

**390**  
**Front Blade**  
**For 870, 970 and**  
**1070 Tractors**

**John Deere Horicon Works**  
**OMM79627 Issue C9**

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.

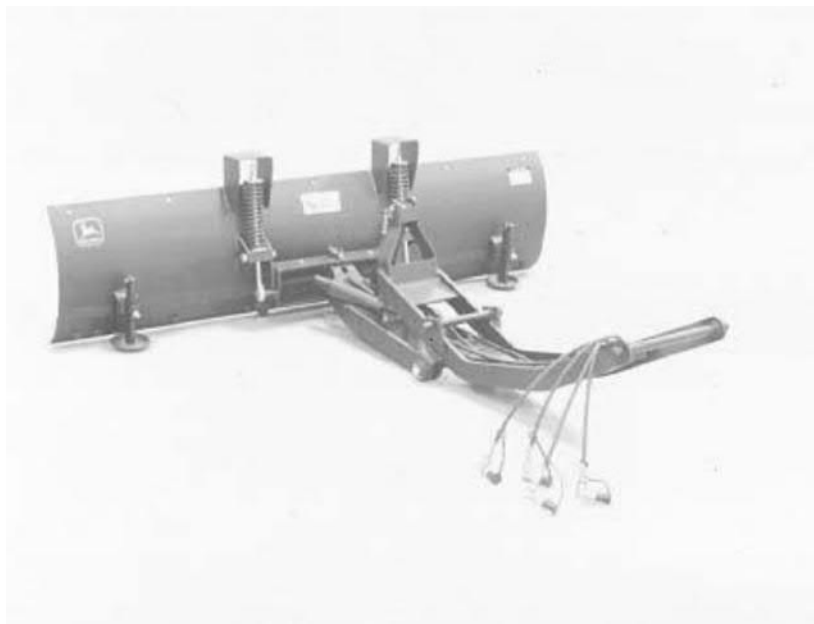
RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

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.



M61917  
-JUN-22DEC88

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*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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A John Deere ILLUSTRATION™ Manual

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# 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

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## 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

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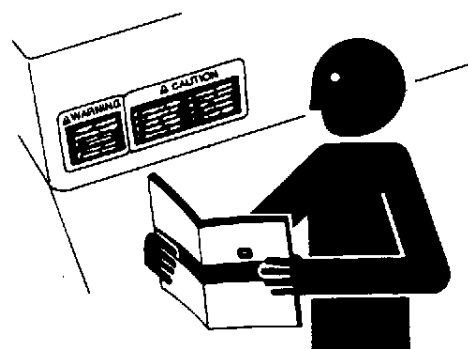
TS187

## 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

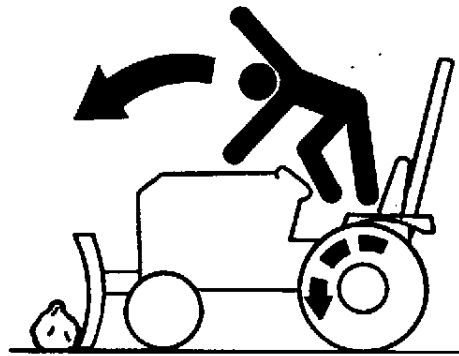
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# P

## AVOID INJURY FROM HITTING OBSTRUCTION

1. Use seat belt.
2. Keep blade in unlocked position.
3. Raise blade before you drive between jobs.
4. Do not use high speed travel.



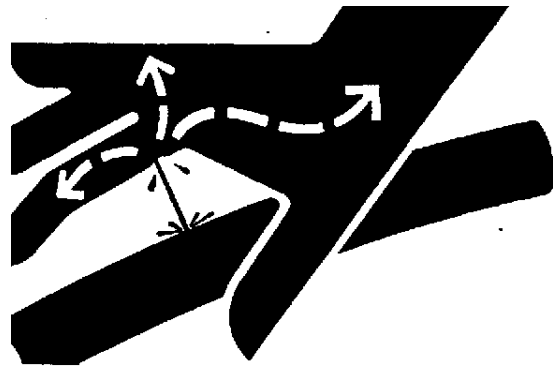
MX,SACKD -19-08NOV88

M61812 -UN-04NOV88

## AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before unhooking hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard to search for leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



O53,FLUID -19-18SEP87

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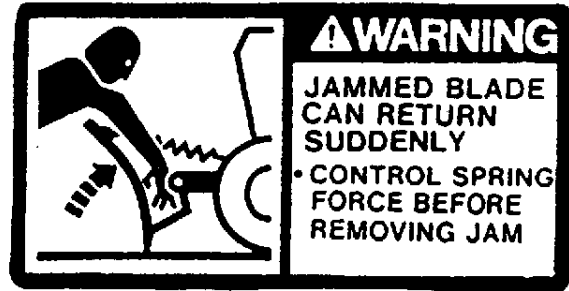
## N SAFETY TIPS

1. Allow only operator on tractor. Keep riders off.
2. Avoid tipping:
  - Do not use blade near edge of ditch or bank.
  - Avoid holes, rocks or roots.
  - Slow down before you make turns.
  - Drive up and down—not across—slopes.
3. Use blade safely:
  - Avoid parking on slopes.
  - Install chains and correct rear weights on your tractor.
  - Use safe tool to pry objects from tripped blade.
  - Stop tractor before you adjust blade.
  - Lower blade to ground before you work on blade.
  - Do not use blade as battering ram.
  - Do not run tractor at high speed.

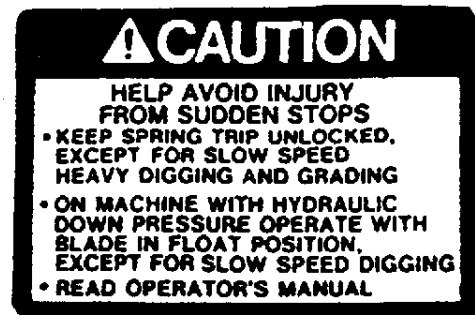
MX,SACKF -19-08NOV88

## READ SAFETY SIGNS

Read and follow all safety signs on your machine. Keep safety signs in good condition. Replace missing or damaged signs.



*On Back of Blade, Center*



*On Back of Blade, RH Side*

MX,SACKG -19-08NOV88

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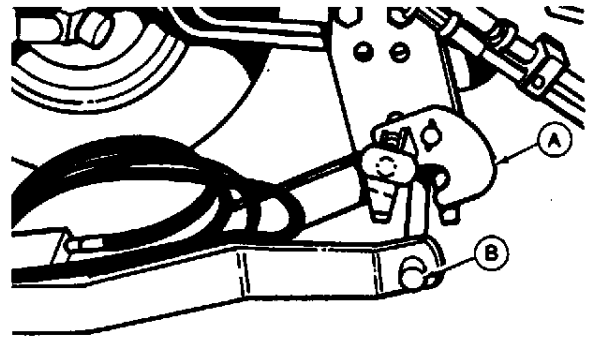
M41776 -19-18JAN89

# Installation/Removal

## INSTALLING BLADE

1. Position blade on level ground, in front of tractor, with hoses laying near center of blade.
2. Start tractor engine. Drive over blade frame. Stop when front and rear cam plates (A) are over round bars (B) on blade frame.
3. Stop tractor engine. Lock park brake.

*NOTE: Move SCV lever back and forth and side to side to relieve hydraulic pressure of couplers.*

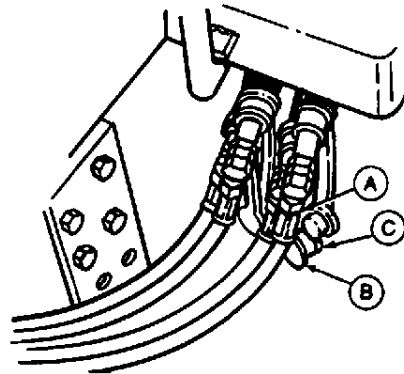


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MX,IRCKA -19-13DEC88

*NOTE: Match tags (A) attached to hydraulic hoses with color-coded hydraulic outlets on tractor.*

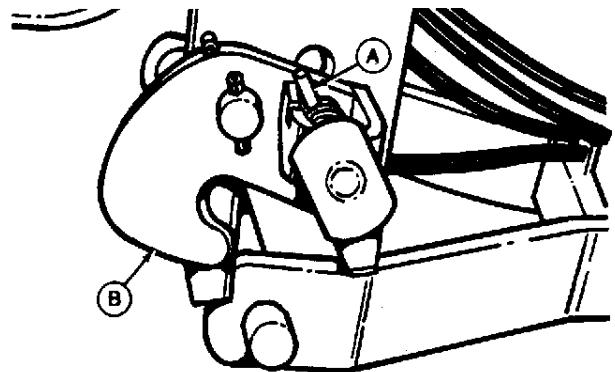
4. Connect hydraulic hoses to couplers.
5. Assemble dust caps (B) over dust plugs (C).



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MX,IRCKB -19-13DEC88

6. Release all lock pins (A) from "locked out" position. Be sure all cams (B) are swung fully open.



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MX,IRCKC -19-13DEC88



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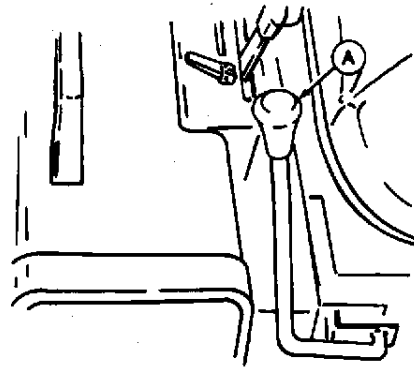
## Installation/Removal

7. Start tractor engine.

*NOTE: Release parking brake to allow some tractor movement to aid in alignment and cam engagement.*

8. Pull SCV hydraulic control lever (A) back to raise rear of frame until rear cams rotate and lock.

9. Push SCV hydraulic control lever forward to raise front of frame until front cams rotate and lock.



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## REMOVING BLADE

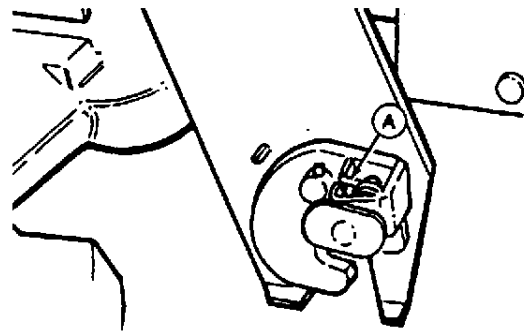
*NOTE: Park on level surface. Do not angle blade.*

1. Lower blade to ground with slight down force to slightly lift front of tractor.

2. Stop tractor engine. Lock park brake.

MX,IRCKE -19-13DEC88

3. Put front lock pins (A) in "locked-out" position.



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