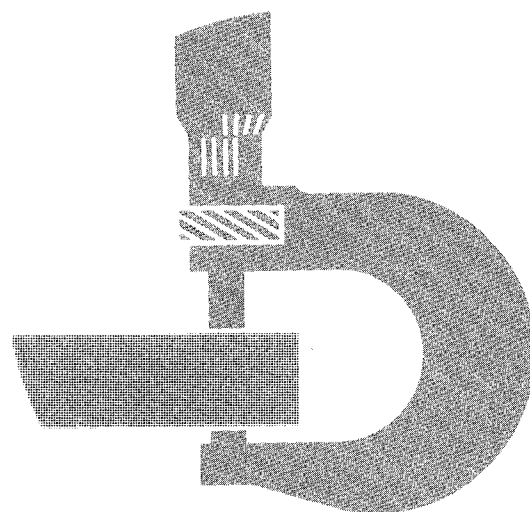


**2955, 3055,  
3155 and 3255  
Tractors**

**TECHNICAL  
MANUAL**



**2955, 3055, 3155 AND  
3255 TRACTORS  
TECHNICAL MANUAL  
TM4449 (DEC-91)**

**SECTION CONTENTS IN GROUPS – REPAIR**

**05 – SAFETY**

**10 – GENERAL**

- 05 – Specifications
- 10 – Predelivery, delivery and after-sales inspections
- 15 – Lubrication and service
- 20 – Tune-up
- 25 – Tractor separation

**20 – ENGINE, VISCOUS FAN DRIVE AND FAN**

- 05 – Radiator, viscous fan drive and fan

**30 – FUEL AND AIR INTAKE SYSTEM**

- 05 – Fuel tank, auxiliary tank and water trap
- 10 – Cold weather starting aids
- 15 – Speed control linkage
- 20 – Air cleaner

**40 – ELECTRICAL SYSTEM**

- 05 – Wiring harnesses
- 10 – Controls and instruments (without SOUND-GARD body)
- 15 – Controls and instruments (with SOUND-GARD body)
- 20 – Lighting system
- 25 – Starting motor
- 30 – Alternator

**50 – POWER TRAIN**

- 05 – Clutch operating systems
- 10 – Engine clutch
- 15 – Hi-Lo shift unit
- 20 – Creeper transmission
- 25 – Transmission – console shift
- 30 – Transmission – center shift
- 35 – Synchronized transmission and transmission oil pump
- 40 – Differential
- 45 – Final drives
- 50 – PTO
- 55 – Front wheel drive u.j. drive shaft and disk clutch

**60 – STEERING SYSTEM AND BRAKES**

- 05 – Hydrostatic steering
- 10 – Steering cylinder (without front wheel drive)
- 15 – Hydraulic brakes
- 20 – Handbrake

**70 – HYDRAULIC SYSTEM**

- 05 – Valves
- 10 – Hydraulic pumps
- 15 – Rockshaft
- 25 – Selective control valves (spool type)
- 30 – Selective control valves (poppet valve type)

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INHALT-LB601AE-010991

## SECTION CONTENTS IN GROUPS (REPAIR)

### 70 – HYDRAULIC SYSTEM (CONTD.)

- 35 – ISO breakaway couplers
- 40 – ISO quick couplers
- 45 – Remote cylinder

### 80 – MISCELLANEOUS

- 05 – Front axle
- 10 – Front and rear wheels

### 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
- 10 – Cab ventilation and heating
- 15 – Operator's seats
- 20 – SOUND-GARD body
- 25 – 4-post ROLL-GARD
- 30 – 2-post ROLL-GARD
- 35 – Foldable ROPS

INHALT-LB602AE-010991

**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

## 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.



TS 227

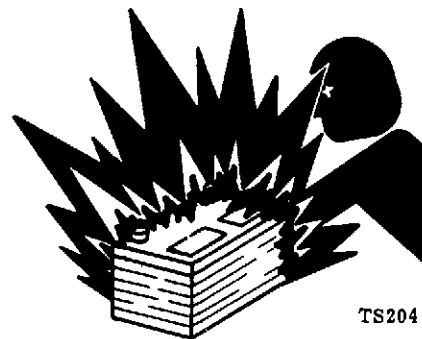
TS227-DX,FLAME-19-04JUN90

## 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).



TS204

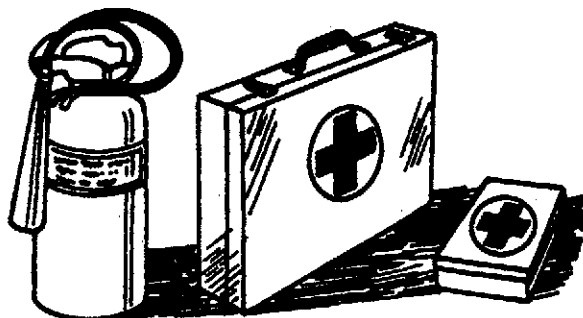
TS204-DX,SPARKS-19-04JUN90

## 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.



TS 291

TS291-DX,FIRE2-19-04JUN90

## 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:

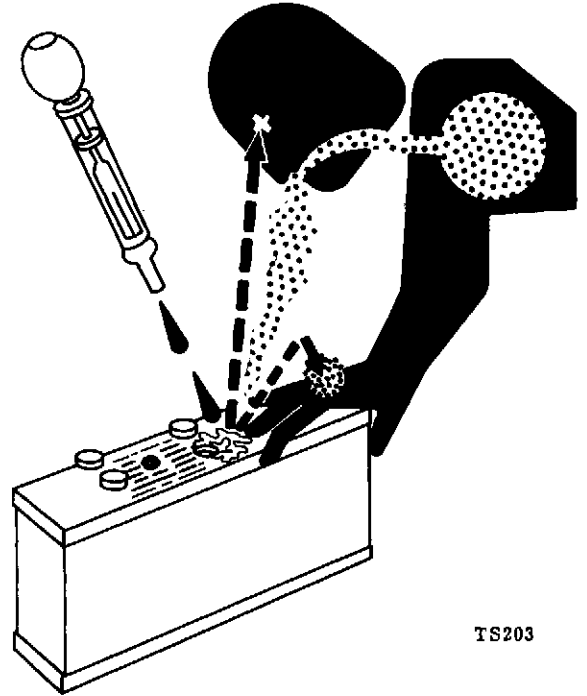
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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

TS203-DX, POISON-19-04JUN90

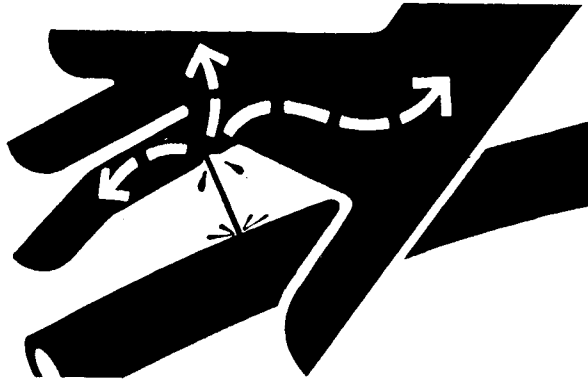
### AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

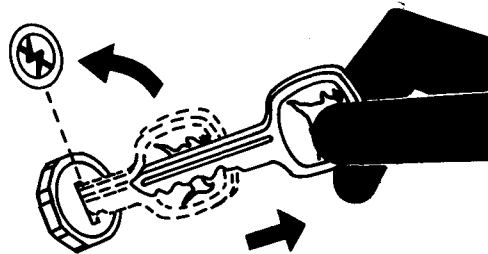


X9811-DX,FLUID-19-09AUG91

### 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-DX,PARK-19-04JUN90

### PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machinery runaway.

Do not start 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 transmission in neutral or park.



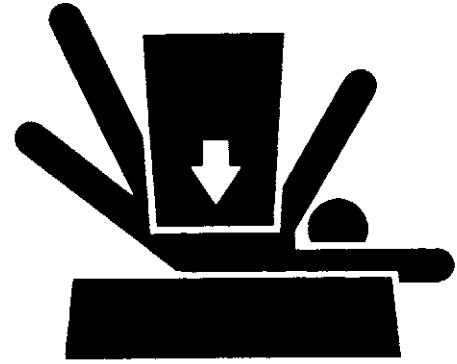
TS177

TS177-DX,BYPAS1-19-04JUN90

### 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.

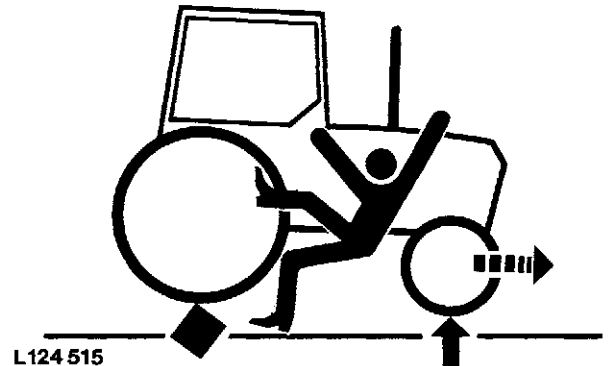


TS 229

TS229-DX,LOWER-19-04JUN90

### 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.



L124 515

L124515-LX,MFWD2-19-01MAY91



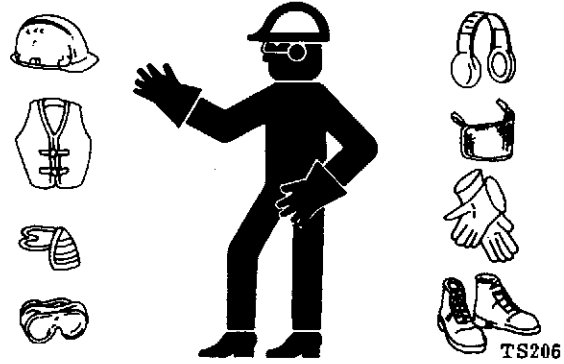
### WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating the machine.

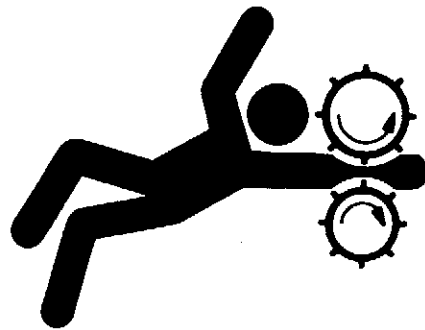


TS206-DX,WEAR-19-10SEP90

### SERVICE MACHINES 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.



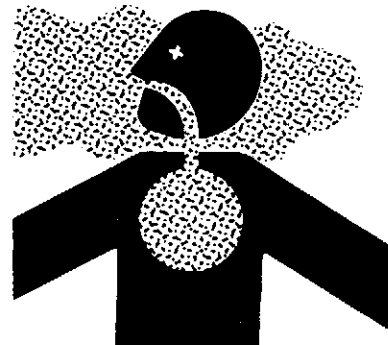
TS228

TS228-DX,LOOSE-19-04JUN90

### 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.



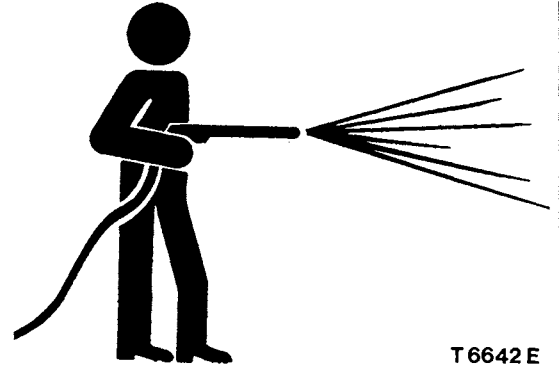
TS 220

TS220-DX,AIR-19-04JUN90

### 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.



T 6642 E

T6642E-DX,CLEAN-19-04JUN90

### 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.



TS 220

TS220-DX,PAINT-19-04JUN90

### 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 fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



TS 953

TS953-DX,TORCH-19-05OCT90

### ILLUMINATE WORK AREA SAFELY

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 accidentally broken bulb can ignite spilled fuel or oil.



TS 223

TS223-DX,LIGHT-19-04JUN90

### REPLACE SAFETY SIGNS

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



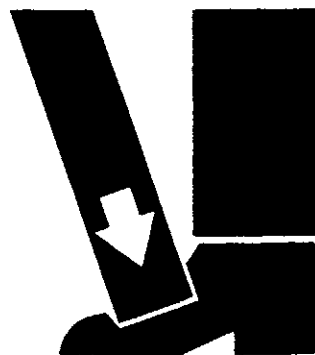
TS201

TS201-DX,SIGNS1-19-04JUN90

### 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.



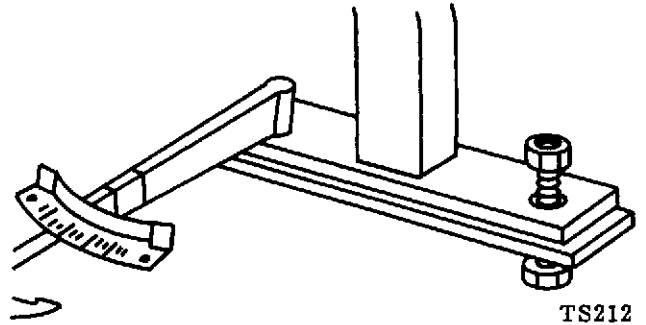
TS 226

TS226-DX,LIFT-19-04JUN90

### KEEP ROPS INSTALLED PROPERLY

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

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



TS212-DX,ROPS3-19-04JUN90

### SERVICE TIRES SAFELY

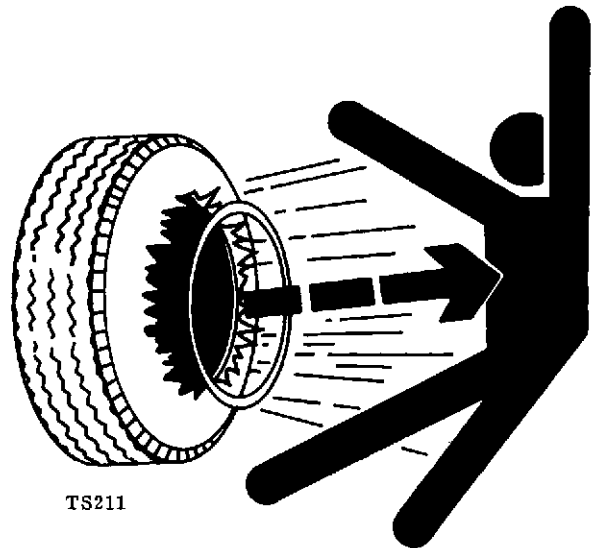
Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

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-DX,RIM-19-24AUG90

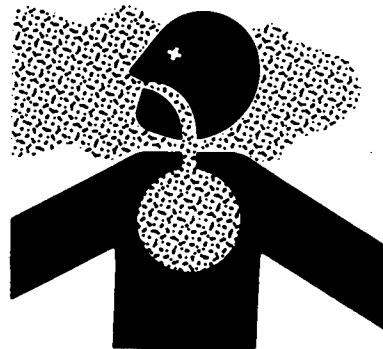
## AVOID HARMFUL ASBESTOS DUST

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 material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos.

Keep bystanders away from the area.



TS 220

TS220-DX,DUST-19-15MAR91

## PRACTICE SAFE MAINTENANCE

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

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

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

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

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



TS 218

TS218-DX,SERV-19-04JUN90

## USE PROPER TOOLS

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

Use power tools only to loosen threaded parts and fasteners.

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

Use only service parts meeting John Deere specifications.

**TS779**



TS779-DX,REPAIR-19-04JUN00

## DISPOSE OF WASTE PROPERLY

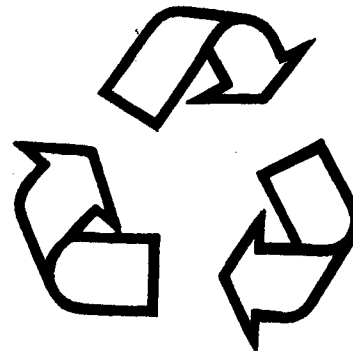
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



TS 1133

TS1133-DX,DRAIN-19-09AUG91

## LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



TS 231

TS231-DX,LIVE-19-04JUN90

# Section 10 GENERAL

## 05 – SPECIFICATIONS

Specifications .....	05-1
– Serial number plates .....	05-1
– Product identification number .....	05-1
– Engine serial number .....	05-1
– Transmission serial number .....	05-2
– Front wheel drive axle serial number .....	05-3
– SOUND-GARD body serial number .....	05-3
– ROLL-GARD serial number .....	05-3
– Model serial numbers .....	05-3
– Engine .....	05-4
– Engine clutch .....	05-5
– Cooling system .....	05-5
– Fuel system .....	05-5
– Electrical system .....	05-6
– Synchronized transmission .....	05-6
– Hi-Lo shift unit .....	05-6
– Creeper transmission .....	05-6
– Differential and final drives .....	05-6
– Differential lock .....	05-7
– PTO .....	05-7
– PTO speeds .....	05-7
– Front wheel drive .....	05-8
– Hydrostatic steering .....	05-8
– Foot brakes .....	05-8
– Hand brake .....	05-8
– Hydraulic system .....	05-8
– Rockshaft .....	05-8
– Ground travel speeds .....	05-8
– Front and rear wheels .....	05-9
– Dimensions and weights .....	05-9
– Capacities .....	05-9
– Standard torques for hardware .....	05-10

## 10 – PREDELIVERY, DELIVERY AND AFTER-SALES INSPECTIONS

Special tools .....	10-1
Specifications .....	10-2
Capacities .....	10-3
Torques for hardware .....	10-3
Predelivery inspection .....	10-4
Delivery inspection .....	10-24
After-sales inspection .....	10-25

## 15 – LUBRICATION AND SERVICE

Capacities and service intervals .....	15-1
Lubricants and service intervals .....	15-2
General .....	15-3
Diesel engine oil .....	15-3
Transmission/hydraulic oil .....	15-4
Oil for front wheel drive axle .....	15-4
EP multi-purpose grease .....	15-5
Storing lubricants .....	15-5
Brake fluid for hydraulic operated clutch .....	15-5
Alternative lubricants .....	15-6
Oil filters .....	15-6
Engine coolant .....	15-6
Liquid coolant conditioner .....	15-7
Checking engine oil level .....	15-7
Changing engine oil .....	15-8
Changing engine oil filter .....	15-8
Checking fuel filter .....	15-9
Replacing fuel filter .....	15-9
Replacing coolant .....	15-10
Checking transmission/hydraulic system oil level .....	15-11
Changing transmission/hydraulic oil .....	15-12
Replacing transmission/hydraulic oil filter element .....	15-13
Replacing hydraulic oil return flow filter .....	15-13
Replacing hydrostatic steering filter (without SOUND-GARD body or ROLL-GARD) .....	15-14



**15 – LUBRICATION AND SERVICE (Contd.)**

Cleaning hydraulic pump filter strainer .....	15-14
Replacing brake fluid (with hydraulic operated clutch) .....	15-14
Cleaning refrigerant and checking air conditioning system .....	15-15
Checking axle housing oil level .....	15-15
Checking oil level in wheel hub housings .....	15-15
Changing front axle oil .....	15-16
Cleaning lubricating points .....	15-16
Lubricating clutch throw-out bearing on mechanical operated clutch .....	15-16
Lubricating front axle and front wheel bearings (without front wheel drive) .....	15-17
Lubricating front axle (with front wheel drive) .....	15-17
Lubricating universal-jointed drive shaft (with front wheel drive) .....	15-18
Lubricating rear axle bearings .....	15-18
Lubricating three-point hitch .....	15-19

**20 – TUNE-UP**

Specifications .....	20-1
Preliminary engine testing .....	20-2
Checking air cleaner element .....	20-3
Checking air intake system connections for leaks .....	20-3
Checking crankcase vent tube for clogging .....	20-3
Cleaning radiator side panels and grille screens .....	20-3
Cleaning radiator and oil cooler .....	20-4
Cleaning condenser .....	20-4
Checking radiator cap .....	20-4
Checking radiator for leaks .....	20-4
Checking thermostats .....	20-5
Checking fuel transfer pump .....	20-5
Checking fuel filter .....	20-5
Checking fuel tank .....	20-6
Checking auxiliary fuel tank .....	20-6
Checking water trap .....	20-6
Checking fuel injection pump adjustment .....	20-6
Checking engine slow and fast idle speeds .....	20-7
Checking speed control linkage adjustment .....	20-8
Checking batteries .....	20-8
Checking fan belt tension .....	20-8
Checking compressor belt tension .....	20-9
Checking neutral start system .....	20-9
Checking operation of starting motor .....	20-9
Checking lighting system .....	20-10
Final engine check .....	20-10
Checking tractor operation .....	20-10

**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.**

**25 – TRACTOR SEPARATION**

Special tools ..... 25-1  
Specifications ..... 25-5  
Torques for hardware ..... 25-5  
Capacities ..... 25-9  
Standard torques for hardware ..... 25-10  
Important notes ..... 25-13  
Removing tractor front end ..... 25-14  
Installing tractor front end ..... 25-22  
Separating between engine and clutch  
housing ..... 25-25  
Joining tractor between engine and  
clutch housing ..... 25-36  
Removing engine ..... 25-40  
Installing engine ..... 25-41  
Removing clutch housing ..... 25-42  
Installing clutch housing ..... 25-44  
Removing transmission ..... 25-45  
Installing transmission ..... 25-55  
Removing final drives ..... 25-60  
Installing final drives ..... 25-70  
Removing rockshaft ..... 25-74  
Installing rockshaft ..... 25-77  
Removing front axle ..... 25-79  
Installing front axle ..... 25-80  
Removing front wheel drive axle ..... 25-83  
Installing front wheel drive axle ..... 25-85  
Removing SOUND-GARD body or ROLL-GARD ..... 25-87  
Installing SOUND-GARD body or ROLL-GARD ..... 25-97

## SPECIFICATIONS

### SERIAL NUMBER PLATES

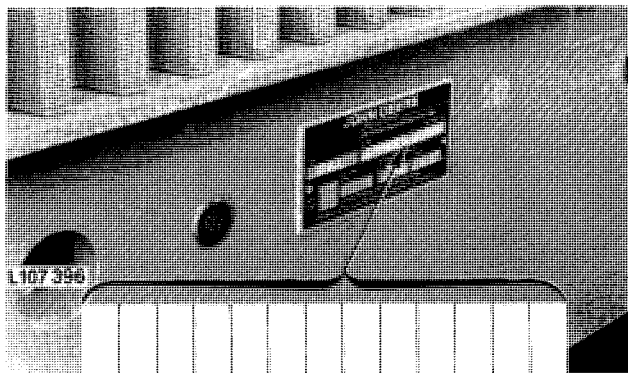
The following illustrations show the serial number plates for tractor major components. The letters and figures on these plates are required for warranty claims and when ordering replacement parts.

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.*

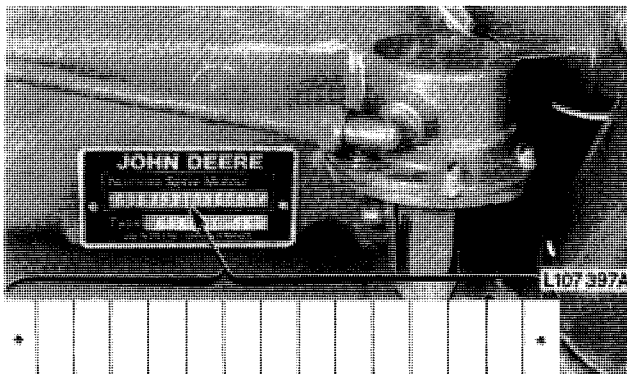


L107396-LB61005AE-010688

### 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