

CTS
Combines
(From Serial No. 677551)

John Deere Werke Zweibrücken
OMZ92677 Issue M8

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ENGLISCH

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 the 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 20 to 50 hours, schedule an after-sale inspection with your dealer to ensure best performance.

THIS COMBINE 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 COMBINE 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 combine will relieve the manufacturer of all liability for any resulting damage or injury.

Contents

	Page		Page
Identification Views	00-1	Emergency cut-off (Stop) switch in multi-function lever	15-28
Safety	05-1	Road safety switch	15-28
Safety Decal Location	10-1	Heater and air conditioner controls	15-29
Controls and Instruments		Windshield wiper switch	15-30
General view of controls and instruments	15-1	Windshield washer	15-30
Switch and knob colors	15-2	Tool box	15-30
Armrest control panel	15-3	Outside mirror remote control switch	15-31
Multi-function lever	15-4	Mirror heater tumbler switch	15-31
Corner post	15-5	Gear shift lever	15-31
Roof console	15-6	Horn	15-32
Header height/tilt control switches	15-7	Starter switch	15-32
Reel position control switch	15-8	Feeder house/header reverser	15-33
Header manual lateral tilt switch	15-9	Cold weather starting aid button	15-34
Feeder house variator switch	15-10	Breaker bar for unplugging cylinder	15-34
Raise/lower header switch	15-11	Warning Devices and Monitors	
Header function resume control buttons	15-12	Overhead warning display panel	20-1
Switch for reel height position resume control	15-13	Hydro charge pressure warning light	20-2
Switch for reel fore-and-aft position resume control	15-14	Separator drive pressure warning light	20-2
Potentiometer for header height control	15-15	Coolant temperature warning light	20-2
Header autofloat control	15-16	Engine oil pressure warning light	20-3
Response rate control for automatic functions	15-18	Low fuel warning light	20-3
Response rate control for manual function	15-19	Parking brake warning light	20-3
Automatic reel speed control switch	15-20	Separator drive filter warning light	20-4
Manual reel speed control switch	15-21	Separator drive temperature warning light	20-4
Header engage control switch	15-22	Hydraulic oil temperature warning light	20-4
Unloading auger engage control switch	15-23	Alternator warning light	20-5
Separator engage control switch	15-23	Air cleaner warning light	20-5
Unloading auger swing control switch	15-24	Straw warning device light	20-5
Engine speed control switch	15-24	Beater warning light	20-6
Cylinder speed control switch	15-25	Straw chopper warning light	20-6
Four-wheel drive control switch	15-26	Grain separator warning light	20-7
Concave clearance control switch	15-27	Auger conveyor warning light	20-7
Fan speed control switch	15-27	Grain elevator warning light	20-8
		Tailings elevator warning light	20-8
		Cylinder speed warning light	20-9
		Engine speed warning light	20-9
		Unloading auger drive warning light	20-10
		Grain tank warning light	20-10
		Fuel gauge	20-11
		Coolant temperature gauge	20-11

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.

OMZ92677 M8-19-15DEC98

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Contents

	Page		Page
Header height gauge	20-11	Adjusting left-hand armrest and seat back	30-7
Ground pressure gauge	20-12	Adjusting armrest up and down or fore-and-aft	30-7
Contourmaster system description	20-13	Auxiliary power outlet	30-7
Harvest performance monitor	20-15	Power strip electrical outlets	30-8
Infotrak monitor (General information)	20-15	Adjusting steering wheel height	30-8
Infotrak monitor operation	20-16	Adjusting steering column tilt	30-9
Infotrak monitor sensor locations	20-18	Parking brake	30-9
Input of specific machine data	20-19	Foot brakes	30-10
Software version	20-19	Foot brakes	30-10
Machine code	20-20		
Transmission speed ratio code	20-20	Pre-Starting Checks	
Tire radius code	20-20	Engine oil level	35-1
Determining tire radius	20-21	Coolant level	35-1
Engine impulse code	20-21	Hydraulic oil level	35-2
Infotrak monitor service information	20-22	Fuel level	35-2
Low shaft speed monitor general information	20-23	Fuel system	35-2
Low shaft speed monitor troubleshooting	20-24	After long storage period	35-3
Low shaft speed monitor sensor locations	20-25	Tires	35-3
Harvest performance monitor	20-26	Lubricate combine	35-3
How the harvest performance monitor works	20-27	Checks in operator's cab	35-3
Operating harvest performance monitor	20-28		
Harvest performance monitor operational checks	20-30	Operating the Engine	
		Breaking in the engine	40-1
Lighting System and Signals		Safety rules for starting the engine	40-2
Light switches	25-1	Starting the engine	40-3
Warning lights	25-1	Hot weather operation (Tropical conditions)	40-6
Turn signals	25-2	Cold weather operation	40-7
Cab interior lights	25-2	Cold weather starting aids	40-8
Side finder lights	25-3	Cold weather starting procedure	40-8
Unloading auger light	25-3	Instruction for using cold weather starting aid	40-9
Auxiliary field lights	25-3	Coolant preheater	40-9
Rear residue discharge lights	25-4	Booster battery	40-10
Cleaning shoe lights	25-4	Stopping the engine	40-11
		Stalling of engine	40-11
Operator's Cab		Driving and Transporting the Combine	
Access ladder to operator's cab	30-1	Driving the combine	45-1
Positions of access ladder	30-1	Steering and driving	45-1
Cab landing safety chain	30-2	Releasing parking brake	45-1
Washing cab windows	30-3	Operating the foot brakes	45-2
Cleaning grain tank window	30-4	Engaging a gear	45-2
Armrest storage box	30-4	Road safety switch	45-2
Storage tray/recirculator filter	30-4	Adjusting engine speed	45-3
Manual storage	30-4	Raising header	45-3
Cab door lock	30-5	Forward and reverse travel	45-3
Cup holder	30-5	Reverse travel alarm	45-4
Air comfort operator's seat	30-5	Ground speed	45-4
Adjusting operator's seat	30-6	Hydrostatic system	45-5

Continued on next page

Contents

	Page		Page
Transport information	45-5	Adjusting feeder house top shaft stripper . . .	65-10
Under own power	45-6	Checking feeder house top shaft sprockets	65-10
Four-wheel drive	45-7	Adjusting reverser shifter fork and control cable	65-11
Road safety switch	45-8	Reverser gearbox oil cooler	65-12
Towing the combine	45-9	Slip clutch in upper feeder shaft	65-12
Transporting combine on a trailer	45-10		
Pulling combine out of the mud	45-11		
Wheels, Axles and Additional Weights			
Tire maintenance	50-1		
Wheel bolts and nuts	50-1		
Rear wheel attaching ring	50-1		
Mounting tires	50-2		
Changing tires	50-3		
Tire inflation	50-3		
Using liquid weight	50-4		
Ballast requirements	50-5		
Drive tire spacing	50-5		
Axle and wheel spacers	50-5		
Adjusting rear axle	50-6		
Rear axle position and wheel spacing	50-7		
Jacking location	50-9		
Preparations and Field Operation			
Harvesting hints	55-1		
Combine settings	55-2		
Corn kernel loss chart	55-5		
Power shutdown procedure	55-6		
Combine and platform check list	55-7		
Combine set up procedure	55-8		
Combine Cleanout			
Cleaning out the combine	60-1		
Feeder House			
Electrical and hydraulic connections for headers	65-1		
Hydraulic cylinder safety stop	65-2		
Feeder house service flaps	65-3		
Cylinder top access service flap	65-3		
Bottom feeder house service flap	65-3		
Stone trap	65-4		
Leveling header	65-4		
Feeder house strippers	65-5		
Adjusting feeder house conveyor chain	65-6		
Removing conveyor chain links	65-7		
Checking feeder conveyor float	65-7		
Adjusting feeder conveyor float	65-8		
Changing feeder conveyor speed	65-9		
		Adjusting concave actuator stop (rasp bar cylinder)	70-7
		Adjusting concave	70-8
		Replacing spike-teeth	70-12
		Adjusting concave actuator stop (spike-tooth cylinder)	70-13
		Small grain, universal and spike tooth concave	70-14
		Concave de-awning plates	70-15
		Rear concave inserts	70-16
		Rear concave closure plates	70-17
		Beater service access panel	70-17
		Replacing beater wing	70-18
		Changing beater speed	70-19
		High speed beater drive	70-19
		Replacing bushings for chaffer, sieve and precleaner	70-20
		Slow speed cleaning fan drive	70-21
		Using chaffer fingers	70-21
		Adjusting precleaner	70-22
		Adjusting chaffer, chaffer extension and sieve	70-23
		Removing chaffer, sieve or precleaner	70-23
		General purpose chaffer	70-24
		Sieve	70-24
		Precleaner	70-24
		Repairing chaffer, sieve or precleaner	70-25
		Chaffer finger bar cover	70-25
		Elevator perforated screens	70-26
		Tailings sample	70-26
		Tailings elevator paddles	70-26
		Separator countershaft strips	70-27
		Tine Separator	
		Tine separator - General purpose	75-1
		Changing tine separator drive speed	75-2

Continued on next page

Contents

	Page		Page
Rolling out tine separator	75-3	Servicing chains	95-2
Tine separator filler covers	75-8	Every 10 Hours or daily	95-3
Tine separator corn kit	75-8	Every 50 Hours or weekly	95-5
		Every 100 hours	95-10
Chaff Spreader and Straw Chopper		Every 200 hours	95-11
Straw chopper	80-1	Every 400 hours or yearly	95-13
Operating straw chopper	80-2	Every 800 hours or every two years	95-21
Adjusting tailboard position	80-3	Every 2000 hours	95-22
Adjusting straw chopper fins	80-4	As required	95-26
Adjusting counter-knives	80-4		
Choosing chopping speed	80-5	Service — Engine	
Splitting and chopping	80-6	Left-hand drives	100-1
Removing counter-knives	80-6	Right-hand drives	100-3
Replacing rotating knives	80-7	Rear ladder and landing	100-4
Chaff spreader	80-7	Engine compartment door	100-5
Operating chaff spreader	80-8	Lower engine access door	100-5
Adjusting vane position	80-9	Engine belt shield	100-5
Removing chaff spreader	80-10	Engine access panel	100-6
		Changing starter fluid cans	100-6
Grain Tank Loading and Unloading		Checking engine oil	100-7
Grain tank access	85-1	Fuel system	100-8
Grain tank drain holes	85-3	Do not modify fuel system	100-8
Adjusting grain tank full indicator	85-4	Fuel tank and cap	100-9
Adjusting grain tank unloading auger covers	85-4	Electric fuel pump	100-9
Cross auger drive shear bolt	85-5	Draining water separator	100-10
Adjusting unloading auger drive cylinder	85-6	Replacing water separator filter	100-10
Replacing unloading auger drive cylinder	85-6	Draining fuel tank	100-10
Removing unloading auger	85-7	Draining fuel filter	100-11
Installing and timing unloading auger	85-7	Replacing fuel filter	100-11
Adjusting unloading auger swing	85-8	Bleeding fuel filter	100-12
		Bleeding fuel lines	100-12
Fuel, Lubricants, Coolant and Capacities		Draining cooling system	100-13
Fuel	90-1	Filling radiator	100-15
Handle fuel safely	90-1	Winterize cooling system	100-15
Diesel engine break-in oil	90-2	Replacing thermostats	100-16
Diesel engine oil	90-3	Replacing engine fan belt	100-16
Diesel engine coolant	90-4	Rotary screen belt routing	100-17
Gear oil	90-4	Replacing rotary screen drive belt	100-17
Transmission and hydraulic oil	90-5	Cleaning rotary screen, condenser, radiator and coolers	100-17
Grease	90-5	Adjusting rotary screen knife comb	100-18
Brake fluid for brake system	90-6	Replacing rotary screen rake bar	100-19
Capacities	90-6	Air intake system	100-20
Alternative and synthetic lubricants	90-7	Removing air cleaner filters	100-21
Mixing of lubricants	90-7	Inspecting air cleaner element	100-22
Lubricant storage	90-7	Cleaning air cleaner element	100-22
Use genuine John Deere parts	90-8	Washing air cleaner element	100-23
Lubrication Charts, Periodic Service		Service — Drives and Shields	
Service intervals	95-1	R.h. and l.h. access shields	105-1

Continued on next page

Contents

	Page		Page
R.h. rear shield	105-2	Checking electrolyte level	110-2
L.h. separator side shields	105-3	Checking specific gravity	110-3
R.h. separator side shield	105-4	Battery switch	110-3
Separator access door	105-4	Installing batteries and connecting to correct poles	110-4
Adjusting feeder conveyor drive chain	105-4	Connecting booster batteries	110-4
Replacing variable speed feeder house belt	105-5	Service power receptacles	110-5
Adjusting variable speed feeder house chain	105-6	Circuit breakers and relays (Engine compartment)	110-6
Replacing fixed speed feeder house belt	105-8	Fuses and relays (Central electronics box)	110-6
Adjusting fixed speed feeder house belt	105-8	Power distribution board	110-8
Adjusting cylinder drive gap	105-9	Power distribution board relay identification	110-9
Aligning cylinder drive	105-10	Power distribution board fuse identification	110-9
Adjusting cylinder belt idler	105-11	Replacing bulbs	110-10
Replacing cylinder intermediate belt	105-12	Handling electrical connectors	110-11
Replacing cylinder belt	105-12	Starting motor	110-12
Adjusting beater belt idler	105-13	Alternator and voltage regulator	110-12
Replacing beater belt	105-13	Replacing alternator belt	110-13
Adjusting secondary countershaft belt	105-13	Adjusting unloading auger swing limit switch	110-14
Replacing secondary countershaft belt	105-14	Communication/cb radio mounting	110-14
Adjusting tine separator main drive belt	105-14	Connecting power to business radio	110-15
Adjusting tine separator secondary drive belt	105-15	Header height potentiometer	110-16
Adjusting header/reel pump belt	105-15	Skid plates with sensor straps	110-16
Replacing header/reel pump belt	105-16	Sensor straps	110-17
Clean grain elevator top access doors for drives	105-16	Engine control system diagnostic codes	110-18
Replacing clean grain elevator belt	105-17	Error codes, infotrak monitor	110-20
Adjusting clean grain elevator chain	105-17	Contourmaster system display modes	110-25
Replacing tailings auger and elevator belt	105-18	Combine calibration procedure	110-26
Adjusting tailings elevator belt	105-18	Header calibration procedure	110-26
Adjusting tailings elevator drive chain	105-18		
Adjusting tailings elevator paddle chain	105-19	Service — Hydraulic System	
Adjusting upper tailings auger drive chain	105-19	Hydraulic system general information	115-1
Adjusting tailings elevator slip clutch	105-19	Hydraulic system cleanliness	115-2
Adjusting cleaning shoe auger gears	105-20	Accumulator, pressure-limiting valve and pressure sensor for float	115-3
Adjusting cleaning shoe auger slip clutch	105-20	Valve for raising/lowering header	115-3
Replacing cleaning shoe belt	105-21		
Replacing cleaning fan belt	105-22	Service — Ground Speed Drive	
Adjusting straw chopper drive belt	105-23	Adjusting hydro linkage	120-1
Adjusting grain tank cross auger drive chain	105-24	Brake fluid reservoir	120-1
Replacing unloading auger drive belt	105-24	Brake system	120-2
Aligning unloading auger drive	105-25	Adjusting gearshift linkage	120-2
Service — Electrical System		Service — Air Conditioning and Heating	
Specifications	110-1	Observe air conditioning precautions	125-1
Batteries	110-1	General information	125-1
Battery handling	110-1		
Battery service	110-2		

Continued on next page

Contents

	Page		Page
Removing fresh air filter and tray	125-2		
Cleaning pre-cleaner	125-2		
Removing recirculating filter	125-3		
Cleaning fresh air and recirculating filters . . .	125-3		
Removing evaporator filter	125-4		
Cleaning cab roof inlet panel	125-4		
Removing compressor drive belt	125-5		
Checking refrigerant level	125-5		
High pressure switch	125-6		
Low pressure switch	125-6		
Troubleshooting			
General information	130-1		
Feeder house	130-2		
Separator	130-3		
Hydrostatic ground drive	130-7		
4-Wheel drive	130-10		
Steering	130-10		
Brakes	130-11		
Engine	130-12		
Heater	130-16		
Pressurizer	130-17		
Air conditioning	130-18		
Storage			
After the season	135-1		
Engine	135-2		
Air conditioning	135-3		
Removing combine from storage	135-4		
Engine	135-4		
Air conditioning	135-5		
Specifications			
Operating speeds	140-1		
Specifications	140-3		
Whole body vibration	140-5		
Sound level	140-5		
Permissible total weight	140-5		
Ground travel speeds	140-6		
Dimensions	140-7		
Serial Numbers			
Type plates	145-1		
Product identification number	145-1		
Engine serial number	145-2		
Hydrostatic drive unit pump serial number . . .	145-2		
Hydrostatic drive unit motor serial number . . .	145-2		
Four wheel drive motor serial number	145-2		
Engine gearcase serial number	145-3		
		Three-speed transmission serial number	145-3
		Straw chopper serial number	145-3
Index			

Identification Views



H51098
-UN-21DEC97

CTS combine

ZX_OMCTS 011841-19-01SEP98

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 -19-29SEP98

T81389 -UN-07DEC68

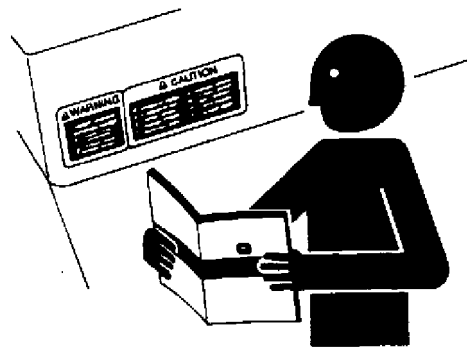
FOLLOW SAFETY INSTRUCTIONS

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

T8201 -UN-23AUG88



OBSERVE ROAD TRAFFIC REGULATIONS

Always observe local road traffic regulations when using public roads.



H28930 -UN-30JUN89

FX,ROAD -19-01MAY91

CHECK MACHINE SAFETY

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

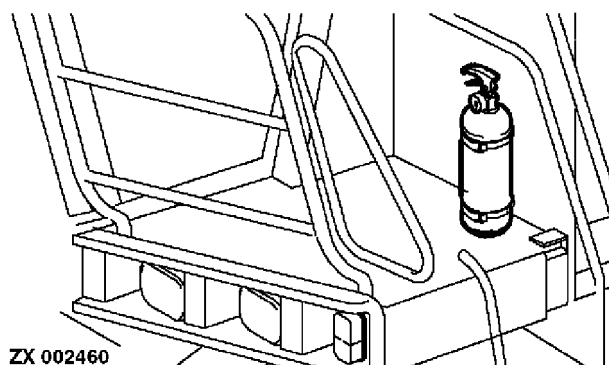
FX,READY -19-28FEB91

FIRE EXTINGUISHER

A 6 kg (13 lb) general purpose fire extinguisher meeting local legal requirements has to be installed on the left-hand side of the operator's platform.

Maintain fire extinguisher to keep it in operational condition.

Keep the engine clean and free of dust, chaff and straw to prevent the possibility of a fire.



ZX 002460

ZX002460 -UN-16JUN95

ZX,FIREXZCO -19-27MAY94



CAUTION: 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,BYPAS -19-26JAN90

DRIVING THE COMBINE

Operate machine only when all guards are correctly installed.

Before moving away, always check immediate vicinity of machine (e.g. for children). Ensure adequate visibility. Use the horn as a warning immediately before moving away.

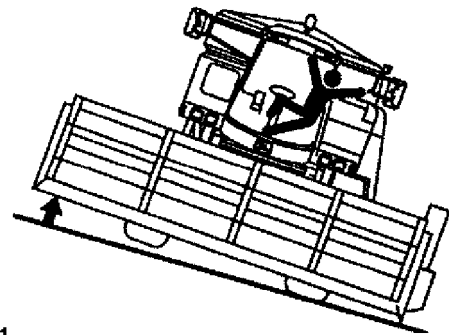
Always adapt ground speed to road or field conditions. Avoid making sharp turns when driving up or down slopes or when driving across a slope. Be especially careful when turning on slopes with full grain tank.

Attach harvesting units and other implements to combine with extreme care.

When making turns, always take into consideration the width of the attachment and the fact that the rear end of the combine swings out. Attachments and ground conditions affect the driving characteristics of the combine.

Reduce ground speed when driving on slopes or over uneven ground and before making sharp turns. Before descending a steep hill, shift to a lower gear.

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



ZX002461

ZX002461 -UN-16JUN95

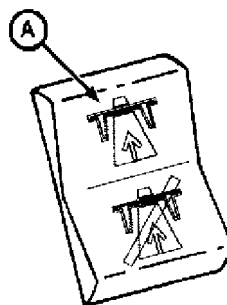
ZX,DRIVEXZCO -19-27JAN92



ROAD SAFETY SWITCH

IMPORTANT: Before driving combine on public roads, make sure that road safety switch is in road position (A). Also move harvesting unit and unloading auger to transport position and close grain tank covers.

This ensures that all hydraulic functions — with exception of the steering system — are not working.



-UN-21DEC97

H51100

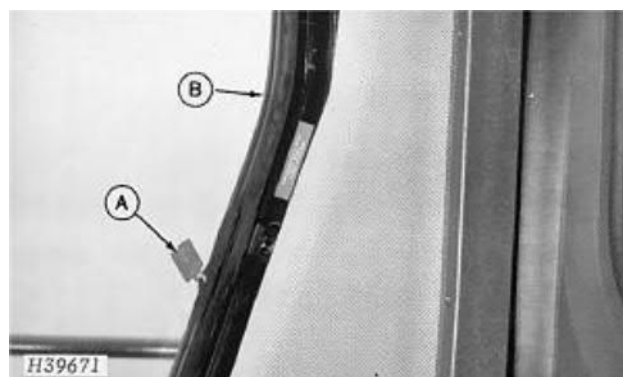
ZX, SWITCHCTS -19-01SEP98

EMERGENCY EXIT

Pull tab (A) to begin removal of rubber rope (B).

Continue to pull until rope is removed from around window. The window can now be pushed out and allowed to fall free.

See your John Deere dealer for window replacement.



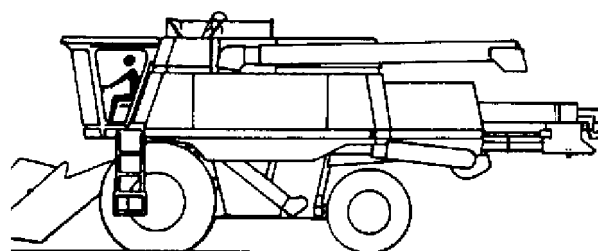
H39671

-UN-11OCT88
H39671

OM, CTSOS, L -19-03JUN94

TRANSPORT COMBINE SAFELY

Never drive the combine with the module in the service position.



H44071

-UN-05JAN92
H44071

OM, CTSSA, A -19-23JAN92

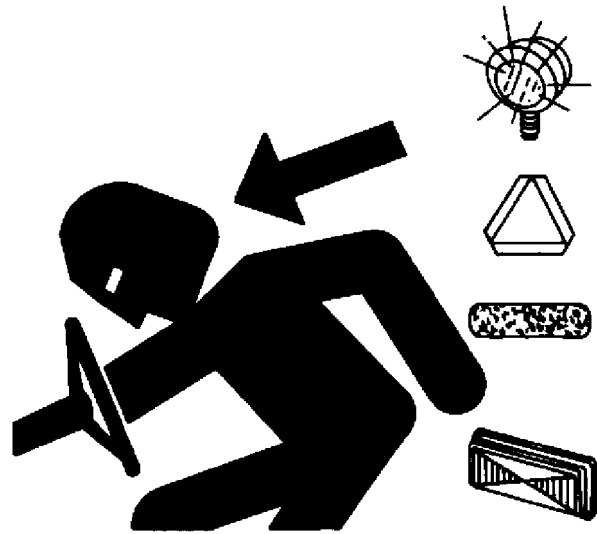


USE SAFETY LIGHTS AND DEVICES

Slow moving tractors, self-propelled equipment and towed implements or attachments can create a hazard when driving on public roads. They are difficult to see, especially at night. Avoid personal injury or death resulting from collision with a vehicle.

If legally permitted, use flashing warning lights or rotary beacons whenever driving on public roads. To increase visibility, use the lights and devices provided with your machine. For some equipment, install additional flashing warning lights.

Keep safety items in good condition. Replace missing or damaged items. An implement safety lighting kit is available from your John Deere dealer.



TS951 -UN-12APR90

ZX,FLASH -19-01OCT91

RIDERS

Only allow the operator and one rider on the machine.

Other riders are subject to injury such as being thrown off the machine and obstruct the operator's view resulting in the machine being operated in an unsafe manner.

One rider is permitted, since the machine is equipped with a factory-approved passenger seat.



TS253 -UN-23AUG88

ZX,PASSENGER -19-02OCT91

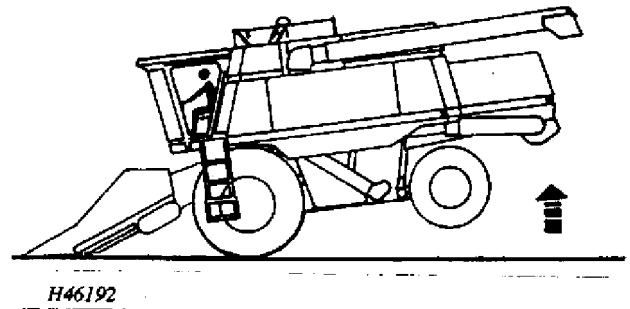


BALLASTING FOR SAFE GROUND CONTACT

Operating, steering and braking performance of combine can be considerably affected by heavy front end attachments which alter the center of gravity of the combine.

To maintain the necessary ground contact, ballast the combine at the rear end as necessary.

Observe the maximum permissible axle loads and total weights.



-UN-15APR94

H46192

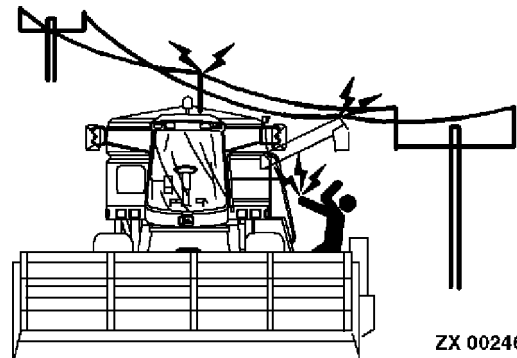
H01.9000SA,G -19-03JUN94

RADIO AERIAL

If radio aerial is not secured in its transport position before driving on public roads, it may come into contact with low-hanging electrical cables. This would result in the operator suffering a severe electrical shock.

To avoid electrical shock, no portion of the machine should be higher than 4 m.

Before transporting machine, bend aerial or remove it.



-UN-16JUN95

ZX002464

ZX,ANTENNAZXCO -19-27JAN92



PARKING AND LEAVING THE COMBINE

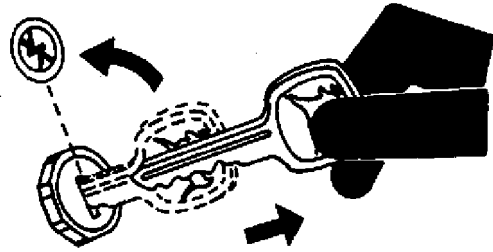
Lower harvesting unit to the ground.

Before leaving the combine, disengage harvesting unit and separator. Shut off engine and move gear shift lever to neutral. Apply parking brake, remove key and lock the operator's cab. Position chock blocks.

NOTE: Use only chock blocks provided with the machine.

Never leave combine unattended as long as engine is running.

Never leave the operator's cab when driving.



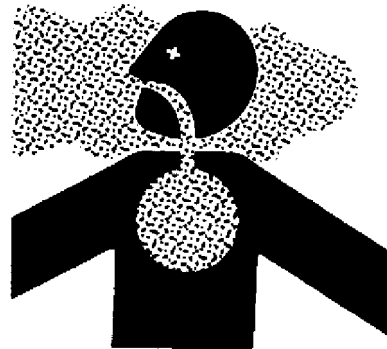
ZX,PARKXZCO -19-13APR92

-UN-24MAY69
TS230

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.



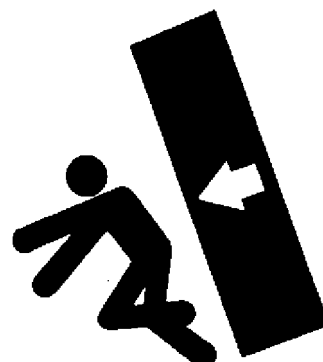
DX,AIR -19-04JUN90

-UN-23AUG88
TS220

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

-UN-23AUG88
TS219



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

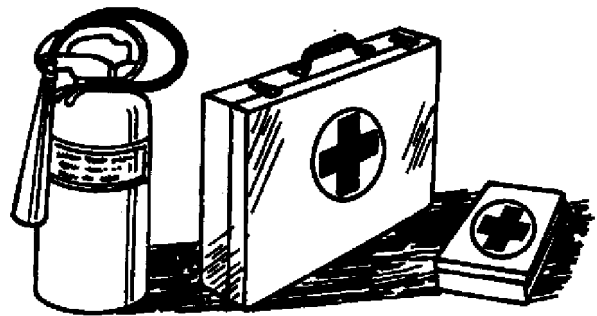
TS202
-UN-23AUG88

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



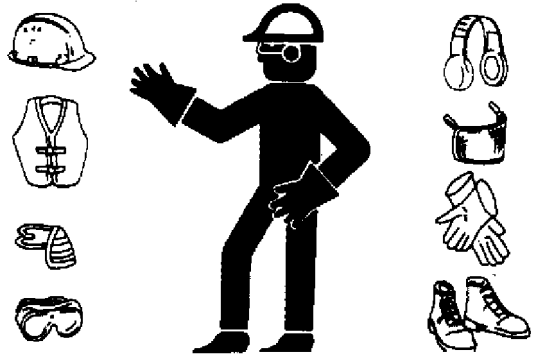
WEAR PROTECTIVE CLOTHING

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

-UN-23AUG88
TS206

STAY CLEAR OF HARVESTING UNITS

Cutterbar, auger, reel and feed rolls cannot be completely shielded due to their function. Stay clear of these moving elements during operation. Always disengage main clutch, shut off engine and remove key before servicing or unclogging machine.



ES 118 704

FX,CUT -19-21DEC90

-UN-21MAR95
ES118704

KEEP HANDS AWAY FROM KNIVES

Never attempt to clear obstructions in front of or on header unless separator is disengaged, engine shut off and key removed.

Everyone must be clear of the combine before starting the engine



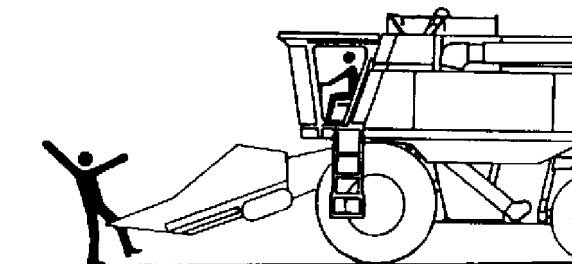
H01,9000SA,D -19-20MAR90

-UN-23AUG88
TS254



TRANSPORT COMBINE WITH HEADER SAFELY

Before driving combine on public roads, raise the header. It must not, however, obstruct operator's view of the road.



H46194

H01,9000SA,F -19-03JUN94

-UN-15APR94
H46194

AVOID CONTACT WITH MOVING PARTS

Keep hands, feet and clothing away from power driven parts. Never clean, lubricate or adjust machine when it is running.



H01,9000SA,E -19-15JUN90

-UN-23AUG88
TS256

CLEANING THE GRAIN TANK AND REMOVAL OF BLOCKAGES

Avoid serious injury or death from entanglement in the grain tank cross augers. For functional purposes the cross augers cannot be completely covered. Do not enter the grain tank when the engine is running. Before entering the tank to clean out residual grain always shutoff the engine and remove the key.

If the grain bridges and fails to flow into the cross augers, shut off the engine, remove the key and open the grain tank cover. From a position on the engine compartment door, use a rod, broom or shovel to break the bridge and restore grain flow.



HX,CTSESA,B1 -19-06JAN98

-UN-23AUG88
TS256



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

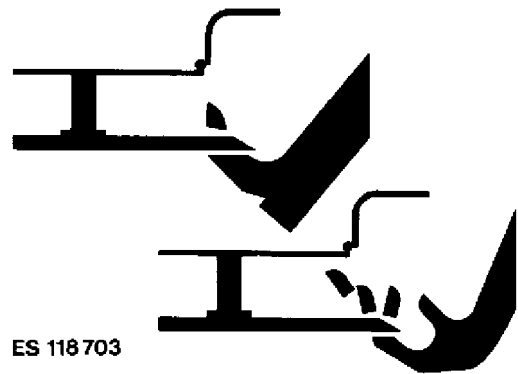
TS1644 -UN-22AUG95

GUARDS AND SHIELDS

Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly.

Always disengage main clutch, shut off engine and remove key before removing any guards or shields.

Keep hands, feet and clothing away from moving parts.



ES 118703

FX,DEVICE -19-04DEC90

ES118703 -UN-21MAR95

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

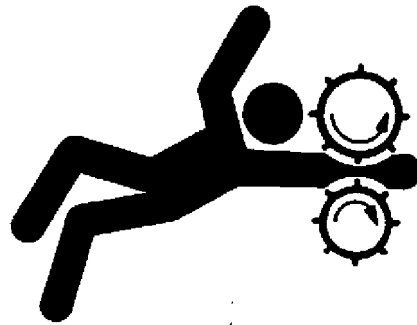
TS218 -UN-23AUG88



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.



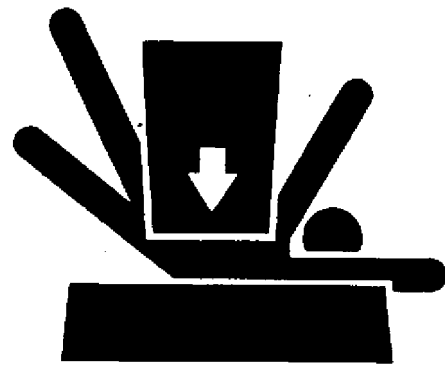
DX.LOOSE -19-04JUN90

TS228 -UN-23AUG88

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.

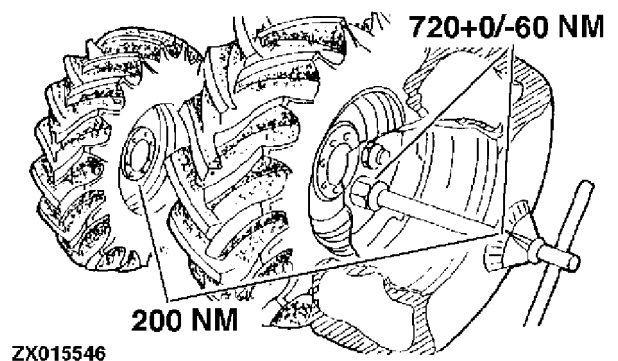


DX.LOWER -19-04JUN90

TS229 -UN-23AUG88

RETORQUE WHEEL NUTS

Retorque wheel nuts as specified in Sections "Wheels, Axles and Additional Weights" and "Lubrication Charts, Periodic Service". Failure to do this could result in a wheel falling off during operation, causing the machine to tip over with serious injury to the operator and extensive damage to the machine.



ZX.CTSNUTS -19-01SEP98

ZX015546 -UN-14SEP98



REMOVE PAINT BEFORE WELDING OR HEATING

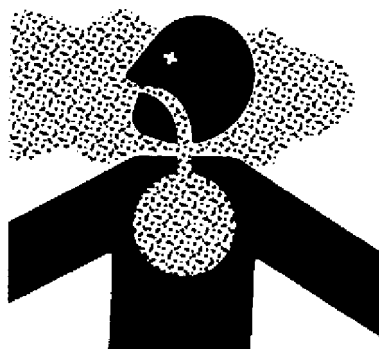
Avoid potentially toxic fumes and dust.

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-23AUG68

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



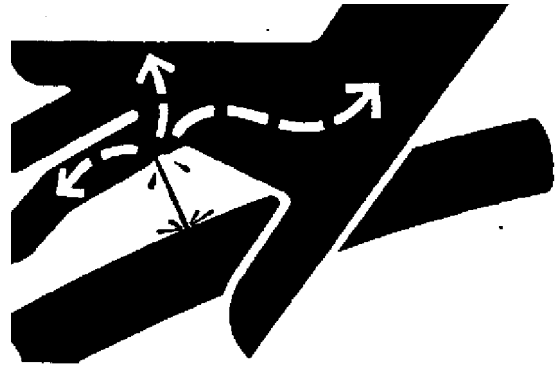
AVOID HIGH-PRESSURE FLUIDS

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.



X9811 -UN-23AUG88

DX,FLUID -19-03MAR93

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



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:

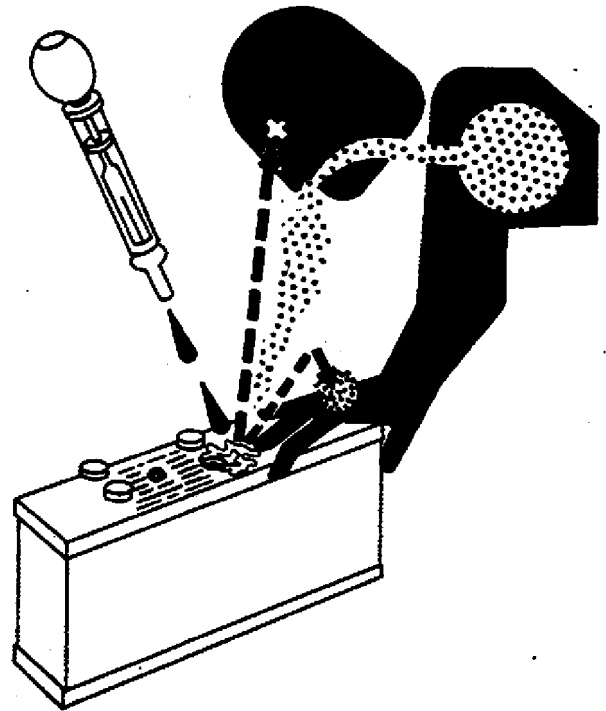
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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 15—30 minutes. Get medical attention immediately.

If acid is swallowed:

1. Do not induce vomiting.
2. Drink large amounts of water or milk, but do not exceed 2 L (2 quarts).
3. Get medical attention immediately.



DX_POISON -19-21APR93

TSS203 -UN-23AUG88



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SERVICE TIRES SAFELY

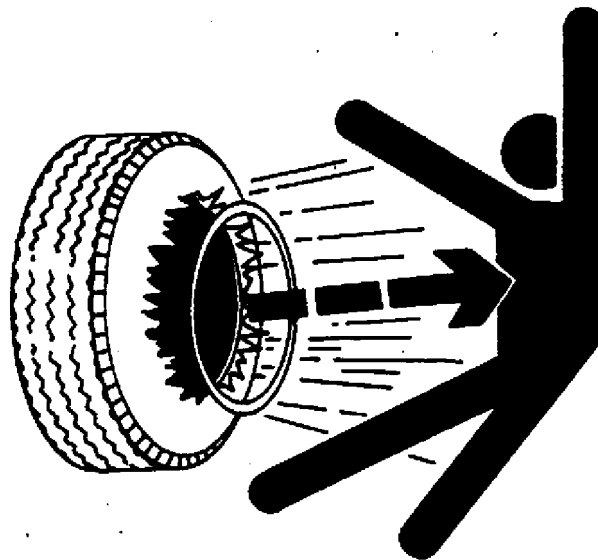
Explosive separation of a tire and rim parts can cause serious injury or death.

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.



DX,RIM -19-24AUG90

TS211 -UN-23AUG88

DISPOSE OF WASTE PROPERLY

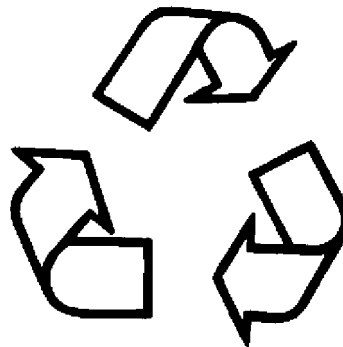
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



DX,DRAIN -19-03MAR93

TS1133 -UN-26NOV90



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

TS281 -UN-23AUG88

REMOVE ACCUMULATED CROP DEBRIS

The build up of chaff and crop debris in the engine compartment, on the engine, and near moving parts is a fire hazard. Check and clean these areas frequently. Before performing any inspection or service, shut off the engine, set the parking brake and remove the key.



HX,9010SA,B -19-23AUG97

TS227 -UN-23AUG88

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