

# 146 Farm Loader



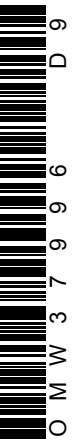
## OPERATORS MANUAL

### 146 Farm Loader

OMW37996 Issue D9 English

**John Deere Welland Works**  
**OMW37996 Issue D9**  
(This manual replaces OMW37996 G7)

LITHO IN U.S.A.  
ENGLISH



# Introduction

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.

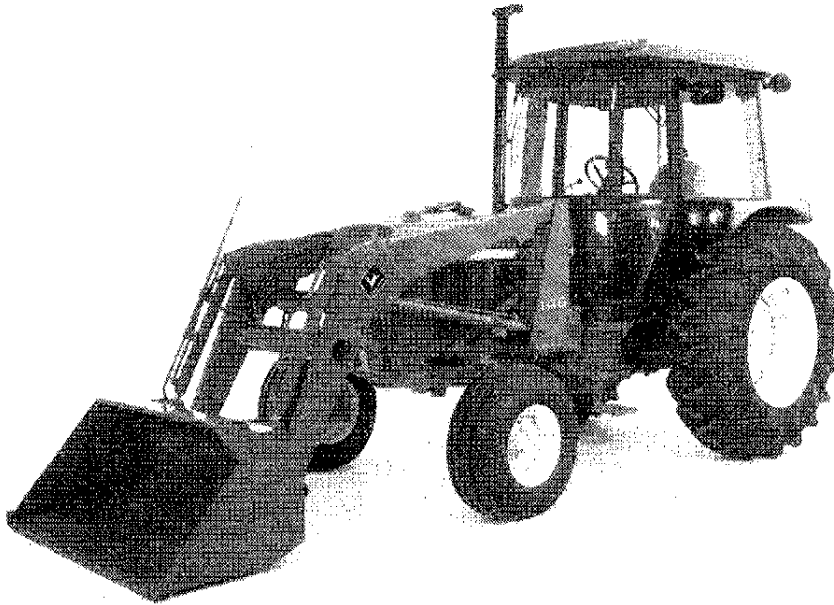
THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

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

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

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.

WRITE PRODUCT 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.



-UN-06OCT88

W11801

# Checklists

## DELIVERY

The following list is a reminder of important information that should be explained to the customer.

- Safe operation and service.
- Loader controls and operation.
- Lubrication.

- Give the customer the operator's manual. Encourage the customer to read it.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

W01,5PD,B -19-24NOV86

## AFTER-SALE

The following items should be checked sometime during the first six months of loader operation. Check off each item as found satisfactory or correction is made.

- Check for loose or missing hardware. Mounting frame hardware is tightened to correct torque.
- Check for broken or missing parts. Repair as necessary.
- Hydraulic hoses and connections do not leak.
- Transmission/hydraulic oil level is correct.

- If possible, operate the loader. Loader should respond correctly to controls.

- All decals are fastened and legible.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

W01,5PD,C -19-24NOV86

*Checklists*

**OWNER REGISTER**

Name \_\_\_\_\_ Model \_\_\_\_\_  
Address \_\_\_\_\_ Serial Number \_\_\_\_\_  
City \_\_\_\_\_ Date Sold \_\_\_\_\_  
State/Prov \_\_\_\_\_ Mail Code \_\_\_\_\_

W01,12PD,C -19-22DEC86

# Contents

	Page		Page
<b>Safety</b> .....	05-1	Check Loader Operation .....	25-4
<b>Preparing The Tractor</b>		<b>Transporting</b> .....	30-1
Approved Tractors .....	10-1	<b>Operating The Loader</b>	
Approved Front Tires .....	10-2	Preoperating Check .....	35-1
Inflating Front Tires .....	10-3	Understanding Round Bale Handling	
Checking Front Wheel Hardware .....	10-3	Hazards .....	35-2
Removing Front Weights .....	10-3	Avoiding Tractor Roll-Over When	
Selecting Front Tread .....	10-4	Handling Round Bales .....	35-2
Selecting Rear Tread .....	10-4	Carrying Round Bales .....	35-3
Adding Rear Ballast .....	10-5	Lift Capacity Of Loader With Bale Fork .....	35-3
Locking Out PTO Clutch .....	10-7	Lift Capacity Of Loader With Grapple .....	35-4
Operating With RCCV .....	10-7	Removing Material From A Pile .....	35-4
Setting Hydraulic Speed .....	10-8	Loading Operation .....	35-5
Installing RCCV Lockout Stops .....	10-8	Leveling And Scraping .....	35-5
Operating With ICV .....	10-9	Leveling In Reverse .....	35-6
<b>Controls</b>		Digging .....	35-6
Using Float .....	15-1	Backfilling .....	35-7
Using RCCV Lockout .....	15-1	<b>Attachments</b>	
Operating Loader With RCCV .....	15-2	Installing Attachments .....	40-1
Operating Loader With ICV .....	15-2	Materials Bucket .....	40-1
Using Regenerative Dump Position .....	15-3	Installing Side Cutting Edges .....	40-1
Using Control Lever Lock .....	15-4	Attaching Bucket Tines .....	40-2
Relieving Hydraulic Pressure ICV		Installing Extension .....	40-2
Loader Attached .....	15-4	Installing Bucket Level Indicator .....	40-3
Loader Not Attached .....	15-4	Forklift .....	40-4
<b>Detaching The Loader</b>		Round Bale Grapple .....	40-4
Prepare To Detach The Loader .....	20-1	Silage Grapple .....	40-4
Relieving Hydraulic Pressure RCCV .....	20-1	Round Bale Fork .....	40-5
Disconnecting Hoses RCCV .....	20-1	<b>Lubrication And Maintenance</b>	
Relieving Hydraulic Pressure ICV .....	20-2	Selecting Grease .....	50-2
Disconnecting Hoses ICV .....	20-3	Lubricating Loader .....	50-3
Detaching The Loader .....	20-3	Checking Transmission/Hydraulic Oil	
<b>Attaching The Loader</b>		Level .....	50-3
Attach Loader .....	25-1	Tightening Mounting Frame Hardware .....	50-4
Relieving Hydraulic Pressure RCCV .....	25-2	<b>Troubleshooting</b> .....	55-1
Connecting Hoses RCCV .....	25-3	<b>Service</b>	
Relieving Hydraulic Pressure ICV .....	25-3		
Connecting Hoses ICV .....	25-4		

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.*

COPYRIGHT® 1989  
DEERE & COMPANY  
Moline, Illinois  
All rights reserved  
A John Deere ILLUSTRATION™ Manual  
Previous Editions  
Copyright® 1987, 1986, 1985, 1980, 1977 Deere & Company

## Contents

	<b>Page</b>
Replace Finger Guards . . . . .	60-1
Checking Bolt Torque . . . . .	60-2
Tightening Hydraulic Fittings . . . . .	60-3
Tightening O-Ring Fittings . . . . .	60-4
Tightening Flare Type Tube Fittings . . . . .	60-5
Tightening Flare Type Hose Fittings . . . . .	60-6
Changing Control Lever Position . . . . .	60-7
Identifying Hose Connection	
Tractor With Poppet-Type RCCV . . . . .	60-8
Tractor With Spool-Type RCCV . . . . .	60-9
Loader With ICV . . . . .	60-10
Servicing Tractor Air Intake Filter . . . . .	60-12
<b>Storage . . . . .</b>	<b>65-1</b>
<b>Crime Prevention . . . . .</b>	<b>70-1</b>
<b>Specifications . . . . .</b>	<b>75-1</b>

# 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

TS1389 -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.



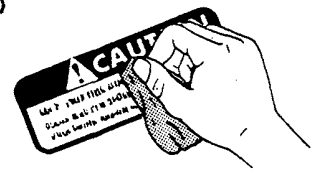
O53,SIGNAL -19-07OCT85

TS187 -19-30SEP88

## FOLLOW SAFETY INSTRUCTION

Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

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



O53,SIGNS -19-07OCT85

TS188 -UN-17JAN89

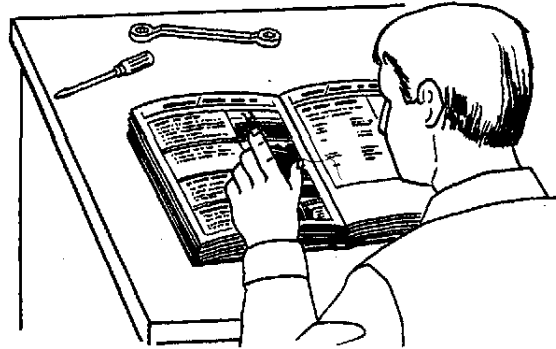


## LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



O53,READ2 -19-08JUL85

-UN-23AUG88

TS183

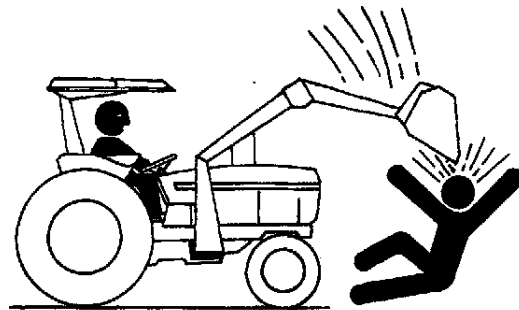
## PROTECT PEOPLE AND ANIMALS

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

Be sure that people, livestock, or pets are not standing near the machine while operating.

Do not use the loader for a work platform.

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



WX158,OM,A -19-28MAR89

-UN-05OCT88

W14235

## OPERATE CONTROLS SAFELY

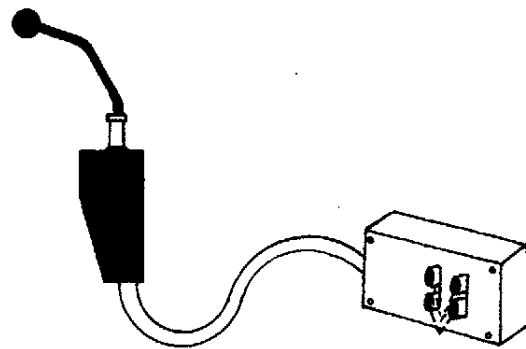
Become familiar with controls.

Be sure anyone operating the loader is aware of safe operation and potential hazards.

Operate loader from operator's seat only. Remain at controls until operating cycle is complete.

Stop loader gradually when lowering or lifting loads.

To help prevent loss of control, do not use "FLOAT" position to lower loader.



WX158,OM,B -19-21MAR89

-UN-06OCT88

W11377





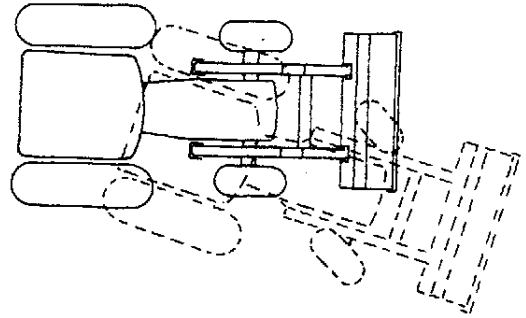
## OPERATE LOADER SAFELY

Improper use of loader can cause serious injury or death.

Use particular care when working on inclines and hillsides.

Avoid holes, ditches, and obstructions which may cause tractor/loader to tip.

Allow for additional length of loader on tractor while turning.



WX158,OM,C -19-21MAR89

W11378 -JUN-06OCT88

## CARRY MATERIALS SAFELY

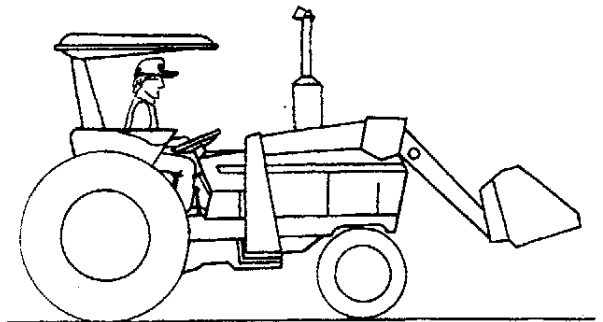
Do not exceed lift capacity of loader.

Carry load low at all times.

Avoid handling loose or shiftable loads.

Reduce tractor ground speed when traveling over rough ground or when making turns.

Drive slowly through gates and doors.

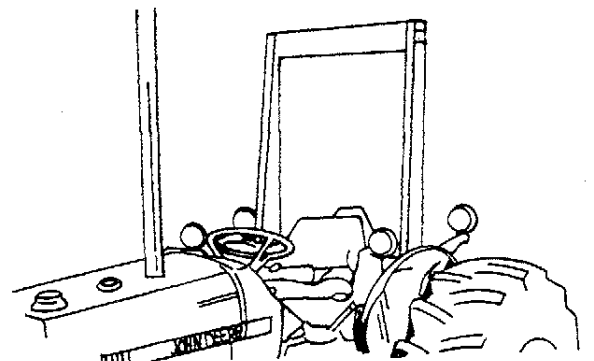


WX158,OM,D -19-21MAR89

W11580 -JUN-06OCT88

## USE ROLL-OVER PROTECTIVE STRUCTURE (ROPS)

To help prevent personal injury or death caused by tractor roll-over, be sure tractor is equipped with roll-over protective structure (ROPS) and use approved seat belt. In addition, add rear ballast recommended.



WX158,OM,E -19-21MAR89

W11507 -JUN-06OCT88

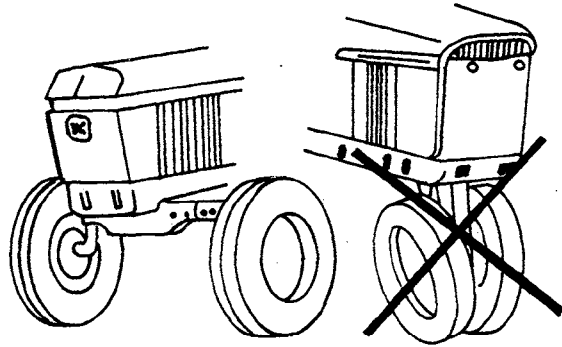


## HELP PREVENT ROLL-OVERS

Do not use tractor with Roll-O-Matic front end, single, or double front wheels.

Use recommended rear ballast for stability.

Use widest rear wheel tread setting to maximize stability.



WX158,OM,F -19-21MAR89

-JUN-06OCT88

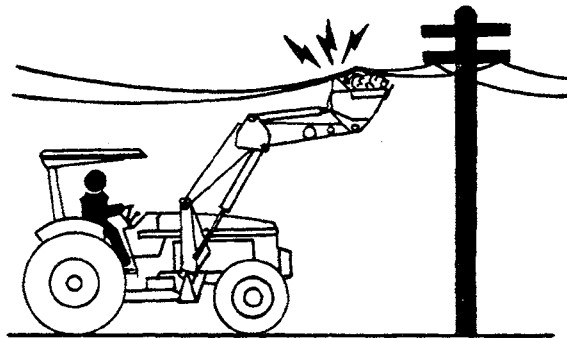
W11379

## AVOID POWER LINES

Serious injury or death can result from contact with electric lines. Use care to avoid contact with electric lines when moving or operating the loader.

Beware of lift clearance when raising loader to maximum height.

Do not dismount from tractor if any component is in contact with lines.



WX,80,SY,H -19-01FEB89

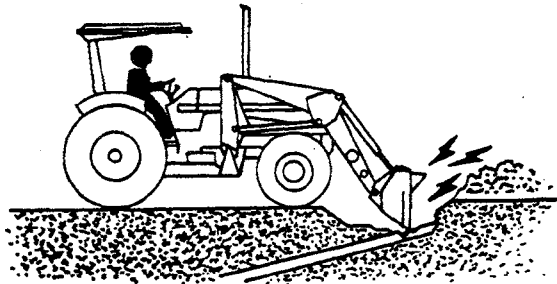
-JUN-02FEB89

W14321

## DIG SAFELY

Before digging, check location of cables, gas lines and water lines.

Do not dismount from tractor if any component is in contact with electrical lines.



WX,80,SY,I -19-01FEB89

-JUN-02FEB89

W14322

## DETACH LOADER SAFELY

Detach the loader on a hard, level surface.

Before disconnecting hydraulic hoses, relieve all hydraulic pressure.



WX,80,SY,J -19-01FEB89

-JUN-05OCT88

W14000



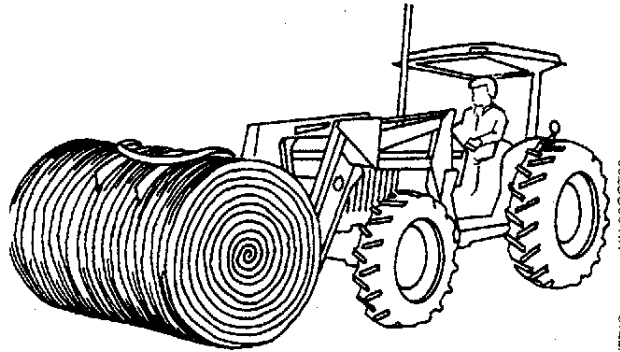
## HANDLE ROUND BALES SAFELY

To help prevent personal injury, do not handle round bales without approved John Deere Round Bale Handling attachments.

Improper use of loaders to handle round bales can result in serious injury or death to the tractor/loader operator. This could be caused by the bale rolling back down the loader into the operator's station.

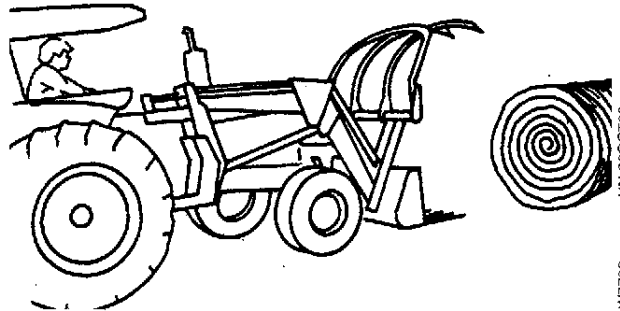
To attain optimum stability and visibility:

- do not handle bales that exceed the bale weight limitations of the loader
- carry the bale slowly and as low as possible to the ground
- operate the loader controls smoothly, avoiding jerky operation
- when handling round bales on a slope, always approach the bale with the tractor facing uphill
- never use the tractor/loader to stop a rolling bale



-JUN-06/OCT-88

W7716



-JUN-06/OCT-88

W7792

WX158.OM.I -19-21MAR89



## HANDLING ROUND BALES WITH BALE FORK

Handling round bales can be hazardous, always use proper equipment. Follow the instructions in the OPERATING THE LOADER section of this manual. Also, read the decals attached to both the loader and the round bale fork.

DO NOT handle round bales with a loader unless the specially designed John Deere round bale fork is installed. Without the fork, the bale can fall on the operator when the loader is raised.

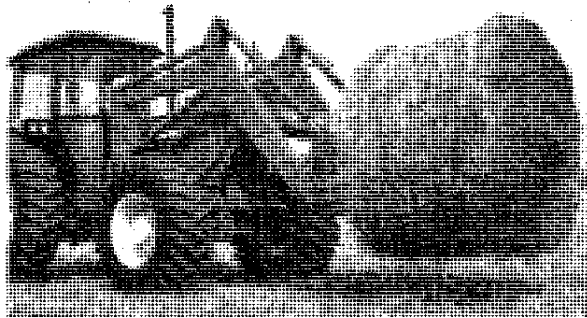
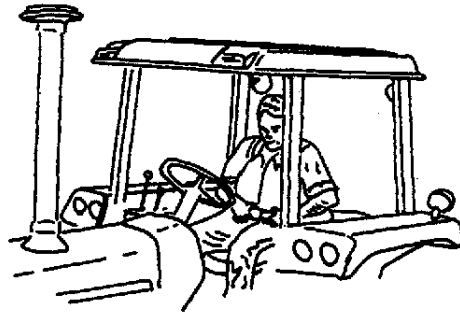
To help prevent handling and stability problems:

—DO NOT exceed the following round bale weight limitations:

JD 100	450 kg (1000 lb)
JD 146/3 cyl tractor	
JD 175	
JD 146/4 cyl tractor	680 kg (1500 lb)
JD 245	
JD 148	900 kg (2000 lb)
JD 158	
JD 260	
JD 265	
JD 280	

—Equip the tractor with a roll-over protective structure (ROPS).

—Adjust rear tread width and add specified rear ballast per wheel. See Selecting Rear Tread and Adding Rear Ballast in Preparing the Tractor section.



-UN-05DCT88

W18190

-UN-05DCT88

W12361



## HANDLING ROUND BALES WITH GRAPPLE

Handling round bales can be hazardous, always use proper equipment. Follow the instructions in the OPERATING THE GRAPPLE section of this manual.

DO NOT handle round bales with a loader unless a specially designed John Deere Round Bale/Silage Grapple is installed. Without a grapple, the bale can fall on the operator when the loader is raised.

To help prevent handling and stability problems:

—DO NOT exceed the following round bale weight limitations:

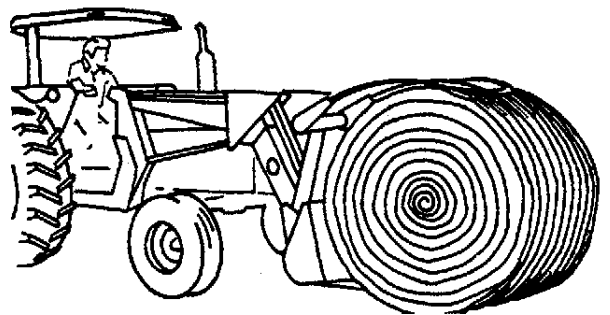
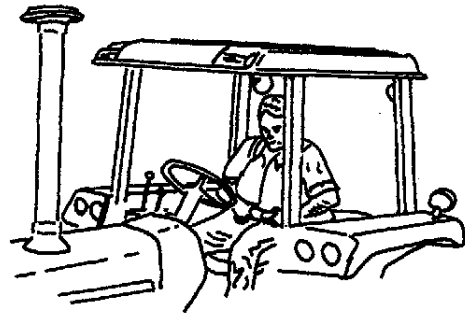
JD 146                                    450 kg (1000 lb)

JD 148                                    900 kg (2000 lb)

JD 158

—Equip the tractor with a roll-over protective structure (ROPS).

—Adjust rear tread width and add specified rear ballast per wheel. See Selecting Rear Tread and Adding Rear Ballast in Preparing the Tractor section in your loader operator's manual.



WX158,OM,K -19-21MAR89

-UN-05OCT88

W13130

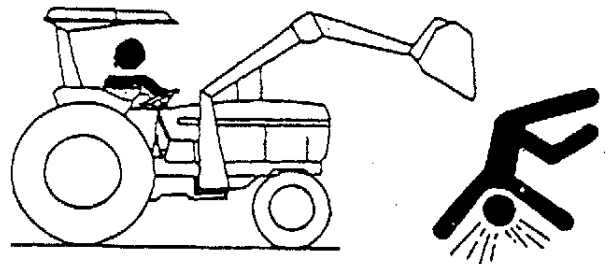
-UN-06OCT88

W7799

## 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.



WX,80,SY,B -19-04JAN89

-UN-19JAN89

W14766

**Buy Now**



Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)