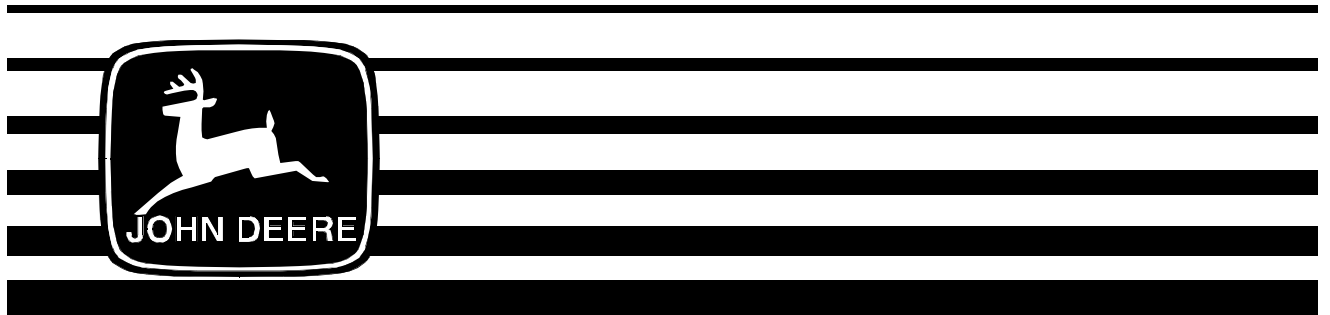


Hydraulic Dump Material Collection System (MCS) For 4100 Tractors

Serial No. (010001 -)



OPERATOR'S MANUAL

**John Deere
Worldwide Commercial And
Consumer Equipment Division
OMM140121 E9**

North American
Litho in U.S.A.
English

INTRODUCTION

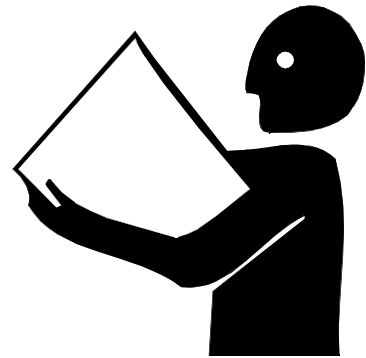
THANK YOU for purchasing a John Deere product.

Read this manual thoroughly. 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 metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (---->), it indicates the part it is pointing to is hidden.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your dealer when you order parts.



DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT IDENTIFICATION NUMBER (A):

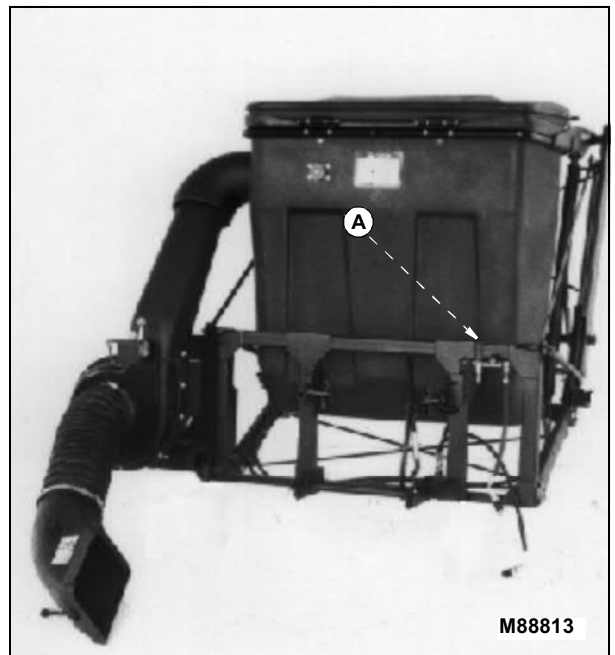


TABLE OF CONTENTS

Safety Signs	1
Installing	3
Removing	8
Operating	12
Service Machine Safely	20
Service	22
Troubleshooting	25
Storing Machine	27
Assembly	28
Specifications	44
Index	45
John Deere Service Literature	49

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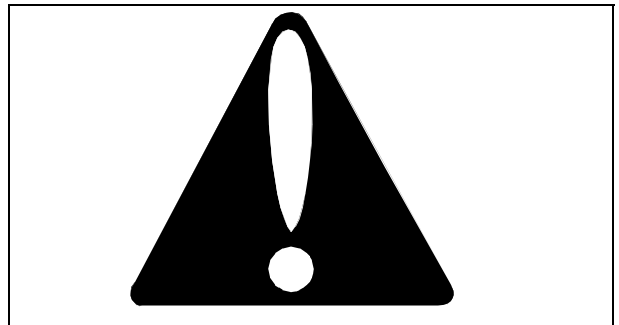
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SAFETY SIGNS

Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

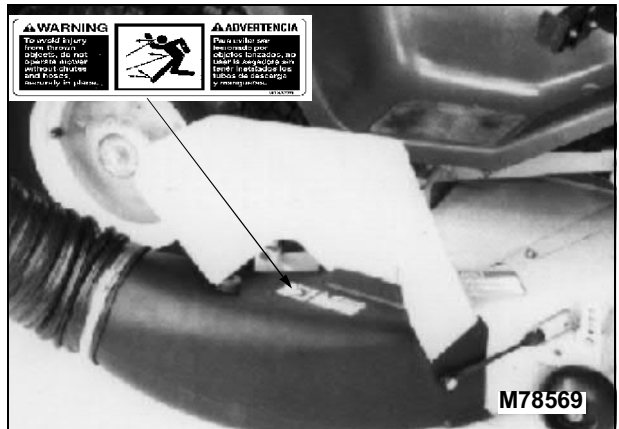
On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Labels

WARNING

To avoid injury from thrown objects: DO NOT operate mower without chutes and hoses securely in place.



CAUTION

- Shut off blower and mower before dumping box.
- Catcher assembly is subject to wear and deterioration. Check condition frequently. Replace if necessary.
- Use a John Deere box or equivalent to comply with safety specifications.



SAFETY SIGNS

CAUTION

To avoid injury when raising, dumping or lowering box.

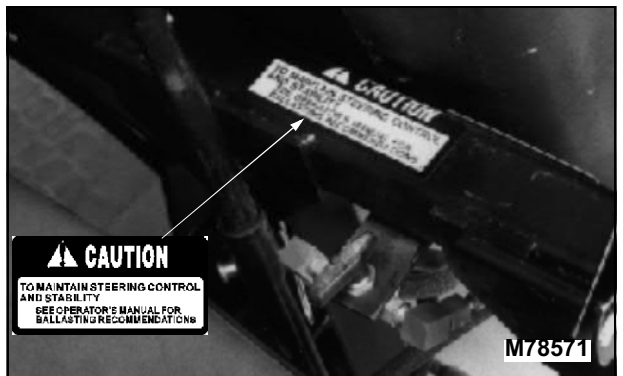
- Keep bystanders away and keep body parts out of path of box.
- Raise and dump box only on level surface.



CAUTION

To maintain steering control and stability.

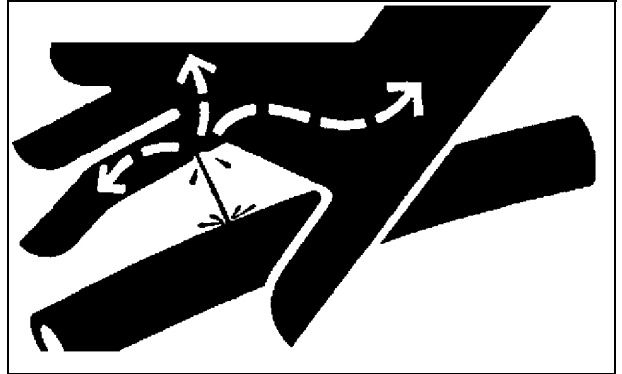
See operator's manual for ballasting recommendations.



INSTALLING

Avoid High Pressure Fluids

- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- 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. Information may be obtained in the United States and Canada only by calling 1-800-822-8262.



Tractor Requirements

- Tractor must have a category 1, 3-point hitch.
- Tractor must have a mid-rockshaft hydraulic cylinder. This prevents the MCS from raising and lowering every time the mower deck is raised or lowered.
- Tractor must have optional Dual SCV kit installed.
- Install five 20 kg (42 lb) front weights.
- Install Lift Stop Kit.

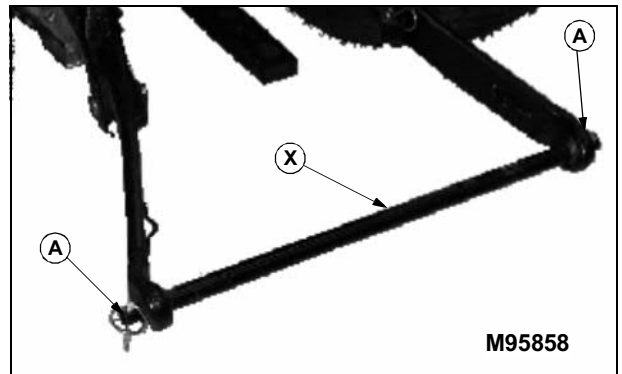
INSTALLING

Installing MCS

1. Park tractor safely and on level ground.

NOTE: Crossbar and quick-lock pins are stored with MCS.

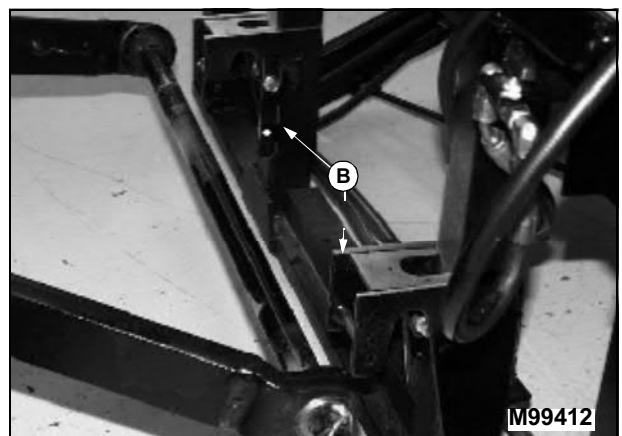
2. Install crossbar (X) through draft-links. Fasten with two quick-lock pins (A).



3. Open left and right MCS frame safety latches (B).

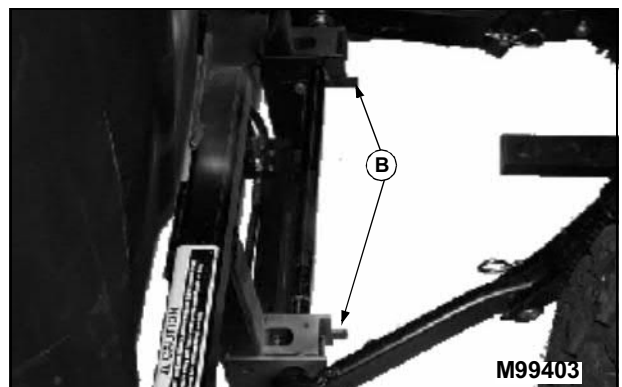
4. Back tractor into position. Raise hitch until crossbar contacts top of hydraulic dump brackets.

5. Engage park brake, stop engine and remove key.



IMPORTANT: To help prevent damage to the hydraulic dump, close safety latches before raising or lowering MCS.

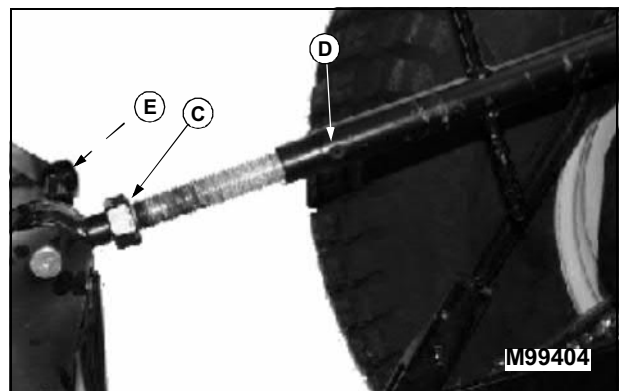
6. Close each safety latch (B).



7. Loosen locking nut (C) on center link (D).

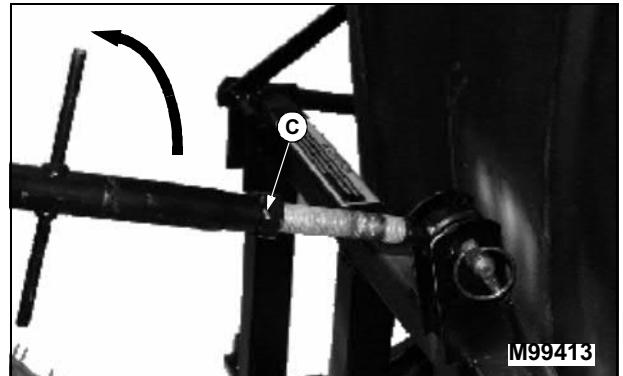
NOTE: The same amount of threaded rod should show on each end of the center link.

8. Adjust center link and install pin. Fasten with quick-lock pin (E).

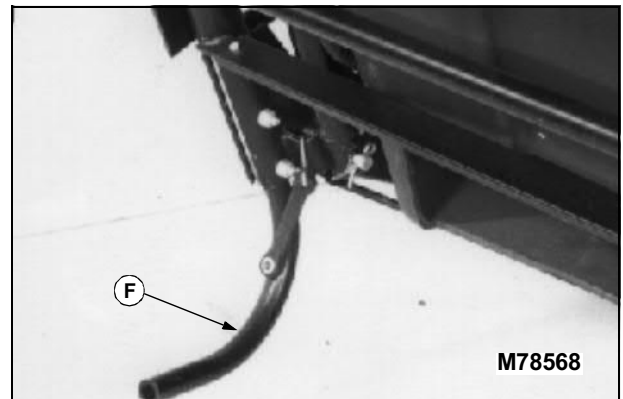


INSTALLING

9. Start tractor engine and raise MCS 350 mm (14 in.) off ground.
10. Stop engine and remove key.
11. Adjust center link until frame is perpendicular to the ground.
12. Tighten locking nut (C) against center link.



13. Remove both stabilizer feet (F).

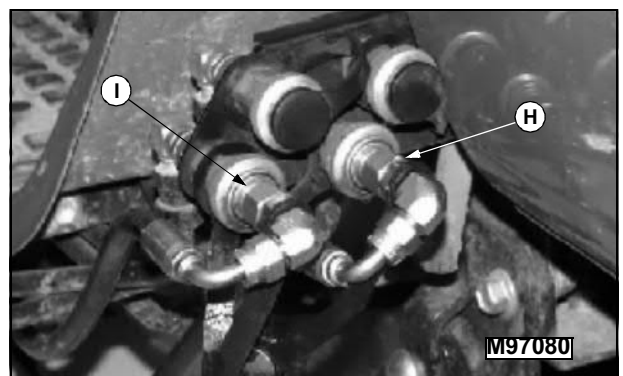


14. Route and connect hydraulic lines (G) from MCS to the right side of tractor. Under center link, between ROPS mounting bracket and transaxle along tractor frame and to hydraulic couplers.

15. Use tie straps provided to safely attach hoses to tractor frame and out of the way of moving parts.



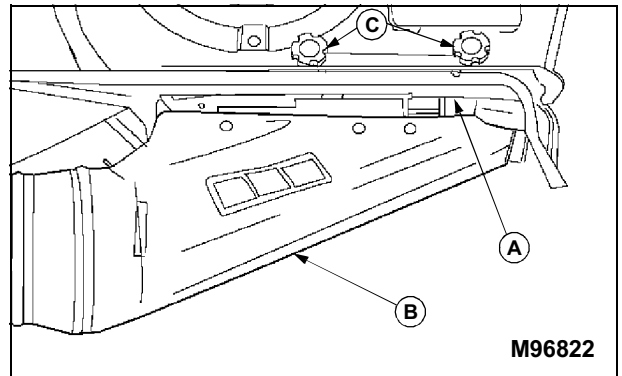
16. Connect green hydraulic coupler (H) to No. 4 SCV. This line is connected to shut-off valve on MCS frame.
17. Connect black hydraulic coupler (I) to No. 3 SCV. This line is connected to "raise" side of lift cylinders.
18. Attach hoses to tractor frame with tie straps.
19. Connect plug for optional light kit into tractor if equipped.



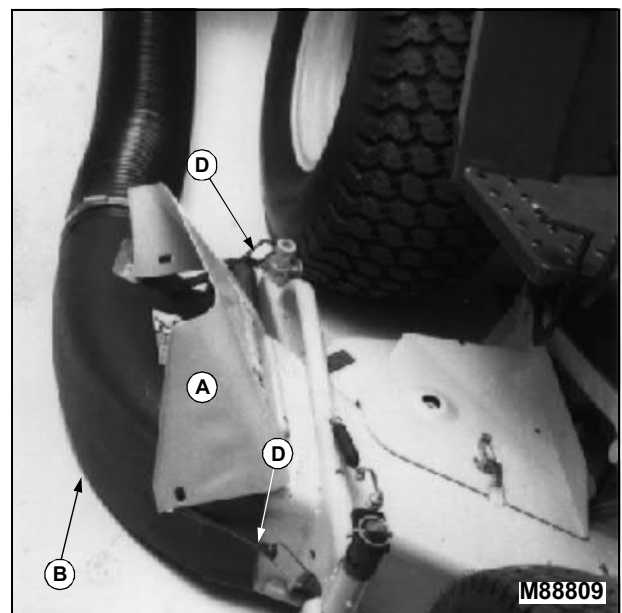
INSTALLING

Installing Boot

1. Clean grass and dirt from underside of discharge chute.
2. Lower mower deck to its lowest position.
3. Raise hydraulic dump to its highest operating position.
4. Raise the discharge chute (A).
5. For 54-inch decks: Fasten boot (B) to mower deck with knobs (C).



6. For 60 inch decks: Fasten the boot (B) to the mower deck with two straps (D).



INSTALLING

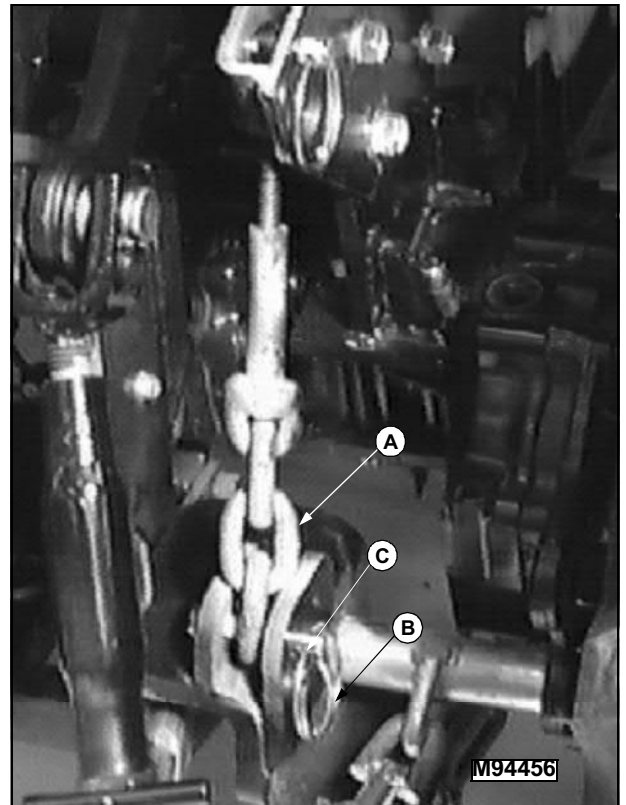
Adjusting Lift Stop Bracket

NOTE: The purpose of this adjustment is to set the mower at the desired cutting height. While allowing the MCS full range of motion.

1. Raise mower deck to provide slack in lift stop chains (A).
2. Remove ring (B) and bottom clevis pin (C) from right lift bracket. Repeat for left lift stop bracket.

NOTE: Make sure mower deck is slightly higher (approximately 1/8 inch) than desired height. Mower deck will settle slightly when weight is shifted to lift stop brackets.

3. Set mower deck height. (See tractor operator manual for deck height adjustments).
4. Adjust stop length for both sides, so that chain tension is tight. Install bottom clevis pins and rings.



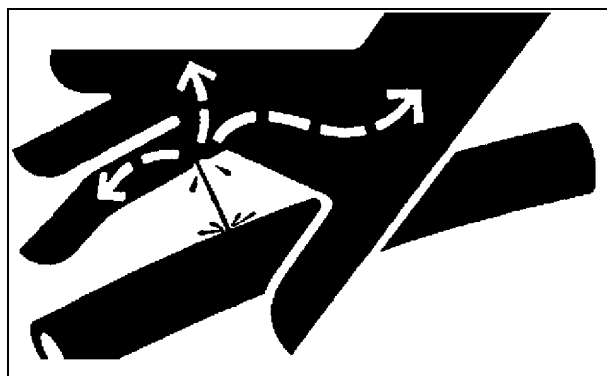
REMOVING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Avoid High Pressure Fluids

- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- 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.
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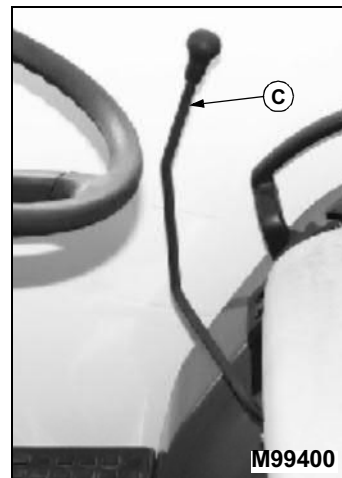
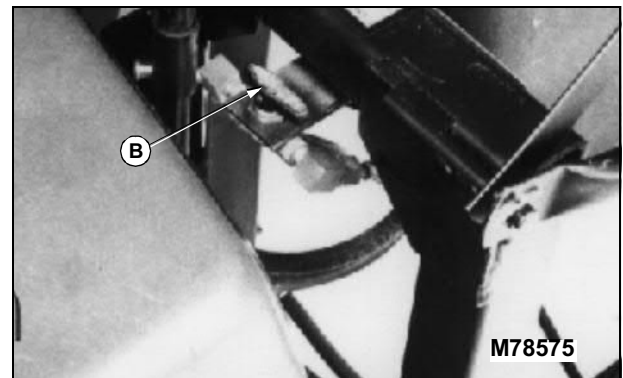
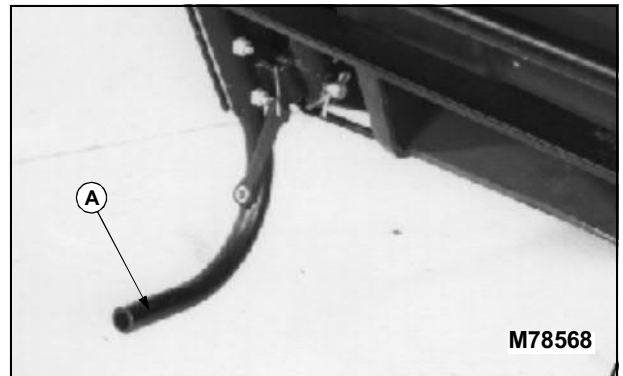
Removing MCS

1. Park vehicle safely.



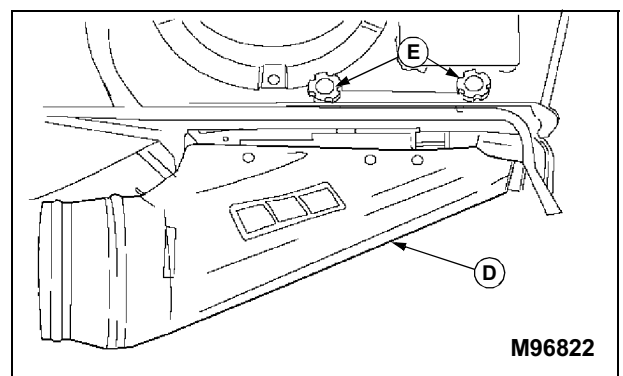
CAUTION: Stop tractor and Power-Pak engines before removing MCS.

2. Remove mower boot from mower.
3. Raise MCS off ground.
4. Shut off engine and engage park brake.
5. Install both MCS stabilizer feet (A).
6. Start engine.
7. Lower MCS to the ground using 3-point hitch.
8. Put hydraulic dump shut-off valve (B) in the horizontal and open position shown.
9. Shut off engine and engage park brake.
10. Relieve hydraulic pressure by moving SCV lever (C) in all four directions.



11. Remove boot (D) and tube together from mower deck:

- For 54-inch decks, turn plastic knobs (E) to the right, counterclockwise, to loosen.



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