

945
Center Pivot
Rotary Roll
Mower-Conditioner
(Serial No. 119001-)

John Deere Ottumwa Works
OME92873 Issue D7
(This manual replaces OME91037 B7)

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 and safety signs on your machine may also be available in other languages. (See your John Deere dealer to order.)

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

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

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

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification section. Accurately record all the numbers to help in tracing the machine should

it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

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 applicable to your machine may not apply outside the U.S.



John Deere 945 Mower-Conditioner

EX,945IOM,IFC -19-17SEP96

Contents

| Page | Page | | |
|--|-------|--|-------|
| Safety | 05-1 | Transporting—Standard Machine | |
| Preparing the Tractor | | Preparing Mower-Conditioner for | |
| Selecting Tractor PTO Speed | 10-1 | Transport | 25-1 |
| Positioning Drawbar | | Transporting Mower-Conditioner | 25-4 |
| Two-Point Hitch | 10-1 | Keep Riders Off Machine | 25-4 |
| Drawbar Hitch | 10-2 | Transporting—Endwise Transport System | |
| Installing Hitch Adapter (Drawbar Hitch) | 10-3 | Loading Mower-Conditioner on Transport | 30-1 |
| Adjusting Sway Blocks (Two-Point Hitch) | 10-4 | Preparing for Transport | 30-5 |
| Setting Hydraulic Outlets | 10-5 | Transporting Mower-Conditioner | 30-7 |
| Checking Ballast, Wheel Spacing and | | Keep Riders Off Machine | 30-7 |
| Tire Inflation | 10-5 | Unloading Mower-Conditioner from | |
| Using Drawbar Shield (Drawbar Hitch) | 10-5 | Transport | 30-8 |
| Making Drawbar Shield (Drawbar Hitch) | 10-6 | Transporting Transport Without | |
| Preparing the Mower-Conditioner | | Mower-Conditioner | 30-9 |
| Checking Tire Inflation Pressure | 15-1 | Preparing Transport For | |
| Checking Wheel Hardware Torque | 15-1 | Mower-Conditioner | 30-11 |
| Positioning Hitch Pad (Two-Point Hitch) | 15-2 | Operating the Mower-Conditioner | |
| Assembling Hitch Pins (Two-Point Hitch) | 15-3 | Preparing Mower-Conditioner For Field | |
| Attaching and Detaching | | Operation | 35-1 |
| Attaching Mower-Conditioner Hitch To | | Prestarting Checks | 35-2 |
| Tractor | | Breaking In Mower-Conditioner | 35-3 |
| Two-Point Hitch to Quick-Coupler Hitch | 20-1 | Keep Riders Off Machine | 35-3 |
| Two-Point Hitch to Draft Link Hitch | 20-3 | Follow Safe Operating Procedures | 35-4 |
| Drawbar Hitch | 20-5 | Opening a New Field | 35-5 |
| PTO Driveline | | Turning In Field | 35-6 |
| Assembling | 20-7 | Settings for Various Crop Conditions | 35-8 |
| Attaching | 20-8 | Raising and Lowering Front Doors and | |
| Connecting Warning Light Wiring Harness | | Curtains | 35-9 |
| to Tractor | 20-9 | Adjusting | |
| Attaching to Tractor Hydraulic System | 20-10 | Windrow Width | 35-10 |
| Attaching Endwise Transport Latch Rope | | Gauge Shoes | 35-11 |
| (If Equipped) | 20-12 | Carrier Frame Height | 35-14 |
| Detaching Mower-Conditioner From | | Cut Height—Turnbuckle Top Link | 35-16 |
| Tractor | 20-13 | Cut Height—Hydraulic Tilt Control | 35-17 |
| | | Platform Float | 35-18 |
| | | Adjusting Roll Spacing | 35-19 |
| | | Adjusting Conditioner Roll Pressure | 35-20 |

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.

OME92873 D7-19-15JUN98

COPYRIGHT© 1997
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION™ Manual

Contents

| | Page | | Page |
|--|-------------|--|-------------|
| Shearing Disk Driver When Operating in the Field | 35-22 | Direction of Knife Rotation | 55-18 |
| Attachments | 40-1 | Direction of Disk Rotation | 55-19 |
| Lubrication and Maintenance | | Replacing Wear Shield on Knife Bolt | 55-20 |
| Lubricating and Maintaining Machine | | Installing Disk Guard | 55-20 |
| Safely | 45-1 | Clean Disk Area When Replacing Disk Driver | 55-21 |
| Grease | 45-1 | Replacing Disk Driver | 55-22 |
| Cutterbar Oil | 45-2 | Replacing Left-Hand End Disk Driver | 55-24 |
| Gear Case Oil | 45-2 | Replacing Right-Hand End Disk Driver | 55-28 |
| Alternative and Synthetic Lubricants | 45-3 | Changing Tire | |
| Mixing Lubricants | 45-3 | Mower-Conditioner | 55-30 |
| Lubricant Storage | 45-3 | Transport (If Equipped) | 55-31 |
| Observe Lubrication Symbols | 45-4 | Storage | 60-1 |
| Perform Lubrication and Maintenance | 45-4 | Specifications | |
| Lubrication and Maintenance | | Machine Specifications | 65-1 |
| Every 10 Hours | 45-5 | Record Product Identification Numbers | 65-2 |
| Every 50 Hours | 45-11 | Bolt and Cap Screw Torque Value Charts | |
| Every 100 Hours | 45-13 | Metric | 65-3 |
| Every 200 Hours | 45-15 | Inch | 65-4 |
| Each Season | 45-16 | Crime Prevention Tips | 70-1 |
| Troubleshooting | 50-1 | Index | |
| Service | | | |
| Practice Safe Service Procedures | 55-1 | | |
| Keep Service Area Clean | 55-2 | | |
| Service Tires Safely | 55-3 | | |
| Bleeding Platform Lift Circuit | 55-4 | | |
| Main Drive Belt | | | |
| Adjusting Tension | 55-5 | | |
| Replacing Belt | 55-7 | | |
| Conditioner Drive Belt | | | |
| Adjusting Tension | 55-9 | | |
| Replacing Belt | 55-10 | | |
| Adjusting Roll Timing | 55-11 | | |
| Disks | | | |
| Checking Wear | 55-13 | | |
| Removing | 55-13 | | |
| Installing and Synchronizing | 55-14 | | |
| Knives | | | |
| Removing | 55-14 | | |
| Installing | 55-15 | | |
| Checking | 55-15 | | |
| Checking Wear | 55-16 | | |
| Checking Mounting | 55-16 | | |
| Knife Bolts | | | |
| Checking | 55-16 | | |
| Replacing | 55-17 | | |
| Checking Knife Nuts | 55-17 | | |

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.



DX,ALERT -19-03MAR93

T81389 -UN-07DEC68

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.



DX,SIGNAL -19-03MAR93

TS187 -19-30SEP88

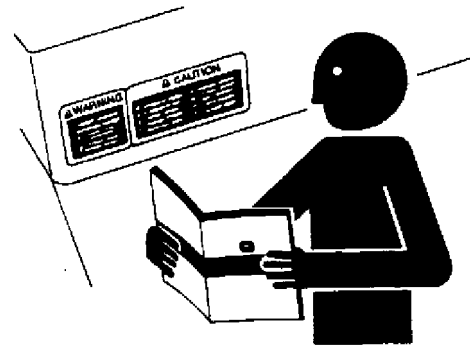
FOLLOW SAFETY INSTRUCTIONS

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.

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 -19-03MAR93

TS201 -UN-23AUG88



OPERATE MOWER-CONDITIONER SAFELY

Keep all shields in place.

Never hand feed material into machine.

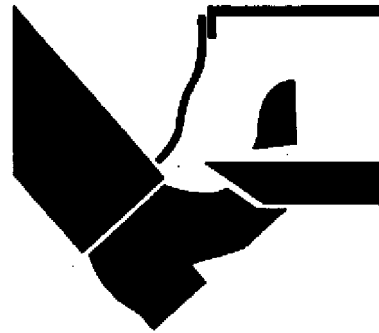
Do not lean against, sit, or stand on cutterbar curtains or their supporting framework.

Do not operate mower-conditioner with cutterbar in raised position.

Regularly check that disks and knife bolts are tight.

Always operate machine at rated speed.

Drive slowly over rough ground.



EX,945RC,A -19-16FEB97

-UN-23AUG88

TS268

-UN-05OCT93

E37493

KEEP RIDERS OFF MACHINE

Keep riders off.

Riders 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.



EX,945IC,H -19-13FEB97

-UN-23AUG88

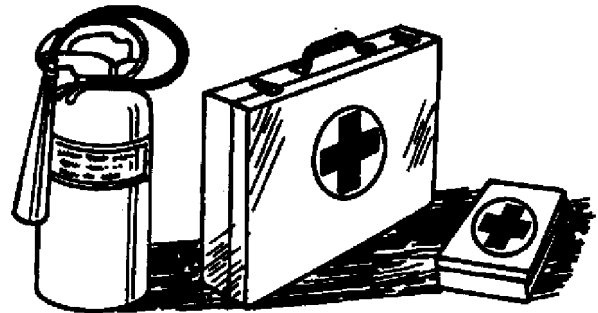
TS249

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.



DX,FIRE2 -19-03MAR93

-UN-23AUG88

TS291



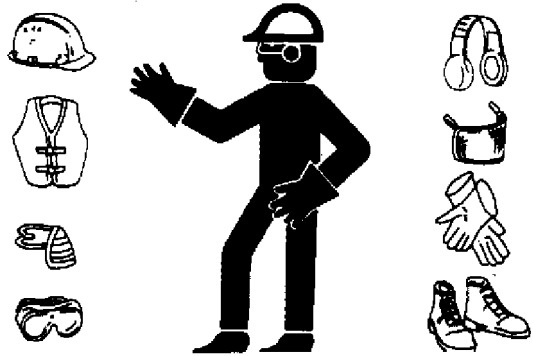
WEAR PROTECTIVE CLOTHING

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.

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



DX,WEAR -19-10SEP90

TS206 -UN-23AUG68

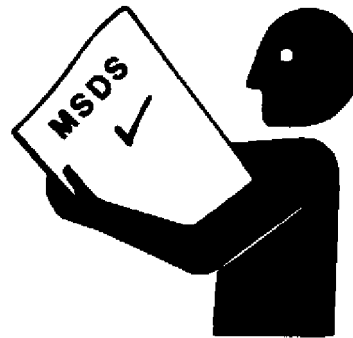
HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



DX,MSDS,NA -19-03MAR93

TS1132 -UN-26NOV90



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.



DX,PTO -19-12SEP95

TS1644 -UN-22AUG95

AVOID INJURY FROM THROWN OBJECTS

Extreme care must be exercised to avoid injury from thrown objects. Do not, under any circumstances, operate the mower-conditioner when other people are in the vicinity. Stones and other objects can be thrown great distances by the rotating cutting blades.

The cutterbar curtains are very important to reduce the potential for thrown objects. Always keep these curtains down when operating the mower-conditioner. Replace the curtains if they should become worn or damaged.

For additional operator protection from thrown objects, it is required that this mower-conditioner be used with a tractor equipped with a complete operator enclosure.



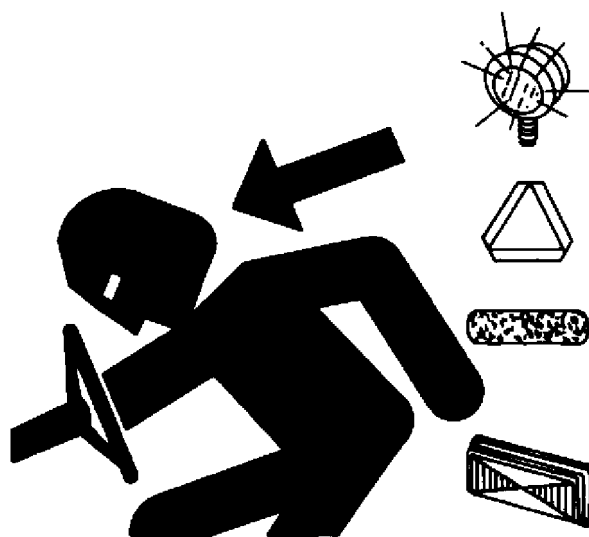
EX,930C,A -19-14OCT93

TS265 -UN-23AUG88

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 hand signals or 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 and in good working order. Replace or repair lighting and marking that has been damaged or lost.



EX,945IC,E -19-13FEB97

TS951 -UN-12APR90

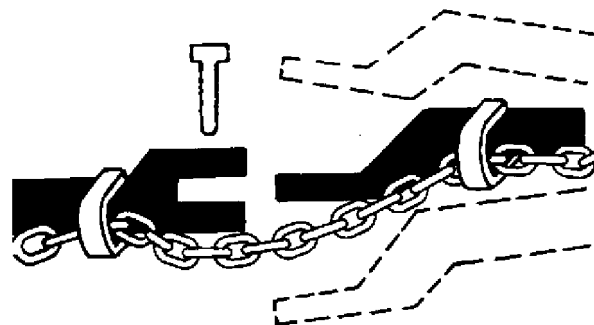


USE A SAFETY CHAIN (DRAWBAR HITCH)

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.

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.



-UN-23AUG68
TS217

EX,945IC,F -19-13FEB97

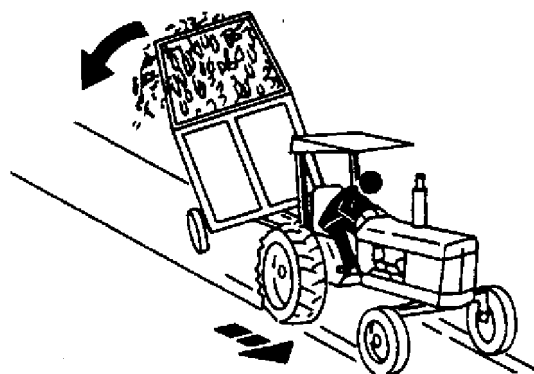
TOW LOADS SAFELY

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.

Observe these recommended maximum road speeds, or local speed limits which may be lower:

- If towed equipment does not have brakes, do not travel more than 32 km/h (20 mph) and do not tow loads more than 1.5 times the tractor weight.
- If towed equipment has brakes, do not travel more than 40 km/h (25 mph) and do not tow loads more than 4.5 times the tractor weight.

Ensure the load does not exceed the recommended weight ratio. Add ballast to recommended maximum for tractor, lighten the load, or get a heavier towing unit. The tractor must be heavy and powerful enough with adequate braking power for the towed load. Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.



-UN-23AUG68
TS216

DX,TOW -19-02OCT95



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.

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



DX,SERV -19-03MAR93

TS218 -UN-23AUG88

REMOVE PAINT BEFORE WELDING OR HEATING

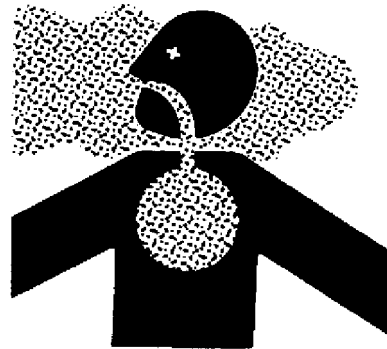
Avoid potentially toxic fumes and dust.

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

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- 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.



DX,PAINT -19-03MAR93

TS220 -UN-23AUG88



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 be accidentally cut when heat goes beyond the immediate flame area.



DX,TORCH -19-03MAR93

TS953 -UN-15MAY90

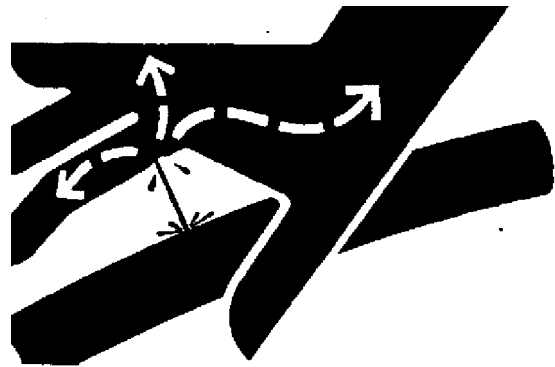
AVOID HIGH-PRESSURE FLUIDS

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 should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



DX,FLUID -19-03MAR93

X9811 -UN-23AUG88

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com