

# 8100—8600 Self-Propelled Forage Harvesters

(Serial No. 623000 - )



JOHN DEERE

## OPERATOR'S MANUAL

8100—8600 Self-Propelled Forage  
Harvesters (From SN 623000)

OMDXE12645 ISSUE F2 (ENGLISH)



John Deere GmbH & Co. KG  
John Deere Werke Zweibrücken  
European/Export Edition  
PRINTED IN U.S.A.

# Introduction

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## Foreword



ZX346791

*Identification View*

ZX346791—UN—10APR18

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 FORAGE-HARVESTER 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 FORAGE-HARVESTER 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 forage-harvester will relieve the manufacturer of all liability for any resulting damage or injury.

REGISTER USED PRODUCTS. If you purchased used

John Deere products from an authorized John Deere dealer, the warranty registration information was updated by the dealer and requires no further information on your part.

If you purchased any used John Deere product from an auction, through a trader or from a farmer, please register it now. John Deere and John Deere dealers value their customer's safety and satisfaction. Your local John Deere dealer is best equipped and anxious to provide you superior levels of support for your machine. Please enter your product details and your address online, using the John Deere website corresponding to your country. Then select the dealer of your choice and you will receive a voucher for a discount towards a qualifying purchase of John Deere parts.

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shall be operated, used, and maintained in accordance with the instructions provided in this manual to maintain the emissions performance of the engine within the requirements applicable to the engine's category/certification.

### Tampering

No deliberate tampering with or misuse of the engine emissions control system shall take place; in particular with regard to deactivating or not maintaining an exhaust gas recirculation (EGR) or a DEF dosing system. Tampering with an engine's emissions control system will void the European Union (EU) type approval and applicable emissions-related warranties.

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## Emissions Performance and Tampering Operation and Maintenance

The engine, including the emissions control system,

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AutoLoc™	
Bluetooth®	Registered trademark of Bluetooth SIG
Break-In™	Trademark of Deere & Company
Cetus® and HyperSyn®	Registered trademark of Chevron Corporation
ClimaTrak™	Trademark of Deere & Company
ComfortCommand™	
Cool-Gard™	
Cool-Gard™ II	
CoolScan™	
CoolScan™ PLUS	Trademark of Shell Oil Company
Corena™	
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Renolin®	Registered trademark of Fuchs Petrolub SE
Service ADVISOR™	Trademark of Deere & Company
SERVICEGARD™	
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**Trademarks**

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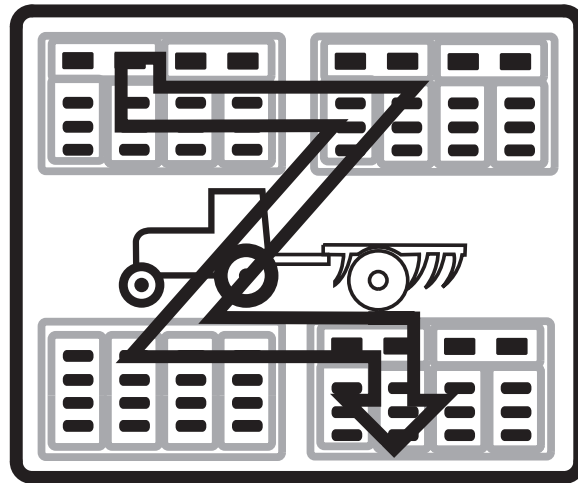
**A Message to Our Customers**

We appreciate the confidence placed in us by the purchase of this machine. To ensure that the machine performs at the highest level, countless hours were spent designing and testing, before this machine was produced. To achieve the maximum performance, it is imperative that this machine is operated in accordance with the procedures outlined in this manual.

Information in this manual is divided into sections. The section names are identified in the table of contents and at the top of each page. Each section has a unique number and page count. Specific information within each section is organized into topics identified with bold headings.

The topic headings are listed in the table of contents with the section number and page number where the topic begins. Topics and information related to each topic are also referenced in the index along with the section and page number.

over and down the right-hand side, and repeats on the next page. Images precede the related text in the flow.



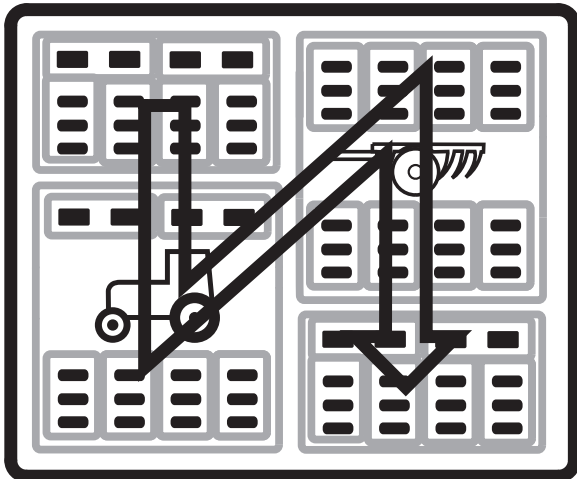
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The flow can divide both before and after the images and tables that span the width of a page.

Review this manual often to learn where to look for information.

Thanks again for purchasing this machine.

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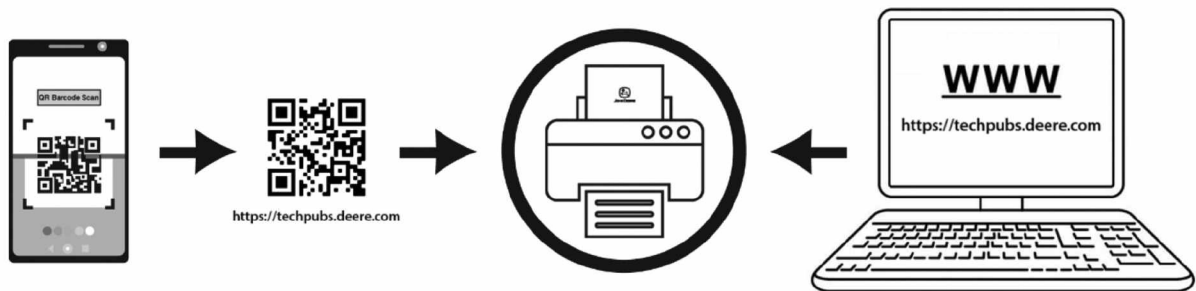
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# Safety

## Recognize Safety Information



T81389—UN—28JUN13

This is a 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

## Understand Signal Words



**▲ WARNING**

**▲ CAUTION**

TS187—19—30SEP88

**DANGER;** The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING;** The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION;** The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

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-19-05OCT16

## Follow Safety Instructions



TS201—UN—15APR13

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.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

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-19-16JUN09

## Observe Road Traffic Regulations

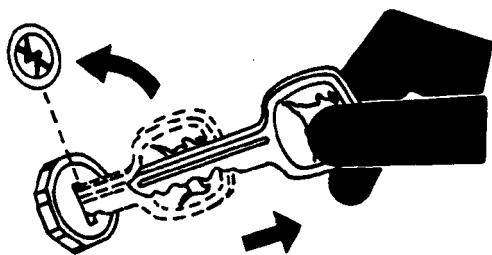


H28930—UN—30JUN89

Always observe local road traffic regulations when using public roads.

FX,ROAD-19-01MAY91

## Parking and Leaving the Machine



TS230—UN—24MAY89

Lower header to the ground.

Before leaving the machine, disengage main clutch and shut off engine. Apply park brake, remove key and lock the operator's cab. Position chock blocks.

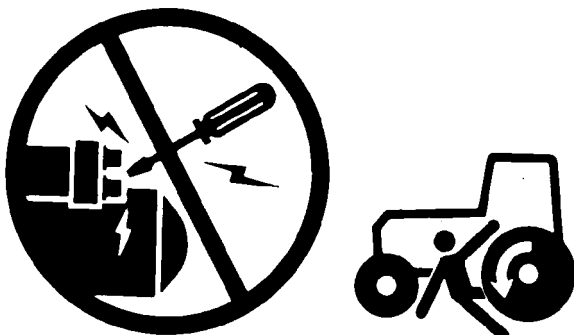
**NOTE:** Use only chock blocks provided with the machine.

Never leave machine unattended as long as engine is still running.

Never leave the operator's cab when driving.

OUCC002,0004221-19-15DEC14

## Prevent Machine Runaway



TS177—UN—11JAN89

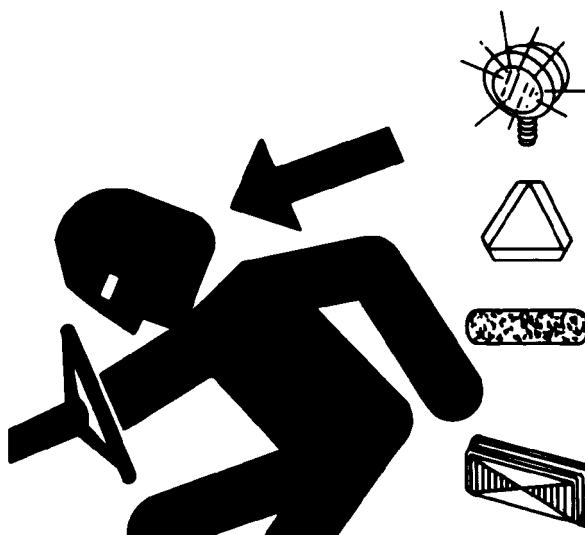
Avoid possible injury or death from machinery runaway.

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

## Use Safety Lights and Devices



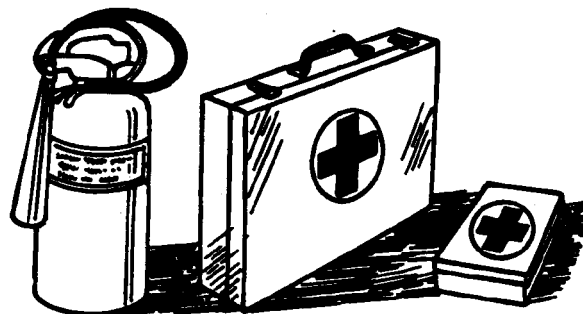
TS951—UN—12APR90

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

## Prepare for Emergencies



TS291—UN—15APR13

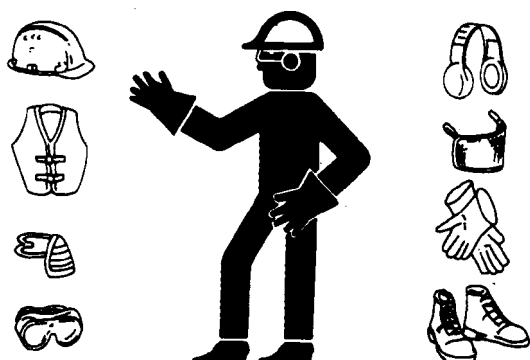
Be prepared if a fire starts.

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

## Wear Protective Clothing



TS206—UN—15APR13

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

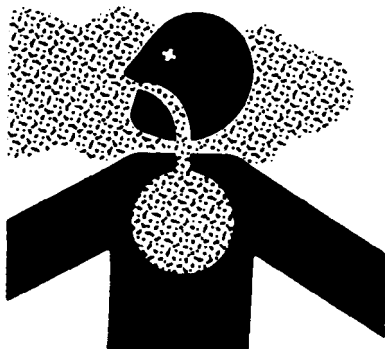
Prolonged exposure to loud noise can cause impairment or loss of hearing.

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

## Handle Agricultural Chemicals Safely



TS220—UN—15APR13



A34471

A34471—UN—11OCT88

Chemicals used in agricultural applications such as

fungicides, herbicides, insecticides, pesticides, rodenticides, and fertilizers can be harmful to your health or the environment if not used carefully.

Always follow all label directions for effective, safe, and legal use of agricultural chemicals.

Reduce risk of exposure and injury:

- Wear appropriate personal protective equipment as recommended by the manufacturer. In the absence of manufacturer's instructions, follow these general guidelines:
  - Chemicals labeled **'Danger'**: Most toxic. Generally require use of goggles, respirator, gloves, and skin protection.
  - Chemicals labeled **'Warning'**: Less toxic. Generally require use of goggles, gloves, and skin protections.
  - Chemicals labeled **'Caution'**: Least toxic. Generally require use of gloves and skin protection.
- Avoid inhaling vapor, aerosol or dust.
- Always have soap, water, and towel available when working with chemicals. If chemical contacts skin, hands, or face, wash immediately with soap and water. If chemical gets into eyes, flush immediately with water.
- Wash hands and face after using chemicals and before eating, drinking, smoking, or urination.
- Do not smoke or eat while applying chemicals.
- After handling chemicals, always bathe or shower and change clothes. Wash clothing before wearing again.
- Seek medical attention immediately if illness occurs during or shortly after use of chemicals.
- Keep chemicals in original containers. Do not transfer chemicals to unmarked containers or to containers used for food or drink.
- Store chemicals in a secure, locked area away from human or livestock food. Keep children away.
- Always dispose of containers properly. Triple rinse empty containers and puncture or crush containers and dispose of properly.

DX,WW,CHEM01-19-24AUG10

## Handle Fuel Safely—Avoid Fires



TS202—UN—23AUG88

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.

Use only an approved fuel container for transporting flammable liquids.

Never fill fuel container in pickup truck with plastic bed liner. Always place fuel container on ground before refueling. Touch fuel container with fuel dispenser nozzle before removing can lid. Keep fuel dispenser nozzle in contact with fuel container inlet when filling.

Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.

DX,FIRE1-19-12OCT11

## Store Attachments Safely



TS219—UN—23AUG88

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.

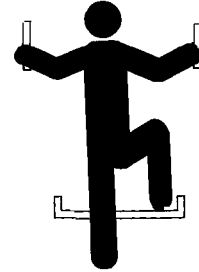
DX,STORE-19-03MAR93

## Check Machine Safety

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

FX,READY-19-28FEB91

## Use Steps and Handholds Correctly



T133468—UN—15APR13

Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.

Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.

DX,WW,MOUNT-19-12OCT11

## Handle Electronic Components and Brackets Safely



TS249—UN—23AUG88

Falling while installing or removing electronic components mounted on equipment can cause serious injury. Use a ladder or platform to easily reach each mounting location. Use sturdy and secure footholds and handholds. Do not install or remove components in wet or icy conditions.

If installing or servicing a RTK base station on a tower or other tall structure, use a certified climber.

If installing or servicing a global positioning receiver mast used on an implement, use proper lifting techniques and wear proper protective equipment. The mast is heavy and can be awkward to handle. Two

people are required when mounting locations are not accessible from the ground or from a service platform.

DX,WW,RECEIVER-19-24AUG10

## Use Electronic Display Properly

Electronic Displays are secondary devices intended to aid the operator in performing field operations, increase comfort and provide entertainment. Displays can offer a wide range of functionality, are used in many different machine system applications and can be used with other secondary devices such as handheld electronic devices.

A secondary device is any device that is not required to operate your machine for its primary use. The operator is always responsible for safe operation and control of the machine.

To prevent injury while operating the machine:

- Position the display according to the installation instructions. Ensure the device is secured and does not obstruct the driver's view or interfere with the machine operating controls.
- Do not become distracted by the display. Stay alert. Pay attention to the machine and surrounding environment.
- Do not change settings or access any functions that require prolonged use of the display controls while machine is moving. Stop the machine in a safe location and place in park position before attempting such operations.
- Never set the volume so high that you cannot hear outside traffic and emergency vehicles.

To promote safe operation, certain functions of displays may be disabled unless the machine movement is restricted and/or has been placed in the park position. Overriding this safety feature may violate applicable law and can result in damage, serious injury or death.

Only use available display functionality when conditions permit you to do so safely and in accordance with instructions provided. Always observe safe driving rules, state or local laws and traffic regulations when using any secondary device.

RR94114,0001FFA-19-18DEC14

## Operate Guidance Systems Safely

Do not use AutoTrac system on roadways.

- Always turn off (Deactivate and Disable) AutoTrac™ system before entering a roadway.
- Do not attempt to turn on (Activate) AutoTrac™ system while transporting on a roadway.

The AutoTrac™ system is intended to aid operator in

performing field operations more efficiently. Operator is always responsible for machine path. To prevent injury to operator and bystanders:

- Remain alert and pay attention to surrounding environment.
- Take control of steering wheel when necessary to avoid field hazards, bystanders, equipment, or other obstacles.
- Stop operation if poor visibility conditions impair your ability to operate the machine or identify people or obstacles in machine path.

OUCC002,0004252-19-07JAN15

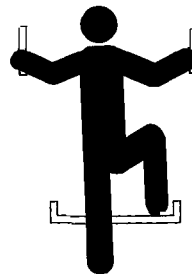
## Read the Guidance Manual

Before attempting to operate the AutoTrac™, fully read the Guidance manual to understand components and procedures required for safe and proper operation.

The Guidance manual is for AutoTrac™ guidance systems applications.

OUCC002,0005605-19-17NOV17

## Cutterhead Access Foot Step

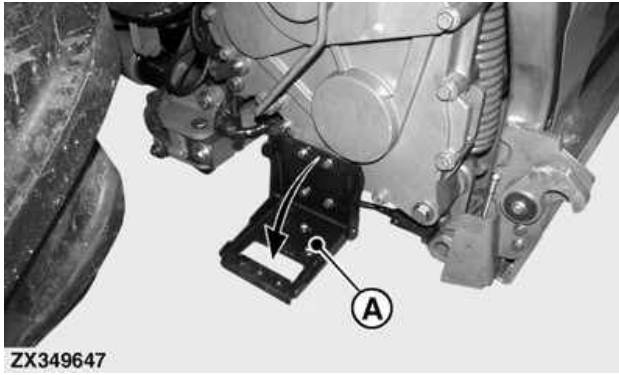


T133468—UN—15APR13

**⚠ CAUTION: Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.**

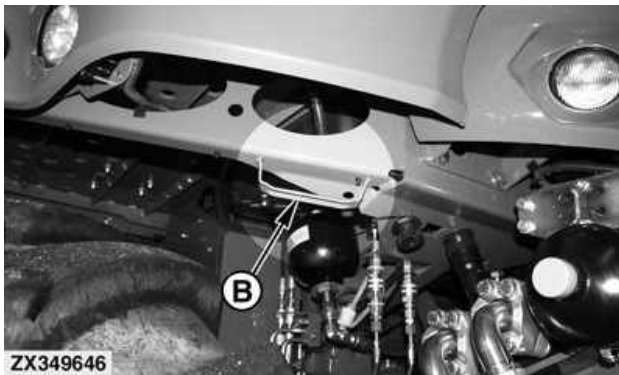
**Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.**





ZX349647

ZX349647—UN—10APR18



ZX349646

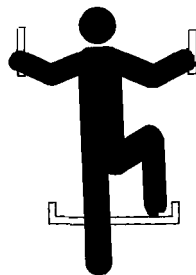
ZX349646—UN—10APR18

A—Foot Step  
B—Handhold

To access the machine components on top of the feed roll housing from the right-hand side, always use the foot step (A) and handhold (B) on cab frame.

OUC002,0005B34-19-09APR18

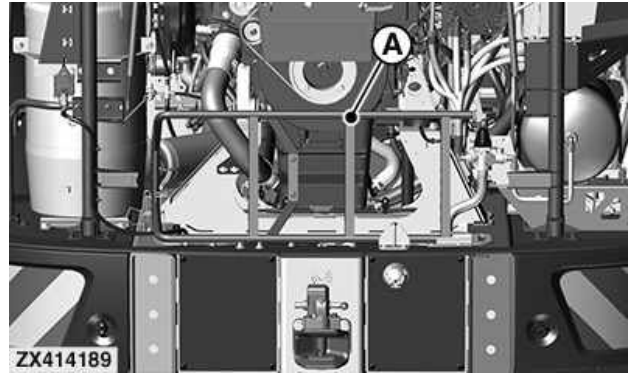
## Engine Compartment Access Ladder



T133468—UN—15APR13

**CAUTION:** Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.

Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.

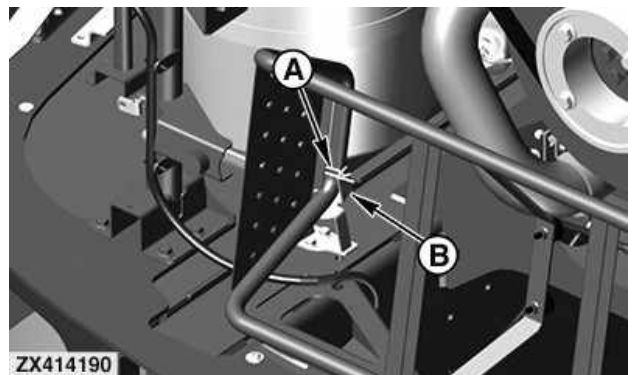


ZX414189

ZX414189—UN—29JUN20

A—Ladder

To access engine compartment, use ladder (A) as follows:

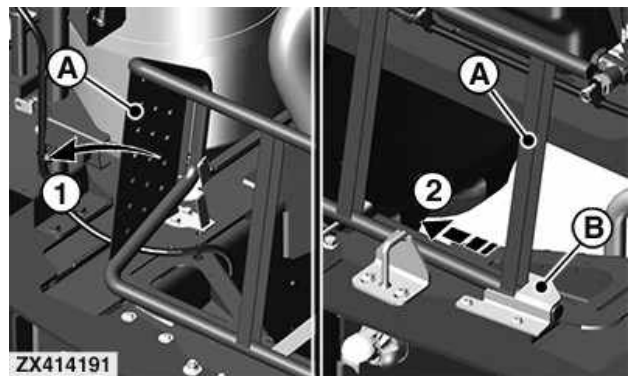


ZX414190

ZX414190—UN—29JUN20

A—Quick-Lock Pin  
B—Holder

1. Remove quick-lock pin (A) from holder (B).

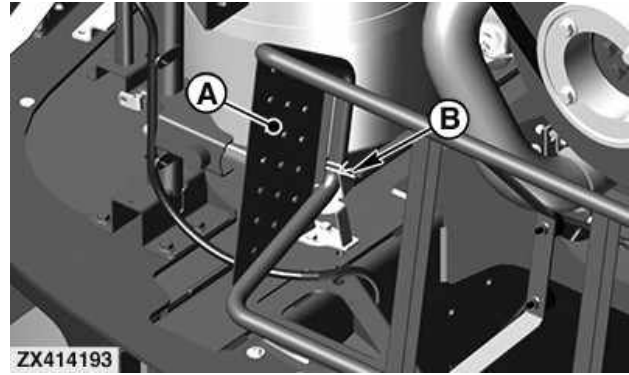
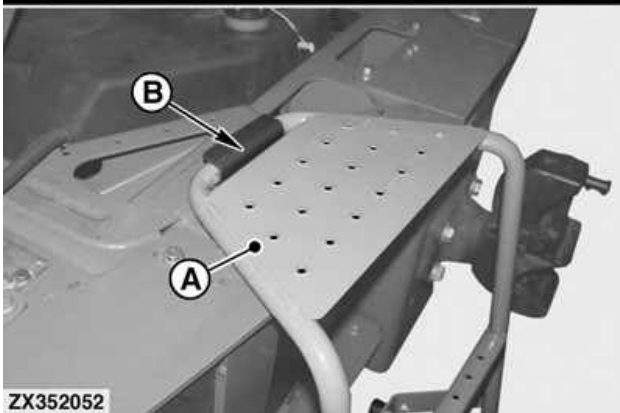
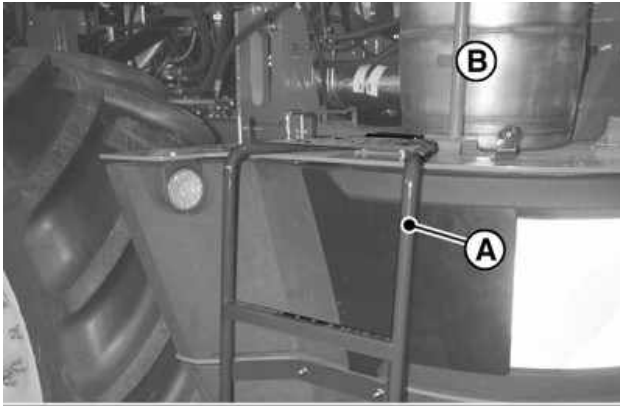


ZX414191

ZX414191—UN—29JUN20

A—Ladder  
B—Bracket

2. Rotate and slide ladder (A) away from bracket (B).



A—Ladder  
B—Quick-Lock Pin

Secure ladder (A) with quick-lock pin (B), as shown.

OUCC002,00065AA-19-16JUN20

### Keep Riders and Children off Machine



TS253—UN—23AUG88

Only allow operator on the machine. Keep riders off the machine except for periods of training or short periods of observation.

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

Children should never be allowed on machine or in the machine cab when engine is running.

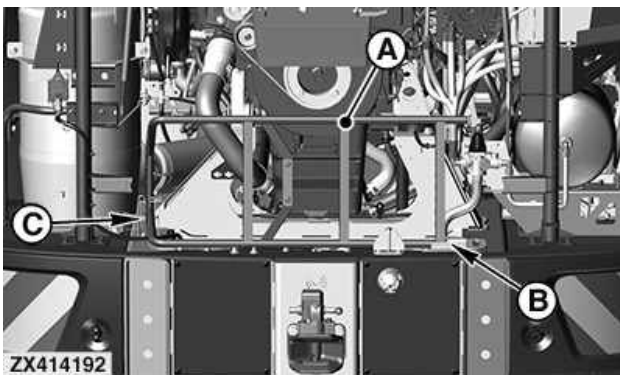
The instructional seat must only be used for instruction or short periods of machine observation, and not for accommodation of children.

OUCC002,0005604-19-02JUL18

A—Ladder  
B—Bracket

3. To access the left, right, or rear side of the engine compartment, insert top of ladder (A) into one of the four brackets (B).

*NOTE: Ladder on left- and rear left-hand side brackets shown.*



A—Ladder  
B—Bracket  
C—Holder

Store the ladder (A) back in bracket (B) and holder (C) in reverse order of the removal process.

## Instructional Seat



TS1730—UN—24MAY13

The instructional seat is intended only for transport of a passenger riding as an observer/instructor in on-road operations (that is, transport from farm to field).

If it is necessary to transport a passenger, the instructional seat is the only means of transport of a passenger condoned by John Deere.

OUCC002,0004223-19-15DEC14

## Road Safety Mode Button



ZX1050673

ZX1050673—UN—20JUN13

**IMPORTANT:** Before driving forage harvester on public roads, make sure that the road safety mode button is in the road mode (see **Road Safety Mode Button in Operating the Controls and Displays** section).

This ensures that all the hydraulic functions with the exception of the steering are switched off.

OUCC002,0003D17-19-23OCT13

## Use Seat Belts



H47137

H47137—UN—25OCT95

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

PP98408,0000059-19-26AUG13

## Drive the Machine



ZX1050674

ZX1050674—UN—21NOV14

Operate machine only when all guards are correctly installed.

Do not drive the machine with the cutterhead lift lock engaged (see **Secure Cutterhead Lift Lock** in **Lubrication and Maintenance** section).

**CAUTION:** The cutterhead lift lock is to be used on a static machine only.

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

Always adapt ground speed to the road or field conditions. Avoid making sharp turns on slopes.

When making turns, always consider the width of the

attachment and the fact that the rear end of the machine swings out. Attachments and ground conditions affect the driving characteristics of the machine.

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 can cause the machine to tip, particularly on hillsides.

OUCC002,0005603-19-17NOV17

### Avoid Backover Accidents



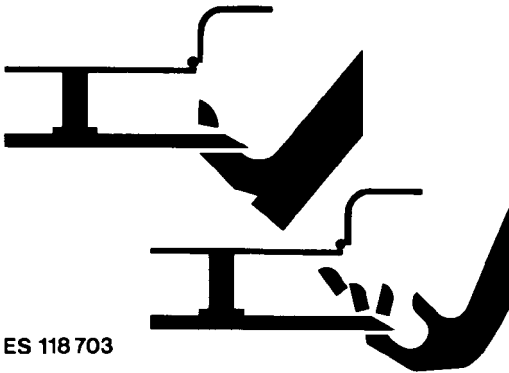
PC10857XW—UN—15APR13

Before moving machine, be sure that all persons are clear of machine path. Turn around and look directly for best visibility. Use a signal person when backing if view is obstructed or when in close quarters.

Do not rely on a camera to determine if personnel or obstacles are behind the machine. The system can be limited by many factors including maintenance practices, environmental conditions, and operating range.

DX,AVOID,BACKOVER,ACCIDENTS-19-30AUG10

### Guards and Shields



ES 118 703

ES118703—UN—21MAR95

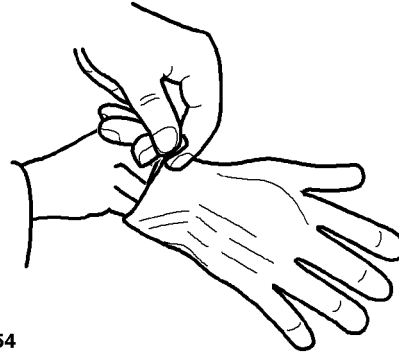
Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly.

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

Keep hands, feet, and clothing away from power-driven parts.

OUCC002,0005606-19-17NOV17

### Handle Knives



CC1026954

CC1026928—UN—26JAN05

Prevent personal injury by wearing safety gloves to handle knives.

OUCC002,0003D1A-19-26JUL13

### Stay Clear of Harvesting Units



ES 118 704

ES118704—UN—21MAR95

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



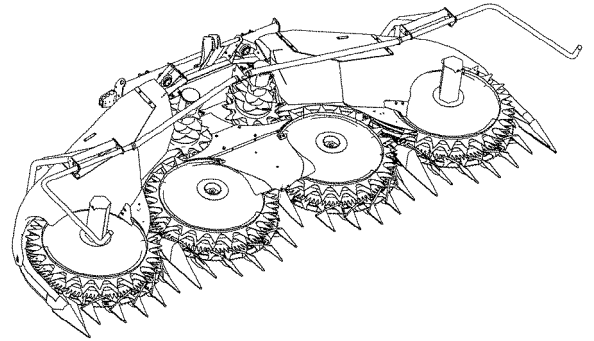
TS254—UN—23AUG88

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

## Avoid Entanglement



KM1001803

KM1001803—UN—06DEC11

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.

OUCC002.0003D1B-19-26JUL13

## Stay Clear of Rotating Drivelines



TS1644—UN—22AUG95

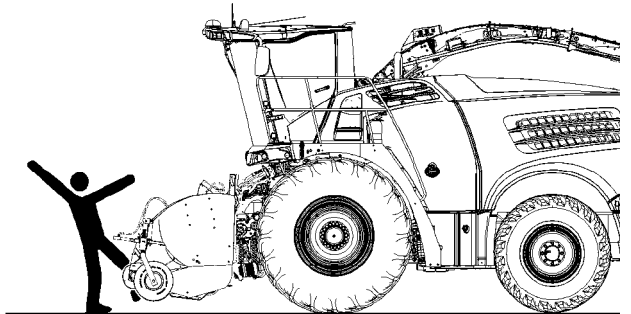
Entanglement in rotating driveline can cause serious injury or death.

Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and make sure all moving parts have stopped before making adjustments, connections, or cleaning out shaft-driven equipment.

OUCC002.00042F0-19-31JAN15

## Transport With Header Installed



ZX1050675

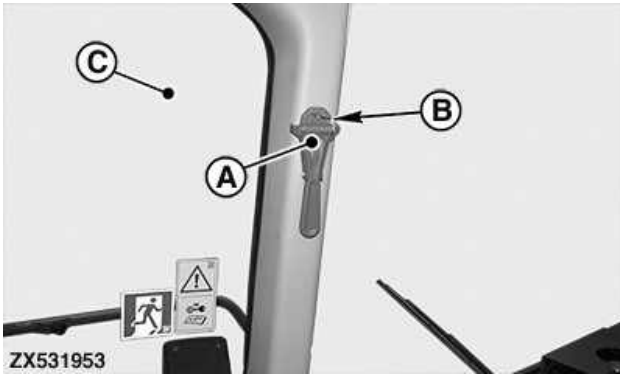
ZX1050675—UN—06DEC13

**IMPORTANT: On machine WITHOUT Advanced Header Control (AHC) option, lock the lateral tilt frame when driving on public roads (see Lateral Tilt Frame Locking Device (Machine without Lateral Tilt Float Option Only) in Field Operation section).**

Before driving machine on public roads, header must be raised. It must not, however, obstruct operator's view of the road. Remove crop dividers (if equipped) and install protective cover.

OUCC002.0003D1C-19-06JUL22

## Emergency Exit



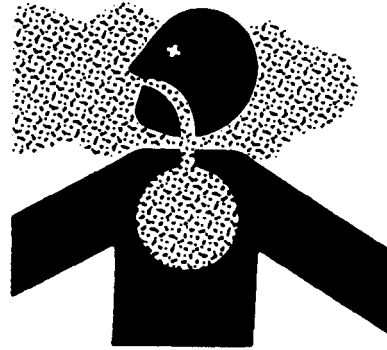
- A—Hammer
- B—Knife
- C—Window

To exit cab in an emergency, cab window glass can be broken with hammer (A) and seat belt can be cut with knife (B) of hammer (A).

*NOTE: Optionally, the right-hand cab window (C) can be opened and used as an emergency exit.*

OUC002,0005607-19-19APR22

## Work In Ventilated Area



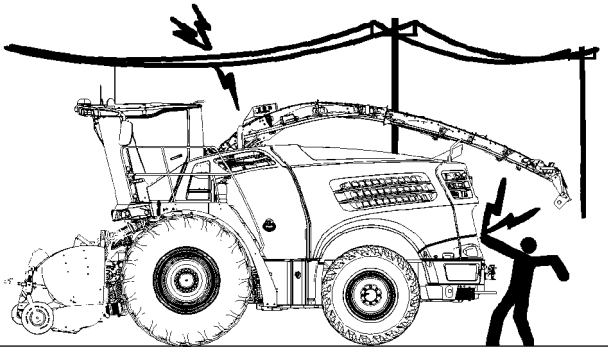
TS220—UN—15APR13

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-19-17FEB99

## Radio Aerial



ZX1050676

ZX1050676—UN—06DEC13

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 (13 ft).

Before transporting machine, bend aerial or remove it.

OUC002,0003AED-19-10SEP12

## Avoid Hot Exhaust



RG17488—UN—21AUG09

Servicing machine or attachments with engine running can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.

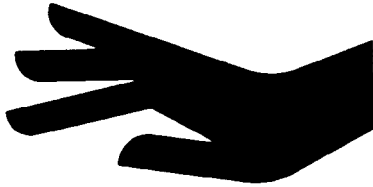
Exhaust parts and streams become very hot during operation. Exhaust gases and components reach temperatures hot enough to burn people, ignite, or melt common materials.

DX,EXHAUST-19-20AUG09

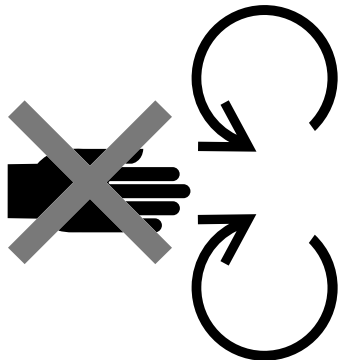
### Clean Exhaust Filter Safely



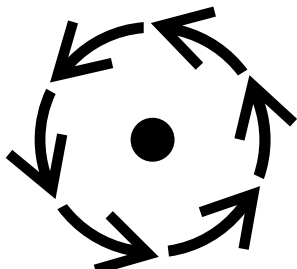
TS227—UN—15APR13



TS271—UN—23AUG88



TS1693—UN—09DEC09



**STOP**

TS1695—UN—07DEC09

During exhaust filter cleaning operations, the engine may run at elevated idle and hot temperatures for an extended period of time. Exhaust gases and exhaust

filter components reach temperatures hot enough to burn people, or ignite or melt common materials.

Keep machine away from people, animals, or structures which may be susceptible to harm or damage from hot exhaust gases or components. Avoid potential fire or explosion hazards from flammable materials and vapors near the exhaust. Keep exhaust outlet away from people and anything that can melt, burn, or explode.

Closely monitor machine and surrounding area for smoldering debris during and after exhaust filter cleaning.

Adding fuel while an engine is running can create a fire or explosion hazard. Always stop engine before refueling machine and clean up any spilled fuel.

Always make sure that engine is stopped while hauling machine on a truck or trailer.

Contact with exhaust components while still hot can result in serious personal injury.

Avoid contact with these components until cooled to safe temperatures.

If service procedure requires engine to be running:

- Only engage power-driven parts required by service procedure
- Ensure that other people are clear of operator station and machine

Keep hands, feet, and clothing away from power-driven parts.

Always disable movement (neutral), set the parking brake or mechanism and disconnect power to attachments or tools before leaving the operator's station.

Shut off engine and remove key (if equipped) before leaving the machine unattended.

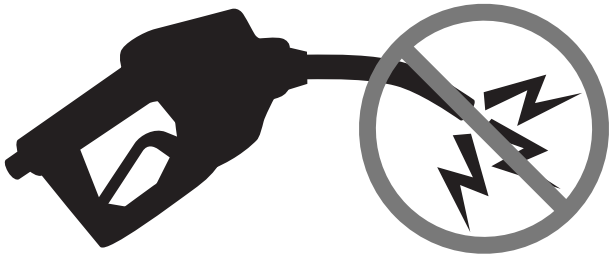
DX,EXHAUST,FILTER-19-12JAN11

### Avoid Static Electricity Risk When Refueling



RG22142—UN—17MAR14

## Practice Safe Maintenance



RG21992—UN—21AUG13

The removal of sulfur and other compounds in Ultra-Low Sulfur Diesel (ULSD) fuel decreases its conductivity and increases its ability to store a static charge.

Refineries may have treated the fuel with a static dissipating additive. However, there are many factors that can reduce the effectiveness of the additive over time.

Static charges can build up in ULSD fuel while it is flowing through fuel delivery systems. Static electricity discharge when combustible vapors are present could result in a fire or explosion.

Therefore, it is important to ensure that the entire system used to refuel your machine (fuel supply tank, transfer pump, transfer hose, nozzle, and others) is properly grounded and bonded. Consult with your fuel or fuel system supplier to ensure that the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

DX,FUEL,STATIC,ELEC-19-12JUL13



TS218—UN—23AUG88

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 away 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.

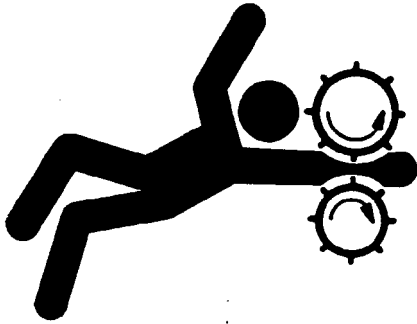
On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.

DX,SERV-19-28FEB17



## Service Machines Safely



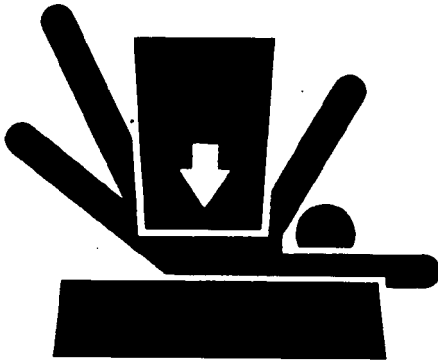
TS228—UN—23AUG88

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

## Support Machine Properly



TS229—UN—23AUG88

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. 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 machine, always follow safety precautions listed in the implement or attachment operator's manual.

DX, LOWER-19-24FEB00

## Service Accumulator Systems Safely



TS281—UN—15APR13

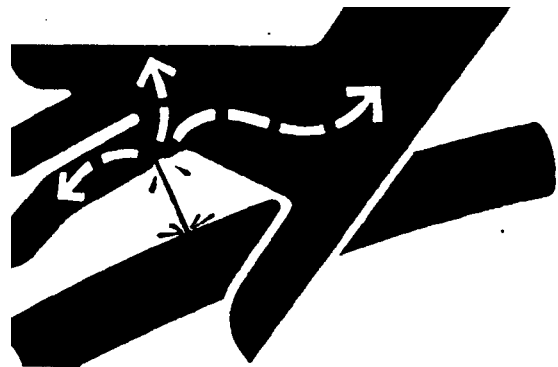
Escaping fluid or gas from pressurized hydraulic accumulator systems can cause serious injury. Extreme heat can cause the accumulator to burst, and pressurized lines can be accidentally cut. Do not weld or use a torch near a pressurized accumulator or pressurized line.

Relieve pressure from the hydraulic system before removing accumulator. Never attempt to relieve hydraulic system or accumulator pressure by loosening a fitting.

Accumulators cannot be repaired.

DX, WW, ACCLA-19-15APR03

## Avoid High-Pressure Fluids



X9811—UN—23AUG88

Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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 in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

DX,FLUID-19-12OCT11

## Prevent Battery Explosions



TS204—UN—15APR13

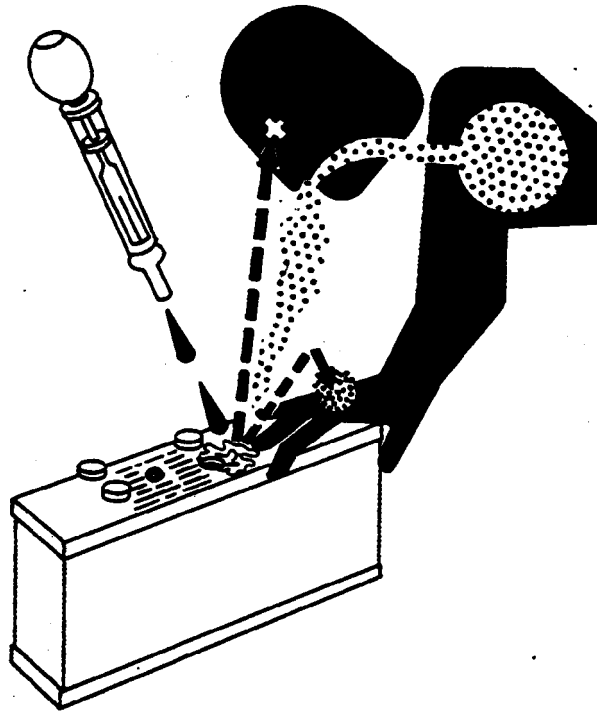
Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

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).

DX,SPARKS-19-03MAR93

## Prevent Acid Burns



TS203—UN—23AUG88

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:

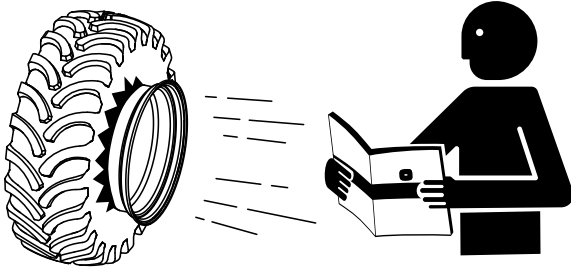
1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 15—30 minutes. Get medical attention immediately.

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

## Follow Tire Recommendations



H111235—UN—13MAY14

Keep your machine in proper working order.

Use only prescribed tire sizes with correct ratings and inflate to the pressure specified in this manual.

Use of other than prescribed tires may decrease stability, affect steering, result in premature tire failure, or cause other durability or safety issues.

DX,TIRE,INFO-19-19MAY14

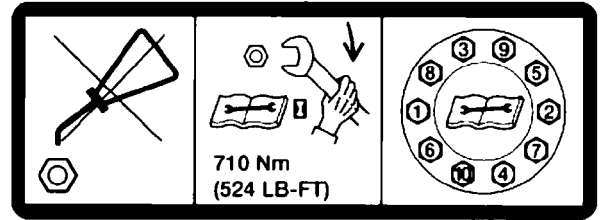
## Retorque Wheel Bolts and Nuts



H96809—UN—09JUN10

Retorque wheel bolts and nuts as specified under **Wheel Bolts and Nuts** in Lubrication and Maintenance section. Failure to retorque 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.

**IMPORTANT:** If no suitable tool is available, contact your John Deere dealer.



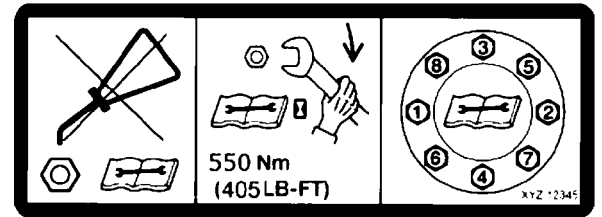
### ZX307139

ZX307139—UN—03JUL18

Front Wheel Bolts, Torque

### Front Axle Wheel Bolts (Dry):

- 710 N·m (524 lb·ft)



### ZX224020

ZX224020—UN—08NOV14

Rear Wheel Nuts, Torque

### Rear Axle Wheel Nuts (Dry):

- 550 N·m (405 lb·ft)

OUCC002,0006AAA-19-05MAR21

## Service Tires Safely



RXA0103438—UN—11JUN09

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.

Wheels and tires are heavy. When handling wheels and tires use a safe lifting device or get an assistant to help lift, install, or remove.

DX,WW,RIMS-19-28FEB17

## Service Cooling System Safely



TS281—UN—15APR13

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

## Speed Limit



ZX220645

ZX220645—UN—06OCT14

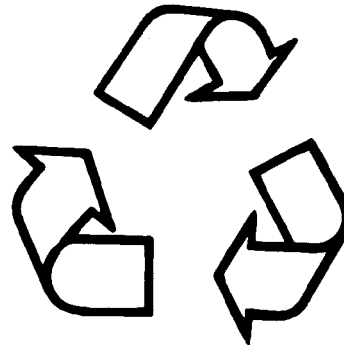
Speed Limit—Left-Hand Side Shown

In accordance with national speed regulations, the machine must have a plate showing its top speed limit.

*NOTE: Depending on country, the location and the speed limit requirements of plate differ.*

OUCC002,0005BFF-19-13MAY18

## Decommissioning — Proper Recycling and Disposal of Fluids and Components



TS1133—UN—15APR13

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid); filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be

prohibited by law and could result in exposure to harmful fumes or ashes.

- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

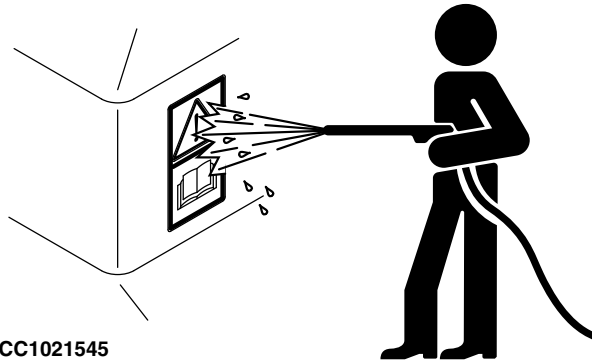
DX,DRAIN-19-01JUN15

Pressurized water can remove or damage safety decals. Do not direct high-pressure jet on safety decals.

Immediately replace missing or damaged safety decals. Replacement safety decals are available from your John Deere dealer.

OUCC002,0003AEA-19-10SEP12

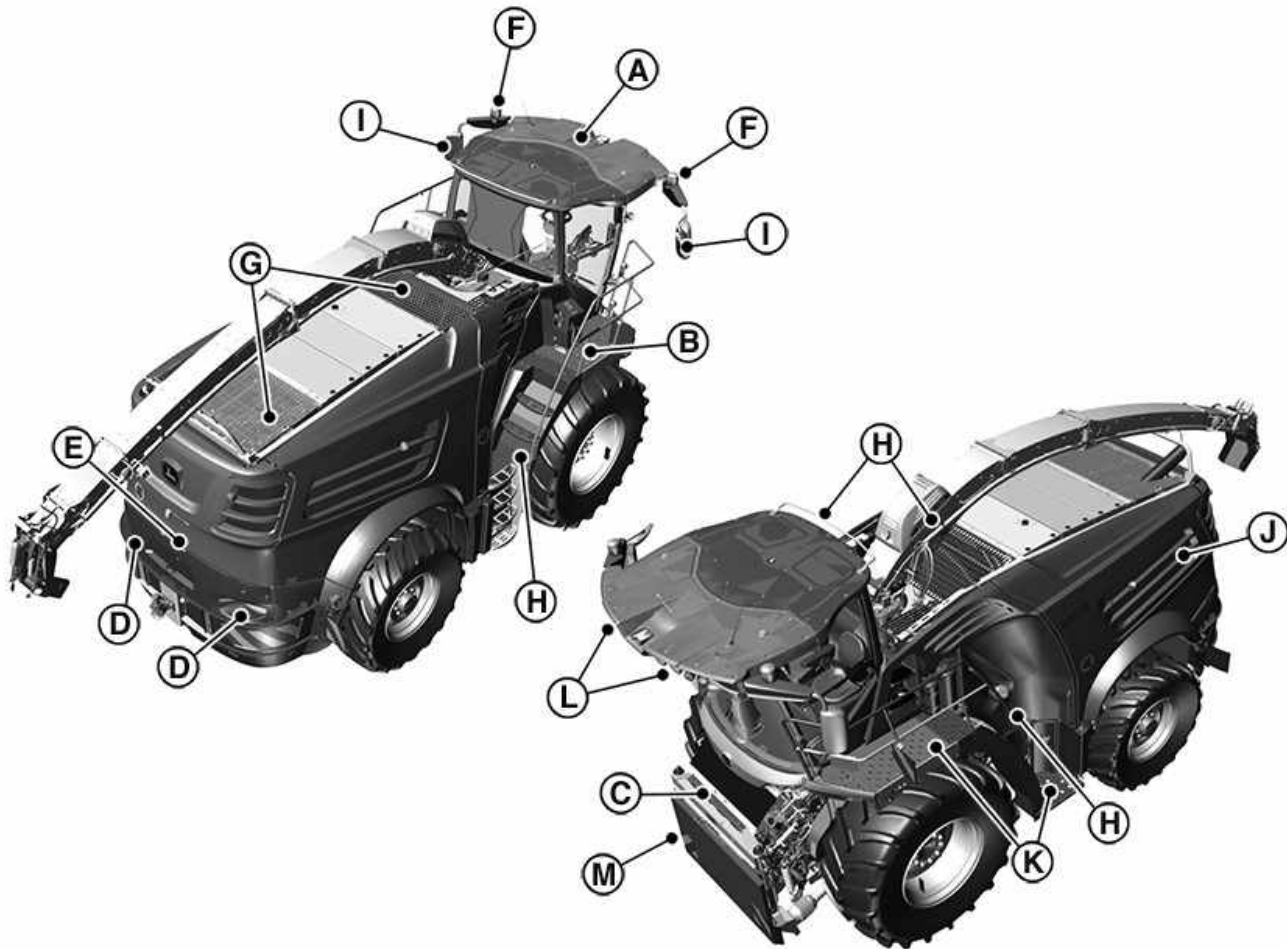
### Avoid High-Pressure Jet on Safety Decals



CC1021545

CC1021545—UN—23APR02

## Machine Safety Features



ZX352055

ZX352055—UN—29JUN20

- A—Cab Safety Features<sup>1</sup>
- B—Slip-Resistant Service Platform with Handrails
- C—Safety Decals
- D—Tail and Hazard Warning Lights
- E—Backup Alarm
- F—Beacon Lights
- G—Slip-Resistant Skid Mats

- H—Handhold Railing
- I—Rearview Mirrors
- J—Shields
- K—Slip-Resistant Steps, Service Platform with Handrails
- L—Headlights
- M—Slip-Resistant Steps, Cutterhead

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 machine when combined with the care and concern of a capable operator.

**IMPORTANT:** This machine is equipped with a safety cutterhead brake, which also functions when cutterhead spins and ignition is switched off. This additional feature is not intended for normal machine usage.

OUC002,0005C00-19-04AUG20

<sup>1</sup> Including: Operator's Presence System, Electronic Engine Start Lockout, Seat Belts, Horn, Emergency Exit Window, Park Brake and Turn Signals.

**Safety Decals**

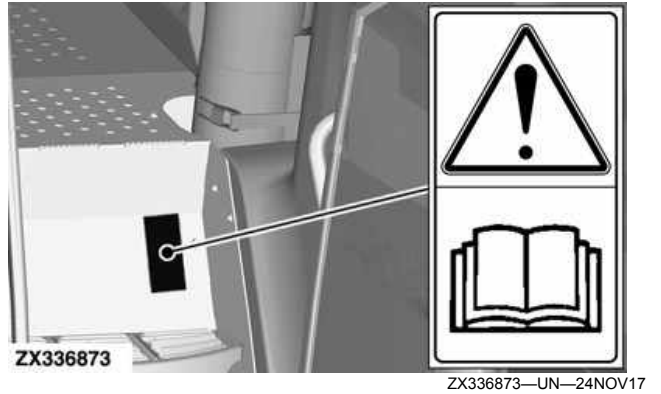
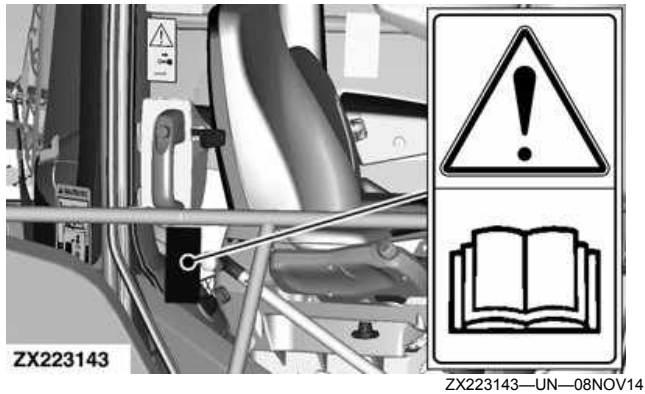
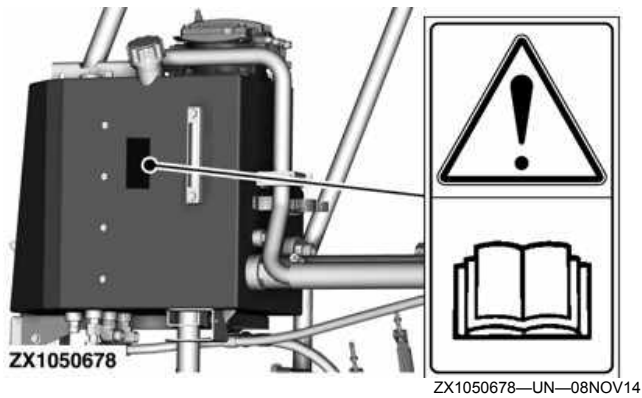


TS231—19—07OCT88

**Pictorial Safety Signs**

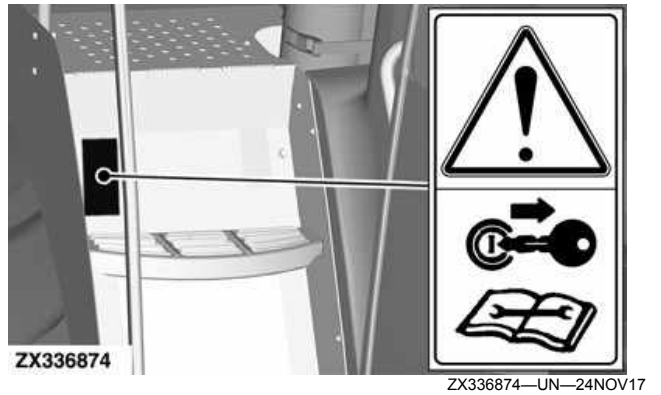
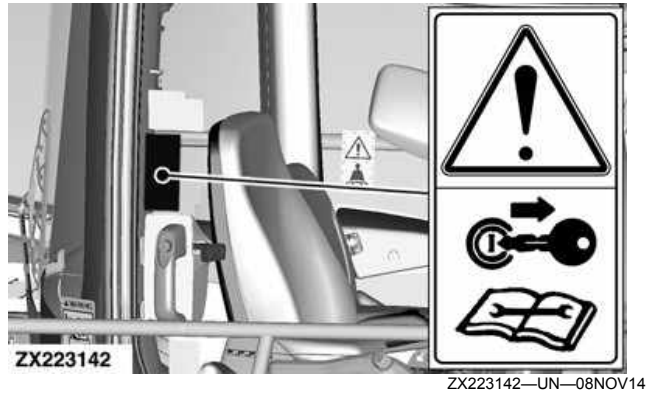
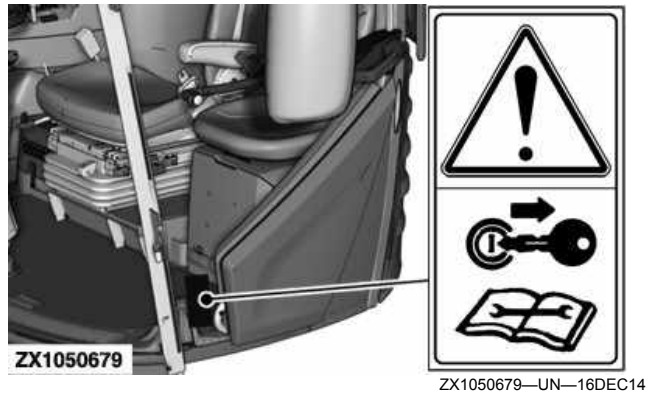
At several important places of this machine, safety signs are affixed, intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information on how to avoid personal injury. These safety signs, their placement on the machine, and a brief explanatory text are shown below.

• **Operator's Manual**



This Operator's Manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

• **Repair and Maintenance**



Before carrying out repair and maintenance work, shut off engine and remove key.

Seat belt may be cut with knife on handle to exit cab in an emergency.

• **Seat Belt**



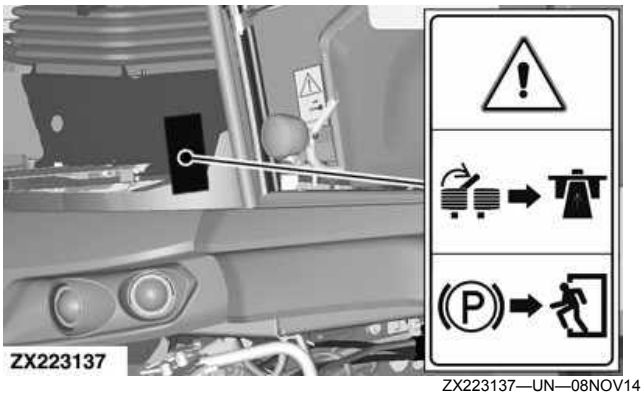
Use the seat belt whenever operating the machine or riding as an observer.

• **Emergency Exit (without Right-Hand Side Door Option)**



Seat belt may be cut and window glass broken with hammer to exit cab in an emergency. Contact your John Deere dealer for window replacement.

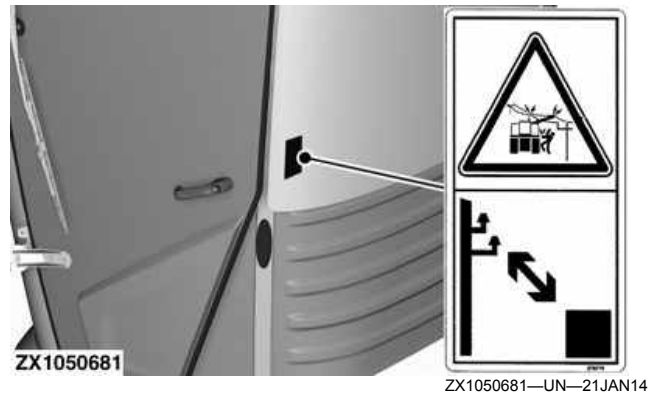
• **Park Brake**



Set park brake before leaving the machine.

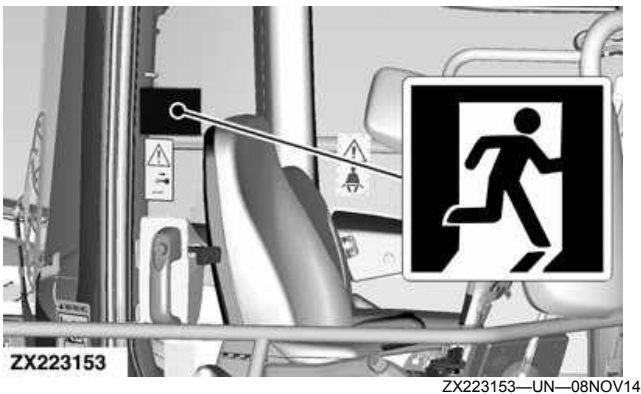
Lock service brake pedals together before driving on roadways.

• **Discharge Spout in Operating Position**



When the discharge spout is in its operating position, check for overhead power lines (depending on local conditions).

• **Emergency Exit (with Right-Hand Side Door Option)**



• **Access Ladder and Platform**



Do not allow riders on access ladder or platform.

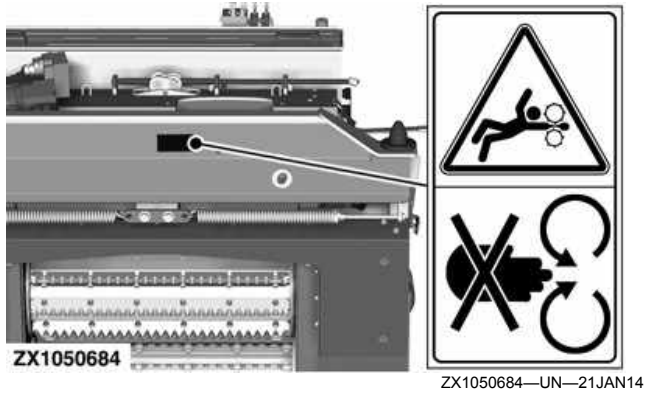


- Platform, Right-Hand Side



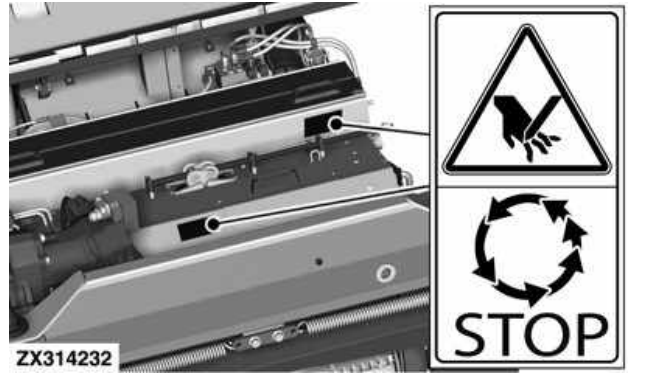
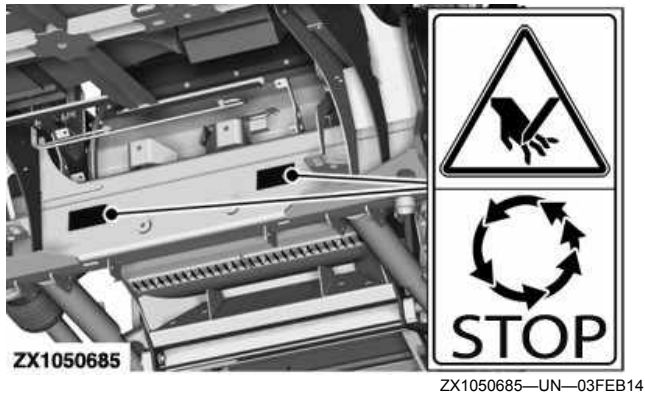
Do not allow riders on service platform.

- Feed Rolls



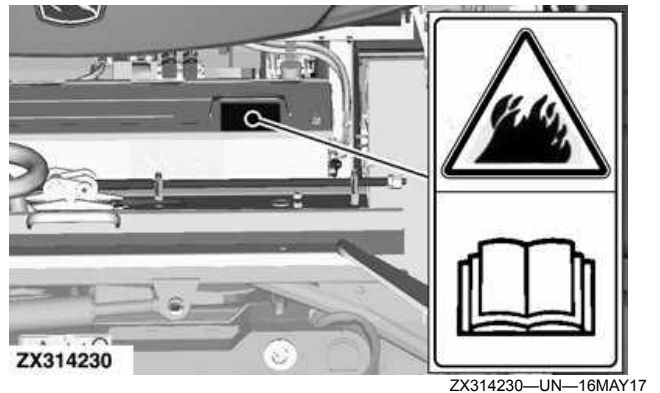
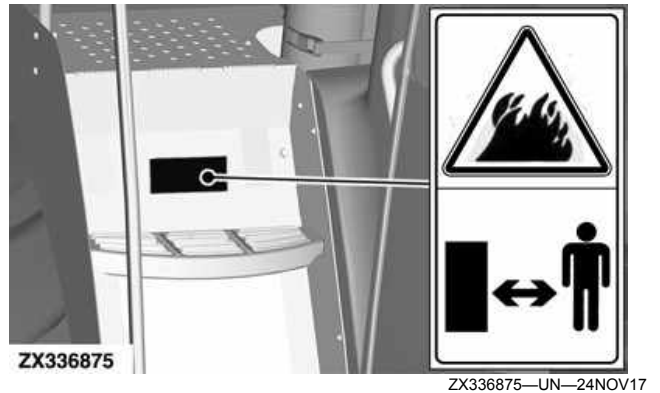
Stay clear of rotating feed rolls to avoid personal injury.

- Cutterhead Assembly and Drive



Do not touch any moving machine parts. Wait until all moving parts have stopped.

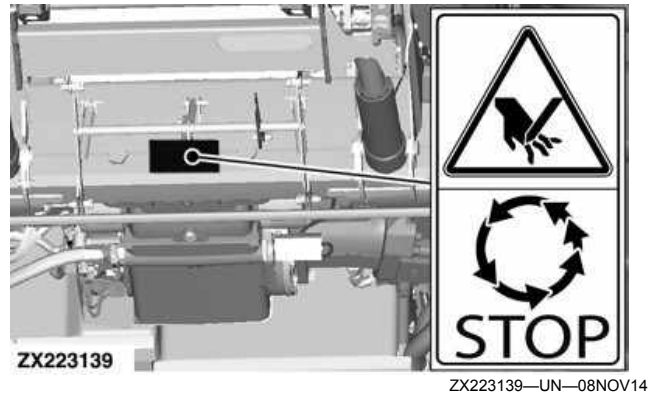
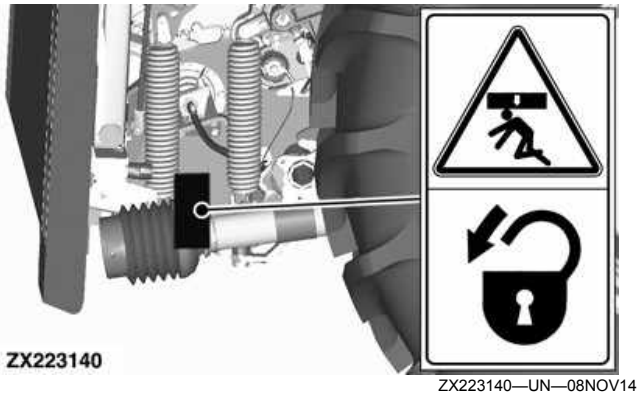
- Avoid Fires



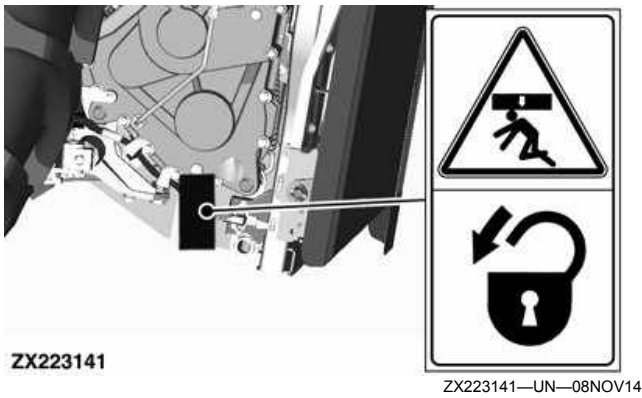
Avoid equipment fires.

The build up of chaff and crop debris around the cutterhead is a fire hazard. Inspect and clean this area frequently and before initiating a sharpening stone process.

- Below Cutterhead

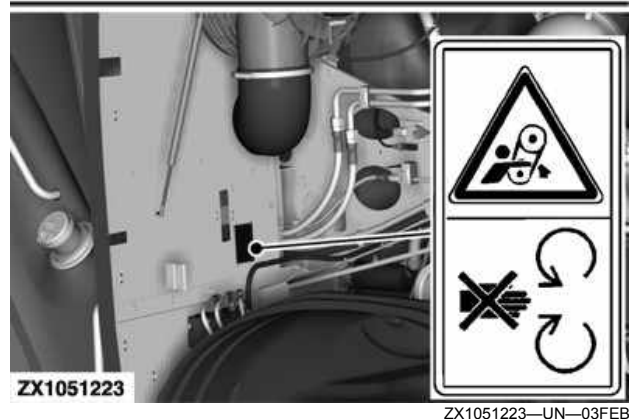
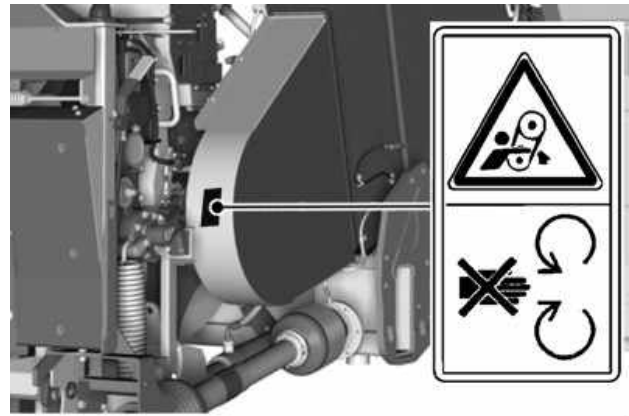


Do not touch any moving machine parts. Wait until all moving parts have stopped.



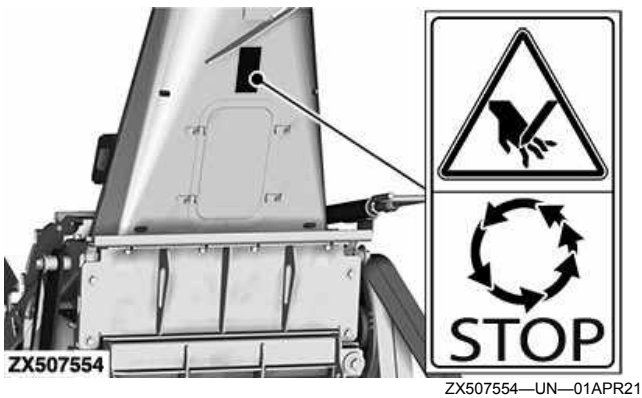
Stay clear of this area unless safety lock is engaged.

• Main Drive



Do not touch any moving machine parts. Wait until all moving parts have stopped.

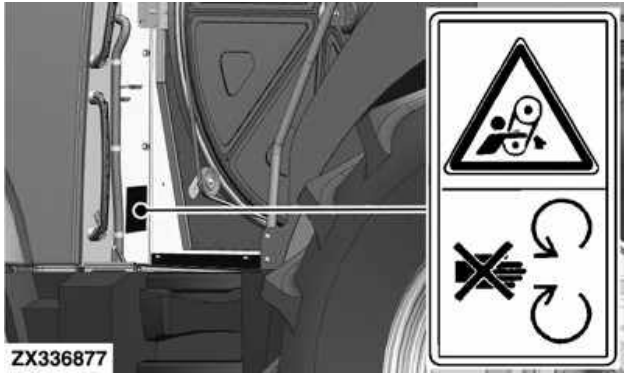
• Spout Transition Channel



Do not touch any moving machine parts. Wait until all moving parts have stopped.

• Cutterhead

• Rotary Suction Screen

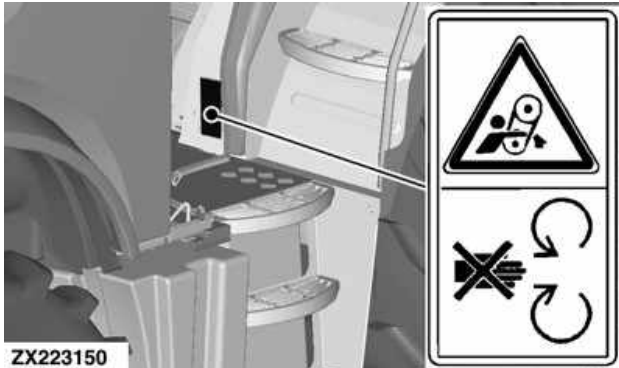


ZX336877

ZX336877—UN—24NOV17

Do not touch any moving machine parts. Wait until all moving parts have stopped.

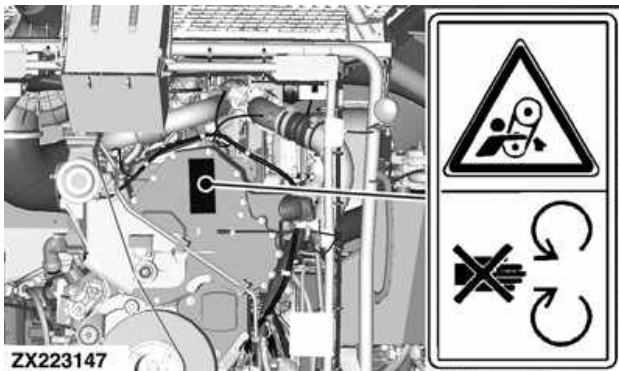
• **Kernel Processor Drive**



ZX223150

ZX223150—UN—08NOV14

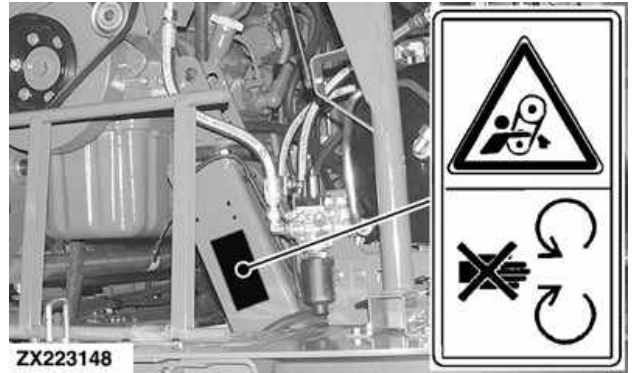
Do not touch any moving machine parts. Wait until all moving parts have stopped.



ZX223147

ZX223147—UN—08NOV14

8300—8600 Air Compressor Drive



ZX223148

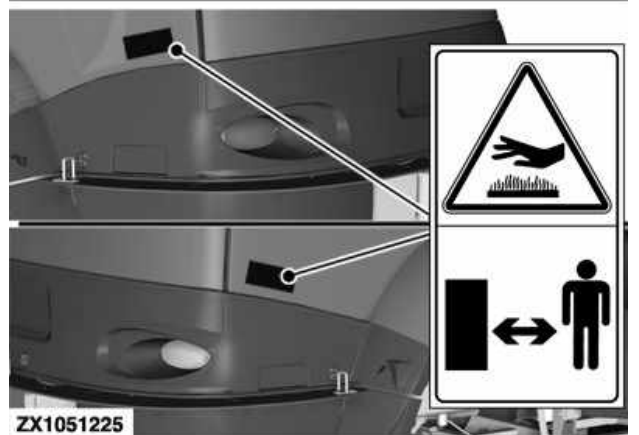
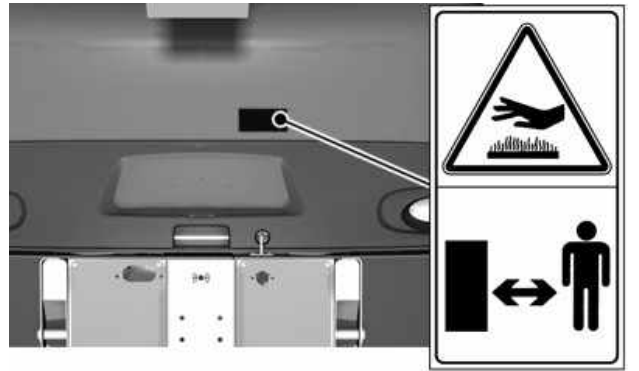
ZX223148—UN—08NOV14

8100 and 8200 Air Compressor Drive

• **Air Compressor Motor Drive**

Do not touch any moving machine parts. Wait until all moving parts have stopped.

• **Exhaust System**

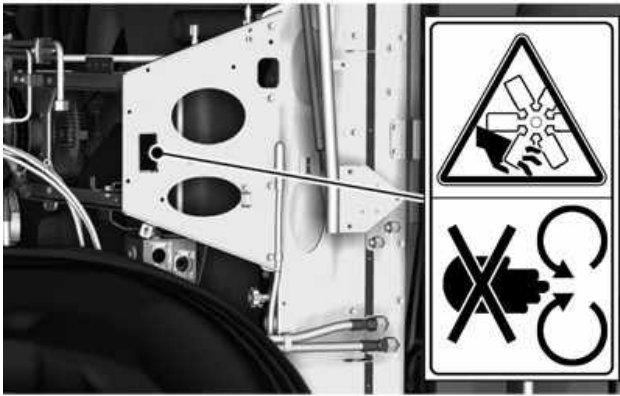


ZX1051225

ZX1051225—UN—21JAN14

Stay clear of hot surfaces.

• **Fan**

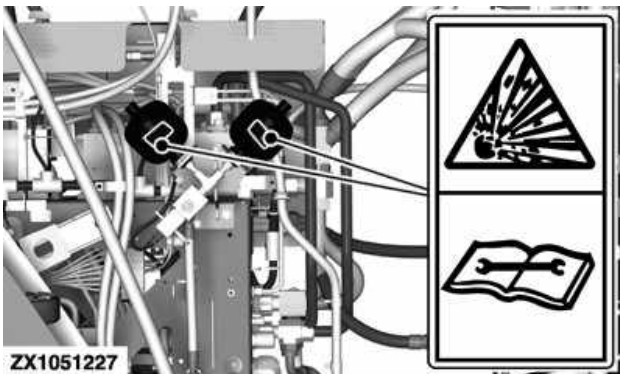


ZX1051226

ZX1051226—UN—21JAN14

Keep your hands away from fan and drive belt when the engine is running.

• **Accumulators - Harvesting Unit Float System**

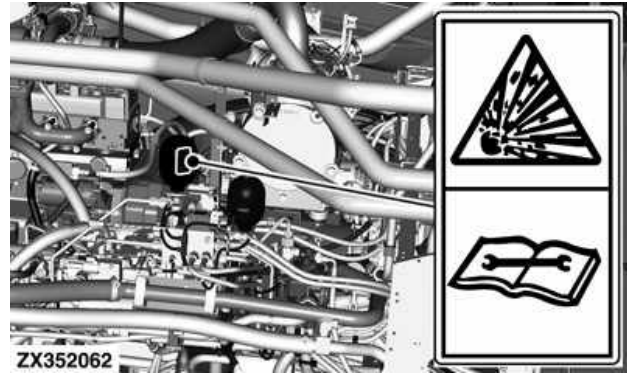


ZX1051227

ZX1051227—UN—03FEB14

Avoid personal injury or death to you or others caused by hydraulic oil and gas under pressure.

• **Accumulator - Feeding System Quickstop**

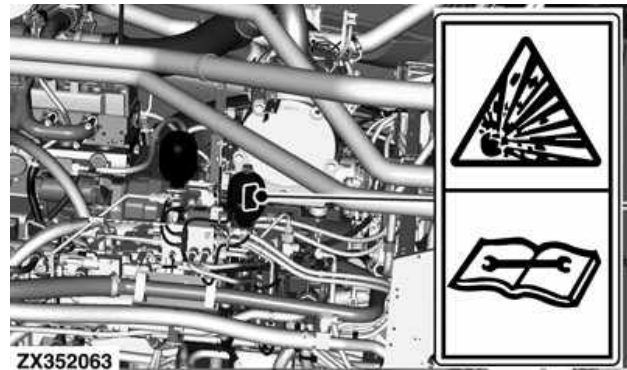


ZX352062

ZX352062—UN—18MAY18

Avoid personal injury or death to you or others caused by hydraulic oil and gas under pressure.

• **Accumulator - Charge Pressure**

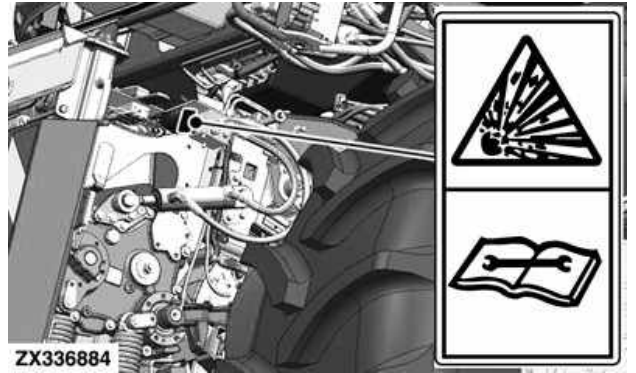
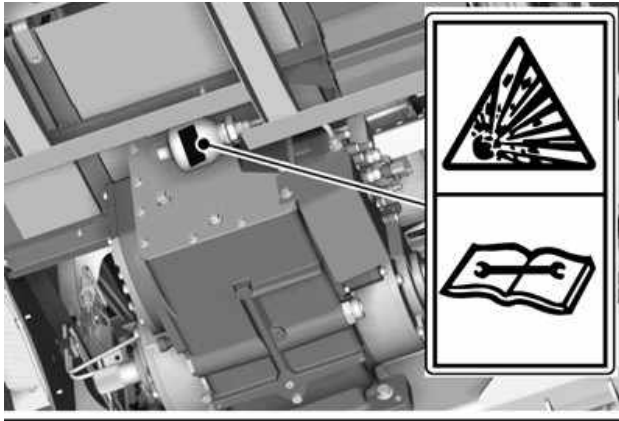


ZX352063

ZX352063—UN—18MAY18

Avoid personal injury or death to you or others caused by hydraulic oil and gas under pressure.

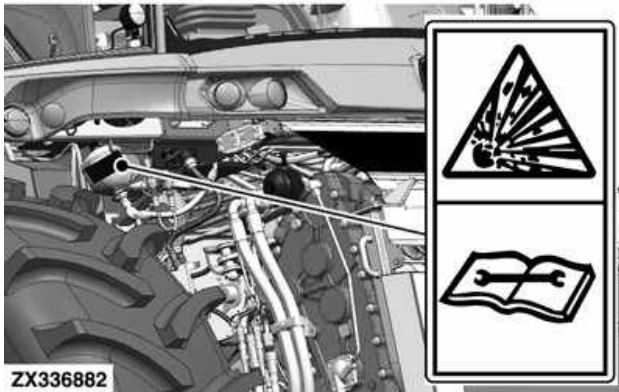
• **Accumulator - ProDrive™ Transmission**



ZX336884

ZX336884—UN—24NOV17

Avoid personal injury or death to you or others caused by hydraulic oil and gas under pressure.

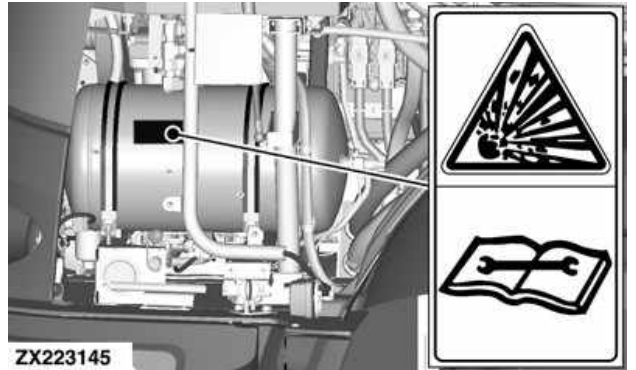


ZX336882

ZX336882—UN—24NOV17

Avoid personal injury or death to you or others caused by hydraulic oil and gas under pressure.

• **Accumulator - Air Compressor**

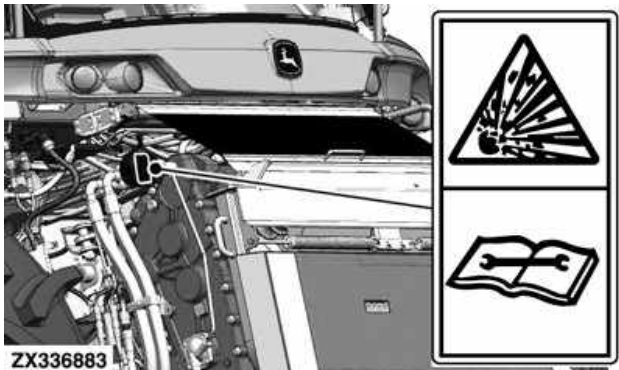


ZX223145

ZX223145—UN—08NOV14

Avoid personal injury or death to you or others caused by air under pressure.

• **Accumulator - Length-of-Cut Transmission**

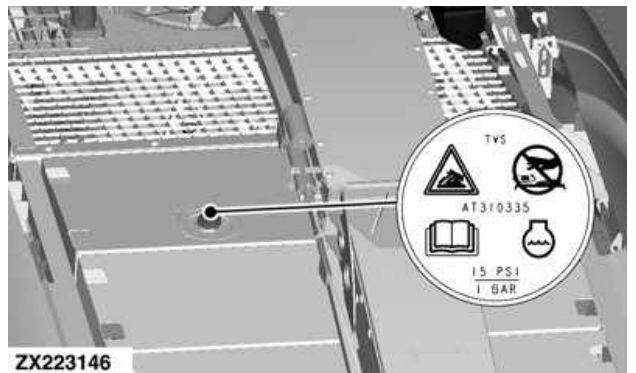


ZX336883

ZX336883—UN—24NOV17

Avoid personal injury or death to you or others caused by hydraulic oil and gas under pressure.

• **Cooling System**



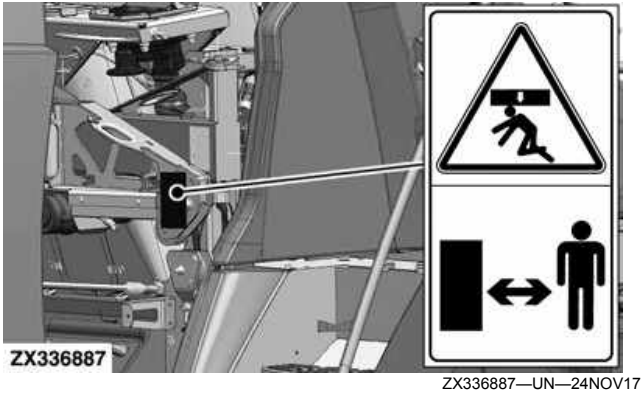
ZX223146

ZX223146—UN—08NOV14

Avoid being scalded when opening expansion tank cap. Open cap 1.5 turns to relieve pressure. Never open when engine is hot.

• **Accumulator - Feed Roll Dampening**

• **Kernel Processor Winch**



Stay clear of load carried by winch.

## Quick Response (QR) Code



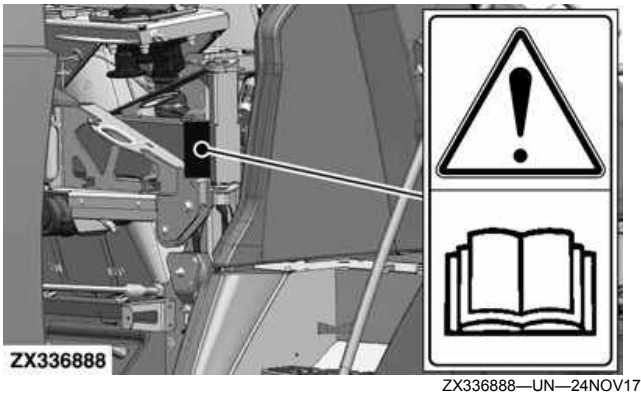
ZX513237

ZX513237—19—05JUL21

At the top of the Cleaning Guide is a Quick Response (QR) code that links to a short instructional Cleaning Guide video. Access content from the QR code by downloading a QR scanner application to your smart phone. Open the App and aim your phone's camera at the code to connect to the media.

OUC002,0006EBD-19-04JUL21

### • Kernel Processor Winch



This Operator's Manual contains all important information necessary for safe kernel processor winch operation. Carefully observe all safety rules to avoid accidents.

## Remove Accumulated Crop Debris



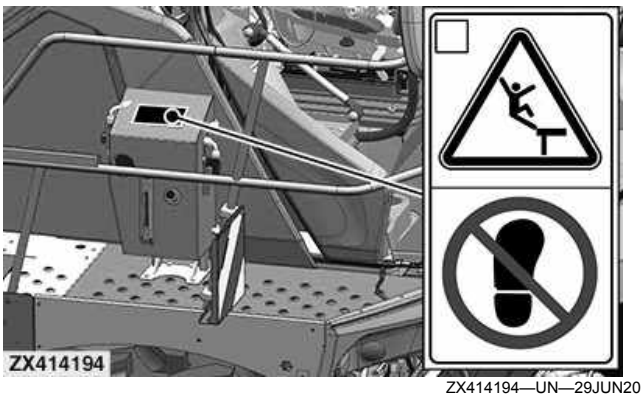
TS227—UN—15APR13

The buildup 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 as necessary. Before performing any inspection or service, shut off the engine, set the park brake, and remove the key.

The areas that have to be cleaned before initiating the knife sharpening process are the feed roll area, the knife sharpening device area, and the chute area.

OUC002,00042F1-19-04AUG20

### • XStream KP™ Lubrication System



Avoid serious injury from falling. Do not stand or walk on the lubrication system reservoir of the XStream KP™ kernel processor.

OUC002,0006E5C-19-24MAY22

## Cleaning and Inspection - Instructions

The machine must be inspected periodically throughout the harvest day. Buildup of crop material and other debris must be removed to ensure proper machine function and to reduce the risk of fire.

This section shows areas of the machine that require periodic cleaning, inspection, and adjustment.

Frequency of inspection varies depending on a number of factors including operating conditions, weather, crop conditions, machine settings, and operating speeds.

Clean the machine of accumulated crop debris, excess grease, and leaking or spilled hydraulic fluid and diesel fuel.

The parts of the machine that are most affected by buildup of crop debris are:

- The feeding system
- The cutterhead assembly
- The transition chute area
- The engine compartment
- The air filters
- The radiator

Using compressed air can make the job of keeping these areas clean much easier.

Regular and thorough cleaning of the machine combined with other routine maintenance procedures listed in the Operator's Manual greatly reduces the risk of fire, the chance of downtime, and improves machine performance. Always follow all safety procedures posted on the machine and in the Operator's Manual.

**Feeding System:**



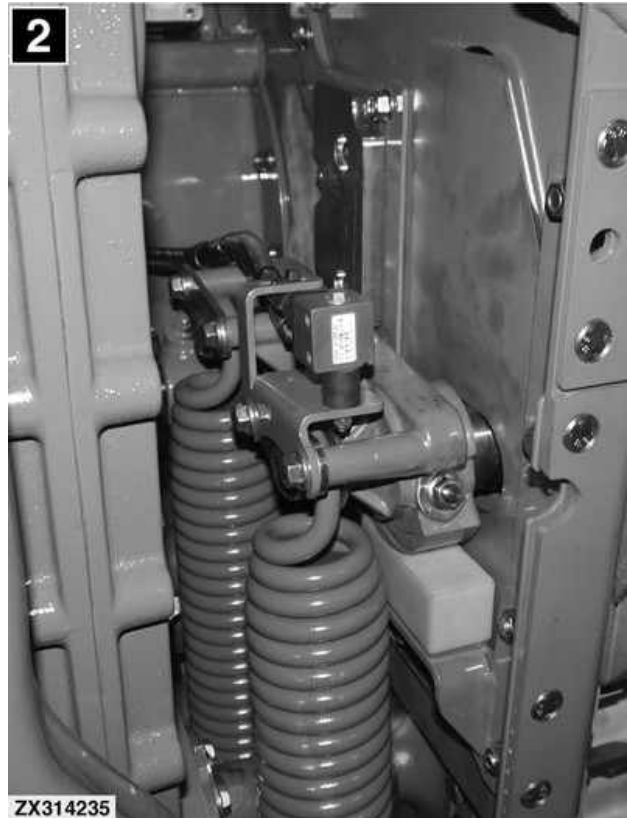
ZX314234

ZX314234—UN—16MAY17

The entire area at the front of the machine including the feeding system must be cleaned periodically.

In particular, the areas shown must be kept clean:

1. Around the feed roll tensioning springs and header driveline on the left-hand side.

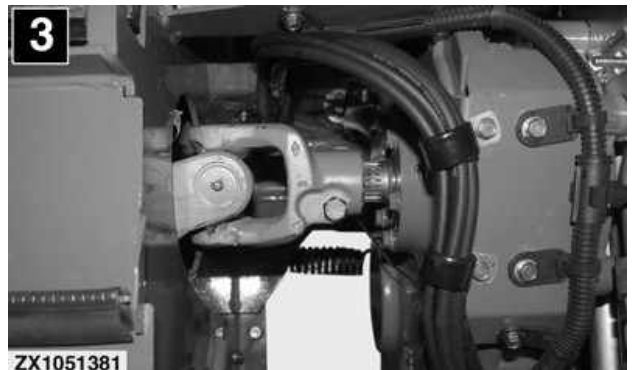


ZX314235

ZX314235—UN—16MAY17

2. Around the feed roll tensioning springs on the right-hand side.

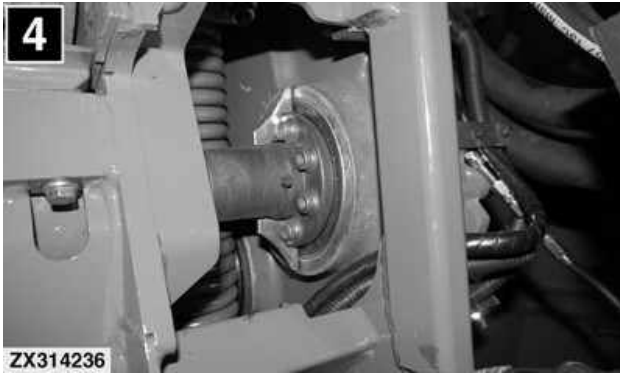
*NOTE: Shield removed for illustration purpose only.*



ZX1051381

ZX1051381—UN—20JUN13

3. Around the upper feed roll drive shaft on the right-hand side.



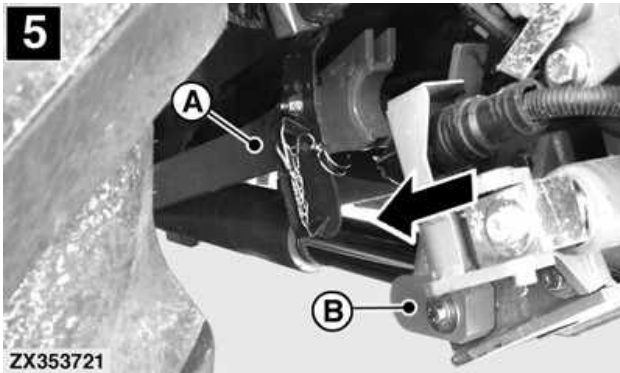
ZX314236  
ZX314236—UN—16MAY17  
4. Around the lower feed roll drive hub on the right-hand side.

be checked periodically and the entire area must be kept clean.

If material buildup or wrapping is detected in this area, stripper clearance must be readjusted as follows.

Stripper (A) is correctly adjusted when the minimum gap between smooth roll (B) and the stripper is 0.2 mm (0.008 in) and the smooth roll still turns freely. To adjust the stripper, loosen all screws (C) and adjust the stripper evenly.

*NOTE: To ensure a more even flow of material, the smooth roll, stripper, and the area around the stationary knife must be cleaned. Replace the stripper whenever it becomes excessively worn.*



ZX353721  
ZX353721—UN—23JUL18  
A—Locking Beam  
B—Stop Block

5. Around the cutterhead lift lock on the right-hand side.

**⚠ CAUTION:** To ensure that cutterhead lift lock can be securely engaged, always keep area around the locking beam (A) and stop block (B) clear of debris.

**Area around the Knife Sharpening Device:**

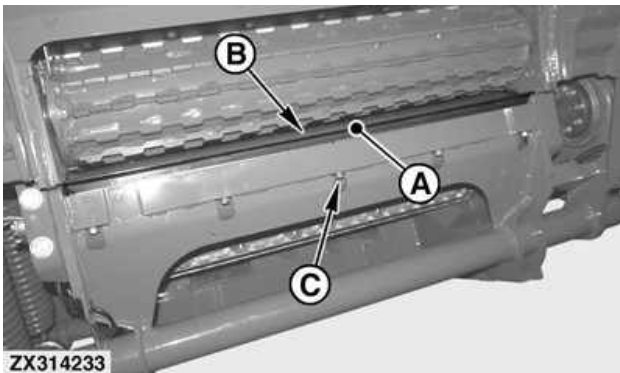


ZX414200  
ZX414200—UN—29JUN20

Crop debris can build up in the area around the knife sharpening device, on cutterhead assembly. These crop debris may be ignited by sparks caused during knife sharpening. This area must be kept clean especially before every knife sharpening procedure. Clean also the following areas, in particular:

- Behind the cutterhead.

**Smooth Roll and Stripper:**



ZX314233  
ZX314233—UN—16MAY17  
A—Stripper  
B—Smooth Roll  
C—Screw

In order to prevent material from wrapping around the smooth roll, the stripper must be adjusted accurately. The gap between the stripper and the smooth roll must



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