

CTS II Combine

John Deere Harvester Works
OMH168623 Issue I8
(This manual replaces OMH159593 B8)

LITHO IN U.S.A.
ENGLISH

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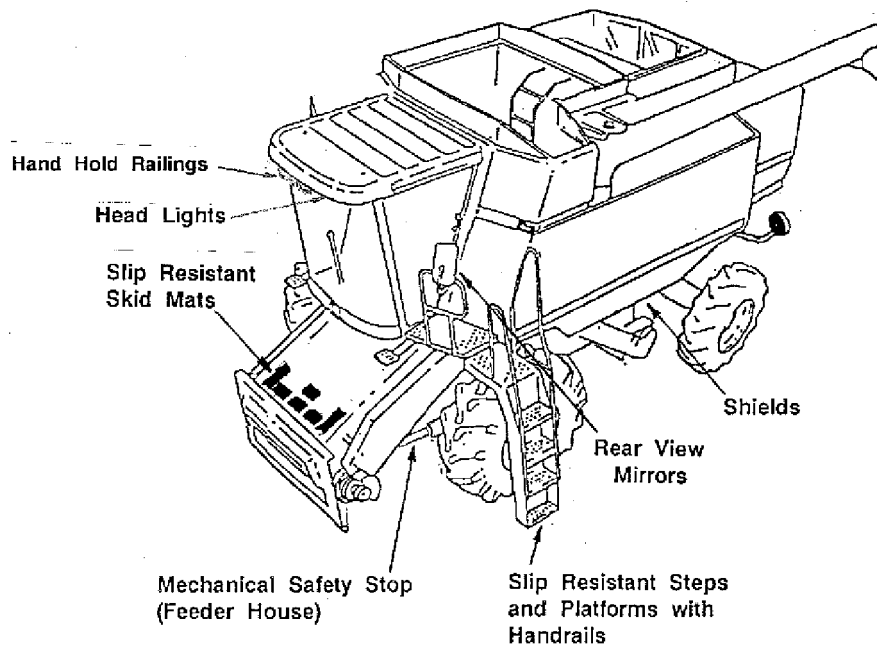
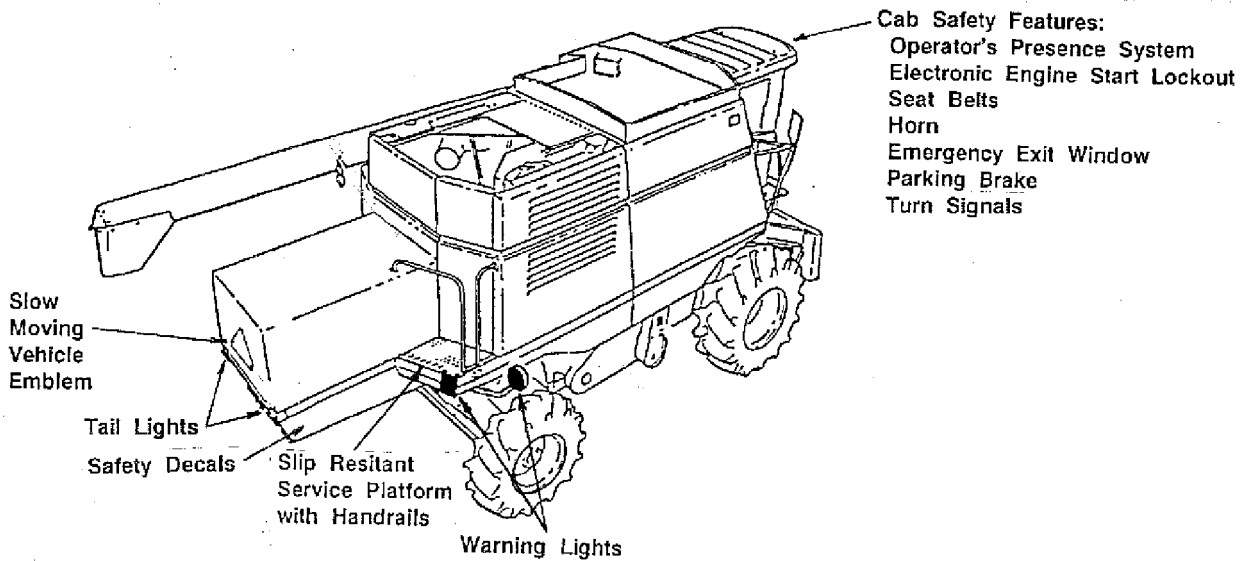
All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

OMH168623 18-19-01SEP98

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Safety Page

COMBINE SAFETY FEATURES



In addition to the safety features shown here, other components and systems, safety signs on the machine, and safety messages and instructions in the operator's manual contribute to the safe operation of this combine when combined with the care and concern of a capable operator.

H48256

-UN-08AUG97

H48256

HX.9000SP,A -19-21MAR98

Safety

RECOGNIZE SAFETY INFORMATION

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

Follow recommended precautions and safe operating practices.



DX,ALERT -19-03MAR93

T81389 -UN-07DEC68

UNDERSTAND SIGNAL WORDS

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

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



DX,SIGNAL -19-03MAR93

TS187 -19-30SEP88

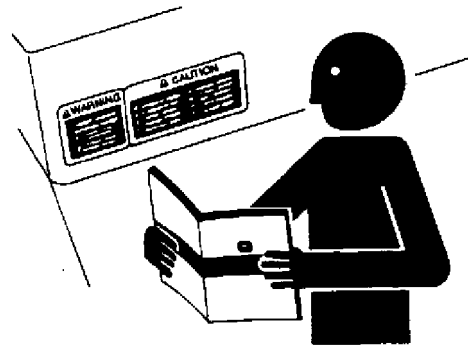
FOLLOW SAFETY INSTRUCTIONS

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

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

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

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



DX,READ -19-03MAR93

TS201 -UN-23AUG88



DRIVING THE COMBINE

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

Before driving away, check immediate vicinity of machine for bystanders. Use the horn as a warning immediately before driving away.

Attach headers to combine with extreme care.

H01.9000SA,A -19-11SEP92

KEEP RIDERS OFF MACHINE

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

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

The extra seat should only be used for training purposes or short periods of observation.



HX,CTS2SA,A -19-18SEP97

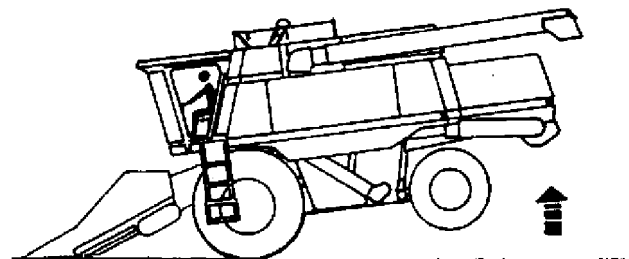
TS253 -UN-23AUG88

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.



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H01.9000SA,G -19-03JUN94

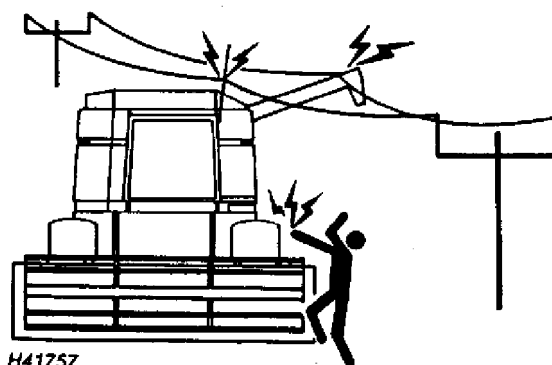
H46192 -UN-15APR94



AVOID ELECTRICAL POWER LINES

Put the grain tank unloading auger in transport position before driving on public roads.

Secure radio aerial 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.



H41757

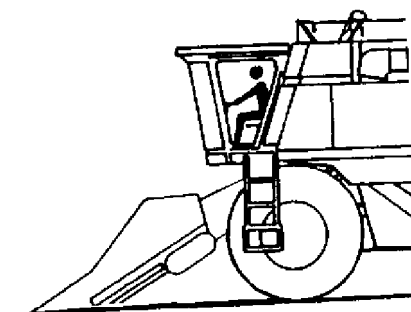
OM,9500SA,H -19-23JAN92

H41757 -UN-10MAR90

PARK THE COMBINE SAFELY

Lower headers or other equipment to the ground before leaving the combine. Turn off engine and remove keys.

Set the park brake.



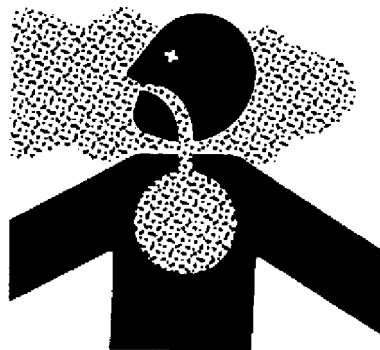
H46193

OM,9500SA,I -19-03JUN94

H46193 -UN-15APR94

OPERATE THE ENGINE OUTDOORS

Never operate the engine in a closed building.



OM,9500SA,J -19-23JAN92

TS220 -UN-23AUG88

HANDLE FUEL SAFELY—AVOID FIRES

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

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

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



DX,FIRE1 -19-03MAR93

TS202 -UN-23AUG88

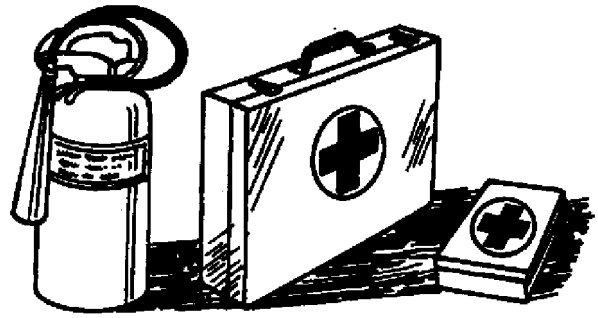


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



DX.FIRE2 -19-03MAR93

TS291 -UN-23AUG68

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.



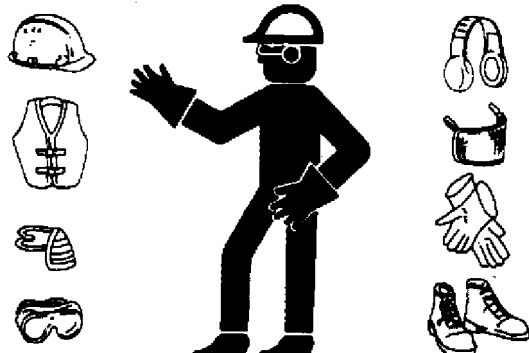
DX.FIRE3 -19-16APR92

TS1356 -UN-18MAR92

WEAR PROTECTIVE CLOTHING

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

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



DX.WEAR2 -19-03MAR93

TS206 -UN-23AUG68



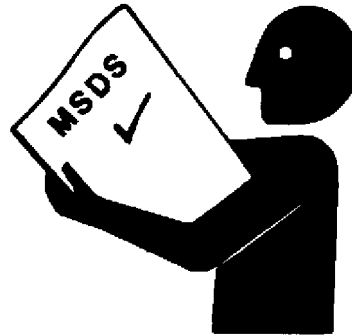
HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



DX,MSDS,NA -19-03MAR93

TS1132 -UN-26NOV90

STAY CLEAR OF HEADER

Many moving parts such as the cutting platform auger, reel, gatherer chain and stalk rolls of the corn head, cannot be completely shielded due to their function. Stay clear of these moving elements during operation! Always disengage header drive, shut off the engine and remove key before servicing or unclogging header.



H42442

H42442 -UN-10JAN91

OM,CTSSA,C -19-12MAR93

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



T5254 -UN-23AUG88

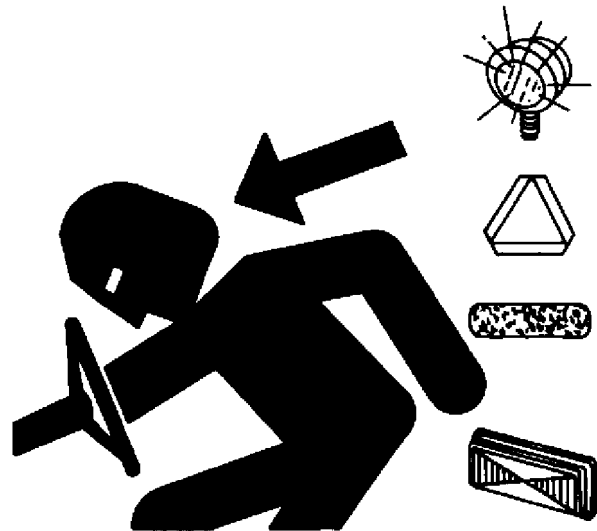
H01,9000SA,D -19-20MAR90



USE SAFETY LIGHTS AND DEVICES

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

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

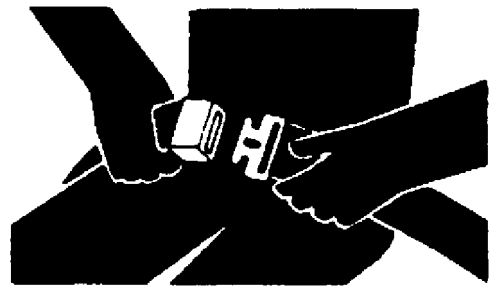


DX,FLASH -19-12SEP95

TS951 -UN-12APR90

USE SEAT BELTS

Use the seat belt whenever you operate the combine or ride as an observer.



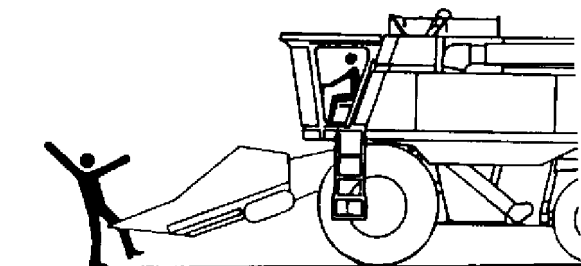
H47137

HX.9000SA,K -19-25OCT95

-UN-25OCT95
H47137

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

TS256
-UN-23AUG88

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 from a position on the engine compartment door, use a rod, broom or shovel to break the bridge and restore grain flow.

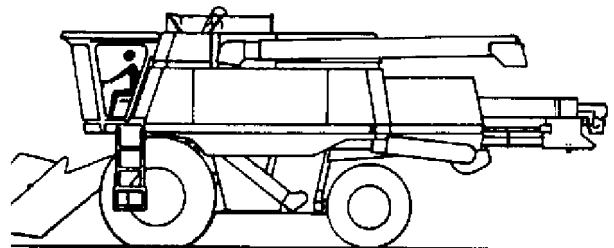


HX,CTS2SA,B -19-18SEP97

TS256
-UN-23AUG88

TRANSPORT COMBINE SAFELY

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



H44071

OM,CTSSA,A -19-23JAN92

H44071
-UN-05JAN92



PRACTICE SAFE MAINTENANCE

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

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



DX,SERV -19-03MAR93

TS218 -UN-23AUG88

REMOVE PAINT BEFORE WELDING OR HEATING

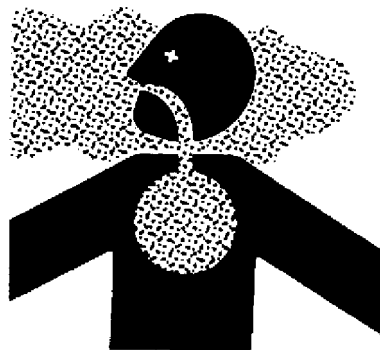
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

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



DX,PAINT -19-03MAR93

TS220 -UN-23AUG88



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



DX,TORCH -19-03MAR93

TS953 -UN-15MAY90

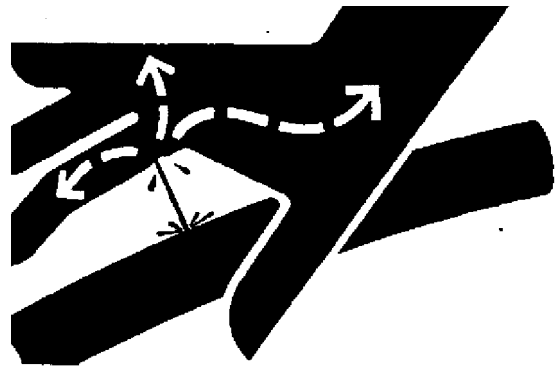
AVOID HIGH-PRESSURE FLUIDS

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

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

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

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



DX,FLUID -19-03MAR93

X9811 -UN-23AUG88



PROTECT AGAINST HIGH PRESSURE SPRAY

Spray from high pressure nozzles can penetrate the skin and cause serious injury. Keep spray from contacting hands or body.

If an accident occurs, see a doctor immediately. Any high pressure spray 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,SPRAY -19-16APR92

TSS1343 -UN-18MAR92

DISPOSE OF WASTE PROPERLY

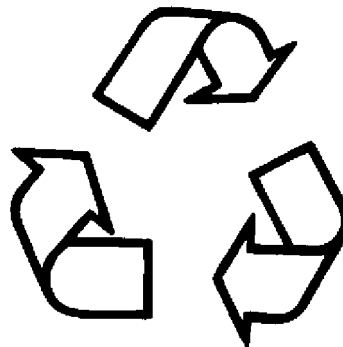
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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

TSS1133 -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

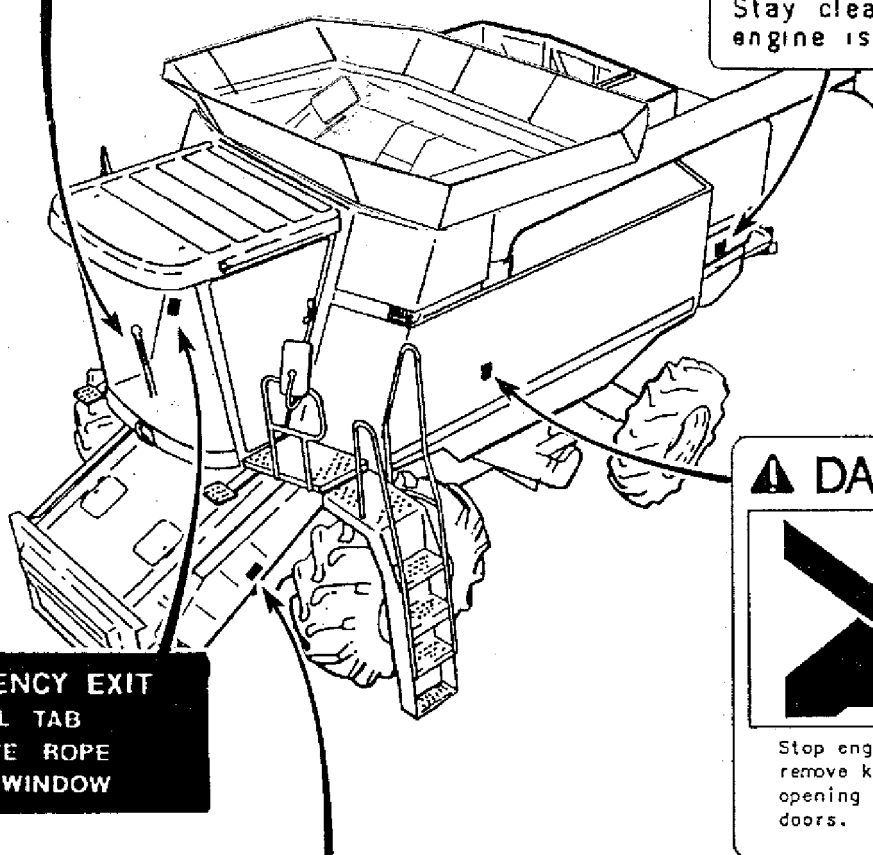
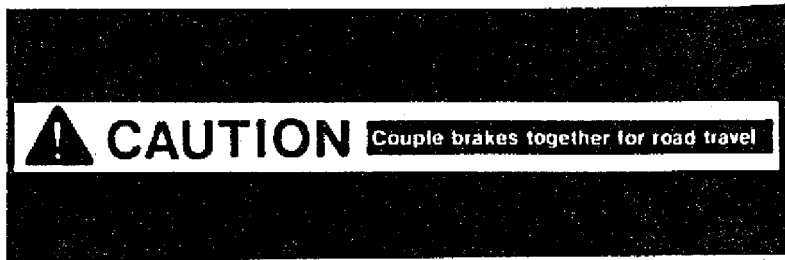
The build up of chaff and crop debris in the engine compartment, on the engine, and near moving parts is a fire hazard. Check and clean these areas frequently. Before performing any inspection or service, shut off the engine, set the parking brake and remove the key.



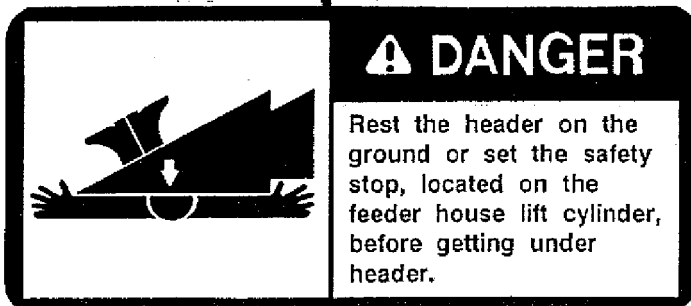
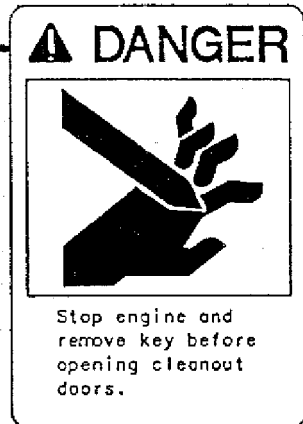
HX,9010SA,B -19-23AUG97

TS227 -UN-23AUG88

Safety Decal Location



EMERGENCY EXIT
PULL TAB
REMOVE ROPE
PUSH WINDOW



H49813

-19-28AUG97

H49813

OM.9500SS,A -19-18SEP97

Safety Decal Location

CAUTION

Avoid bodily injury from rotating auger and components:

Shut engine off and remove key before opening or closing auger.

Keep hands from pinch points when closing auger.

DANGER



DO NOT enter grain tank when engine is running.

DANGER



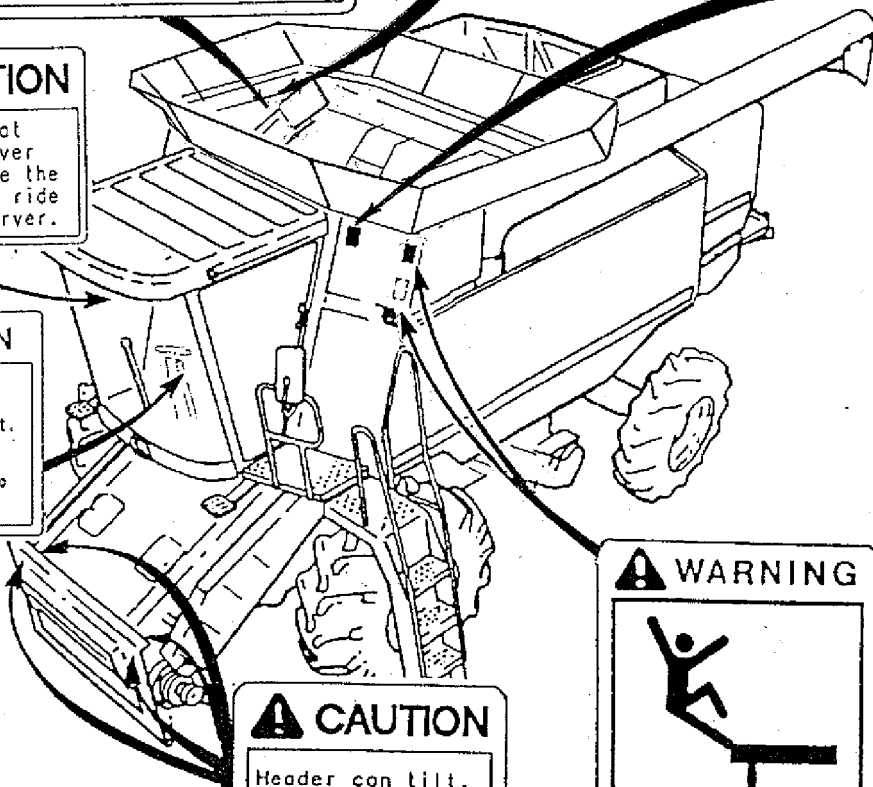
To avoid injury or death, DO NOT contact electric lines.

CAUTION

Use the seat belt whenever you operate the combine or ride as an observer.

CAUTION


1. Couple brakes together for road transport.
2. Engage park brake prior to leaving cab.



CAUTION

Header can tilt. Avoid crushing injuries. Stay clear when engine is running.

WARNING



Do not enter grain tank in this area.

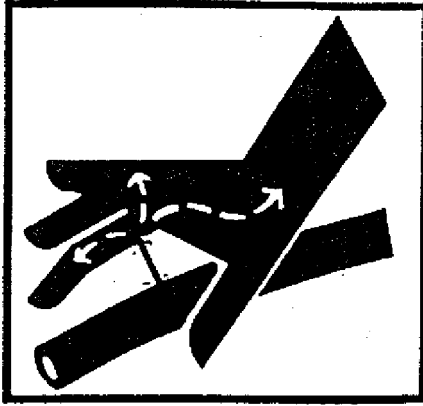
(COMBINES WITH CONTOUR MASTER ONLY)

H49814

-19-28AUG97

H49814

OM.9500SS,B -19-18SEP97



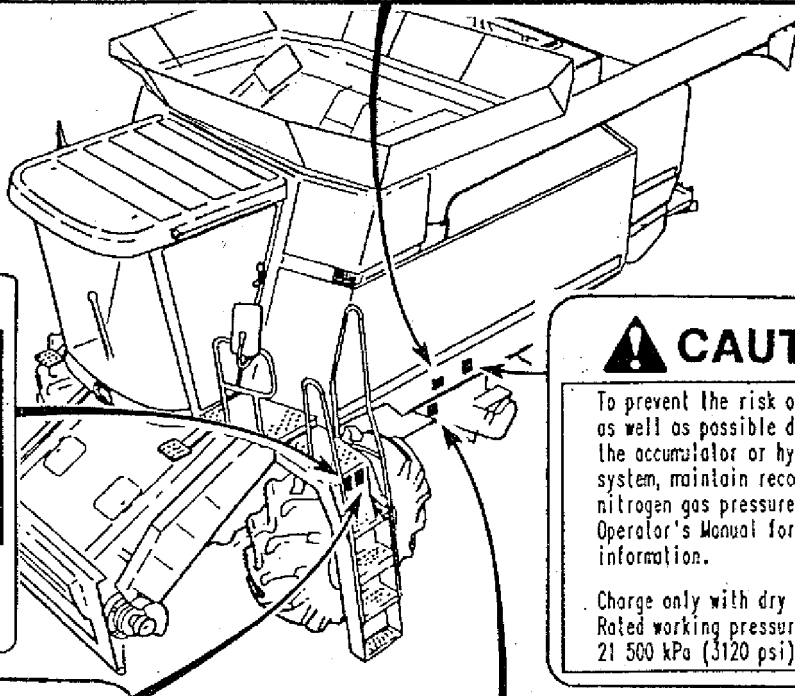
WARNING

Avoid bodily injuries from hydraulic oil and gas under pressure.

Before removing, disassembling or changing accumulator:

1. With feederhouse or header on the ground or in a supported position, open hand valve.
2. Start engine and hold header height control to lower position for 5 seconds to relieve system hydraulic pressure.
3. Stop engine.

Use only DRY NITROGEN for recharging accumulator. See your John Deere dealer



WARNING



Do not ride ladder while combine is moving.

CAUTION

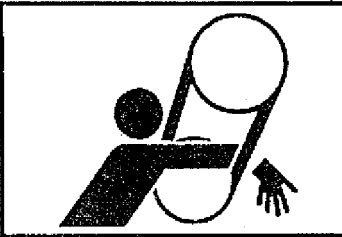
To prevent the risk of injury, as well as possible damage to the accumulator or hydraulic system, maintain recommended nitrogen gas pressure. See Operator's Manual for additional information.

Charge only with dry nitrogen. Rated working pressure is 21 500 kPa (3120 psi)

CAUTION

1. Keep all shields in place.
2. Disengage and shut off all engine and/or motor power before servicing or unclogging machine.
3. Keep hands, feet, and clothing away from power-driven parts.

WARNING




Never raise shield with the engine running. Stop engine and remove key.

H49815

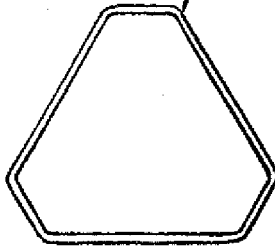
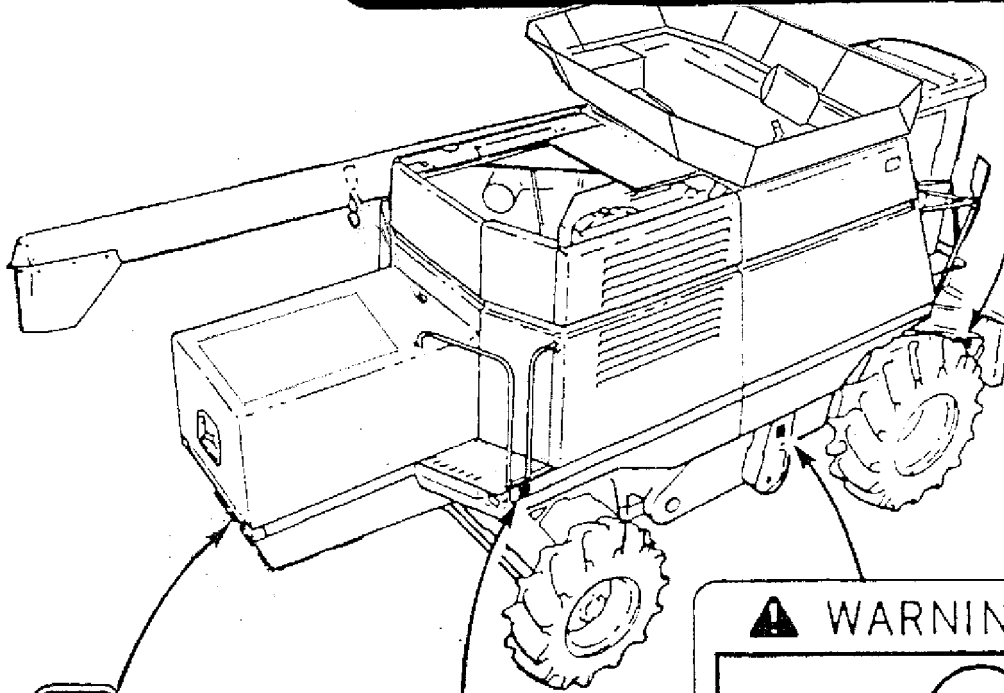
-19-28AUG97
H49815

Safety Decal Location



⚠ DANGER

Rest the header on the ground or set the safety stop, located on the feeder house lift cylinder, before getting under header.




⚠ WARNING



Do not ride ladder while combine is moving.

⚠ WARNING



Never raise shield with the engine running. Stop engine and remove key.

H49816

H49816
-19-28AUG97

OM,CTSSS.A -19-18SEP97

WARNING



Avoid bodily injury from rotating fan and screen components:
Shut engine off and remove key before opening rotary screen door.

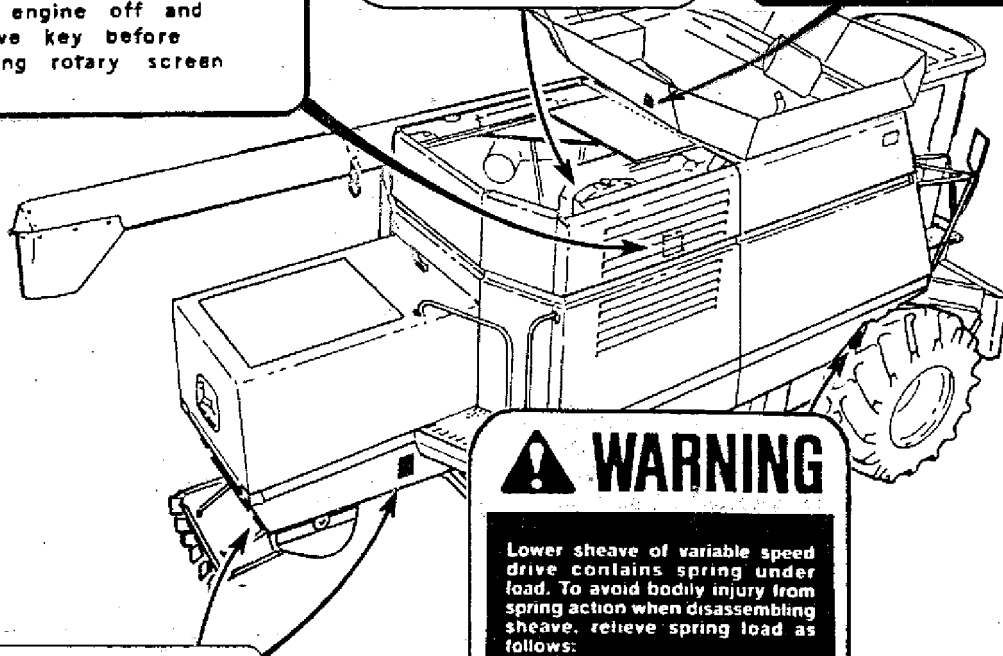
WARNING

Pressure cooling system
Remove cap slowly


DANGER



DO NOT enter grain tank when engine is running.



WARNING



Stay clear while engine is running.

WARNING

Lower sheave of variable speed drive contains spring under load. To avoid bodily injury from spring action when disassembling sheave, relieve spring load as follows:

1. Set variable speed drive at low speed position (lower sheaves closed).
2. Loosen bolt on outer end of shaft but DO NOT REMOVE.
3. Release outer sheave half from shaft taper (by tapping or with a puller) so that spring forces bearing against bolt head.
4. Remove bolt.

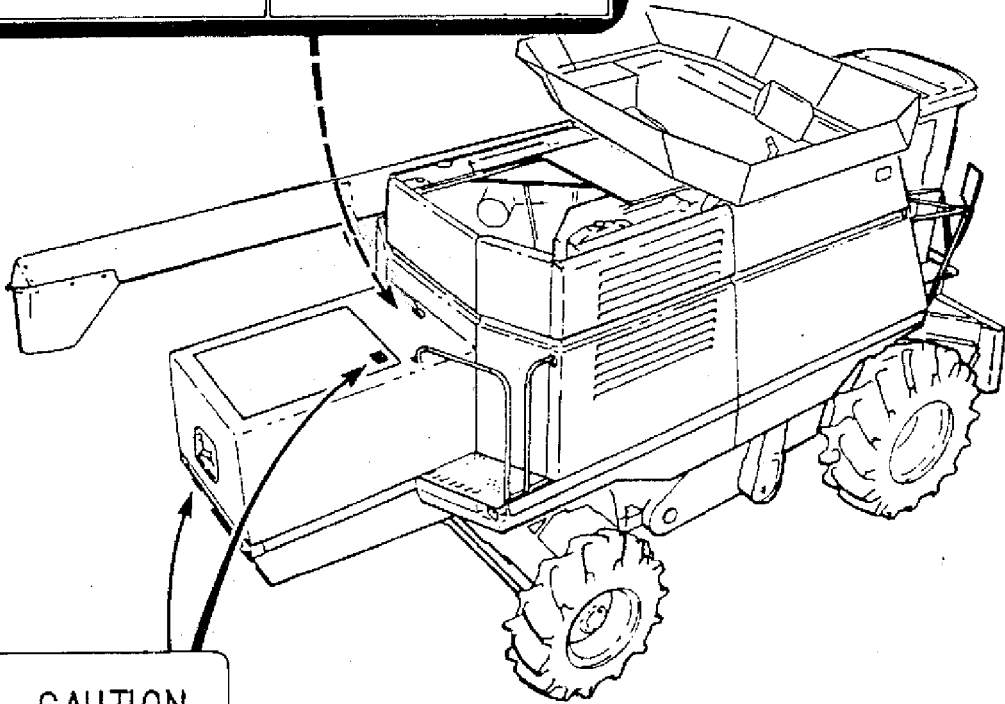
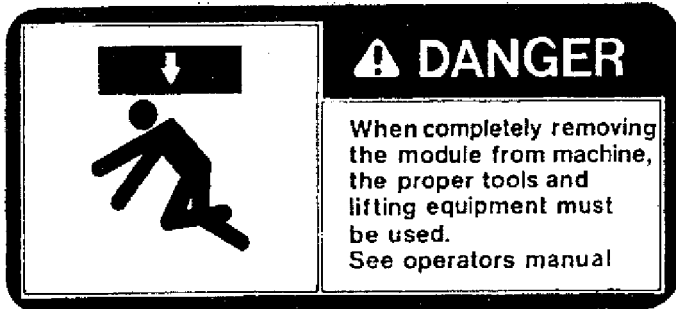
See detailed instructions in the Operator's Manual.

H49817

-19-17SEP97

H49817

OM,CTSSS,B -19-18SEP97



H49818

-19-17SEP97

H49818

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