

5300N, 5400N and 5500N Tractors

**DCEO-Mannheim
OMER360019 Issue H7**

Printed in Germany
ENGLISH

Introduction

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages (see your John Deere dealer to order).

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

SETTING FUEL DELIVERY BEYOND PUBLISHED factory specifications or otherwise overpowering will result in loss of warranty protection for this machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed a predelivery inspection. After operating for the first 100 hours, schedule an after-sale inspection with your dealer to ensure best performance.

THIS TRACTOR IS DESIGNED SOLELY for use in customary agricultural or similar operations ("INTENDED USE").

Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

THIS TRACTOR SHOULD BE OPERATED, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention).

The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times.

Any arbitrary modifications carried out on this tractor will relieve the manufacturer of all liability for any resulting damage or injury.

Predelivery Inspection

Dealer's name		Town	Dealer's Account No.	J.D. Branch No.
Servicing Dealer, if not identical with above — Name, Address				
Customer (initials and surname)			Street + No.	
Town and Postcode			Vehicle Registration No.	
Delivery Day	Month	Year	Machine Name	
Date				
Product Identification No. (Serial No.)			Customer Group	
			A ☐ B ☐ C ☐ D ☐ E ☐	
			A = Farmer B = Contractor C = Commercial D = Community E = Home Owner	

TO THE DEALER

THE FOLLOWING PREDELIVERY SERVICE MUST be performed by you. Refer to the Operator's Manual for detailed information.

- | | | |
|---|---|---|
| ☐ 1. Lubricate all grease fittings. | ☐ 3. Tighten all wheel bolts and nuts to the specified torque. | ☐ 5. Adjust dipstick*. |
| ☐ 2. Check tire pressure; adjust if necessary. | ☐ 4. Adjust headlights*. | ☐ 6. Make a test run of the machine. |

* Only required on tractors supplied without tires or with temporary wheels.

The following inspections have been made at the factory. Prior to delivery the following items must be rechecked by you. Refer to the Operator's Manual and the Technical Manual for detailed information. Mark the YES box if condition WAS FOUND acceptable, or NO, if not. If the answer is NO, give a short explanation in the "COMMENTS" column. Following this, make corrections if necessary prior to delivery.

Yes No

- | | |
|---|--|
| ☐ ☐ | 1. Engine oil level correct? |
| ☐ ☐ | 2. Engine coolant level correct? |
| ☐ ☐ | 3. Transmission/hydraulic system oil level correct? |
| ☐ ☐ | 4. Front wheel drive axle oil level correct? |
| ☐ ☐ | 5. Safety shields installed correctly? |
| ☐ ☐ | 6. Instrument panel gauges and lights operating correctly? |
| ☐ ☐ | 7. All lights operating correctly? |

Yes No

- | | |
|---|--|
| ☐ ☐ | 8. Cab controls (heater, blower, air conditioner, windshield wiper) operating correctly? |
| ☐ ☐ | 9. Neutral start switch operating correctly? |
| ☐ ☐ | 10. Engine shut-off device operating correctly? |
| ☐ ☐ | 11. Transmission shift components operating correctly? |
| ☐ ☐ | 12. Steering operating correctly? |
| ☐ ☐ | 13. Foot brakes operating correctly? |
| ☐ ☐ | 14. Parking lock and handbrake (if equipped) operating correctly? |

Yes No

- | | |
|---|---|
| ☐ ☐ | 15. Power take-offs operating correctly? |
| ☐ ☐ | 16. Rockshaft operating correctly? |
| ☐ ☐ | 17. Selective control valves operating correctly? |
| ☐ ☐ | 18. Seat adjustments operating correctly? |
| Are the lines of the following systems free from leaks? | |
| ☐ ☐ | 19. Engine cooling system? |
| ☐ ☐ | 20. Fuel system? |
| ☐ ☐ | 21. Hydraulic system? |
| ☐ ☐ | 22. Are paint and decals smooth and neat? |

COMMENTS: _____

Delivery Report and Operator's Manual OMER360019 Issue H7 were handed over to the customer together with the machine.

Dealer — Service Technician

Date

DISTRIBUTION:

1—white = JD Sales Branch, 2—green = Factory, 3—yellow = JD Dealer, 4—blue = Servicing Dealer, 5—pink = Customer

AT,5NOM,CHECKL -19-01SEP97

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

Contents

	Page		Page
Identification Views	00-1	Cold weather starting procedure	40-9
Safety	05-1	Using booster battery	40-10
Safety Decals	10-1	Operating the Tractor	
Controls and Instruments		Operator training	45-1
Tractor controls	15-1	Driving on public roads	45-1
Instruments and indicator lights	15-4	Shifting transmission	45-3
Lights		Selecting a gear	45-6
Light and horn switch positions	20-1	Ground travel speeds	45-7
Full beam indicator light	20-1	Brakes	45-10
Tail lights	20-2	Differential lock	45-10
Rear work light	20-2	Front-wheel drive	45-11
Hazard warning lights	20-3	Hydraulic trailer brakes	45-13
Turn signal light	20-3	Rockshaft and Three-Point Hitch	
Seven-terminal trailer socket	20-4	Match tractor power to implement	50-1
Operator's Platform and Cab		Components	50-1
Roll-over protective structure (ROPS)	25-1	Rockshaft control levers	50-2
Operator's seat	25-2	Position control lever stop	50-3
Cab controls	25-2	Draft control	50-4
Beacon light	25-3	Rockshaft rate-of-drop	50-5
Sun visor	25-3	Converting hitches	50-6
Tool box	25-3	Positioning draft link ends	50-6
Break-In Period	30-1	Positioning center link	50-7
Prestarting Checks	35-1	Adjusting rockshaft control lever friction	50-10
Operating the Engine		Warming hydraulic system oil	50-10
Before starting the engine	40-1	Remote Hydraulic Cylinders	
Starting the engine	40-3	Use correct hose tips	55-1
Changing engine speeds	40-6	Control lever and coupler identification	55-1
Warming up the engine	40-6	Maximum permissible oil withdrawal	55-3
Restart stalled engine	40-7	Cylinder hoses	55-3
Avoid idling the engine	40-7	Connecting hose under pressure	55-4
Engine work and idle speeds	40-7	Connecting single-acting cylinder	55-4
Speed-hour meter	40-8	Correcting reversed cylinder response	55-5
Stopping the engine	40-8	Neutral lever position	55-5
		Retracting cylinder	55-5
		Extending cylinder	55-6
		Disconnecting cylinder hoses	55-6

Continued on next page

All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

OMER360019 H7-19-01SEP97

COPYRIGHT© 1997
DEERE & COMPANY
European Office Mannheim
All rights reserved
A John Deere ILLUSTRATION® Manual

	Page		Page
Drawbar and PTO		Service—250 Hours	
Drawbar position	60-1	Check coolant level	100-1
Drawbar length	60-1	Change engine oil and filter	100-2
Using swinging drawbar	60-1	Replace transmission/hydraulic oil filter	100-2
Attaching PTO-driven implement	60-2	Inspect and adjust alternator/fan belt	100-3
Operating tractor PTO at correct speed	60-3	Lubricate 3-point hitch	100-3
PTO clutch operating rod	60-5	Lubricate center link bracket	100-3
		Lubricate MFWD drive shaft joints	100-4
		Check neutral start system	100-4
		Check clutch pedal free travel	100-4
Ballast		Service—500 Hours	
Planning for maximum productivity	65-1	Replace fuel filter	105-1
Selecting ballast carefully	65-1	Drain water and sediment from fuel tank	105-1
Measuring wheel slip	65-3	Lubricate rear axle bearings	105-1
Ballast limitations	65-4	Check hoses and hose clamps for tightness	105-2
Ballasting front end for transport	65-4		
Ballasting two-wheel drive tractor	65-5	Service—750 Hours	
Ballasting MFWD tractors	65-5	Clean engine crankcase vent tube	110-1
		Check engine speeds	110-1
Wheels, Tires and Treads		Adjust engine valve clearance	110-1
MFWD axle	70-2	Change transmission/hydraulic oil suction strainer	110-2
Rear axle	70-2	Check front axle pivot pin	110-2
Rear wheel tread width limitations	70-3		
Adjusting rear wheel tread width	70-4	Service—1500 Hours or Every 2 Years	
Front axle tread width	70-5	Change oil in MFWD axle housing	115-1
Checking toe-in	70-8	Change transmission/hydraulic oil and filter	115-1
Adjusting toe-in	70-8	Flush cooling system	115-2
Setting steering stops	70-10		
Tire combinations	70-12	Service—As Required	
Transporting		Clean grille screens, radiator and oil cooler	120-1
Driving tractor on roads	75-1	Inspect all tires	120-1
Transport on carrier	75-2	Adjust throttle friction	120-1
Towing tractor	75-2	Service air cleaner	120-2
		Removing primary air cleaner element	120-3
Fuel, Lubricants and Coolant	80-1	Cleaning primary element	120-3
		Washing primary element	120-4
Lubrication and Maintenance		Inspecting element	120-4
Observe service intervals	85-1	Storing element	120-5
Use correct lubricant	85-1	Replace alternator/fan belt	120-5
Service intervals	85-2	Bleeding fuel system	120-6
		Locating fuses	120-7
Service—10 Hours		Fuse size and function	120-8
Check engine oil level	90-1	Cab fuse size and function	120-9
Service—50 Hours			
Check transmission/hydraulic system oil level	95-1		
Check MFWD axle hub oil level	95-1		
Lubricate front axle pivot pin(s)	95-2		
Lubricate steering spindles	95-2		

Continued on next page

	Page
Service	
Service tractor safely	125-1
Opening hood	125-1
Removing hood	125-2
Removing side shields	125-3
Side screen removal	125-4
Air intake system components	125-4
Fuel system components	125-5
Cooling system components	125-6
Flush cooling system	125-7
Electrical service precautions	125-9
Battery access	125-9
Clean and check battery	125-9
Battery removal	125-10
Servicing battery	125-10
Battery replacement	125-10
Charging battery	125-11
Adjusting head lamps	125-12
Replace head lamp bulb	125-12
Replace clearance, stop and turn signal lamp bulbs	125-13
Rear work lamp bulb	125-13
Tire pressures	125-14
Troubleshooting	
Engine	130-1
Transmission	130-5
Brakes	130-5
Rockshaft and 3-point hitch	130-6
Remote hydraulic cylinders	130-7
Electrical system	130-8
Storage	135-1
Specifications	140-1
Identification Numbers	
Identification plates	145-1
Tractor serial number	145-1
Engine serial number	145-1
MFWD serial number	145-2
Front axle (2WD) serial number	145-2
Lubrication and Maintenance Records . . .	150-1
Index	

Identification Views



5400N without FWD, with ROPS

AT5002
-UN-20AUG97



5500N with FWD, with cab

AT5001
-UN-20AUG97

Safety

RECOGNIZE SAFETY INFORMATION

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

Follow recommended precautions and safe operating practices.



DX,ALERT -19-03MAR93

T81389 -UN-07DEC88

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



DX,SIGNAL -19-03MAR93

TS187 -19-30SEP88

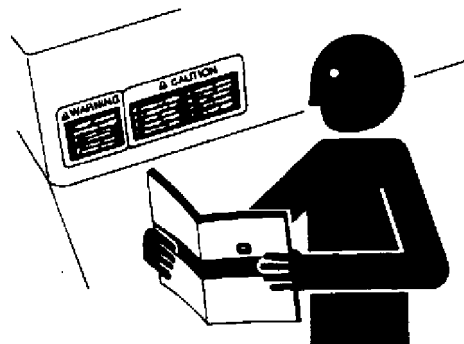
FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX,READ -19-03MAR93

TS201 -UN-23AUG88

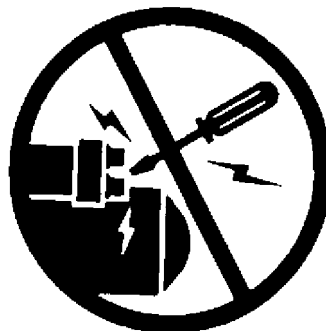


PREVENT MACHINE RUNAWAY

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.



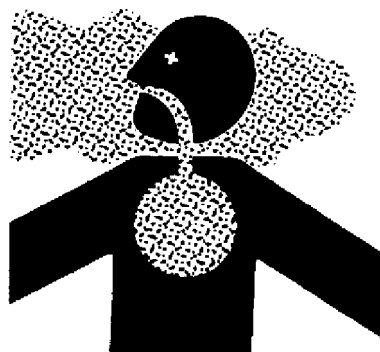
TS177 -UN-11JAN89

AT,5SOM,148 -19-01OCT96

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.



TS220 -UN-23AUG88

DX,AIR -19-04JUN90



DRIVING THE TRACTOR SAFELY

Always check the road and general operating safety of the machine before using.

Operate tractor only when all guards are fitted and in their correct position.

Before moving away, always check immediate vicinity of machine (e.g. for children). Ensure adequate visibility.

Always adapt your ground speed to meet the ground conditions. Avoid making sharp turns when driving up or down slopes or when driving across the slope. Do not attempt to turn the machine with the differential lock engaged. When driving down slopes, never depress the clutch and change gear!

Attach implements and trailers to the tractor only using the prescribed drawbars or hitches. Attach trailers and implements correctly. Always ensure that trailers and implements cannot roll away.

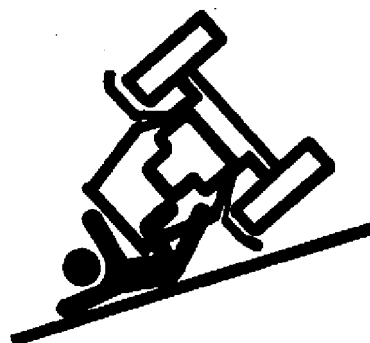
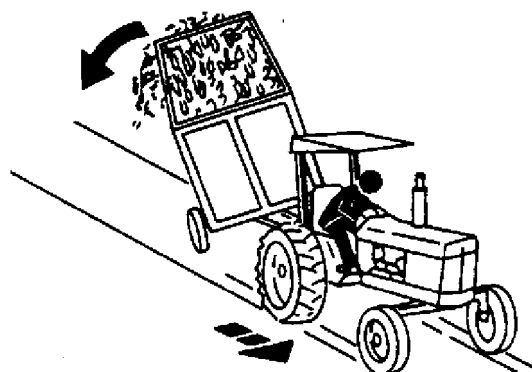
When making turns with towed or mounted implements, always take into consideration the width and inertia of the implement.

Reduce your ground speed when driving the tractor on slopes or over uneven ground and before making sharp turns. Before descending a steep hill, shift to a lower gear. Never coast downhill!

Avoid holes, ditches and obstructions which may cause the tractor to tip, particularly on hillsides.

Front-wheel drive greatly increases traction. This means that the tractor can be driven on steeper slopes, increasing the possibility of a tip over. Driving forward out of a ditch or up a steep slope could cause tractor to tip over to the rear. Therefore reverse out of these situations whenever possible.

Never drive near the edge of a gully or steep embankment — it might cave in!

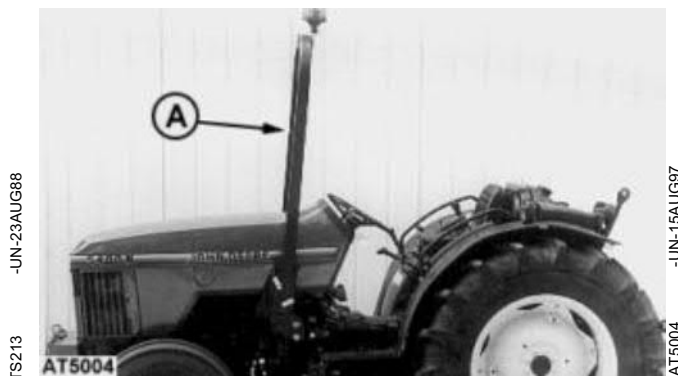
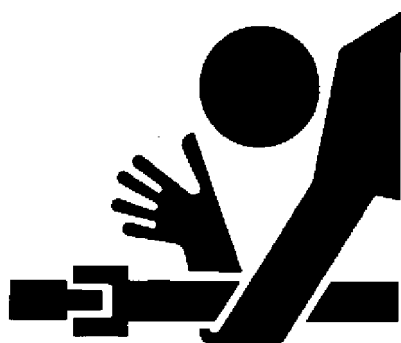


TS216 -UN-23AUG88

RW13093 -UN-07DEC88



OPERATING THE TRACTOR SAFELY



Careless use of the tractor can result in unnecessary accidents. Be alert to hazards of tractor operation. Understand causes of accidents and take every precaution to avoid them. Most common accidents are caused by:

- Tractor roll-over
- Improper starting procedures
- Crushing and pinching during hitching
- Collisions with other motor vehicles
- Entanglement in PTO shafts
- Falling from tractor

Avoid accidents by taking the following precautions:

- Before leaving the machine, stop the engine, place all controls in neutral and apply the HANDBRAKE. Leaving transmission in gear with engine stopped will NOT prevent tractor from moving.

- Be sure everyone is clear of tractor and attached equipment before starting engine.
- Never try to get on or off a moving tractor.
- When tractor is left unattended, apply HANDBRAKE, lower implements to the ground, stop the engine and remove key.
- Never go near an operating PTO or an operating implement.

Use foldable ROPS (if equipped):

The foldable Roll-Over Protective Structure (ROPS) (A) should be kept in the "up" or extended position (see illustration) with pins (B) retained with quick-lock pins (C), except when necessary to fold it for low clearance operation.

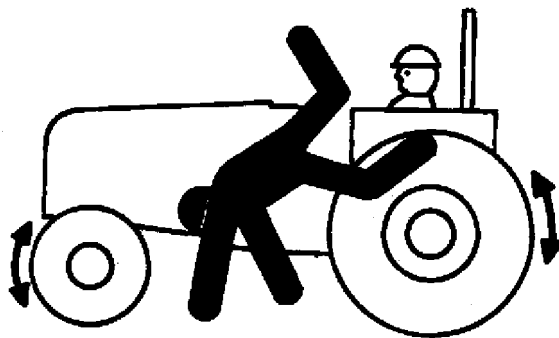


KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

On machines equipped with a passenger seat, one rider is permitted.



TS290 -UN-23AUG88

LX,OMITF 002146-19-01FEB92

PARKING AND LEAVING THE TRACTOR

Lower mounted implement(s) or equipment to the ground before leaving the tractor.

When leaving the tractor and/or implements, shut off engine, engage range and gear shift levers as well as handbrake, remove main switch key and lock the operator's cab (when equipped). Position chock blocks.

Never leave tractor unattended as long as engine is still running.

Never leave the operator's platform/cab when driving.



LX002510

LX002510 -UN-17JAN95

AT,5SOM,26 -19-01OCT96

HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



TS202 -UN-23AUG88

DX,FIRE1 -19-03MAR93

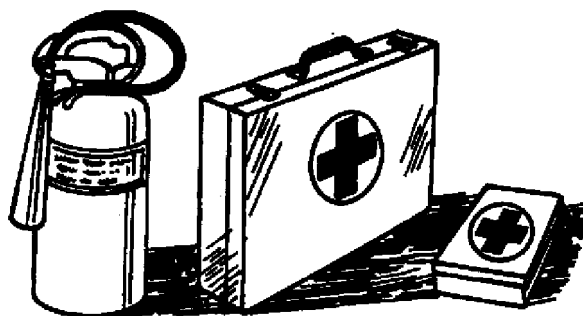


PREPARE FOR EMERGENCIES

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.



DX,FIRE2 -19-03MAR93

TS291 -UN-23AUG88

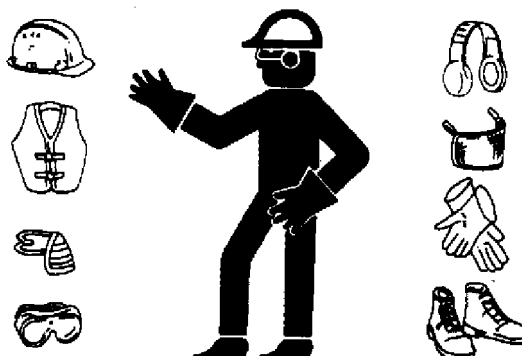
WEAR PROTECTIVE CLOTHING

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 machine.



DX,WEAR -19-10SEP90

TS206 -UN-23AUG88

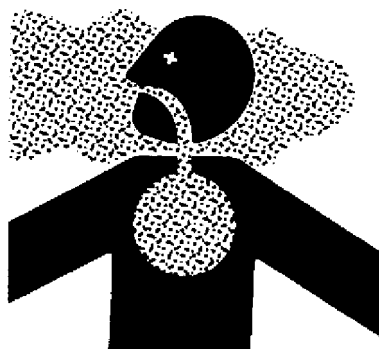


AVOID CONTACT WITH PESTICIDES

This enclosed cab does not protect against inhaling harmful pesticides. If pesticide use instructions require respiratory protection, wear an appropriate respirator inside the cab.

Before leaving the cab, wear personal protective equipment as required by the pesticide use instructions. When re-entering the cab, remove protective equipment and store either outside the cab in a closed box or some other type of sealable container or inside the cab in a pesticide resistant container, such as a plastic bag.

Clean your shoes or boots to remove soil or other contaminated particles prior to entering the cab.



DX,CABS -19-03MAR93

-UN-23AUG88

TS220

-UN-23AUG88

TS272

STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.



DX,PTO -19-12SEP95

-UN-22AUG95

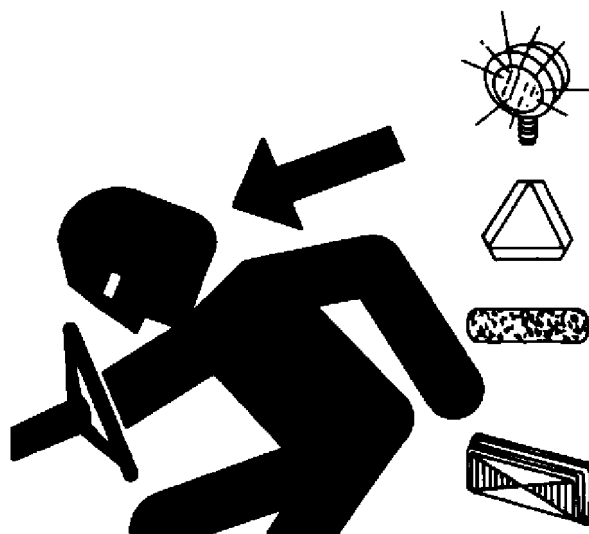
TS1644



USE SAFETY LIGHTS AND DEVICES

Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use hand signals or turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere dealer.



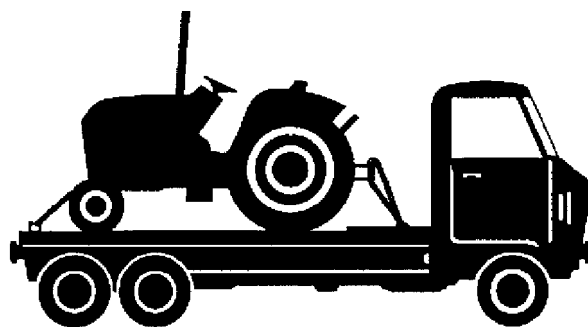
DX,FLASH -19-12SEP95

TS951 -UN-12APR90

SAFELY TRANSPORTING THE TRACTOR

A disabled tractor is best transported on a flatbed carrier. Use chains to secure the tractor to the carrier.

Never tow a tractor at a speed greater than 16 km/h (10 mph). An operator must steer and brake the tractor under tow.



AT,5NOM,4 -19-01SEP97

LV735 -UN-25JUN94



PRACTICE SAFE MAINTENANCE

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

Never lubricate, service, or adjust 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 on electrical systems or welding on machine.



DX,SERV

-19-03MAR93

TS218
-UN-23AUG88

REMOVE PAINT BEFORE WELDING OR HEATING

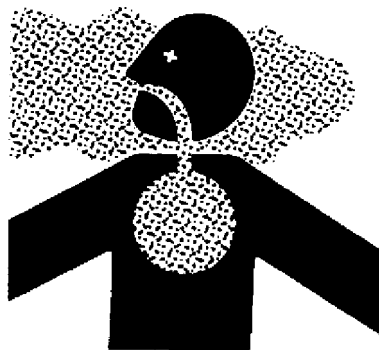
Avoid potentially toxic fumes and dust.

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.



DX,PAINT

-19-03MAR93

TS220
-UN-23AUG88



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.



DX,TORCH -19-03MAR93

TS953 -UN-15MAY90

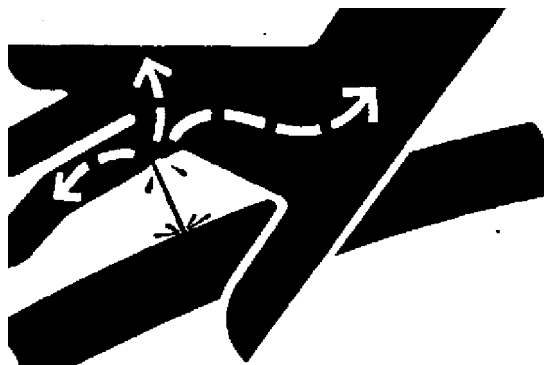
AVOID HIGH-PRESSURE FLUIDS

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.



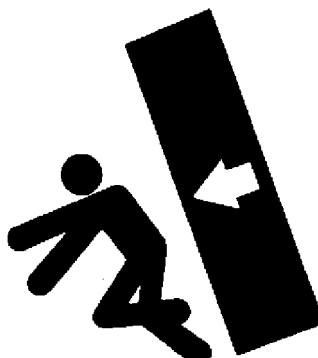
DX,FLUID -19-03MAR93

X9811 -UN-23AUG88

STORE ATTACHMENTS SAFELY

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



DX,STORE -19-03MAR93

TS219 -UN-23AUG88



Suggest:

If the above button click is invalid.

Please download this document first, and then click the above link to download the complete manual.

Thank you so much for reading



SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to relieve pressure before removing completely.

Add coolant only when the engine is shut off.



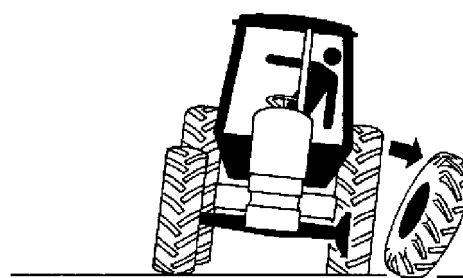
LX,RCAP

-19-01SEP95

TS281
-UN-23AUG88

RETIGHTEN WHEEL NUTS

Retighten wheel nuts at the intervals specified in Section "Break-In Period".



L124 516

AT,5SOM,149

-19-01JAN97

L124516
-UN-03JAN95

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>