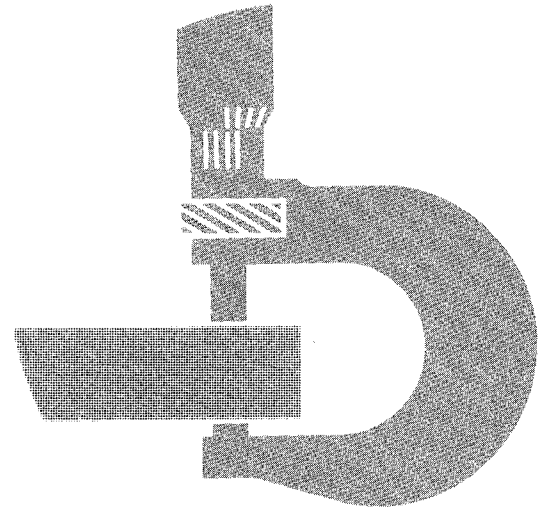


**2355, 2555,  
2755 and 2855N  
Tractors**

**TECHNICAL  
MANUAL**



**John Deere Werke Mannheim  
TM4434**

Litho in U.S.A. (Nov-89)

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

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INHALT-LB701AE-011088

## SECTION CONTENTS IN GROUPS – REPAIR

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### 90 – OPERATOR'S STATION

- 05 – Safe handling of refrigerants
- 06 – Servicing air conditioning system
- 07 – Compressor (up to tractor Serial No. 663 473L)
- 08 – Compressor (from tractor Serial No. 663 474L)
- 09 – Components of air conditioning system
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- 15 – Operator's seats
- 20 – SOUND-GARD Body
- 25 – 2-post roll guard
- 30 – 2-post telescopic roll guard

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## SPECIFICATIONS

### SERIAL NUMBER PLATES

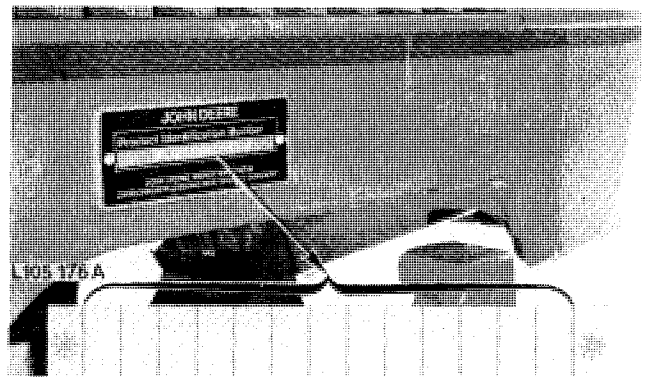
The following illustrations show the serial number plates for tractor major components. The letters and figures on these plates are required for warranty claims and when ordering replacement parts.

TECHDA-LA71005AE-180385

### PRODUCT IDENTIFICATION NUMBER PLATE

The product identification number plate is located on right-hand side of front axle carrier.  
The chassis number is stamped in front axle carrier next to the identification number plate.

*NOTE: When ordering tractor parts (excluding engine parts), quote all letters and figures of serial number stamped on this plate.*

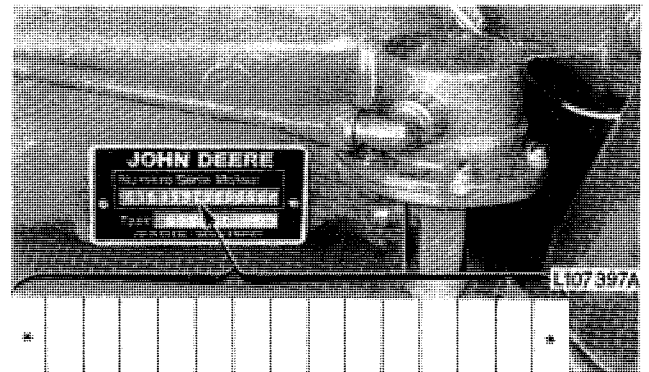


L105176A-LB71005AE-011088

### ENGINE SERIAL NUMBER PLATE

The engine serial number plate is located on right-hand side of engine block.

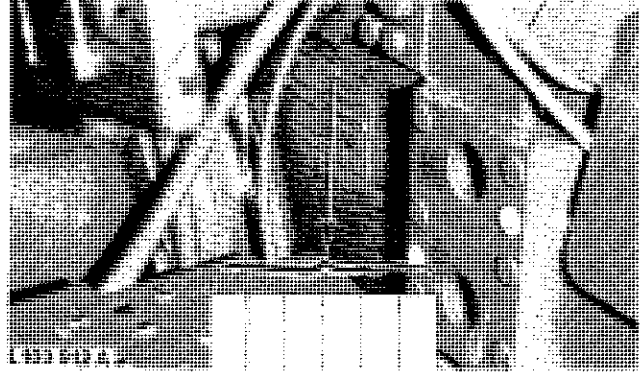
*NOTE: The engine serial number plate shows the engine type as well as the engine serial number. When ordering engine parts, quote all figures stamped on this plate.*



L107397A-LB41005AE-010687

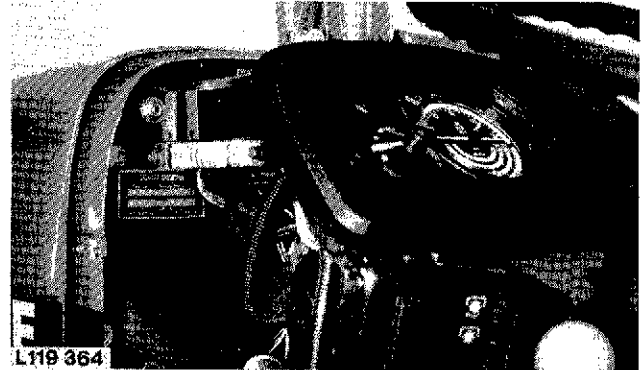
**TRANSMISSION SERIAL NUMBER PLATE  
(Tractors Without SOUND-GARD® Body)**

The transmission serial number plate is located on right-hand side of transmission case.



From Tractor Serial No. 617 678L, an additional serial number plate is attached to left-hand side of dash.

*NOTE: In addition to the transmission serial number and transmission type, this serial number plate also specifies differential and front wheel drive gear ratios.*

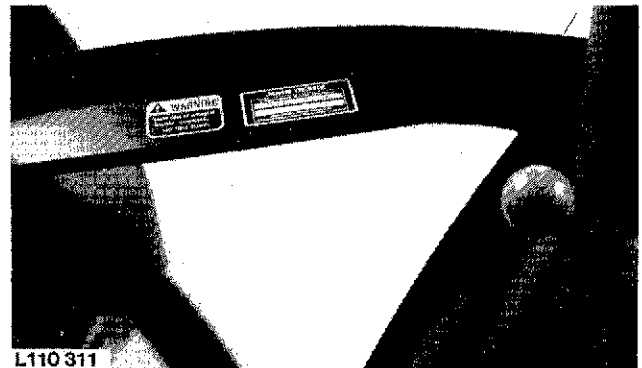


L103912A, L119364-LB71005AE-011088

**TRANSMISSION SERIAL NUMBER PLATE  
(Tractors With SOUND-GARD Body)**

The transmission serial number plate is located on right-hand crossmember of SOUND-GARD body and on right-hand side of transmission case.

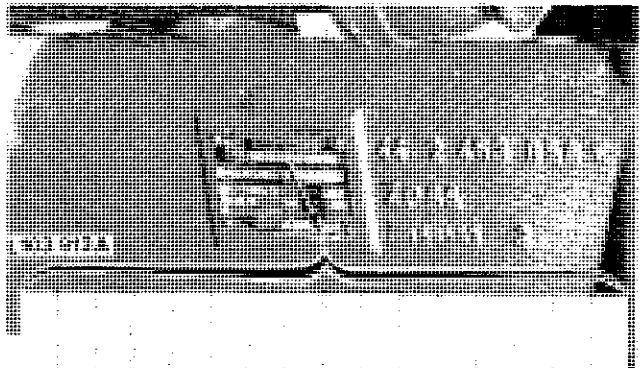
*NOTE: In addition to serial number of transmission and transmission type, this serial number plate also specifies differential and front wheel drive gear ratios.*



L110311-LA91005AE-000386

**FRONT WHEEL DRIVE AXLE SERIAL  
NUMBER PLATE**

The front wheel drive axle serial number plate is located on rear of right-hand axle half.

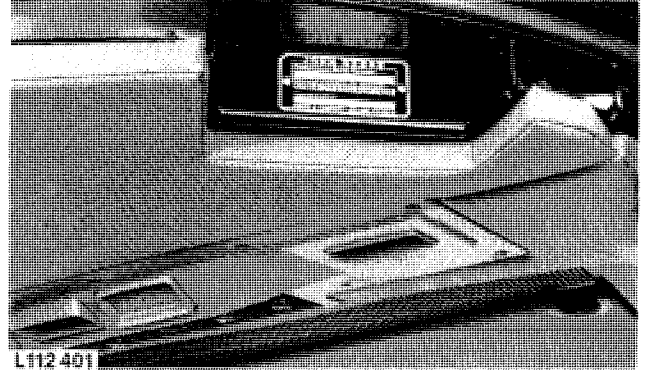


L103913A-LA71005AE-000385

## Specifications

### SOUND-GARD BODY SERIAL NUMBER

With operator's cab door open, cab serial number plate is visible in roof recess as you enter the cab.



L112401-LA91005AE-051185

### MODEL SERIAL NUMBERS

Fuel injection pump, fuel injection nozzles, alternator, starting motor, hydrostatic steering valve, air conditioning system compressor (when equipped) and hydraulic pump have serial numbers to facilitate identification of different makes of a given unit.

TECHDA-LA71005BE-180385

*Specifications*

**ENGINE**

Number of cylinders .....	4
Cylinder liner bore .....	106.5 mm (4.19 in.)
Stroke .....	110 mm (4.33 in.)
Displacement .....	3920 cm <sup>3</sup> (239 cu.in.)
Compression ratio .....	17.8 : 1
<b>Max. torque</b>	
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

TECHDA-LB71005AE-010487

*Specifications*

Engine speed for PTO operation

Synchronized transmission

- 540 rpm PTO ..... 2070 rpm
- 1000 rpm PTO ..... 2172 rpm

Collar shift transmission

- 540 rpm PTO ..... 2075 rpm

PTO horsepower at engine rated speed

- According to SAE J 1349

- 2355 ..... ..
- 2555 ..... ..
- 2755 ..... ..
- 2855N ..... ..

**Tractors with:**

**Synchronized Transmission**

**Collar Shift Transmission**

- |               |               |
|---------------|---------------|
| 41 kW (55 hp) | 41 kW (55 hp) |
| 48 kW (65 hp) | 48 kW (65 hp) |
| 56 kW (75 hp) | 56 kW (75 hp) |
| 60 kW (80 hp) |               |

Lubrication system .....

Full internal force feed system with full flow filter

**ENGINE CLUTCH**

- Type .....

Single dry disk clutch with torsion damper or dual dry disk clutch, foot-operated

**COOLING SYSTEM**

- Type .....  
- Temperature regulation .....

Pressurized system with centrifugal pump  
Thermostat and, when equipped, viscous fan drive

**FUEL SYSTEM**

- Type .....  
- Fuel injection pump timing to engine .....  
- Fuel injection pump type .....  
  
- Air cleaner .....

Direct injection  
TDC  
Distributor type with two or four pistons  
  
Dry-type air cleaner with secondary  
(safety) element

\* With engine run in (over 100 hours of operation) and at operating temperature (engine and transmission), measured by means of a dynamometer. Permissible variation  $\pm 5\%$

TECHDA-LB71005AE-011088



*Specifications*

**ELECTRICAL SYSTEM**

- Batteries ..... 2 x 12 volts, 55 Ah or 66 Ah
- Alternator with external regulator ..... 14 volts, 55 or 85 amps.
- Starting motor ..... 12 volts, 2.7 kW (3.7 hp)
- Battery terminal grounded ..... negative

**SYNCHRONIZED TRANSMISSION**

- Type ..... Synchronized transmission
- Gear selections ..... 8 forward and 4 reverse
- Gear shifting ..... Two forward ranges and one reverse range;  
Synchronized forward and reverse shifting  
within range

**COLLAR SHIFT TRANSMISSION**

- Type ..... Helical gears
- Gear selections ..... 8 forward and 4 reverse
- Gear shifting ..... Two forward ranges and one reverse range

**HI-LO SHIFT UNIT**

- Type ..... Hydraulic gear reduction unit which can be  
shifted under load with "wet" multiple disk  
clutch and brake packs.
- Travel speed decreases in each gear by ..... Approx. 20 %
- Shifting to normal (Hi) speed ..... Hydraulic
- Shifting to reduced (Lo) speed ..... Preloaded Belleville springs

**REVERSER TRANSMISSION**

- Type ..... Hydraulic gear reduction unit which can be  
shifted under load with "wet" multiple disk  
clutch and brake packs, planetary reverser unit.
- Gear selections ..... 1 to 4
- Increase in reverse gear speeds ..... Approx. 16 %

**CREEPER TRANSMISSION**

- Type ..... Synchronized reduction gear
- Travel speed decrease in low (l) and reverse  
ranges by ..... Approx. 79%
- Shifting in both ranges ..... Mechanically, not under load

TECHDA-LB71005CE-010487



## Specifications

### FRONT PTO

- Type .....	Independent of transmission, can be engaged and disengaged under load
- Control .....	Electric/hydraulic solenoid switch
- PTO speed at an engine speed of: 2172 rpm (counterclockwise) .....	1000 rpm
- PTO clutch .....	Hydraulically operated "wet" disk clutch
- PTO brake .....	Hydraulically operated "wet" disk brake

### FRONT WHEEL DRIVE

- Type .....	Engaged hydraulically under load with "wet" disk clutch
- Control .....	Electric/hydraulic solenoid switch
- Drive engagement .....	Preloaded Belleville springs
- Drive disengagement .....	Hydraulic

### HYDROSTATIC STEERING

- Type .....	Without mechanical linkage between steering valve and front wheels
--------------	--

### POWER STEERING

- Type .....	Hydraulically operated steering linkage
--------------	---

### FOOT BRAKES

- Rear wheel brakes .....	Self-adjusting, hydraulically operated "wet" disk brakes
---------------------------	--

### HANDBRAKE

- Type .....	Mechanically operated band-type locking brake acting on the differential
--------------	--

### HYDRAULIC SYSTEM

- Type .....	Closed, constant pressure system
- System pressure when pump pistons idle .....	16000 kPa (160 bar; 2320 psi)
- Operating pressure .....	14000 kPa (140 bar; 2050 psi)
- Hydraulic pump .....	8-piston pump with variable displacement

TECHDA-LB71005EE-010487

## Specifications

### 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.)

TECHDA-LB7:005BE-011088

Specifications

**CAPACITIES (Contd.)**

– Initial filling (collar shift transmission)	
with Reverser .....	36.0 liters (9.5 U.S.gal.)
without Reverser	
– 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.)
– 2855N .....	3.25 liters (0.86 U.S. gal.)
– Wheel hub housing, each .....	0.75 liters (0.2 U.S. gal.)
 Hydraulically operated clutch system .....	250 cm <sup>3</sup> (8.75 fl.oz.)
 Air conditioning system .....	1.8 kg (4 lb)

TECHDA-LB71005CE-011088

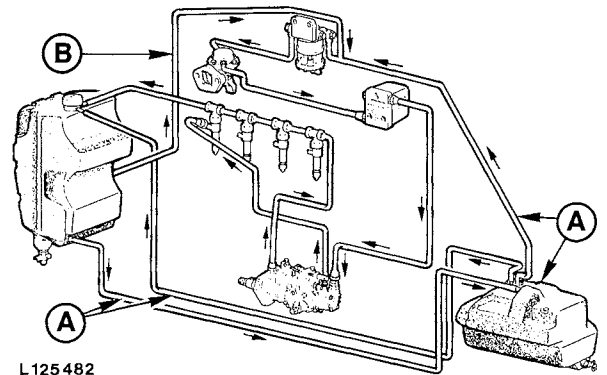
## PREDELIVERY INSPECTION

*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

L125482-LB31010AE-010888

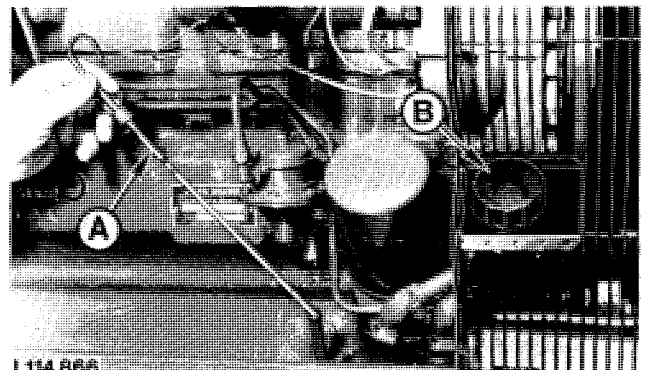
### EXAMINING ENGINE FOR LEAKS

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

L114866-LB21010AE-010886

## CHECKING COOLANT LEVEL

### Tractors Without Expansion Tank

Coolant must reach up to marker plate in radiator.

### On All Tractors

The cooling system is filled with JOHN DEERE engine coolant at the factory. It protects the engine against corrosion and against frost down to  $-36^{\circ}\text{C}$  ( $-35^{\circ}\text{F}$ ).

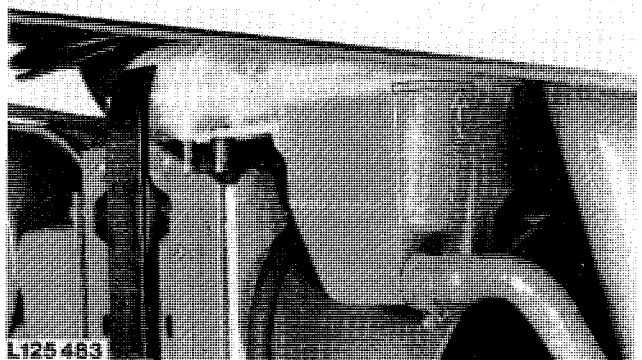
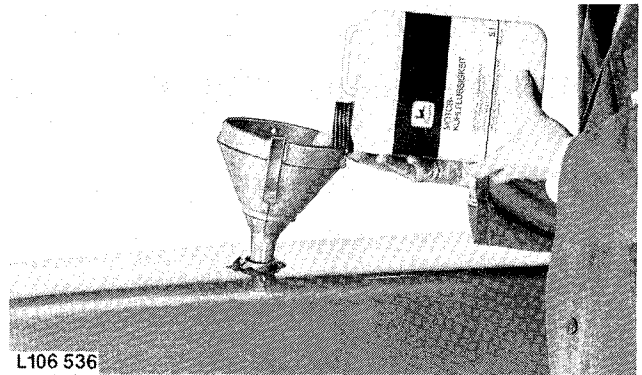
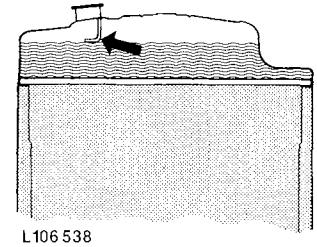
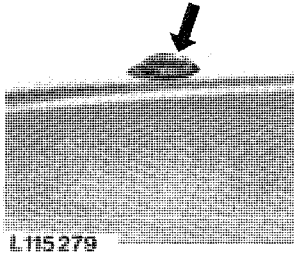
**IMPORTANT: Use only JOHN DEERE engine coolant in the cooling system, independent of the season.**

If JOHN DEERE engine coolant is not available, use a mixture of 50% ethylene-glycol antifreeze/corrosion inhibitor and 50% clear, soft water. This guarantees engine protection against corrosion and frost down to  $-36^{\circ}\text{C}$  ( $-35^{\circ}\text{F}$ ).

Never use any cooling system sealing additives.

### Tractors With Expansion Tank

Coolant level should never drop below "MIN" mark.



L115279,L106538,L106536,L125483-LB31010AE-010888

## CHECKING ENGINE IDLE SPEEDS

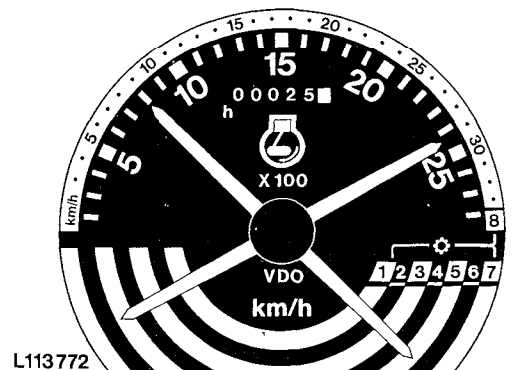
### Tractors with Synchronized Transmission

Warm up engine to operating temperature and check speeds.

Slow idle speed: 750 to 850 rpm

Fast idle speed: 2410 to 2510 rpm

See Section 30, Group 15, for adjustment.



L113772-LB31010AE-010287

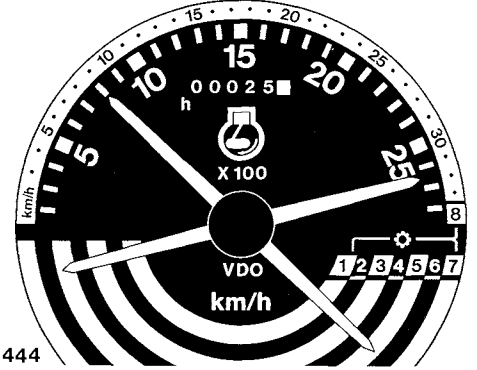
### Tractors with Collar Shift Transmission

Warm up engine to operating temperature and check speeds.

Slow idle speed: 750 to 850 rpm  
Fast idle speed: 2610 to 2660 rpm

See Section 30, Group 15, for adjustment.

L113 444

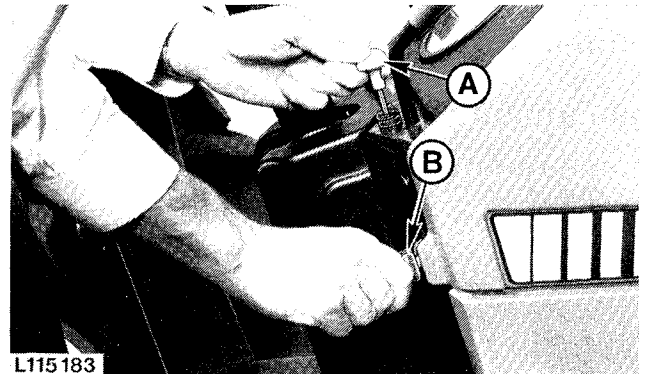


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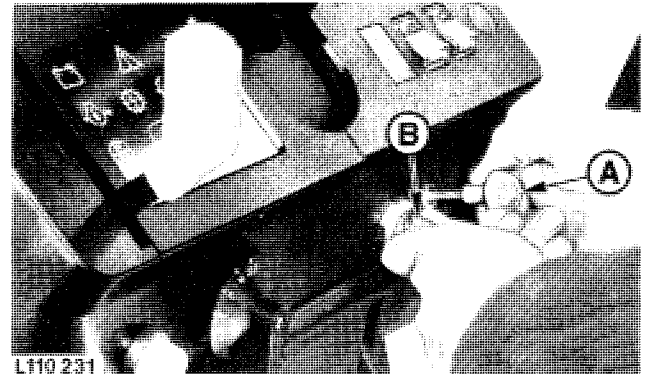
### CHECKING FUNCTION OF ENGINE SHUT-OFF CABLE

Move hand throttle lever to idle position and run engine for 1 to 2 minutes at slow idle speed.

Completely pull out shut-off knob (A), making sure that engine stops immediately. Switch off main switch (B).



L115183



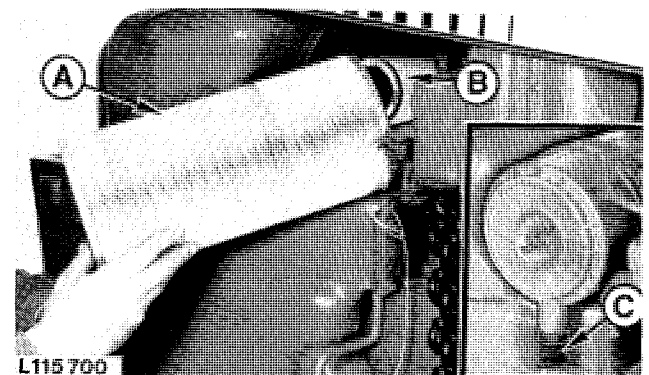
L110 231

L115183,L110231-LB71010AE-010487

### CHECKING AIR CLEANER AND SAFETY ELEMENTS FOR CORRECT INSTALLATION

Make sure that dust unloading valve (C) (rubber cap) is installed on air cleaner.

- A-Air cleaner element
- B-Safety element
- C-Dust unloading valve

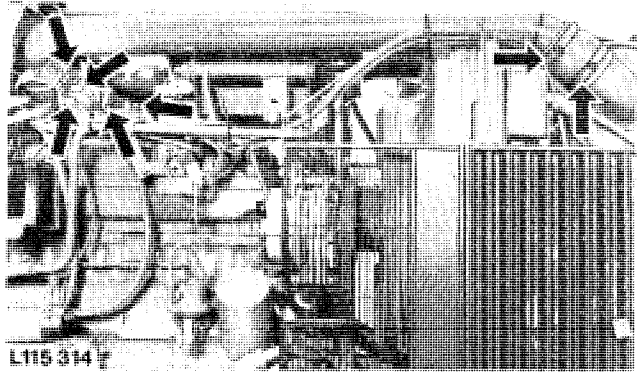


L115 700

L115700-LB61010AE-011086



### CHECKING HOSE CLAMPS OF AIR INTAKE SYSTEM FOR TIGHTNESS



L115 314

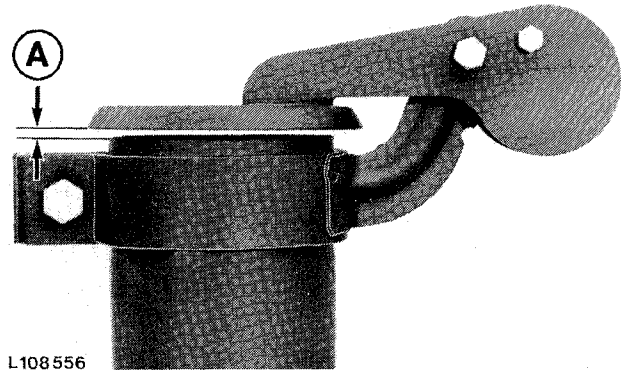
L115314-LB71010AE-010487

### INSTALLING EXHAUST STACK

Up To Tractor Serial No. 629 372L

Install weather flap with flap hinge at the rear (as seen in direction of forward travel).

Distance (A) between cap and stack end must be 2 mm (5/64 in.).



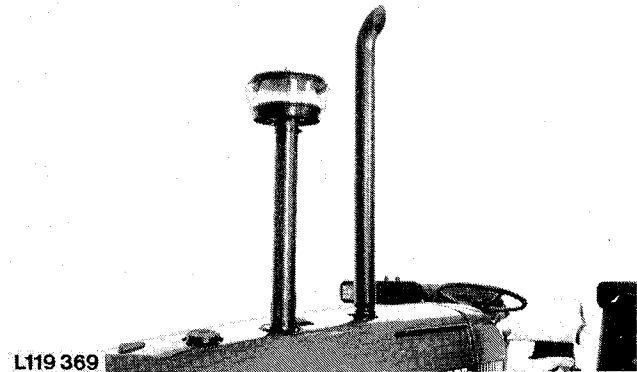
L108 556

L108556-LB21010AE-010488

From Tractor Serial No. 629 373L

Tractors with SOUND-GARD Body: Install exhaust stack with opening facing to the rear.

Tractors without SOUND-GARD Body: Install exhaust stack with opening facing to the left.



L119 369

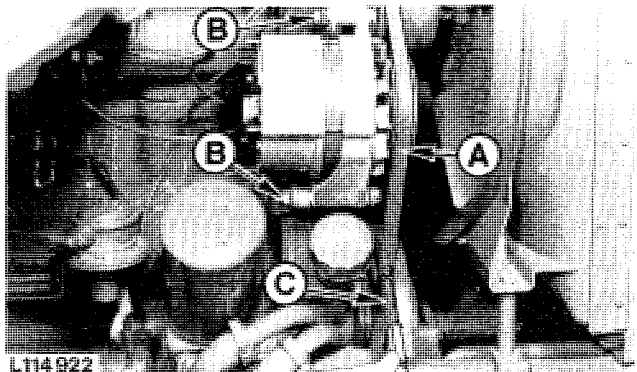
L119369-LB61010AE-010688

### CHECKING FAN BELT TENSION

Using belt tension gauge JDST-28 (C) check tension of fan belt.

Fan belt should have 19 mm (3/4 in.) flex with 90 N (20 lb) pull midway between crankshaft and alternator or water pump.

A-Fan belt  
B-Attaching nut  
C-Belt tension gauge (JDST-28)



L114 922

L114922-LB21010AE-010886

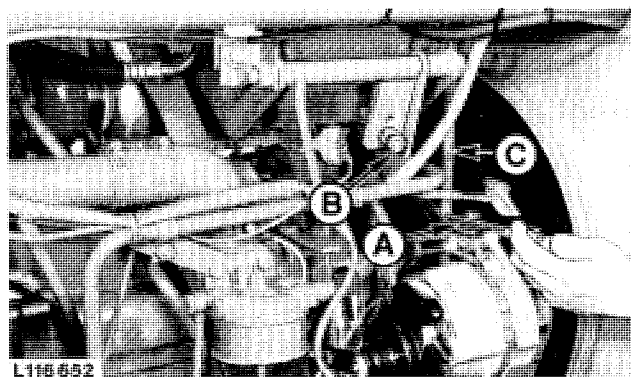
## CHECKING COMPRESSOR BELT TENSION (Tractors With Air Conditioning System)

Using belt tension gauge JDST-28 (A) check compressor belt tension.

Compressor belt should have 19 mm (3/4 in.) flex with 60 N (13 lb) pull midway between both pulleys.

**A**—Belt tension gauge  
(JDST-28)

**B**—Adjusting screw  
**C**—Compressor belt



L116652-LB71020AE-010487

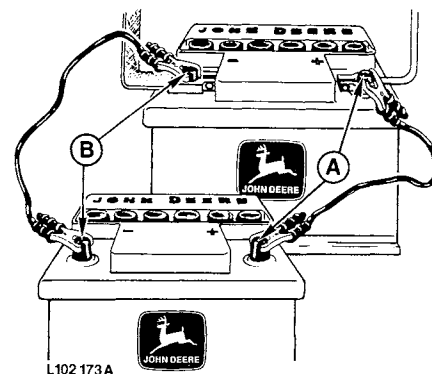
## IMPORTANT NOTES

If a booster battery is to be used for charging and the tractor run for a short time without battery, do not, under any circumstances, interrupt the circuit by switching off the main switch before stopping the engine by means of the fuel pump shut-off cable. It is further recommended that additional loads (lights) be switched on while the engine is running. Do not run engine at speeds above 1000 rpm. Insulate battery end of disconnected starter cable properly to avoid damage to alternator and regulator.

Do not connect ground strap of booster battery to the SOUND-GARD Body.

Connect batteries or battery charger with the proper polarity (“+” and “-“). Incorrectly connected batteries will result in the immediate destruction of the rectifier diodes.

**A**—Positive terminals  
**B**—Negative terminals



L102173A-LB71010AE-010487

**Thank you very much for  
your reading. Please Click  
Here. Then Get COMPLETE  
MANUAL. NO WAITING**



**NOTE:**

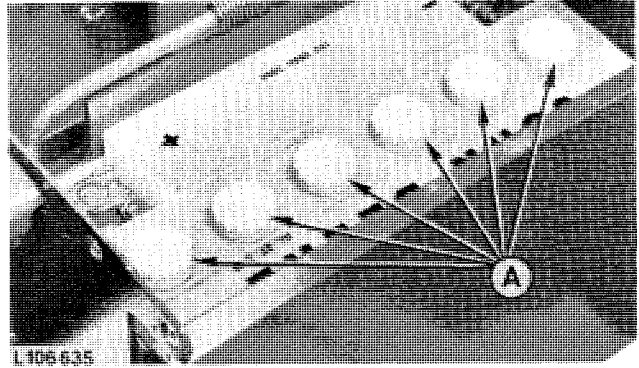
**If there is no response to  
click on the link above,  
please download the PDF  
document first and then  
click on it.**

### CHECKING BATTERIES

Check battery terminals and cable ends and, if necessary, clean and coat them with petroleum jelly.

Check electrolyte level in each battery cell. If necessary, add distilled water to bring level above cell plates.

A-Filler caps

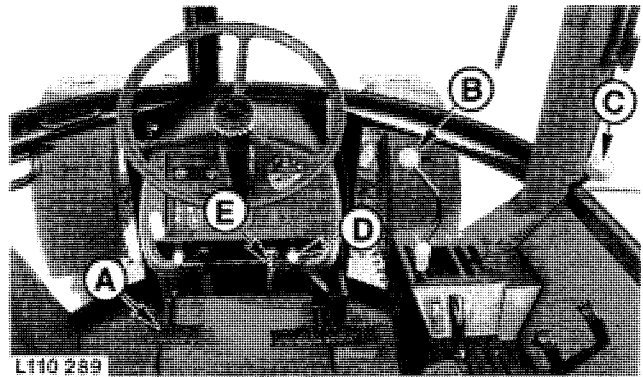


L106635

L106635-LA71010AE-091184

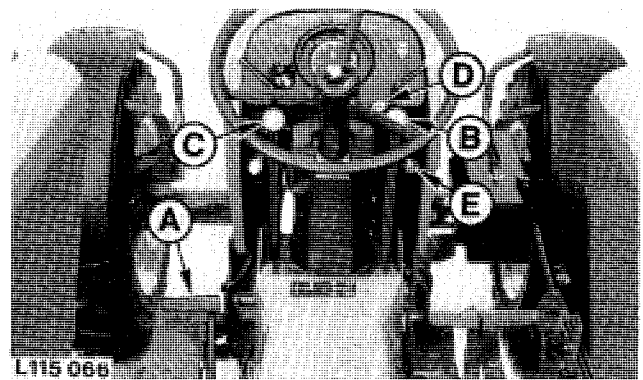
### CHECKING NEUTRAL START SYSTEM

Depress clutch pedal (A).  
 Move gear shift lever (B) to neutral position.  
 Move range shift lever (C) to any range position.  
 Pull out engine shut-off knob (D).  
 Turn main switch (E) to start position.  
 Starter should NOT crank.



L110 289

A-Clutch pedal  
 B-Gear shift lever  
 C-Range shift lever  
 D-Engine shut-off knob  
 E-Main switch



L115 066

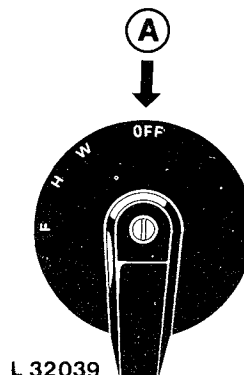
L110289,L115066-LB71010AE-010487

### CHECKING LIGHTING SYSTEM

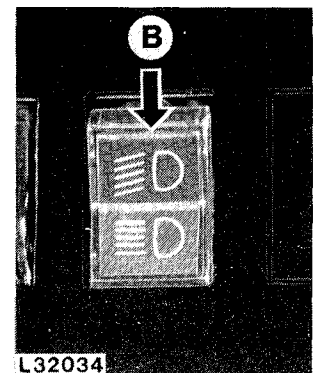
See Operator's Manual.

Check adjustment of headlights and adjust, when necessary.

A-Light switch  
 B-Dimmer switch



L 32039



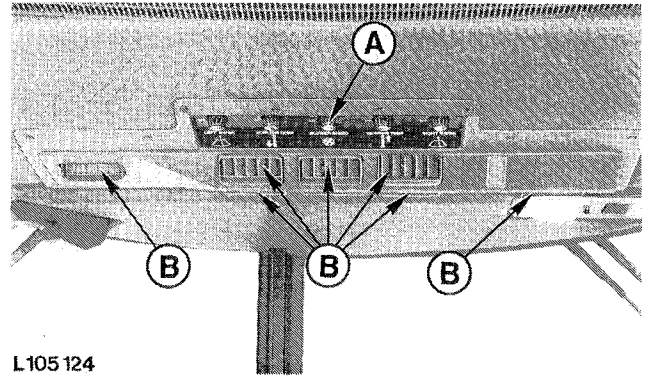
L32034

L32039,L32034-LB61010AE-011086

### CHECKING FAN SWITCH (With SOUND-GARD Body)

Open air louvers (B).

Check function of three-stage cab ventilation and heater fan switch (A).

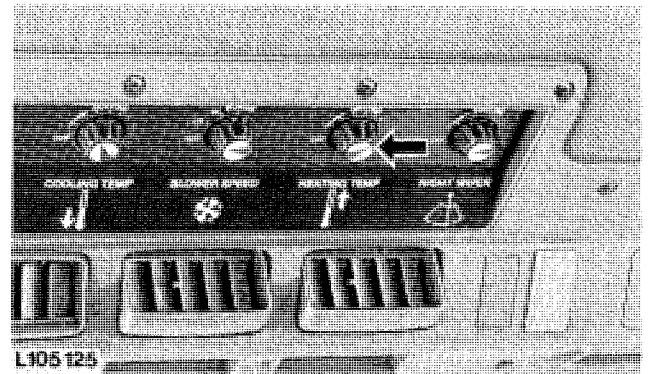


L105 124

L105124-LB61010AE-011086

### CHECKING HEATER CONTROL SWITCH (With SOUND-GARD Body)

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

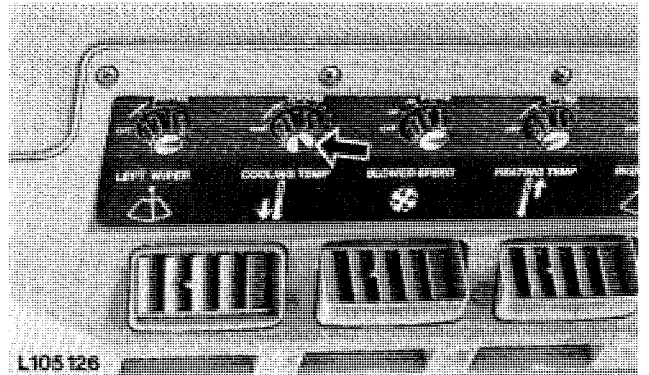


L105 125

L105125-LB61010AE-011086

### CHECKING THERMOSTAT SWITCH (Tractors With Air Conditioning System)

With fan switched on, turn infinitely adjustable switch to the right and wait until cool air enters cab through the air louvers.



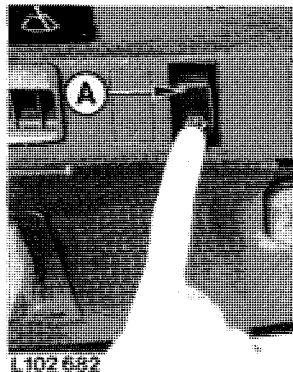
L105 126

L105126-LB61010AE-011086

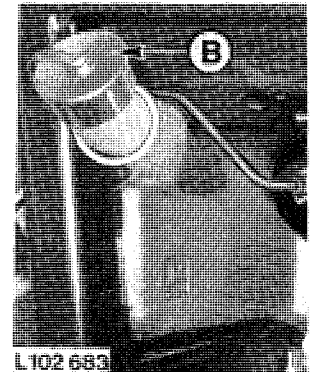
### CHECKING WINDSHIELD WASHER SYSTEM (With SOUND-GARD Body)

Operate tumbler switch (A) of washer system.

Add a suitable commercially available anti-freeze solution to reservoir (B) if temperature is likely to drop below freezing point.



L102 682



L102 683

L102682,L102683-LB61010AE-011086

### CHECKING FUNCTION OF WINDSHIELD WIPERS (With SOUND-GARD Body)

Check both windshield wiper speeds by turning both two-speed switches.

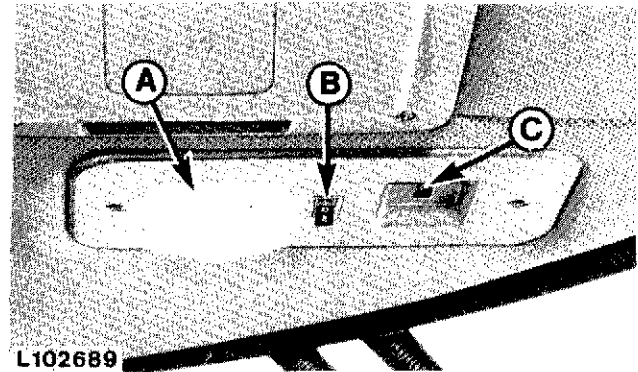


L102684-LB61010AE-011086

### 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-LB61010AE-011086

### CHECKING INSTRUMENTS AND INDICATOR LIGHTS

See Operator's Manual.

INSPEK-LB21010FE-010886

## CHECKING TRANSMISSION/HYDRAULIC SYSTEM OIL LEVEL

**IMPORTANT:** Check oil level. Check prior to starting engine after long shut-down period when oil is cold.

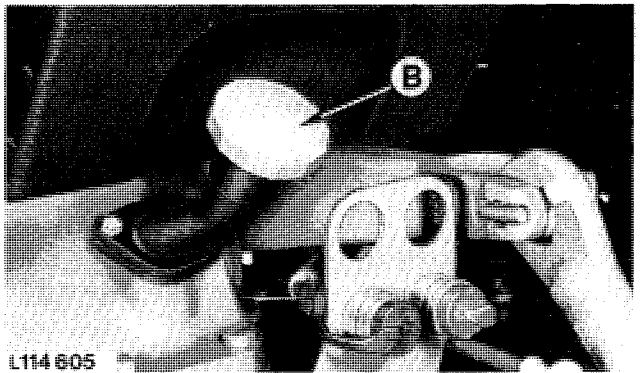
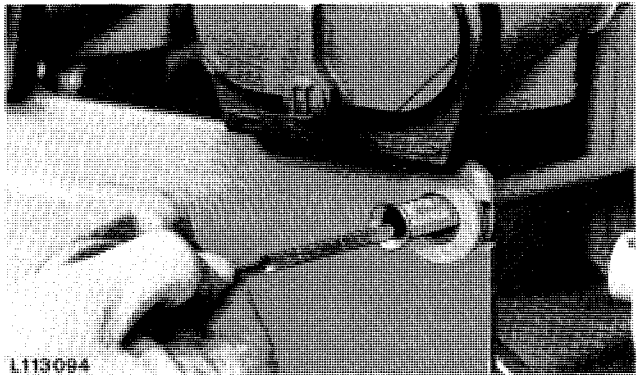
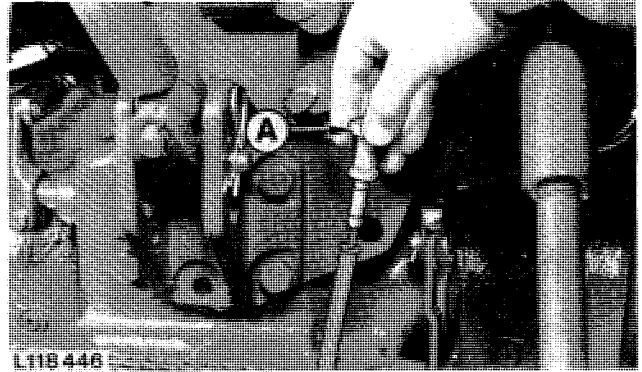
Park tractor on level ground. Completely lower rock-shaft. Remove dipstick (A) and wipe clean. Reinsert dipstick, again remove and check oil level.

*NOTE:* If oil level is below top mark, top up with oil to bring level up to top mark on dipstick through filler neck (B).

**IMPORTANT:** After having topped up transmission with oil, wait for a period of five minutes before rechecking oil level with dipstick.

If necessary, add JOHN DEERE HY-GARD® Transmission and Hydraulic Oil or equivalent (see Group 15) to bring oil level to top mark on dipstick.

*NOTE:* Types of oil not meeting JOHN DEERE specifications will not give satisfactory service and may result in eventual damage.

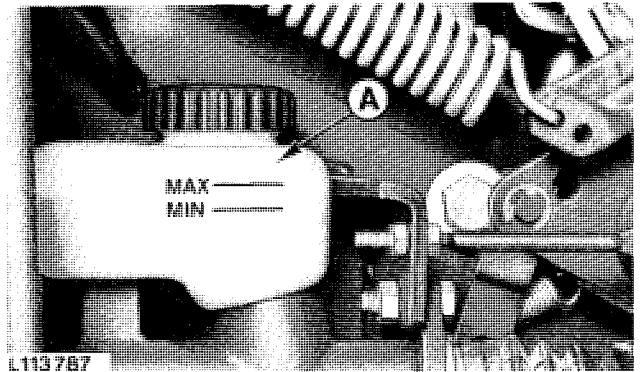


L118446,L113094,L114605-LB71010AE-011088

## CHECKING LEVEL OF BRAKE FLUID (With Hydraulically Operated Clutch)

Level of fluid should be between the marks "MIN" and "MAX". When necessary add brake fluid type FMVSS 116 DOT 4.

A-Reservoir



L113787-LB61010AE-000688