SUMMARY OF MOST IMPORTANT SPECIFICATIONS FOR 2250, 2450, 2650, 2650N and 2850 TRACTORS

NOTE: For further specifications, see relevant Technical Manual.

ENGINE

Valve clearance
(engine hot or cold):
- Intake valves ..... 0.35 mm (0.014 in.)
- Exhaust valves ..... 0.45 mm (0.018 in.)

Minimum engine oil pressure

Minimum opening pressure with used nozzle
- *Engine without turbocharger* ..... 20700 kPa (207 bar; 3000 psi)
- *Engine with turbocharger* ..... 24100 kPa (241 bar; 3500 psi)

Maximum difference in opening pressure ..... 700 kPa (7 bar; 100 psi)

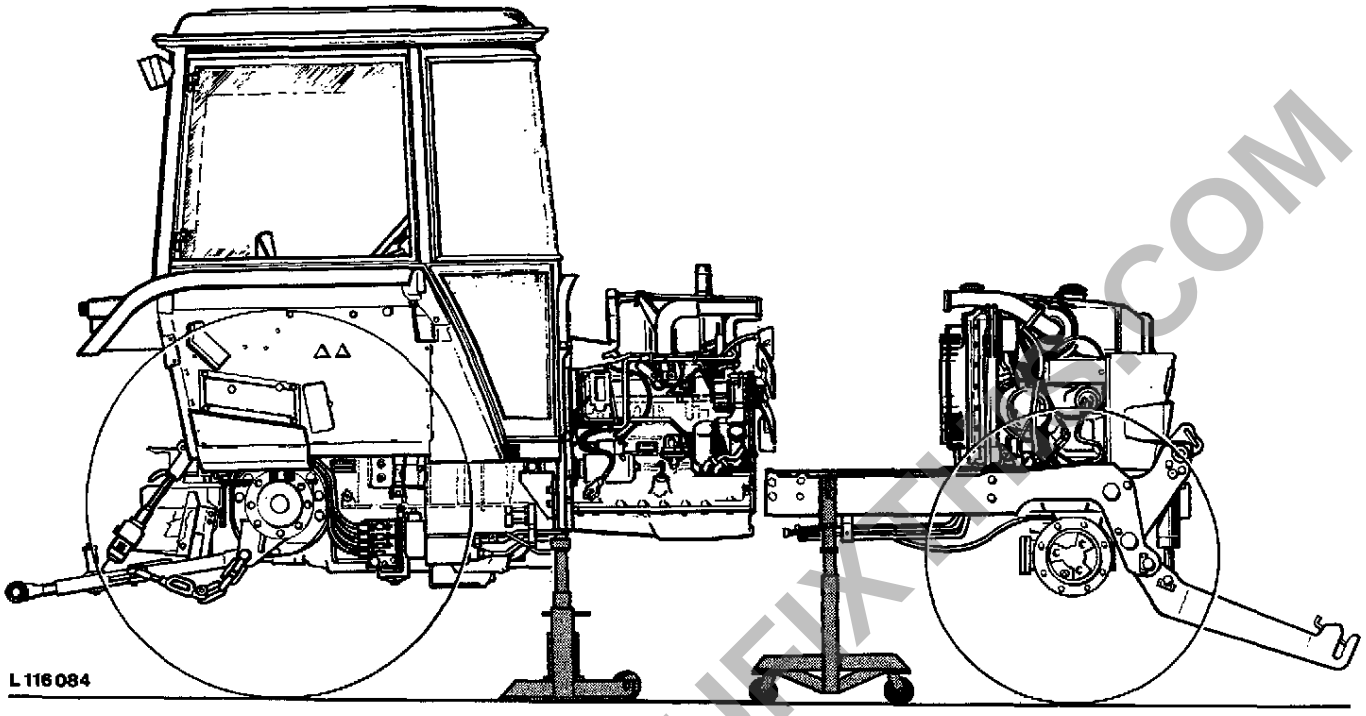
Fuel injection nozzle to

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REMOVING TRACTOR FRONT END



L116084-LB31025AE-010287

DISCONNECTING BATTERY GROUND STRAPS

On tractors with SG2 cab or MC1 cab and side frames, remove batteries.

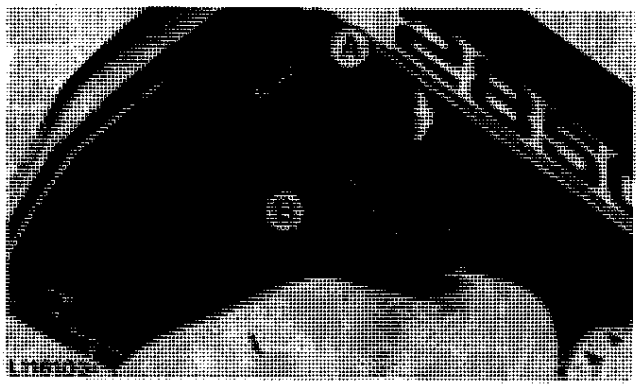


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REMOVING ENGINE HOOD

Remove exhaust pipe and air precleaner, when equipped. Remove radiator side plates and grille screens.

Swing hood upward from the front. Remove quick-lock pin (A) at gas pressure cylinder (B).



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STANDARD TORQUES FOR HARDWARE

Recommended torques in Nm and ft-lb for hose and pipeline connections

Ⓐ	Ⓑ		Ⓒ	
	Nm	ft-lb	Nm	ft-lb

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SAFETY AND YOU

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



T 81389

T81389;053;TMSAFE 19 07OCT85

IMPORTANT

The IMPORTANT message identifies potential problems which may cause consequential damage to machine. Following recommended procedure will instruct technician how to avoid problem.

A68;N01;0000 19 U 05NOV82

NOTES

The word NOTE is followed by a statement that identifies a qualification or exception to a previous statement. A "NOTE" may also identify nice-to-know information pertinent to, but not directly related to previous statement.

A68; N01;0000 19 V 05NOV82

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SUMMARY OF MOST IMPORTANT SPECIFICATIONS FOR 2250, 2450, 2650, 2650N and 2850 TRACTORS

SYNCHRONIZED TRANSMISSION

Differential Drive Shaft

Rolling drag torque with
- New bearings ..... 0.75 to 1.5 Nm (6.5 to 13 in-lb)
- Used bearings ..... 0.4 to 0.75 Nm (3.5 to 6.5 in-lb)

Special hex. nut or special nut of differential drive shaft ..... 140 Nm (100 ft-lb)

Range Shaft

TRANSMISSION OIL PUMP

Minimum delivery of transmission oil pump at 2000 rpm:

Oil temperature 40°C (100°F)
- *2250 and 2450 without Hi-Lo* ..... 34 liters/min. (9 gpm)
- *2250 to 2850 with Hi-Lo and 2650 to 2850*

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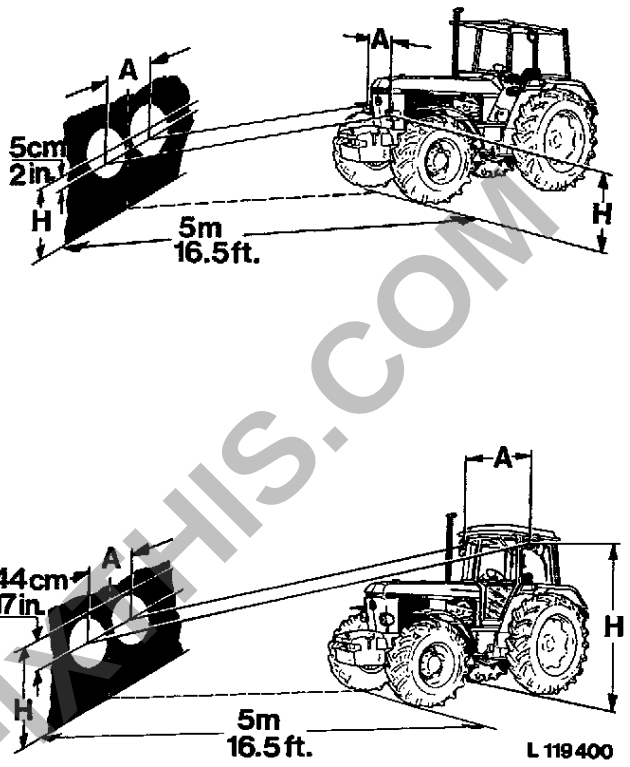
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CHECKING LIGHTING SYSTEM

See Operator's Manual.

Check adjustment of headlights and adjust, when necessary.

When equipped, check adjustment of roof headlights and adjust, when necessary.

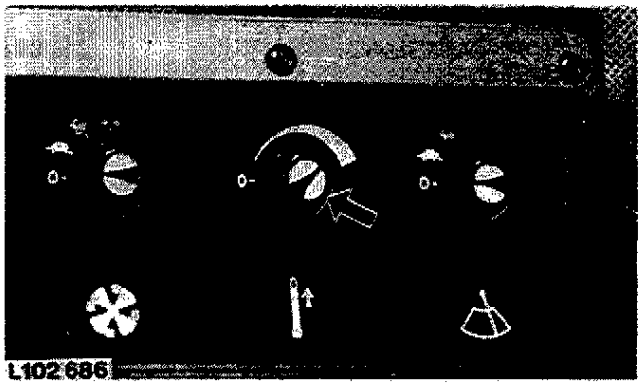


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CHECKING HEATER CONTROL SWITCH

Tractors With SG2 Cab

With engine running at operating temperature, turn control switch to the right and wait until warm air enters cab through the air louvers.



Tractors With MC1 Cab

With engine running at operating temperature, turn control switch to the right and wait until warm air enters cab through the air louvers.



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SPECIFICATIONS

CAPACITIES AND SERVICE INTERVALS

Engine Crankcase:	
– Initial filling ..... 10.5 liters (2.8 U.S. gal.)	Check crankcase oil level every 10 hours
– Change crankcase oil and replace filter ..... 10.0 liters (2.6 U.S. gal.)	Oil change every 200 hours*
	Filter change every 200 hours*
Fuel filter	Check fuel filter every 10 hours
Fuel filter	Replace fuel filter every 500 hours
Cooling system ..... 13.0 liters (3.4 U.S. gal.)	Change coolant every two years
– With SG2 or MC1 cab (with heater) ..... 15.0 liters (4.0 U.S. gal.)	Change coolant every two years
Transmission/Hydraulic System (including oil reservoir and oil cooler):	
– Initial filling (synchronized transmission)	Check oil level every 50 hours
– Without FWD ..... 50.0 liters (13.2 U.S. gal.)	Change transmission filter every 500 hours**
– With FWD ..... 53.0 liters (14.0 U.S. gal.)	Change transmission oil every 1000 hours
– With front PTO ..... 55.0 liters (14.5 U.S. gal.)	Every 1000 hours clean hydraulic pump filter screen
– With hydrostatic creeper transmission an additional ..... 2.0 liters (0.53 U.S. gal.)	
– Oil change and replace filter	
– Without FWD ..... 47.5 liters (12.5 U.S. gal.)	Every 1000 hours replace hydrostatic steering oil filter
– With FWD ..... 50.5 liters (13.3 U.S. gal.)	
– With front PTO ..... 52.5 liters (13.90 U.S. gal.)	
– With hydrostatic creeper transmission an additional ..... 2.0 liters (0.53 U.S. gal.)	
– Initial filling (collar shift transmission)	
– 2250 and 2450 ..... 41.0 liters (10.8 U.S. gal.)	
– 2650 ..... 46.0 liters (12.2 U.S. gal.)	
– Oil change and replace filter	
– 2250 and 2450 ..... 33.0 liters (8.7 U.S. gal.)	
– 2650 ..... 38.0 liters (10.0 U.S. gal.)	
– With heavy-duty final drives an additional ..... 5.0 liters (1.3 U.S gal.)	
Front Wheel Drive	
Axle housing	
– 2250 to 2850 ..... 5.3 liters (1.4 U.S. gal.)	Check oil level every 100 hours
– 2650N ..... 3.25 liters (0.86 U.S. gal.)	
Wheel hub housing (each) ..... 0.75 liters (0.2 U.S. gal.)	Change oil every 1000 hours***
Clutch Operating System (Tractors with hydraulically operated clutch) ..... 250 cm³ (8.75 fl. oz.)	Change brake fluid every two years

* Replace crankcase filter element and change engine oil after first 100 and 200 hours of operation. Thereafter replace filter element and change engine oil after every 200 hours of operation.

** Replace transmission/hydraulic filter element after first 50 hours of operation, after first 500 and thereafter every 500 hours of operation.

*** On tractors with front wheel drive, first oil change after 100 hours of operation. Thereafter every 1000 hours of operation.

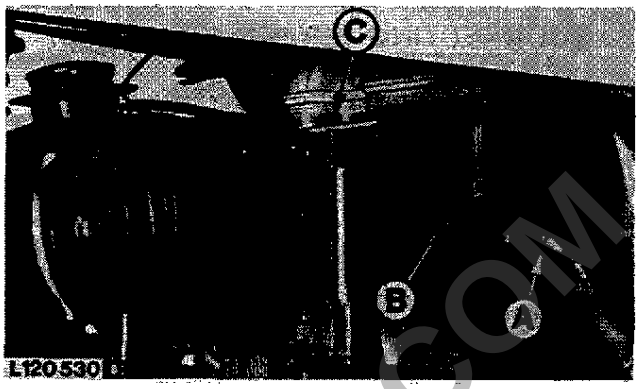
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REMOVING EXPANSION TANK (When Equipped)

Disconnect coolant hose (A) at expansion tank (B).

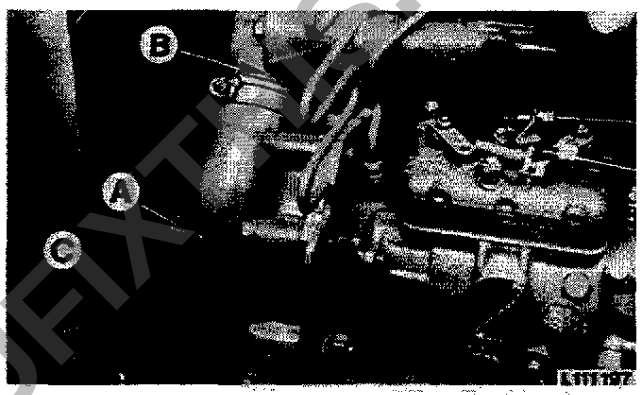
Remove the three attaching cap screws (C) and lift out expansion tank.



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DISCONNECTING BOTTOM RADIATOR COOLANT HOSE

Disconnect coolant hose (A) at water pump (B) and radiator (C).

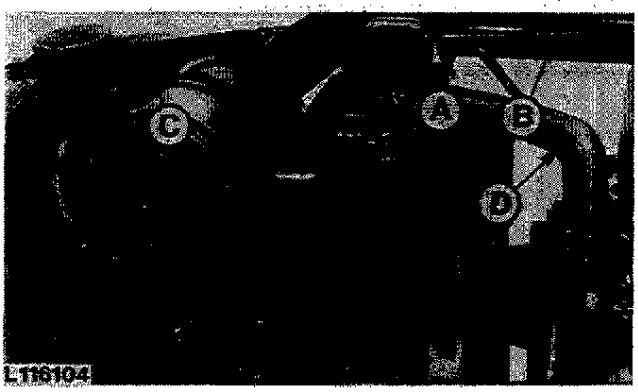


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DISCONNECTING TOP RADIATOR COOLANT HOSE

Disconnect hose (D) at radiator.
Remove cap screw (A) of radiator support stay (B).
Disconnect fuel return line (C) and breather line (when equipped) at connection to tank.

A–Cap screw
B–Support stay
C–Fuel return line
D–Hose

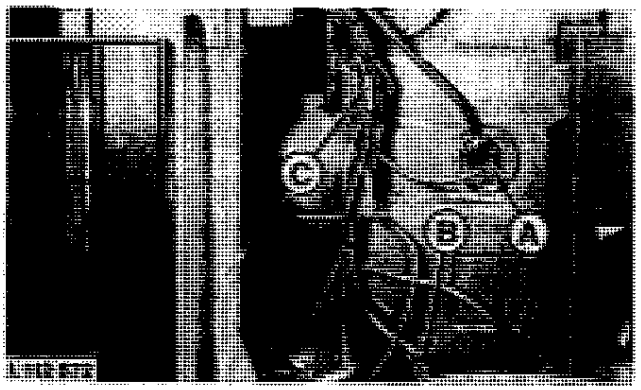


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DISCONNECTING WIRING HARNESS CONNECTORS

Disconnect cable (A) from fuel gauge sending unit.
Disconnect headlight cable distributor (B).
When equipped, disconnect cable to front PTO solenoid switch at connector (C).
Pull cables to the rear.

NOTE: Mark plugs and connectors for later reinstallation.



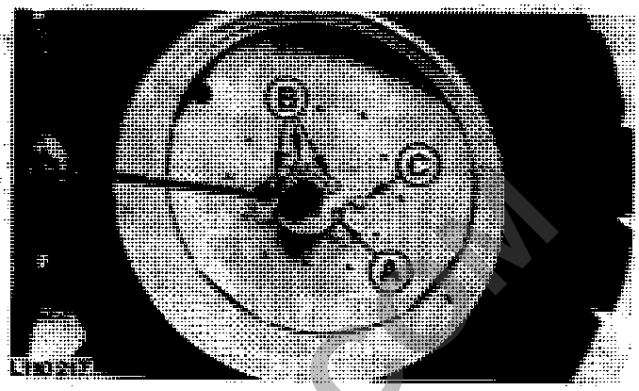
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TIGHTENING REAR WHEEL BOLTS (Tractors With Rack-and-Pinion Axle)

Adjust to desired tread width with adjustment bolt (A). Tighten cap screws (B and C) to 400 Nm (300 ft-lb).

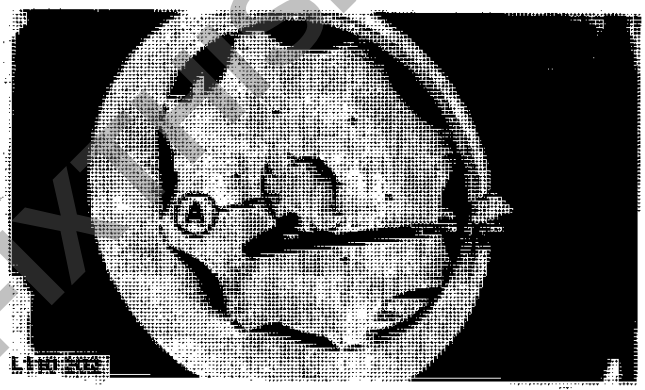
NOTE: Drive tractor approx. 50 m (160 ft.) and then tighten cap screws again to 400 Nm (300 ft-lb).



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TIGHTENING REAR WHEEL BOLTS (Tractors With Flanged Rear Axle)

Tighten cap screws (A) to 400 Nm (300 ft-lb).



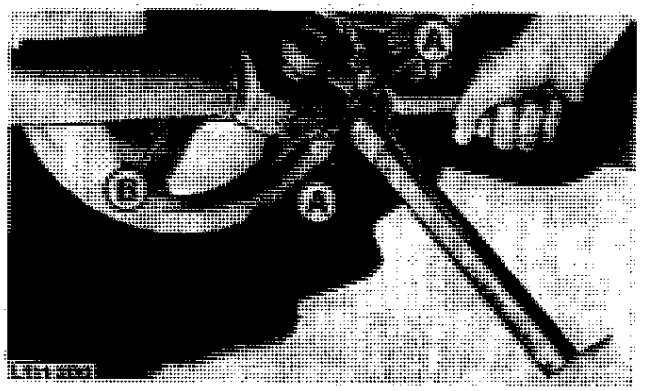
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INSTALLING U.J. DRIVE SHAFT (Tractors With Front Wheel Drive)

Tighten attaching nuts (A) to 75 Nm (55 ft-lb).

When equipped, reinstall drive shaft anti-wrap guard.

A–Attaching nuts
B–Universal-jointed drive shaft



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DISCONNECTING FRONT RIGHT-HAND CAB MOUNTING

Remove cap screw (A).



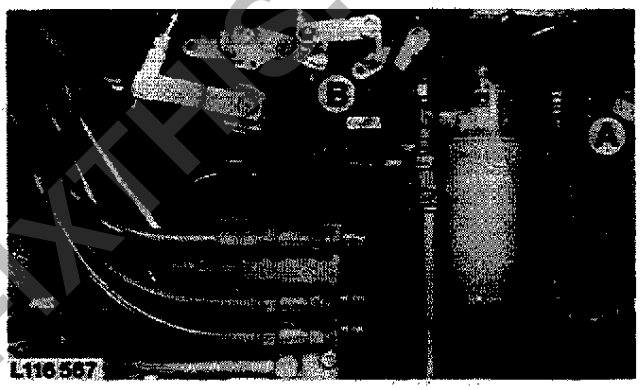
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DISCONNECTING BRAKE LINE

Disconnect brake line (A) at cab platform.

When equipped, disconnect steering return line (B) at filter.

Seal open ends with plastic plugs.

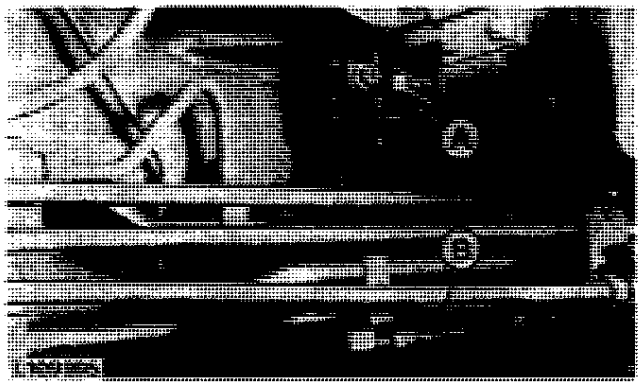


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DISCONNECTING BRAKE LINE (Tractors with U.J. Drive Shaft Brake)

Remove bracket (A) of pressure lines. Disconnect brake line (B) and tie up.

NOTE: Seal open ends with plastic plugs.



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15 – CONTROLS AND INSTRUMENTS (Without Cab)

		2250	2450	2650	2650 N	2850
Special tools	15-1	x	x	x	x	x
Specifications	15-1	x	x	x	x	x
Dash panel, controls and instruments	15-2	x	x	x	x	x
Instrument cluster	15-2	x	x	x	x	x
Removing instrument cluster	15-3	x	x	x	x	x
Instrument cluster, exploded view	15-3	x	x	x	x	x
Replacing bulbs	15-4	x	x	x	x	x
Fuses	15-5	x	x	x	x	x
Controls and instruments, exploded view	15-6	x	x	x	x	x
Replacing magnetic sending unit of engine speed meter	15-7	x	x	x	x	x
Installing start safety switch	15-7	x	x	x	x	x

20 – CONTROLS AND INSTRUMENTS (With MC1 Cab)

Special tools	20-1	x	x	x	x
Specifications	20-1	x	x	x	x
Dash panel, controls and instruments	20-2	x	x	x	x
Instrument cluster	20-2	x	x	x	x
Removing instrument cluster	20-3	x	x	x	x
Instrument cluster, exploded view	20-3	x	x	x	x
Replacing bulbs	20-4	x	x	x	x
Fuses	20-5	x	x	x	x
Controls and instruments, exploded view	20-6	x	x	x	x
Replacing magnetic sending unit of engine speed meter	20-7	x	x	x	x
Installing start safety switch	20-7	x	x	x	x

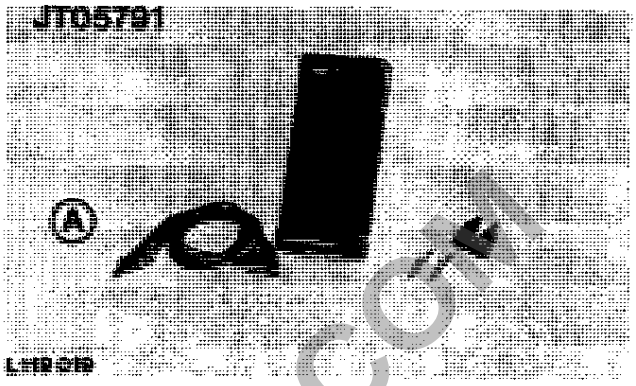
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SPECIAL TOOLS

A–Installing start safety switch



L119019-LB24010AE-010488

SPECIFICATIONS

20 ampère fuses for:

Horn
Turn-signal lights
Warning light
Stop lights, left and right-hand
Socket for trailer lighting
Hazard warning light switch
Fuel preheater

0.5 ampère fuse for:

Start safety switch

10 ampère fuses for:

All other circuits

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Section 50
POWER TRAIN – REPAIR

NOTE: Front wheel drive axles for these tractors have model designations APL-325, APL-325N and APL-735 and are dealt with in Component Technical Manual CTM-4422 "Front Wheel Drive Axles – APL-300 and APL-700 Series".

05 – CLUTCH OPERATING SYSTEMS		2250	2450	2650	2650 N	2850
Specifications	05-1	x	x	x	x	x
Torques for hardware	05-1	x	x	x	x	x
Hydraulically Operated Clutch						
– Draining clutch operating system	05-2	x	x	x		x
– Removing dash panel at panel support	05-2	x	x	x		x
– Removing clutch pedal	05-2	x	x	x		x
– Upper clutch operating system, exploded view	05-3	x	x	x		x
– Removing slave cylinder	05-4	x	x	x		x
– Slave cylinder, sectional view	05-4	x	x	x		x
– Removing throw-out bearing	05-5	x	x	x		x
– Removing ring piston	05-5	x	x	x		x
– Removing guide sleeve	05-5	x	x	x		x
– Slave cylinder, exploded view	05-6	x	x	x		x
– Repairing slave cylinder	05-7	x	x	x		x
– Installing slave cylinder	05-7	x	x	x		x
– Master cylinder, sectional view	05-8	x	x	x		x
– Disassembling master cylinder	05-8	x	x	x		x
– Master cylinder, exploded view	05-9	x	x	x		x
– Adjusting rear stop screw	05-10	x	x	x		x
– Adjusting preliminary piston rod clearance	05-10	x	x	x		x
– Preliminary adjustment of front stop screw	05-10	x	x	x		x
– Topping up with brake fluid	05-11	x	x	x		x

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KRAFTUBTRG-LB35001AE-010889

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CHECKING DISENGAGEMENT MOVEMENT OF PRESSURE PLATE

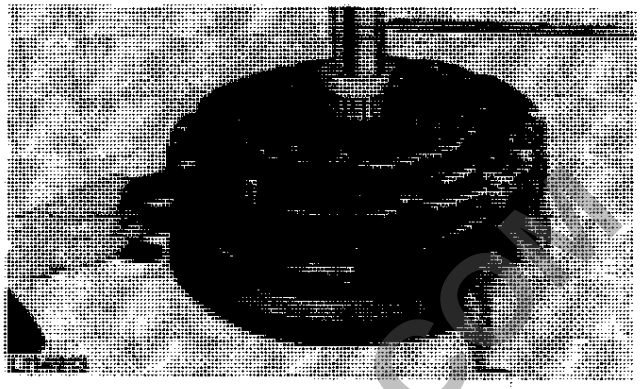
Assemble clutch assembly, clutch disk and flywheel.

Press diaphragm spring 8.5 mm (0.32 in.) downwards.

Check pressure plate at several points of circumference as to whether pressure plate has risen sufficiently from the clutch disk.

The clutch disk should turn easily. If this is not the case, check leaf springs and replace, if necessary. When replacing springs, use the relevant repair kit.

Check bearing surface of diaphragm spring. There should be no clearance between pressure plate cams and diaphragm spring.





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CHECKING TORSION DAMPER OF INDEPENDENT PTO

Check torsion damper for damage and attachment. When necessary, replace torsion damper using the relevant repair kit.

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ADJUSTING DRIVE SHAFT TAPER ROLLER BEARINGS

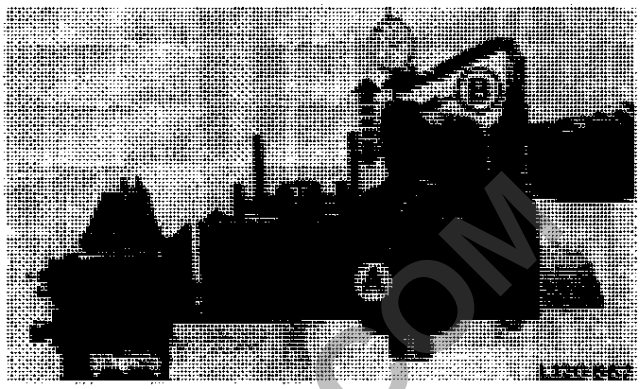
Install bearing quill (A) without shims.

Center front and rear taper roller bearing by rotating drive shaft (B).

Move drive shaft axially and measure end play.

NOTE: Mark measuring point on shaft to ensure that probe tip of gauge always contacts same point of shaft surface during measuring.

Thickness of the shims to be added must be selected so as to ensure a preload of 0.02 mm (0.0008 in.) up to an end play of 0.03 mm (0.0012 in.).



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ADJUSTING SHIFTER FORK

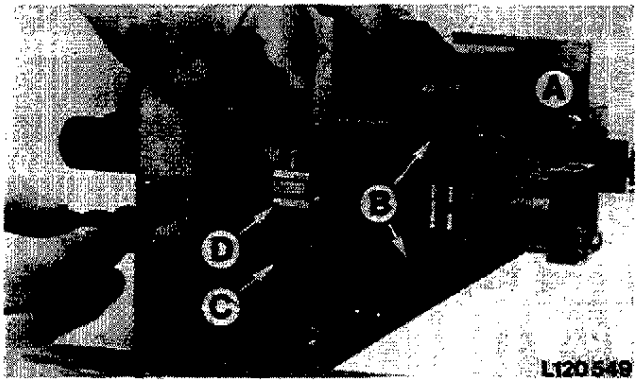
First attach shift cylinder (A) to the transmission case using two hex. socket head screws (B).

Press drive gear (C) against shift collar clearance-free using a suitable tool.

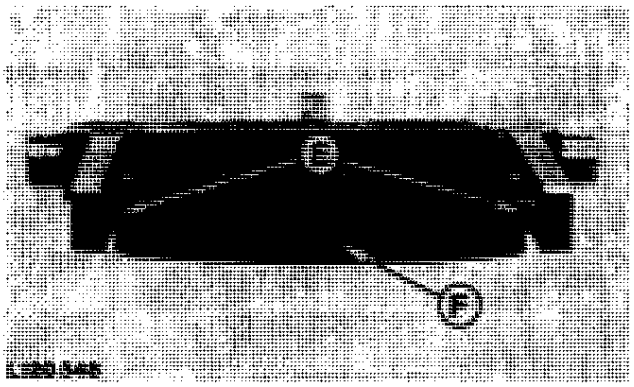
Adjust yoke (D) of the shift cylinder piston rod so that both sliding blocks (E) are exactly in center of shift collar (F).

NOTE: Sides of sliding blocks must not contact shift collar in any shift position.

Remove shift cylinder. Lock yoke with hex. nut.



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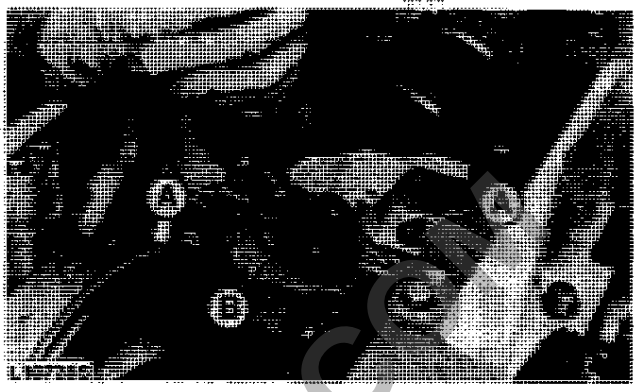
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INSTALLING SNAP RING

Install snap ring (B), thereby using a snap ring which just fits in groove, resulting in minimum axial play.

NOTE: Snap ring (A) is available with a thickness of: 1.8 mm; 1.9 mm; 2 mm; 2.1 mm; 2.2 mm (0.071 in.; 0.075 in.; 0.079 in.; 0.082 in.; 0.086 in.).

Tighten cap screws (A) to 120 Nm (85 ft-lb).

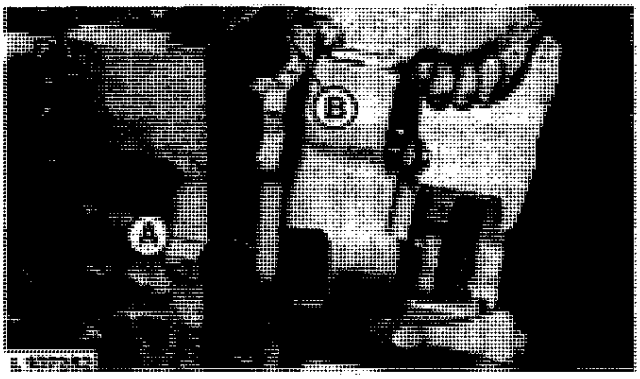


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INSTALLING TRANSMISSION BEARING QUILL

Position shifter fork (B) in shifter collar.

NOTE: When installing transmission bearing quill (A), make sure that shifter fork (B) does not jam.

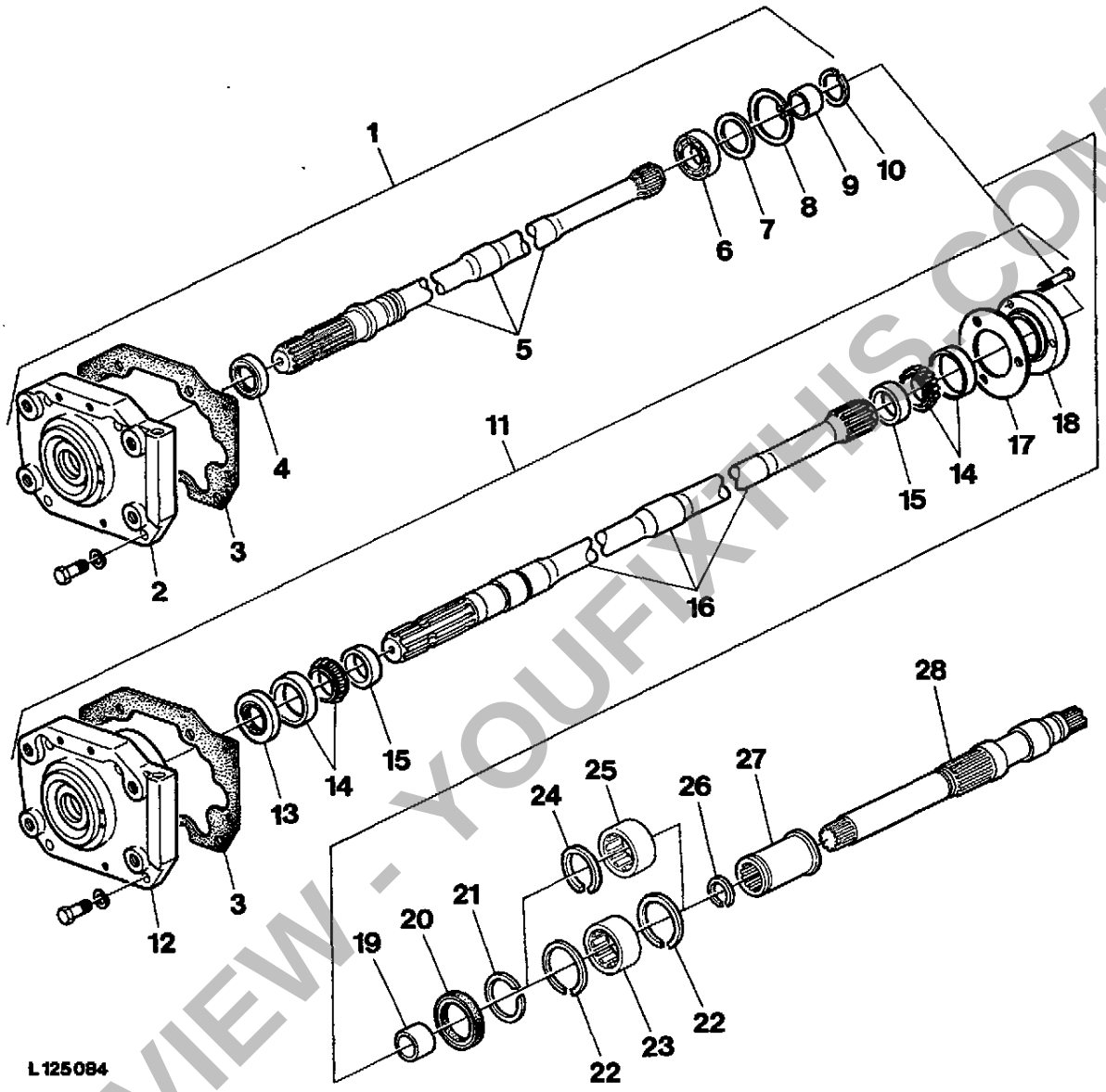


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540 RPM PTO (SYNCHRONIZED TRANSMISSION), EXPLODED VIEW



1–PTO (standard)
2–Bearing quill
3–Gasket
4–Oil seal
5–PTO shaft
6–Ball bearing
7–Washer
8–Snap ring
9–Spacer ring
10–Snap ring
11–PTO (heavy-duty)
12–Bearing quill
13–Oil seal
14–Taper roller bearing
15–Spacer rings
16–PTO shaft
17–Shims (use as reqd.)
18–Cover
19–Bushing
20–Oil seal
21–Snap ring
22–Snap rings*
23–Needle bearing*
24–Snap ring**
25–Needle bearing**
26–Snap ring
27–Connecting sleeve
28–PTO clutch shaft

* Tractors without front wheel drive
** Tractors with front wheel drive

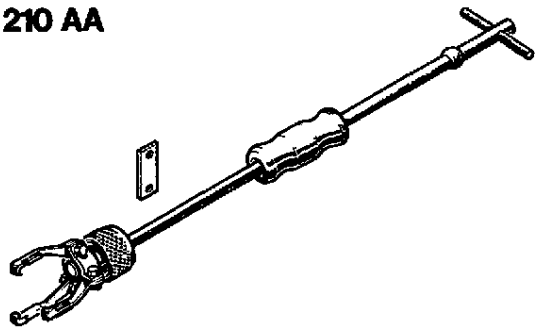
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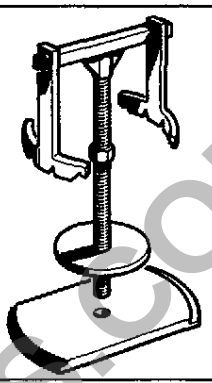
SPECIAL TOOLS

D-01210 AA



(A)

KML10005



(B)

L112404

A–Removing clutch shaft

B–Removing and installing Belleville springs

L112404-LA95050AE-001185

SPECIFICATIONS

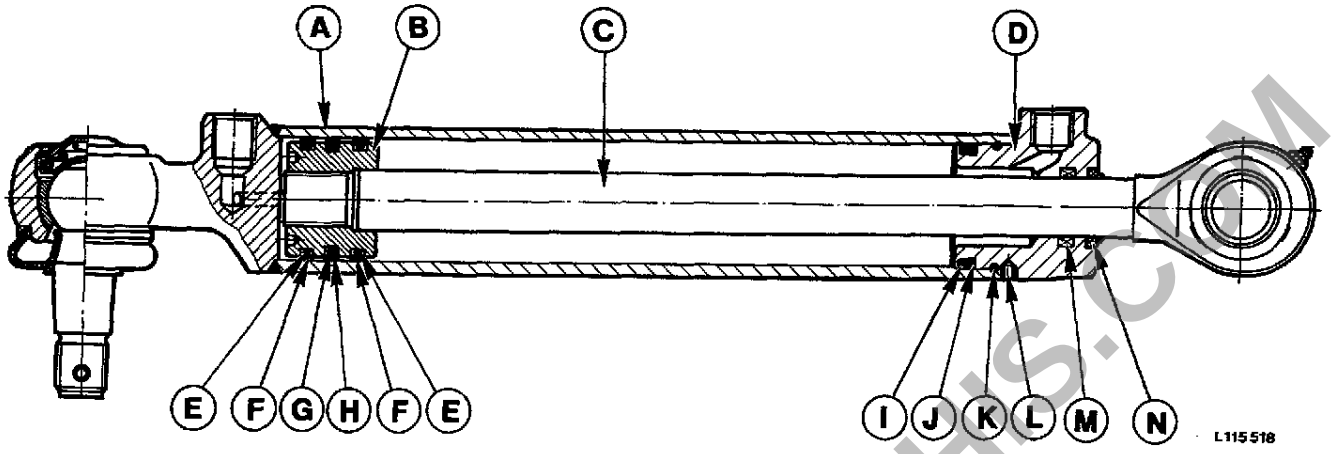
	Dimensions of New Parts
I.D. of release piston	57.13 to 57.18 mm (2.249 to 2.251 in.)
O.D. of release piston	141.30 to 141.56 mm (5.563 to 5.573 in.)
Thickness of an external splined disk	1.30 to 1.40 mm (0.051 to 0.055 in.)
Thickness of an internal splined disk	1.38 to 1.48 mm (0.054 to 0.058 in.)
Height of a Belleville spring plate (not under pressure)	7.4 mm (0.291 in.)
Adjustment of taper roller bearings:	
– Preload	0.02 mm (0.0008 in.)
– Up to an axial play of	0.03 mm (0.0012 in.)
Disk clutch slips at a torque of	
– Tractors 2250, 2450, 2650 and 2650N	880 Nm (650 ft-lb)
– Tractor 2850	1000 Nm (740 ft-lb)

MFWD-LB35075AE-010888

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DOUBLE-ACTING STEERING CYLINDER (AL36563), SECTIONAL VIEW



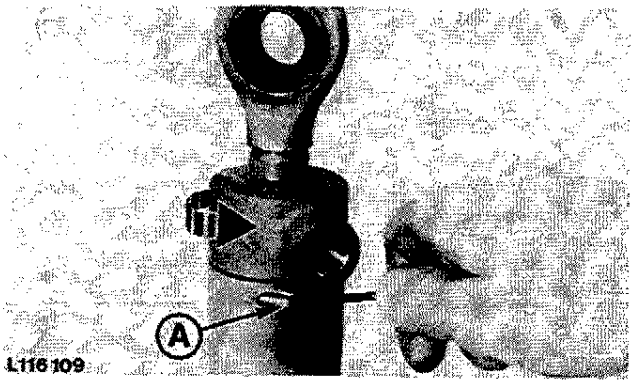
A–Cylinder barrel
B–Piston
C–Piston rod
D–Piston rod guide
E–O-ring (when equipped)
F–Wear ring
G–O-ring
H–Piston seal ring
I–O-ring
J–Back-up ring
K–Locking wire
L–Grub screw
M–Piston rod seal
N–Wiper seal

L115518-LB26010AE-010488

REMOVING LOCKING WIRE

Remove grub screw.

Turn piston rod guide and pull end of locking wire (A) through bore using a screwdriver. Continue to rotate piston rod guide and completely remove locking wire. Pull piston rod complete with piston rod guide out of cylinder barrel.



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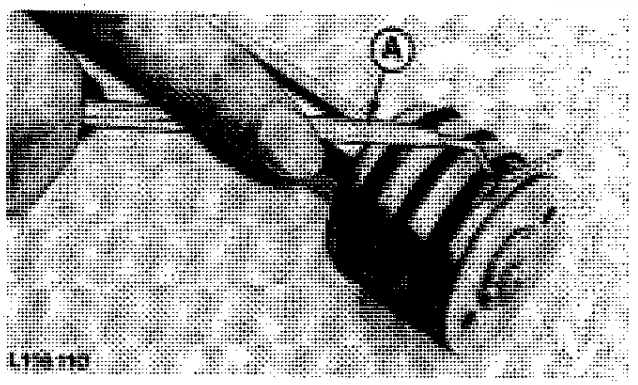
REMOVING PISTON SEAL RINGS

Remove seal ring and O-rings from piston using seal hook JDH-6 (A).

NOTE: Depending upon type of piston, there are three O-rings or one O-ring (center groove).

Unscrew piston from piston rod.

NOTE: Heat piston before removing as it is sealed with Loctite.



L116110-LB26010AE-280289

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BLEEDING U.J. DRIVE SHAFT BRAKE

Slowly depress both brake pedals simultaneously and then allow them to return slowly until oil in hose is free from air bubbles.

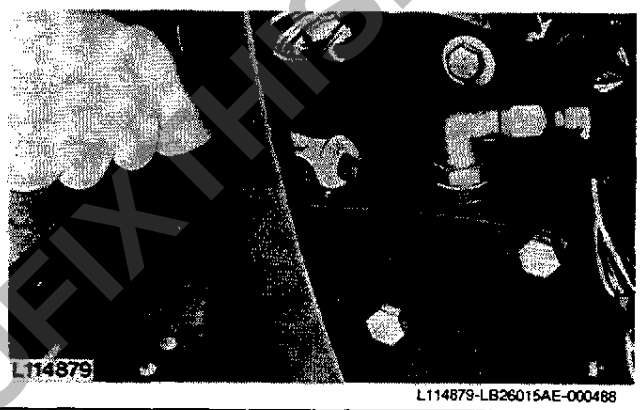


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CHECKING BRAKE SYSTEM FOR LEAKAGE

Apply a force of 270 N (60 lb) to each brake pedal individually for one minute. Within this period the loaded brake pedal should not sink more than a maximum of 25 mm (1 in.).

NOTE: Should a fault occur, then refer to Technical Manual "Operation and Tests", Section 260.



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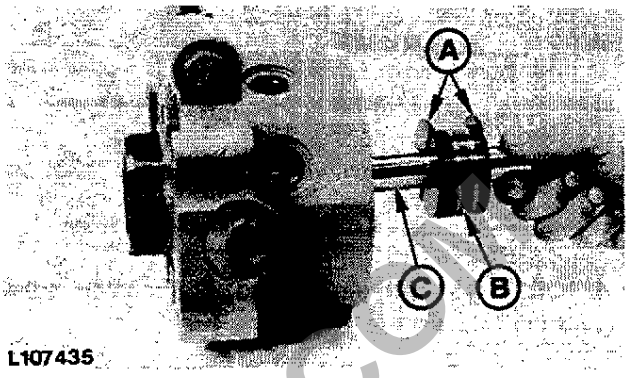
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INSTALLING PUMP SHAFT

Hydraulic Pumps Without Through Drive Shaft

Place race (B) with 33 bearing needles on cam of pump shaft (C).

Oil grooves of both thrust washers (A) must face outwards.



L107435

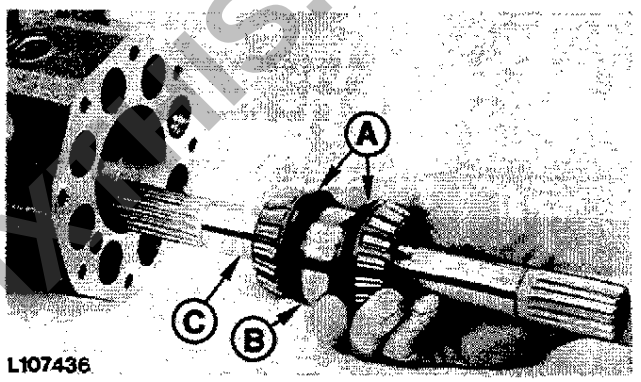
L107435-LB47010AE-010687

Hydraulic Pumps With Through Drive

Place race (B) with 33 bearing needles on cam of pump shaft (C).

Oil grooves of both thrust washers (A) must face outwards.

NOTE: Install pump shaft with longer splines facing forward. Protect pump shaft seals by wrapping plastic film around shaft splines.



L107436

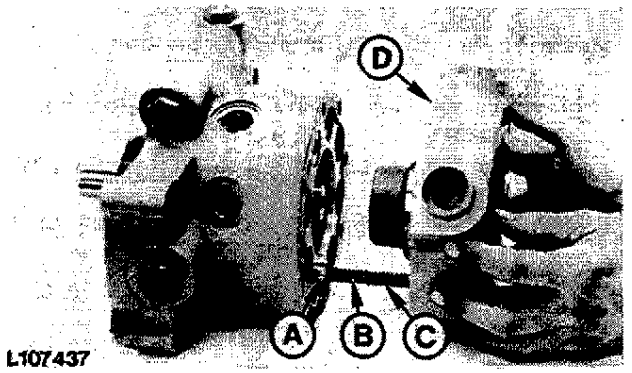
L107436-LB37010AE-010888

FITTING PUMP COVER

Fit pump cover (D) with crankcase outlet valve (A) and valve pin (in housing), as well as spring (B) with spring guide (C).

Torques for attaching screws:

1st stage: 20 Nm (14 ft-lb)
2nd stage: 50 Nm (35 ft-lb)



L107437

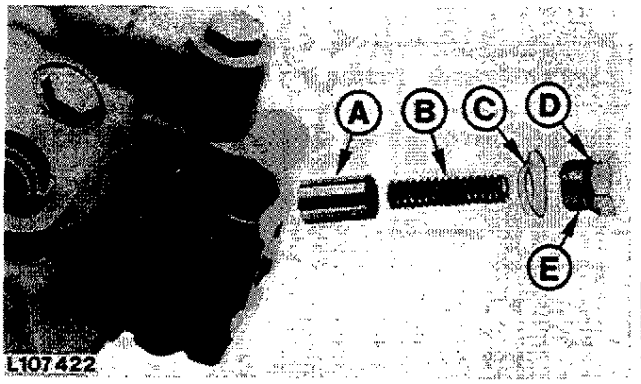
L107437-LB27010AE-010886

INSTALLING PUMP PISTONS

IMPORTANT: Install plug (E), O-ring (D) and protective sheath (C) oil-free.

Tighten plug to 125 Nm (90 ft-lb).

A–Piston
B–Spring
C–Protective sheath
D–O-ring
E–Plug



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GENERAL FUNCTIONAL TEST

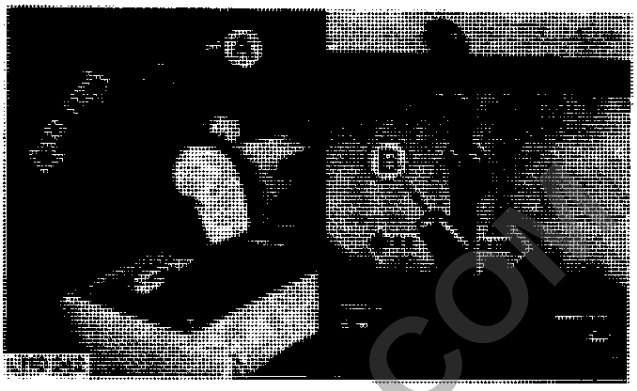
Move rockshaft control lever (B) forward to "LOWER" position.

Move selector lever (A) from "MAX" to "MIN" and back to "MAX".

Move control lever to the rear to "RAISE" position.

Move selector lever from "MAX" to "MIN" and back to "MAX".

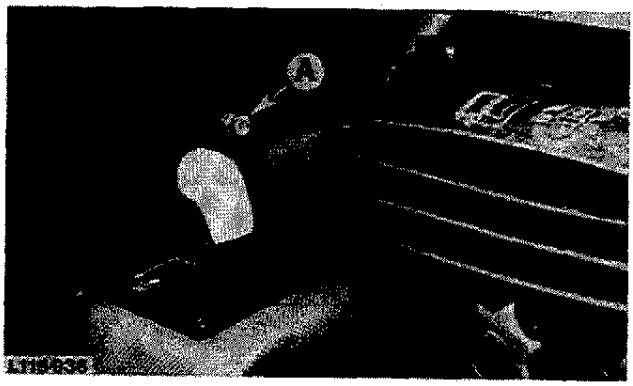
The lift arms should not move when moving load selector lever from "MAX" to "MIN" and back to "MAX".



L110342-LA77015AE-250185

ADJUSTING MOVEMENT OF CONTROL LEVER

Vibration should not cause control lever to change its position during operation. If this is the case, adjust movement with adjusting screw (A) after loosening lock nut.



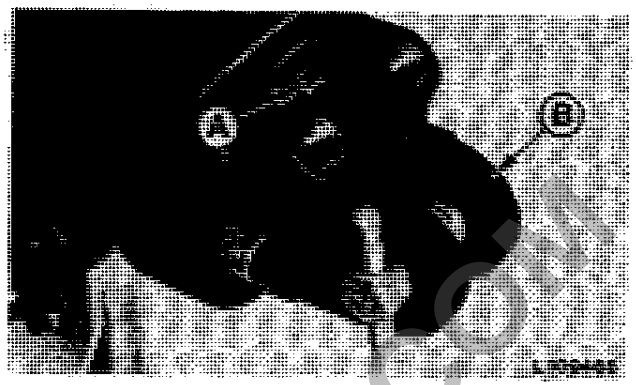
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REMOVING COVER

Remove the four cap screws (A) and take off cover (B).

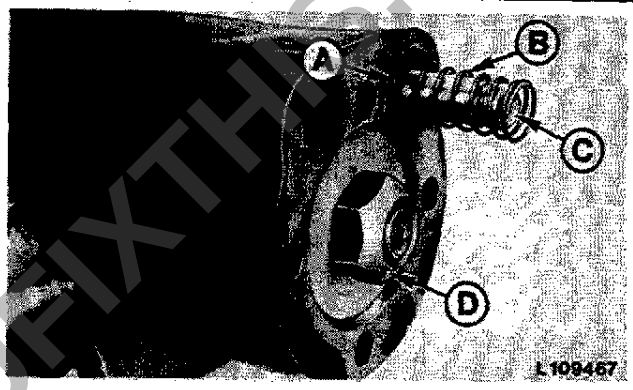


L109466-LA77035AE-040185

REMOVING PISTON

Remove spring (B) and valve (C). Replace seal ring (A).
Remove hex. nuts (D) and lift out piston with piston rod.

A–Seal ring
B–Spring
C–Valve
D–Hex. nut

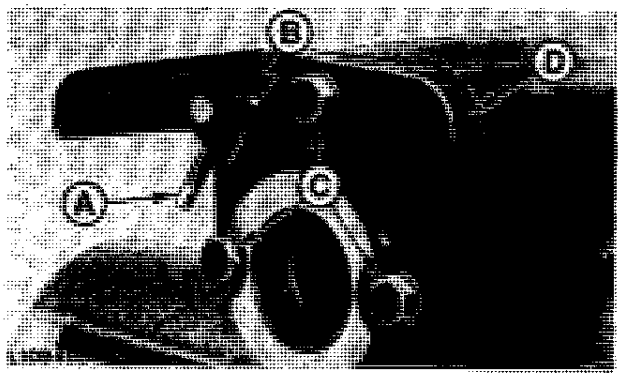


L109467-LA77035AE-040185

REMOVING PISTON ROD GUIDE

Press stop rod (B) into cylinder. Drive out grooved pin (A). Remove screws (C) and lift off piston rod guide (D).
Remove stop rod.

A–Grooved pin
B–Stop rod
C–Cap screws
D–Piston rod guide

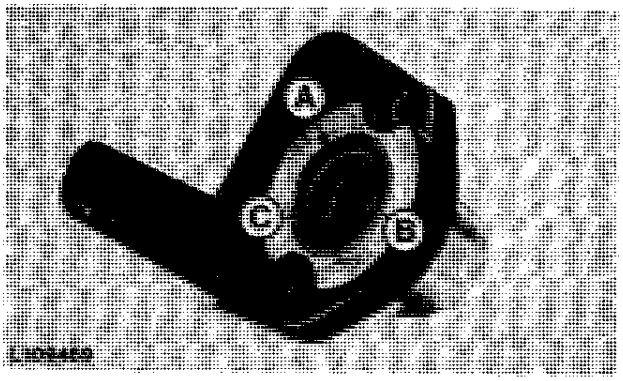


L109468-LA77035AE-040185

OVERHAULING PISTON ROD GUIDE

Install seal ring (A) with sealing lip facing outwards.

A–Seal ring
B–O-ring
C–Back-up ring

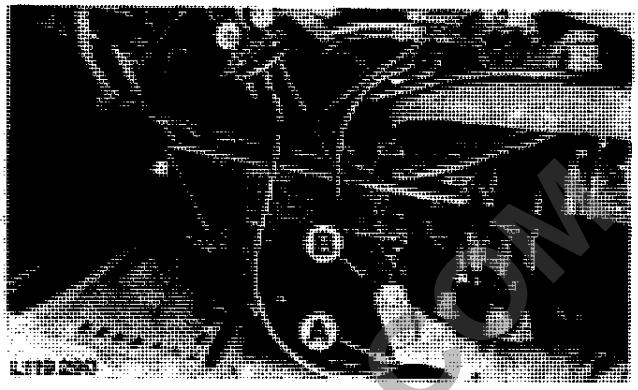


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CHARGING THE SYSTEM



CAUTION: To avoid injury, always wear safety glasses and gloves when servicing the system. Never discharge refrigerant into an area where there is an open flame. Refrigerant exposed to an open flame produces phosgene gas which is very poisonous.

CAUTION: To avoid damage to compressor, engins MUST be shut off when charging high pressure side of system with refrigerant.

Connect gauge set FKM10001-6* as described under "Discharging the System".

Connect dispensing valve FKM10001-10* (A) with refrigerant container FKM10001-9* (B) and connect yellow hose.

Loosen hose connection to gauges. Open dispensing valve briefly to purge air from yellow hose. Retighten hose connection.

Open dispensing valve and high side gauge valve. Both gauges should no longer show a vacuum.

NOTE: Should reading of low pressure gauge not rise, then this signalizes a blockage in the system which must be removed.

Close high pressure valve as soon as pressure stops rising.

Run engine at 1500 rpm with system control set for maximum cooling.

Keep refrigerant container upright and open low pressure valve.

IMPORTANT: Refrigerant must not enter the compressor as this will cause internal damage.

Specified full charge: 1.8 kg (4 lb.).

NOTE: Charging the system can be accelerated by placing refrigerant container in warm water with a maximum temperature of 50°C (120°F).

* Is part of tester FKM10001

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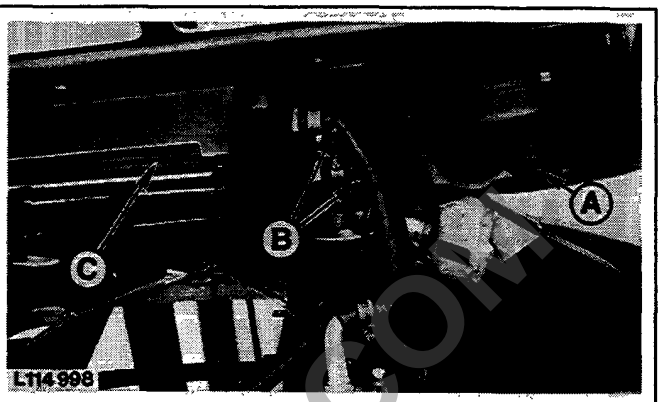
REMOVING FAN ASSEMBLY AND RADIATOR

Drain cooling system.

Raise cab inner section and support with two pieces of wood.

Disconnect hot water hoses (B) at radiator (C).

Remove radiator (C) and fan assembly (A) from roof.



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REMOVING HOT WATER HOSES

Disconnecting Point – SG2 Cab

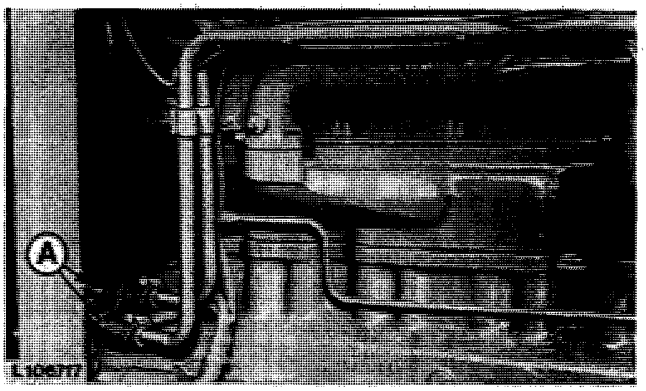
Disconnect hot water hoses at bottom left and right-hand side of cab at connecting pipe (A).



L114999-LB29015AE-010886

Disconnecting Point – Engine

Disconnect hot water hoses (A).



L106717-LA79010AE-091184

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