

Hydraulic Dump Material Collection System (MCS): 50, 55 and 70 Series Tractors

**John Deere Horicon Works
OMM95294 Issue B0
(This manual replaces M77706 May88)**

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.

W THIS MACHINE IS OF METRIC design. Measurements in this manual are metric with the customary U.S. measurement following. Use only metric hardware and tools as specified.

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.

PART NUMBERS may differ outside of U.S. See your John Deere dealer.

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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

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.

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

-19-30SEP88

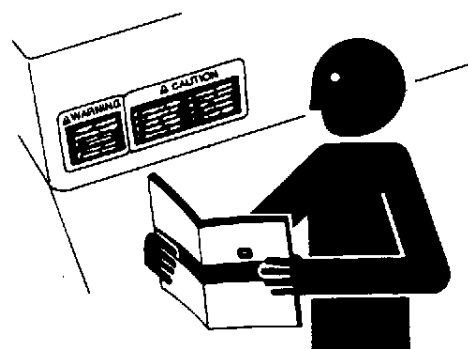
TS187

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

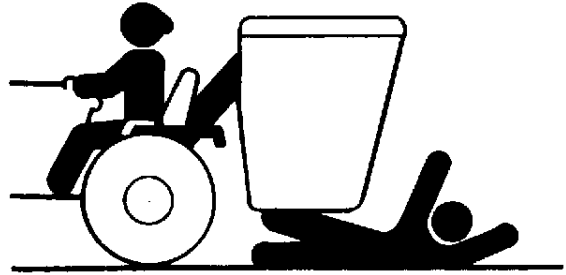
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TS201

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PROTECT CHILDREN

- Before you back: Look behind for children.
- Do not let children get inside MCS.
- Do not let children ride on tractor or MCS.

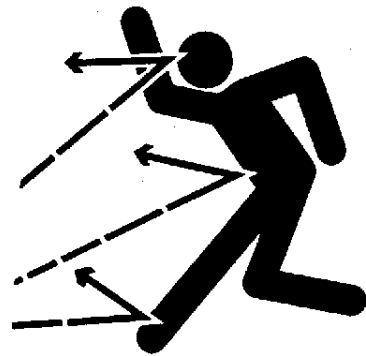


MX_SADY_A2 -19-04APR89

M61052 -UN-10NOV89

AVOID INJURY FROM THROWN OBJECTS

- Clear work area of objects that may be thrown.
- Keep bystanders out of work area.
- Stop tractor and Power-Pak engines before you empty MCS.
- Keep all shields, chutes and hoses in place.



MX_SADY_A4 -19-04APR89

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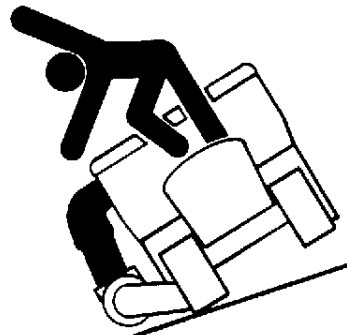
SAFETY TIPS

1. Allow only operator on tractor. Keep riders off.
2. Use MCS safely.
 - Stop tractor engine and Power-Pak engines before you empty MCS.
 - Empty MCS before transporting.
 - Do not drive with MCS in dump position.
 - Empty MCS at end of each day.

MX_SADY_A1 -19-04APR89

AVOID TIPPING

- Install minimum of six front weights on tractor.
- Slow down before you make turns.
- Do not use MCS near ditch or bank.
- Avoid holes, rocks or roots.
- Drive up and down — not across — slopes.
- Avoid parking on slopes.
- On slopes: empty MCS when it is half full.



MX_SADY_A3 -19-04APR89

M61053 -UN-10NOV89

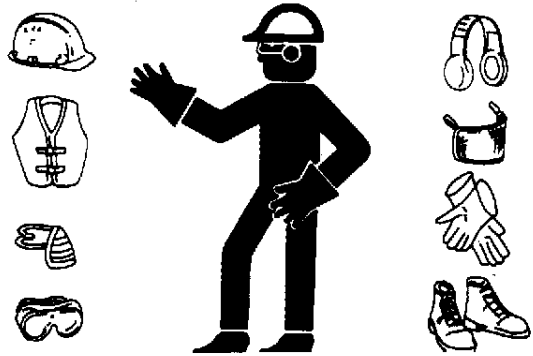
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WEAR PROTECTIVE CLOTHING

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.



O53,WEAR -19-23APR87

TS206 -UN-23AUG88

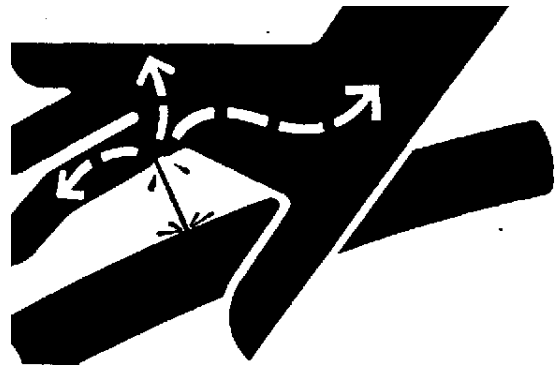
AVOID HIGH-PRESSURE FLUIDS

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.



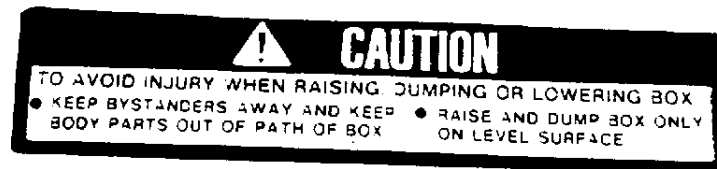
O53,FLUID -19-01DEC88

X9811 -UN-23AUG88

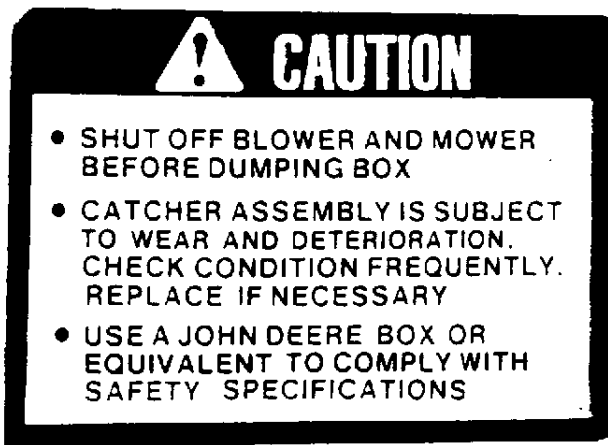
SAFETY SIGNS



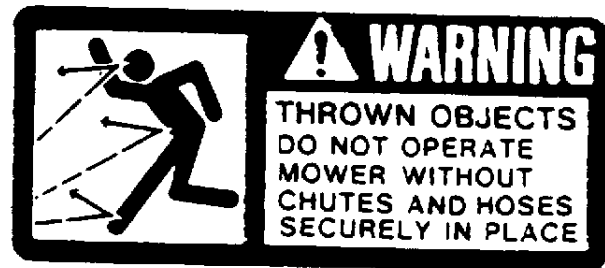
On Frame



On Frame



Collection Box Safety Sign



Collection Boot Safety Sign

-19-16NOV89

M72056

MX.SADY.A5 -19-04APR89

Installation/Removal

TRACTOR REQUIREMENTS:

1. Tractor must have Category 1, 3-point hitch.
2. 655, 755, 855 and 955 tractors must have mid-rockshaft hydraulic cylinder. This prevents MCS from raising and lowering every time you raise or lower mower.
3. 650 and 750 tractors require 3-point hitch with chain leveling kit. 670 and 770 tractors require 3-point hitch.
4. Install maximum number of front weights.
5. Tractor must have 50 or 60 in. mower.

MX,IRDY,A1 -19-04APR89

INSTALLING MCS

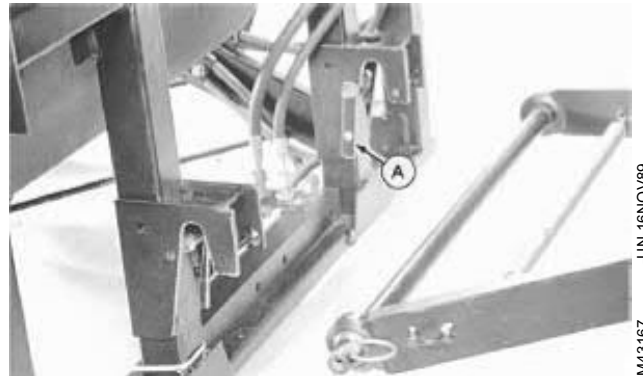
1. Install crossbar through draft-links. Fasten it with two quick-lock pins.



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-UN-16NOV89

MX,IRDY,A2 -19-04APR89

2. Open left and right safety latches (A).



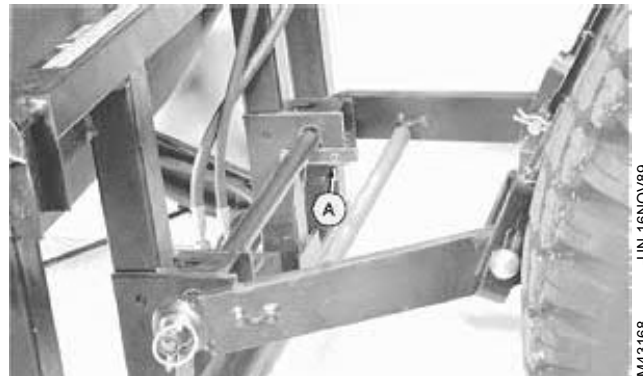
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-UN-16NOV89

MX,IRDY,A3 -19-04APR89

3. Back tractor into position. Raise hitch until crossbar contacts top of hydraulic dump brackets.

IMPORTANT: To help prevent damage to hydraulic dump, close safety latches before you raise or lower it.

4. Close each safety latch (A).



IM43168
-UN-16NOV89

MX,IRDY,A4 -19-04APR89

Installation/Removal

5. Loosen locking nut (A) on center link.

6. Adjust center link and install pin. Fasten it with quick-lock pin (B). Same amount of threaded rod should show on each end of center link.



MX,IRDY_A5 -19-04APR89

M43170 -UN-16NOV89

7. Start tractor engine and raise MCS 350 mm (14 in.) off ground.

8. Adjust center link frame until frame is perpendicular to ground.

9. Tighten locking nut (A) against center link.



MX,IRDY_A6 -19-04APR89

M40962 -UN-16NOV89

10. Remove storage stands.



MX,IRDY_A7 -19-04APR89

M43165 -UN-16NOV89

11. Connect hoses to tractor:

— 50 Series Tractors: Follow instructions in CONNECTING HOSES TO 50 SERIES TRACTORS in Assembly section.

— 55 Series Tractors: Follow instructions in CONNECTING HOSES TO 55 SERIES TRACTORS in Assembly section.

— 70 Series Tractors: Follow instructions in CONNECTING HOSES TO 70 SERIES TRACTORS in Assembly section.

12. If equipped, connect plug for optional light kit into tractor.

MX,IRDY,A8 -19-04APR89

13. Install mower boot on mower deck. Fasten with strap (A).

NOTE: 60 in. mowers require two straps. 50 in. mowers require one strap.



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MX,IRDY,A9 -19-04APR89

REMOVING MCS

N **CAUTION: Stop tractor and Power-Pak engines before removing MCS.**

1. Remove mower boot from mower.

2. Install rear stands.

3. Lower tractor 3-point hitch.

4. Relieve hydraulic pressure by moving tractor hydraulic levers in both directions.

5. Remove hoses from tractor quick-couplers. Install hose protectors on hose ends. Remove tie straps securing hoses to tractor.

6. If equipped, remove plug for optional light kit from tractor.

7. Remove MCS from tractor 3-point hitch.

MX,IRDY,A10 -19-04APR89



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Operating MCS

LEARNING CONTROLS

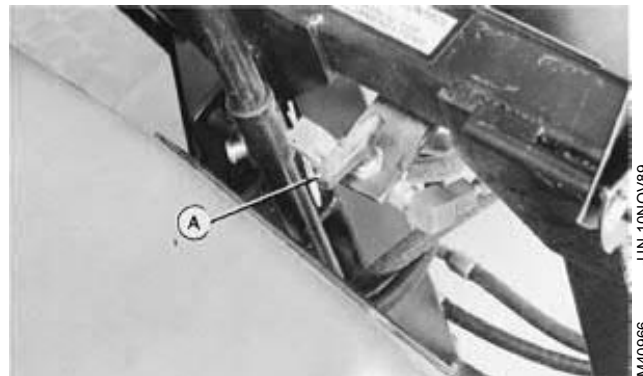
1. Use hydraulic control lever to raise and dump MCS.



MX,OPDY,A1 -19-04APR89

M43219
-UN-16NOV89

2. Turn shut-off valve (A) to control MCS:
 - Turn valve straight ahead when mowing or when not dumping grass (shown).
 - Turn sideways (in line with hoses) when dumping grass.



MX,OPDY,A2 -19-04APR89

M40966
-UN-10NOV89

3. Raise and lower MCS to transport and operating positions with tractor rockshaft lever.



MX,OPDY,A3 -19-04APR89

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-UN-29AUG88

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