

655, 755, 855, and 955 Tractors

(Serial No.010,001-)

John Deere Horicon Works
OMM92614 Issue H9
**(Mark old manual M75873 for
machines up to Serial No. 615,001)**

LITHO IN U.S.A.
ENGLISH

Introduction

THANK YOU for purchasing a John Deere product.

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 SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are U.S. customary units and their metric equivalents.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.

WRITE IDENTIFICATION NUMBERS in the Specifications 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. If this manual is kept on the

machine, also file the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

THE TIRE MANUFACTURER'S warranty supplied with your machine may not apply outside the U.S.



M39547
-UN-29AUG88

Contents

	Page		Page
Safety	1	Using Drawbar Hitch	45
Controls	11	Using 3-Point Hitch	46
Prestarting Checks	15	Transporting	
Operating the Engine		Transporting Tractor on a Trailer	49
Starting Engine	16	Fuels and Lubricants	
Engine Warm-Up	18	Fuel Specifications	50
Engine Idling	18	Fuel Storage	50
Cold Weather Starting	18	Do Not Use Galvanized Containers	51
Stopping the Engine	18	Filling the Fuel Tank	51
Driving the Tractor		Hydraulic Transmission Oil	52
Operator Training Required	21	Diesel Engine Oil	52
Operating on Slopes	21	Gear Case Oil	53
Adjusting Seat	21	General Purpose Grease	53
Using Seat Belt	22	Alternative Lubricants	54
Driving the Tractor	22	Lubricant Storage	54
Using Cruise Control	24	Troubleshooting	
Operating Differential Lock	24	Engine	55
Using Turn Brake Pedals	25	Electrical	58
Operating Optional Front Wheel Drive	25	Tractor	59
Using PTO (Power-Take-Off)	26	Brakes	59
Using Stationary Rear PTO (Operator off		Steering	59
Seat)	27	Service	
Using Rockshaft Control Lever	28	Additional Service Information	60
Using Speed of Drop/Lock Valve	29	Hour Meter/Tachometer	60
Using Optional (SCV) Selective Control		Removing and Installing Engine Shields	60
Valve	29	Service Interval Chart	62
Using Lights	30	Service/Break-In	
Using Mower Depth Control	30	Engine Break-In	63
Stopping Tractor	31	Tractor Break-In	64
Indicator Lights	32	Service/10-Hours or Daily	
Using Rear Weights	33	Checking Engine Oil Level	65
Rear Wheel Weights—Cast Iron	33	Hydraulic Oil Level	66
Using Front Weights	34	Checking Coolant Level	67
Using Liquid Ballast	34		
Selecting Tire Tread Width	35		
Adjusting Wheel Spacing	44		

Continued on next page

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

OMM92614 H9-19-22DEC89

COPYRIGHT© 1988
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION™ Manual
Previous Editions
Copyright 1987, 1986 Deere & Company

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

Contents

Page	Page
Cleaning Grille and Radiator Screen	67
Cleaning Grille and Radiator Screen	69
Checking Sediment Bowl	69
Safety Interlock System Checkout Procedure	70
Lubricating Grease Fittings	72
Service/50-Hours or Weekly	
Checking Wheel Bolt Torque	73
Checking MFWD Oil Level	73
Checking Battery Electrolyte Level	74
Checking Tire Pressure	76
Lubricating MFWD Tractor Grease Fittings	77
Lubricating Standard Tractor Grease Fittings	78
Service/200-Hours	
Changing Engine Oil and Filter	79
Cleaning the Air Cleaner	81
Removing Element on 655 and 755 Tractors	81
Removing Element on 855 and 955 Tractors	82
Cleaning Dusty Element	83
Cleaning Oily or Sooty Element	84
Inspecting Element	84
Checking Fan Belt Tension	85
Lubricating 3-Point Hitch	85
Cleaning Fuel Filter Sediment Bowl	86
Cleaning Oil Cooler and Radiator Cooling Fins	87
Service/500 Hours	
Changing Hydraulic Oil and Filter	88
Changing MFWD Oil	90
Repacking Front Wheel Bearings	93
Checking Engine Speeds	96
Tightening Hose Clamps	97
Replacing Fuel Filter	97
Service/Every 2 Years	
Draining, Flushing, And Filling Cooling System	98
Replacing Thermostat	101
Service/As Necessary	
Cleaning Air Cleaner	102
Bleeding Fuel System on 655 and 755 Tractors	102
Bleeding Fuel System on 855 and 955 Tractors	103
Cleaning or Replacing Battery on 655 and 755 Tractors	104
Cleaning or Replacing Battery on 855 and 955 Tractors	105
Adjusting Throttle	107
Replacing Fuses	107
Replacing Indicator Light Bulb	107
Replacing Hood Headlight Bulb	108
Replacing Fender Headlight	108
Replacing Taillight Bulb	109
Replacing Warning Light Bulb	109
Lubricating Seat Slide Rails	110
Lubricating Depth Control	110
Adjusting Toe-In	111
Do Not Change Injection Pump	112
Storage	113
Attachments	115
Crime Prevention Tips	116
Assembly	119
Specifications	130
Index	

Safety

RECOGNIZE SAFETY INFORMATION

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

Follow recommended precautions and safe operating practices.



O53,ALERT -19-16JUN87

T81389 -UN-07DEC88

UNDERSTAND SIGNAL WORDS

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

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



O53,SIGNAL -19-07OCT85

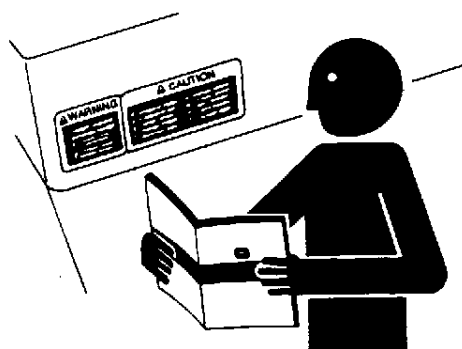
TS187 -19-30SEP88

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.

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.

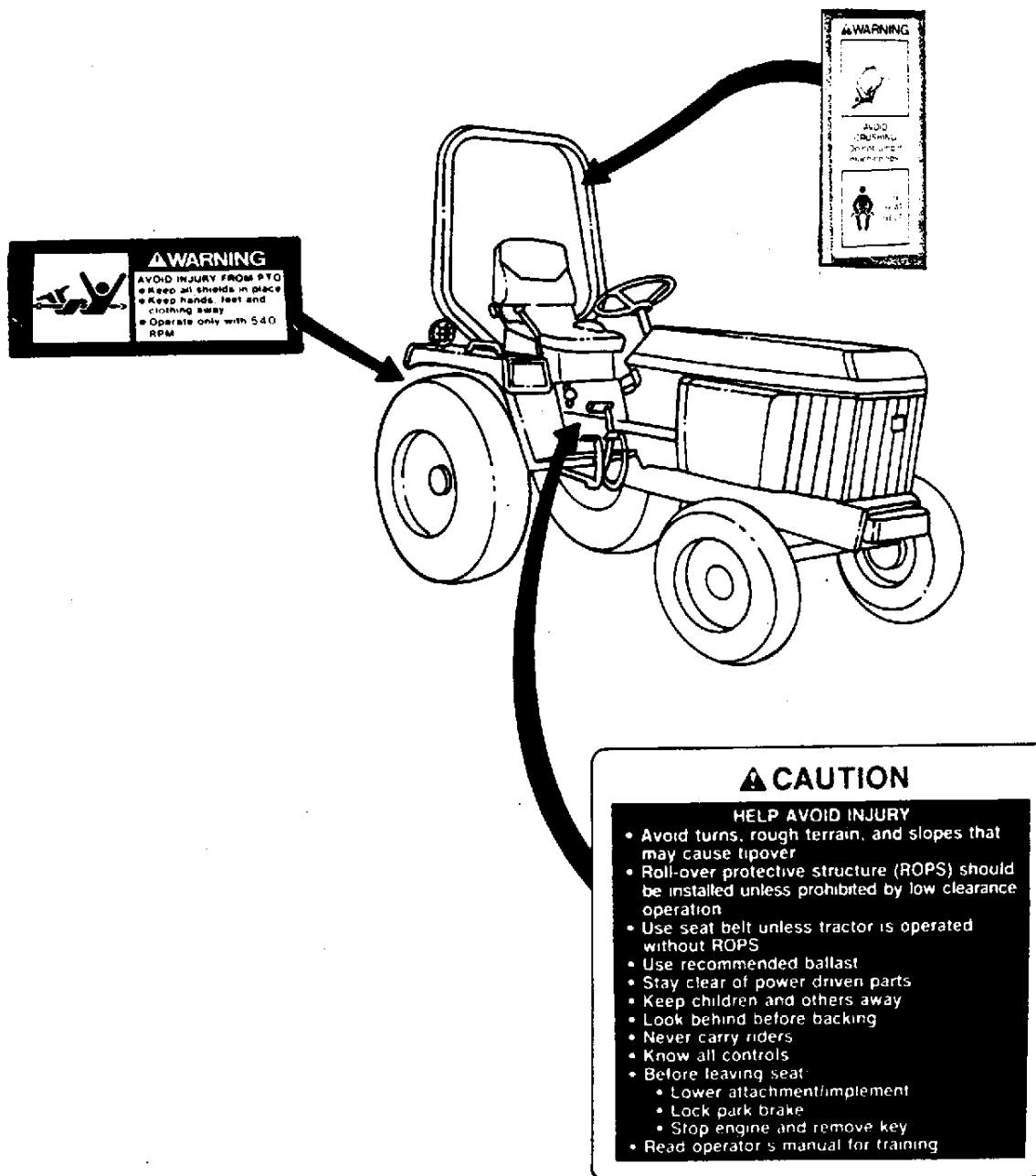


O53,READ -19-23APR87

TS201 -UN-23AUG88



OBSERVE SAFETY SIGNS



M62013 -19-13MAR89

MX,SAY,A1 -19-04JAN89



PRACTICE SAFE MAINTENANCE

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

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

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

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

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



O53,SERV -19-21DEC87

TS218 -UN-23AUG88

STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death.

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

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



O53,PTO -19-16JUN87

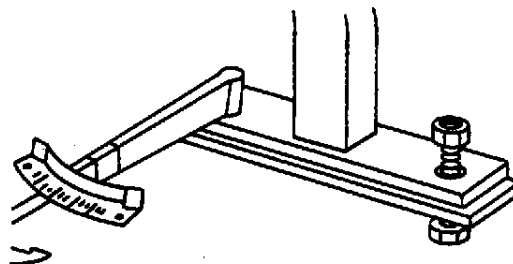
TS198 -UN-23AUG88



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.



O53,ROPS3 -19-23APR87

TS212 -UN-23AUG88

PROTECT CHILDREN

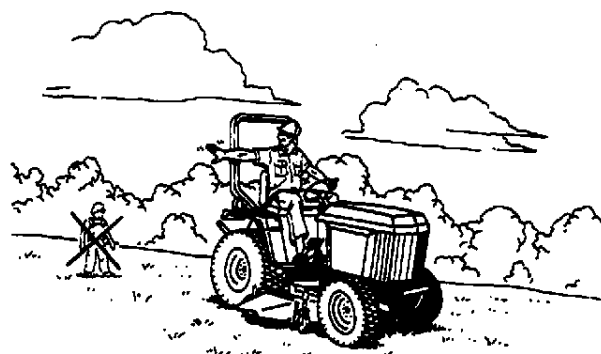
Keep children and others away when you operate machine.

BEFORE YOU BACK UP:

- Stop the PTO
- Look behind tractor for children

Do not let children operate tractor.

Do not let children ride on tractor or any implement.



MX,SAY,C -19-07NOV88

M39679 -UN-08SEP88



AVOID TIPPING

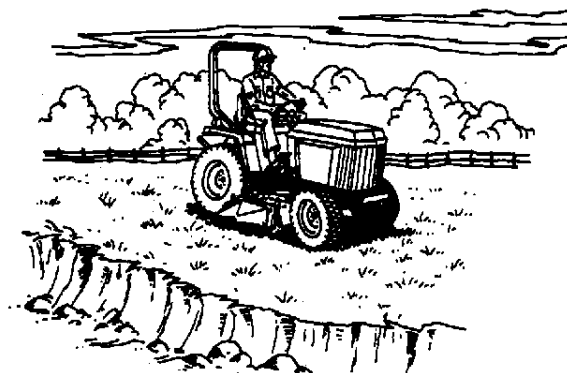
Do not drive where machine could slip or tip.

Stay alert for holes, rocks, and roots in the terrain, and other hidden hazards. Keep away from drop-offs.

Slow down before you make a sharp turn.

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

Use care when pulling loads or using heavy equipment. Use counterweights or wheel weights suggested in this operator's manual.



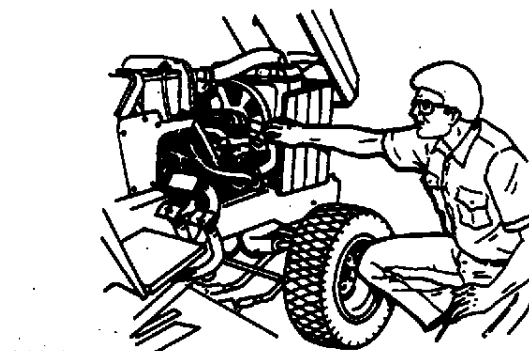
MX,SAY,D -19-07NOV88

M39680 -UN-09SEP88

Before working on any part of the engine, stop the engine, and let it cool down. Hot engine components can burn skin on contact.

Never run engine unless park brake is engaged.

Be careful to prevent clothing, jewelry, or long hair from getting caught in the fan blades, drive belts, or any other moving engine parts.



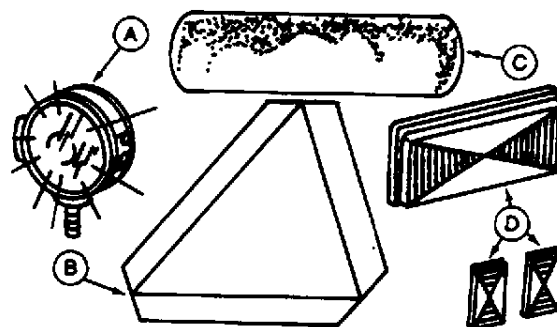
MX,SAY,E -19-07NOV88

M39683 -UN-09SEP88

USE SAFETY LIGHTS AND DEVICES

Use of flashing warning lights and turn signals are recommended when towing this equipment on public roads unless prohibited by state or local regulations. An implement safety lighting kit is available from your John Deere dealer.

Keep safety items in good condition. Replace missing or damaged items.



- A—Lights
- B—Slow Moving Vehicle Emblem
- C—Reflector Tape
- D—Reflectors

O53,FLASH -19-11OCT85

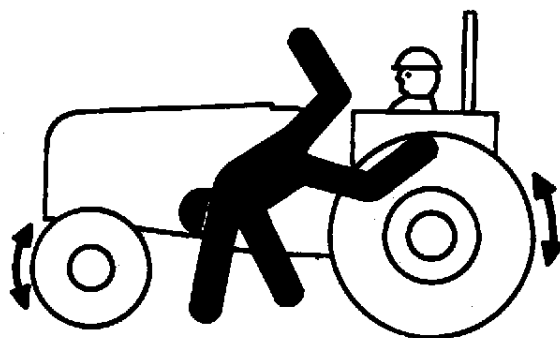
N36564 -UN-10FEB89



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.



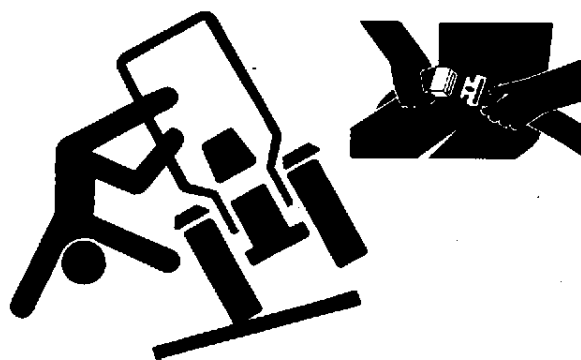
O53,RIDER -19-03MAY88

TS290 -UN-23AUG88

USE SEAT BELT PROPERLY

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

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



O53,ROPS1 -19-23APR87

TS205 -UN-23AUG88



SERVICE TIRES SAFELY

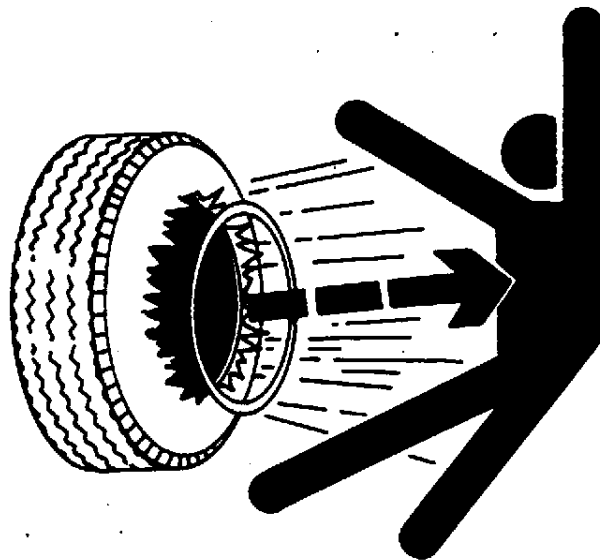
CAUTION: Explosive separation of a tire and rim parts can cause serious injury or death.

Only attempt to mount a tire if you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified repair service.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

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.

Inspect tires and wheels daily. Do not operate with low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



-UN-23AUG88

TS211



-UN-25AUG88

M34163

MX,SAY,F -19-07NOV88

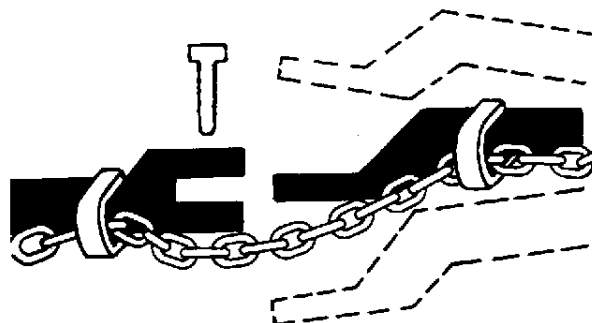


USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



O53,CHAIN -19-17DEC87

TS217 -UN-23AUG88

HANDLE FUEL SAFELY—AVOID FIRES

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

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

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



O53,FIRE1 -19-23APR87

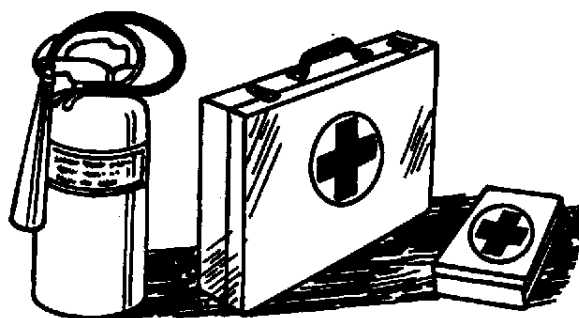
TS202 -UN-23AUG88

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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



O53,FIRE2 -19-03MAR88

TS291 -UN-23AUG88



Suggest:

If the above button click is invalid.

Please download this document first, and then click the above link to download the complete manual.

Thank you so much for reading



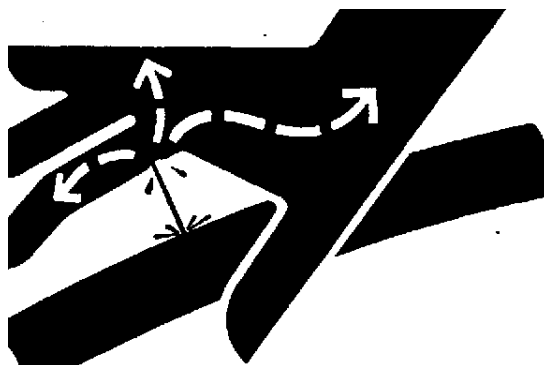
AVOID HIGH-PRESSURE FLUIDS

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

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

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

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.



X9811 -UN-23AUG88

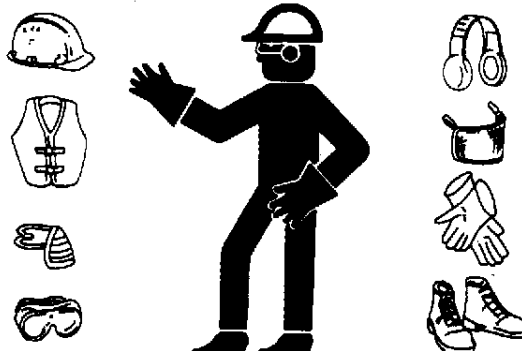
O53,FLUID -19-01DEC88

WEAR PROTECTIVE CLOTHING

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

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

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



TS206 -UN-23AUG88

O53,WEAR -19-23APR87

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>