

455G and 555G TC and Direct Drive Crawler Loaders



JOHN DEERE

OPERATORS MANUAL 455G and 555G TC and Direct Drive Crawler Loaders

OMT163973 A8 English

John Deere Dubuque Works

OMT163973 A8

(This manual replaces T159859)

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 in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Machine 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.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

CALIFORNIA PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

MODT158728IFC7 -19-26SEP95-1/2

Introduction



T7931AH -UN-08FEB93

MODT158728IFC7 -19-26SEP95-2/2

Introduction

HELP!! HELP!! HELP!! HELP!!

We need your help to continually improve our technical publications. Please FAX or mail your comments, ideas and improvements.

SEND TO: John Deere Dubuque Works
P.O. Box 538
Dubuque, Iowa 52004-0538
Dept. 304
Attn: Publications Supervisor

FAX NUMBER: 319-589-5800

OMT163973 455G/555G TC and Direct Drive Crawler Loader Operator's Manual	
Ideas, Comments, (Please state Page Number):	

OVERALL, how would you rate the quality of "ALL" Operator's Manuals provided to you? (Check one)

Poor		Fair		Good		Very Good		Excellent	
1	2	3	4	5	6	7	8	9	10

Company Name
Address
Phone
FAX No.
Dealer Acct. No.

THANK YOU!

Contents

	Page		Page
Safety	05-1	Levers	10-13
Safety Signs		Battery Disconnect Switch—If Equipped	10-13
Safety Signs	06-1	Vandal Shield	10-13
Operator's Station		Adjust Non-Suspension Seat	10-14
Instrument Panel (S.N. —823918)	10-1	Adjust Suspension Seat—If Equipped	10-14
Instrument Panel (S.N. 823919—)	10-2	Adjust Armrest	10-15
Stop Engine Indicator and Alarm Indicator	10-3	Check Seatbelt	10-15
Service Required Indicator	10-3	Operator's Manual Holder	10-15
Engine Oil Pressure Indicator	10-3	Horn Switch	10-16
Engine Coolant Temperature Indicator	10-4	Operating Lights—If Equipped	10-17
Engine Alternator Voltage Indicator	10-4	Break-In	
Transmission Oil Temperature Indicator	10-4	Observe Engine Operation Closely	15-1
Transmission Oil Filter Indicator	10-5	After the First 10 Hours	15-1
Hydraulic Oil Filter Indicator	10-5	Between the First 50 to 100 Hours—	
Instrument Panel—Gauges—If Equipped		After Sales Inspection (ASI)	15-2
(S.N. —823918)	10-6	Pre-Start Inspection	
Instrument Panel—Gauges—If Equipped		Inspect Machine Daily Before Starting	20-1
(S.N. 823919—)	10-7	Operating the Engine	
Fuel Gauge	10-7	Check Instruments Before Starting—	
Engine Water Temperature Gauge—If		Instrument Panels With Indicators Only	25-1
Equipped	10-8	Check Instruments Before Starting—	
Engine Oil Pressure Gauge—If Equipped	10-8	Instrument Panels With Gauges	25-1
Transmission Oil Temperature Gauge—If		Starting the Engine	25-2
Equipped	10-8	Starting Fluid—If Equipped (Cold Weather	
Low Voltage Indicator Light—If Equipped	10-8	Starting Aid)	25-4
Transmission Oil Filter Indicator Light—If		Using Coolant Heater—If Equipped	25-5
Equipped	10-9	Using Booster Batteries With Jumper	
Hydraulic Oil Filter Restriction Indicator		Battery Terminal—If Equipped	25-6
Light—If Equipped	10-9	Using Booster Batteries—12 Volt System	25-7
Transmission Oil Pressure Indicator Light—		Check Instruments After Starting—	
If Equipped	10-9	Instrument Panels With Indicators Only	25-8
Loader Control Lever	10-10	Check Instruments After Starting—	
Pedals With Lever Steering— If		Instrument Panels With Gauges Only	25-8
Equipped—Torque Converter Machines	10-10	Engine Warm-Up	25-8
Pedals With Lever Steering— If		Engine Cold Weather Warm-Up	25-9
Equipped—Direct Drive Machines	10-11	Stopping the Engine	25-10
Pedals With Pedal Steering— If		Adjusting Engine for High Elevation	25-10
Equipped—Direct Drive Machines	10-11		
Pedals With Pedal Steering— If			
Equipped—Torque Converter Machines	10-12		
Steering Levers—If Equipped	10-12		

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.

COPYRIGHT © 1998
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION® Manual
Previous Editions
Copyright © 1994,1996

Contents

	Page		Page
Driving the Machine		Greasing Multi-Purpose Bucket	
Driving the Machine	30-1	Greasing Log Loader Pivots	36-22
Using Park and Brake Lock Lever	30-1	Transporting	
Shifting the Transmission	30-2	Loading Machine on a Trailer	40-1
Decelerator Pedal	30-3	Towing Procedures	40-2
Using Power Control Pedal—Direct		Fuels and Lubricants	
Drive Machines—If Equipped	30-3	Diesel Fuel	45-1
Using Engine Speed Control Lever	30-4	Diesel Fuel Storage	45-2
Steering the Machine with Lever Steering—		Fuel Tank	45-3
If Equipped	30-4	Low Sulfur Diesel Fuel Conditioner	45-3
Steering the Machine with Pedal Steering—		Diesel Engine Oil	45-4
If Equipped	30-5	Winch Oil	45-5
Travel Speeds	30-5	Final Drive Oil	45-6
Stopping the Machine	30-6	Track Roller, Front Idler, and Carrier	
Emergency Stopping—Pedal Steering	30-7	Roller Oil	45-6
Emergency Stopping—Lever Steering	30-8	Transmission, Steering Clutches, and	
Parking the Machine	30-9	Hydraulic Oil	45-7
Lock All Compartments	30-9	Grease	45-8
Operating the Machine		Lubricant Storage	45-8
Operating Boom and Bucket Control Lever	35-1	Alternative and Synthetic Lubricants	45-9
Operating Tips	35-2	Mixing of Lubricants	45-9
Operating and Maintenance		Periodic Maintenance	
Undercarriage Tips	35-3	Service Your Machine at Specified Intervals	50-1
Loading Bucket Using Boom Raise	35-4	Check the Hour Meter Regularly	50-2
Loading Bucket Using Bucket Rollback	35-5	Use Correct Fuels and Lubricants	50-3
Loading Bucket From a Bank	35-5	Loader Locking Bar	50-3
Excavating With a Crawler Loader	35-6	Prepare Machine for Maintenance	50-3
Attachments		Remove Bottom Guard	50-5
Attaching Backhoe to Crawler Tractor	36-1	Maintenance and Repair Record	
Detaching Backhoe from Crawler Tractor	36-3	Keeping System	50-5
Prepare to Operate Backhoe	36-6	OILSCAN Plus [®] , CoolScan [™] 3-WAY [™]	
Backhoe Engine Speed	36-7	Test Kit	50-6
Control Levers	36-7	Maintenance and Repair Record	
Selector Valve Control Lever Crawler		Keeping System	50-7
Loader Only	36-8	Maintenance—As Required	
Operating Stabilizers	36-9	Check and Adjust Belt Tension (S.N. —	
Backhoe Control Levers—John Deere		840460)	55-1
Pattern	36-10	Inspect Serpentine Belt (S.N. 840461—)	55-2
Changing Backhoe Bucket Position	36-11	Check the Air Restriction Indicator	55-2
Lifting	36-12	Check the Pre-Cleaner	55-2
Bucket Digging	36-14	Check Track Sag	55-3
Crowd Digging	36-15	Adjust Track Sag	55-4
Planning Spoil Piles	36-15	Drain Fuel Tank Sump	55-7
Preparing to Operate Loader/Dozer After		Maintenance—Every 10 Hours Or Daily	
Operating Backhoe	36-16	Check Engine Oil Level	60-1
Operating Winch	36-17	Check Transmission Oil Level	60-1
Fasten Cable to Winch Drum—4000 Series	36-18		
Winch Free Spool Drag Adjustment	36-20		
Greasing Winch Fairlead—If Equipped	36-21		
Greasing Ripper—If Equipped	36-21		
Greasing Log Arch—If Equipped	36-21		

Continued on next page

	Page		Page
Check Hydraulic Oil Level	60-2		
Check Coolant Level	60-3		
Grease Bucket Pivot.	60-4		
Grease Backhoe—If Equipped	60-5		
 Maintenance—Every 100 Hours			
Grease Boom Linkage and Cylinders	70-1		
Grease Track Adjuster Cylinder (Serial No. — 745426)	70-2		
 Maintenance—Every 250 Hours			
Change Engine Oil and Filter	75-1		
Check Final Drives Oil Level	75-2		
Clean Transverse Case	75-2		
Check Coolant Level—Later Machines	75-3		
 Maintenance—Every 500 Hours			
Change Fuel Filter (S.N. —840460)	80-1		
Change Fuel Filter/Water Separator (S.N. 840461—)	80-3		
Check Air Intake Hose	80-4		
Replace Transmission Oil Filter	80-5		
Replace Hydraulic System Oil Filter	80-7		
Replace Hydraulic Reservoir Breather Filter	80-7		
Check Battery Electrolyte Level and Terminals	80-8		
Check Coolant Conditioner In Radiator.	80-10		
 Maintenance—Every 1000 Hours			
Check Transmission Accumulator—Direct Drive Machines	85-1		
Change Hydraulic System Oil and Clean Suction Screen	85-1		
Change Transmission Oil and Clean Suction Screen	85-4		
Change Final Drives Oil	85-8		
Check Engine Speed	85-9		
Check and Adjust Engine Speed Control Linkage Without Declutch	85-10		
Check and Adjust Engine Speed Control Linkage With Declutch—Direct Drive Machines—If Equipped	85-12		
Clean Engine Crankcase Ventilation Tube	85-13		
Measure and Adjust Engine Valve Clearances (S.N. —840460)	85-14		
Drain the Cooling System.	85-15		
Check Hoses and Radiator.	85-16		
Diesel Engine Coolant	85-17		
Fill the Cooling System.	85-17		
Test the Coolant Freeze—Protection Level	85-18		
 Maintenance—Every 2000 Hours			
Measure and Adjust PowerTech Engine Valve Clearances (S.N. 840461—)	86-1		
 Maintenance			
Checking Hoses and Radiator	90-1		
Test the Coolant Freeze—Protection Level	90-2		
Do Not Service Injection Nozzles	90-2		
Do Not Change Injection Pump	90-3		
Draining Fuel Filter Sediment	90-3		
Checking Fuel Filler Screen	90-4		
Cleaning Fuel Tank Outlet Screen—Earlier Machines	90-4		
Cleaning Fuel Tank Outlet Screen—Later Machines	90-5		
Fuel Shut-Off	90-6		
Inspect Air Cleaner Elements Restriction Indicator	90-7		
Cleaning Dusty Primary Element	90-8		
Inspecting Element	90-8		
Precautions for Alternator and Regulator	90-9		
Service Batteries Carefully	90-10		
Checking Electrolyte Specific Gravity	90-11		
Using Battery Charger	90-12		
Replacing Batteries	90-13		
Removing Batteries	90-14		
Resetting Circuit Breakers	90-15		
Changing Reverse Warning Alarm Volume.	90-16		
Check Neutral Start System	90-17		
Adding Attachments/Accessories to Roll-Over Protective Structure (ROPS)	90-17		
Track Sag General Information.	90-18		
Remove and Install Lubricated Track Chain	90-19		
Check Front Idler Vertical Movement	90-23		
Idler Height Adjustment	90-24		
Checking Track Carrier Roller Oil Level	90-29		
Checking Idler Oil Level	90-31		
Checking Track Roller Oil Level	90-33		
Adjusting Steering Brake (Serial No. — 770807)	90-35		
Adjusting Steering Brake (Serial No. 770808—)	90-38		
Return-to-Dig Adjustment	90-40		
Check Fire Extinguisher—If Equipped	90-41		
Reversible Fan—If Equipped	90-41		
Do Not Service Control Valves and Cylinders.	90-42		
Hardware Torque Specifications	90-42		
Keep ROPS Installed Properly	90-42		
Welding on Machine.	90-43		
Check Track Shoe Torque	90-44		

Continued on next page

Contents

	Page		Page
Unified Inch Bolt and Cap Screw Torque Values	90-45	Power Control Clutch Valve Check	95-9
Metric Bolt and Cap Screw Torque Values	90-47	Driving Checks	95-9
Service Recommendations for 37° Flare and 30° Cone Seat Connectors	90-48	Transmission Slip Check	95-9
Check Oil Lines and Fittings	90-49	Transmission Noise Check	95-10
Service Recommendations for O-Ring Boss Fittings	90-50	Transmission Sealing Check	95-10
Service Recommendations for Flat Face O-Ring Seal Fittings	90-52	Hydraulic System Checks	95-10
Service Recommendations for Inch Series Four Bolt Flange Fittings	90-53	Visual Check	95-10
Service Recommendations for Metric Series Four Bolt Flange Fitting	90-55	Hydraulic Warm-Up Procedure	95-11
Operational Checkout		Oil Cooler Circuit Check (If Equipped)	95-11
Operational Checkout	95-1	Hydraulic Reservoir Breather Check	95-11
Indicators, Shift Lever Linkage and Reverse Warning Alarm Checks (With Engine Off)	95-2	Return-To-Dig Check (Loader If Equipped)	95-12
Monitor Indicator Lights And Alarm Checks	95-2	Undercarriage Checks	95-12
Engine Low Pressure And Alternator Low Voltage Monitor Indicator Light Checks	95-2	Track Sag Roller And Idler Leakage Checks	95-12
Air Restriction Indicator Check	95-3	Sprocket Wear Check	95-13
Shift Lever Linkage And Reverse Warning Alarm Check	95-3	Grouser Wear, Bent Track Shoe, And Loose Hardware Checks	95-13
Park And Brake Lock Check	95-3	Track Link Roller And Front Idler Wear Checks	95-13
Neutral Start Switch and Start Circuit Checks	95-4	Accessory Checks	95-14
Neutral Start Switch Check	95-4	Horn Circuit Check	95-14
Start Circuit Check	95-4	Hour Meter Circuit Check	95-14
Engine Speed Control and Decelerator Checks	95-4	Work Light Check	95-14
Engine Speed Control Lever Linkage Check	95-4	Seat Adjustment Checks	95-15
Decelerator Linkage Check	95-5	Seat Height And Backrest Adjustment Checks (Non-Suspension)	95-15
Speed Control Lever Linkage Check	95-5	Seat Height And Backrest Adjustment Checks (Suspension Seat)	95-15
Brake System Checks	95-6	Seat Belt Check	95-15
Brake Pedal Upper Stop And Return Spring Check	95-6	Start Aid System Check (If Equipped)	95-16
Brake Drag, Park, And Brake Lock Linkage Check	95-6	Fuel Shut-Off Valve Check—Earlier Machines	95-16
Brake Check	95-6	Fuel Shut-Off Valve Check—Later Machines	95-16
Steering System Checks (Steering Clutches and Brakes)	95-7	Vandal Protection Checks	95-17
Steering Clutch Engagement Check (Pedal Steer)	95-7	Service Decal Check	95-17
Hydraulic System Warm-Up Procedure	95-7	Troubleshooting	
Steering Clutch Adjustment Check	95-7	Using Troubleshooting Charts	100-1
Steering Clutch Adjustment Check (Continued)	95-8	Engine	100-2
Steering Brake Operation Check	95-8	Electrical System	100-10
Power Control Pedal Checks—Direct Drive Machines	95-8	Hydraulic System	100-14
Power Control Clutch Drag Check	95-8	Power Train	100-17
		Gauges and Indicators	100-21
		Storage	
		Prepare Machine for Storage	105-1
		Monthly Storage Procedure	105-2
		Crime Prevention Tips	
		Help Prevent Crime	110-1

Continued on next page

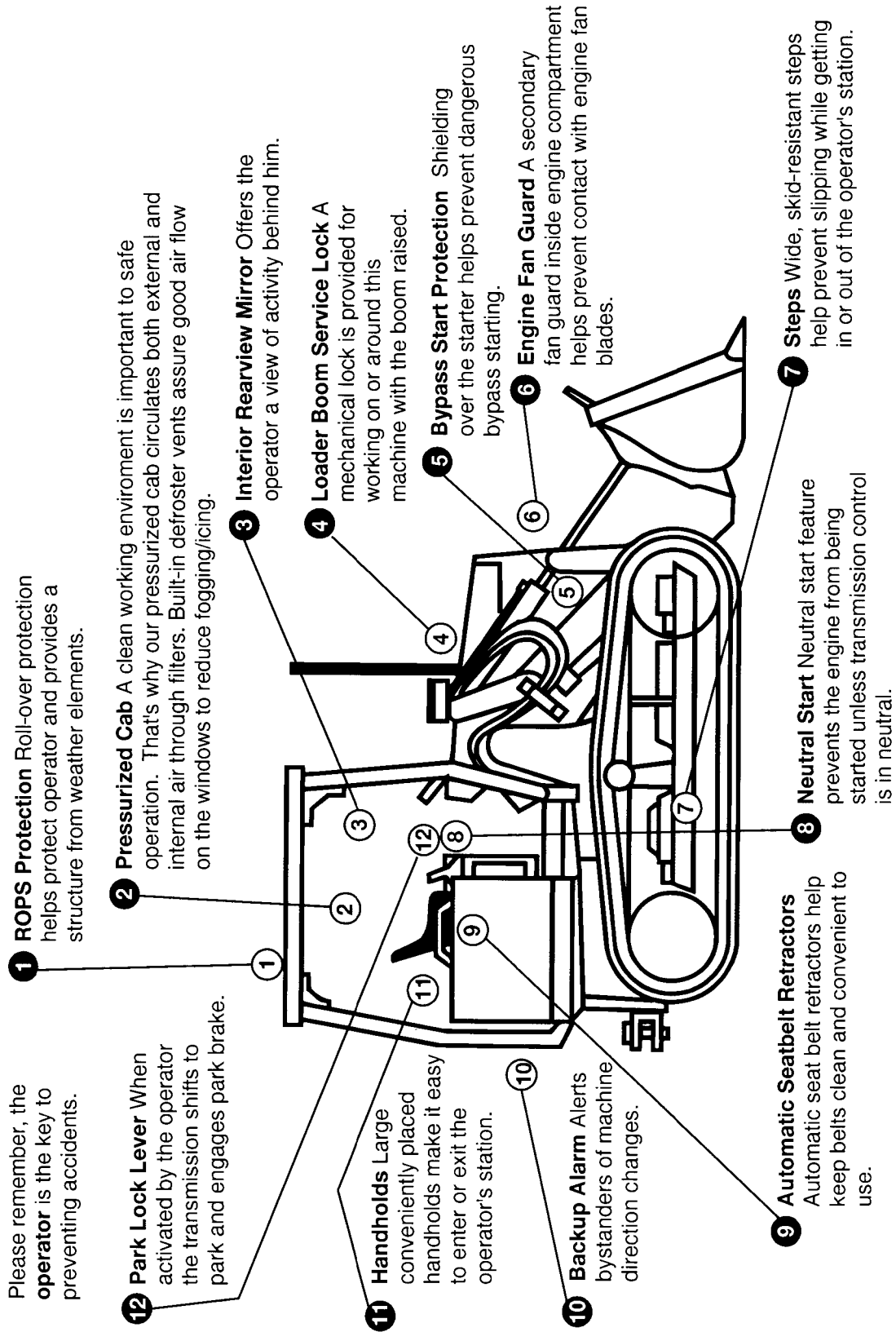
Contents

	Page
Record Identification Numbers	110-1
Keep Proof Of Ownership	110-1
Park Indoors Out Of Sight	110-2
When Parking Outdoors	110-2
Reduce Vandalism	110-2
Report Thefts Immediately	110-3
 Specifications	
455G Specifications	115-1
455G Operating Information	115-5
455G Drain and Refill Capacities	115-6
555G Specifications	115-7
555G Drain and Refill Capacities	115-11
9310 Backhoe Specifications	115-12
9310 Lift Capacity (G Series Loaders)	115-13
4000 Winch	115-14
 Machine Numbers	
General	120-1
Record Engine Serial Number	120-1
 John Deere Service Literature Available	
Technical Information	SLIT-1
 Checklists	
	CLIS-1
 John Deere Service Keeps You On the Job	
John Deere Is At Your Service When You Need It	IBC-1

Contents

Safety

JOHN DEERE CRAWLER SAFETY FEATURES



T112581

T112581 -UN-22DEC97

TX,05,78135 -19-22OCT96-1/1

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.



T81389 -UN-07DEC88

DX,ALERT -19-03MAR93-1/1

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.



▲ WARNING

▲ CAUTION

TS187 -19-30SEP88

DX,SIGNAL -19-03MAR93-1/1

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.



TS201 -UN-23AUG88

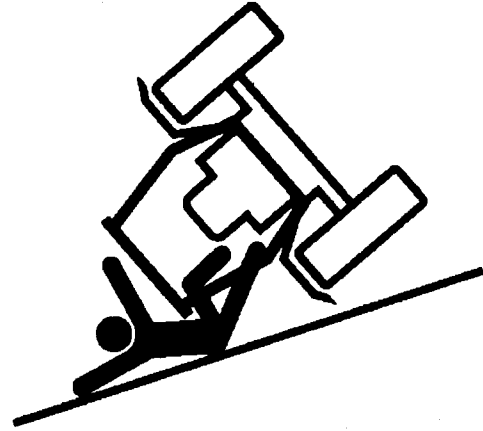
DX,READ -19-03MAR93-1/1

AVOID INJURY FROM ROLLOVER ACCIDENTS

WEAR YOUR SEAT BELT

DO NOT ATTEMPT TO JUMP CLEAR OF TIPPING MACHINE--SERIOUS OR FATAL CRUSHING INJURIES WILL RESULT

MACHINE WILL TIP OVER FASTER THAN YOU CAN JUMP FREE



To avoid rollovers:

Be careful when operating on a slope.

Avoid sharp turns.

Balance loads so weight is evenly distributed and load is stable.

Carry tools and loads close to the ground to aid visibility and lower center of gravity.

Reduce speed before turning or swinging load.

Know capacity of machine. Do not overload.

Be careful when operating at the edge of an excavation, trench, or drop-off, and loading or unloading from a trailer.

Read and understand the operating instructions in the operator's manual.



**USE
SEAT
BELT**

T7242EA -19-22FEB90

TX,05,RR,490 -19-05JUN91-1/1

**AVOID INJURY FROM BACKOVER
ACCIDENTS**

**BEFORE MOVING MACHINE, BE SURE ALL
PERSONS ARE CLEAR OF AREA**

**ALWAYS BE ALERT FOR BYSTANDERS
MOVING INTO THE WORK AREA. USE
HORN OR OTHER SIGNAL TO WARN
BYSTANDERS BEFORE MOVING MACHINE**

**WHEN USING A SIGNAL PERSON, KEEP
PERSON IN VIEW AT ALL TIMES, BE SURE
SIGNAL PERSON IS CLEAR BEFORE
BACKING UP**



T7241AY -UN-21FEB90

To avoid backover accidents:

Always look around before you back up. Be sure that everyone is in the clear.

Keep bystanders away from pivot area of an articulated machine.

Keep reverse warning alarm in working condition

Use a signal person when backing up if view is obstructed. Always keep signal person in view.

Learn the meaning of all flags, signs, and markings used on the job and who has the responsibility for signaling.

Keep windows, mirrors, and lights clean and in good condition.

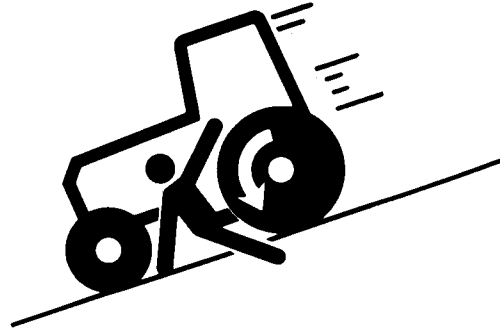
Dust, heavy rain, fog, etc., can reduce visibility. As visibility decreases, reduce speed and use proper lighting.

Read and understand the operating instructions in this operator's manual.

AVOID INJURY FROM ROLLAWAY ACCIDENTS

TO PREVENT ROLLAWAY, ALWAYS MAKE SURE MACHINE IS PROPERLY SECURED BEFORE LEAVING OPERATOR'S SEAT

DEATH OR SERIOUS INJURY MAY RESULT IF YOU ATTEMPT TO MOUNT OR STOP A MOVING MACHINE



T7241AZ -UN-21FEB90

To avoid rollaways:

Select level ground when possible to park machine.

Place transmission controls in park.

Lower all equipment to ground.

Stop the engine.

Block tracks if you must park on a grade, position machine to prevent rolling.

Park a reasonable distance from other machines.

Read and understand the operating instructions in this operator's manual.

TX,05,RR2912 -19-08FEB93-1/1

INSPECT MACHINE

Inspect your machine carefully each day by walking around it before you start it. (See Pre-Start Inspection Chapter.)



T6607AQ -UN-18OCT88

T82,BHSA,CL -19-14MAR90-1/1

MAINTAIN SEAT BELT

It is important to use the seat belt on ROPS equipped machines to minimize the chance of injury from an accident such as an overturn. Keep the seat belt in good condition.

The complete seat belt assembly should be replaced after three years of usage, regardless of appearance .

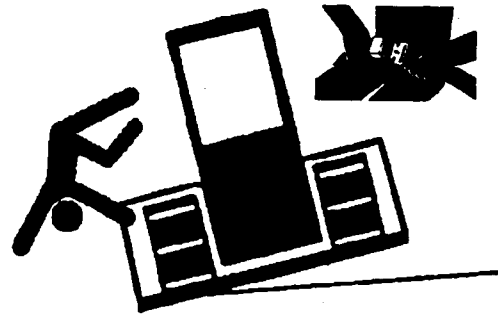
Between replacement intervals:

Carefully examine buckle, webbing, and attaching hardware.

Be sure that the retractor, if equipped, locks to prevent belt extension after latching buckle.

Be sure that attaching hardware is in place. Tighten, if necessary.

Replace the seat belt if it does not operate properly, or if it is damaged, worn, or deteriorated.



T7860AQ -UN-09NOV92

TX,05,DY126 -19-23JAN96-1/1

USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump either on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.



T6981AN -UN-15JUN89

02T,05,K69 -19-14MAR90-1/1

PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machine 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 park.



T6607AO -UN-18OCT88

TX,05,RR2913 -19-08FEB93-1/1

USE SEAT BELT PROPERLY

Use a seat belt when you operate with a roll-over protective structure (ROPS) or cab to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS or cab.



T7860AQ -UN-09NOV92

TX,05,RR2734 -19-08FEB93-1/1

OPERATING ON SLOPES

Avoid side slope travel whenever possible. The danger of tipping is always present.

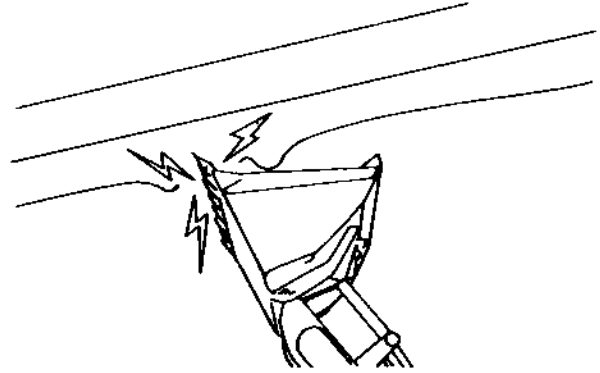
In steep slope operation, do not allow engine to overspeed. Select proper gear speed before starting down slope.

The grade of the slope you should attempt will be limited by such factors as ground condition, and load being handled.

02T,05,M15 -19-07JAN91-1/1

AVOID POWER LINES

Keep away from power lines. Serious injury or death may result. Never move any part of the machine or load closer to power line than 10 ft (3 m) plus twice the line insulator length.



T6884BE -UN-18OCT88

02T,05,M57 -19-30AUG88-1/1

PARK MACHINE SAFELY

Before working on the machine:

- Park machine on a level surface.
- Lower equipment to the ground.
- Move transmission shift lever to neutral.
- Move park and brake lock lever to lock position.
- Run engine at 1/2 speed no load for 2 minutes.
- Move speed control lever to slow idle position.
- Turn key switch to OFF to stop engine. (If maintenance must be performed with engine running, do not leave machine unattended.)
- Remove key from switch.
- Release hydraulic pressure by moving control lever until equipment does not move.
- Attach a "Do Not Operate" tag on the metal loop at the top of the instrument panel.
- Turn battery disconnect switch off.
- Allow engine to cool.

TX,05,FF2232 -19-03JAN91-1/1

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.

02T,05,J44 -19-19JAN88-1/1

HANDLE FLUIDS 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.



TS202 -UN-23AUG88

TX,05,FF1622 -19-14JUN90-1/2

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.



TS227 -UN-23AUG88

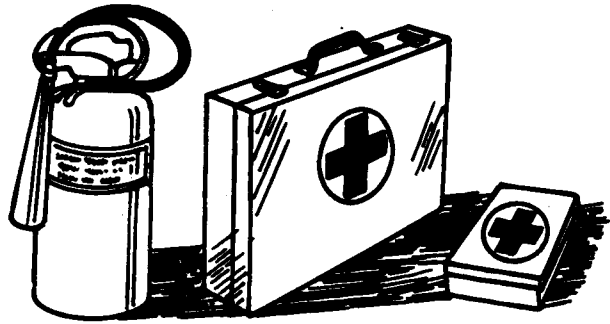
TX,05,FF1622 -19-14JUN90-2/2

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.



TS291 -UN-23AUG88

DX,FIRE2 -19-03MAR93-1/1

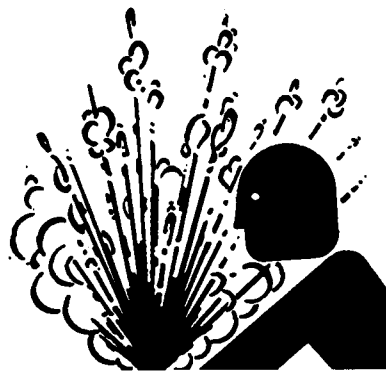
HANDLE STARTING FLUID SAFELY

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.



T6464AV -UN-18OCT88

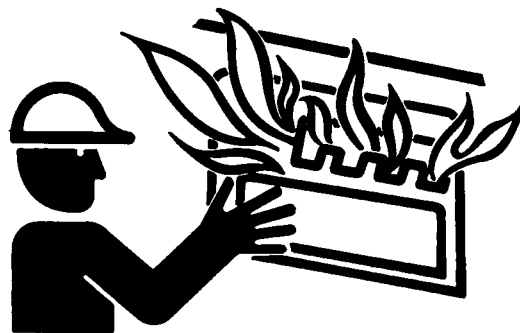
02T,05,M38 -19-22FEB90-1/1

CLEAN TRASH FROM MACHINE

Keep engine compartment, radiator, batteries, hydraulic lines, fuel tank, and operator's station clean.

Temperature in engine compartment may go up immediately after engine is stopped. **BE ON GUARD FOR FIRES DURING THIS PERIOD.**

Open access door(s) to cool the engine faster, and clean engine compartment.

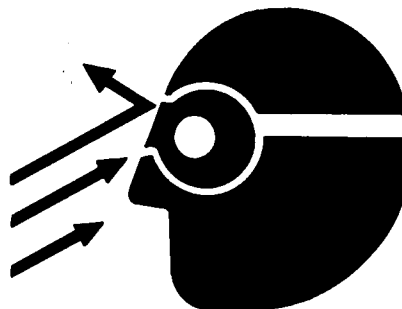


T6669AG -UN-18OCT88

02T,05,J33 -19-14MAR90-1/1

PROTECT AGAINST FLYING DEBRIS

When you drive connecting pins in or out, guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.



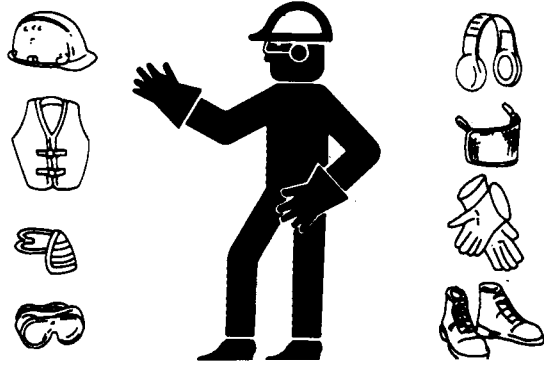
T6642DK -UN-18OCT88

02T,05,J45 -19-30MAY90-1/1

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.



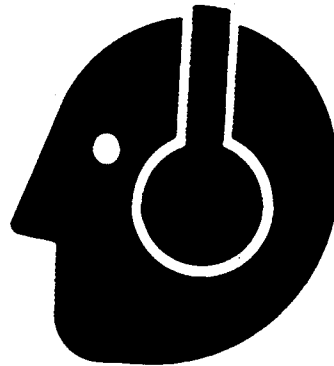
DX,WEAR2 -19-03MAR93-1/1

TS206 -UN-23AUG88

PROTECT AGAINST NOISE

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.



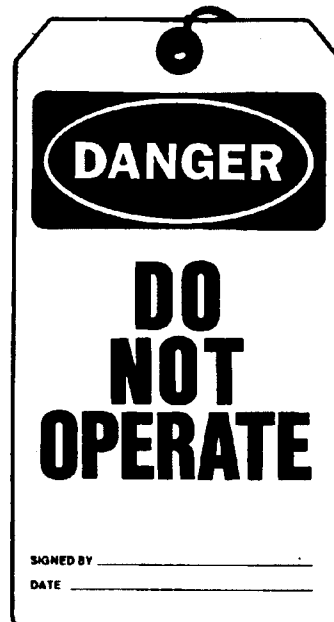
DX,NOISE -19-03MAR93-1/1

TS207 -UN-23AUG88

WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the machine, attach a "DO NOT OPERATE" tag to the vandal cover latch.



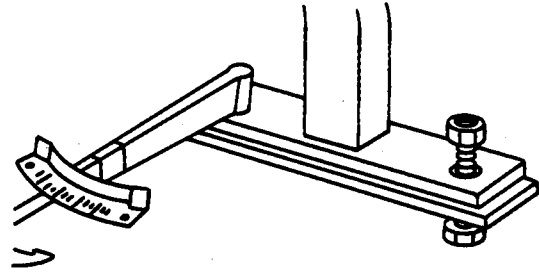
TX,10,RR2401 -19-03AUG92-1/1

TT447AO -19-22APR91

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.



TS212 -UN-23AUG88

DX,ROPS3 -19-03MAR93-1/1

SUPPORT RAISED EQUIPMENT

Put a support (A) under all raised equipment. Never work under raised equipment without a support.

If a support is not available, lower equipment to ground.



T7931A1 -UN-02FEB93

02T,05.M10 -19-08FEB93-1/1

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.

Before servicing machine:

- Park machine on a level surface.
- Lower equipment to the ground.
- Move transmission shift lever to neutral.
- Move park and brake lock lever to lock position.
- Run engine at 1/2 speed no load for 2 minutes.
- Move speed control lever to slow idle position.
- Turn key switch to OFF to stop engine. (If maintenance must be performed with engine running, do not leave machine unattended.)
- Remove key from switch.
- Release hydraulic pressure by moving control lever until equipment does not move.
- Attach a "Do Not Operate" tag on the metal loop at the top of the instrument panel.
- Turn battery disconnect switch off.
- Allow engine to cool.

If maintenance procedure must be performed with engine running, do not leave machine unattended.

Support any machine element that must be raised for service work. Never work under a machine supported by a jack.

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.



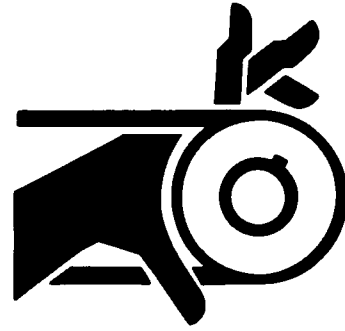
TS218 -UN-23AUG88

TX,05,FF2231 -19-12JAN93-1/1

STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



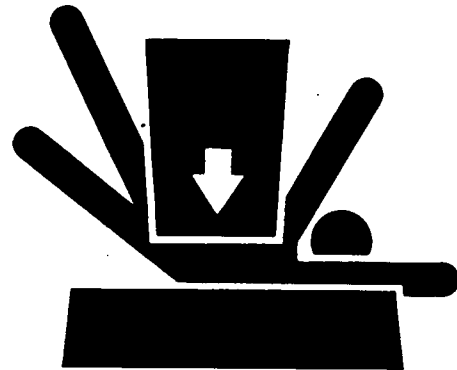
T7273AS -UN-08JUN90

TX,05,RR,572 -19-12JUN90-1/1

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.



TS229 -UN-23AUG88

DX,LOWER -19-04JUN90-1/1

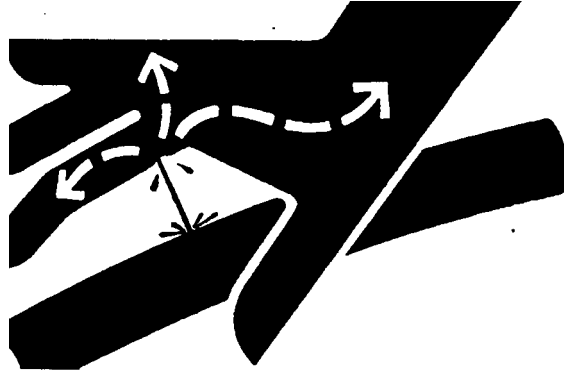
AVOID HIGH-PRESSURE FLUIDS

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 -JUN-23AUG88

DX,FLUID -19-03MAR93-1/1

DISPOSE OF WASTE PROPERLY

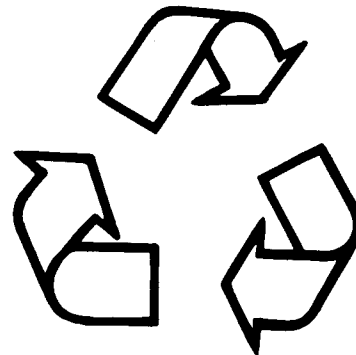
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



TS1133 -JUN-26NOV90

DX,DRAIN -19-03MAR93-1/1

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.



TS220 -UN-23AUG88

DX,PAINT -19-03MAR93-1/1

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.



TS953 -UN-15MAY90

DX,TORCH -19-03MAR93-1/1

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).

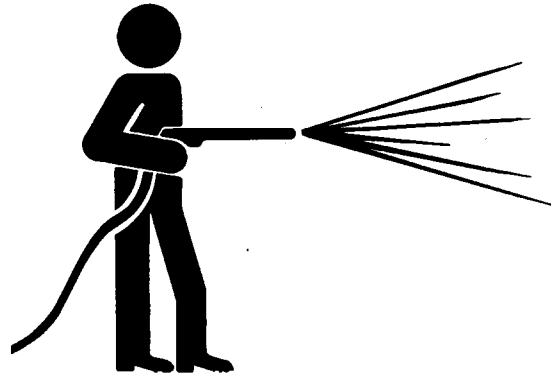


TS204 -UN-23AUG88

DX,SPARKS -19-03MAR93-1/1

CLEAN THE MACHINE REGULARLY

Remove any grease, oil or debris build-up to avoid possible injury or machine damage.



T6642EJ -UN-18OCT88

02T,05,M40 -19-22FEB90-1/1

STORE ATTACHMENTS SAFELY

Stored attachments such as buckets, hydraulic hammers, and blades 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.



TS219 -UN-23AUG88

TX,05,RR,576 -19-26APR90-1/1

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 first stop to relieve pressure before removing completely.



DX,RCAP -19-04JUN90-1/1

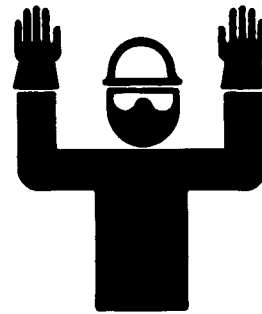
TS281 -UN-23AUG88

TRAVEL SAFELY

Know the location of bystanders before moving the machine.

Always keep the reverse warning alarm in working condition. It warns people when the machine starts to move in reverse.

Use a signal person when moving the machine in congested areas. Coordinate hand signals before starting the machine.



TX,05,DH496 -19-02AUG89-1/1

T6964AD -UN-20DEC88

DISPOSE OF WASTE PROPERLY

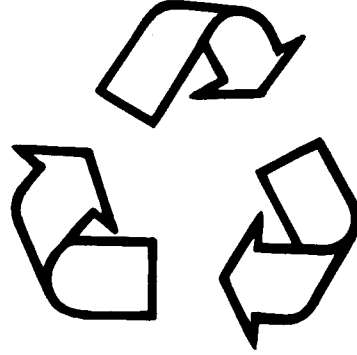
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



TS1133 -UN-26NOV90

DX,DRAIN -19-03MAR93-1/1

This as a preview PDF file from best-manuals.com



Download full PDF manual at best-manuals.com