2355, 2555, 2755 AND 2855N TRACTORS TECHNICAL MANUAL TM4434 (NOV-89)

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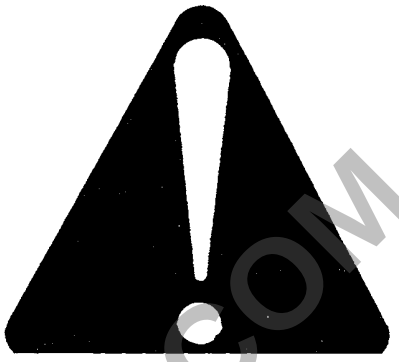
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SAFETY AND YOU

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.



T81389

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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ENGINE

Number of cylinders	4
Cylinder liner bore	106.5 mm (4.19 in.)
Stroke	110 mm (4.33 in.)
Displacement	3920 cm³ (239 cu.in.)
Compression ratio	17.8 : 1
Max. torque	
With synchronized transmission	
– 2355 at 1400 rpm	255 Nm (188 ft-lb)
– 2555 at 1500 rpm	285 Nm (210 ft-lb)
– 2755 at 1500 rpm	328 Nm (241 ft-lb)
– 2855N at 1500 rpm	340 Nm (250 ft-lb)
With collar shift transmission	
– 2355 at 1300 rpm	230 Nm (169 ft-lb)
– 2555 at 1300 rpm	248 Nm (183 ft-lb)
– 2755 at 1500 rpm	297 Nm (219 ft-lb)
Firing order	1–3–4–2
Valve clearance (engine hot or cold)	
– Intake valve	0.35 mm (0.014 in.)
– Exhaust valve	0.45 mm (0.018 in.)
Slow idle speed	750 to 850 rpm
Fast idle speed	
– Synchronized transmission	2410 to 2510 rpm
– Collar shift transmission	2610 to 2660 rpm
Rated engine speed	
– Synchronized transmission	2300 rpm
– Collar shift transmission	2500 rpm
Working speed range	
Synchronized transmission	
– 2355	1400 to 2300 rpm
– 2555, 2755 and 2855N	1500 to 2300 rpm
Collar shift transmission	
– 2355 and 2555	1300 to 2500 rpm
– 2755	1500 to 2500 rpm

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ROCKSHAFT	
– Type	With three-point hitch
– Regulation	Load control, depth control, load-and-depth control, float position
– Control	Via draft links
GROUND TRAVEL SPEEDS	See Operator's Manual
FRONT AND REAR WHEELS	
– Tires, tread widths, tire pressures and ballast weights	See Operator's Manual
DIMENSIONS AND WEIGHTS	See Operator's Manual
CAPACITIES	
Fuel tank	84.0 liters (22.2 U.S. gal.)
Auxiliary tank	52.0 liters (13.7 U.S. gal.)
Cooling system	
– Without SOUND-GARD Body	13.0 liters (3.4 U.S. gal.)
– With SOUND-GARD Body	15.0 liters (4.0 U.S. gal.)
Engine crankcase	
– Initial filling	10.5 liters (2.8 U.S. gal.)
– Crankcase with filter replacement	10.0 liters (2.6 U.S. gal.)
Transmission/hydraulic system (including oil reservoir and oil cooler)	
– Initial filling (synchronized transmission)	
– Without front wheel drive	50.0 liters (13.2 U.S. gal.)
– With front wheel drive	53.0 liters (14.0 U.S. gal.)
– With front PTO	55.0 liters (14.5 U.S. gal.)
– Oil change with filter replacement	
– Without front wheel drive	47.5 liters (12.5 U.S. gal.)
– With front wheel drive	50.5 liters (13.3 U.S. gal.)
– With front PTO	52.5 liters (13.9 U.S. gal.)

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STANDARD TORQUES FOR HARDWARE

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

(A)	(B)		(C)	
	Nm	ft-lb	Nm	ft-lb
3/8-24 UNF	7,5	5,5	8	6
7/16-20 UNF	10	7	12	9
1/2-20 UNF	12	9	15	11
9/16-18 UNF	15	11	25	18
3/4-16 UNF	25	20	45	35
7/8-14 UNF	40	30	60	45
1-1/16-12 UNC	60	45	100	75
1-3/16-12 UNC	70	50	120	90
1-5/16-12 UNC	80	60	140	105
1-5/8-12 UNC	110	80	190	140
1-7/8-12 UNC	150	110	220	160

L 110 192

A–Thread size **B–With O-rings** **C–With cone**

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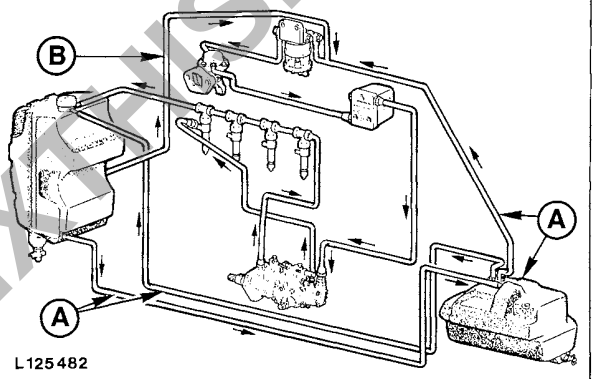
PREDELIVERY INSPECTION

NOTE: Should a malfunction occur when carrying out the predelivery inspection, then see relevant T.M. "Engines" or "Operation and Tests".

INSPEK-LB21010JE-010488

CHECKING FUEL LINES FOR LEAKS

A–Tractors with auxiliary fuel tank
B–Tractors without auxiliary fuel tank



L125482-LB31010AE-010888

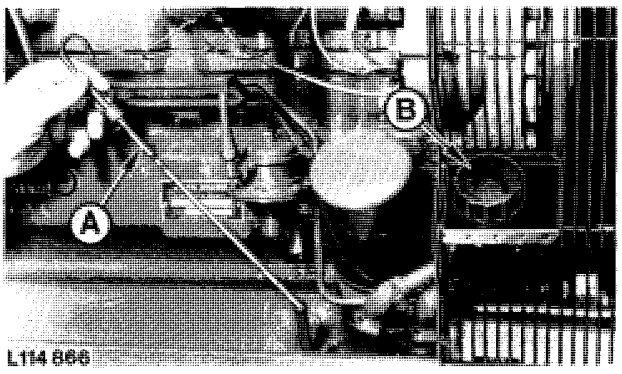
EXAMINING ENGINE FOR LEAKS

INSPEK-LB21010EE-010886

CHECKING OIL LEVEL IN ENGINE CRANKCASE

If necessary, add oil to bring oil level to top mark on dipstick. Use JOHN DEERE Torq-Gard Supreme engine oil SAE 10W-20 or an equivalent oil (see Group 15).

A–Oil dipstick
B–Oil filler neck



L114866-LB21010AE-010886

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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 600 hours
Cooling System	
W/o SOUND-GARD Body . . . 13.0 liters (3.4 U.S. gal.)	Change coolant every two years
With SOUND-GARD Body . . . 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 600 hours**
– With FWD . . . . . 53.0 liters (14.0 U.S. gal.)	Change transmission oil every 1200 hours
– With front PTO . . . . . 55.0 liters (14.5 U.S. gal.)	Every 1200 hours clean hydraulic pump filter screen
Oil change and replace filter:	
– Without FWD . . . . . 47.5 liters (12.5 U.S. gal.)	Every 1200 hours replace hydrostatic steering
– With FWD . . . . . 50.5 liters (13.3 U.S. gal.)	oil filter
– With front PTO . . . . . 52.5 liters (13.9 U.S. gal.)	
Initial filling (collar shift transmission)	
– 2355 and 2555* . . . . . 41.0 liters (10.8 U.S. gal.)	
– 2755 . . . . . 46.0 liters (12.2 U.S. gal.)	
Oil change with filter replacement:	
– with Reverser . . . . . 28.0 liters (7.4 U.S. gal.)	
– without Reverser	
– 2355 and 2555* . . . . . 33.0 liters (8.7 U.S. gal.)	
– 2755 . . . . . 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	
Front axle housing	
– 2355 to 2755 . . . . . 5.3 liters (1.4 U.S. gal.)	Check oil level every 100 hours
– 2855N . . . . . 3.25 liters (0.86 U.S. gal.)	
Wheel hub housings (each) . . . . . 0.75 liters (0.2 U.S. gal.)	Change oil every 1200 hours***
Clutch Operating System	
– Hydraulically operated clutch . . 250 cm^3 (8.75 fl.oz.)	Change brake fluid every two years

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

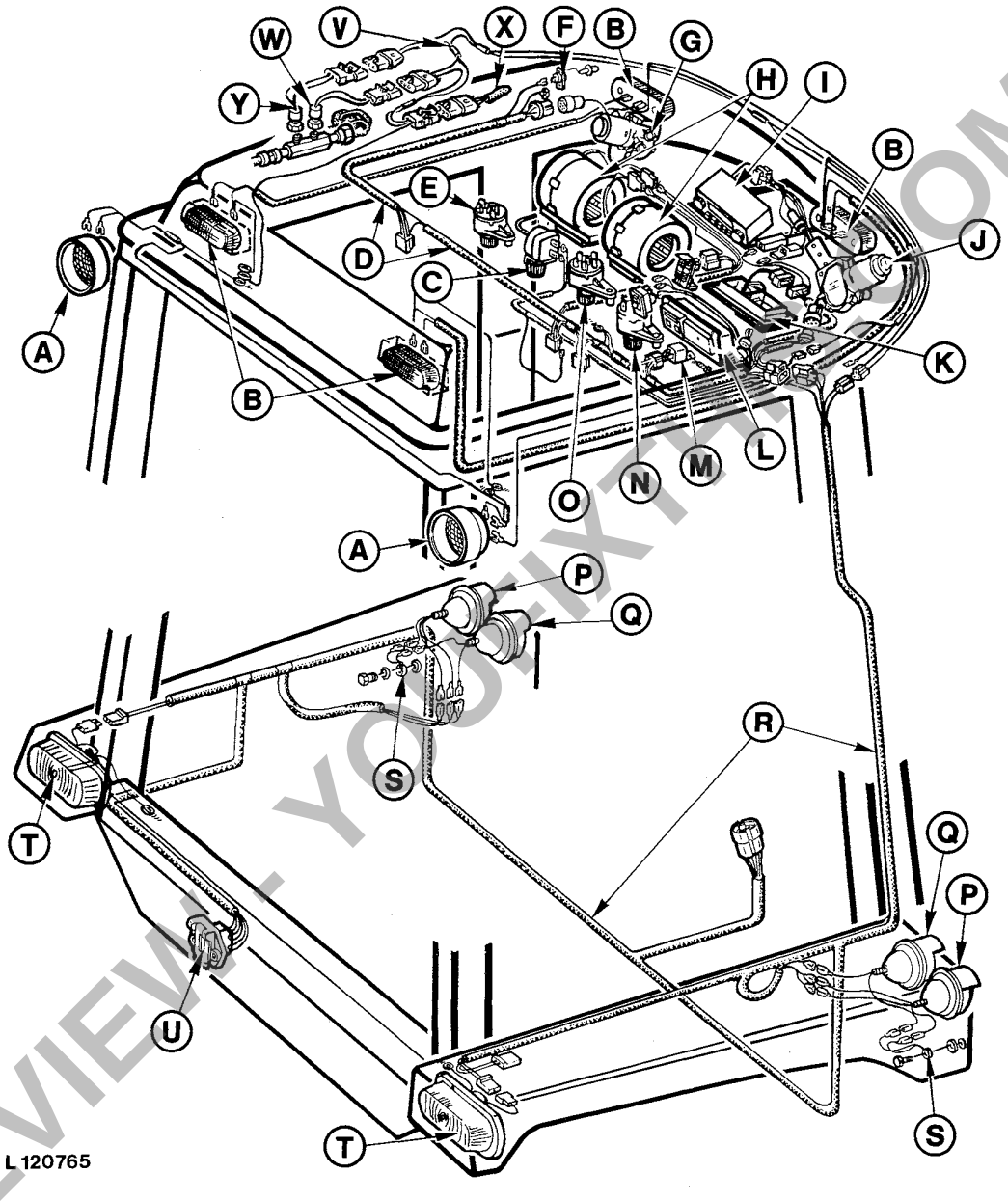
** Replace transmission/hydraulic filter element after the first 50 hours of operation, after the first 600 and thereafter every 600 hours of operation.

*** On tractors with front wheel drive, first oil change after 100 hours of operation. Thereafter every 1200 hours of operation, but at least once every year.

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SOUND-GARD Body WIRING HARNESSES



L120765

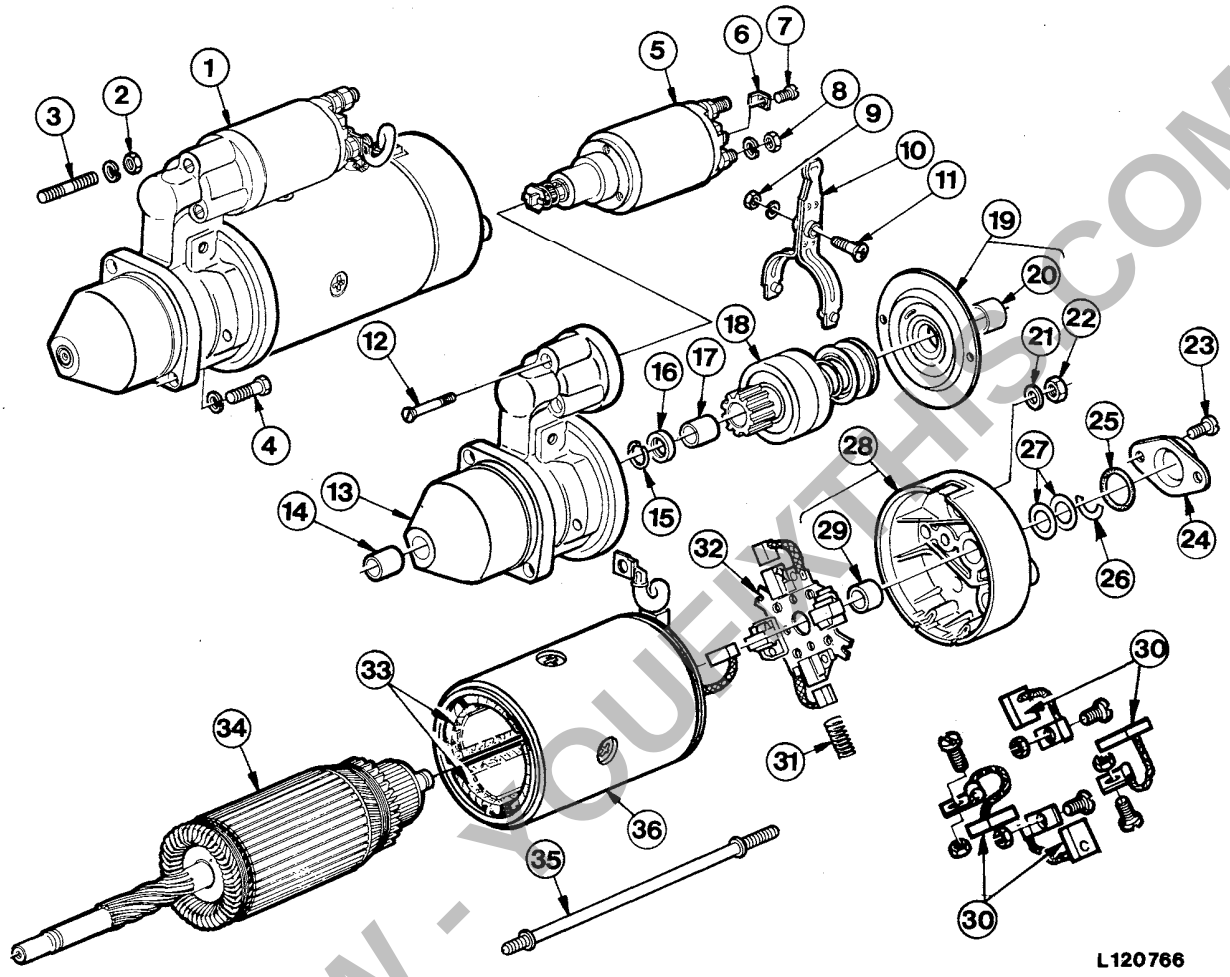
A–Work lamp
B–Warning lamps
C–Air conditioning switch
D–SOUND-GARD body roof wiring harness
E–Windshield wiper switch, left-hand
F–Door switch
G–Windshield wiper, left-hand
H–Fan
I–Radio
J–Windshield wiper, right-hand
K–Cab interior light
L–Clock
M–Fan relay
N–Windshield wiper switch, right-hand
O–Fan switch
P–Head lamps
Q–Work lamps
R–SOUND-GARD body wiring harness
S–Ground cable
T–Tail lamps
U–7-terminal socket
V–Wiring harness*
W–High pressure switch*
X–Diode*
Y–Low pressure switch*

* From Tractor Serial No. 663 474L

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STARTING MOTOR, EXPLODED VIEW



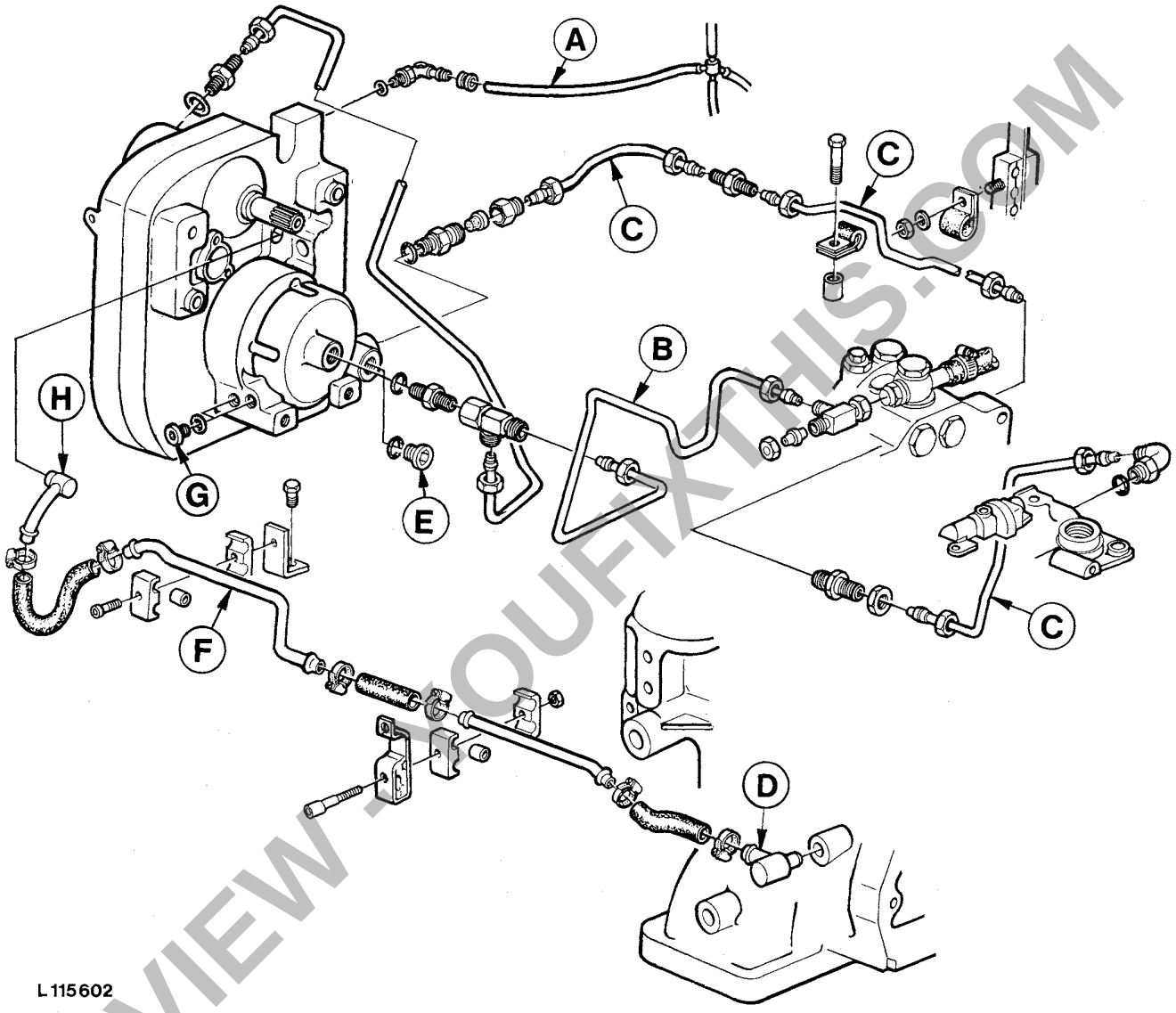
1–Starting motor assembly
2–Hex. nut
3–Stud
4–Cap screw
5–Solenoid switch
6–Securing clip
7–Cylinder head screw
8–Hex. nuts (4 used)
9–Hex. nut
10–Engaging lever
11–Pivot screw
12–Countersunk screw (3 used)
13–Drive end frame assembly
14–Bushing
15–Snap ring
16–Stop ring
17–Bushing
18–Drive with pinion
19–Center bearing
20–Bushing
21–Washer (2 used)
22–Hex. nut (2 used)
23–Cylinder head screw (2 used)
24–Cover cap
25–Rubber ring
26–Fixing washer
27–Shims
28–Commutator end frame
29–Bushing
30–Carbon brushes (kit)
31–Compression spring (4 used)
32–Carbon brush plate
33–Winding
34–Armature
35–Stud (2 used)
36–Field frame

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OIL LINES



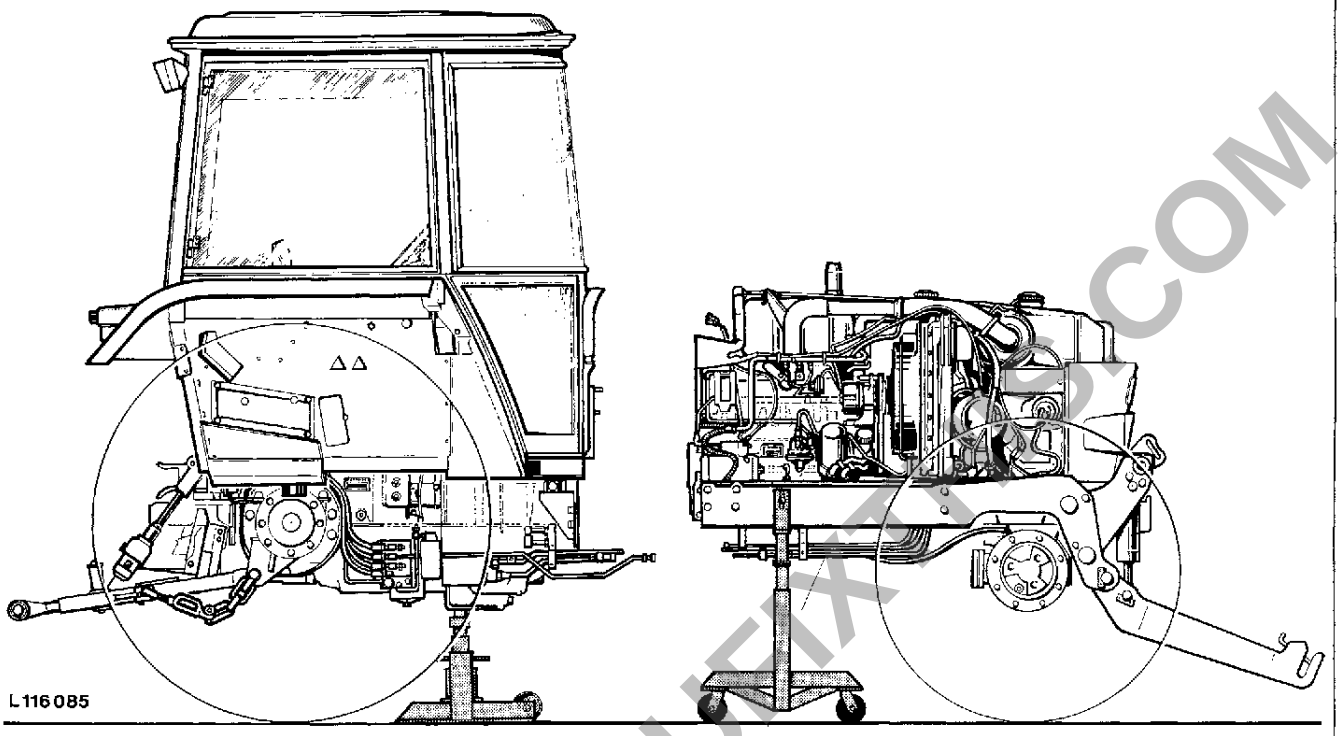
A–Leakage oil line
B–Lubricating oil line
C–Pressure oil line
D–Elbow fitting
E–Test plug (PTO clutch)
F–Return oil line
G–Test plug (PTO brake, rear plug)
H–Elbow fitting

L115602-LB65055AE-011086

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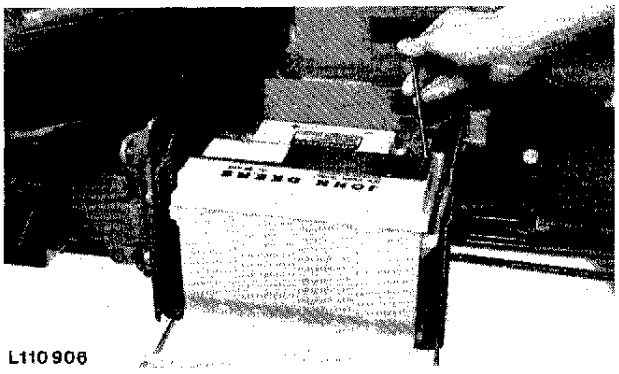
SEPARATING BETWEEN ENGINE AND CLUTCH HOUSING



L116085-LB31025AE-010287

DISCONNECTING BATTERY GROUND STRAPS

Remove batteries.



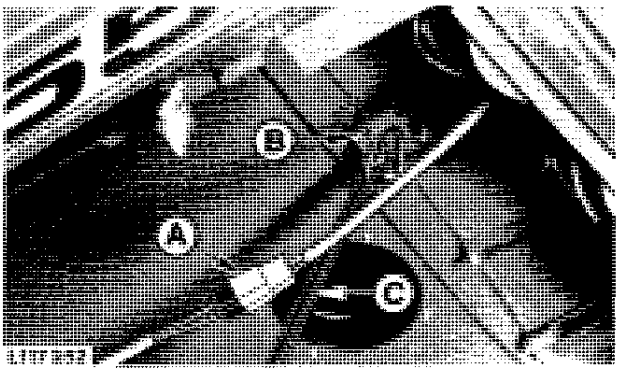
L110906-LA11025AE-260885

REMOVING ENGINE HOOD

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

Before removing hood, disconnect lightbar cables (A) at connector.

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



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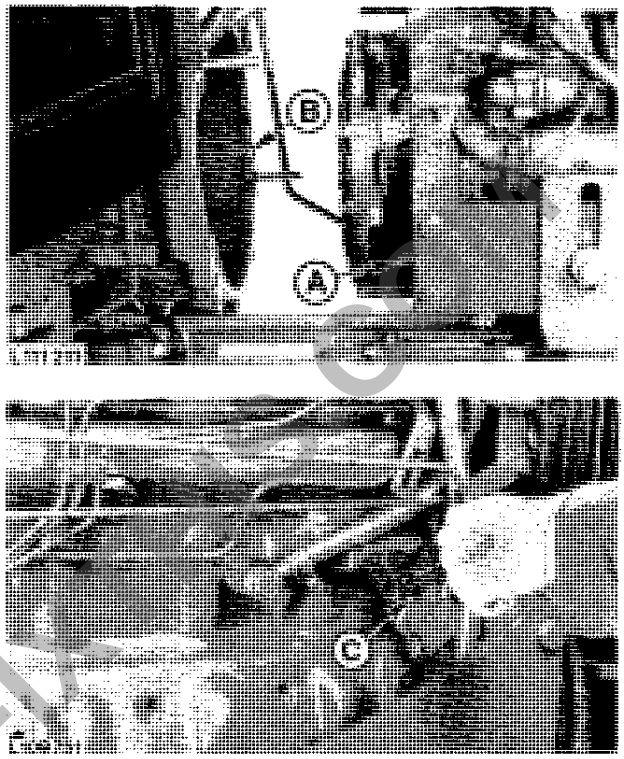
JOINING TRACTOR BETWEEN ENGINE AND CLUTCH HOUSING

Coat splines and bearing journal of solid drive shaft (B) and splines of the hollow drive shaft thinly and uniformly with RENOPLEX grease GLP2 (L63503).

Move engine towards tractor rear end exactly in line with solid drive shaft (B) and hollow drive shaft.

Using rotating tool JDE-83 (C), align teeth of clutch disk and torsion damper to splines of both shafts.

Applying uniform pressure, move engine until it evenly contacts clutch housing, at the same time guiding both flywheel housing dowel pins (A) and stud into clutch housing bores.

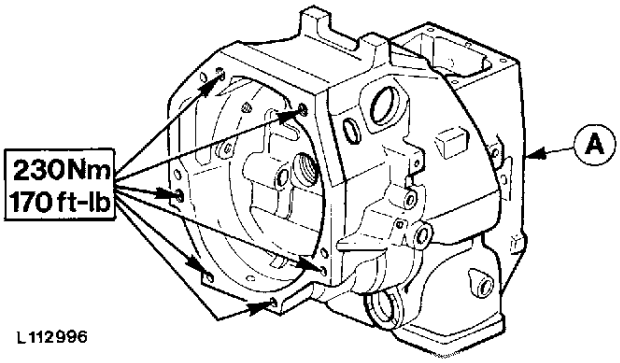


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TORQUES FOR HARDWARE BETWEEN ENGINE AND CLUTCH HOUSING

IMPORTANT: Make sure that flywheel housing is flush against clutch housing before tightening cap screws.

A–Clutch housing

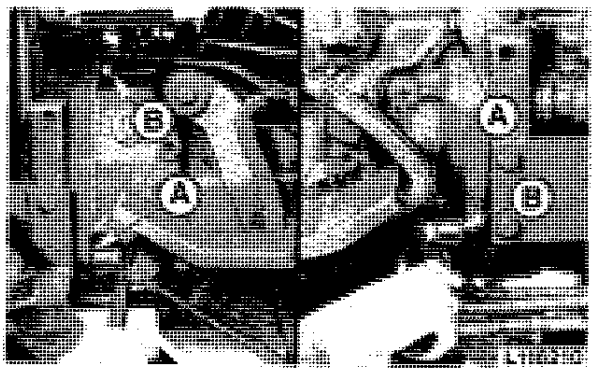


L112996-LB31025AE-000287

Tractors Without SOUND-GARD Body

Complete assembly, reversing removal procedure.

A–Cap screws
B–Hex. nuts



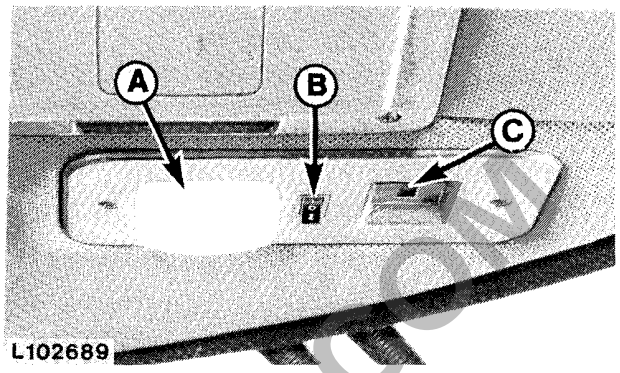
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CHECKING CAB INTERIOR LIGHTS (With SOUND-GARD Body)

Turn switch (B) to position 1, lamp (A) glows continuously and, in position 2, it glows as long as cab door is open.

Lamp (C) illuminates transmission shift lever as soon as headlights are switched on.



L102689

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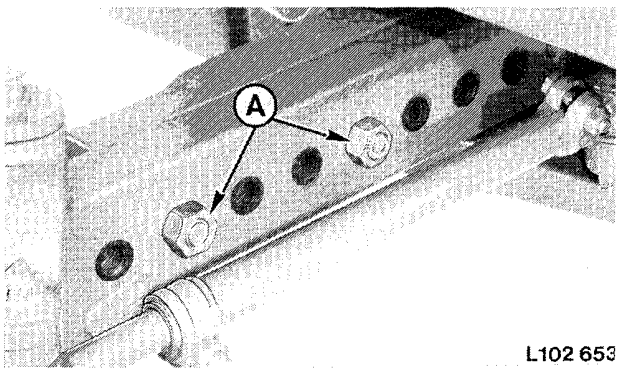
CHECKING INSTRUMENTS AND INDICATOR LIGHTS

See Operator's Manual.

INSPEK-LB21010FE-010886

CHECKING TORQUE OF ADJUSTABLE FRONT AXLE BOLTS (When Equipped)

Tighten axle bolts (A) to 400 Nm (300 ft-lb).

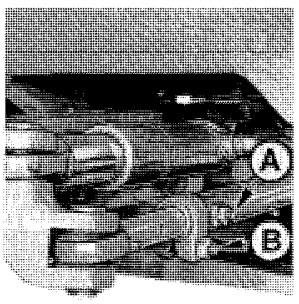


L102 653

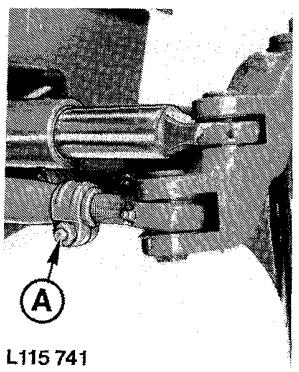
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CHECKING TIE ROD BOLTS (Tractors With Adjustable Front Axle)

Tighten clamping screws (A) to 55 Nm (40 ft-lb) and clamping screw (B) to 90 Nm (65 ft-lb).



L115 740



L115 741

L115740,L115741-LB61010AE-011086

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FINAL ASSEMBLY

Fill cooling system with coolant. See Group 15 of this section.

Check transmission oil level and top up if necessary. See Group 15 of this section.

IMPORTANT: Connect ground strap of batteries to negative pole.

TEILEZ-LA71025FE-000385

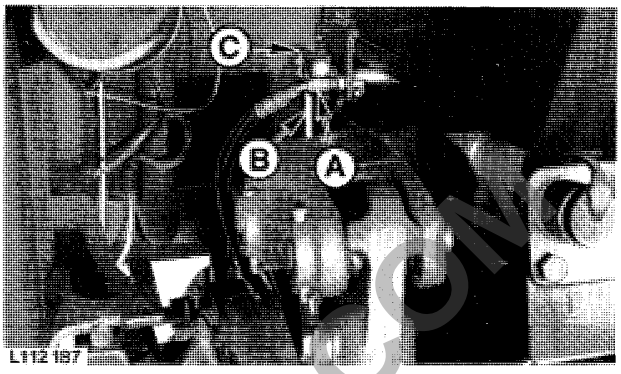
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DISCONNECTING BRAKE HOSE AND DIFFERENTIAL LOCK ROD

Disconnect brake hose (A) and seal open ends with plastic plugs.

Remove spring clip (C) and unhook rod (B) from top bore.

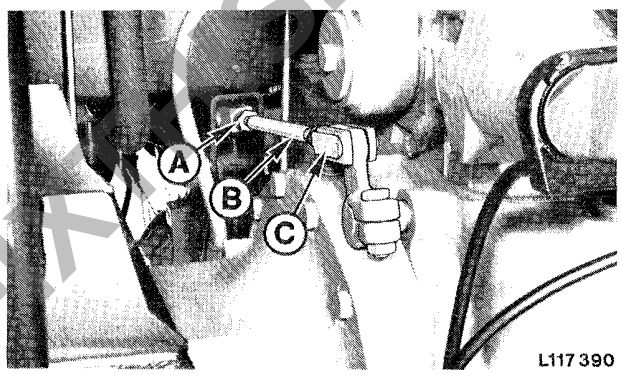


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REMOVING HANDBRAKE ROD

Loosen hex. nut (A) on rear yoke, then remove safety strap (C) and unscrew handbrake rod (B).

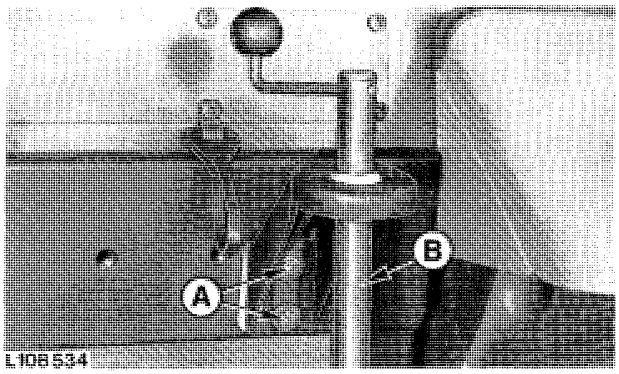
NOTE: Before unscrewing the handbrake rod, measure assembly length and note for reinstallation.



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REMOVING ROCKSHAFT LIFT LINK ADJUSTER

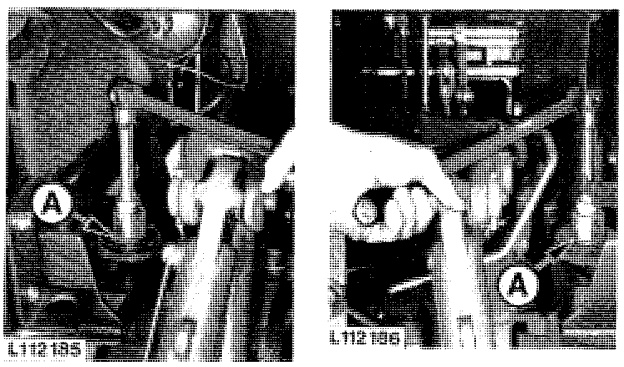
Remove cap screws (A) and lift off adjuster (B).



L108534-LA71025AE-000385

REMOVING REAR SOUND-GARD BODY MOUNTING HEX. NUTS

A–Hex nuts



L112185,L112186-LB71025BE-010487

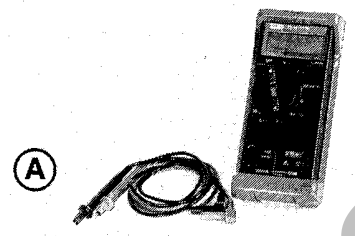
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SPECIAL TOOLS

JT05791

A–Multimeter for current reading when installing neutral start switch



L119 019

L119019-LB64010AE-010688

SPECIFICATIONS

15 ampère fuse for: Light switch

20 ampère fuse for: Main switch*

0.5 ampère fuse for: Neutral start switch

10 ampère fuses for all other circuits

* Up to Tractor Serial No. 637 100L

BEDKONTR-LB74010AE-011088

GP Tractors

15 ampère fuse for: Headlamps*

20 ampère fuse for: Main switch, light switch, starting circuit

0.5 ampère fuse for: Neutral start switch

10 ampère fuses for all other circuits

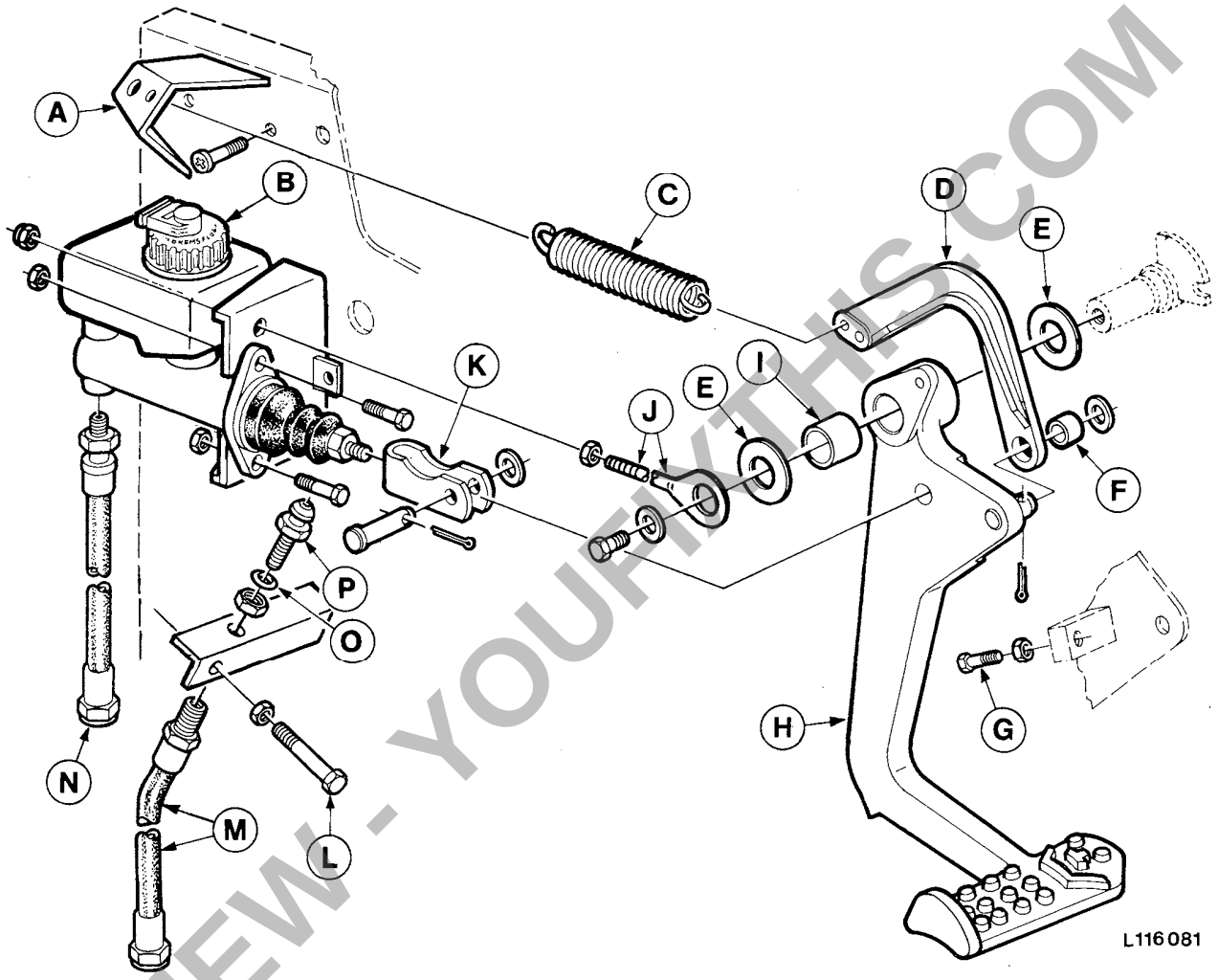
* From Tractor Serial No. 637 101L

BEDKONTR-LB74010BE-011088

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UPPER CLUTCH OPERATING SYSTEM, EXPLODED VIEW
(Hydraulically Operated Clutch)



A–Support
B–Reservoir
C–Spring
D–Bracket
E–Washers

F–Bushing*
G–Rear stop screw
H–Clutch pedal
I–Bushing (2 used)
J–Eye bolt

K–U-bracket
L–Front stop screw
M–Bleed hose
N–Pressure hose
O–O-ring
P–Bleed screw

* Up to Tractor Serial No. 627 060L

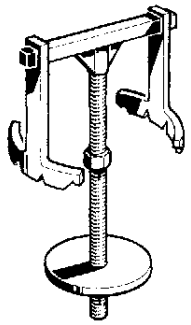
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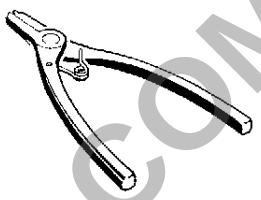
SPECIAL TOOLS

JDT - 24 A



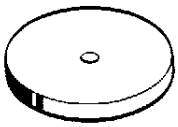
Ⓐ

JDT-1



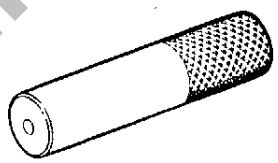
Ⓑ

OTC-27491
OTC-27499
OTC-27508
OTC-27509



Ⓒ

OTC-27487



Ⓓ

L116 357

A–Removing and installing Belleville springs

B–Removing and installing snap rings

C–Installing seals and bushings

D–Driver handle

L116357-LB75030AE-010487

SPECIFICATIONS

Free travel of clutch pedal	19 to 32 mm (3/4 to 1-1/4 in.)

REVERSER-LB75030AE-010487

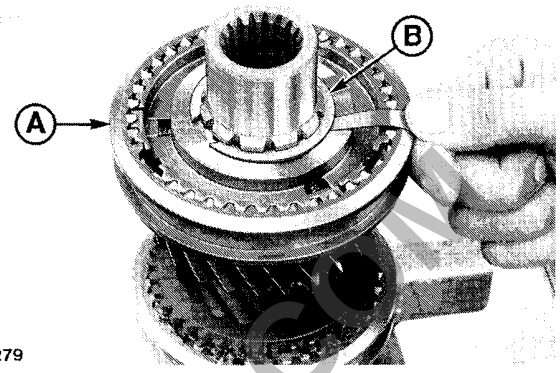
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ASSEMBLING TRANSMISSION DRIVE SHAFT (Contd.)

Install synchronizer assembly (A) so that lube groove of shifter body is aligned with lube bore in shaft.

Install one snap ring (B) to give an axial play of 0 to 0.1 mm (0 to 0.004 in.).

NOTE: Snap ring (A) is available with a thickness of: 1.45 mm (0.057 in.); 1.55 mm (0.061 in.); 1.65 mm (0.065 in.) and 1.75 mm (0.069 in.).



L107279

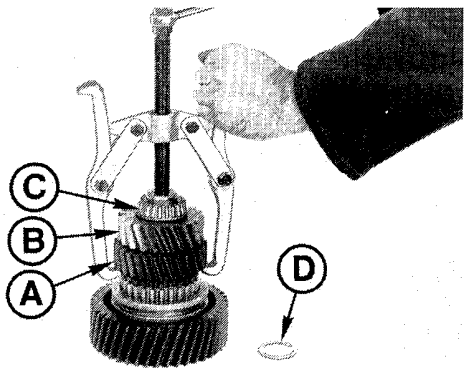
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DISASSEMBLING RANGE SHAFT

After removing snap ring (D)*, bearing (C) can be removed by pulling off reverse gear (A) and drive gear (B)**.

A–Reverse gear
B–Drive gear**
C–Bearing
D–Snap ring*

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



L107270

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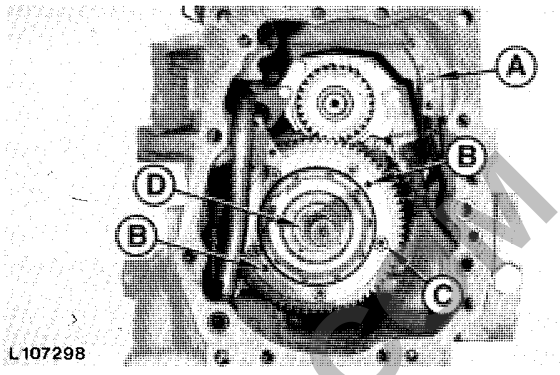
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REMOVING PTO CLUTCH

Push gear ring through bores (B) from clutch hub with two hex. socket screws (C).

Remove snap ring (D) and pull clutch drum from shaft.

Remove connector (A).

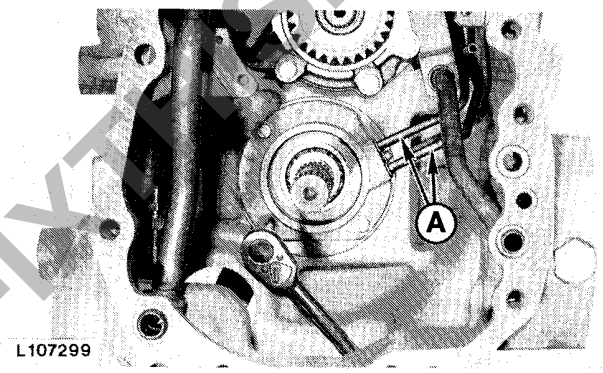


L107298

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REMOVING OIL MANIFOLD WITH PTO BRAKE

Remove oil lines (A) and oil manifold.



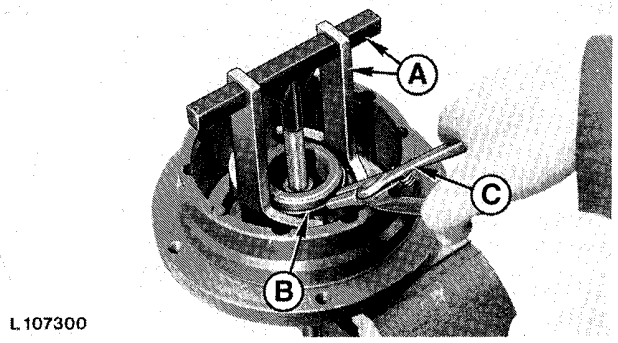
L107299

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REMOVING DISK CLUTCH COMPRESSION SPRING

Remove clutch hub with clutch disks.

Using special tool JDT-24A (A) compress compression spring and remove snap ring (B) using special tool JDT-1 (C).



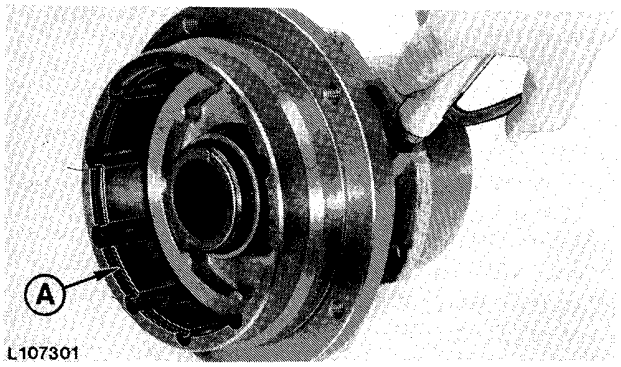
L107300

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REMOVING PTO CLUTCH PISTON

Remove piston from clutch drum with compressed air.

NOTE: Carefully guide piston seal ring past snap ring groove (A).



L107301

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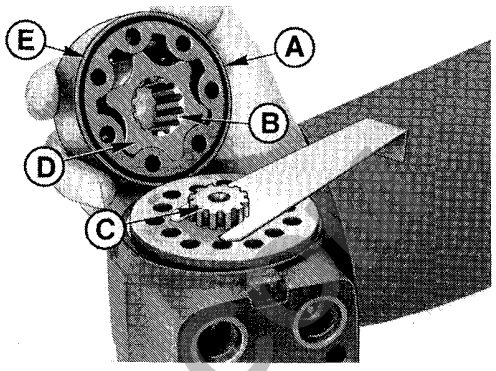
ASSEMBLING METERING UNIT

Install rotor (D) and stator (A) so that the chamfered side (B) faces the drive shaft (C).

Coat seal rings (E) of stator (A) with grease.

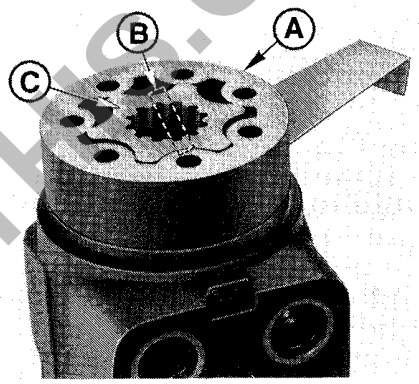
A–Stator
B–Chamfer
C–Drive shaft
D–Rotor
E–Seal ring

IMPORTANT: Rotor (B) and cross pin (C) must be positioned as shown to ensure reliable functioning of steering system.



L112285

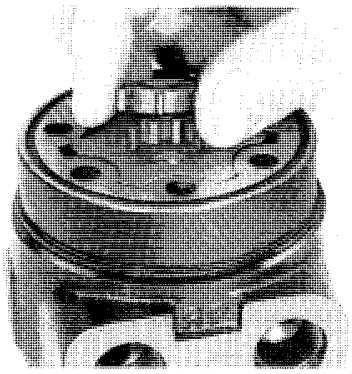
A–Stator
B–Cross pin
C–Rotor



L112286

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INSTALLING SPACER RING IN ROTOR



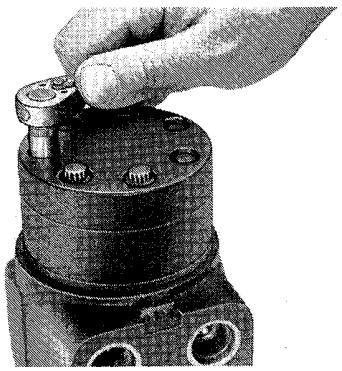
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INSTALLING METERING UNIT COVER

Tighten twelve-point screws crosswise to:

First stage . . . . . 10 to 15 Nm (7 to 11 ft-llb)
Second stage . . . . . 18 to 23 Nm (13 to 17 ft-lb)



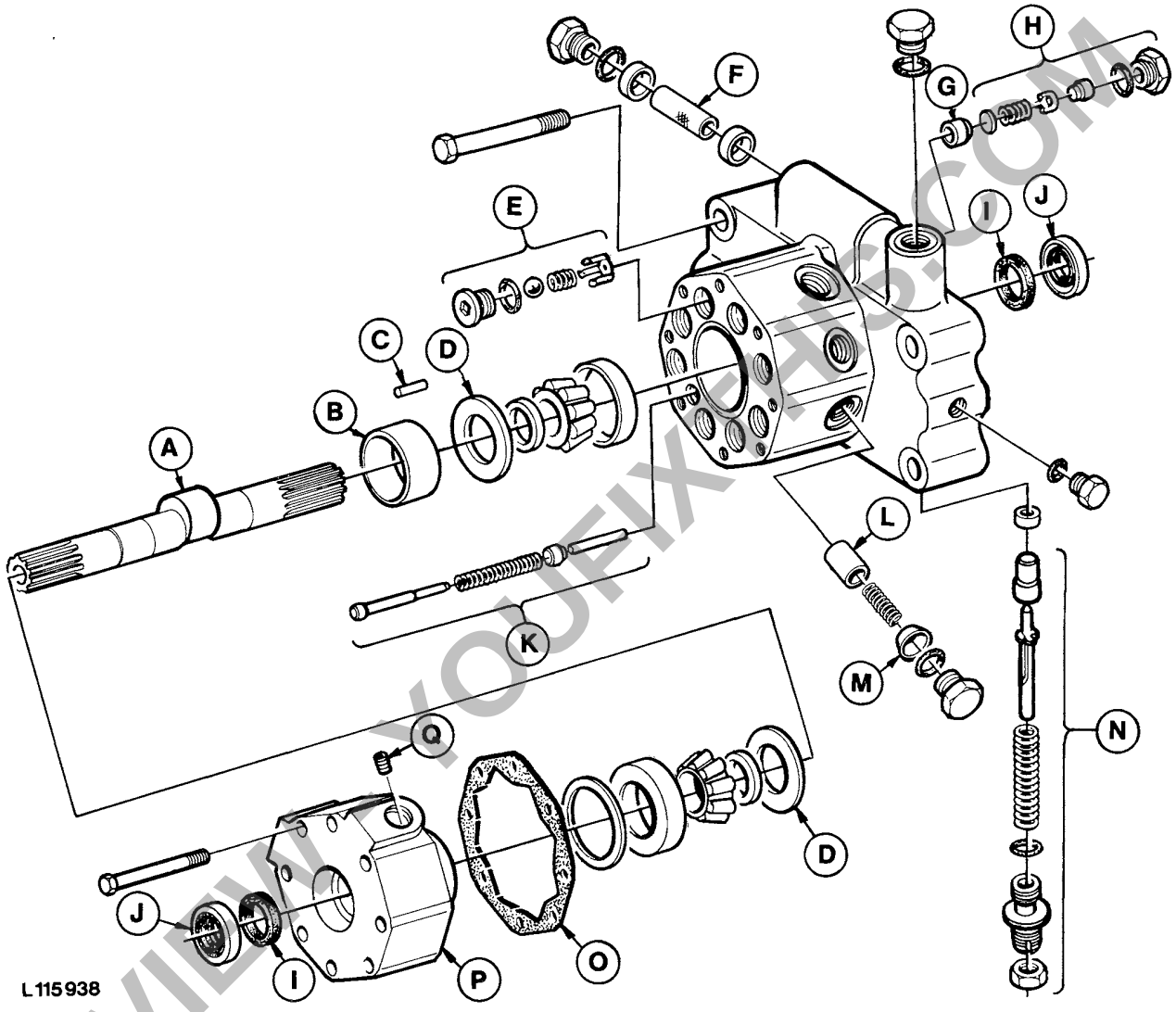
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HYDRAULIC PUMP (23 cm³; 1.4 cu.in.), EXPLODED VIEW (WITH THROUGH DRIVE)



A–Pump shaft
B–Race
C–Needle bearing (33 used)
D–Thrust washer
E–Inlet valve (8 used)
F–Filter screen
G–Valve seat (8 used)
H–Discharge valve (8 used)
I–Seal ring
J–Oil seal
K–Crankcase outlet valve
L–Piston (8 used)
M–Protective sheath (8 used)
N–Stroke control valve
O–Gasket
P–Pump cover
Q–Orifice plug

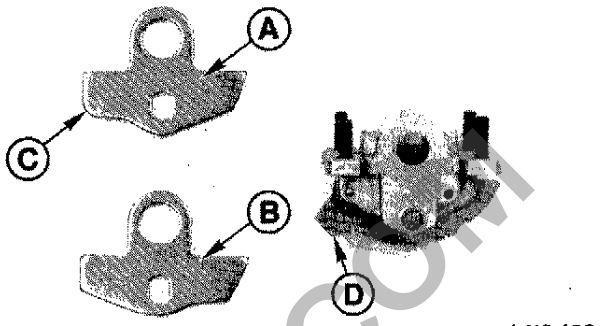
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9. Install regular cam (A) and float cam (B). Regular cam can be identified by beveled corner (C).

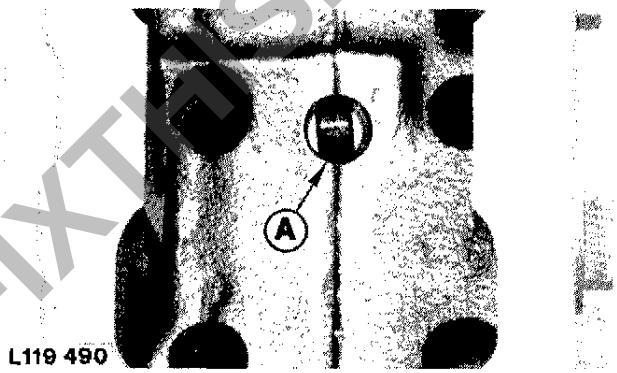
A–Regular cam (bottom)
B–Float cam (top)
C–Beveled corner
D–Float stop of detent cam



L119 489

L119489-LB67030AE-010688

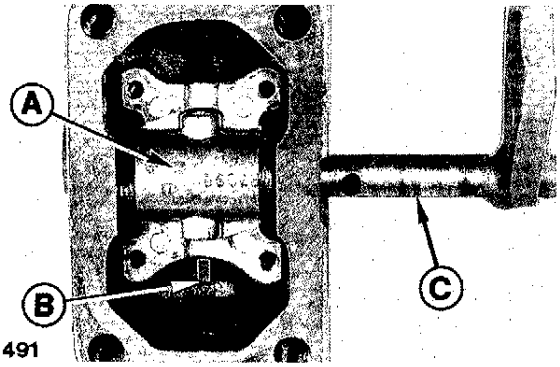
10. Install and align detent cam follower (A). Start rocker shaft into the same side of housing as previously removed.



L119 490

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11. Install rocker assembly (A) noting relationship of detent cam and detent cam follower. Slide shaft (C) through rocker assembly.



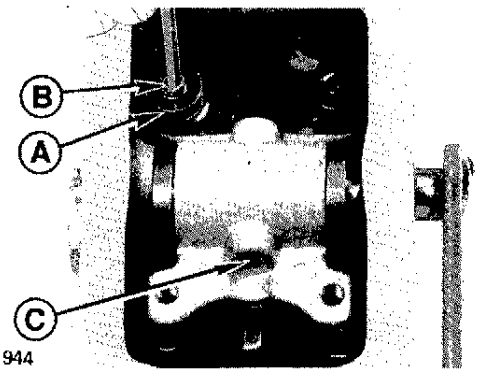
L119 491

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12. Install spring pin (C).

13. Install cam adjusting screws (B) just through rocker (if removed). Install keepers (A) on cam adjusting screws.

14. Recheck alignment of detent cam follower to detent cam.



L104 944

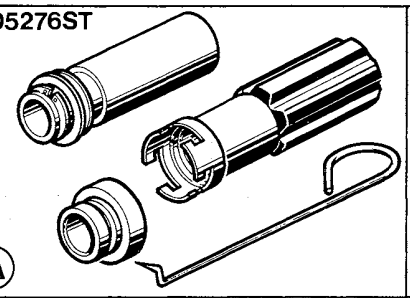
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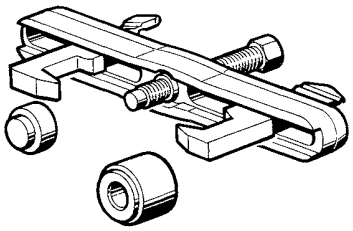
SPECIAL TOOLS

D05276ST



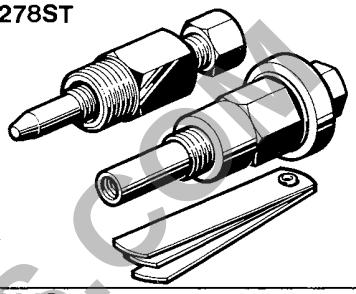
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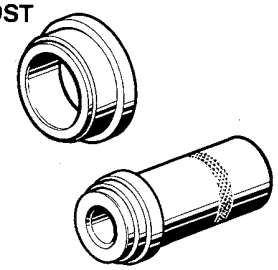
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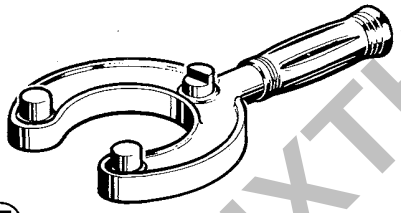
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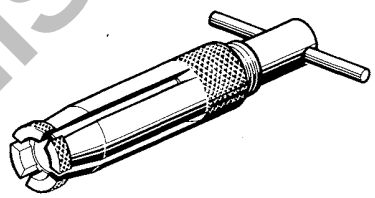
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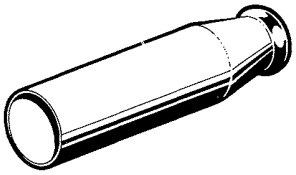
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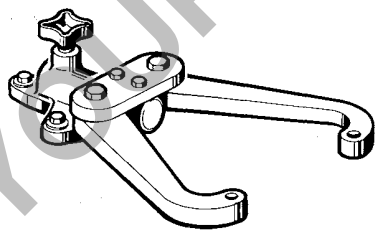
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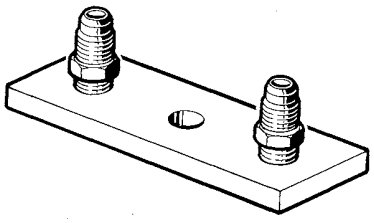
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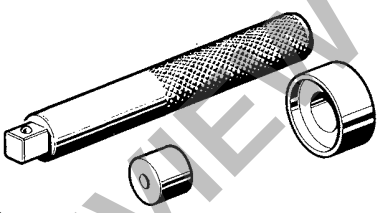
H

D05275ST



I

JDST26-4



J

L125247

A–Removal and installation of compressor main shaft seal
B–Removal and installation of compressor pulley
C–Removal and installation of compressor clutch
D–Installing drive belt pulley and compressor bearing
E–Removal and installation of compressor lock nut
F–Removal and installation of compressor ceramic seal seat
G–Installing compressor main shaft seal
H–Clamping compressor
I–Testing compressor
J–Installing front and rear bearing shields of compressor

NOTE: Tools (A to G) are part of tool kit D05273ST.

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