

**6650, 6750,  
6850 and 6950  
Self-Propelled  
Forage Harvesters**  
(From Serial No. 504341)

**John Deere Werke Zweibrücken  
OMZ92839 Issue K9**

North American Version  
LITHO IN U.S.A.  
ENGLISCH

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A John Deere ILLUSTRATION® Manual

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# Identification Views



ZX012524

ZX012524 -UN-20AUG97



ZX012525

ZX012525 -UN-21AUG97

# 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

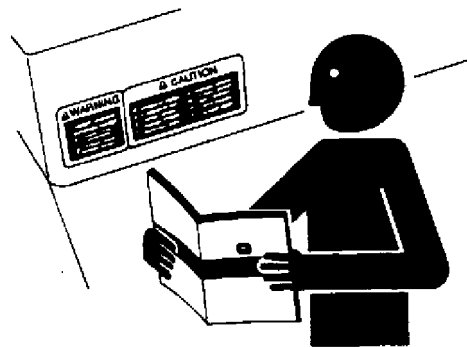
## FOLLOW SAFETY INSTRUCTIONS

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

T5201 -UN-23AUG88

## 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

T5187 -19-30SEP88



## OBSERVE ROAD TRAFFIC REGULATIONS

Always observe local road traffic regulations when using public roads.



FX,ROAD -19-01MAY91

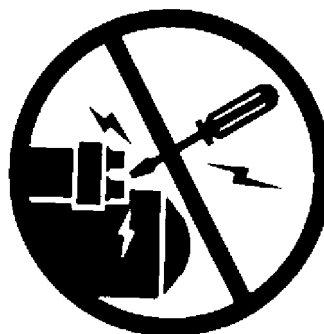
H28930 -UN-30JUN89

## PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.



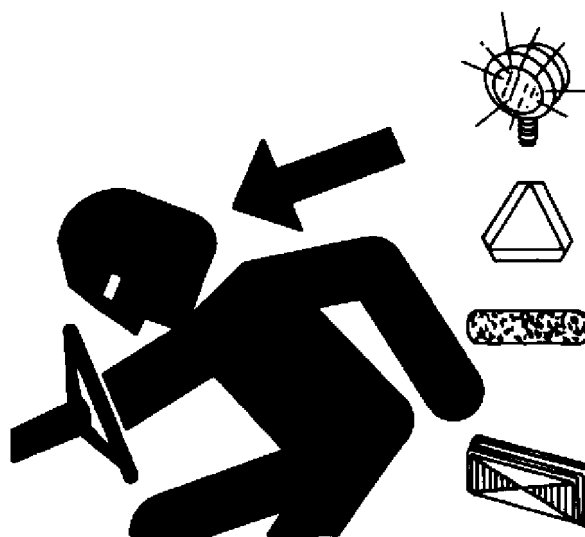
DX,BYPAS1 -19-29SEP98

TS177 -UN-11JAN69

## 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 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, clean, 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 -19-07JUL99

TS951 -UN-12APR90





## 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

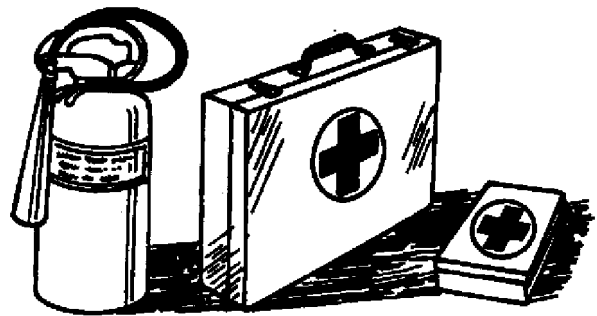
TS202  
-UN-23AUG88

## 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



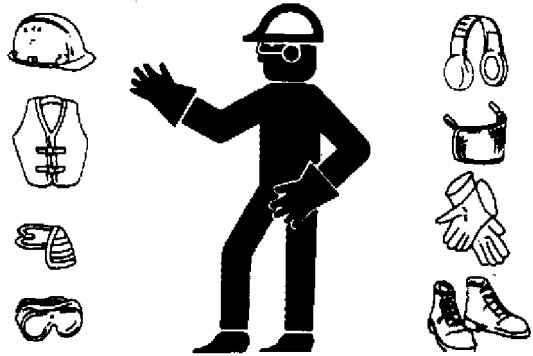
## WEAR PROTECTIVE CLOTHING

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.



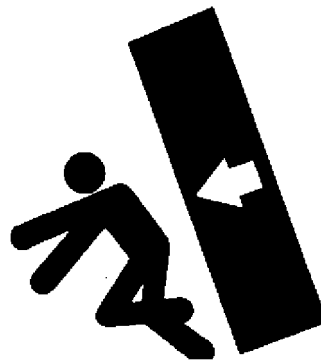
DX,WEAR -19-10SEP90

TS206 -UN-23AUG88

## 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.

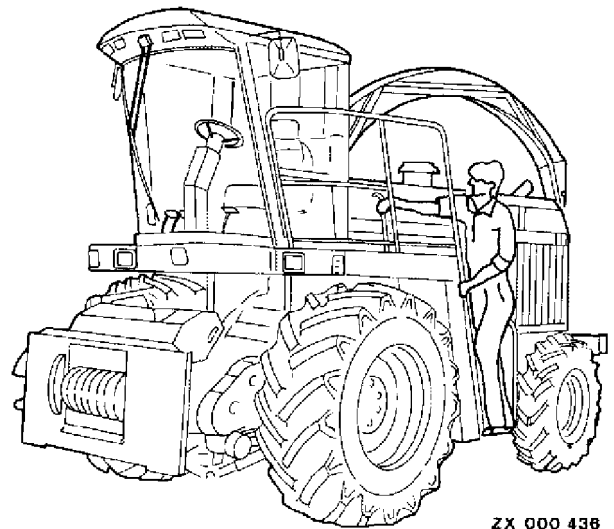


DX,STORE -19-03MAR93

TS219 -UN-23AUG88

## MOUNT AND DISMOUNT SAFELY

Use handrail when mounting or dismounting the harvester.



ZX 000 438

ZX,HANDLE -19-01OCT91

TS206 -UN-03APR95



## OPERATE FORAGE HARVESTER SAFELY

All machinery should only be operated by persons who have been properly instructed.

Never stand in the path of discharge spout while cutterhead and fan are turning.

Never open cutterhead or fan housing doors while cutterhead is turning.

Always operate machine at rated engine speed.



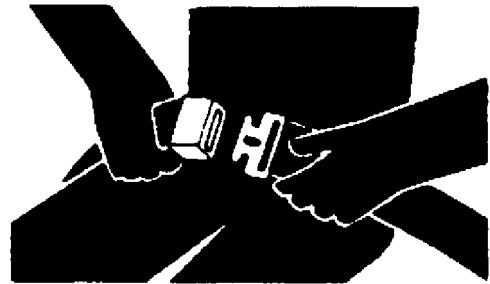
-UN-23AUG88

TS263

ZX,CAUTIONUS -19-01MAR93

## WEAR SEAT-BELT

The machine operator and passenger should wear the seat-belt all times.



H47137

-UN-25OCT95

H47137

ZX,SEATBELT -19-01DEC96

## KEEP RIDERS OFF THE MACHINE

Only allow the operator and one rider in the operator's station.

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.



-UN-23AUG88

TS263

ZX,PASSENGERUS -19-01MAR93



## DRIVING THE FORAGE HARVESTER

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.

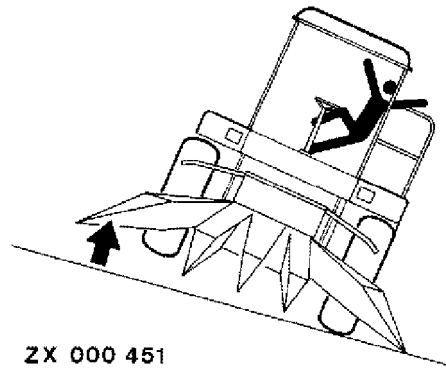
Always adapt ground speed to road or field conditions. Avoid making sharp turns when driving up or down slopes or when driving across a slope.

Attach harvesting units and other implements to forage harvester with extreme care.

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

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 forage harvester to tip, particularly on hillsides.



ZX 000 451

ZX000451 -JUN-05APR95

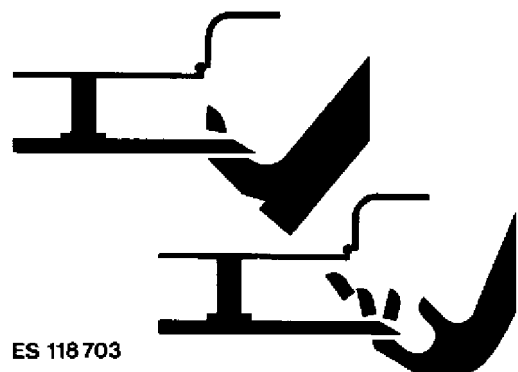
ZX,DRIVE -19-02OCT91

## 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 118 703

ES118703 -JUN-21MAR95

FX,DEVICE -19-04DEC90



## 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

ES118704 -UN-21MAR95

## KEEP HANDS AWAY FROM KNIVES

Never attempt to clear obstructions in front of or on harvesting unit unless main clutch is disengaged, engine shut off and key removed.

Everyone must be clear of the forage harvester before starting the engine.



FX,KNIFE -19-21DEC90

TS254 -UN-23AUG88

## 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.

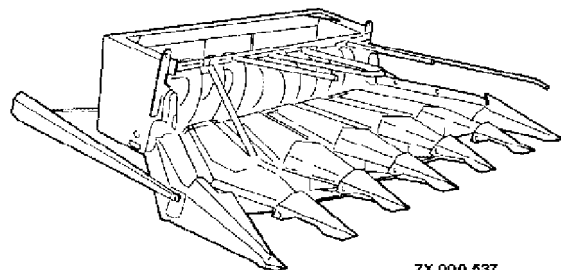


DX,PTO -19-12SEP95

TS1644 -UN-22AUG95

## AVOID ENTANGLEMENT

To avoid entanglement, do not feed crop into machine by hand or attempt to manually unplug machine while it is running. The feed rolls can feed crop material in faster than you can release your grip on the material.



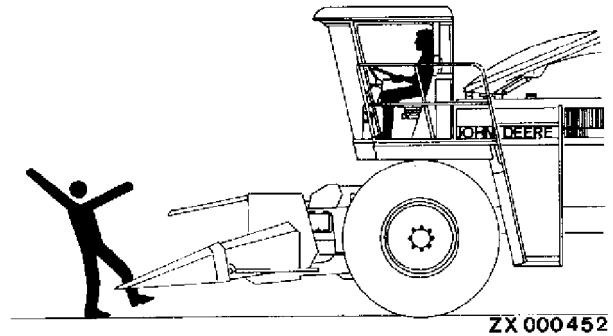
ZX,FEEDROLL -19-04DEC90

ZX000537 -UN-03APR95



## TRANSPORT WITH HARVESTING UNIT INSTALLED

Before driving forage harvester on public roads, harvesting unit must be raised. It must not, however, obstruct the operator's view of the road.

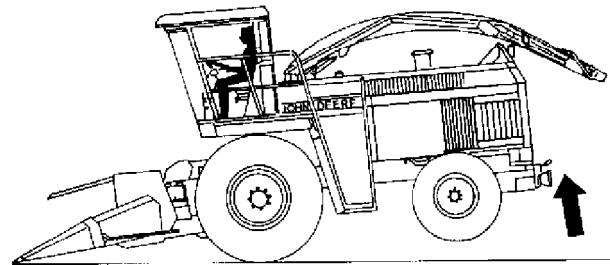


ZX\_HEADERUS -19-01MAR93

-UN-03APR95  
ZX000452

## BALLASTING FOR SAFE GROUND CONTACT

Operating, steering and braking performance of forage harvester can be considerably affected by attachments which alter the center of gravity of the machine. To maintain safe ground contact, ballast the harvester at the rear end as necessary. Observe the maximum permissible axle loads and total weights.



ZX\_WEIGHT -19-02OCT91

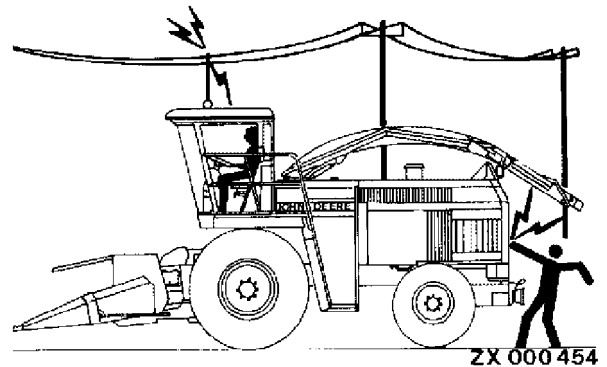
-UN-03APR95  
ZX000453

## AVOID POWER LINES

If radio aerial and CB aerial (optional) are not secured in transport position before driving on public roads, they may come into contact with low-hanging electrical cables. This could result in the operator suffering a severe electrical shock.

To avoid electrical shock, no portion of the machine should be higher than 4 m (13 ft).

Before transporting machine, lower aerial or remove it.



ZX\_ANTENNAUS -19-01MAR93

-UN-03APR95  
ZX000454



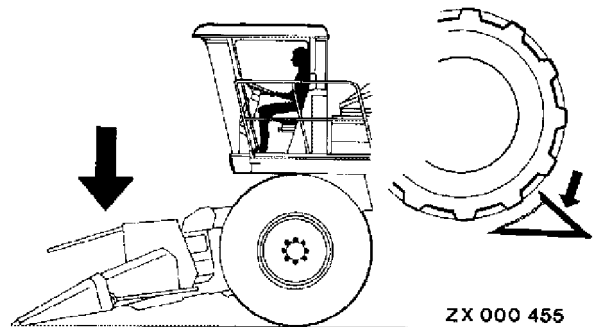
## PARKING AND LEAVING THE FORAGE HARVESTER

Lower harvesting unit to the ground.

Before leaving the forage harvester, disengage main clutch and shut off engine. Move gear shift lever to neutral, apply parking brake, remove key and lock the operator's cab.

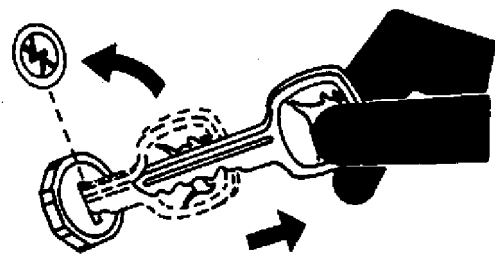
Never leave forage harvester unattended as long as engine is running.

Never leave the operator's cab when driving.



-UN-03APR95

ZX000455



-UN-24MAY89

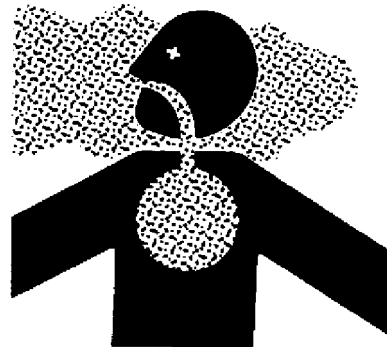
TS230

ZX\_PARKUS -19-01JAN93

## 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.



-UN-23AUG88

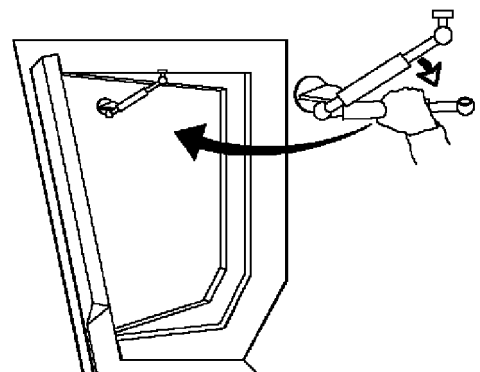
TS220

DX,AIR -19-04JUN90

## EMERGENCY EXIT

The right-hand cab window may be used as an emergency exit. Disengage the gas-filled spring on the sidewall of the cab and open the window.

ZX 006004



-UN-03APR95

ZX006004

ZX,OMSPFH003293-19-01MAY94



## 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.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.



DX,SERV -19-04FEB99

-UN-23AUG88

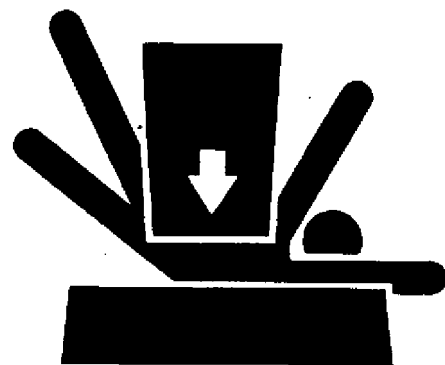
TSS218

## 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. If left in a raised position, hydraulically supported devices can settle or leak down.

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.

When implements or attachments are used with a tractor, always follow safety precautions listed in the implement operator's manual.



DX,LOWER -19-04FEB99

-UN-23AUG88

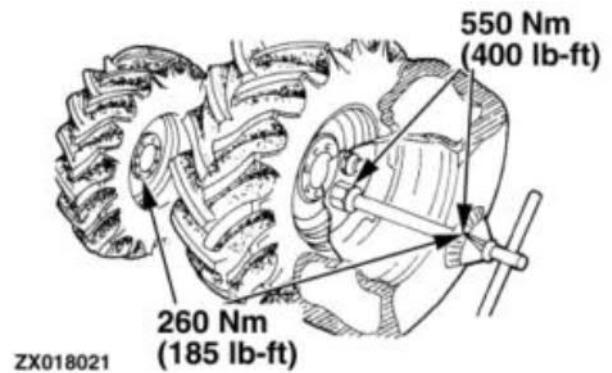
TSS229





## RETORQUE WHEEL NUTS

Retorque wheel nuts as specified in Sections "Wheels and Ballast" and "Lubrication, Periodic Services". 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.NUTSSPFH -19-01NOV99

-UN-29OCT99  
ZX018021

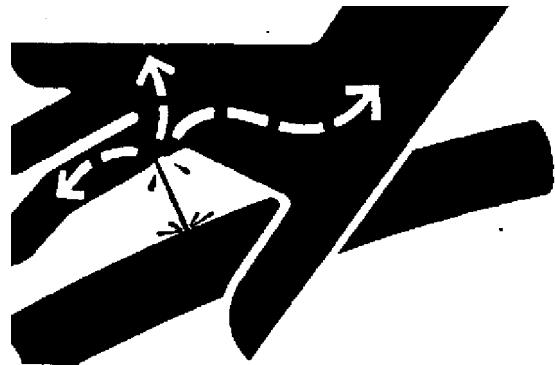
## AVOID HIGH-PRESSURE FLUIDS

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

-UN-23AUG88  
X9811

## 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

-UN-23AUG88  
TS281



## DISPOSE OF WASTE PROPERLY

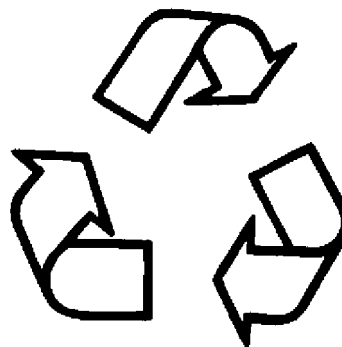
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.

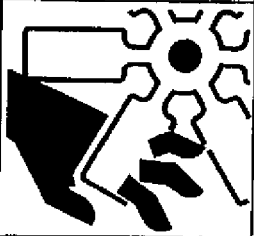


TS1133 -UN-26NOV90

DX,DRAIN -19-03MAR93

# Safety Decals

**WARNING**



Avoid bodily injury from rotating engine fan: Keep hands out of fan discharge area when engine is running.

**DANGER**

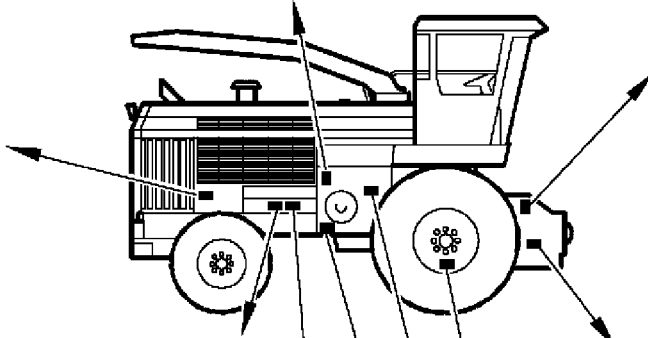


Start only from seat in park or neutral. Starting in gear kills.





**WARNING**



Avoid bodily injuries from rotating knives. Keep hands out of knife area when cutter head is turning.



**DANGER/POISON**

 <p>SHIELD EYES EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY</p>	 <p>NO SPARKS FLAMES SMOKING</p>	 <p>SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS</p>	<p>FLUSH EYES IMMEDIATELY WITH WATER</p>  <p>GET MEDICAL HELP FAST</p>
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KEEP OUT OF THE REACH OF CHILDREN, DO NOT TIP, KEEP VENT CAPS TIGHT AND LFVFL

**WARNING**

Components behind guards or access doors in this area may rotate, possibly several minutes, after power is shut off.

To avoid bodily injury:

1. Look and listen for evidence of rotation.
2. Do not open or remove guard or access door until all components have stopped.


**CAUTION**

**BOOSTER CABLE INSTRUCTIONS**

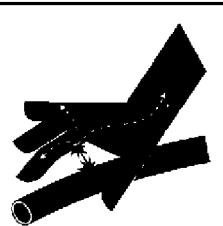
1. ON A NEGATIVE GROUNDED SYSTEM CONNECT ENDS OF ONE CABLE TO POSITIVE (+) TERMINAL OF EACH BATTERY
2. CONNECT ONE END OF OTHER CABLE TO NEGATIVE (-) TERMINAL OF THE BOOSTER BATTERY
3. CONNECT THE OTHER END OF THE CABLE, AWAY FROM THE BATTERY, TO THE ENGINE BLOCK, FRAME, OR SOME OTHER GOOD METALLIC GROUND
4. REVERSE PROCEDURE WHEN DISCONNECTING

**IMPORTANT**

TORQUE WHEEL BOLTS TO 400 LB-FT (550 NM) RETORQUE AT LEAST ONCE AFTER ONE HOUR OF OPERATION EACH TIME THE WHEEL IS REPOSITIONED. EACH NEW WHEEL MUST ALSO BE RETORQUED.



**WARNING**

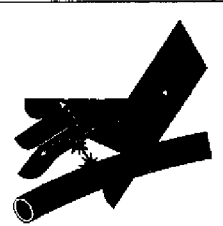


AVOID BODILY INJURIES FROM HYDRAULIC OIL AND GAS UNDER PRESSURE BEFORE REMOVING, DISASSEMBLING OR CHARGING ACCUMULATOR.

1. SWITCH IGNITION ON WITHOUT STARTING ENGINE
2. ACTUATE SLOWLY MAIN SWITCH FOR 25 ON-OFF CYCLES TO RELIEF SYSTEM HYDRAULIC PRESSURE
3. SWITCH IGNITION OFF

USE ONLY DRY NITROGEN FOR RECHARGING ACCUMULATOR. SEE YOUR JOHN DEERE DEALER.

**WARNING**



AVOID BODILY INJURIES FROM HYDRAULIC OIL AND GAS UNDER PRESSURE BEFORE REMOVING, DISASSEMBLING OR CHARGING ACCUMULATOR.

1. SWITCH ENGINE AND DEPRESS SWITCHES FOR HEADER DOWN AND FLOTATION DISCHARGING SIMULTANEOUSLY FOR 5 SECONDS AFTER ROLLERBOX OR HEADER IS ON THE GROUND OR IN A SUPPORTED POSITION TO RELIEF SYSTEM HYDRAULIC PRESSURE.
2. STOP ENGINE.

USE ONLY DRY NITROGEN FOR RECHARGING ACCUMULATOR. SEE YOUR JOHN DEERE DEALER.

ZX012542

ZX.STICKERUS1 -19-01NOV97



**WARNING**

**Be Safe--Avoid Bodily Injury**

Before operating machine, add rear ballast as specified in Operator's Manual. Failure to add proper amount of ballast can result in vehicle instability and loss of steering control.

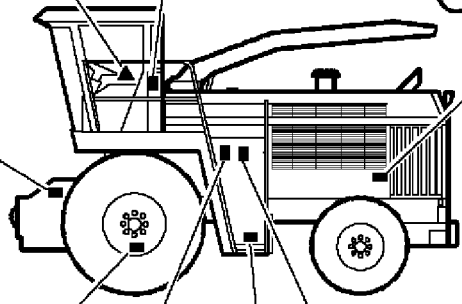
**WARNING**

**Avoid bodily injury from rotating engine fan: Keep hands out of fan discharge area when engine is running.**

**DANGER!**

ROTATING KNIVES CAN CAUSE SERIOUS INJURY OR DEATH.

NEVER OPERATE ENGINE WITH FEEDROLL HOUSING OPEN.



**IMPORTANT**

TORQUE WHEEL BOLTS TO 400 LB-FT (550 NM) RETORQUE AT LEAST ONCE AFTER ONE HOUR OF OPERATION EACH TIME THE WHEEL IS REPOSITIONED EACH NEW WHEEL MUST ALSO BE RETORQUED

**CAUTION**

**TO AVOID SERIOUS PERSONAL INJURY :**

NEVER SEARCH FOR DETECTED METAL UNTIL YOU

1. DISENGAGE ALL DRIVES.
2. SHUT OFF THE ENGINE AND IGNITION SWITCH.
3. WAIT FOR ALL PARTS TO STOP MOVING. \*

**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**

AVOID BODILY INJURIES FROM HYDRAULIC OIL AND GAS UNDER PRESSURE.

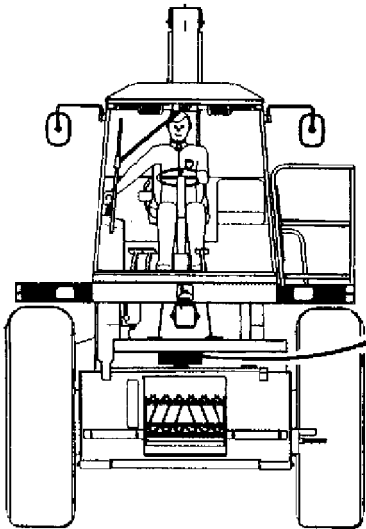
BEFORE REMOVING, DISASSEMBLING OR CHARGING ACCUMULATOR :

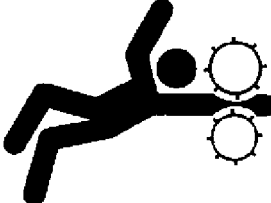
1. SWITCH ENGINE AND DEPRESS SWITCHES FOR HEADER DOWN AND FLOTATION DISCHARGING SIMULTANEOUSLY FOR 5 SECOND AFTER ROLLERBOX OR HEADER IS ON THE GROUND OR IN A SUPPORTED POSITION TO RELIEF SYSTEM HYDRAULIC PRESSURE.
2. STOP ENGINE.

USE ONLY DRY NITROGEN FOR RECHARGING ACCUMULATOR. SEE YOUR JOHN DEERE DEALER.

ZX012543

ZX.STICKERUS2 -19-01NOV97





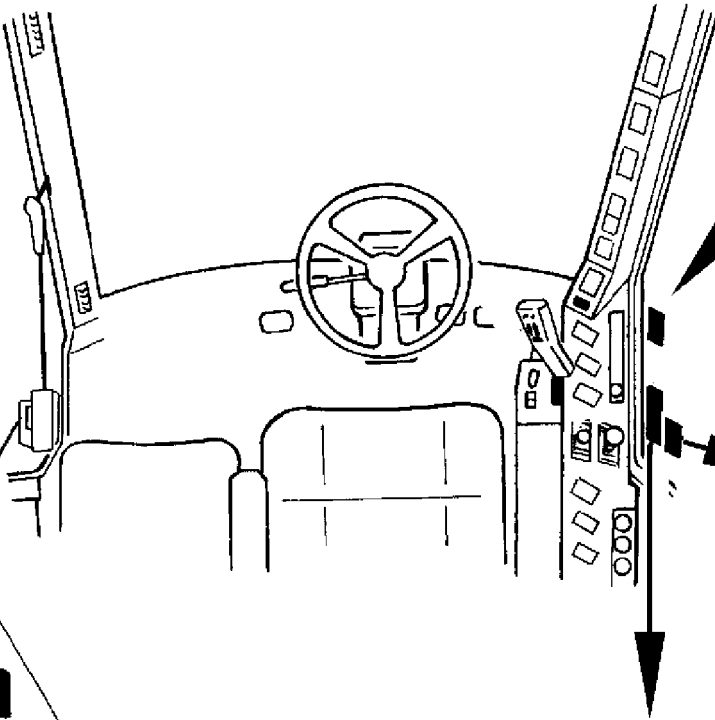
## ! DANGER

Avoid death or serious injury from entanglement in the feed rolls.

The harvester takes crop faster than you can release it.

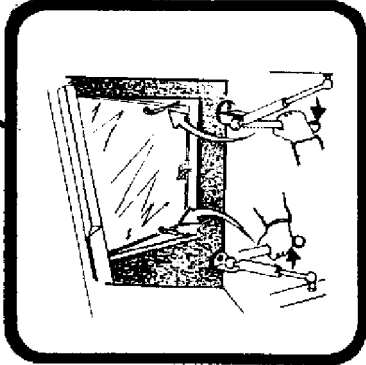
**NEVER** feed with hands or feet or use as a manually-fed stationary machine.

Disengage drives and shut off engine before manually unplugging.



## ! CAUTION

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





**SAFETY**  
live with it

## IMPORTANT

ENGINE WILL NOT START UNLESS HYDROSTATIC CONTROL LEVER IS IN NEUTRAL AND MAIN CLUTCH SWITCH IS OFF.

MAIN CLUTCH CANNOT BE ENGAGED UNLESS FEEDROLL HOUSING IS CLOSED AND HEADER SWITCH IS IN NEUTRAL.

ZX009979

ZX009979 -JUN-09DEC96

ZX.STICKERUS3 -19-01DEC96

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