CTS Combines (From Serial No. 677551)

John Deere Werke Zweibrücken OMZ92677 Issue M8

European Edition
Printed in Germany
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.

ZX,IFCXZCO -19-01MAR95

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

COPYRIGHT® 1998
DEERE & COMPANY
European Office Mannheim
All rights reserved
A John Deere ILLUSTRUCTION® Manual

Page	Page
Header height gauge	Adjusting left-hand armrest and seat back 30-7 Adjusting armrest up and down or fore-and-aft 30-7 Auxiliary power outlet 30-7 Power strip electrical outlets 30-8 Adjusting steering wheel height 30-8 Adjusting steering column tilt 30-9 Parking brake 30-9 Foot brakes 30-10 Foot brakes 30-10
Transmission speed ratio code	Pre-Starting Checks Engine oil level 35-1 Coolant level 35-1 Hydraulic oil level 35-2 Fuel level 35-2 Fuel system 35-2 After long storage period 35-3 Tires 35-3 Lubricate combine 35-3 Checks in operator's cab 35-3
How the harvest performance monitor works	Operating the EngineBreaking in the engine
Lighting System and SignalsLight switches25-1Warning lights25-1Turn signals25-2Cab interior lights25-2Side finder lights25-3Unloading auger light25-3	Cold weather operation
Auxiliary field lights	Stopping the engine
Operator's CabAccess ladder to operator's cab30-1Positions of access ladder30-1Cab landing safety chain30-2Washing cab windows30-3Cleaning grain tank window30-4Armrest storage box30-4Storage tray/recirculator filter30-4Manual storage30-4Cab door lock30-5Cup holder30-5Air comfort operator's seat30-5Adjusting operator's seat30-6	Driving the combine 45-1 Steering and driving 45-1 Releasing parking brake 45-1 Operating the foot brakes 45-2 Engaging a gear 45-2 Road safety switch 45-2 Adjusting engine speed 45-3 Raising header 45-3 Forward and reverse travel 45-3 Reverse travel alarm 45-4 Ground speed 45-4 Hydrostatic system 45-5
Aujusting operators seat	Continued on next page

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

iii

Page	Page
Rolling out tine separator	Every 10 Hours or daily 95-3
Chaff Spreader and Straw ChopperStraw chopper80-1Operating straw chopper80-2Adjusting tailboard position80-3Adjusting straw chopper fins80-4	Every 800 hours or every two years 95-21 Every 2000 hours
Adjusting counter-knives 80-4 Choosing chopping speed 80-5 Splitting and chopping 80-6 Removing counter-knives 80-6 Replacing rotating knives 80-7 Chaff spreader 80-7 Operating chaff spreader 80-8 Adjusting vane position 80-9 Removing chaff spreader 80-10	Left-hand drives
Grain Tank Loading and Unloading Grain tank access	Fuel tank and cap
Fuel, Lubricants, Coolant and CapacitiesFuel90-1Handle fuel safely90-1Diesel engine break-in oil90-2Diesel engine oil90-3Diesel engine coolant90-4Gear oil90-4Transmission and hydraulic oil90-5Grease90-5Brake fluid for brake system90-6	Winterize cooling system
Capacities	Inspecting air cleaner element
Service intervals	Continued on next page

ίv

Page	Page
R.h. rear shield	Checking electrolyte level
L.h. separator side shields 105-3	Checking specific gravity
R.h. separator side shield 105-4	Battery switch
Separator access door	Installing batteries and connecting to
Adjusting feeder conveyor drive chain 105-4	correct poles
Replacing variable speed feeder house	Connecting booster batteries 110-4
belt	Service power receptacles 110-5
Adjusting variable speed feeder house	Circuit breakers and relays (Engine
chain	compartment)
Replacing fixed speed feeder house belt 105-8	Fuses and relays (Central electronics
Adjusting fixed speed feeder house belt 105-8	box)
Adjusting cylinder drive gap 105-9	Power distribution board 110-8
	Power distribution board relay
Adjusting cylinder drive	identification
Adjusting cylinder belt idler	Power distribution board fuse
Replacing cylinder intermediate belt 105-12	identification
Replacing cylinder belt	Replacing bulbs
Adjusting beater belt idler	Handling electrical connectors
Replacing beater belt	Starting motor
Adjusting secondary countershaft belt 105-13	Alternator and voltage regulator
Replacing secondary countershaft belt 105-14	Replacing alternator belt
Adjusting tine separator main drive belt 105-14	Adjusting unloading auger swing limit
Adjusting tine separator secondary drive	switch
belt	Connecting power to business radio 110-15
Adjusting header/reel pump belt 105-15	Header height potentiometer
Replacing header/reel pump belt 105-16	Skid plates with sensor straps
Clean grain elevator top access doors for	Sensor straps
drives	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
Adjusting cleaning shoe auger slip clutch 105-20	pressure sensor for float 115-3
Replacing cleaning shoe belt	Valve for raising/lowering header 115-3
Replacing cleaning fan belt	
Adjusting straw chopper drive belt 105-23	Service — Ground Speed Drive
Adjusting grain tank cross auger drive	Adjusting hydro linkage
chain	Brake fluid reservoir
Aligning unloading auger drive	Brake system
Angling unloading adder drive 100-20	Adjusting gearshift linkage
Service — Electrical System	Service — Air Conditioning and Heating
Specifications	Observe air conditioning precautions 125-1
Batteries	General information
Battery handling	
Battery service 110-2	Continued on next page

Page	Page
Removing fresh air filter and tray	Three-speed transmission serial number 145-3 Straw chopper serial number 145-3 Index
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	
SpecificationsOperating speeds140-1Specifications140-3Whole body vibration140-5Sound level140-5Permissible total weight140-5Ground travel speeds140-6Dimensions140-7	
Serial Numbers Type plates	

vi

Identification Views



CTS combine

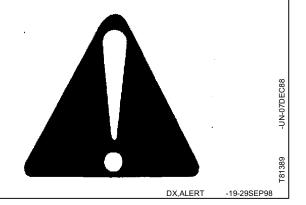
ZX,OMCTS 011841-19-01SEP98

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.



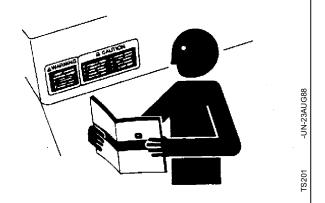
FOLLOW SAFETY INSTRUCTIONS

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



OBSERVE ROAD TRAFFIC REGULATIONS

Always observe local road traffic regulations when using public roads.



FX,ROAD -19-01MAY91

CHECK MACHINE SAFETY

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

FX,READY -19

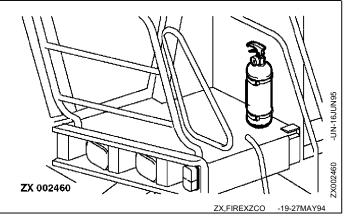
-19-28FEB91

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.







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.

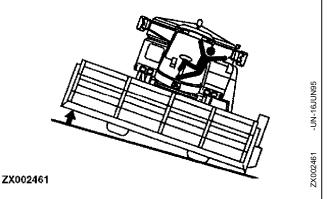
Always adapt ground speed to road or field conditions. Avoid making sharp turns when driving up or down slopes or when driving across a slope. Be especially careful when turning on slopes with full grain tank.

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.



ZX,DRIVEXZCO -19-27JAN92

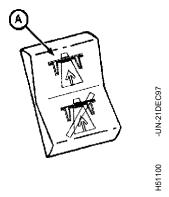


ROAD SAFETY SWITCH

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.



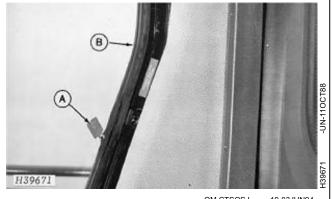
ZX,SWITCHCTS -19-01SEP98

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.

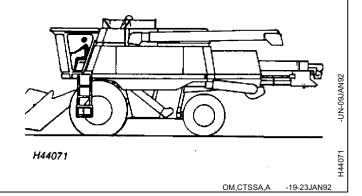


OM,CTSOS,L

-19-03JUN94

TRANSPORT COMBINE SAFELY

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



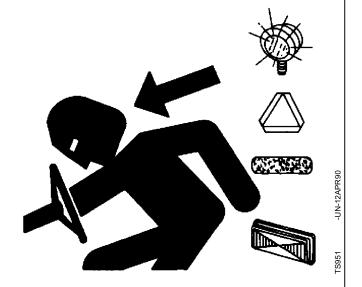


USE SAFETY LIGHTS AND DEVICES

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.



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.



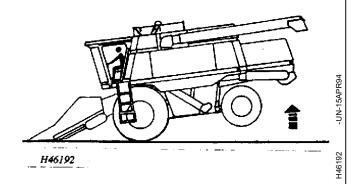


BALLASTING FOR SAFE GROUND CONTACT

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.



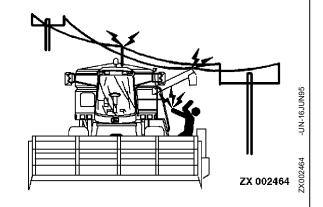
H01,9000SA,G -19-03JUN94

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.



ZX,ANTENNAXZCO -19-27JAN92



PARKING AND LEAVING THE COMBINE

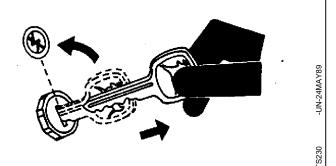
Lower harvesting unit to the ground.

Before leaving the combine, disengange 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.

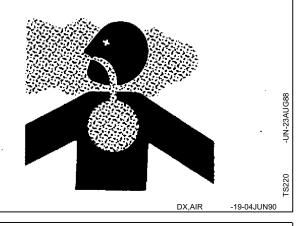


ZX,PARKXZCO -19-13APR92

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.



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.





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.

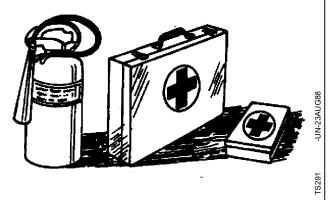


PREPARE FOR EMERGENCIES

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

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.



"

-UN-18MAR92

X,FIRE3 -19-16APR92



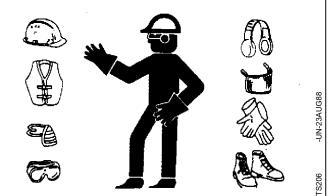
WEAR PROTECTIVE CLOTHING

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

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.



FX,CUT

-19-21DEC90

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.

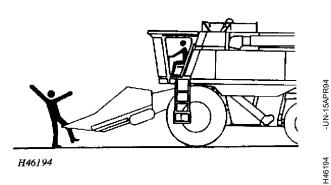
Everyone must be clear of the combine before starting the engine





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.



H01,9000SA,F -19-03JUN94

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

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.





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

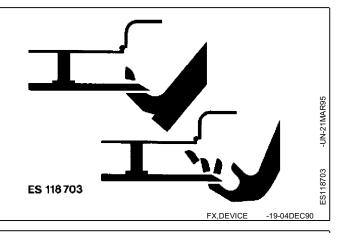
-19-12SEP95

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.



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.



TS218

DX,SERV

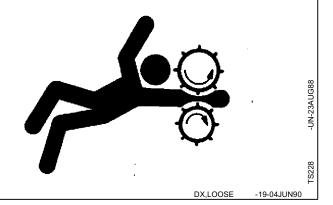
-19-03MAR93



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.

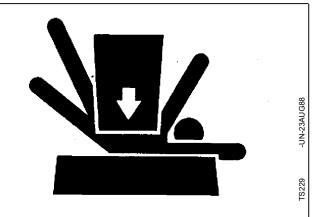
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



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.

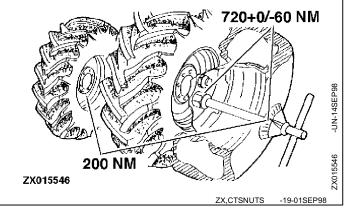


DX,LOWER

-19-04JUN90

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.





REMOVE PAINT BEFORE WELDING OR **HEATING**

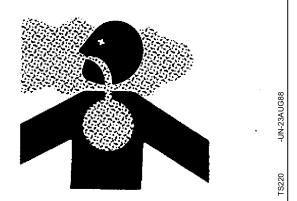
Avoid potentially toxic fumes and dust.

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:

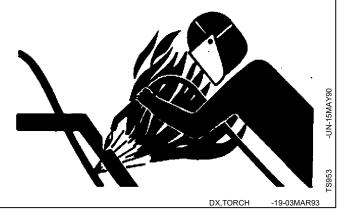
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX,PAINT -19-03MAR93

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.





AVOID HIGH-PRESSURE FLUIDS

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

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

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

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



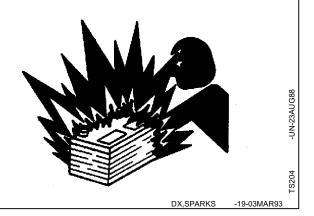
DX,FLUID -19-03MAR93

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).





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:

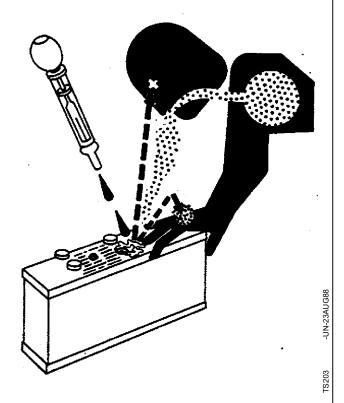
- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

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



SERVICE TIRES SAFELY

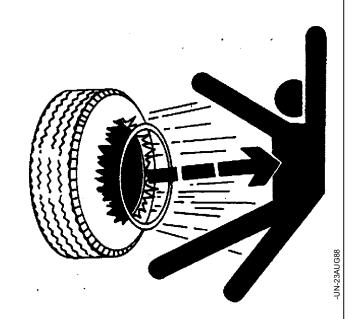
Explosive separation of a tire and rim parts can cause serious injury or death.

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

DISPOSE OF WASTE PROPERLY

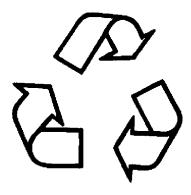
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



-UN-26NOV90

DX,DRAIN



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

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.



S227

HX,9010SA,B -19-23AUG97

Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email: ebooklibonline@outlook.com