

6140R, 6150R, 6170R, 6190R and 6210R Tractors



OPERATOR'S MANUAL
6140R, 6150R, 6170R,
6190R and 6210R Tractors
OMETN78900 ISSUE F4 (ENGLISCH)



John Deere GmbH & Co. KG John Deere
Werk Mannheim
(This manual replaces OMETN78900 K3)
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Introduction

Foreword

READ THIS OPERATOR'S MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or machine 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 OPERATOR'S 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. units of measure. Use only correct replacement parts and mounting hardware. Metric and inch mounting hardware may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing the direction of forward travel.

ENTER THE PRODUCT IDENTIFICATION NUMBERS (PIN) in the Specifications or Identification Numbers sections, at the corresponding point. Please note down all numbers exactly. In the event of a theft, they can be important for the police investigations. Your John Deere dealer also needs these numbers when you order spare parts. It is advisable to note down these numbers at a secure place away from the machine.

CHANGES THAT RESULT IN THE INJECTED FUEL QUANTITY BEING OUTSIDE OF THE FACTORY SPECIFICATIONS or other power boosts void the warranty for this machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed an inspection. After the first 100 operating hours, schedule an after-sale inspection with your dealer to ensure best performance.

THIS TRACTOR WAS BUILT ONLY for normal agricultural applications or similar tasks ("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. Intended use also includes compliance with all operating, maintenance and servicing conditions specified by the manufacturer.

THIS tractor MAY ONLY be used, serviced and repaired by persons who are familiar with it and who have been instructed in the corresponding safety provisions (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 TRACTOR 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 used John Deere products at 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 to provide you with excellent 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 for purchasing John Deere parts.

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Contents

	Page		Page
Identification View			
Identification View.....	00-1	Transport Tractor Safely	05-19
Trademarks	00-2	Service Cooling System Safely	05-19
Safety			
Recognize Safety Information	05-1	Service Accumulator Systems Safely.....	05-20
Understand Signal Words.....	05-1	Service Tires Safely.....	05-20
Follow Safety Instructions.....	05-1	Service Front-Wheel Drive Tractor Safely	05-20
Prepare for Emergencies.....	05-2	Tightening Wheel Retaining Bolts/Nuts	05-21
Wear Protective Clothing.....	05-2	Avoid High-Pressure Fluids	05-21
Protect Against Noise	05-2	Do Not Open High-Pressure Fuel System.....	05-21
Handle Fuel Safely—Avoid Fires.....	05-3	Store Attachments Safely	05-22
Handle Starting Fluid Safely	05-3	Dispose of Waste Properly	05-22
Fire Prevention	05-3	Safety Decals	
In Case of Fire	05-4	Pictorial Safety Signs.....	10-1
Avoid Static Electricity Risk When Refueling.....	05-4	Operator's Manual	10-1
Keep ROPS Installed Properly	05-5	Hitch Remote Control	10-1
Use Foldable ROPS and Seat Belt Properly	05-5	Cab Suspension Accumulators	10-2
Stay Clear of Rotating Drivelines.....	05-6	Front-Axle Suspension Accumulators	10-2
Use Steps and Handholds Correctly	05-6	Front-Axle Suspension Accumulators	10-2
Read Operator Manuals for ISOBUS		Brake System Accumulator	10-3
Implements.....	05-6	Pick-Up Hitch.....	10-3
Use Seat Belt Properly	05-7	Never Carry Riders (China Only).....	10-3
Operating the Tractor Safely	05-8	PTOs and Rotating Components of	
Avoid Backover Accidents	05-9	Implements (China Only)	10-4
Limited Use in Forestry Operation.....	05-9	Engine Cooling System (China Only).....	10-4
Operating the Loader Tractor Safely	05-9	Controls and Instruments	
Keep Riders Off Machine	05-10	Vehicle Controls with PowrQuad™	
Instructional Seat.....	05-10	PLUS and AutoQuad™ PLUS	
Use Safety Lights and Devices.....	05-10	Transmissions	15-1
Transport Towed Equipment at Safe Speeds ...	05-11	Vehicle Controls with Au-	
Use Caution On Slopes and Uneven Terrain....	05-11	toPowr™/IVT™ Transmission	15-2
Freeing a Mired Machine.....	05-12	Vehicle Controls with DirectDrive Transmission ..	15-3
Avoid Contact with Agricultural Chemicals	05-12	Immobilizer	15-4
Handle Agricultural Chemicals Safely	05-13	Emergency Brake System	15-4
Handling Batteries Safely	05-14	PTO Controls.....	15-5
Avoid Heating Near Pressurized Fluid Lines....	05-14	Creeper Control	15-5
Remove Paint Before Welding or Heating.....	05-15	Attachment Controls.....	15-6
Handle Electronic Components and		Heater and Air-Conditioning Controls	
Brackets Safely	05-15	(Tractors without ClimaTrak System)	15-6
Practice Safe Maintenance.....	05-16	Heater and Air-Conditioning Controls	
Avoid Hot Exhaust.....	05-16	(Tractors with ClimaTrak System)	15-7
Clean Exhaust Filter Safely	05-17	Indicator Lights and Displays.....	15-8
Work In Ventilated Area	05-18	Software Update.....	15-12
Support Machine Properly	05-18	CommandCenter™ and Additional Instruments	
Prevent Machine Runaway.....	05-18	CommandCenter™ - Controls and Navigating...	16-1
Park Machine Safely.....	05-19		

Continued on next page

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

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Page	Page		
CommandCenter™ - Activating System.....	16-2	CommandCenter™ - GreenStar™, ISOBUS-Compliant Auxiliary Controls	16-36
CommandCenter™ - Menu	16-2	GreenStar™ Display (Option).....	16-37
CommandCenter™ - Hotkeys	16-3	AutoTrac (Optional)	16-38
CommandCenter™ - Page Structure	16-3	Operating the Radio Through the CommandCenter™	
CommandCenter™ - Set Up Monitor Boxes	16-4	Radio Source Select on the CommandCenter™	18-1
CommandCenter™ - Softkeys.....	16-5	MW/FM/LW Home Page on the CommandCenter™	18-2
CommandCenter Input Fields.....	16-6	Radio with CD/MP3/USB/AUX Home Pages on the CommandCenter™	18-3
CommandCenter™ - Navigating to Specific Page	16-7	Radio Settings on the CommandCenter	18-4
CommandCenter™ - Check the TouchScreen ...	16-8	Operating the Phone Through the CommandCenter™	18-5
CommandCenter™ - Touchscreen Keys	16-9	Phone Book on the CommandCenter.....	18-6
CommandCenter™ - Access Manager.....	16-9	Phone Directories on the CommandCenter.....	18-7
CommandCenter™ - Selecting Highlight Color.....	16-12	Phone Settings on the CommandCenter™	18-8
CommandCenter™ - Country, Language and Units	16-13	Lights	
CommandCenter™ - Setting System Time	16-14	Lights	20-1
CommandCenter™ - Viewing Basic Diagnostic Readings	16-15	Xenon (HID) Worklights	20-1
CommandCenter™ - Message Center	16-15	Switch for Turn Signal Lights and Horn	20-1
CommandCenter™ - Displaying Engine Operating Hours.....	16-16	Light Switch	20-2
CommandCenter™ - Configuring Home Page	16-17	Additional Headlights.....	20-2
CommandCenter™ - Set Up Background Lighting of Display.....	16-19	Lighting System - Worklights	20-3
CommandCenter™ - Setting Service Interval ..	16-20	Lighting System - Egress Light.....	20-4
CommandCenter™ - Setting Distance Counter	16-21	Operate the Hazard Warning Light Switch	20-4
CommandCenter™ - Setting Performance Monitor Access	16-22	Beacon Light (Option).....	20-5
CommandCenter™ - Using Performance Monitor.....	16-23	Seven-Terminal Trailer Socket	20-5
CommandCenter™ - Set Implement Width and Control Modes.....	16-24	Cab	
CommandCenter™ - Setting Alarm Volume.....	16-25	Avoid Contact with Agricultural Chemicals	25-1
CommandCenter™ - Accessing Video Camera Capability.....	16-26	Clean Vehicle of Hazardous Pesticides.....	25-1
CommandCenter™ - Software Version	16-28	Emergency Exits.....	25-2
CommandCenter™ - Service ADVISOR Remote (SAR), If Equipped	16-28	Roll-Over Protective Structure.....	25-2
CommandCenter™ - Calibrating John Deere Dual-Beam Radar.....	16-29	Seat Belt	25-3
CommandCenter™ - Match Travel Speed to Radar Sensor Speed	16-30	Air Comfort Seat — MSG95GL	25-4
CommandCenter™ - Calibrate Other-Make Radars Manually	16-31	Air Comfort Seats — MSG95AL and MSG95AL-DDS.....	25-5
CommandCenter™ - GreenStar™ Functions...	16-32	Passenger Seat.....	25-6
CommandCenter™ - Accessing GreenStar™ Main Page.....	16-33	Wiper and Washer System.....	25-7
CommandCenter™ - GreenStar™, Read Operator Manuals for ISOBUS Implements.....	16-33	Fan and Air Louvers (Tractors without ClimaTrak System).....	25-8
CommandCenter™ - GreenStar™, Connecting ISOBUS Implements and Multiple ISOBUS Displays.....	16-34	Heater (Tractors without ClimaTrak System).....	25-8
		Air-Conditioning System (Tractors without ClimaTrak System)	25-9
		Tips on Using Air-Conditioning	25-9
		Using ClimaTrak (Automatic Temperature Control)	25-10
		Changing the ClimaTrak Display (ATC).....	25-11
		Storage Box.....	25-11
		Dome Light	25-11
		Control Switches for Rear-View Mirror and Rear-Window Heater (If Equipped)	25-12
		Back-Up Alarm (Optional Equipment)	25-12

Continued on next page

Page	Page		
Adjusting the Steering Wheel	25-13	Notes on Changing to a Different Size of Tire	45-3
Installing the Monitor	25-13	Transmission - Information on Maximum Speed	45-3
Sockets	25-14	Travel Speed Tables and SRI Values	45-4
Multiple Power-Outlet Socket Strip (If Equipped)	25-15	Travel Speeds, PowrQuad™ PLUS and AutoQuad™ PLUS Transmissions for 40 km/h (20/20), on 6140R and 6150R Tractors - Tires with SRI 825 and 875	45-5
Service Socket (CAN BUS)	25-15	Travel Speeds, PowrQuad™ PLUS and AutoQuad™ PLUS Transmissions for 40 km/h (20/20), on 6140R and 6150R Tractors - Tires with SRI 925	45-6
Cigarette Lighter and Ashtray	25-16	Travel Speeds, PowrQuad™ PLUS and AutoQuad™ PLUS Transmissions for 40 km/h (20/20), on 6170R and 6210R Tractors - Tires with SRI 925 and 975	45-7
Microphone for Bluetooth Applications	25-16	Travel Speeds, AutoQuad™ PLUS Transmission with EcoShift for 40 km/h (20/20), on 6140R and 6150R Tractors - Tires with SRI 700 and 725	45-8
Connection of Memory Storage and Multimedia Appliances	25-17	Travel Speeds, AutoQuad™ PLUS Transmission with EcoShift for 40 km/h (20/20), on 6140R and 6150R Tractors - Tires with SRI 800	45-9
USB Service Connection for CommandCenter	25-17	Travel Speeds, AutoQuad™ PLUS Transmission with EcoShift for 40 km/h (20/20), on 6170R to 6210R Tractors - Tires with SRI 925 and 975	45-10
ISOBUS Socket	25-17	Travel Speeds, AutoQuad™ PLUS Transmission for 50 km/h (20/20), on 6140R and 6150R Tractors - Tires with SRI 825 and 875	45-11
Opening Windows	25-18	Travel Speeds, AutoQuad™ PLUS Transmission for 50 km/h (20/20), on 6140R and 6150R Tractors - Tires with SRI 925	45-12
Routing Cables Through the Window	25-18	Travel Speeds, AutoQuad™ PLUS Transmission for 50 km/h (20/20), on 6170R to 6210R Tractors - Tires with SRI 925 and 975	45-13
Roof Hatch (If Equipped)	25-19	Travel Speeds, DirectDrive Transmission for 40 km/h (24/24), on 6140R and 6150R Tractors - Tires with SRI 825, 875 and 925	45-14
Roller-Blind	25-19	Travel Speeds, DirectDrive Transmission for 50 km/h (24/24), on 6140R and 6150R Tractors - Tires with SRI 825, 875 and 925	45-16
Break-In Period		Travel Speeds, DirectDrive Transmission for 40 km/h (24/24), on 6170R to 6210R Tractors - Tires with SRI 925 and 975	45-18
After the First 4 and 8 Hours of Operation	30-1	Travel Speeds, DirectDrive Transmission for 50 km/h (24/24),	
Within the First 100 Hours of Operation	30-3		
After the First 100 Hours of Operation	30-3		
Prestarting Checks			
Prestarting Checks	35-1		
Comply with Operator's Manuals of Implement Manufacturers	35-3		
Operating the Engine			
Important Information Regarding the Engine	40-1		
Start the Engine	40-2		
Cold-Weather Starting Aids	40-3		
Coolant Heater	40-3		
Starting the Engine with a Slave Battery	40-4		
Engines with Turbocharger	40-4		
Intelligent Power Management (power boost)	40-5		
Engine Protection	40-6		
Towing the Tractor	40-6		
Stopping the Engine	40-6		
Battery Cut-Off Switch (If Equipped)	40-7		
Exhaust Cleaning System			
Exhaust Filter Cleaning, General Information	42-1		
Access the Engine Menu in CommandCenter™	42-1		
Exhaust Cleaning System, Information for Operator	42-3		
Passive Exhaust Filter Cleaning	42-4		
Automatic Exhaust Filter Cleaning	42-5		
Exhaust Filter Cleaning with Tractor Parked	42-6		
Exhaust Filter, Service-Cleaning	42-10		
Operating the Tractor — General			
Reduce Fuel Consumption	45-1		
Select Correct Travel Speed	45-3		

Continued on next page

	Page		Page
on 6170R to 6210R Tractors - Tires		Hitch	
with SRI 925 and 975	45-20	Hitch Control.....	50-1
Engage Front-Wheel Drive	45-21	Hitch - Maximum Lifting Force	50-2
Tractors with TLS Front Axle	45-22	Hitch Remote Control	50-2
Tractors with Cab Suspension.....	45-24	Hitch - Lift Limit.....	50-3
Engage the Creeper Transmission	45-25	Hitch - Transporting Mounted Implements	50-3
Engage the Differential Lock	45-25	Hitch - Hitch Dampening.....	50-4
Hydraulic Foot Brakes	45-26	Hitch - Adjust Rate of Implement Drop	50-4
Emergency Brake System	45-27	Hitch - Adjust the Rate of Lift.....	50-5
Hydraulic Trailer Brakes	45-27	Hitch - Adjust Working Depth	50-5
Air Brakes	45-28	Hitch - Load/Depth Adjustment.....	50-6
Parking the Tractor (Tractors Without		Hitch - Using Draft Control.....	50-8
AutoPowr)	45-28	Hitch - Adjust Slip Sensitivity (if equipped).....	50-9
Parking the Tractor (Tractors With AutoPowr) ..	45-29	Hitch - Float Position	50-9
Parking the Tractor (Tractors with		Hitch - Direct Control	50-10
DirectDrive)	45-29	Front Hitch	50-10
Chock Block.....	45-29	Three-Point Hitch.....	50-14
		Quick-Coupling (Hook-Type) Draft Links	50-14
Operating the Tractor — PowrQuad™ PLUS		Telescopic Draft Links.....	50-16
Shifting the PowrQuad™ PLUS Transmission ...	46-1	Attach Three-Point Hitch Mounted and	
PowrQuad™ PLUS Transmission — Settings....	46-3	Drawn Implements	50-17
		Levelling the Implement.....	50-17
Operating the Tractor — AutoQuad™ PLUS		Center Link	50-17
Shifting the AutoQuad™ PLUS Transmission	47-1	Center Link Positions.....	50-18
AutoQuad™ PLUS Transmission — Settings	47-4	Quick-Coupling (Hook-Type) Center Link.....	50-18
		Hydraulic Center Link / EasyGuide	
Operating the Tractor — AutoPowr™		Center Link.....	50-19
AutoPowr — Special Features when		EasyGuide Center Link (if equipped).....	50-20
Maneuvering the Tractor	48-1	Remote Control of Hydraulic Center Link	50-21
AutoPowr™ — Cold-Weather Starting	48-1	Lift Links	50-22
AutoPowr™ — Controls	48-2	Adjust for Vertical Float.....	50-23
AutoPowr™ — Settings.....	48-5	Sway Blocks (If Equipped).....	50-23
AutoPowr — Set Speeds, Guidelines		Stabilizer Bar (If Equipped).....	50-24
and Examples	48-10	Stabilizing System (If Equipped).....	50-24
AutoPowr™ — Operating on Hillside		Draft Links, Category 3 — Adjust	
in Slippery Conditions	48-11	Spreading Dimension	50-25
AutoPowr — Using Creeper Mode	48-11	Draft Links, Category 3N — Adjust	
AutoPowr™ — Accelerator Pedal Mode	48-12	Spreading Dimension	50-26
AutoPowr — Stopping And Parking		Hydraulic Stabilizer Bars (If Equipped).....	50-27
The Tractor.....	48-13	Adjust the Spreading Dimension on	
AutoPowr — Come-Home Mode	48-14	Hydraulic Stabilizer Bars	50-28
AutoPowr — Towing the Tractor.....	48-14	Adjust Telescopic Draft Links for	
		Category 3 or 3N.....	50-29
Operating the Tractor — DirectDrive		iTEC™ — Intelligent Total Equipment Control	
DirectDrive — Controls.....	49-1	iTEC™ - Description, Controls and Functions....	51-1
DirectDrive — Cold-Weather Starting.....	49-4	iTEC - CommandCenter™ Menu	51-2
DirectDrive — Special Features when		iTEC - Indicator Light on Instrument Panel.....	51-3
Maneuvering the Tractor	49-4	iTEC - Summary of Programs and Functions.....	51-4
DirectDrive — Settings	49-5	iTEC - Main Page, Enter Program Mode.....	51-5
DirectDrive — Customizing Vehicle Behavior...	49-11	iTEC™ - Available Functions and	
DirectDrive — Operating with Trailer		Possible Operations	51-7
on Hillside in Slippery Conditions	49-11	iTEC - Alerts	51-9
DirectDrive — Stopping and Parking		iTEC - Status Page.....	51-10
the Tractor.....	49-12	Rename iTEC Implement/Sequence	51-11
DirectDrive — Come-Home Mode	49-13		
DirectDrive — Towing the Tractor.....	49-13		

Continued on next page

Page	Page		
iTEC - Editing Mode, Set Up a Sequence While Stationary.....	51-12	Change Wheels Safely.....	65-3
iTEC - Recording Mode, Set Up a Sequence While Driving.....	51-13	Tires on Front Wheels.....	65-3
iTEC - Delete Sequence.....	51-14	Checking and Adjusting Toe-In.....	65-4
iTEC - Learn Distances.....	51-15	Checking Toe-in on Front-Wheel Drive Axles.....	65-4
iTEC - Perform Programmed Sequences.....	51-16	Adjusting Toe-in on Front-Wheel Drive Axles.....	65-5
TIA™ — Tractor-Implement Automation™		Instructions for Front Wheel Tread Adjustment with Rims for 2, 8 and 16 Positions.....	65-6
TIA - Tractor-Implement Automation, Safety.....	52-1	Front Wheel Tread Adjustment with Rims for 2 Positions - 6140R.....	65-7
TIA - Safety.....	52-1	Front Wheel Tread Adjustment with Rims for 2 Positions - 6150R.....	65-8
TIA™ - Implement Detected.....	52-1	Front-Wheel Tread Adjustment with Rims for 2 Positions - 6170R to 6210R.....	65-9
TIA™ - Auxiliary Control Detected.....	52-2	Front Wheel Tread Adjustment with Rims for 8 Positions - 6140R.....	65-10
TIA - Status Page.....	52-3	Front Wheel Tread Adjustment with Rims for 8 Positions - 6150R.....	65-11
TIA - Activating the Implements.....	52-4	Front-Wheel Tread Adjustment with Rims for 8 Positions - 6170R to 6210R.....	65-12
TIA - Requirements for Rear Hitch.....	52-6	Front Wheel Tread Adjustment with Rims for 16 Positions - 6140R.....	65-13
TIA - Requirements for PTO.....	52-6	Front Wheel Tread Adjustment with Rims for 16 Positions - 6150R.....	65-17
TIA - Requirements for Electronic Selective Control Valves.....	52-7	Adjust the Fixed Fenders.....	65-19
TIA - Requirements for Guidance.....	52-7	Adjust the Pivoting Fenders.....	65-20
TIA - Requirements for AutoPowr.....	52-8	Fender Settings - (on 6140R and 6150R Tractors).....	65-23
TIA - Operating Tractor-Implement Automation.....	52-9	Fender Settings - (on Tractors 6170R to 6210R).....	65-28
Power Take-Off		Front Axle - Adjust Steering Stop.....	65-31
PTO Guard.....	55-1	Instructions for Rear Wheel Tread Adjustment with Rims for 2, 8 and 16 Positions - Flanged Axle.....	65-37
Operating Instructions.....	55-2	Rear Wheel Tread Adjustment with Rims for 2 Positions - Flanged Axle (Tractor 6140R).....	65-38
PTO Options.....	55-2	Rear Wheel Tread Adjustment with Rims for 2 Positions - Flanged Axle (Tractor 6150R).....	65-39
PTO Speeds.....	55-2	Rear Wheel Tread Adjustment with Rims for 2 Positions - Flanged Axle (Tractors 6170R to 6210R).....	65-40
Change the Rear PTO Stub Shaft.....	55-3	Rear Wheel Tread Adjustment with Rims for 2 Positions (Heavy-Duty Type) - Flanged Axle (6140R Tractor).....	65-41
Front PTO.....	55-3	Rear Wheel Tread Adjustment with Rims for 2 Positions (Heavy-Duty Type) - Flanged Axle (6150R Tractor).....	65-41
Engaging the PTO.....	55-4	Rear Wheel Tread Adjustment with Rims for 2 Positions (Heavy-Duty Version) - Flanged Axle (6170R to 6210R Tractors).....	65-42
Select Standard Speed of Rear PTO (Shiftable PTO).....	55-5	Rear Wheel Tread Adjustment with Rims for 8 Positions - Flanged Axle (Tractors 6170R to 6210R).....	65-43
Fine Adjustment of Rear PTO Speed (Shiftable PTO).....	55-6		
Operating the Rear PTO by Fender Control.....	55-7		
Connect an Implement to the Rear PTO.....	55-8		
Ballast			
Selection of Weights.....	60-1		
Ballasting Rear Wheels.....	60-1		
Measuring Rear Wheel Slip.....	60-1		
Wheel Weights.....	60-2		
Filling Tires With Liquid Ballast.....	60-2		
Draining the Tires.....	60-3		
Attach the Pick-Up Weight to the Front Hitch.....	60-3		
Pre-Assemble the Pick-Up Weight.....	60-4		
Attaching to Rear Hitch.....	60-5		
Attaching to Basic Weight.....	60-6		
Weight in the Three-Point Hitch.....	60-7		
Install Front Weights.....	60-8		
Wheels, Tires			
General Wheel, Tire, and Tread Guidelines.....	65-1		
Use of Dual Wheels (easy-to-attach).....	65-2		
Changing to a Different Tire Size.....	65-2		

Continued on next page

Page	Page		
Rear Wheel Tread Adjustment with Rims for 16 Positions - Flanged Axle (Tractor 6140R).....	65-44	Levers for Mechanical Selective Control Valves	70-2
Rear Wheel Tread Adjustment with Rims for 16 Positions - Flanged Axle (Tractor 6150R).....	65-46	Additional Functions for Mechanical Selective Control Valves	70-3
Rear Wheel Tread Adjustment with Rims for 16 Positions (Heavy-Duty Type) - Flanged Axle (6140R Tractor).....	65-48	Levers for Electronic Selective Control Valves ...	70-4
Rear Wheel Tread Adjustment with Rims for 16 Positions (Heavy-Duty Type) - Flanged Axle (6150R Tractor).....	65-50	Additional Functions for Electronic Selective Control Valves	70-5
Tighten Rear Wheel Bolts (with Rack-and-Pinion Axle)	65-52	Selective Control Valves - Couplers	70-10
Rear Wheel Adjusting —Cast.....	65-53	Selective Control Valves - Hose Unions	70-10
Rear Wheel Adjusting —Steel.....	65-54	Selective Control Valves - Maximum Permissible Oil Withdrawal	70-11
Rear Wheel Tread Adjustment with Rims for 2 Positions - Rack-and-Pinion Axle (6170R to 6210R Tractors)	65-55	Selective Control Valves - Oil Withdrawal with Hydrostatic Drive.....	70-12
Rear Wheel Tread Adjustment with Rims for 8 Positions - Rack-and-Pinion Axle (6170R to 6210R Tractors)	65-56	Additional Oil Reservoir.....	70-12
Service Tires Safely.....	65-57	Pressure-Free Return Circuit.....	70-13
Tire Combinations - 6140R.....	65-58	Mechanical Multi-Function Lever with Front-Loader Dampening	70-14
Tire Combinations - 6150R.....	65-60	Multi-Function Lever (Electrical).....	70-15
Tire Combinations - 6170R to 6210R.....	65-62	Front Loader with Return-to-Position Function	70-17
Calculate Tire Combinations (Graphic)	65-63		
Calculate Tire Combinations - (on 6140R and 6150R Tractors).....	65-64	Additional Equipment — Other	
Calculate Tire Combinations - (on Tractors 6170R to 6210R).....	65-66	Swinging Drawbar	71-1
Tire Pressures	65-67	Proper Use of Drawbar.....	71-1
Tire Inflation Pressure Guidelines	65-67	Locking the Hitch Pins	71-2
Front Wheels - Recommended Pressures, Bias Single Front Tires (Two-Wheel Drive)	65-68	Locking the Height-Adjustable Trailer Hitch	71-3
Front Wheels - Recommended Pressures, Group 42	65-69	Front Loader Implements - Front loader Consoles for Loaders H360 and H380	71-4
Front Wheels - Recommended Pressures, Group 42 (Continued)	65-70	Front Jaw Hitch.....	71-4
Front Wheels - Recommended Pressures, Group 43	65-71	Tow Hitch (Piton-Fix/Ball-Type)	71-5
Front Wheels - Recommended Pressures, Group 43 (Continued)	65-72	Height-Adjustable Trailer Hitch.....	71-7
Rear Wheels - Recommended Pressures, Group 47	65-73	Remote Control (If Equipped).....	71-7
Rear Wheels - Recommended Pressures, Group 47 (Continued)	65-74	Hydraulic Pick-Up Hitch (Mechanically Actuated).....	71-8
Rear Wheels - Recommended Pressures, Group 47 (Continued)	65-75	Hydraulic Pick-Up Hitch (Electrically Actuated) ..	71-9
		Lockable Tank Filler Cap	71-10
Additional Equipment — Hydraulic System			
Selective Control Valves.....	70-1	Transport	
Selective Control Valves - Pressure Adjustment on 300, 350 and 450 Series	70-1	Driving Tractor on Roads.....	75-1
		Towing Loads.....	75-2
		Transporting the Tractor	75-2
		Towing the Tractor.....	75-3
		Manual Park Lock Release (Tractors with AutoPowr).....	75-3
		Mired Machine	75-6
		Fuels, Lubricants, Oils and Coolants	
		John Deere Break-In Plus™ Engine Oil — Interim Tier 4, Final Tier 4, Stage IIIB, and Stage IV	80-1
		Diesel Engine Oil — Interim Tier 4, Final Tier 4, Stage IIIB, and Stage IV.....	80-1
		Engine Oil and Filter Service Intervals — Interim Tier 4, Final Tier 4, Stage IIIB, and Stage IV — OEM Applications.....	80-2
		Transmission and Hydraulic Oil	80-3
		Front-Wheel Drive Axle Oil.....	80-4

Continued on next page

Page	Page		
Wash Machine After Unloading	80-5	Clean the Radiator, Condenser and Area Surrounding the Engine	90-1
Grease	80-5	Check Coolant Level	90-2
Multiluber Grease	80-5	Air Brake System - Check for Condensed Water	90-2
Mixing of Lubricants	80-6	Check Transmission/Hydraulic System Oil Level	90-3
Lubricant Storage	80-6	Check Engine Oil Level	90-4
Alternative and Synthetic Lubricants	80-6	Check the Fuel Filters	90-4
Diesel Engine Coolant (engine with wet sleeve cylinder liners)	80-7	Lubricate Front Hitch	90-5
Operating in Warm Temperature Climates	80-7	Lubricate the Front Axle and U.j. Shafts	90-5
John Deere COOL-GARD™ II Coolant Extender	80-8	Lubricate Hitch Jaw	90-6
Water Quality for Mixing with Coolant Concentrate	80-8	Lubricate the Three-Point Hitch	90-7
Testing Coolant Freeze Point	80-9	Lubricating the Pick-Up Hitch	90-7
Diesel Fuel	80-10		
Handling and Storing Diesel Fuel	80-10	Service / Every 250 Hours	
Lubricity of Diesel Fuel	80-11	Check the Neutral Start Circuit - PowrQuad™ Plus and AutoQuad™ Plus Transmission	95-1
Testing Diesel Fuel	80-11	Check the Neutral Start Circuit - AutoPowr™/IVT™ Transmission	95-1
BioDiesel Fuel	80-12	Check the Neutral Start Circuit - DirectDrive Transmission	95-1
Minimizing the Effect of Cold Weather on Diesel Engines	80-14	Check Air Intake Hoses	95-2
Supplemental Diesel Fuel Additives	80-15	Service the Fuel Tank	95-2
Oilscan™ and CoolScan™	80-15	Front-Wheel Drive Axle - Check Oil Level in Axle Housing	95-2
		Front-Wheel Drive Axle - Check Oil Level in Final Drives	95-3
Lubrication and Periodic Service		Front PTO - Check Oil Level	95-3
Scope of This Manual	85-1	Tighten Wheel Bolts and Wheel Weights	95-4
Safe Maintenance and Cleaning	85-1	Front Loader Bracket - Tighten Screws on H360 and H380 Loaders	95-6
Observe Service Intervals	85-1	Front Hitch - Tighten the Screws	95-6
Using High Pressure Washers	85-1	CAT II Drawbar - Tighten the Screws	95-6
Lubricate All Lubricating Points	85-2	CAT III Drawbar - Tighten the Screws	95-7
Lubrication and Periodic Service	85-2	Height-Adjustable Trailer Hitch - Tighten the Screws	95-7
General Instructions Regarding the Condition of the Tractor	85-2	Ball-Type Tow Hitch with Forced Steering System - Tighten the Screws	95-7
Open the Hood	85-3	Pick-Up Hitch	95-8
Opening Service Doors	85-3	Lubricate Pivoting Fenders	95-8
Access to Battery	85-4	Lubricate the Cab Suspension System	95-8
Access to Fuses	85-5	Rear PTO, Lubricate Stub Shaft Support	95-9
Jack Up the Tractor - Lifting Points	85-6	Check the Manually-Operated Trailer Hitch for Wear	95-9
Important Instructions Regarding Alternator	85-8	Check the Manually-Operated Hitch for Wear (Italy and Spain Only)	95-11
Service After the First 100 Hours	85-9	Check the Remote-Controlled Trailer Hitch for Wear	95-12
Service As Required	85-9	Trailer Hitch, Check the Guide Rails	95-14
Check/Replace Hydraulic Hoses	85-9	Check for Wear at Tow Hitch (Piton Fix)	95-14
Other Service Jobs	85-9	Check for Wear at Ball-Type Tow Hitch	95-15
Note Regarding the Service Interval for Engine Coolant	85-10	Check the Drawbar for Wear	95-15
Periodic Service	85-10	Check Tow Hook on Pick-Up Hitch for Wear	95-16
Service (Daily / Every 10, After 100, Every 250 and 500 Hours)	85-11		
Service (Every 750, 1000, 2000 Hours, Annually and Every 1500 Hours)	85-13		
Service (Every 2 Years, Every 3000, 4500, 6000 and 10000 Hours)	85-14		
Service / Daily or Every 10 Hours			
Check Brakes	90-1		
Check the Lights	90-1		

Continued on next page

Page	Page
Service / Every 500 Hours	
Change Engine Oil	100-1
Engine - Change the Oil Filter	100-1
Change the Fuel Filters	100-2
Changing Activated Carbon Filters	100-2
Lubricate the Draft Link Bearings (if equipped)	100-3
Lubricate the Rear Axle	100-3
Engine - Check Drive Belt for Wear	100-4
Check Engine Ground Connection	100-4
Check the Cab Ground Connection	100-4
Bleed and Check the Brake System	100-5
Service / Every 750 Hours	
Replace Transmission/Hydraulic Oil Filters	105-1
Front PTO - Change Oil Filter (if equipped)	105-1
Change Oil in Final Drives (Front-Wheel Drive Axle with Brake)	105-2
Service / Once a Year	
Check the Seat Belt	110-1
Engine - Use Coolant Test Strips to Check Coolant	110-1
Inspect Hydraulic Hoses	110-1
Other Annual Service Jobs	110-2
Service / Every 1500 Hours or 2 Years	
Changing Cab Air Filters and Recirculation Air Filters	115-1
Change the Engine Air Cleaner	115-1
Engine - Change Filter of Oil Separator in Crankcase Vent	115-2
Changing Oil in Front-Wheel Drive Axle and Final Drives	115-2
Change Oil In Front-Wheel Drive Axle Housing	115-2
Change Oil in Front-Wheel Drive Final Drives ..	115-3
Change Transmission/Hydraulic Oil and Oil Filters (Tractors with AutoPowr™/IVT™)	115-4
Change Transmission/Hydraulic Oil and Oil Filters (Tractors with PowrQuad™ PLUS or AutoQuad™ PLUS) ..	115-6
Change Transmission/Hydraulic Oil and Oil Filters (Tractors with DirectDrive Transmission)	115-8
Front PTO - Change Oil and Oil Filter (if equipped)	115-9
Air Brakes - Change the Air-Drier Cartridge	115-9
Service / Every 4500 Hours	
Engine Air Cleaner - Change the Secondary Element	117-1
Service / Every 6000 Hours	
Note Regarding the Service Interval for Engine Coolant	
Engine Coolant	120-1
Change Coolant	120-2
Service / As Required	
Cleaning Cab Air Filters	125-1
Bleed Air from Fuel System	125-1
Lubricate All Lubricating Points	125-1
Operator's Seat	125-2
Starter Motor	125-2
Replace Diesel Particulate Filter (DPF)	125-2
Replacing the Drive Belt - 6-Cylinder Engines ..	125-3
Fuse and Relay of Electrical Starting Aid	125-5
Fuse and Relay Box (PLB) - (on Tractors 6140R and 6150R)	125-6
Fuse and Relay Box (PLB) - (on Tractors 6170R to 6210R)	125-8
Fuses and Relays (LCS) with PowrQuad™ Transmission - (on Tractors 6140R and 6150R)	125-10
Fuses and Relays (LCS) with PowrQuad™ Transmission - (on Tractors 6170R to 6210R)	125-16
Fuses and Relays (LCS) on DirectDrive Transmission - (on 6140R and 6210R Tractors)	125-22
Fuses and Relays (LCS) with AutoPowr™/IVT™ Transmissions - (on Tractors 6140R and 6150R)	125-28
Fuses and Relays (LCS) with AutoPowr™/IVT™ Transmissions - (on Tractors 6170R to 6210R)	125-34
Troubleshooting	
Hydraulic system	130-1
Engine	130-2
Electrical System	130-3
Diagnostic Trouble Codes and Settings	
Operation and Entering the Diagnostic Addresses with CommandCenter™ (Customer Level)	
	135-1
Displaying and Deleting Diagnostic Trouble Codes with CommandCenter™	
	135-4
Diagnostic Trouble Codes, Information for the User	
	135-6
AIC - Control Software	135-7
CCU - Control Software	135-8
CLC - Control Software	135-8
CSC - Control Software	135-9
CSM - Control Software	135-9
ECU - Control Software	135-10
EIC - Control Software	135-13
FCC - Control Software	135-13

Continued on next page

Page	Page		
HCC - Control Software.....	135-14	Permissible Front Axle Load in Relation to Tires (Normal Operation) - 6170R to 6210R.....	145-23
OIC - Control Software.....	135-14	Permissible Front Axle Load in Relation to Tires (Front Loader Operation) - 6170R to 6210R.....	145-25
PDU - Control Software.....	135-14	Permissible Rear Axle Load in Relation to Tires - 6140R.....	145-27
PLC - Control Software.....	135-15	Permissible Rear Axle Load in Relation to Tires - 6150R.....	145-29
PTA - Control Software.....	135-15	Permissible Rear Axle Load in Relation to Tires - 6170R to 6210R.....	145-30
PTF - Control Software.....	135-15	Unified Inch Bolt and Screw Torque Values.....	145-31
PTQ - Control Software.....	135-16	Metric Bolt and Screw Torque Values.....	145-32
RLC - Control Software.....	135-16	Safety Note Regarding the Subsequent Installation of Electrical and Electronic Appliances and/or Components.....	145-33
RPT - Control Software.....	135-17		
SCC - Control Software.....	135-17		
SCO - Control Software.....	135-17		
SFA - Control Software.....	135-18		
SMV - Control Software.....	135-18		
TEC - Control Software.....	135-18		
TIA - Control Software.....	135-19		
TIQ - Control Software.....	135-20		
VLC - Control Software.....	135-20		
XMC - Control Software.....	135-20		
XSC - Control Software.....	135-21		
Storage		Serial Numbers	
Storage for a Long Period	140-1	Type Plates.....	150-1
Removing Tractor from Storage	140-2	Plate for Product Identification and Serial Numbers of Components	150-1
		Plate for Product Identification Number.....	150-1
		Engine Serial Number	150-2
		Transmission Serial Number	150-2
		Front-Wheel Drive Axle Serial Number	150-2
		Serial Number of Operator's Cab	150-3
		Serial Number of Operator's Seat	150-3
		Sub-Assembly Serial Numbers.....	150-3
Specifications		Glossary	
Dimensions.....	145-1	Glossary	155-1
Engine - (on Tractors 6140R and 6150R)	145-2		
Engine - (on Tractors 6170R to 6210R)	145-3		
PTO Power Output - (on Tractors 6140R and 6150R).....	145-4		
PTO Power Output - (on Tractors 6170R to 6210R).....	145-4		
Transmission	145-5		
Hitch - (on Tractors 6140R and 6150R)	145-6		
Hitch (6170R to 6210R).....	145-6		
Hydraulic System.....	145-7		
Oil Withdrawal	145-7		
Operating the Tractor in an Inclined Position ...	145-8		
Loads and Weights - (on Tractors 6140R and 6150R).....	145-9		
Loads and Weights - (on Tractors 6170R to 6210R).....	145-10		
How to Calculate Maximum Permissible Download on Trailer Hitch	145-11		
Towed Mass.....	145-12		
How to Calculate Permissible Mass	145-12		
Vibration	145-13		
Electrical System.....	145-13		
Capacities (6140R and 6150R)	145-13		
Capacities (6170R to 6210R)	145-14		
Sound Level.....	145-14		
Permissible Front Axle Load in Relation to Tires (Normal Operation) - 6140R.....	145-15		
Permissible Front Axle Load in Relation to Tires (Front Loader Operation) - 6140R ..	145-17		
Permissible Front Axle Load in Relation to Tires (Normal Operation) - 6150R.....	145-19		
Permissible Front Axle Load in Relation to Tires (Front Loader Operation) - 6150R ..	145-21		

Identification View

Identification View



LX1049728

Tractor Shown with Optional Equipment

OULXBER,00018D5 -19-23APR10-1/1

LX1049728 —UN—19APR10

Identification View

Trademarks

Trademarks	
AutoPowr™	Trademark of Deere and Company
AutoPowr™/IVT™	Trademark of Deere and Company
AutoQuad™ II	Trademark of Deere and Company
AutoQuad™ PLUS	Trademark of Deere and Company
AutoTrac™	Trademark of Deere and Company
ClimaTrak™	Trademark of Deere and Company
ComfortGard™	Trademark of Deere and Company
ComfortGard Deluxe™	Trademark of Deere and Company
CommandARM™	Trademark of Deere and Company
CommandCenter™	Trademark of Deere and Company
COOL-GARD™	Trademark of Deere and Company
COOL-GARD II™	Trademark of Deere and Company
CoolScan™	Trademark of Deere and Company
CoolScan PLUS™	Trademark of Deere and Company
Deere™	Trademark of Deere and Company
FieldCruise™	Trademark of Deere and Company
Field Doc™	Trademark of Deere and Company
Field Office™	Trademark of Deere and Company
GreenStar™	Trademark of Deere and Company
ILS™	Trademark of Deere and Company
Hy-Gard™	Trademark of Deere and Company
ITEC™	Trademark of Deere and Company
ITEC™ Basic	Trademark of Deere and Company
ITEC™ Pro	Trademark of Deere and Company
IVT™	Trademark of Deere and Company
IVT Selector™	Trademark of Deere and Company
JDLINK™	Trademark of Deere and Company
JDOFFICE™	Trademark of Deere and Company
John Deere™	Trademark of Deere and Company
Oilscan™	Trademark of Deere and Company
Parallel Tracking™	Trademark of Deere and Company
Plus-50™	Trademark of Deere and Company
PowerTech™	Trademark of Deere and Company
PowerTech™ Plus	Trademark of Deere and Company
PowerZero™	Trademark of Deere and Company
PowrQuad™	Trademark of Deere and Company
PowrQuad™ PLUS	Trademark of Deere and Company
PowrReverser™	Trademark of Deere and Company
Service ADVISOR™	Trademark of Deere and Company
SERVICEGARD™	Trademark of Deere and Company
StarFire™	Trademark of Deere and Company
StarFire™ iTC	Trademark of Deere and Company
StellarSupport™	Trademark of Deere and Company
SyncroPlus™	Trademark of Deere and Company
TLS™	Trademark of Deere and Company
Tractor-Implement Automation™	Trademark of Deere and Company
Triple Link Suspension™	Trademark of Deere and Company

OULXA64,00027E1 -19-25JUN12-1/1

Safety

Recognize Safety Information

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 -19-29SEP98-1/1

TS1389 —UN—28JUN13

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.



▲ WARNING

▲ CAUTION

DX,SIGNAL -19-03MAR93-1/1

TS187 —19—30SEP88

Follow Safety Instructions

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

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 -19-16JUN09-1/1

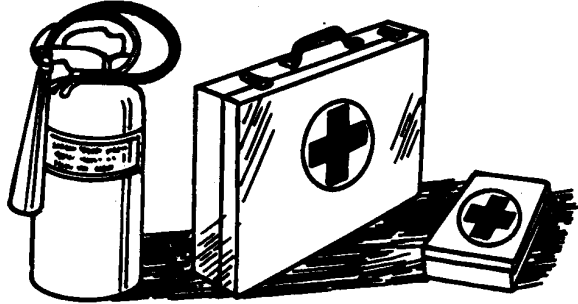
TS201 —UN—15APR13

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.



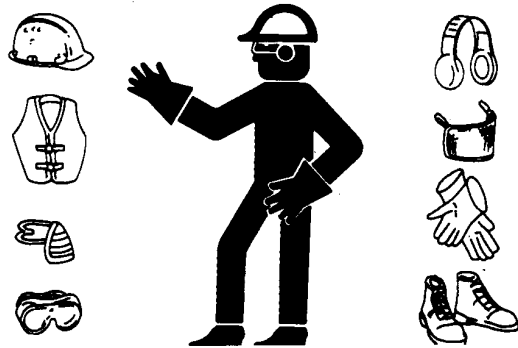
TS291 —UN—15APR13

DX,FIRE2 -19-03MAR93-1/1

Wear Protective Clothing

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

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



TS206 —UN—15APR13

DX,WEAR2 -19-03MAR93-1/1

Protect Against Noise

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.



TS207 —UN—23AUG88

DX,NOISE -19-03MAR93-1/1

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.

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 -19-12OCT11-1/1

TS202 —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 -19-16APR92-1/1

TS1356 —UN—18MAR92

Fire Prevention

To reduce the risk of fire, your tractor should be regularly inspected and cleaned.

- Birds and other animals may build nests or bring other flammable materials into the engine compartment or onto the exhaust system. The tractor should be inspected and cleaned prior to the first use each day.
- A build up of grass, crop material and other debris may occur during normal operation. This is especially true when operating in very dry conditions or conditions where airborne crop material or crop dust is present. Any such build up must be removed to ensure proper machine function and to reduce the risk of fire. The tractor must be inspected and cleaned periodically throughout the day.
- Regular and thorough cleaning of the tractor combined with other routine maintenance procedures listed in the

Operator's Manual greatly reduce the risk of fire and the chance of costly downtime.

- Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.
- Check fuel lines, tank, cap, and fittings frequently for damage, cracks or leaks. Replace if necessary.

Follow all operational and safety procedures posted on the machine and the Operator's Manual. Be careful of hot engine and exhaust components during inspection and cleaning. Before carrying out any inspection or cleaning, always shut OFF the engine, place the transmission in PARK or set parking brake, and remove the key. Removal of the key will prevent others from starting the tractor during inspection and cleaning.

DX,WW,TRACTOR,FIRE,PREVENTION -19-12OCT11-1/1

In Case of Fire

⚠ CAUTION: Do not risk personal injury. If a fire is too far advanced, do not try to extinguish it.

Stop machine operation immediately at first sign of fire. Fire may be indicated by smell of smoke or sight of smoke or flames.

If fire can be safely extinguished, proceed carefully following the instructions on your fire extinguisher. If your extinguisher does not have instructions, carefully follow these general guidelines:

1. Remove fire extinguisher from bracket.
2. Cautiously approach area of fire with wind to your back.
3. Pull safety pin from extinguisher.
4. Hold extinguisher by handles and aim hose at base of flames.
5. Squeeze handles to discharge extinguisher.
6. Move nozzle back and forth, covering flames with extinguishing agent.



TS227—UN—15APR13

DX,FIRE4 -19-15AUG12-1/1

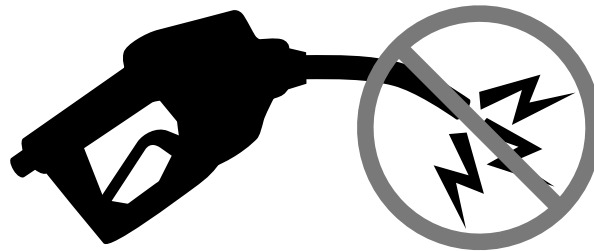
Avoid Static Electricity Risk When Refueling

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.



RG22142—UN—17MAR14

RG21992—UN—21AUG13

DX,FUEL,STATIC,ELEC -19-12JUL13-1/1

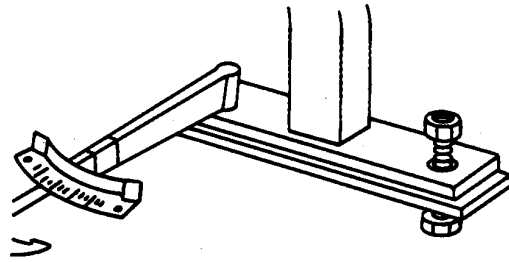
Keep ROPS Installed Properly

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.

The seat is part of the ROPS safety zone. Replace only with John Deere seat approved for your tractor.

Any alteration of the ROPS must be approved by the manufacturer.



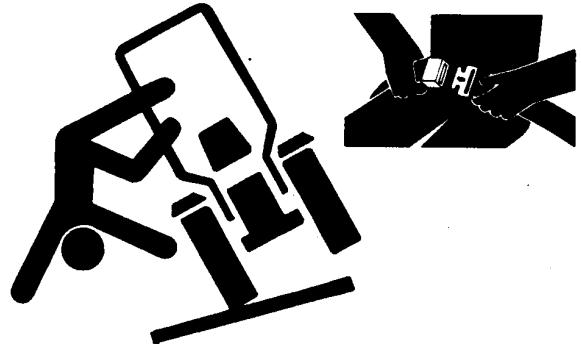
DX,ROPS3 -19-12OCT11-1/1

TSS212 —UN—23AUG88

Use Foldable ROPS and Seat Belt Properly

If this tractor is equipped with a foldable ROPS, keep the ROPS in the fully extended and locked position. If the tractor is ever operated with ROPS folded (e.g., to enter a low building), drive with extreme caution. Do NOT use seat belt with the ROPS folded.

Return the ROPS to the raised, fully extended and locked position as soon as the tractor is operated under normal conditions. Always fasten your seat belt when the ROPS is fully extended and locked.



DX,FOLDROPS -19-31AUG99-1/1

TSS205 —UN—23AUG88

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

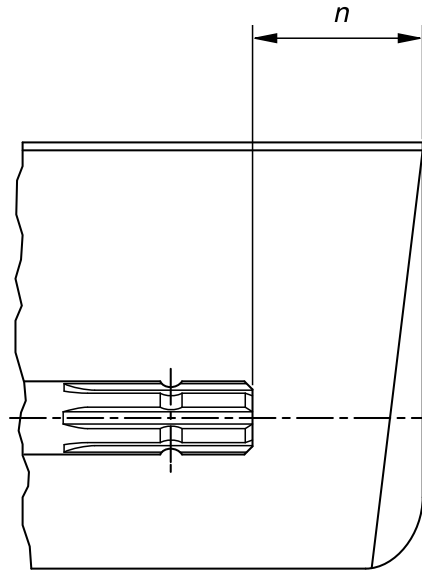
Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and be sure that PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.

Do not install any adapter device between the tractor and the primary implement PTO drive shaft that will allow a 1000 rpm tractor shaft to power a 540 rpm implement at speeds higher than 540 rpm.

Do not install any adapter device that results in a portion of the rotating implement shaft, tractor shaft, or the adapter to be unguarded. The tractor master shield shall overlap the end of the splined shaft and the added adaptor device as outlined in the table.

PTO Type	Diameter	Splines	$n \pm 5 \text{ mm (0.20 in.)}$
1	35 mm (1.378 in.)	6	85 mm (3.35 in.)
2	35 mm (1.378 in.)	21	85 mm (3.35 in.)
3	45 mm (1.772 in.)	20	100 mm (4.00 in.)



TS1644—UN—22AUG95

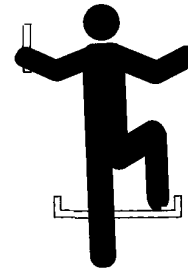
H96219—UN—29APR10

DX,PTO -19-30JUN10-1/1

Use Steps and Handholds Correctly

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.



T133488—UN—15APR13

DX,WW,MOUNT -19-12OCT11-1/1

Read Operator Manuals for ISOBUS Implements

In addition to GreenStar Applications, this display can be used as a display device for any implement that meets ISO 11783 standard. This includes capability to control ISOBUS implements. When used in this manner, information and implement control functions placed on the display are provided by the implement and are the

responsibility of the implement manufacturer. Some of these implement functions could provide a hazard either to the Operator or a bystander. Read the operator manual provided by the implement manufacturer and observe all safety messages in manual and on implement prior to use.

NOTE: ISOBUS refers to the ISO Standard 11783

DX,WW,ISOBUS -19-19AUG09-1/1

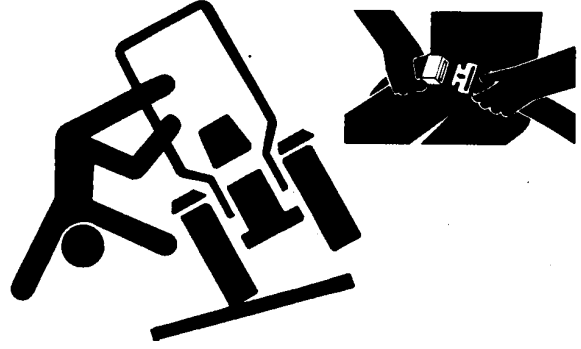
Use Seat Belt Properly

Use a seat belt when you operate with a roll-over protective structure (ROPS) or cab to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS or cab.

Replace entire seat belt if mounting hardware, buckle, belt, or retractor show signs of damage.

Inspect seat belt and mounting hardware at least once a year. Look for signs of loose hardware or belt damage, such as cuts, fraying, extreme or unusual wear, discoloration, or abrasion. Replace only with replacement parts approved for your machine. See your John Deere dealer.



DX,ROPS1 -19-29OCT07-1/1

T5205 —UN—23AUG88

Operating the Tractor Safely

You can reduce the risk of accidents by following these simple precautions:

- Use your tractor only for jobs it was designed to perform, for example, pushing, pulling, towing, actuating, and carrying a variety of interchangeable equipment designed to conduct agricultural work.
- This tractor is not intended to be used as a recreational vehicle.
- Read this operator's manual before operating the tractor and follow operating and safety instructions in the manual and on the tractor.
- Follow operation and ballasting instructions found in the operator's manual for your implements/attachments, such as front loaders
- Make sure that everyone is clear of machine, attached equipment, and work area before starting engine or operation.
- Keep hands, feet, and clothing away from power-driven parts

Driving Concerns

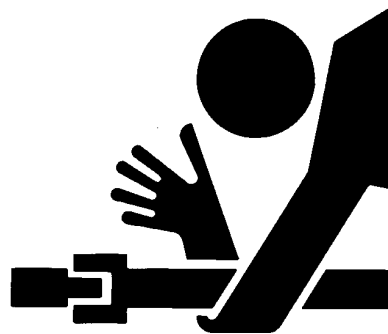
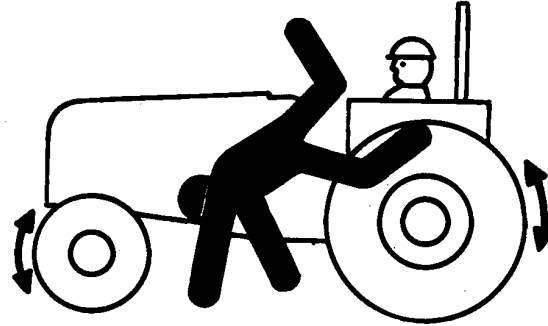
- Never get on or off a moving tractor.
- Keep all children and nonessential personnel off tractors and all equipment.
- Never ride on a tractor unless seated on a John Deere approved seat with seat belt.
- Keep all shields/guards in place.
- Use appropriate visual and audible signals when operating on public roads.
- Move to side of road before stopping.
- Reduce speed when turning, applying individual brakes, or operating around hazards on rough ground or steep slopes.
- Couple brake pedals together for road travel.
- Pump brakes when stopping on slippery surfaces.

Towing Loads

- Be careful when towing and stopping heavy loads. Stopping distance increases with speed and weight of towed loads, and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control.
- Consider the total weight of the equipment and its load.
- Hitch towed loads only to approved couplings to avoid rearward upset.

Parking and Leaving the Tractor

- Before dismounting, shut off SCVs, disengage PTO, stop engine, lower implements/attachments to ground



and securely engage park mechanism, including the park pawl and park brake. In addition, if tractor is left unattended, remove key.

- Leaving transmission in gear with engine off will NOT prevent the tractor from moving.
- Never go near an operating PTO or an operating implement.
- Wait for all movement to stop before servicing machinery.

Common Accidents

Unsafe operation or misuse of the tractor can result in accidents. Be alert to hazards of tractor operation.

The most common accidents involving tractors:

- Tractor rollover
- Collisions with motor vehicles
- Improper starting procedures
- Entanglement in PTO shafts
- Falling from tractor
- Crushing and pinching during hitching

TS290 — UN — 23AUG88

TS276 — UN — 23AUG88

DX,WW,TRACTOR -19-21AUG09-1/1

Avoid Backover Accidents

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.



PC10857XW—UN—15APR13

DX,AVOID,BACKOVER,ACCIDENTS -19-30AUG10-1/1

Limited Use in Forestry Operation

The intended use of John Deere tractors when used in forestry operations is limited to tractor-specific applications like transport, stationary work such as log splitting, propulsion, or operating implements with PTO, hydraulic, or electrical systems.

These are applications where normal operation does not present a risk of falling or penetrating objects. Any forestry

applications beyond these applications, such as forwarding and loading, requires fitment of application-specific components including Falling Object Protective Structure (FOPS) and/or Operative Protective Structures (OPS). Contact John Deere dealer for special components.

DX,WW,FORESTRY -19-12OCT11-1/1

Operating the Loader Tractor Safely

When operating a machine with a loader application, reduce speed as required to ensure good tractor and loader stability.

To avoid tractor rollover and damage to front tires and tractor, do not carry load with your loader at a speed over 10 km/h (6 mph).

To avoid tractor damage do not use a front loader or a sprayer tank if the tractor is equipped with a 3 Meter Front Axle.

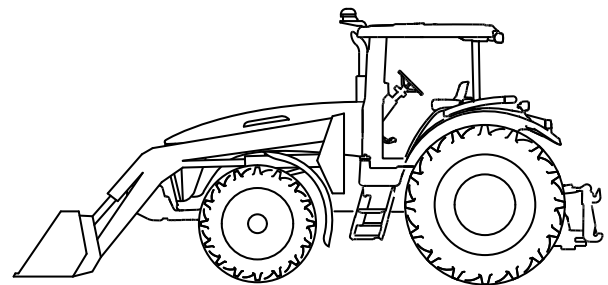
Never allow anyone to walk or work under a raised loader.

Do not use loader as a work platform.

Do not lift or carry anyone on loader, in bucket, or on implement or attachment.

Lower loader to ground before leaving operators station.

The Rollover Protective Structure (ROPS) or cab roof, if equipped, may not provide sufficient protection from load



TS1692—UN—09NOV09

falling onto the operators station. To prevent loads from falling onto the operators station, always use appropriate implements for specific applications (that is, manure forks, round bale forks, round bale grippers, and clampers).

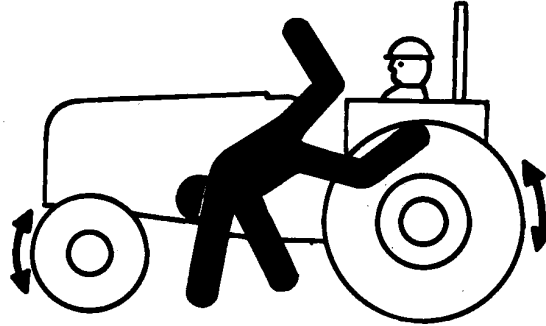
Ballast tractor in accordance to Ballast Recommendations in PREPARE TRACTOR section.

DX,WW,LOADER -19-18SEP12-1/1

Keep Riders Off Machine

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

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



TSS290 —UN—23AUG88

DX,RIDER -19-03MAR93-1/1

Instructional Seat

The instructional seat, if so equipped, has been provided only for training operators or diagnosing machine problems.



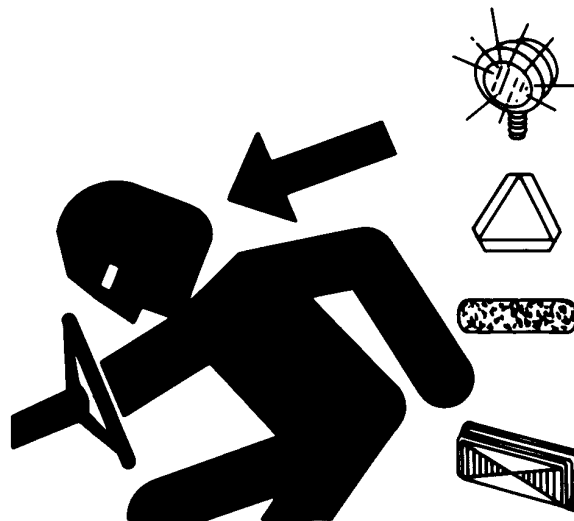
RXA0103436 —UN—15JUN09

DX,SEAT,NA -19-19AUG09-1/1

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.



TSS951 —UN—12APR90

DX,FLASH -19-07JUL99-1/1

Transport Towed Equipment at Safe Speeds

Do not exceed the maximum transport speed. This tractor is capable of operating at transport speeds that exceed the maximum allowable transport speed for most towed implements.

Before transporting a towed implement, determine from signs on the implement or information provided in the implement's operator manual the maximum transport speed. Never transport at speeds that exceed the implement's maximum transport speed. Exceeding the implement's maximum transport speed can result in:

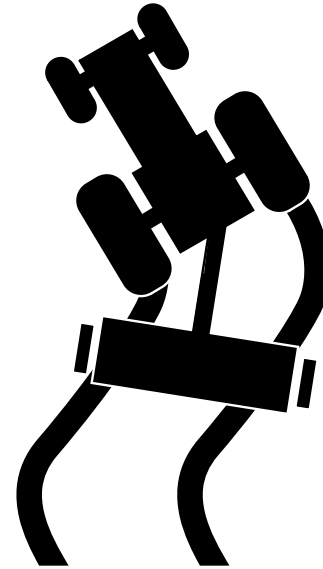
- Loss of control of the tractor/implement combination
- Reduced or no ability to stop during braking
- Implement tire failure
- Damage to the implement structure or its components

Implements without brakes:

- Do not transport at speeds greater than 32 km/h (20 mph).
- Must weigh less than 1.5 times the tractor weight and less than 1.5 t (3300 lb) when fully loaded.

Implements with brakes:

- If the manufacturer does not specify a maximum transport speed, do not tow at speeds greater than 40 km/h (25 mph).
- When transporting at speeds up to 40 km/h (25 mph) the fully loaded implement must weigh less than 4.5 times the tractor weight.



- When transporting at speeds between 40—50 km/h (25—31 mph) the fully loaded implement must weigh less than 3.0 times the tractor weight.

DX,TOW1 -19-12OCT11-1/1

TS1686—UN—27SEP06

Use Caution On Slopes and Uneven Terrain

Avoid holes, ditches, and obstructions which cause the tractor to tip, especially on slopes. Avoid sharp uphill turns.

Driving forward out of a ditch, mired condition, or up a steep slope could cause tractor to tip over rearward. Back out of these situations if possible.

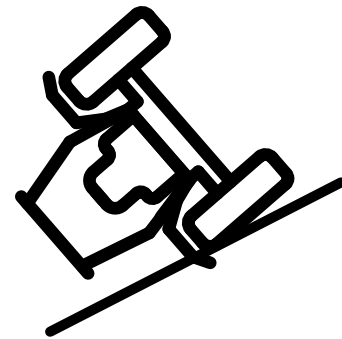
Danger of overturn increases greatly with narrow tread setting, at high speed.

Not all conditions that can cause a tractor to overturn are listed. Be alert for any situation in which stability may be compromised.

Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution

Never drive near the edge of a gully, drop-off, ditch, steep embankment, or a body of water. The machine could suddenly roll over if a wheel goes over the edge or the ground caves in

Choose a low ground speed so you will not have to stop or shift while on a slope.



Avoid starting, stopping or turning on a slope. If the tires lose traction, disengage the PTO and proceed slowly, straight down the slope.

Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.

DX,WW,SLOPE -19-12OCT11-1/1

RXA0103437—UN—01JUL09

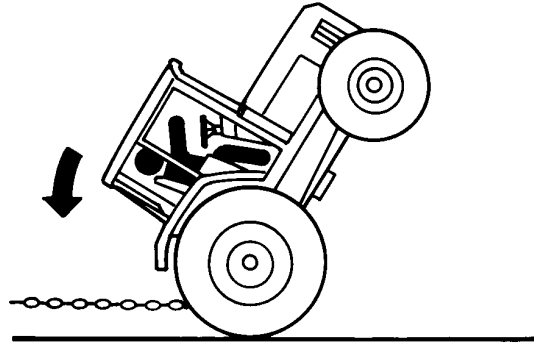
Freeing a Mired Machine

Attempting to free a mired machine can involve safety hazards such as the mired tractor tipping rearward, the towing tractor overturning, and the tow chain or tow bar (a cable is not recommended) failing and recoiling from its stretched condition.

Back your tractor out if it gets mired down in mud. Unhitch any towed implements. Dig mud from behind the rear wheels. Place boards behind the wheels to provide a solid base and try to back out slowly. If necessary, dig mud from the front of all wheels and drive slowly ahead.

If necessary to tow with another unit, use a tow bar or a long chain (a cable is not recommended). Inspect the chain for flaws. Make sure all parts of towing devices are of adequate size and strong enough to handle the load.

Always hitch to the drawbar of the towing unit. Do not hitch to the front pushbar attachment point. Before moving, clear the area of people. Apply power smoothly to take up the slack: a sudden pull could snap any towing device causing it to whip or recoil dangerously.



TS1645—UN—15SEP95

TS263—UN—23AUG88

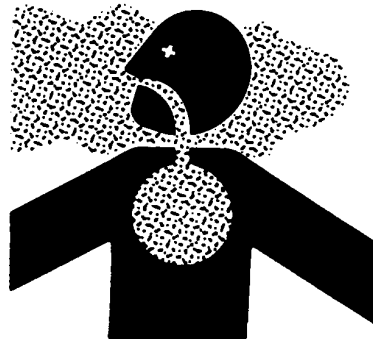
DX,MIRED -19-07JUL99-1/1

Avoid Contact with Agricultural Chemicals

This enclosed cab does not protect against inhaling vapor, aerosol or dust. If pesticide use instructions require respiratory protection, wear an appropriate respirator inside the cab.

Before leaving the cab, wear personal protective equipment as required by the pesticide use instructions. When re-entering the cab, remove protective equipment and store either outside the cab in a closed box or some other type of sealable container or inside the cab in a pesticide resistant container, such as a plastic bag.

Clean your shoes or boots to remove soil or other contaminated particles prior to entering the cab.



TS220—UN—15APR13

TS272—UN—23AUG88

DX,CABS -19-25MAR09-1/1

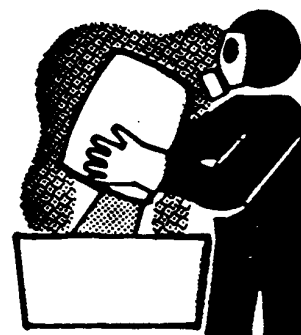
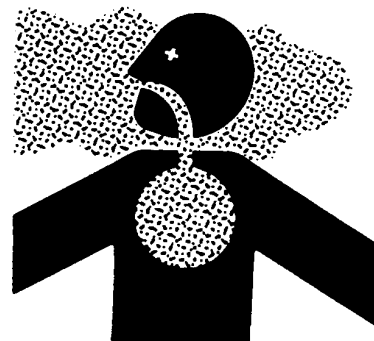
Handle Agricultural Chemicals Safely

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.



A34471

- 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 -19-24AUG10-1/1

T5220 —UN—15APR13

A34471 —UN—11OCT88

Handling Batteries Safely

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace grounded clamp last.

Sulfuric acid in battery electrolyte is poisonous and strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid hazards by:

- Filling batteries in a well-ventilated area
- Wearing eye protection and rubber gloves
- Avoiding use of air pressure to clean batteries
- Avoiding breathing fumes when electrolyte is added
- Avoiding spilling or dripping electrolyte
- Using correct battery booster or charger procedure.

If acid is spilled on skin or in eyes:

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

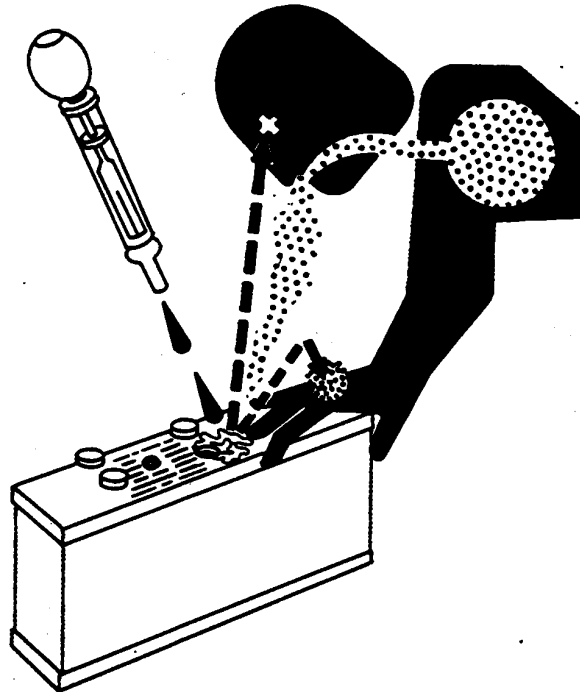
If acid is swallowed:

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

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash hands after handling.**



TS204—UN—15APR13



TS203—UN—23AUG88

DX,WW,BATTERIES -19-02DEC10-1/1

Avoid Heating Near Pressurized Fluid Lines

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



TS953—UN—15MAY90

DX,TORCH -19-10DEC04-1/1

Remove Paint Before Welding or Heating

Avoid potentially toxic fumes and dust.

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

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

Do not use a chlorinated solvent in areas where welding will take place.



Do all work in an area that is well ventilated to carry toxic fumes and dust away.

Dispose of paint and solvent properly.

DX,PAINT -19-24JUL02-1/1

TSS220—UN—15APR13

Handle Electronic Components and Brackets Safely

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 -19-24AUG10-1/1

TSS249—UN—23AUG88

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.



TS218 —JUN—23AUG88

DX,SERV -19-17FEB99-1/1

Avoid Hot Exhaust

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.



RG17488 —JUN—21AUG09

DX,EXHAUST -19-20AUG09-1/1

Clean Exhaust Filter Safely

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.

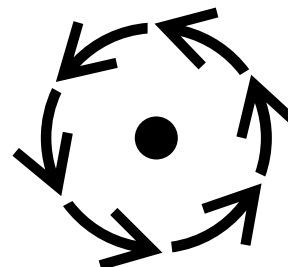
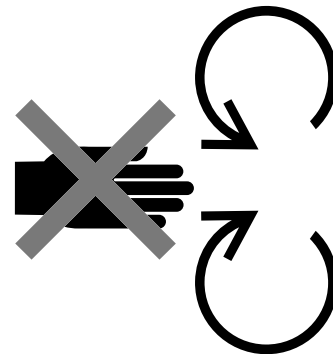
If service procedure requires engine to be running:

- 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.



STOP

TS227 —UN—15APR13

TS271 —UN—23AUG88

TS1693 —UN—09DEC09

TS1695 —UN—07DEC09

DX,EXHAUST,FILTER -19-12JAN11-1/1

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.



TS220 —UN—15APR13

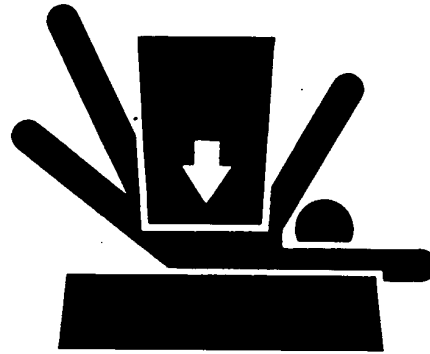
DX,AIR -19-17FEB99-1/1

Support Machine Properly

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.



TS229 —UN—23AUG88

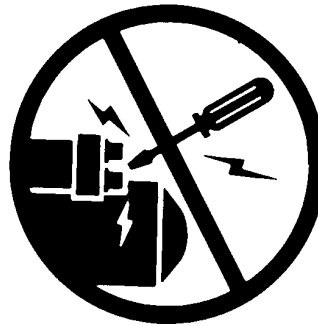
DX,LOWER -19-24FEB00-1/1

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.



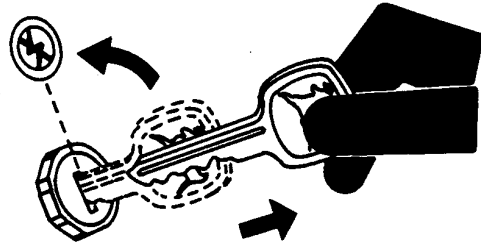
TS177 —UN—11JAN89

DX,BYPAS1 -19-29SEP98-1/1

Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



DX,PARK -19-04JUN90-1/1

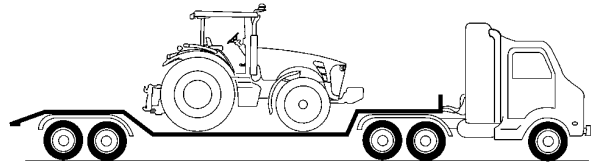
T5230 —UN—24MAY89

Transport Tractor Safely

A disabled tractor is best transported on a flatbed carrier. Use chains to secure the tractor to the carrier. The axles and tractor frame are suitable attachment points.

Before transporting the tractor on a low-loader truck or flatbed rail wagon, make sure that the hood is secured over the tractor engine and that doors, roof hatch (if equipped) and windows are properly closed.

Never tow a tractor at a speed greater than 10 km/h (6 mph). An operator must steer and brake the tractor under tow.



DX,WW,TRANSPORT -19-19AUG09-1/1

RXA0103709 —UN—01JUL09

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,WW,COOLING -19-19AUG09-1/1

T5281 —UN—15APR13

Service Accumulator Systems Safely

Escaping fluid or gas from systems with pressurized accumulators that are used in air conditioning, hydraulic, and air brake 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 pressurized system before removing accumulator.

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.



TS281—UN—15APR13

DX,WW,ACCLA2 -19-22AUG03-1/1

Service Tires Safely

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

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.

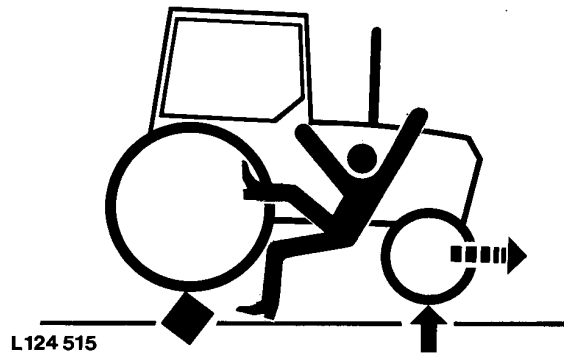


RXA0103438—UN—11JUN09

DX,WW,RIMS -19-19AUG09-1/1

Service Front-Wheel Drive Tractor Safely

When servicing front-wheel drive tractor with the rear wheels supported off the ground and rotating wheels by engine power, always support front wheels in a similar manner. Loss of electrical power or transmission hydraulic system pressure will engage the front driving wheels, pulling the rear wheels off the support if front wheels are not raised. Under these conditions, front drive wheels can engage even with switch in disengaged position.

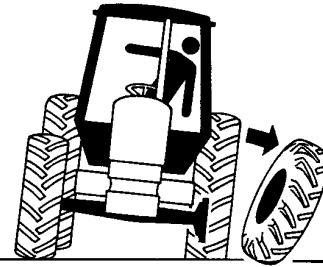


L124515—UN—06AUG94

DX,WW,MFWD -19-19AUG09-1/1

Tightening Wheel Retaining Bolts/Nuts

Torque wheel retaining bolts/nuts at the intervals specified in section Break-In Period and Service.



L124 516

L124516—UN—03JAN95

DX,WW,WHEEL -19-12OCT11-1/1

Avoid High-Pressure Fluids

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.

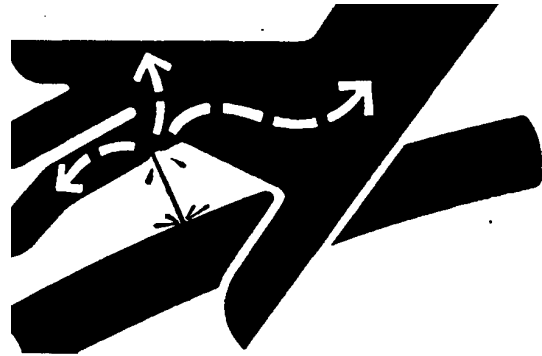
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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.

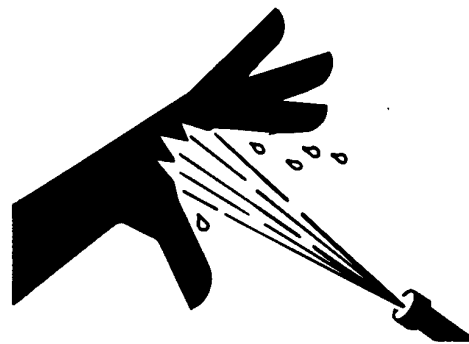
X9811—UN—23AUG88

DX,FLUID -19-12OCT11-1/1

Do Not Open High-Pressure Fuel System

High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt repair of fuel lines, sensors, or any other components between the high-pressure fuel pump and nozzles on engines with High Pressure Common Rail (HPCR) fuel system.

Only technicians familiar with this type of system can perform repairs. (See your John Deere dealer.)



TS1343—UN—18MAR92

DX,WW,HPCR1 -19-07JAN03-1/1

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.



TSS219 — JUN — 23AUG88

DX.STORE -19-03MAR93-1/1

Dispose of Waste Properly

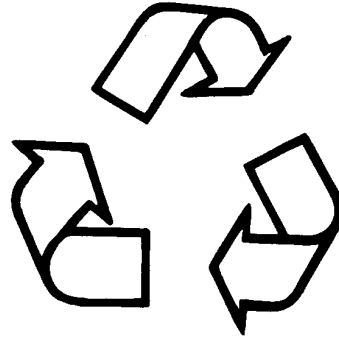
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



TSS1133 — JUN — 15APR13

DX.DRAIN -19-03MAR93-1/1

Safety Decals

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 how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown below.

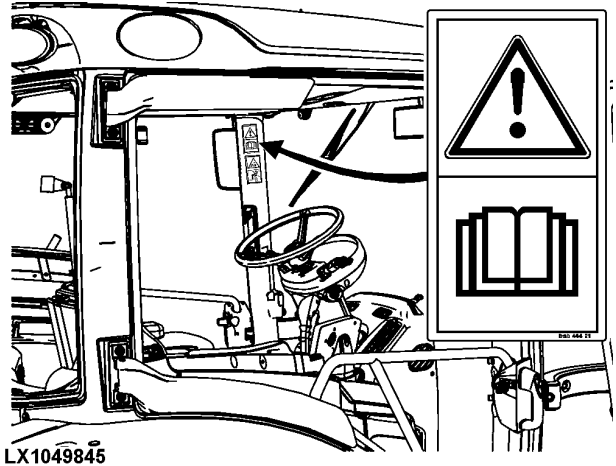


LX LABEL 002079 -19-02MAY92-1/1

TS231—19—07OCT88

Operator's Manual

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



LX1049845

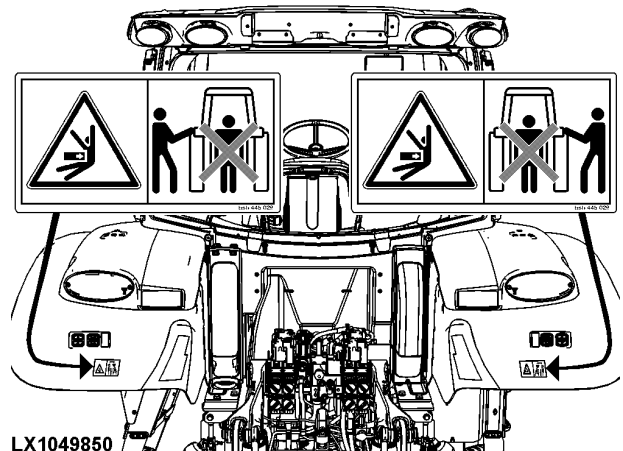
LX1049845—UN—12NOV10

OULXBER,00019D1 -19-15NOV10-1/1

Hitch Remote Control

CAUTION: When attaching or detaching an implement, there is an extreme danger of crushing in the area between the tractor and implement.

When actuating the hitch, stay clear of the area where the three-point hitch rises and do not permit anyone to be in the area.



LX1049850

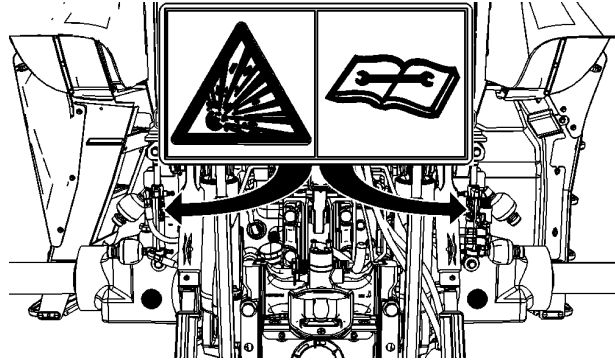
LX1049850—UN—17NOV10

OULXBER,00019DC -19-26AUG11-1/1

Cab Suspension Accumulators

⚠ CAUTION: Cylinder and accumulators are under pressure. Air, gas or fluid may escape and cause unintended motions.

Get your John Deere dealer to perform checks and repairs.



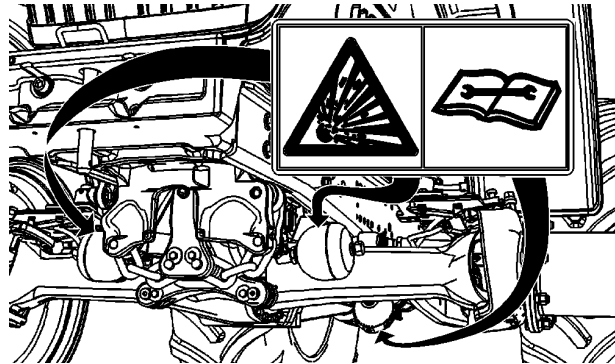
LX1054656—UN—02FEB12

OULXBER,00019D7 -19-02FEB12-1/1

Front-Axle Suspension Accumulators

⚠ CAUTION: The accumulators are under pressure. Air, gas or fluid may escape and cause unintended motions.

Get your John Deere dealer to perform checks and repairs.



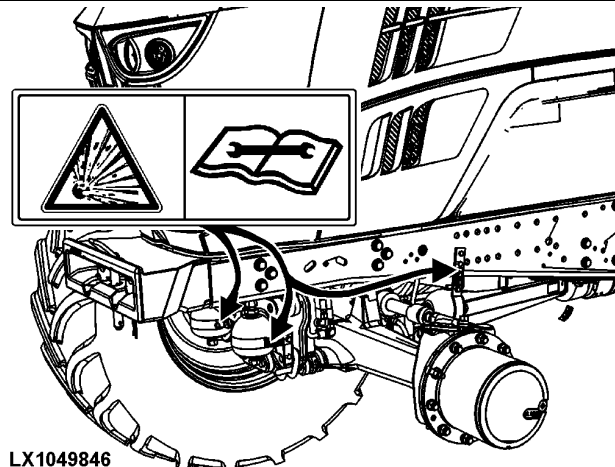
LX1054660—UN—08FEB12

OULXA64,00028EB -19-08FEB12-1/1

Front-Axle Suspension Accumulators

⚠ CAUTION: The accumulators are under pressure. Air, gas or fluid may escape and cause unintended motions.

Get your John Deere dealer to perform checks and repairs.



LX1049846

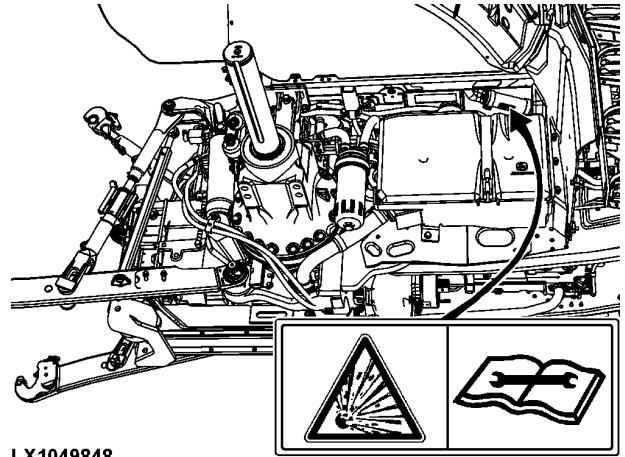
LX1049846—UN—16NOV10

OULXBER,00019D8 -19-16NOV10-1/1

Brake System Accumulator

⚠ CAUTION: The accumulator is under pressure. Air, gas or fluid may escape and cause unintended motions.

Get your John Deere dealer to perform checks and repairs.



LX1049848

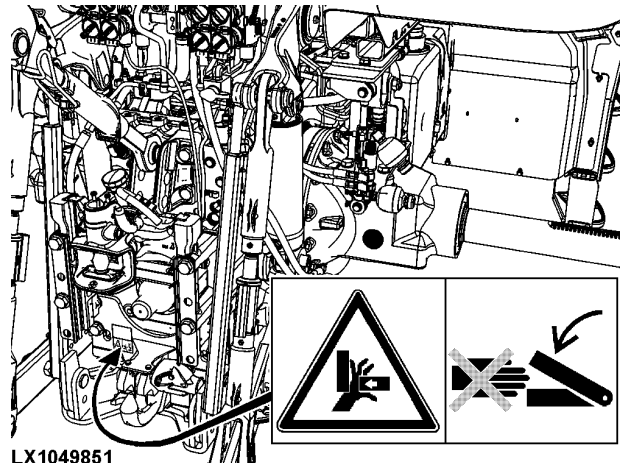
OULXBER,00019DA -19-04OCT12-1/1

LX1049848 —UN—16NOV10

Pick-Up Hitch

⚠ CAUTION: If used improperly, there is a serious danger of pick-up hitch components causing injury.

With hitch lowered, **NEVER** put your hand in the mounting frame or the opening of the pick-up hitch.



LX1049851

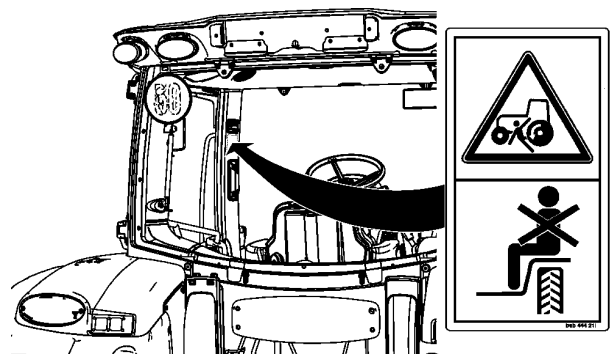
OULXBER,00019D5 -19-26AUG11-1/1

LX1049851 —UN—17NOV10

Never Carry Riders (China Only)

⚠ CAUTION: Riders could fall off and be seriously injured or killed.

Riders are permitted only on a properly installed passenger seat that has been checked and approved by John Deere.



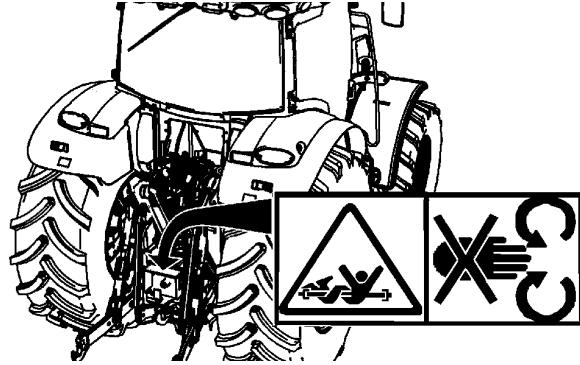
OULXA64,000289D -19-30NOV11-1/1

LX1050015 —UN—26AUG11

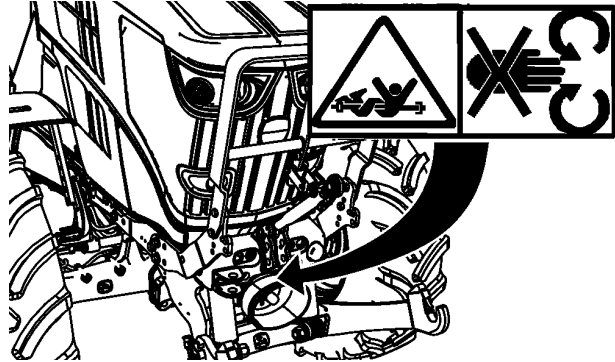
PTOs and Rotating Components of Implements (China Only)

⚠ CAUTION: Never touch rotating components - danger of death.

Shut off the engine and wait until all components have stopped turning.



Rear PTO



Front PTO (if equipped)

LX1050012 —UN—24AUG11

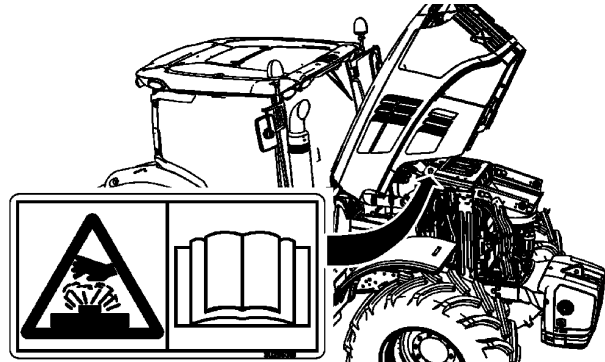
LX1050013 —UN—24AUG11

OULXBER.0001AB9 -19-26AUG11-1/1

Engine Cooling System (China Only)

⚠ CAUTION: Danger of scalding due to coolant under high pressure. Before removing the cap, allow sufficient time for the cooling system to cool down and for pressure to drop.

Shut off the engine, open the hood and wait until the cooling system has cooled down. Do not open the cap unless the hoses of the cooling system are cool enough to be touched with your bare hand. First open the cap only far enough to allow the pressure to drop, then unscrew it completely.



LX1050011 —UN—24AUG11

OULXBER.0001AB8 -19-26AUG11-1/1

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