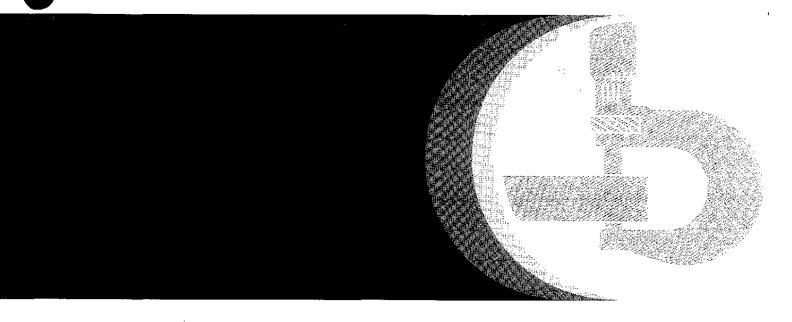
1350, 1550, 1750, 1850, 1850N, 1950 and 1950N Tractors





John Deere Werke Mannheim TM4437(Jan-91) Printed in Germany (English)

SUMMARY OF MOST II FOR 1350, 1550, 1750, 1850, 1	SUMMARY OF MOST IMPORTANT SPECIFICATIONS FOR 1350, 1550, 1750, 1850, 1850 N, 1950 and 1950 N TRACTORS	SUMMARY OF MOST II FOR 1350, 1550, 1750, 1850, 1	SUMMARY OF MOST IMPORTANT SPECIFICATIONS 1350, 1550, 1750, 1850, 1850 N, 1950 and 1950 N TRACTORS
NOTF For further specifications, see relevant Technical	- Endine with turbocharger	HI-LO SHIFT UNIT	TRANSMISSION OIL PUMP
Manual.		Operating pressure at 1500 rpm 1050 kPa	Minimum delivery of transmission
	setting	10	oil pump at 2000 rpm:
	(233 - 251 D8r;) 3700 - 3780 nsi)	Operating pressure of	Oil temperature 40°C (100°F) without Hill o shift unit 34 liters (min 79 mm)
varve crearance I (engine hot or cold):		(5 to 7 t	ft unit 4
Intake valves	checking, min	0	with mid PTO
Exhaust valves	Opening pressure with used nozzule		without Hi-Lo shift unit
Minimum engine oil pressure	- Engine without turbocharger	SYNCHR ONIZED TRANSMISSION	e)
temperature	Pressure for	Differential Drive Shaft	with mid PTO
.)	setting	le with	Minimum flow to hydraulic pump
Compression	(20/ - 2.13 Udf.) 3000 - 3080 psi)	New Dearings U./5 t0 1.5 Nm (5.5 to 13 in-16)	at 2000 rpm with: Oil temperature 40°C (100°E)
(21 Dar; 300 psi) Maximum difference in pressure	Pressure for	ecial nu	without Hi-Lo shift unit
	n	differential drive shaft140 Nm (100 ft-lb)	ð
(3.5 bar; 50 psi)	(198 bar; 2880 psi)		with mid PTO
Maximum blow-by at crankcase	- Engine with turbocharger	Hange Shaft Preised of taner roller hearings 005 to 0 10 mm	
Vent tube	Pressure for setting	9	with Hi-Lo shift unit
if turbocharger			
in intake manifold at	8		Difference between delivery of transmission
rated engine speed 60 kPa		Preioad of notiow arrive shart 0,005 - 0,10 mint	oil pump and flow to hydraulic pump,
(0.5 Dar, 3 ps) Rocker arm shaft to cylinder head 50 Nm (35 ft-lb)	checking, min.	1 to 2 h	
Colinder head to cylinder block	Maximum difference in	tial	muepenaent FTO up to / Intels/Innit, (1.0 gpm)
(cap screws dipped in oil)	-		
1st step	(7 ba	(0.001 to 0.005 in.)	
2 nd step		Hex. nut of transmission hollow drive shaft 100 ft-lb)	cap screws
Procker cover to cylinder head 10 Nm (7 ft-lb)		quili	I ransmission oil pump to clutch housing
Connecting rod cap screws	BATTERIES	:	:
(dipped in oil)	Cold state testing current	Drahood of bearings	DIFFERENTIAL
wain bearing caps to cylinder block 120 Nm (85 ft-lb)			Preload of taper roller bearings 0.05 to 0.13 mm
Fliwheel to crankshaft		Grooved nut 140 Nm (100 ft-lb)	(0.002 to 0.005 in.)
Front axle carrier to engine	– 88 Ah battery 395 атрs.		pur
	ENGINE SINGLE-STAGE CLUTCH		
(Engines with turbocharger)	Thickness of a new disk		FINAL DRIVES
UII pan to cluton nousing / /Engines with furbocharger) 230 Nm (170 ft-lb)	Wear limit 7 mm (0.26 in.)	COLLAR SHIFT TRANSMISSION	To measured rolling drag torque
Clutch housing to engine	Maximum permissible warpage	Ditterential Drive Shaft	of final drive housing (before
Side frames to front axle carrier 230 Nm (170 ft-lb)	of clutch disk 0.5 mm (0.02 in.)	Total thickness of shim pack	di 8
Side frames to flywheel housing 230 Nm (170 ft-lb)	Flywheel to crankshaft	to adjust cone point 0.5 mm (0.02 in.)	
	Clutch to flywneel	d play	Final drives to transmission case 120 Nm (85 ft-ID)
		before adjusting preload0.05 mm (0.002 in.)	INDEPENDENT PTO
Copening pressure or a new or re- conditioned nozzla with new sprind	ENGINE DUAL-STAGE CLUTCH	measured end play	Oberation pressure at 1500 rpm
- Fording without turbocharder	Thickness of a new disk	ler bearings	(10.5 bar
		ie with	
setting	(0.351	specified preload	
	- PTO clutch	(2.10.13 little antial	heavy dury type (540 u/min.)
3200 - 3280 psi)	67.0)	drive shaft	drum
Pressure for checking min	of clutch disk		Bearing quill to transmission
(218 bar; 3160 psi)	thaft	sion Drive Shaft	case
	Clutch to flywheel	End play	
-	Clutch pedal free play 25 mm (approx. 1 in.)	Transmission drive shaft	
		bearing quill	
TN 1107 (his 00) A 0 Bristod is Germani	I Tractore- IDWM	TM-4437 (.Ir.in-90) A 9 Printed in Germany	TractorsIDWM

FOR 1350, 1550, 1750, 1850, 1850 N, 1950 and 1950 N TRACTORS SUMMARY OF MOST IMPORTANT SPECIFICATIONS

FOR 1350, 1550, 1750, 1850, 1850 N, 1950 and 1950 N TRACTORS SUMMARY OF MOST IMPORTANT SPECIFICATIONS Initial Filling – Collar Shift Transmission Up to tractor serial no. 621999L With narrow tread tractors From tractor serial no. 622 000L Transmission/Hydraulic System (with oil reservoir and oil cooler) With front wheel drive With MC1 cab (with heater) MC1 cab (without heater) With front PTO Without front wheel drive With front wheel drive Oil change and renew filter Oil change and renew filter Oil change and renew filter Cooling System Without cab or with Without mid PTO . Without mid PTO Front Wheel Drive Front axle housing With mid PTO With mid PTO CAPACITIES Initial filling Crankcase . 120 Nm (85 ft-lb) 230 Nm (170 ft-lb) 70 Nm (50 ft-lb) 90 Nm (65 ft-lb) 150 Nm (110 ft-lb) 300 Nm (220 ft-lb) 50 Nm (35 ft-lb) 250 Nm (180 ft-lb) ..3 to 6 mm 200 Nm (145 ft-lb) 250 Nm (185 ft-lb) 150 Nm (110 ft-lb) 240 Nm (175 ft-lb) 0.76 mm (0.03 in.) With front wheel drive0 to 3 mm (0 to 1/8 in.) 245 Nm (180 ft-lb) 230 Nm (170 ft-lb) 230 Nm (170 ft-lb) (1/8 to 1/4 in.) Standard version Without front wheel drive With front wheel drive Steel disk to rim Drag link to bell crank, slotted nut With front wheel drive 9/16 in. cap screw assy. in axle knee Without front wheel drive Without front wheel drive Maximum permissible axial play of knuckle and spindle Cap screw without cone. Wheel hub to axle spindle Supports to crossmember Heavy-duty version Axle knees to axle center MC1 cab mountings Steering arm to knuckle Rear wheels to rear axle Cap screw with cone Front axle axial play ... 2-POST ROLL-GUARD Supports to final drives M16 cap screw 4-POST ROLL-GUARD Front wheel toe-in Wheel rim to hub FRONT WHEELS and spindle assy. Steel disk to rim REAR WHEELS FRONT AXLE MC1 CAB .. 1/4 a turn 12 + 1/-2 mm (0.47 + 0.04/-0.08 in.) 2 to 2.5 4 to 10 mm 12 to 15 mm 10 + 6 mm 15 + 10/-5 mm (0.6 + 0.4/-0.2 in.) 45+6 mm 90 + 10/-5 mm (0.16 to 0.4 in.) (0.5 to 0.6 in.) ... 2 to 4 mm (0.08 to 0.16 in.) ... 3 to 6 mm (0.12 to 0.24 in.) (0.4 + 0.24 in.) 50±3 mm (3.54+0.4/-0.2 in.) (1.8 + 0.24 in.) $(2 \pm 0.12 \text{ in.})$ With MC1 cab (up to Tractor Serial No. 637600L) With MC1 cab (up to Tractor Serial No. 637600L) With MC1 cab (from Tractor Serial No. 637601L) With MC1 cab (from Tractor Serial No. 637601L) Up to Tractor Serial No. 637600L* From Tractor Serial No. 637601L* Clearance from rear end position to rear edge of rockshaft control lever* Front edge of control lever in position Front edge of control lever in position front edge of rockshaft control lever* Clearance from front end position to rear edge of rockshaft control lever* Clearance from rear end position to Adjusting Rockshaft Control Lever Adjusting commencement of lift Front edge of rockshaft control Front edge of rockshaft control ever to front edge of quadrant ever to front end of quadrant* rear end of quadrant* Rear edge of control lever to On narrow tread tractors Adjusting Valve Clearance Control lever play between On narrow tread tractors On narrow tread tractors Without cab* Turn adjusting screw lift by raising and lowering: clockwise at start of With MC1 cab with load control Without cab Without cab ī 300 kPa (3 bar; 44 psi) (190 bar; 2760 psi) (190 bar; 2760 psi) 17 000 kPa 1050 kPa (10.5 bar, 150 psi) 0 to 0.05 mm (0 to 0.002 in.) 400 Nm (300 ft-lb) 1050 kPa (10.5 bar, 150 psi) 880 Nm (650 ft-lb) 0 - 0.5 mm (0 - 0.02 in.) 35 Nm (25 ft-lb) 0.28 - 0.35 mm 10 kPa (0.1 bar; 1.5 psi) ... 15 Nm (11 ft-lb) 19 liters/min. (5 gpm) 34 liters/min. (9 gpm) . 0.1 to 0.9 mm (0.004 to 0.035 in.) 0.025 to 0.1 mm 120 Nm (85 ft-lb) 300 Nm (220 ft-lb) (0.011 - 0.014 in.) (0.001 to 0.004 in.) Operating pressure at 1500 rpm ... Return movement of pressure ring Minimum delivery at 2000 rpm and Operating pressure at 1500 rpm within 15 seconds Disk clutch slips at a torque of:

of pressure ring Test pressure for leakage test

to drive hub

BRAKES

Universal-jointed drive shaft

Front axle axial play

Front axle to front

axle carrier

FRONT WHEEL DRIVE axle carrier

Preload of taper roller

FRONT PTO

bearings Front PTO to front

ROCKSHAFT

Without through drive shaft

Axial play of pump shaft

With through drive shaft

12 cm³ (0.7 cu.in.) pump 23 cm³ (1.4 cu.in.) pump

operating pressure:

(170 bar; 2450 psi)

Pump stand-by pressure

HYDRAULIC PUMPS

Retraction pin assembly

10 seconds max.

Pressure drop within

to pressure ring

Opening pressure of thermal relief valve Hydraulic pump to front axle carrier . . .

Rockshaft to transmission case

Measured at upper edge of quadrant

Adjusting Load Control Arm

Turn in control arm adjusting

screw until it contacts arm

and then back off

a tum

..... 1/3 to 1/2

Tractors-JDWM

≡

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(1.70 U.S.gal.) (1.60 U.S.gal.) Initial filling – Synchronized Transmission

10.0 liters 13.0 liters

(2.60 U.S.gal.)

(3.40 U.S.gal.

6.5 liters

6.0 liters

50.0 liters (13.20 U.S.gal.) 53.0 liters Without front wheel drive

(12.00 U.S.gal.) 52.5 liters 45.5 liters (14.00 U.S.gal.) .. 55 liters 42.5 liters (14.5 U.S.gal.) (11.20 U.S.gal.) (13.9 U.S.gal.) With front PTO

41.0 liters (10.80 U.S.gal.) ... 36.0 liters

(8.70 U.S.gal.) 28.0 liters 33.0 liters (9.50 U.S.gal.)

(7.40 U.S.gal.)

..... 4.6 liters (1.20 U.S.gal.) 5.3 liters (1.40 U.S.gal.)

.... 3.5 liters

(0.13 U.S.gal.)

... 0.75 liters (0.20 U.S.gal.)

(0.92 U.S.gal.) Up to tractor serial no. 621 999 L Wheel hub, each

From tractor serial no. 622 000 L

Tractors-JDWM

≥ TM-4437 (Jun-90) A 9 Printed in Germany Thanks very much for your reading, Want to get more information, Please click here, Then get the complete manual



NOTE:

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

Have any questions please write to me: admin@servicemanualperfect.com

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1350, 1550, 1750, 1850, 1850 N, 1950 AND 1950 N TRACTORS TECHNICAL MANUAL TM4437 (JUN-90)

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INHALT-LB401AE-010389

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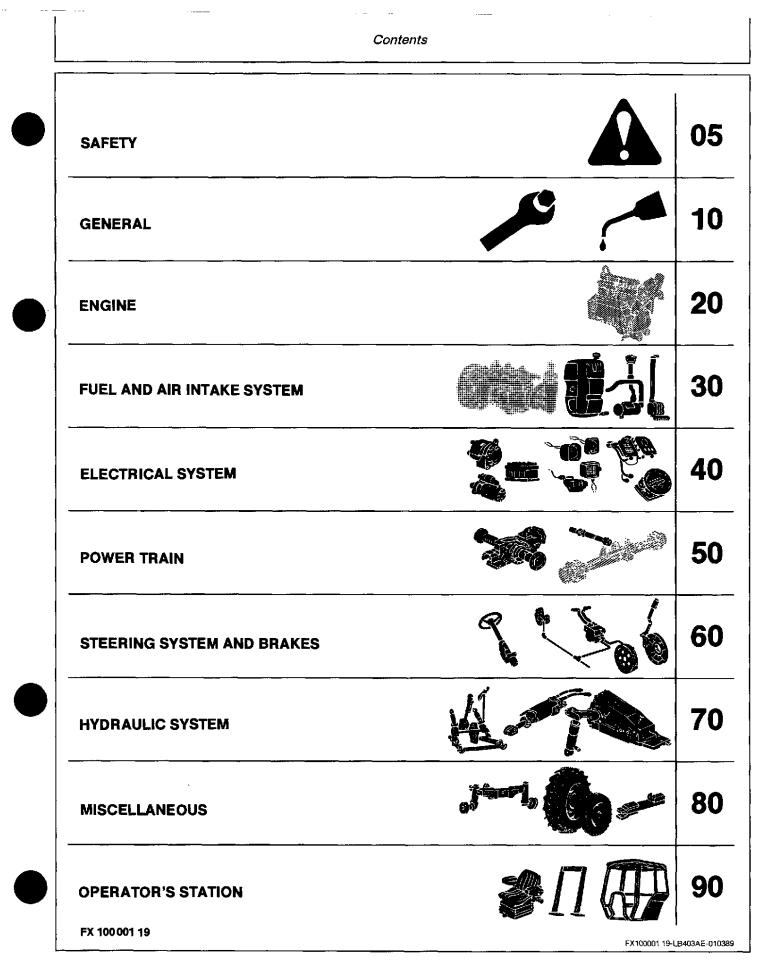
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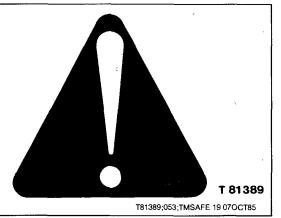
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Section 05 SAFETY

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.



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

OBSERVE SAFETY RULES

Avoid loose clothing that can catch in moving parts and put you out of work.

Wear your safety glasses while on the job.

Avoid working on equipment with the engine running. If it is necessary to make checks with the engine running, ALWAYS USE TWO PEOPLE – with the operator, at the controls, able to see the person doing the checking. Also, put the transmission in neutral, set the brake, and apply safety locks provided. KEEP HANDS AWAY FROM MOVING PARTS.

Keep transmission and brake control units properly adjusted at all times. Before making adjustments, stop engine.

Before removing any housing covers, stop engine. Take all objects from your pockets which could fall into the opened housings. Don't let adjusting wrenches fall into opened housings.

Don't attempt to check belt tension while the engine is running.

Don't adjust the fuel system while the machine is in motion.

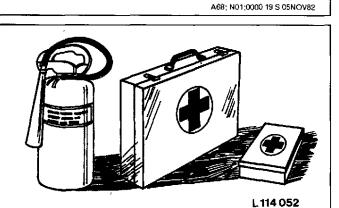
Before repairing the electrical system, or performing a major overhaul, make sure the batteries are disconnected.

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

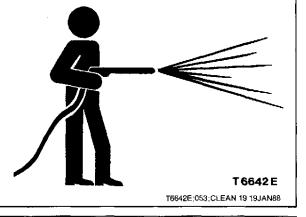


L114052;053;FIR2 19 15MAR89

WORK IN CLEAN AREA

Before starting a job:

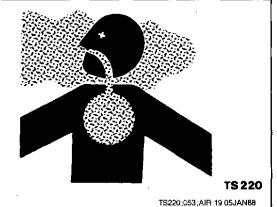
- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



PARK MACHINE SAFELY

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



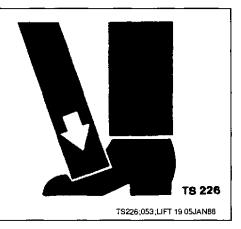
TS 230

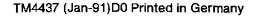
TS230;053;PARK 19 05JAN88

USE PROPER LIFTING EQUIPMENT

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.







Tractors - JDWM

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

SERVICE FRONT-WHEEL DRIVE TRACTOR SAFELY

When servicing front-wheel drive tractor with the rear wheels supported off the ground and rotating wheels by engine power, always support front wheels in a similar manner. Loss of electrical power or transmission/hydraulic system pressure will engage the front driving wheels, pulling the rear wheels off the support if front wheels are not raised. Under these conditions, front drive wheels can engage even with switch in disengaged position.

PREVENT MACHINE RUNAWAY

Avoid possible injury or death from a machine runaway.

Do not start the engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator's seat, with the transmission in neutral or "Park"

SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

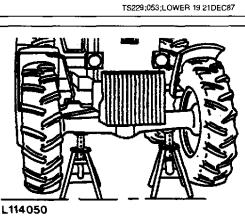
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.

05-4

TS228;053;LOOSE 19 21DEC87

TS 228





L114050-ESPDAE-140388

TS 229



UNDERSTAND CORRECT SERVICE

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidently broken bulb can ignite spilled fuel or oil.

Catch draining fuel, oil, or other fluids into suitable containers. Do not use food or beverage containers that may mislead someone into drinking from them. Wipe up spills at once.



USE TOOLS PROPERLY

Use tools appropriate to the work. Makeshift tools, parts, and procedures will not make good repairs.

Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use such tools to tighten fasteners, especially on light alloy parts.

Use only replacement parts meeting John Deere specifications.

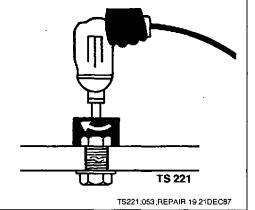
HANDLE FLUIDS SAFELY - AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS223:053;LIGHT 19 23FEB88



TS227;053;FLAME 19 05JAN88

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard to search for leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type of injury, or gangrene may result.



X9811;053;FLUID 19 18SEP87

REMOVE PAINT BEFORE WELDING OR HEATING

Avoid potentially toxic fumes and dust.

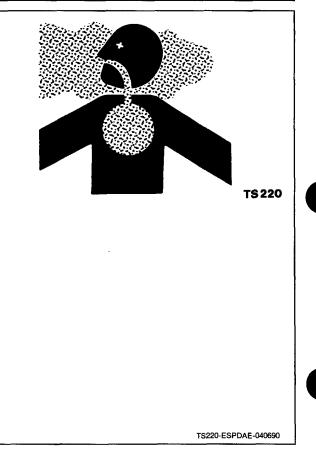
Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.

- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized lines or other flammable materials.

Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install fire resisting guards to protect hoses or other materials.



TS953-ESPDAE-040690

AVOID HARMFUL ASBESTOS DUST

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in John Deere products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding of asbestoscontaining materials. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, wet the asbestoscontaining materials with a mist of oil or water.

Keep bystanders away from the area.

Please note designations on spare parts.



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing and cause blindness if splashed into eyes.

Avoid the hazard by:

- 1. Filling the batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.

2. Apply baking soda or lime to help neutralize the acid.

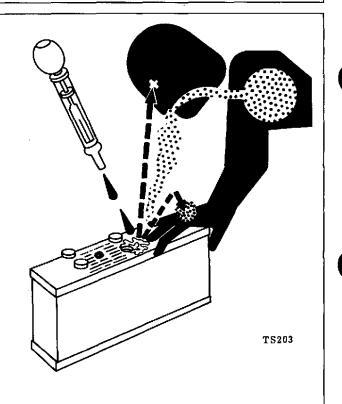
3. Flush your eyes with water for 10 – 15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.

2. Then drink milk of magnesia, beaten eggs or vegetable oil.

3- Get medical attention immediately.



TS203;053;POISON 19 21DEC87

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



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SERVICE TIRES SAFELY

Explosive separation of a tire and rim parts can cause serious injury or death.

Only attempt to mount a tire if you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



TS211;053;RIM 19:21DEC87

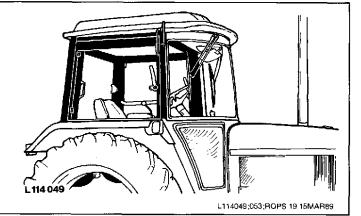
KEEP CAB/ROPS INSTALLED PROPERLY

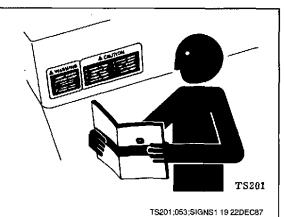
Make certain all parts are reinstalled correctly if the cab or roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to specified torque.

Protection offered by cab or ROPS is impaired if subjected to structural damage, is involved in an overturn incident or is altered in any way by welding, bending, drilling or cutting. A damaged cab or ROPS should be replaced, not reused.

REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.





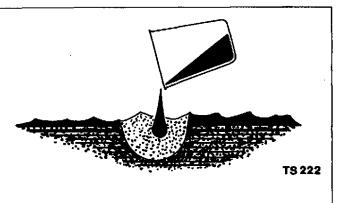


OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS

Be mindful of the environment and ecology.

Before draining any fluids, find out the correct way of disposing of them.

Observe the relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters and batteries.



TS222-ESPDAE-140388

Section 10 GENERAL

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	-
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General

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NCEL ×	× 1550	× 1750	× 1850	× 1850 N	× 1950	× 1950N
x	x	x	x	х	x	x
x	x	x	X	X	x	x
x	х	X	X	X	X	x
х	x	X	X	X	X	х
X	X	X	X	х	X	X
x	X	×	x	x	x	×
x	X	x	x	x	x	x
X	X	X	x	x	x	X
X	X	X	х	X	X	X
х	x	X	X	X	x	X
х	X	X	X	X	X	X
	X	X	X	X	X	X
X	×	X	X X	X X	X	x
X	x	X	X	X	X	x
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Х	X	X	X	X	×	X
Х	X	X	X	X	X	x
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х	X I	X	X	X	×	
X	X	×	x	×	×	×
x	x	x	x	x	x	x
х	X	x	x	x	x	x
×	x	x	x	x	x	x
x	x	x	x	x	x	x

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