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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

TM4516-19-15MAR96

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SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.



T81389 -UN-07DEC88

LX,CRA05 002884-19-09APR92

"IMPORTANT" - INFORMATION

Information marked as IMPORTANT points out problems that may lead to machine damage. By following the directions given, these problems can be avoided.

LX,CRA05 002885-19-09APR92

"NOTE" - INFORMATION

When marked with NOTE the information given is more detailled or contains restrictions to directions given previously. On the other hand useful information may be given belonging to certain instructions without being directly connected to them.

LX,CRA05 002886-19-09APR92

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SPECIFICATIONS

Engine

	6800	6900
Type	6068TL001 turbocharged	6068TL002 turbocharged
Engine power at rated speed according to ECE-R24 with viscous fan	88 kW (120 hp)	96 kW (130 hp)
Maximum torque at an engine speed of	536 N·m (395 lb-ft) 1300 rpm	595 N·m (439 lb-ft) 1300 rpm
Number of cylinders	6	6
Bore	106.5 mm (4.19 in.)	106.5 mm (4.19 in.)
Stroke	127.0 mm (5.0 in.)	127.0 mm (5.0 in.)
Displacement	6790 cm^3 (414 in^3)	6790 cm^3 (414 in^3)
Firing order	1 5 3 6 2 4	1 5 3 6 2 4
Valve clearance, intake valves	0.35 mm (0.014 in.)	0.35 mm (0.014 in.)
Valve clearance, exhaust valves	0.45 mm (0.018 in.)	0.45 mm (0.018 in.)
Slow idle	800 rpm - 900 rpm	800 rpm - 900 rpm
Fast idle	2250 rpm - 2300 rpm	2250 rpm - 2300 rpm
Rated engine speed	2100 rpm	2100 rpm
Working speed range	1300 rpm - 2100 rpm	1300 rpm - 2100 rpm
Max. PTO power at rated PTO speed (factory-measured, 1000 rpm PTO)	79 kW (107 hp)	85 kW (116 hp)
Engine speed for PTO operation		
- 540E rpm rear PTO	1754 rpm	1754 rpm
- 1000 rpm rear PTO	2000 rpm	2000 rpm
- 1000 rpm front PTO (6 splines)	2033 rpm	2033 rpm
- 1000 rpm front PTO (21 splines)	2154 rpm	2154 rpm

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Capacities

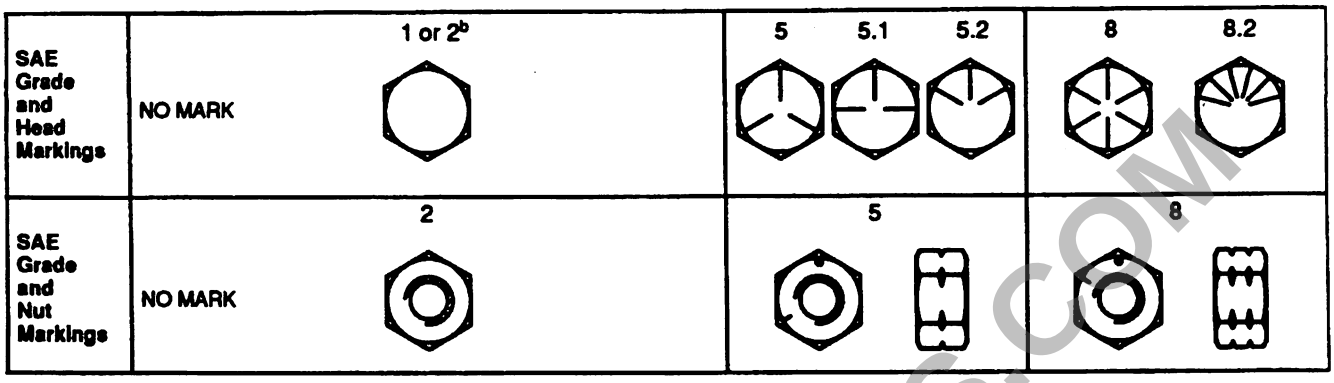
	6800	6900
Fuel tank	207 L (54.6 US.gal.)	207 L (54.6 US.gal.)
		250 L (66.0 US.gal.)
Cooling system -initial filling	19.5 L (5.1 US.gal.)	19.5 L (5.1 US.gal.)
-changing coolant	15.5 L (4.1 US.gal.)	15.5 L (4.1 US.gal.)
Engine crankcase -oil change with filter	17.0 L (4.5 US.gal.)	17.0 L (4.5 US.gal.)
Transmission/hydraulic system -initial filling	75.0 L (19.8 US.gal.)	75.0 L (19.8 US.gal.)
-oil change with filter	56.0 L (14.8 US.gal.)	56.0 L (14.8 US.gal.)
Front wheel drive, front axle housing	6.6 L (1.7 US.gal.)	6.7 L (1.8 US.gal.)
Front wheel drive, final drive housing - each	0.8 L (0.2 US.gal.)	2.2 L (0.6 US.gal.)
Air conditioning system (R134a refrigerant)	1.3 kg (2.86 lb)	1.3 kg (2.86 lb)

LX,10,5 004187-19-01AUG95

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UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES



10 05 15

-19-04MAR91

TS1162

Size	Grade 1				Grade 2[b]				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]	
	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
1/4	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5	9.5	7	12	9	13.5	10	17	12.5
5/16	7.7	5.5	10	7	12	9	15	11	20	15	25	18	28	21	35	26
3/8	14	10	17	13	22	16	27	20	35	26	44	33	50	36	63	46
7/16	22	16	28	20	35	26	44	32	55	41	70	52	80	58	100	75
1/2	33	25	42	31	53	39	67	50	85	63	110	80	120	90	150	115
9/16	48	36	60	45	75	56	95	70	125	90	155	115	175	130	225	160
5/8	67	50	85	62	105	78	135	100	170	125	215	160	240	175	300	225
3/4	120	87	150	110	190	140	240	175	300	225	375	280	425	310	550	400
7/8	190	140	240	175	190	140	240	175	490	360	625	450	700	500	875	650
1	290	210	360	270	290	210	360	270	725	540	925	675	1050	750	1300	975
1-1/8	400	300	510	375	400	300	510	375	900	675	1150	850	1450	1075	1850	1350
1-1/4	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	1000	725	1250	925	990	725	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

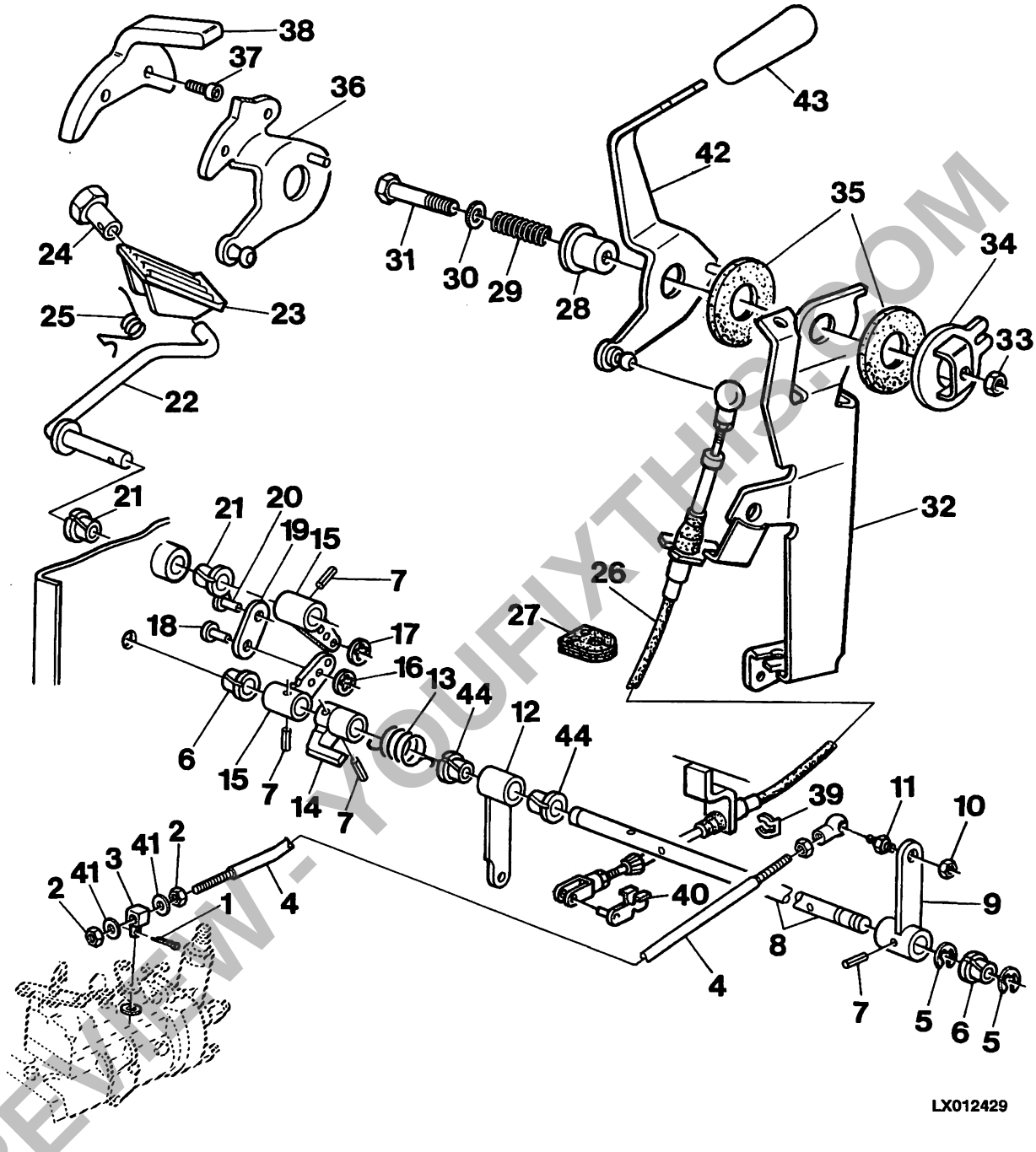
Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

[a] "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

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

DX,TORQ1 -19-20JUL94

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1—Cotter pin
2—Hex. nut
3—Swivel joint
4—Speed control rod
5—Snap ring
6—Bushing
7—Spring pin
8—Shaft
9—Lever
10—Hex. nut
11—Ball pin
12—Lever
13—Return spring
14—Lever
15—Lever
16—Retainer
17—Retainer
18—Pin
19—Strap
20—Pin
21—Bushing
22—Pedal rod
23—Pedal plate
24—Bushing
25—Spring
26—Cable
27—Rubber sealing
28—Bushing
29—Spring
30—Washer
31—Cap screw
32—Bracket
33—Hex. nut
34—Friction plate
35—Lining
36—Lever[1]
37—Hex. socket screw (2 used)[1]
38—Hand throttle[1]
39—Snap ring
40—Lever
41—Washer
42—Lever
43—Handle
44—Bushing[2]

[1] on earlier tractors [2] from tractor serial no. 155939

LX,REAC 004093-19-01AUG95

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BLEEDING FUEL SYSTEM

NOTE: Before bleeding check system for leaks.

1. Move gear shift lever or reverse drive lever out of neutral position to prevent engine from starting.

2. Turn ignition key fully to the right (start position) for approx. 20 seconds to operate fuel transfer pump.

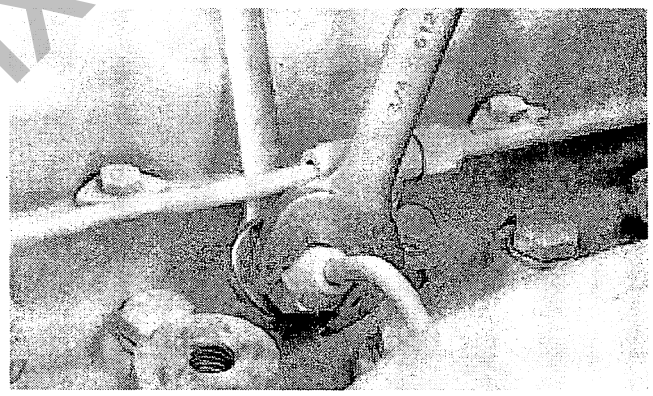
3. Move gear shift lever or reverse drive lever in neutral position.

4. Start engine (it must be starting after 9 seconds max.).

LX,REAG 000724-19-02FEB93

30 10 3

If fuel injection nozzles or lines have been replaced in the area behind fuel injection pump, bleed fuel system as described previously. If engine will not start, proceed as follows:


T92924 -UN-01NOV88

1. Loosen lines at injection nozzles.

2. Place throttle lever in full load position.

3. Start engine until fuel flows free from bubbles out of loosened fuel nozzle connections.

4. Retighten connections.

CAUTION: Escaping fuel under pressure can have sufficient force to penetrate the skin causing serious personal injury. If injured by escaping fuel see a doctor immediately as otherwise serious infections may be the result.

LX,REAG 000727-19-01FEB93

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VISUAL AND OPERATIONAL CHECKS

NOTE: Adjustments on the air brake system must be performed by trained and qualified personnel only.

IMPORTANT: If the tractor brakes are not in full working order, the air brake will also not function normally.

Check the entire system for signs of damage, abrasion, corrosion, fractures, loose joints and leaks.

LX,RRII 003657-19-01FEB93

LEAK TEST

1. Connect pressure test kit KJD10194 to test/filler connection.

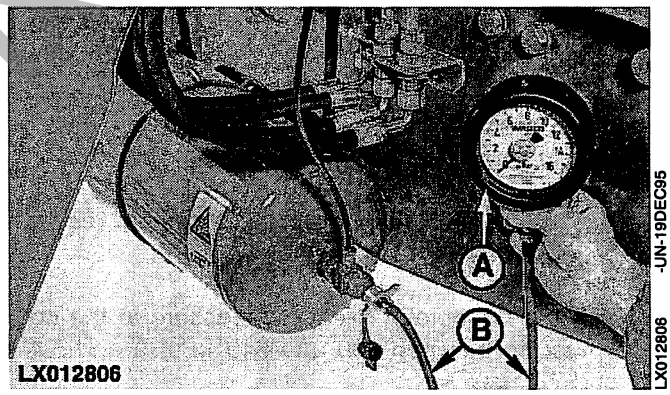
2. Run engine at a speed of 1200 rpm until the pressure-limiting valve is activated, which happens at a pressure of

790 to 830 kPa (7.9 to 8.3 bar; 115 to 120 psi)[1]

1400 to 1600 kPa (14 to 16 bar; 203 to 232 psi)[2]

3. Shut off engine.

4. Check all connections for leaks by applying soap. Pressure drop within a period of 10 minutes must not exceed 16 kPa (0.16 bar; 2.3 psi).



A—KJD10194-1 pressure gauge
B—KJD10194-2 test hose

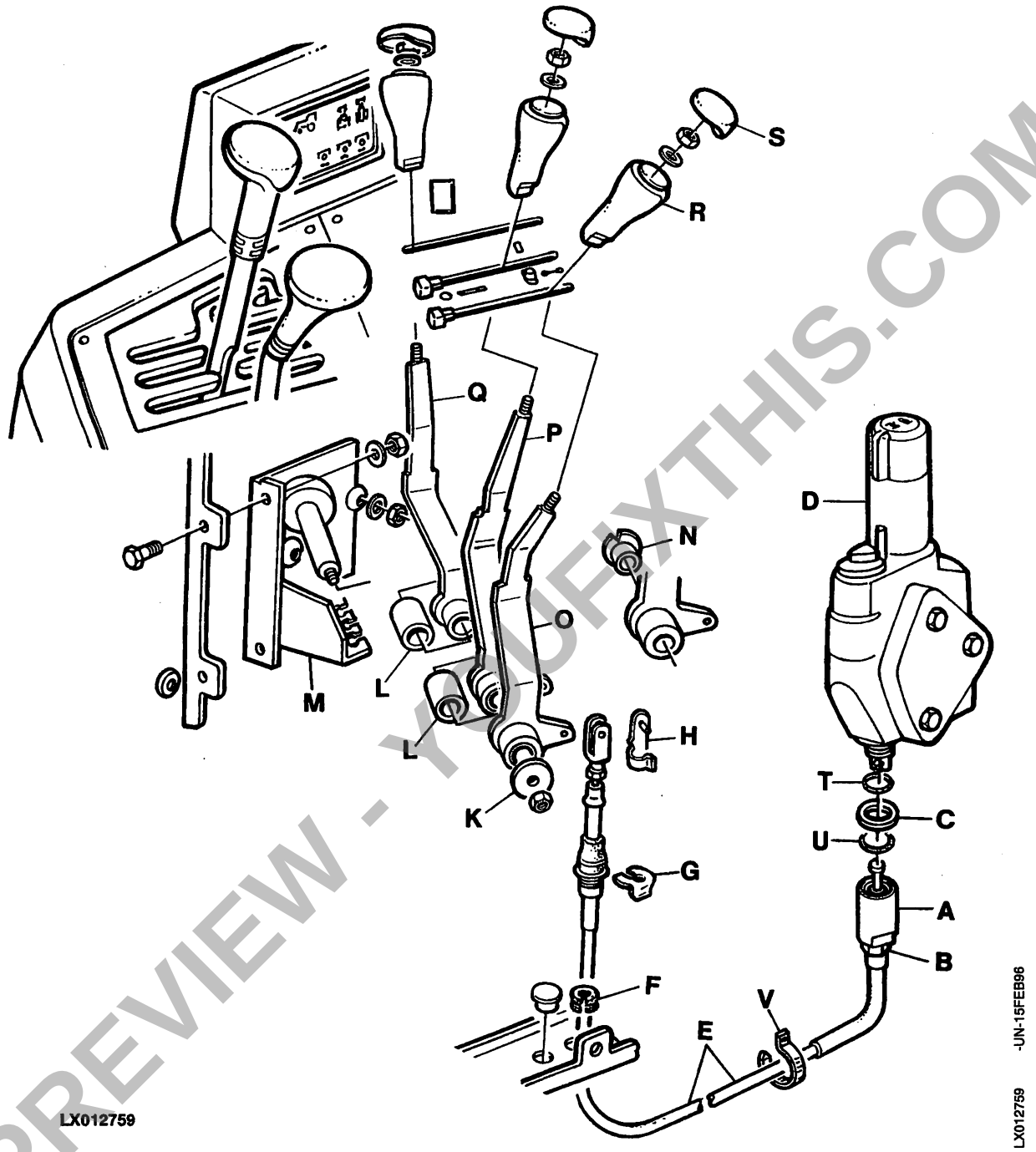
[1]800 kPa (8 bar; 116 psi) systems

[2]1600 kPa (16 bar; 232 psi) systems

LX,6030 009087-19-01AUG95

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SCV ACTUATING ELEMENTS



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2

A—Sleeve	F—Grommet	M—Console	R—Grip (3 used)
B—Lock nut	G—Clip	N—Rubber bushing (3 used)	S—Cap (3 used)
C—Spacer [1]	H—Retainer	O—Lever, 1st SCV	T—O-ring
D—Control valve	K—Washer	P—Lever, 2nd SCV	U—O-ring
E—Bowden cable	L—Bushing [1]	Q—Lever, 3rd SCV	V—Cable tie

[1] *If required*

LX,7005 009065-19-01AUG95

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PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet , and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



TS218 -UN-23AUG88

DX,SERV -19-03MAR93

USE PROPER TOOLS

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



TS779 -UN-08NOV89

DX,REPAIR -19-04JUN90

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SPECIAL OR ESSENTIAL TOOLS

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

DX,TOOLS -19-20JUL95

Load positioning slings D01042AA

Engine removal and installation

This tool permits the adjustment of the angle of the load being handled.



D01042AA

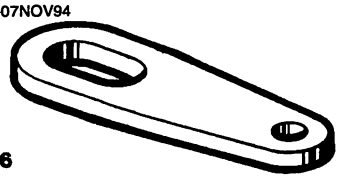
D01042AA -UN-14NOV95

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Lifting eye JD244-1

Removal and installation of tractor components

LX002476 -UN-07NOV94



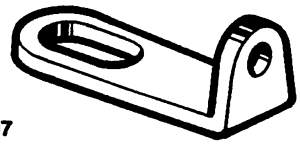
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Lifting eye JD244-2

Removal and installation of tractor components

LX002297 -UN-07NOV94



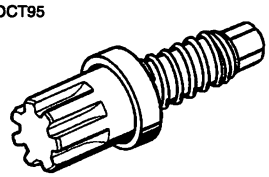
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Flywheel turning tool JDG820

Turning flywheel on 6-cylinder engines

JDG820 -UN-30OCT95

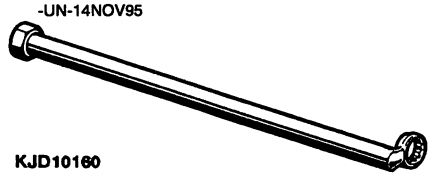


LX,20,00 004698-19-01AUG95

Special wrench KJD10160

Starting motor removal and installation

KJD10160 -UN-14NOV95



KJD10160

LX,20,00 004542-19-01AUG95

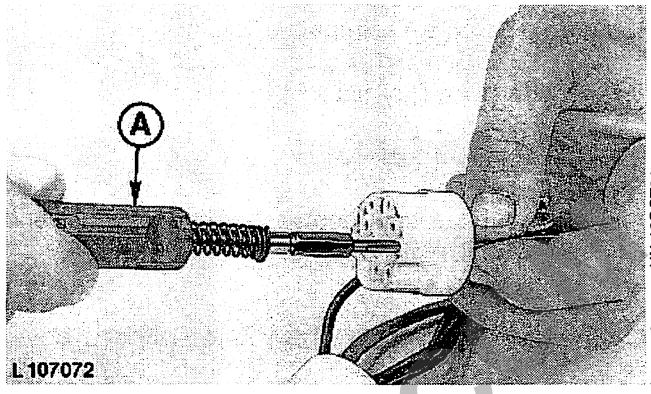
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CPC CONNECTOR[1]

Removing Male or Female Terminal

A—KML10019-4 or KML10019-3[2]



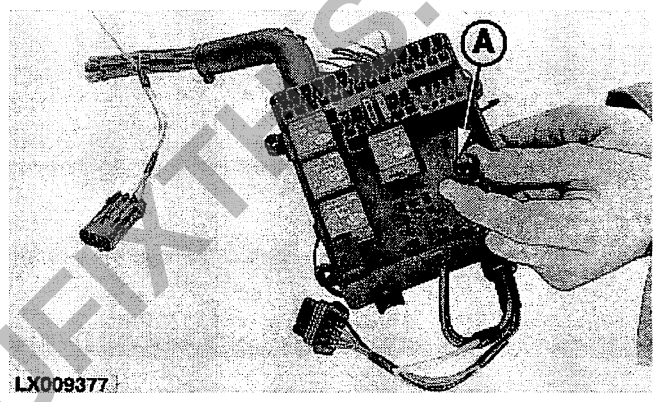
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[1] CPC is a trade name of the AMP company ·

[2] Part of tool kit FKM10461

REPLACE LOAD CENTER CONNECTOR

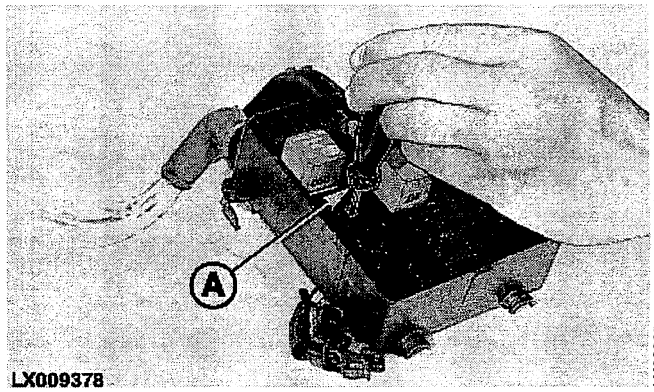
Insert FKM10458 [1] (A) Extraction Tool over female terminal in load center and pull out terminal.



LX,4005 007179-19-01AUG95

[1] Part of tool kit FKM10461

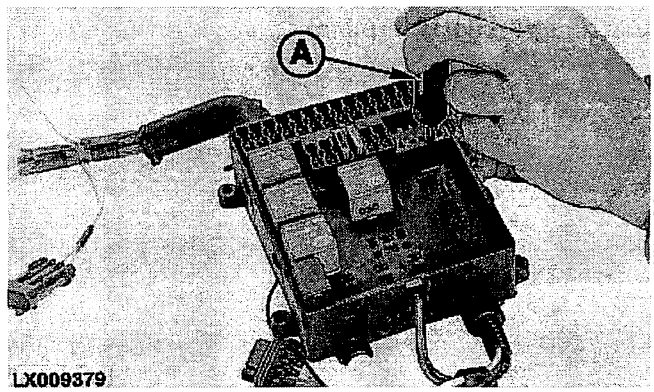
Use FKM10460 [1] (A) Extraction Tool to pull out terminal.



LX,4005 007180-19-01AUG95

[1] Part of tool kit FKM10461

A—FKM10457 [1] Extraction Tool



LX,4005 007181-19-01AUG95

[1] Part of tool kit FKM10461

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POWRQUAD TRANSMISSION

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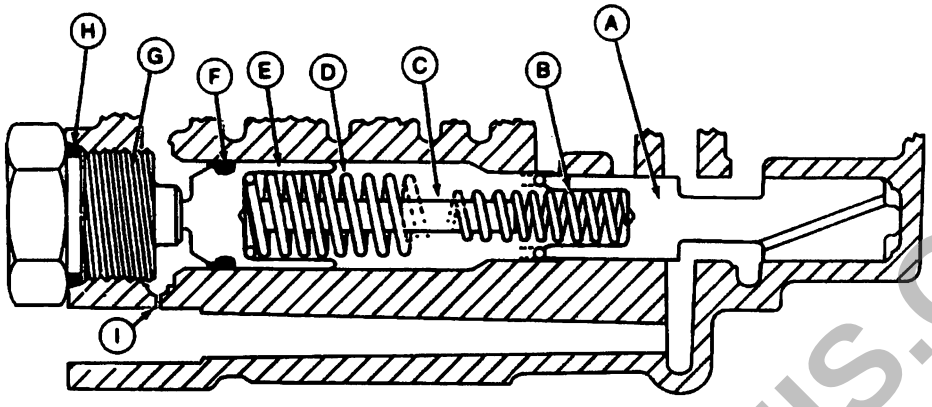
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MODULATOR VALVE—CROSS-SECTIONAL VIEW



A—Modulator Valve
B—Inner Spring
C—Modulator Valve Pin
D—Outer Spring
E—Shift Modulator Accumulator Piston
F—Piston Seal
G—Valve Bore Plug
H—O-Ring
I—Charging *Orifice*

Remove modulator valve bore plug (G) with O-ring (H).

Remove piston (E) with seal (F).

Install seal (F) on piston (E) so the lip faces the closed end of the piston.

55
10
24

Remove two springs (D) and (B) and pin (C). Remove modulator valve (A) for inspection.

Make sure charging orifice (I) is not plugged.

NEW SPRING SPECIFICATION

Inner Spring
Free Length . . . . . 111 mm (4.4 in.) (approximate)
Test Length . . . . . 89 mm at 30—36 N (3.5 in. at 7—8 lb force)

Outer Spring
Free Length . . . . . 70 mm (2.8 in.) (approximate)
Test Length . . . . . 43.5 mm at 105—129 N (1.7 in. at 24—29 lb force)

Replace parts as necessary and install in valve bore.

Tighten valve bore plug to 44 N·m (32 lb-ft).

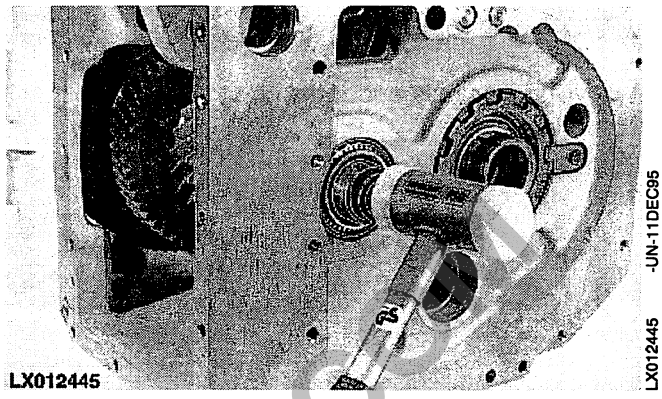
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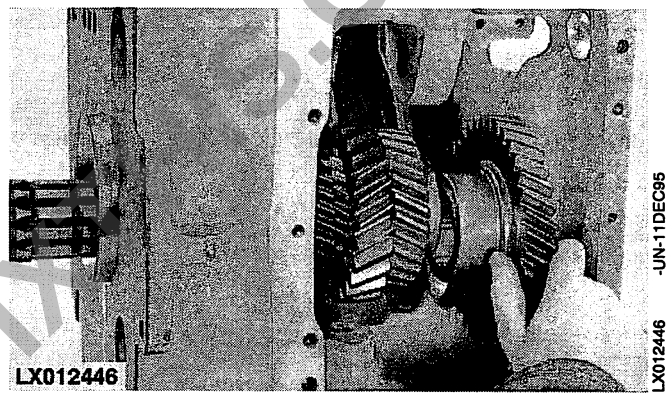
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Lightly strike the end of main shaft with a plastic hammer until bearing cone can be removed.

Pull out main shaft carefully and remove parts from shaft.





LX,5520 008851-19-01AUG95

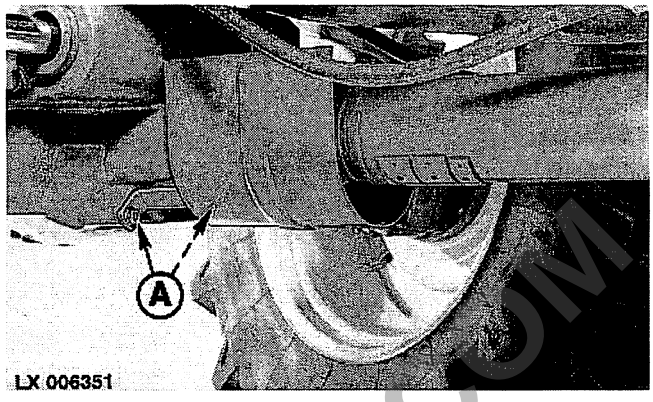
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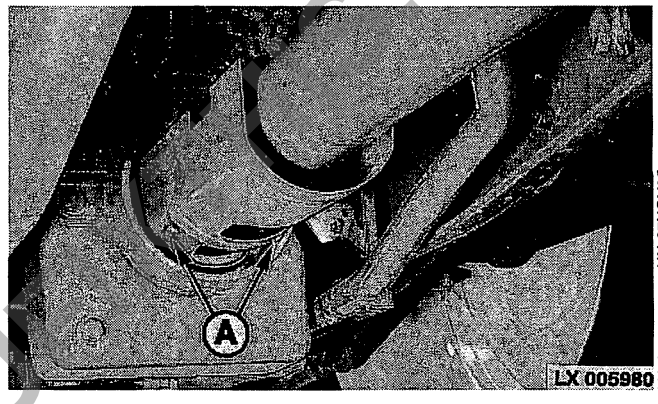
REMOVING U.J. SHAFT (FWD)

Remove the two cap screws (A) from the front anti-wrap guard.



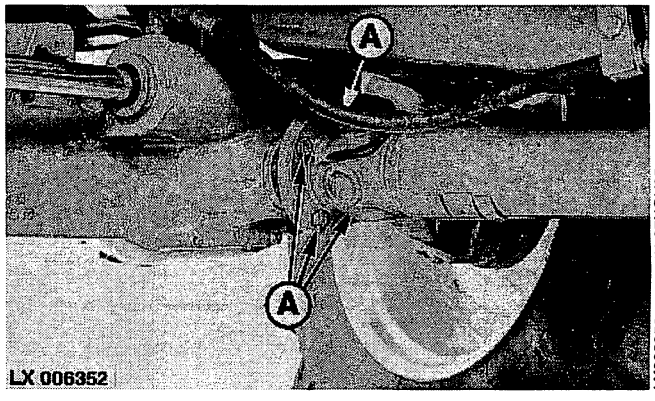
LX,56,05 004591-19-01MAR93

Take out the two cap screws (A) and remove the rear anti-wrap guard.



LX,56,00 004402-19-01MAR93

Remove the four cap screws (A) from the flange. Pull the u.j. shaft off the clutch shaft.



LX,56,05 004592-19-01MAR93

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REPAIR INSTRUCTIONS

- Before assembly, coat all components in hydraulic oil.
- When assembling, coat needle bearings, thrust washers and sealing rings in a thin film of grease.
- Never clean the clutch plates in cleaning agent. Before assembling new clutch plates, soak them for 15 minutes in hydraulic oil.
- Never heat bearing cones to temperatures higher than 150°C (300°F).

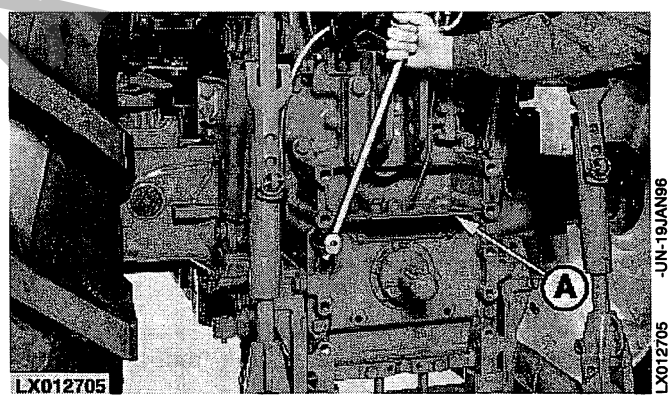
LX,5630 004833-19-01MAR93

REPAIR PTO

Remove PTO.

Remove the PTO master-shield (A).

Take the snap ring off the PTO output shaft. Pull out the output shaft.



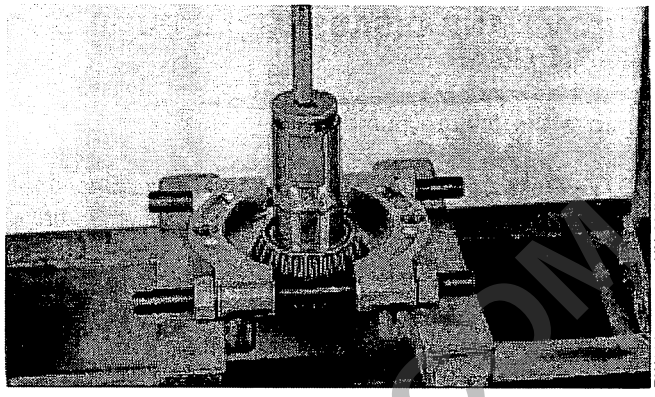
LX45165635;2 -19-01AUG95

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Remove the bearing spacer ring. Install a knife-edge puller under the lower bearing and remove the shaft from the bearing using a press with a 1-3/4 in. disk.

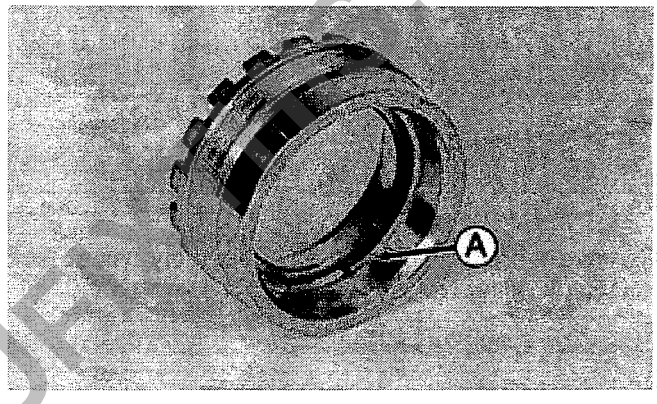


RX15005640,8 -19-29JUL92

NOTE: The bearing cups are a loose fit in the sleeve.

Remove the bearing cups from the sleeve.

Remove the bearing cup spacer snap ring (A).



RX15005640,9 -19-29JUL92

REMOVE AND DISASSEMBLE PUMP DRIVE GEAR

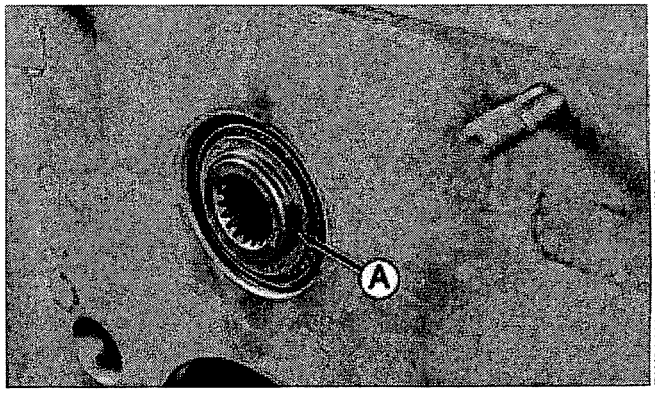
NOTE: Refer to Pump Drive Gears—Cross-Sectional View during removal, disassembly, assembly, and installation.

Remove the differential.

Remove the pump drive pinion gear. (See Remove and Disassemble Pump Drive Pinion Gear, this group.)

Remove the snap ring (A) from the drive gear shaft.

Remove the drive gear from the differential case and front bearing using a 1-3/4 in. driver disk, 1 in. pilot disk, and handle.

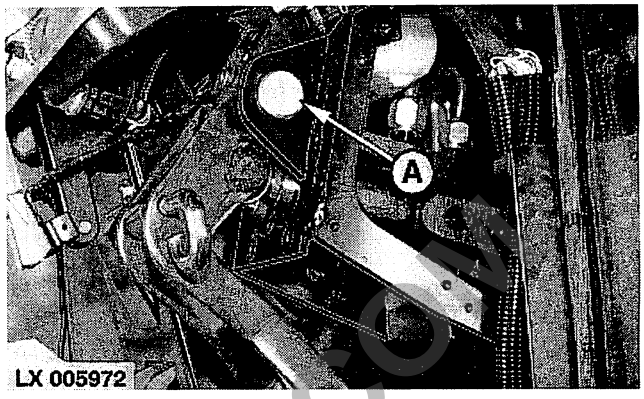


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Remove pin (A).

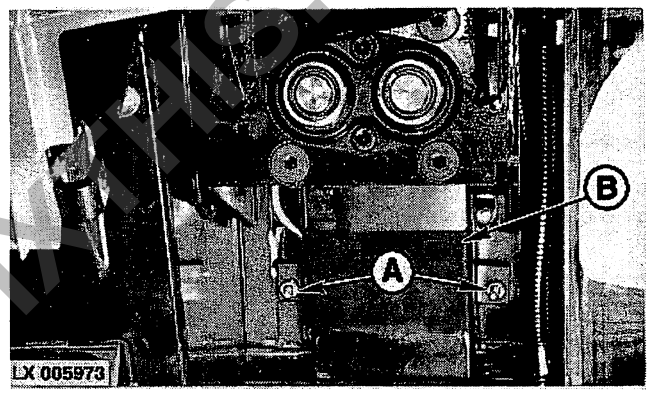
Take out the brake pedals.



LX,6015 004393-19-01MAR93

Remove nuts (A).

Take off plate (B).

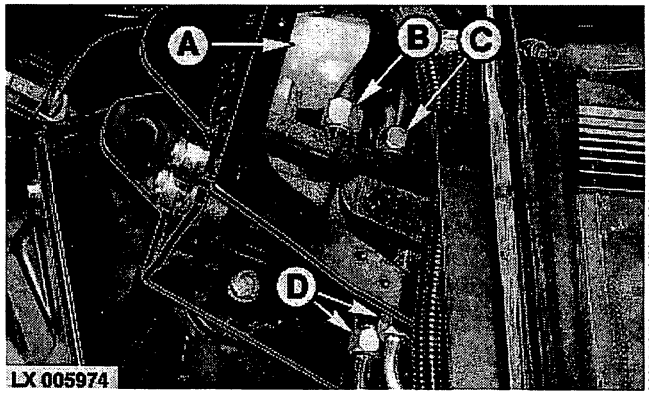


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Up to tractor serial no. 135839:

Disconnect hydraulic lines (B, C and D) from brake valve.

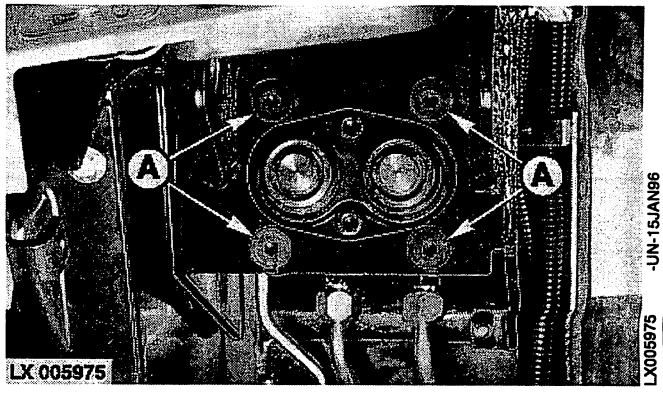
NOTE: Oil reservoir (A) is located on the brake valve.



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Take off hex. socket screws (A).

Remove brake valve from below.



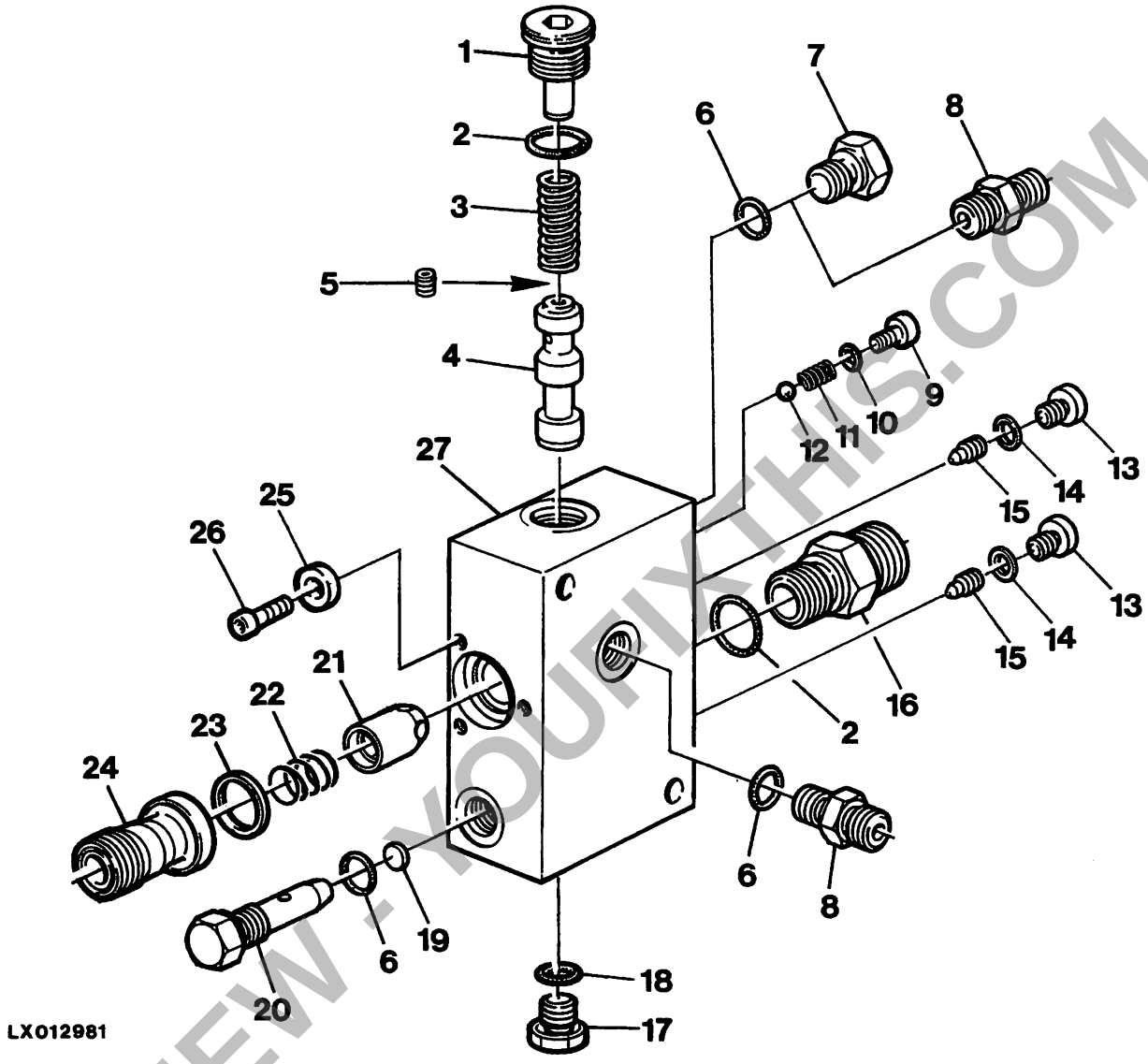
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POWER BEYOND APPLICATION VALVE — EXPLODED VIEW (NEW VERSION)



1—Stopper
2—O-ring
3—Spring
4—Valve spool
5—Threaded pin[1]
6—O-ring
7—Stopper[2]
8—Fitting
8a—Fitting[1]
9—Stopper
10—Seal ring
11—Spring
12—Ball
13—Stopper
14—O-ring
15—Set screw
16—Fitting
17—Stopper
18—O-ring
19—Valve plate[2]
20—Special stopper
21—Valve body
22—Spring
23—Ring
24—Fitting
25—Ring (3 used)
26—Hex. socket screw (3 used)
27—Housing

[1] *"Open-center" system only*

[2] *"Closed-center" system only*

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Changing the Special Seal

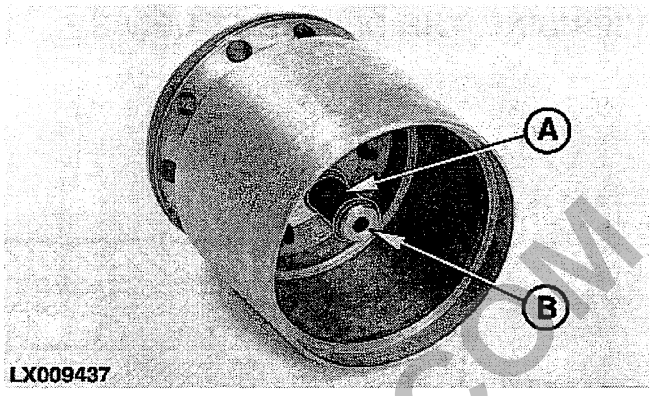
Use a sharp blade to cut the old special seal (A). Cut in the axial direction (length-wise). Do not damage stamp (B).

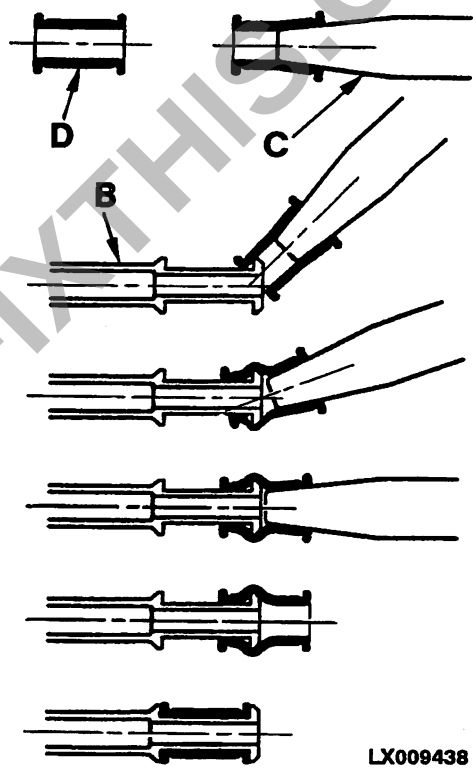
Pull seal (D) onto a suitable spigot (C) until it is half on (a ballpoint pen without its cartridge may be used).

Place it at an angle of approx. 45° and press the seal over the shoulder of stamp (B) (see illustrations).

Wait a short time until the seal has contracted before continuing with the assembly.

Assemble the coupler in revese order. Install the coupler. Check that coupler operates correctly and does not leak.





LX,7030 007234-19-01JUN94

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OPERATOR'S CAB AND 4-POST ROPS

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FILLING WITH REFRIGERANT OIL

CAUTION: To prevent the risk of injury, always wear protective goggles and gloves when working on the air conditioning system.

Connect dual gauge set FKM10445 (C) as described in "Evacuating the System".

Evacuate the system as described in "Evacuating the System".

Close the valves and disconnect the pump.

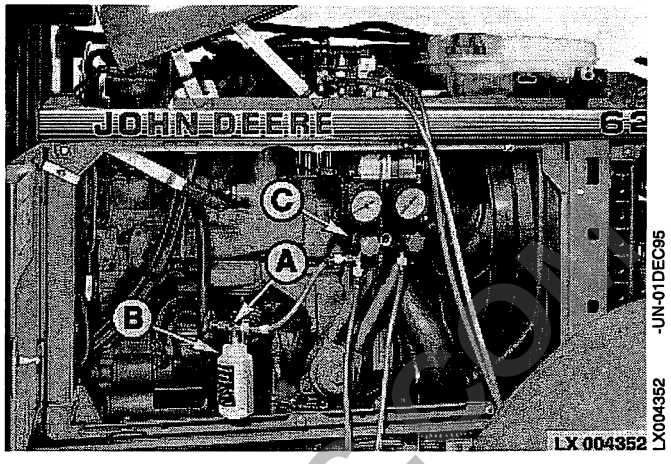
Read how much oil is extracted during the evacuation process at the sight-glass in the oil separator. Add the same amount of new oil plus 10 ml to the oil injector.

IMPORTANT: Refrigerant oil is extremely hygroscopic — this means it attracts moisture in large amounts from the atmosphere. For this reason, do not open the system and oil can any longer than necessary.

Connect refrigerant oil injector FKM10436 (B) to the low-side of pressure gauge.

Open charging valve (A) of oil injector. Open low-side valve.

NOTE: The vacuum within the system will draw oil into the system.



A—Charging valve
B—Refrigerant oil injector FKM10436
C—Dual gauge set FKM10445

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