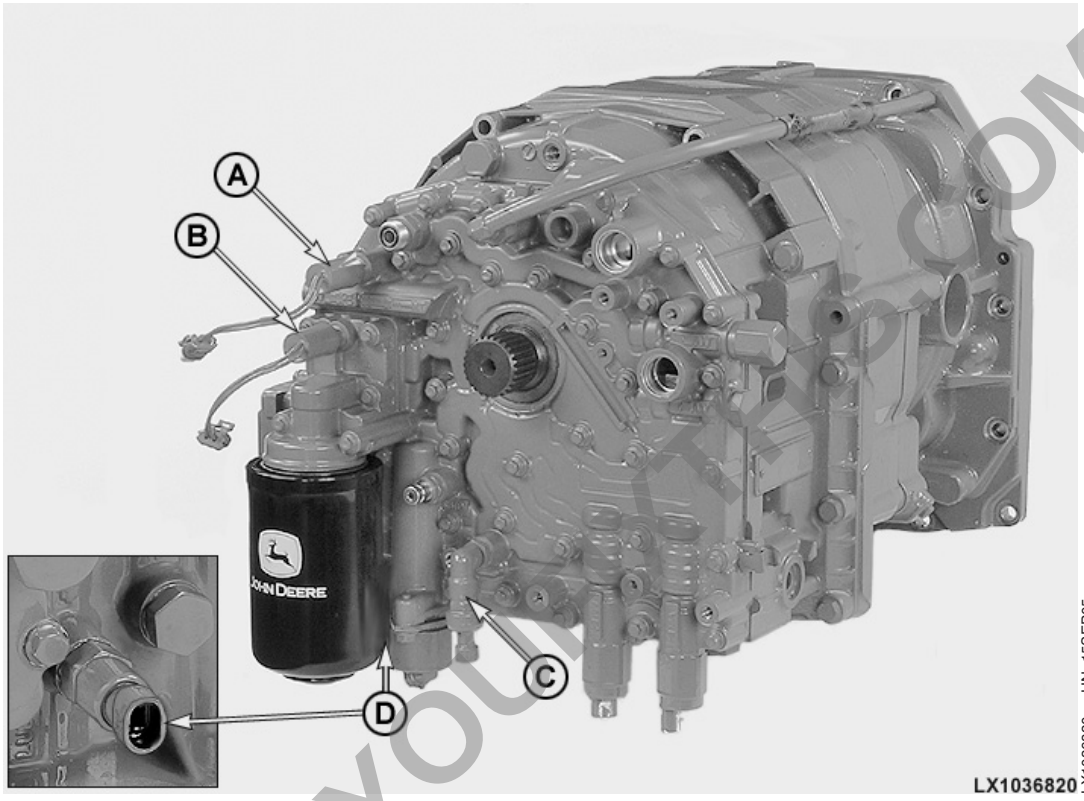
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LX25601,0000920 –19–20JUL07–1/21

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Replace the Temperature Sensor and Pressure Switches



A—Pressure switch, system pressure

B—Pressure switch for the transmission oil filter restriction indicator

C—Pressure switch, clutch pressure

D—Temperature sensor

1. Replace pressure switch for system pressure (A) and tighten to specification.

Specification

Pressure switch, system pressure—Torque ..... 4 to 7 N•m
3 to 5 lb-ft

2. Replace the pressure switch for the transmission oil filter restriction indicator (B), and tighten to specification.

Specification

Pressure switch for the transmission oil filter restriction indicator—Torque ..... 4 to 7 N•m
3 to 5 lb-ft

3. Replace pressure switch for clutch pressure (C) and tighten to specification.

Specification

Pressure switch, clutch pressure—Torque ..... 9 N•m
6 lb-ft

4. Temperature sensor (D) is installed on the underside of the transmission. Replace temperature sensor (D) and tighten to specification.

Specification

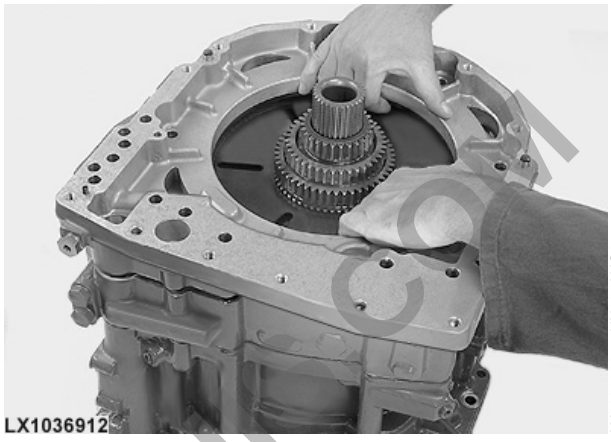
Temperature sensor—Torque ..... 4 to 7 N•m
3 to 5 lb-ft

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10
7

LX25601,000077D –19–15SEP05–1/1

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4. With the piston plate in position, turn the B1 brake housing through 180 degrees and install it on the disk pack.



LX25601,0000795 –19–27OCT05–4/5

5. Tighten attaching screws to specification.

Specification	
B1 brake housing, attaching screws—Torque	60 N•m 44 lb-ft

Next step:

See ”Install the Gear-Shift Planetary Drive”.



LX25601,0000795 –19–27OCT05–5/5

Remove the B2-B3 Brake Housing

55
10
81

Preliminary work:

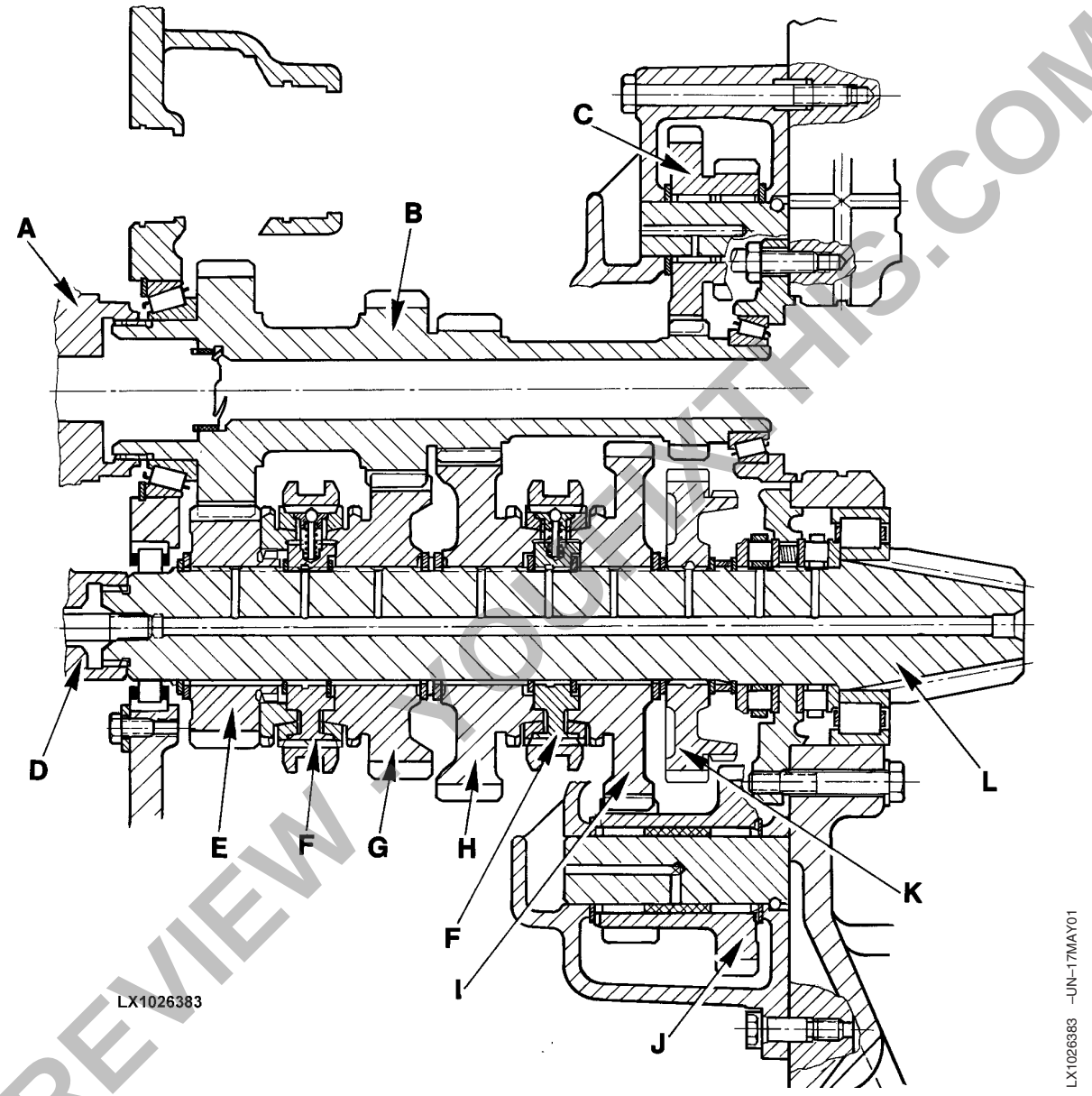
See ”Remove the B1 Brake Housing”.

Continued on next page

LX25601,0000796 –19–15SEP05–1/4

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Range Transmission - Sectional View



55
25
4

A—Drive shaft of option transmission
B—Drive shaft
C—Double gear
D—Option transmission countershaft
E—Gear (range D)
F—Synchronizer unit
G—Gear (range C)
H—Gear (range B)
I—Gear (range A)
J—Double gear
K—Front-wheel drive gear
L—Differential drive shaft

The illustration shows the 20- and 24-speed transmissions

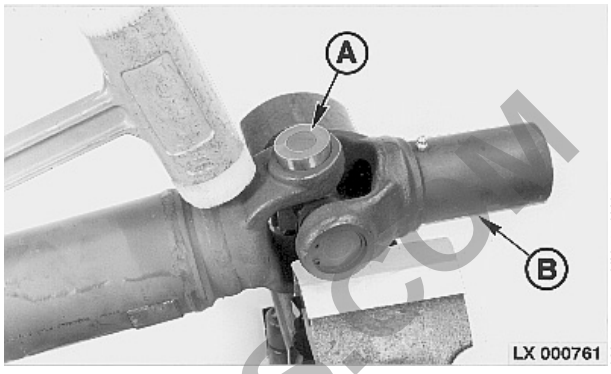
LX25601,00007CF –19–21FEB06–1/1

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NOTE: Use specially shaped blocks on the vise to protect the shaft and fork.

2. Place connecting fork (B) on top of an open vise. Do NOT clamp it in the vise!
3. Drive bearing cup (A) out of jointed shaft.
4. Turn jointed shaft round and remove bearing cup on opposite side.

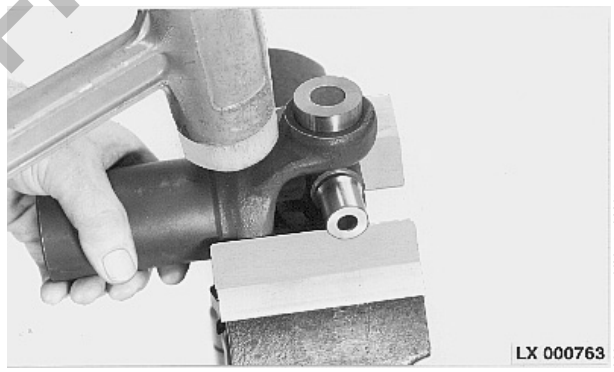
A—Bearing cup
B—Connecting fork



LX000761 –UN–15JAN96

LX23006,0000415 –19–19DEC05–2/10

5. Drive bearing cups out of connecting fork.



LX000763 –UN–15JAN96

LX23006,0000415 –19–19DEC05–3/10

6. Remove the universal joint.



LX000764 –UN–15JAN96

Continued on next page
LX23006,0000415 –19–19DEC05–4/10

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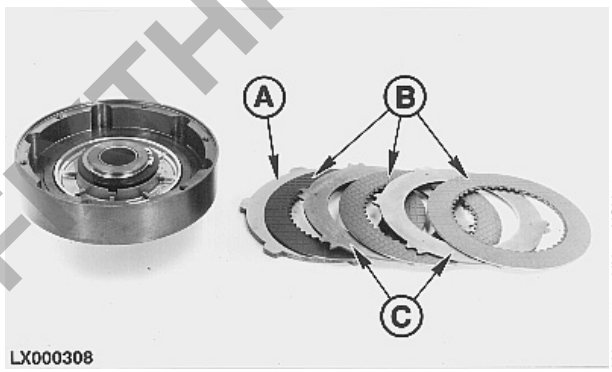
8. Press new bushing (A) into clutch drum until it is seated.



LX25597,0000479 –19–22MAR07–8/11

9. After installing the compression springs, first install pressure plate (A), then alternately disks (B; with teeth on inside) and disks (C; with teeth on outside). Lightly coat disks with oil before installation.

A—Pressure plate
B—Disk with teeth on inside (3 used)
C—Disk with teeth on inside (2 used)



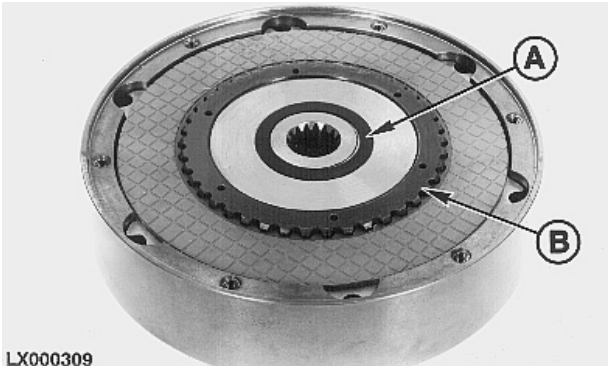
LX25597,0000479 –19–22MAR07–9/11

10. Use grease to attach one thrust washer (A) to each side of hub (B) and insert hub into clutch drum. Make sure that the teeth on the hub engage in the teeth on the disks.

11. Tighten the cap screws on the cover.

Specification

Cover to clutch drum, cap screws—Torque..... 30 N•m
22 lb-ft



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LX25597,0000479 –19–22MAR07–10/11

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56
30
11

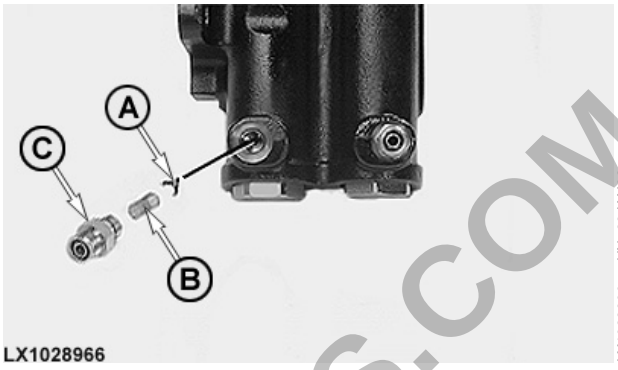
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60
15
8

Assemble the brake valve

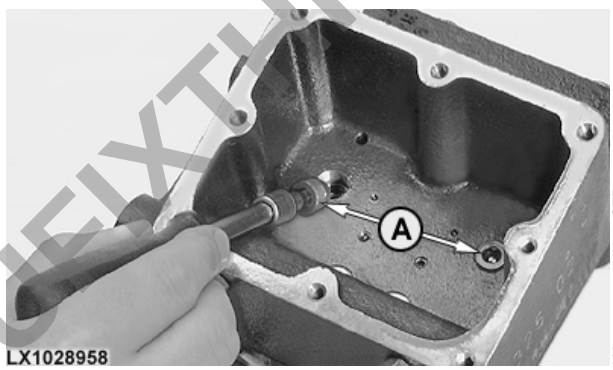
Install the outlet valves.

A—Orifice
B—Spring
C—Fitting



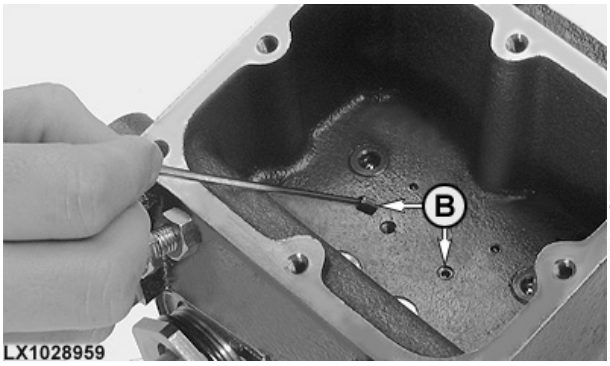
LX25458,000060B –19–26JUN07–15/29

Install valves (A).



LX25458,000060B –19–26JUN07–16/29

Install restrictors (B).

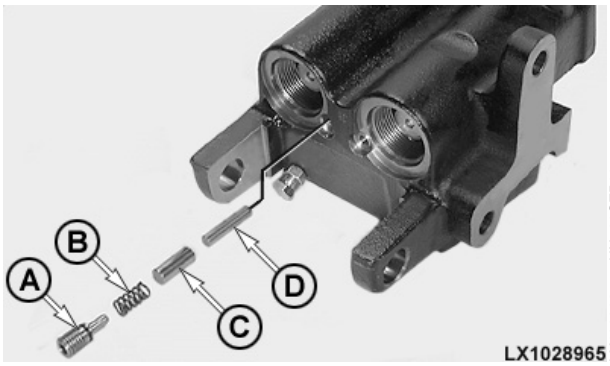


LX25458,000060B –19–26JUN07–17/29

Install pins (D) and (C) and spring (B).

Tighten plug (A).

A—Plug
B—Spring
C—Pin
D—Pin



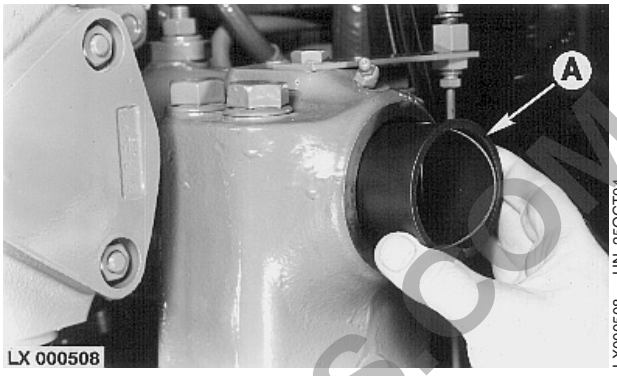
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LX25458,000060B –19–26JUN07–18/29

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Installing the rockshaft

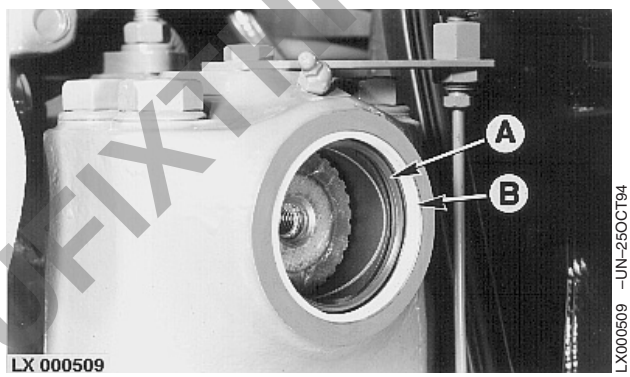
1. Install new bearing bushings (A) with the slot facing downward.
2. Coat inside of bearing bushings with grease.



LX24603,00004B1 –19–20JUN06–5/7

3. Install a new seal ring (A) 5 mm (0.2 in) from the outer edge of the bearing block with the seal lip facing outward. Coat the seal lip with grease.
4. Install a new back-up ring (B).
5. Insert the rockshaft or push it back, and apply grease to the teeth.

A—Seal ring
B—Back-up ring



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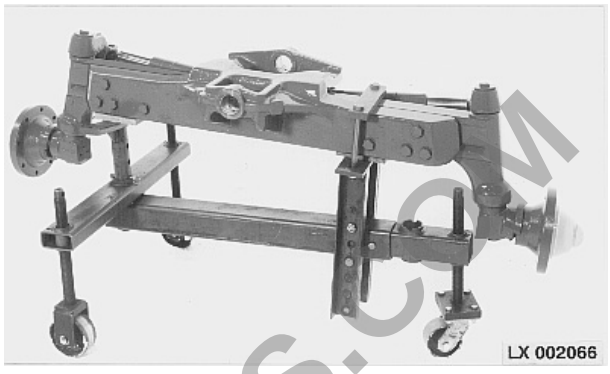
LX24603,00004B1 –19–20JUN06–6/7

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NOTE: There is no need to remove the front axle to repair the knuckle and spindle assembly or wheel hub.

NOTE: Reconditioning the hub does NOT require removal of the axle knee.



LX002066 –UN–13SEP94

LX25601,0000390 –19–01SEP01–2/2

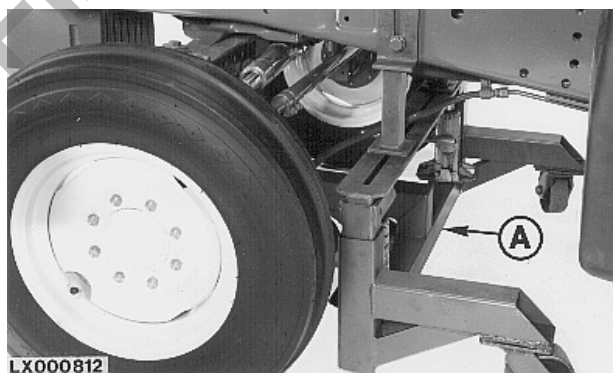
Reconditioning the Front Axle

Preliminary work: See “Removing the Front Axle”.

LX25601,0000391 –19–01SEP01–1/21

Front axle, removing the axle knee

1. Using special tool (A) JT05724, safely support tractor at front axle and remove front wheel.

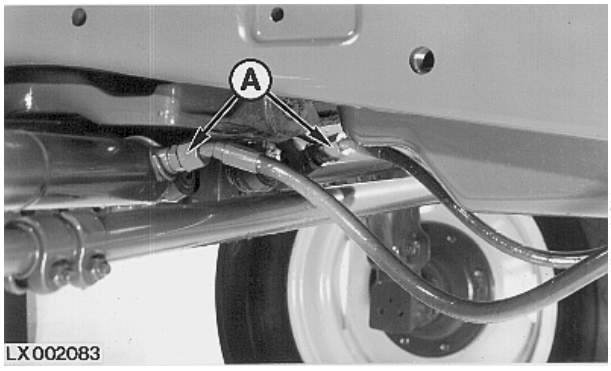


LX000812 –UN–15SEP94

LX25601,0000391 –19–01SEP01–2/21

2. Disconnect steering cylinder hydraulic lines (A) at the screw unions.

NOTE: Seal the hydraulic lines with plugs.



LX002083 –UN–08NOV94

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LX25601,0000391 –19–01SEP01–3/21

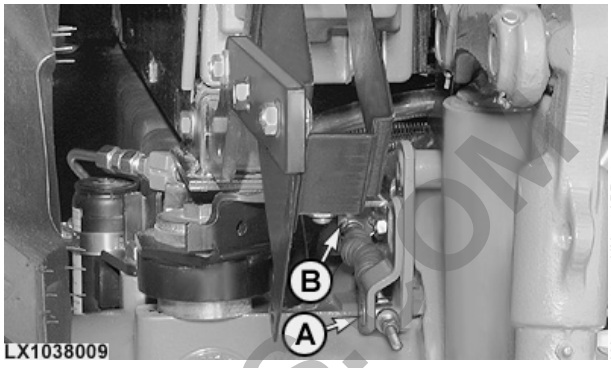
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7. **Not on tractors for North America:** Disengage the handbrake cable at lever (A) and at counter bearing (B).

NOTE: As the cab tilts, make sure that the bowden cable does not get caught.

A—Lever
B—Counter bearing

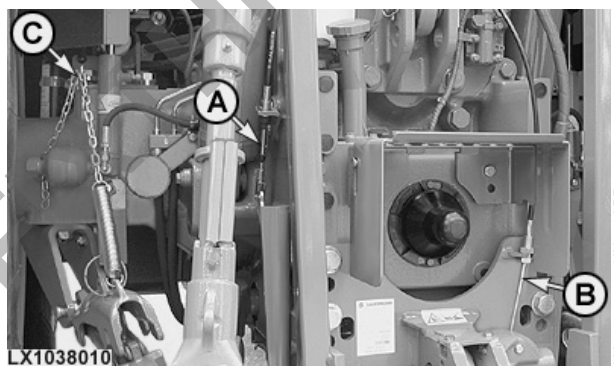


OULXBER,00011B4 –19–16JUL07–7/17

8. If equipped, disengage the PTO shift bowden cable (A) and the trailer hitch bowden cable (B) at the yoke and at the counter bearing. Unhook the stabilizer bar chain (B; if equipped).

NOTE: On tractors with height-adjustable trailer hitch, the actuating cable to unlatch the hitch pin must be disengaged (not shown in illustration).

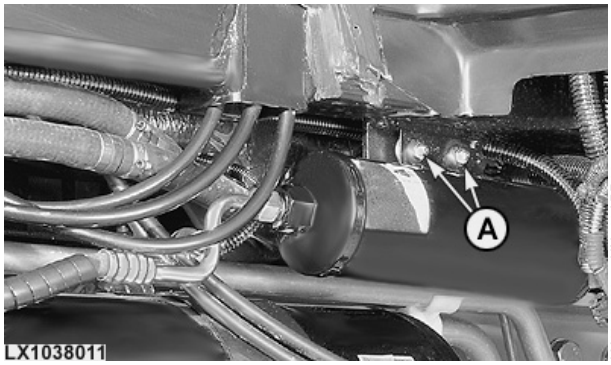
A—Bowden cable for PTO shifting
B—Bowden cable for trailer hitch
C—Chain of stabilizer bar



OULXBER,00011B4 –19–16JUL07–8/17

9. On tractors with air conditioning system, take out the two screws (A).

A—Cap screws

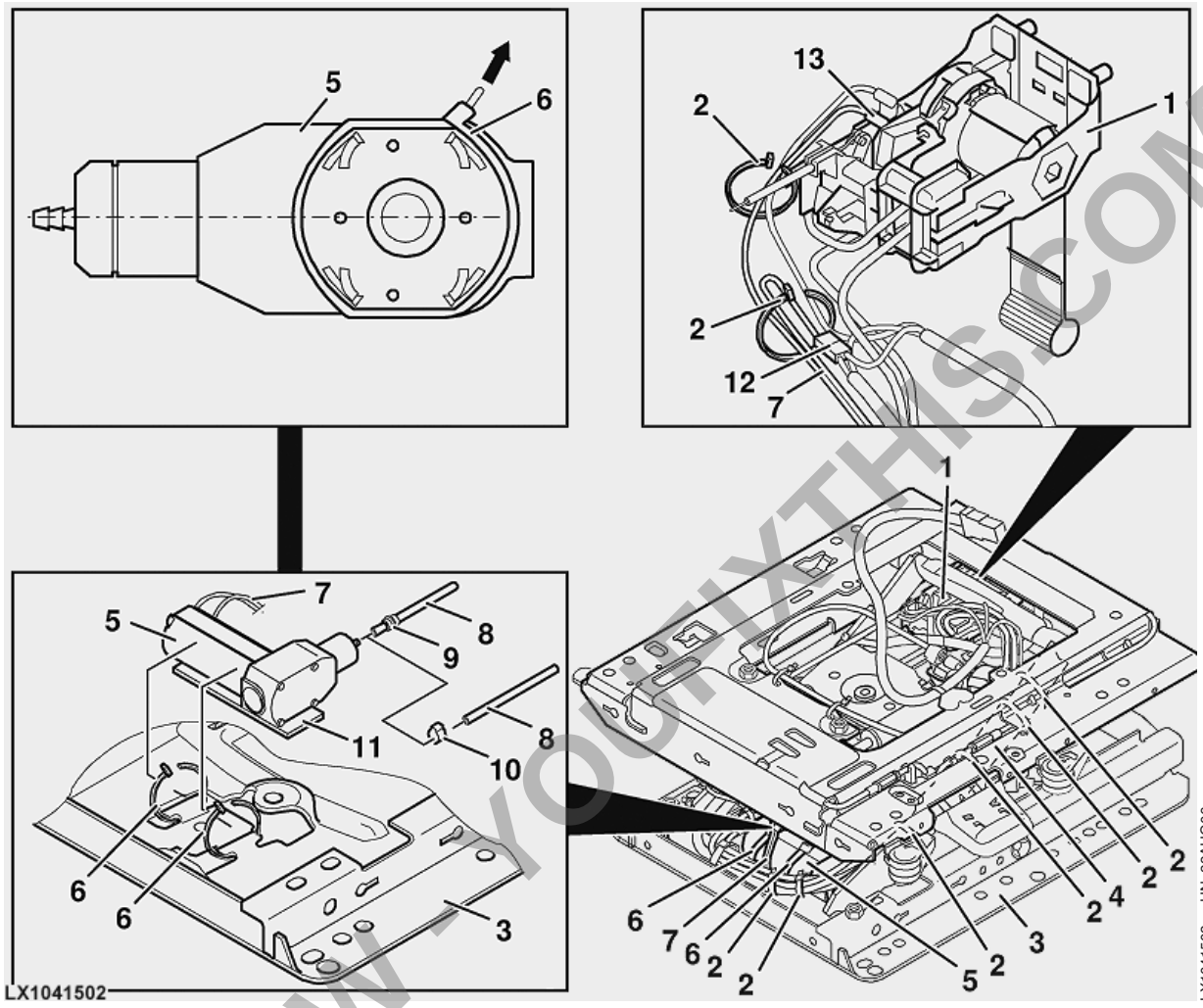


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OULXBER,00011B4 –19–16JUL07–9/17

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9. **Compressor (5) secured with cable straps (6):**

   Mark the locations where the compressor (5) is secured by means of the two cable straps (6) and remove cable straps (6).

NOTE: Feed cable straps (6) through the cut-outs provided in the lower section of the spring assembly (3) so that the ends of the cable straps (6) are pointing to the front. Close cable straps (6) loosely with the ends of the cable straps (6) on top, slightly above the front curve of the compressor (5) housing. Leave the cable straps slack enough to allow the compressor (5) some freedom of movement. Align compressor (5) and tighten the ends of the cable straps (6) in the direction indicated by the arrow to the following torque using special tool KJD10530.

Specification

Cable strap to compressor—	
Torque	360 N•m
	266 lb-ft

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