

**8100, 8200, 8300
and 8400
Tractors**

**John Deere Waterloo Works
OMAR116319 Issue L5**

**European Edition
LITHO IN U.S.A.
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.



UN-04OCT94

RW65489

RX8000E,IFC -19-11OCT94

Contents

	Page		Page
Safety	05-1	Wheel and Axle Bolts	30-2
Safety Signs	10-1	Operating the Engine	
Controls and Instruments		Pre-Starting Checks	35-1
Front Console	15-1	Starting the Engine	35-2
Corner Post Tachometer	15-1	Restarting Stalled Engine	35-3
Side Console	15-2	Stopping the Engine	35-3
Armrest Controls	15-2	Field Cruise	35-4
Function Indicators	15-3	Cold Weather Starting	35-5
Vehicle Monitor	15-5	Starting Fluid	35-6
Display Functions	15-7	Auxiliary Heaters	35-6
Calibrating Tire Size-With Radar	15-8	Booster Battery	35-7
Calibrating Radar	15-9	Operating the Tractor	
Performance Monitor	15-10	Avoid Pesticides	40-1
Lights		Transmission	40-2
Operating Lights	20-1	Mechanical Front-Wheel Drive	40-10
Hazard	20-3	Differential Lock	40-11
Turn Signals, Horn, and High/Low Beam	20-3	Brakes	40-11
Seven-Terminal Outlet	20-4	Trailer Hydraulic Brakes	40-12
Nine-Terminal Connector	20-4	Trailer Air Brakes	40-12
Operator Station		Chock Blocks	40-13
Seat	25-1	Rear Three-Point Hitch	
Emergency Brake	25-2	Components and Controls	45-1
Heater/Air Conditioner	25-2	Hitch Operation	45-2
Windshield wiper	25-4	External Raise/Lower Switch	45-5
Steering Wheel	25-5	Draft Links	45-6
Clock	25-5	Attaching Implements	45-7
Accessory Electrical Outlet	25-6	Detaching Implements	45-8
Mobile Radio Antenna Installation	25-7	Positioning Center Link	45-9
Monitor Mounts	25-8	Center Link	45-9
Emergency Exit	25-8	Lift Link	45-10
Passenger Seat	25-9	Lateral Float	45-10
Electrical Rear View Mirror	25-10	Sway Blocks	45-11
Mechanical Rear View Mirror	25-10	Sway Stabilizers	45-12
Steps	25-11	Converting Hitch Category	45-13
Break-In Period		Trailer Hitch	45-13
Engine	30-1	Pickup Hitch	45-13

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.

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A John Deere ILLUSTRATION® Manual

Contents

	Page		Page
Electrohydraulic Depth Control			
Prepare Tractor	50-1	Towing Loads	80-2
Enable System	50-1	Towing Tractor	80-4
Attach Implement	50-3	Fuels, Lubricants, and Coolant	
Check Operation	50-3	Fuel	85-1
Detach Implement	50-5	Engine Oil	85-3
Restore SCV Control	50-5	Engine Coolant	85-4
Hydraulics and Selective Control Valves		Transmission-Hydraulic Oil	85-5
Hydraulics	55-1	MFWD Gear Oil	85-6
Cylinder Hoses	55-2	Grease	85-8
SCV Operation	55-4	Service	
Remote Hydraulic Connections		Front Grille	90-1
Hydraulic Components	60-1	Side Shields	90-2
Guidelines	60-2	Hood	90-3
Low-Pressure Return Circuit	60-3	Charging Batteries	90-4
Hydraulic Motor Return	60-4	High-Pressure Washers	90-4
Power Beyond	60-6	Service Interval Charts	90-5
Implement Hookup Examples	60-8	Service/Daily or Every 10 Hours	
Remote Cylinders	60-16	Check Engine Oil	95-1
Drawbar and PTO		Check Coolant	95-1
Drawbar	65-1	Drain Water Separator	95-1
PTO	65-3	Transmission-Hydraulic Oil	95-2
Optimum Performance/Ballast		MFWD Axle	95-3
Guidelines	70-1	Tires	95-3
Power Hop	70-3	Trailer Air Brake Accumulator	95-4
Measuring Wheel Slip	70-5	Service/250 Hours	
Determining Ballast	70-6	Change Engine Oil and Filter	100-1
Liquid Weight	70-7	Manual Brakes	100-2
Rear Cast Iron Weights	70-9	Batteries	100-3
Quik-Tatch™ Weights	70-10	Drain Fuel Tank Sump	100-5
Wheels, Tires, and Treads		Wheel Bolts	100-5
Guidelines	75-1	Neutral Start System	100-5
Inflation Pressures	75-2	Park Brake System	100-6
Tire Combinations	75-4	Secondary Brake Reservoir	100-6
Wheel and Axle Bolts	75-5	Cab Air Filters	100-7
MFWD Toe-In	75-6	Hitch and Lift Links	100-8
MFWD Tread Settings	75-7	MFWD Axle	100-8
Steering Stops	75-10	MFWD Housing and Wheel Hub Oil	100-9
Fenders	75-12	Rear Window Hinge	100-9
Adjusting Rear Wheels	75-13	Pickup Hitch	100-10
Rear Wheel Tread Settings	75-14	Trailer Hitch	100-10
Transport		Service/750 Hours	
Driving	80-1	Transmission/Hydraulic Filter	105-1
		Air Intake	105-1
		Engine Idle Speeds	105-2
		Clean Fuel Tank Vent Filter	105-2

Continued on next page

Contents

	Page		Page
Service/1500 Hours		Hydraulic System	140-6
Change Transmission-Hydraulic Oil	110-1	Brakes	140-6
Clean Oil Reservoir	110-2	Hitch	140-7
Clean Transmission Filter Screen	110-2	Electrohydraulic Hitch Control	140-8
Hydraulic Oil Suction Screen	110-2	Selective Control Valves	140-9
Change MFWD Hub and Axle Housing Oil	110-3	Electrical System	140-10
Fuel Injection Nozzles	110-3	Operator Enclosure	140-12
Draft Link Support Shaft Bushing	110-4	Tractor Operation	140-13
Belt Tensioner	110-4	Diagnostic Codes	145-1
Change Engine Fan Drive Oil	110-4	Storage	150-1
Service/2000 Hours		Specifications	155-1
Engine Valve Clearance	115-1	Identification Numbers	160-1
Service/Annual		Lubrication and Maintenance Charts	165-1
Air Cleaner	120-1	Glossary	170-1
Service/Two Years		Index	
Flush Cooling System-Replace Thermostats	125-1		
Service/4500 Hours or Five Years			
Engine Crankshaft Damper	130-1		
Service/As Required			
Transmission/Hydraulic Filter	135-1		
Fuel System Service	135-1		
Fuel Prefilter	135-2		
Water Separator	135-3		
Fuel Filter	135-4		
Bleed Fuel System	135-5		
Bleed Brakes	135-6		
Bleed Hydraulic Trailer Brake	135-7		
Bleed Secondary Brake	135-7		
Engine Compartment	135-8		
Grille Screens, Radiator, and Condenser	135-8		
Air Pre-Cleaner	135-9		
Air Cleaner	135-9		
Fan Belt	135-11		
Replace Lights/Bulbs	135-12		
Head Lights	135-16		
Fuses and Relays	135-17		
Air Conditioner	135-20		
Alternator Replacement	135-21		
Troubleshooting			
Engine	140-1		
Transmission	140-5		

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-07DEC68

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

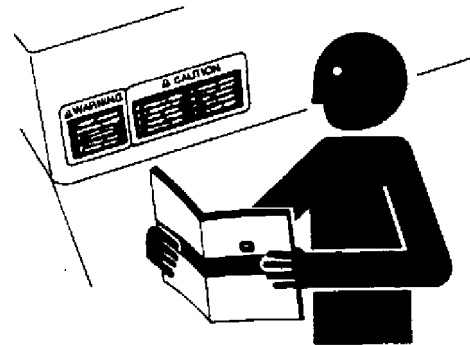
FOLLOW SAFETY INSTRUCTIONS

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.

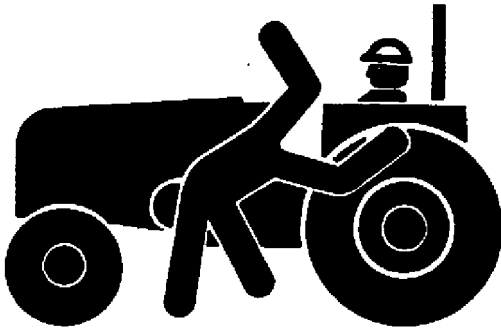


DX,READ -19-03MAR93

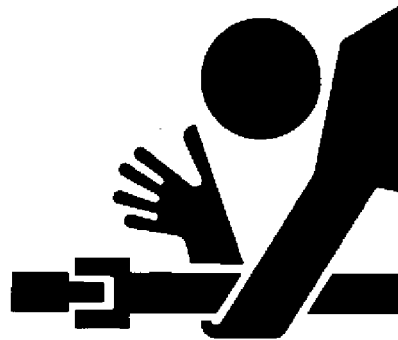
TS201 -UN-23AUG88



OPERATING THE TRACTOR SAFELY



TS213 -JUN-23AUG88



TS276 -JUN-23AUG88

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 from:

- 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:

- Put transmission in PARK before dismounting. Leaving transmission in gear with engine stopped will NOT prevent the 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, place in PARK, lower implements to the ground, stop the engine, and remove the key.
- Never go near an operating PTO or an operating implement.
- Always fasten your seat belt in a ROPS equipped tractor.

RX,HAZARD,S -19-22JUL94

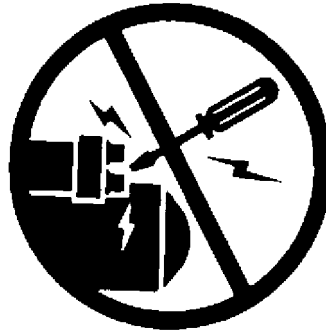


PREVENT MACHINE RUNAWAY

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.



DX,BYPAS1 -19-03MAR93

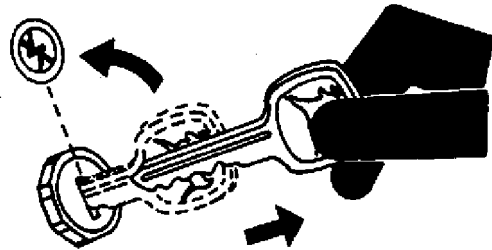
TS177 -UN-11JAN89

STOPPING AND PARKING TRACTOR

Tractor roll-over, collisions, runaway tractors, and people being crushed under machines and implements can happen when operators ignore safety.

To avoid these accidents, take some precautions:

- Signal before stopping, turning, or slowing down on public roads
- Pull over to side of road before stopping
- Slow down before braking
- Pump brakes when stopping on slippery surfaces
- Be careful when towing and stopping heavy loads
- Shift to park or apply parking brake
- Lower all equipment when leaving tractor
- Remove key



RX,STOP,PARK -19-21SEP92

TS230 -UN-24MAY89

USE SEAT BELT

Use a seat belt to minimize chance of injury from an accident such as a roll-over.



RX,ROPS1 -19-22SEP92

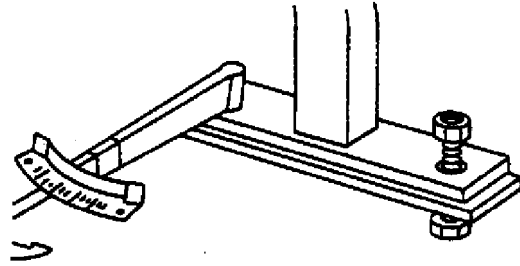
RW16064 -UN-05JAN89



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 will be 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.



DX,ROPS3 -19-03MAR93

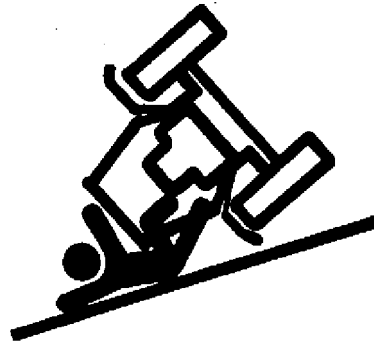
-UN-23AUG68
TS212

USE CAUTION ON HILLSIDES

Avoid holes, ditches, and obstructions which may cause tractor roll-over, especially on hillsides. Avoid sharp turns on hills.

Never drive near the edge of a gully or steep embankment.

Driving out of a ditch, mired condition, or up a steep slope could cause tractor to tip over rearward. Back out of these situations if possible.



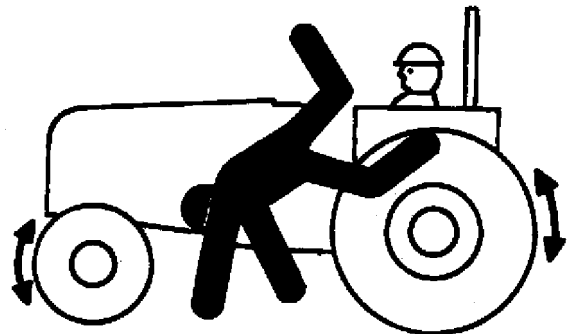
RX,HILL,SIDE1 -19-22SEP92

-UN-07DEC68
RW13093

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 of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



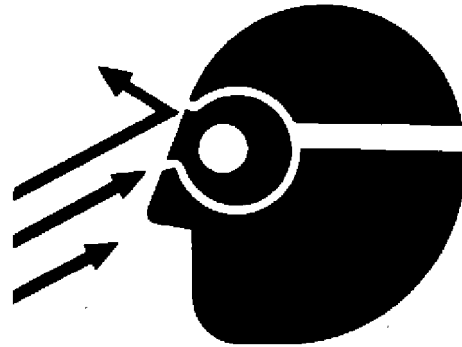
DX,RIDER -19-03MAR93

-UN-23AUG68
TS290



AVOID EYE CONTACT WITH RADAR

Radar ground speed sensor emits a very low intensity microwave signal. It will not cause any ill effects during normal use. Although intensity is low, DO NOT look directly into face of sensor while in operation, to avoid any possible eye damage.



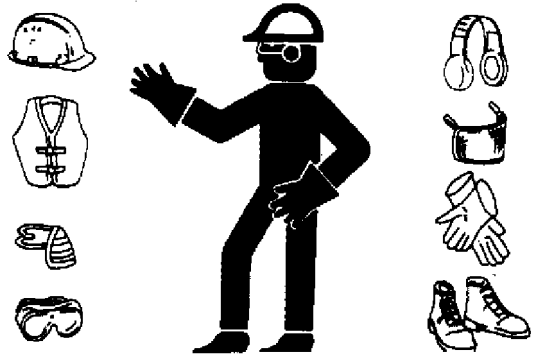
RX,SAFTY,RADAR1-19-21SEP92

TS266 -UN-23AUG88

WEAR PROTECTIVE CLOTHING

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

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



DX,WEAR2 -19-03MAR93

TS206 -UN-23AUG88

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.



DX,FIRE1 -19-03MAR93

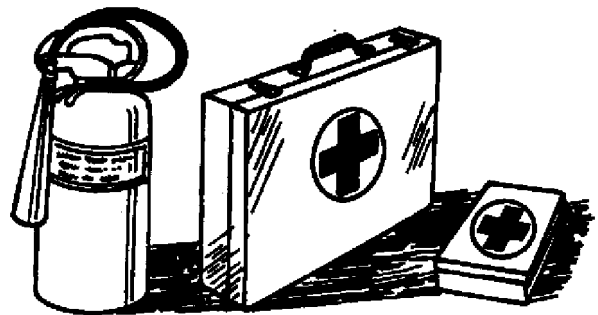
TS202 -UN-23AUG88

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



HANDLE STARTING FLUID SAFELY

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.



DX,FIRE3 -19-16APR92

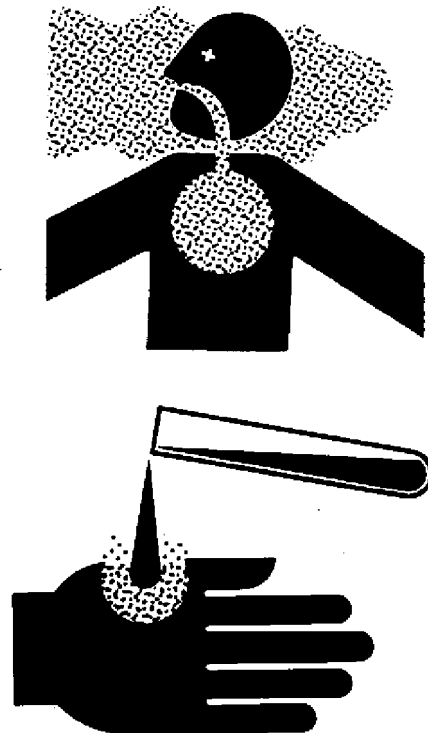
TS1356 -UN-18MAR92

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

TS220 -UN-23AUG88

TS272

-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.



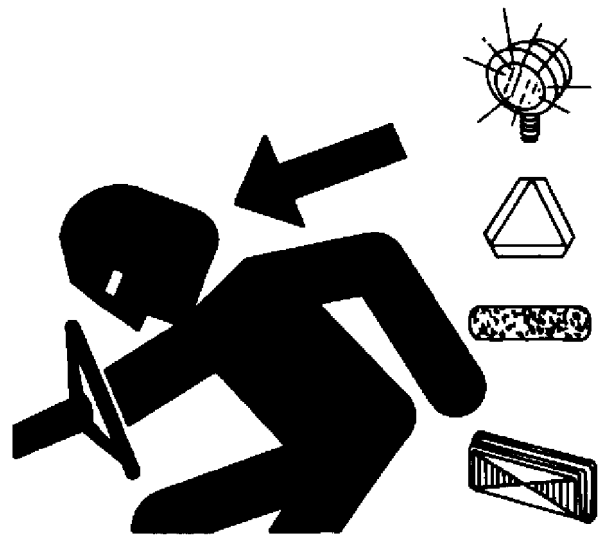
DX,PTO -19-12SEP95

TS1644 -UN-22AUG95

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

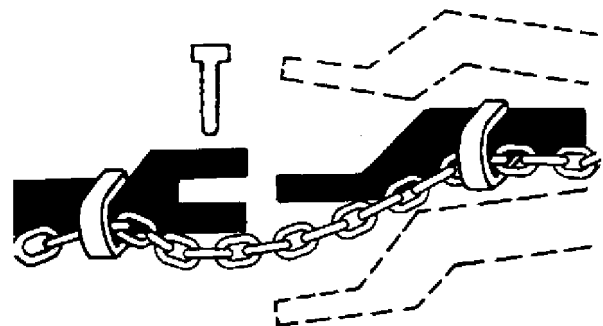
TS951 -UN-12APR90

USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



DX,CHAIN -19-03MAR93

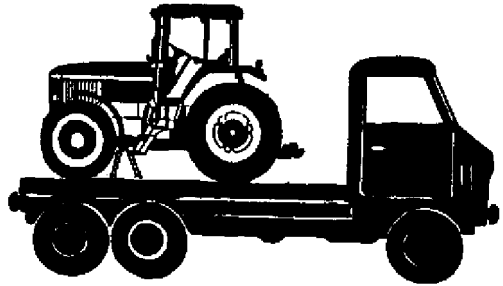
TS217 -UN-23AUG88



TRANSPORT TRACTOR SAFELY

Transport a disabled tractor on a flatbed carrier. Securely chain tractor to carrier.

If towing a tractor, never tow faster than 8 km/h (5 mph) with front or rear wheels raised or with all wheels on the ground. Have an operator steer and brake tractor.



RX,HAUL_8000 -19-14JUL94

RW22056 -UN-04DEC92

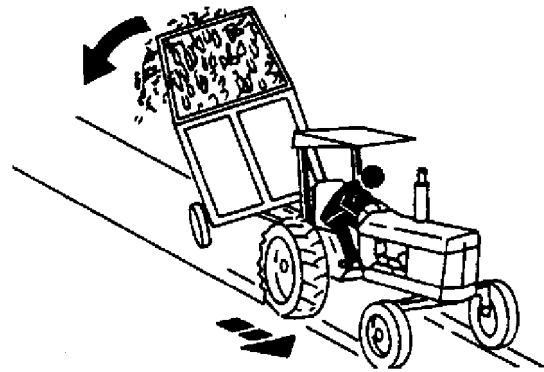
TOW LOADS SAFELY

Stopping distance increases with speed and weight of towed loads, and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control. Consider the total weight of the equipment and its load.

Observe these recommended maximum road speeds, or local speed limits which may be lower:

- If towed equipment does not have brakes, do not travel more than 32 km/h (20 mph) and do not tow loads more than 1.5 times the tractor weight.
- If towed equipment has brakes, do not travel more than 40 km/h (25 mph) and do not tow loads more than 4.5 times the tractor weight.

Ensure the load does not exceed the recommended weight ratio. Add ballast to recommended maximum for tractor, lighten the load, or get a heavier towing unit. The tractor must be heavy and powerful enough with adequate braking power for the towed load. Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.



DX,TOW -19-02OCT95

T5216 -UN-23AUG88

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