

3-Bag Material Collection System (MCS): Front Mowers



JOHN DEERE

OPERATORS MANUAL

3-Bag Material Collection System
(MCS): Front Mowers

OMM77709 E8 English

John Deere Horicon Works

OMM77709 E8

(This manual replaces M77709 B8)

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.

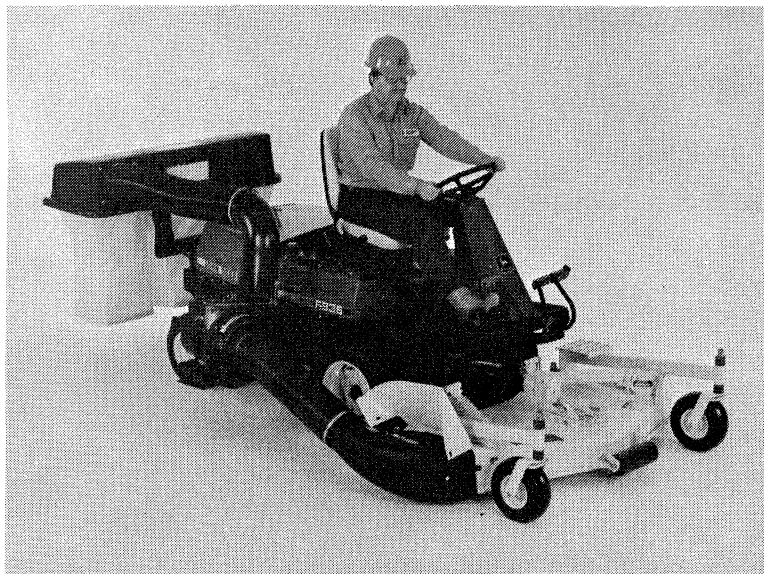
Right-hand and left-hand sides are determined by facing in the direction of forward travel.

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.

Part numbers may differ outside of U.S. See your John Deere dealer.



All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety

SAFETY TIPS

1. Allow only operator on Front Mower. Keep riders off.

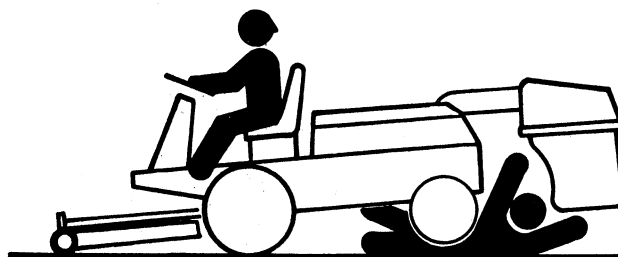
2. Use MCS safely:

- Stop Front Mower engine and Power-Pak engine before you empty MCS.
- Keep all chutes and hoses in place.
- Empty MCS before transporting
- Empty bags at end of each day.
- Do not use MCS unless it is attached to Front Mower.

3. Do not modify machine. Unauthorized modifications may impair function and/or safety and affect machine life.

PROTECT CHILDREN

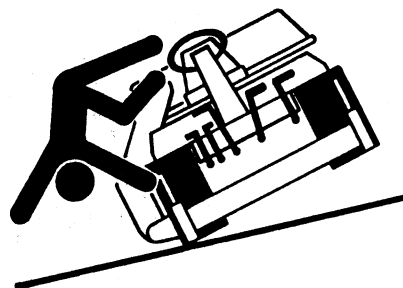
- Before you back: Look behind for children.
- Do not let children ride on Front Mower or MCS.



M61002

AVOID TIPPING

- 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 bags when half full.



M61003

AVOID INJURY FROM THROWN OBJECTS

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



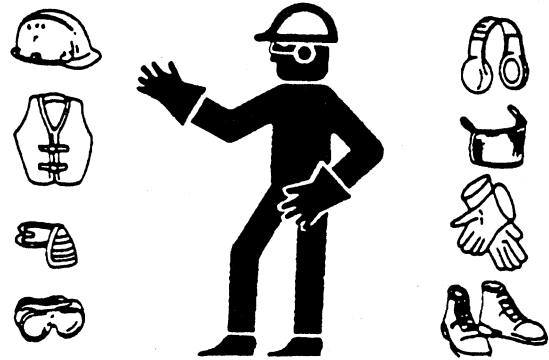
M41423

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 ear-muffs or earplugs to protect against objectionable or uncomfortable loud noises.

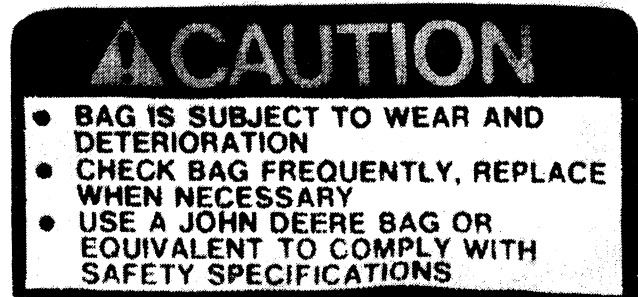


TS206

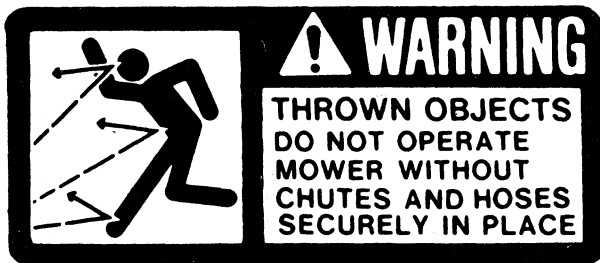
FOLLOW SAFETY INSTRUCTIONS

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.



On Bags



On Top of Mower Boot



On Top of Hopper

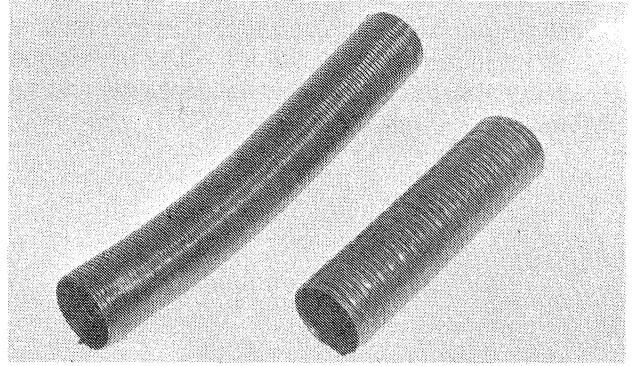
M61004

Installation/Removal

INSTALL HOSE ON BOOT

1. For 50-Inch Mower, cut shorter hose to 21 in. (535 mm).

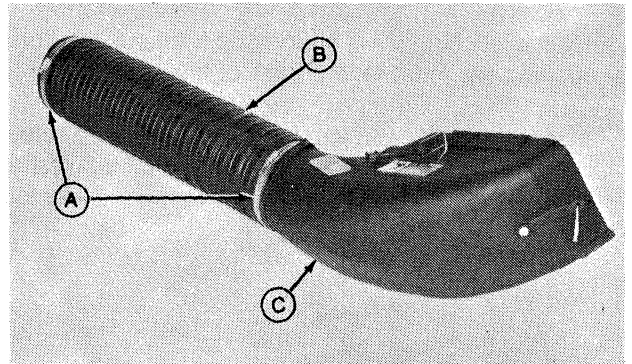
For 60-Inch Mower, use shorter hose as is.



M43146

2. Put clamps (A) on short hose (B).

3. Slide hose on boot (C). Do not tighten clamps.



M43147

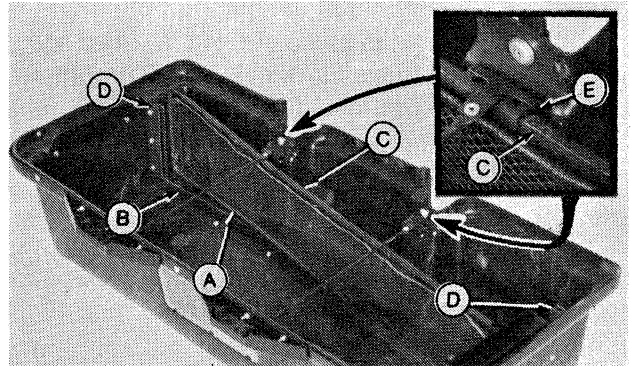
ASSEMBLING MCS

1. To install screen (A) in hopper top:

—Put screen behind flange (B). Put flat side of plastic edge (C) toward front of hopper top.

—Slide screen frame into channels (D).

—Twist plastic edge (C) into retainers (E).



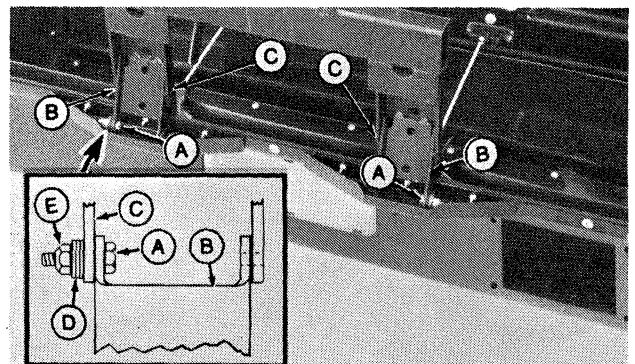
M61005

2. Fasten hopper top to support:

—Put 5/16 x 1 in. cap screws (A) through hopper supports (B) and hinges (C). Put cap screws through from inside.

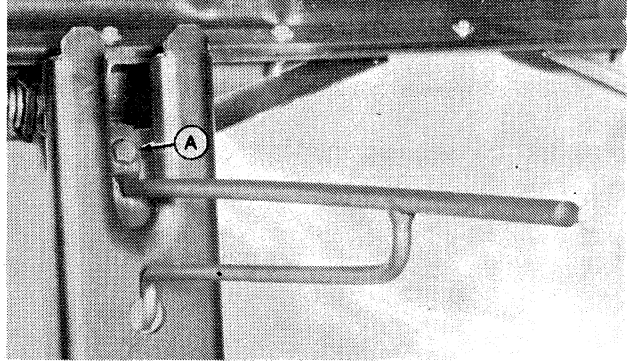
—Put four spring washers (D) on cap screws. Cup sides of washers must face hinge.

—Fasten cap screws with lock nuts (E).



M61006

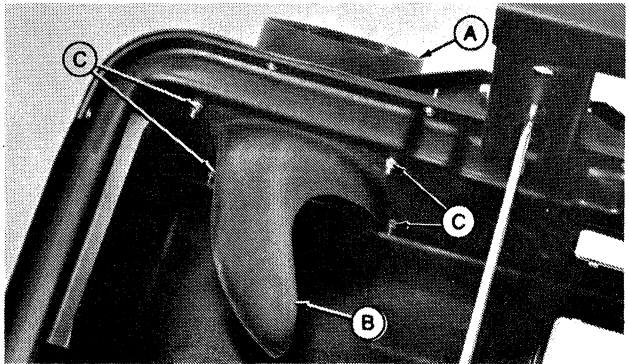
3. Install two latch retainers on support. Fasten retainers with 5/16 x 1-in. screw (A), 0.344 x 1 x 0.134-in. washer, and lock nut. Washer must be between lock nut and support. Tighten lock nuts.



M43152

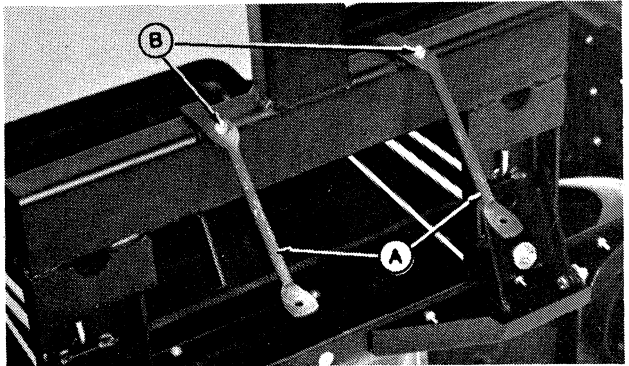
4. Install inlet chute (A) in hopper top from outside. Internal opening (B) must face center of hopper top.

5. Fasten inlet chute with four M6 x 35 flanged cap screws (C), eight washers and flanged lock nuts. Put four washers under heads of cap screws and four washers under lock nuts.



M40643

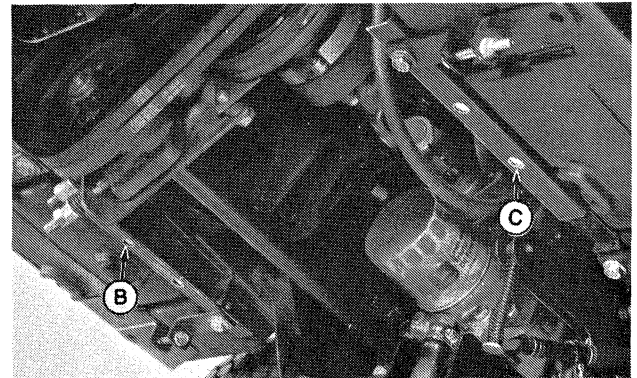
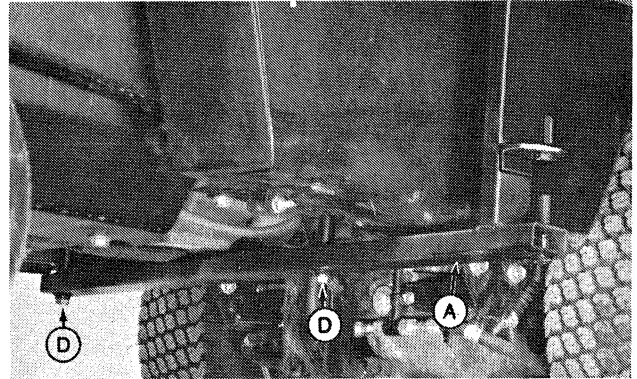
6. Fasten tie rods (A) to frame with M6 x 16 cap screws and lock nuts (B). Tighten lock nuts until 2 or 3 threads are exposed. Tie rods must pivot freely.



M40644

INSTALLING MCS

1. Install bracket (A) on frame. Use holes (B and C). Fasten bracket with two M12 x 90 cap screws (D) and lock nuts.

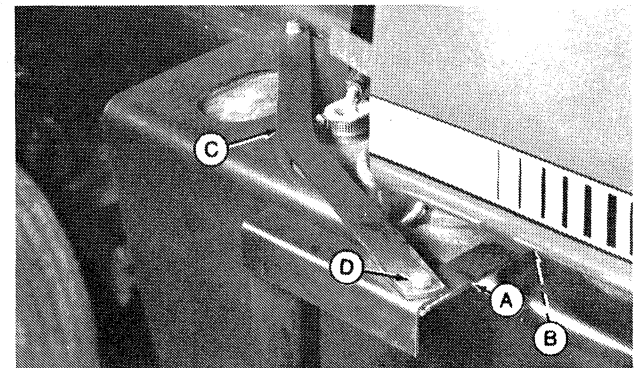


M40450 / M43101

2. Install strap (A) from frame stud (B), (second stud from top front of fuel tank shield) to bottom of bracket.

3. Install brace (C) from frame stud to top of bracket.

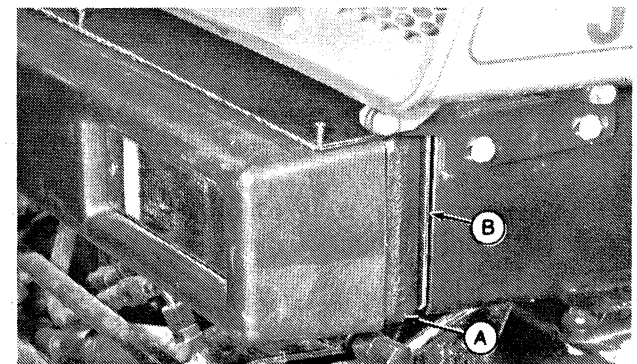
4. Fasten brace and strap to bracket with M8 x 20 cap screw (D) and crown lock nut.



M43102

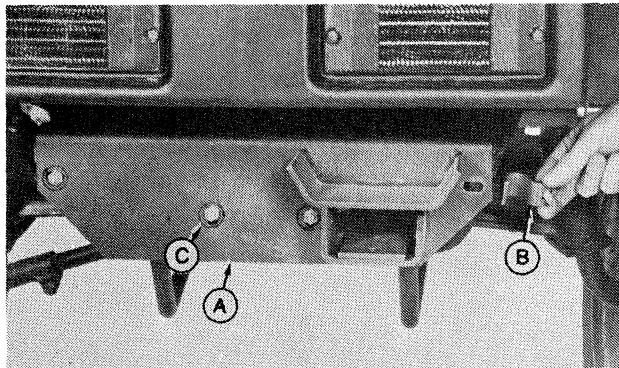
5. Mowers with plastic bumpers: Install L-bracket (B) between frame and first cast-iron weight (A).

Mowers with cast-iron bumpers: Install L-bracket (B) between frame and bumper.



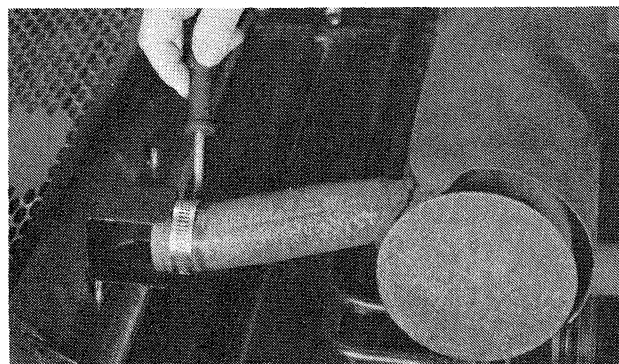
M40451

6. Install bracket (A) to steering cylinder guard with four clamps (B). Fasten it with M8 x 20 round-head cap screws, M8.4 x 25 x 2 washers, and crown lock nuts (C).



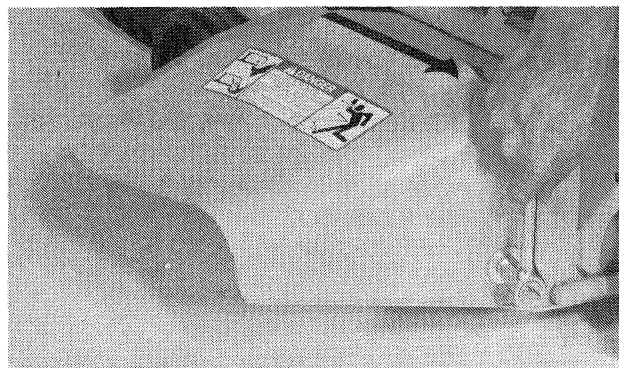
M43104

7. Install clamp and exhaust deflector on tail pipe. Fasten deflector with clamp.



M43105

8. Clean grass and dirt from underside of mower deck.
9. Remove two cap screws holding discharge chute.

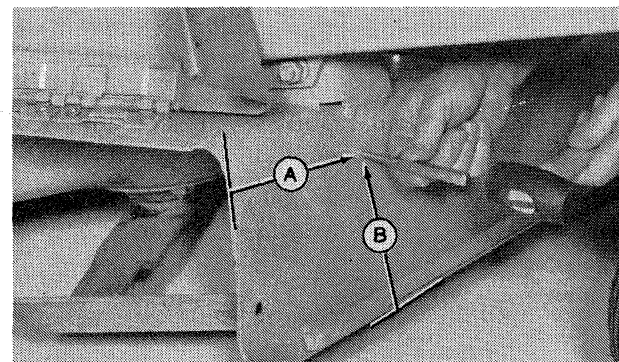


M40460

10. Tape chute up.

11. Mark location of inside hole for latch:
—For 50-inch mower, measure over (A) 5-5/16 in. (150 mm) and up (B) 4-3/8 in. (110 mm).
—For 60-inch mower, measure over (A) 6-1/2 in. (165 mm) and up (B) 6 in. (150 mm).

12. Punch and drill hole. Use No. 7 or 5 mm (7/32-in.) bit.



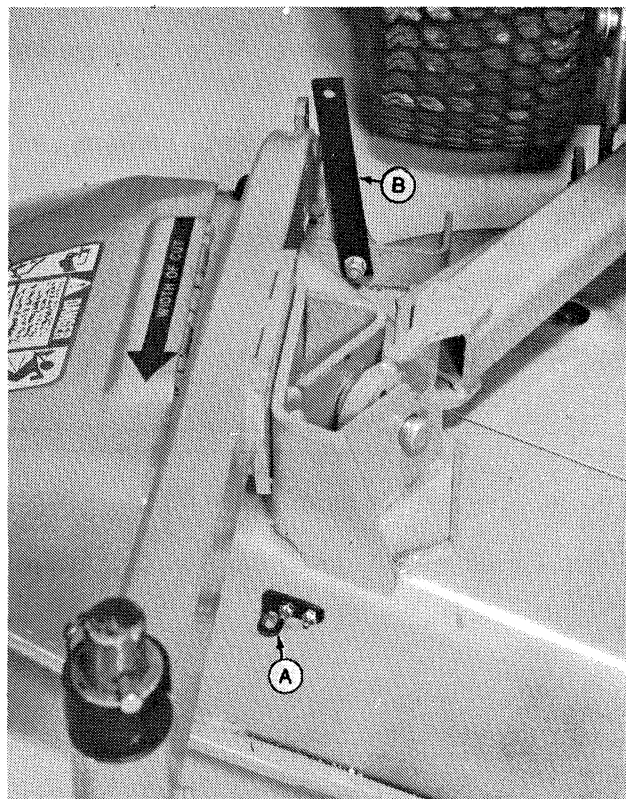
M43107

13. Install latch (A) on 60-inch mower deck as shown. (For 50-inch mower deck turn latch 180 degrees.) Fasten it with a No. 10 x 0.625 in. cap screw and lock nut.

14. Use latch as template to punch and drill outside hole.

15. Install second No. 10 x 0.625 in. cap screw and lock nut. Tighten both lock nuts.

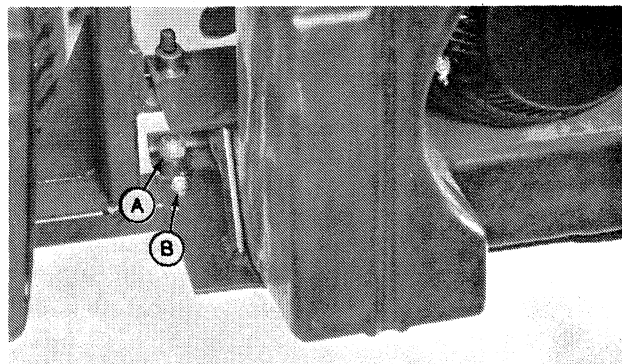
16. Install strap (B) on 60-inch mower deck.



M40452

17. Put Power-Pak on frame stud. Fasten it loosely with nut (A).

18. Install shear bolt (B) and fasten it with lock nut. Tighten nut (A).

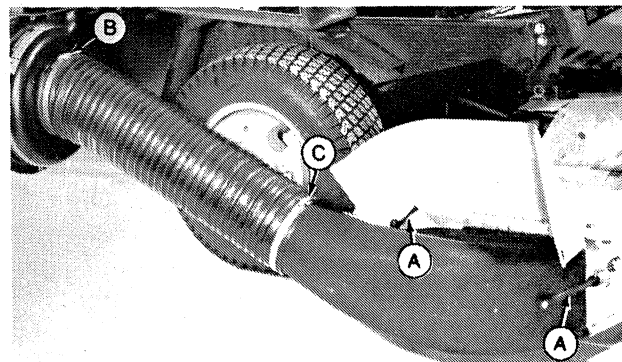


M40453

19. Install boot to mower deck. Fasten it with straps (A). (50-Inch Mower has one strap.)

20. Install hose to blower housing. Fasten it with clamp (B).

21. Tighten clamp (C).

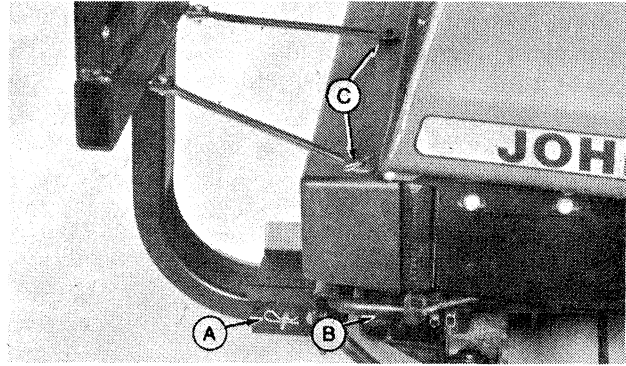


M43110

22. Install support on Front Mower. Fasten it with pin and spring locking pin (A).

23. Install tie rods on L-shaped bracket. If necessary, adjust steering cylinder guard (B).

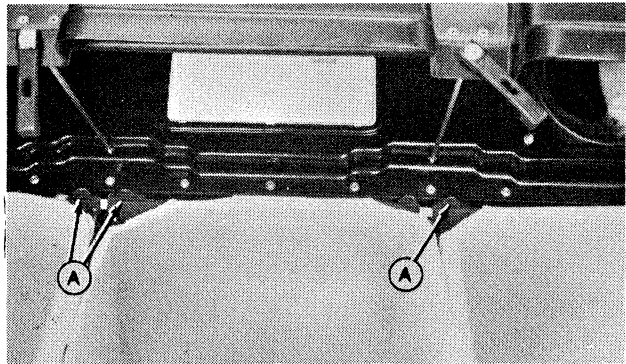
24. Fasten tie rods with spring locking pins (C).



M43350

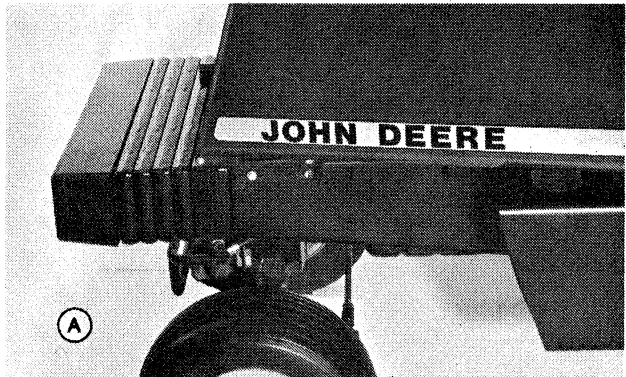
25. Install three bags on support tabs (A).

26. Bag frames must be level. Bend support tabs as needed.

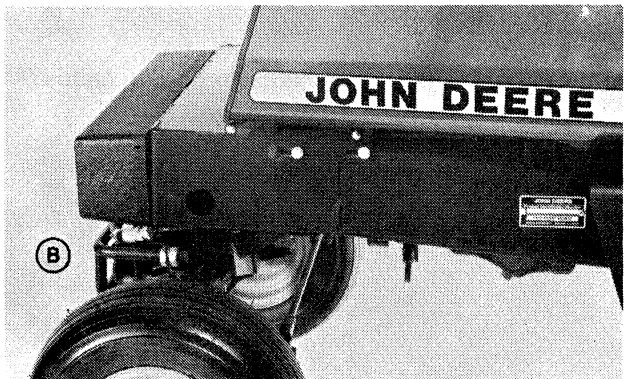


M40718

27. If you mount MCS on short frame FM Mower (A), cut approximately 7 in. (180 mm) from rear hose.



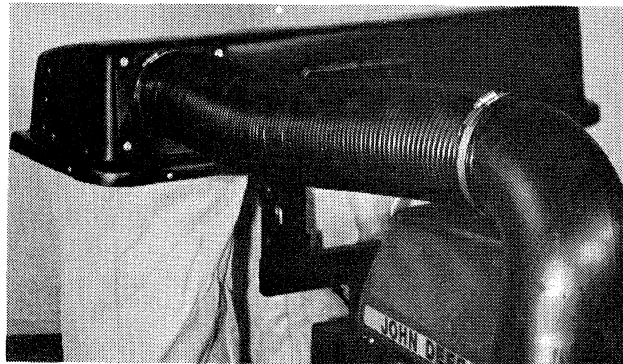
If you mount MCS on long frame (B), DO NOT cut rear hose.



M40454 / M40455

28. Install clamps on each end of hose.

29. Install hose on inlet chute and blower chute. Tighten clamps.



M43113

REMOVING MCS FROM FRONT MOWER



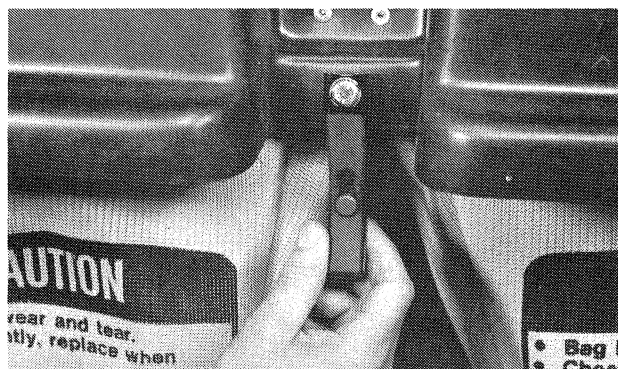
CAUTION: Stop Front Mower and Power-Pak engines before you remove MCS.

1. Remove rear hose.
2. Remove bags.
3. Remove support bracket assembly.
4. Remove boot assembly.
5. Remove Power-Pak.

Operating MCS

OPENING HOPPER TOP

1. Pull down hold-down and remove it from latch retainer.



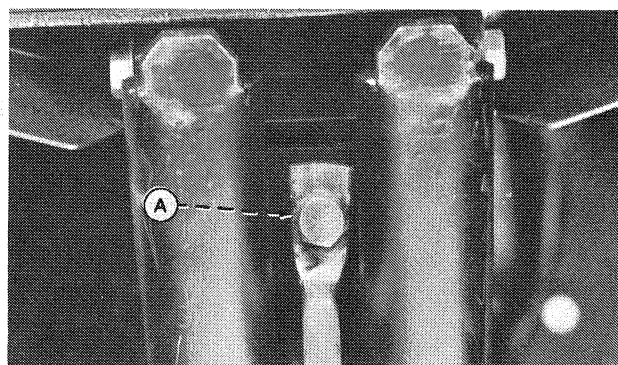
M43127

ADJUSTING LATCH RETAINER

There should be 3/4 to 1 in. (19 to 25 mm) stretch in rubber hold-down.

To adjust latch retainer:

1. Loosen cap screw (A) and move latch retainer up or down as needed. Tighten cap screw.
2. You may need to put extra flat washers between latch retainer and bag holder for desired stretch.



M43126

BAGGING TIPS

DO NOT cut wet grass. Wet grass will plug mower, blower and bagger.



CAUTION: If discharge chute gets plugged, do not try to unplug it while Front Mower or MCS are operating.

NOTE: Line cloth bags with plastic garbage bags to help prevent bags from wear.

IMPORTANT: Do not leave clippings in bag:
—Moisture may damage bags.
—Damp clippings are fire hazard.

Bag grass only when grass is dry and not tall (or dense).

MOWING TRAVEL SPEEDS

Use slow travel speed for:

1. Trimming.
2. Working in close quarters.
3. Mowing tall grass.

Use faster travel speeds for:

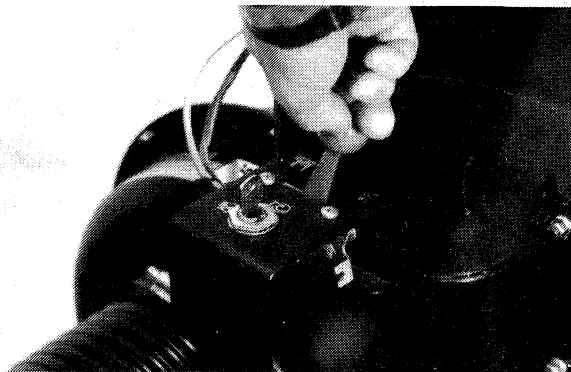
1. Normal mowing on level ground.
2. Driving between mowing jobs.

OPERATING TIPS



CAUTION: Do not use MCS unless it is attached to Front Mower.

1. Put Power-Pak engine throttle lever at slow position for short grass.
2. Put throttle lever at first stop for medium grass.
3. Push lever to right and forward for tall grass.
4. Slow engine speed if grass blows through bags or hopper top. Increase engine speed if grass clippings plug collector chute or hose.



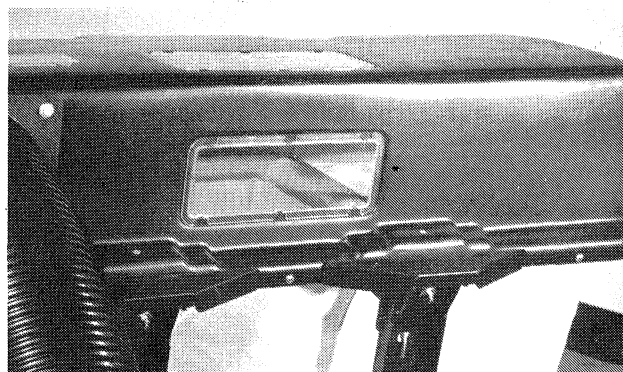
M43124

FILLING BAGS

Check window often.

Empty bags when clippings are up to window of hopper top or you may plug bagger chute.

Left bag normally fills first. Center and right bag may not fill completely when you cut thin strands of grass. Bags will fill if you slow Power-Pak engine speed.



M43130

DRIVING FRONT MOWER WITH MCS

IMPORTANT: Do not pull Front Mower and MCS with another vehicle.

Front Mower and MCS are not intended for use on streets or highways.

Fasten SMV sign to back of MCS.

Grass bags must be empty.

Drive carefully at safe speed.

Be careful when you drive on slopes.

Slow down when you make turns.

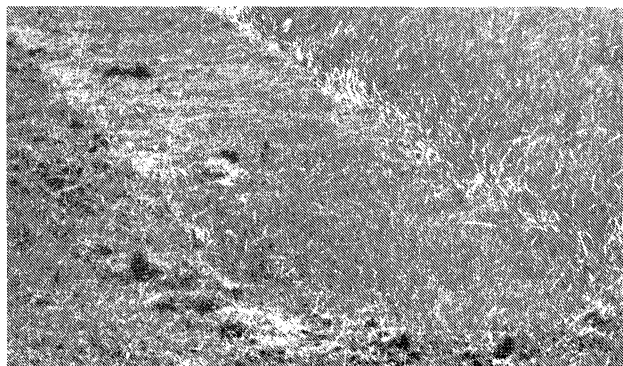
CHECKING FOR PLUGGING



CAUTION: If MCS plugs, stop Front Mower and Power-Pak engines before you unplug it.

If there is trail of clippings behind mower, check for plugged chute, hoses, or full bags.

Do not remove grass from blower or hoses while you sit on operator's seat.



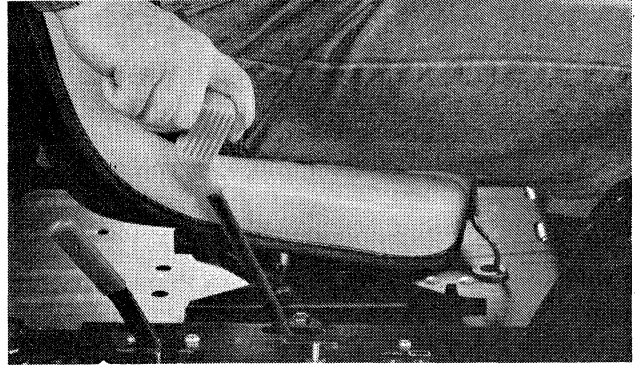
M32856

DISMOUNTING TO EMPTY OR CHECK BAGS



CAUTION: Before you service MCS: Stop Front Mower and Power-Pak engines.

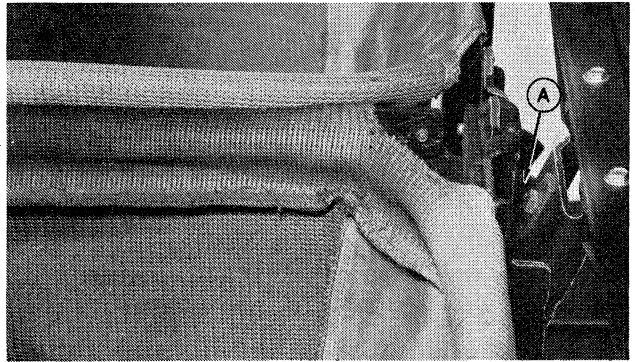
1. Stop PTO.
2. Stop Front Mower engines.
3. Stop Power-Pak engines.



M39486

CLEANING SUPPORT POSTS

Clean grass and leaves from top of support posts (A).



M43060

Troubleshooting

Problem	Solution	Section
Grass not being picked up completely.	1. Mow grass only when dry.	—
	2. Reduce Front Mower ground speed.	—
	3. Empty MCS.	Operating
	4. Clean screen in hopper top.	—
	5. Unplug chute.	—
	6. Adjust Power-Pak engine speed.	Operating
	7. Increase Front Mower engine speed to full throttle.	—
Collection boot and blower housing plug.	1. Mow grass only when dry.	—
	2. Empty MCS.	—
	3. Increase Power-Pak engine speed to full throttle.	Operating
	4. Clean screen in hopper top.	—
	5. Reduce Front Mower ground speed.	—
	6. Stop mower when MCS is full.	—
Power-Pak engine will not run.	1. Clean blower housing.	—

Specifications

SPECIFICATIONS

Used On 910, 912, 915, 930, 932, 935 Front Mowers
Approximate Volume of Bags 10 bu. (0.35 cubic meters)
Overall Height 36 in. (915 mm)
Overall Width 56 in. (1420 mm)

(Specifications and design subject to change without notice.)

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3-Bag Material Collection System (MCS): Front Mowers				
Parts Catalog	PC-2131		x	=
Operator's Manual	OM-M77709		x	=
			x	=
			x	=
			x	=
FOS Manual-Engines	FCP-80101B		x	=
FOS Manual-Electrical Systems	FCP-83101B		x	=
FOS Manual-Hydraulics	FCP-82101B		x	=
FOS Manual-Power Trains	FCP-81101B		x	=
Catalogs of Available Service Publications:				
Consumer Product Publications	CPC-1704			
Agricultural Product Publications	CPC-1703			
Industrial Product Publications	CPC-1852			

NOTE: If you want manuals or catalogs not shown on this list, list the model number, serial number and name of the product.

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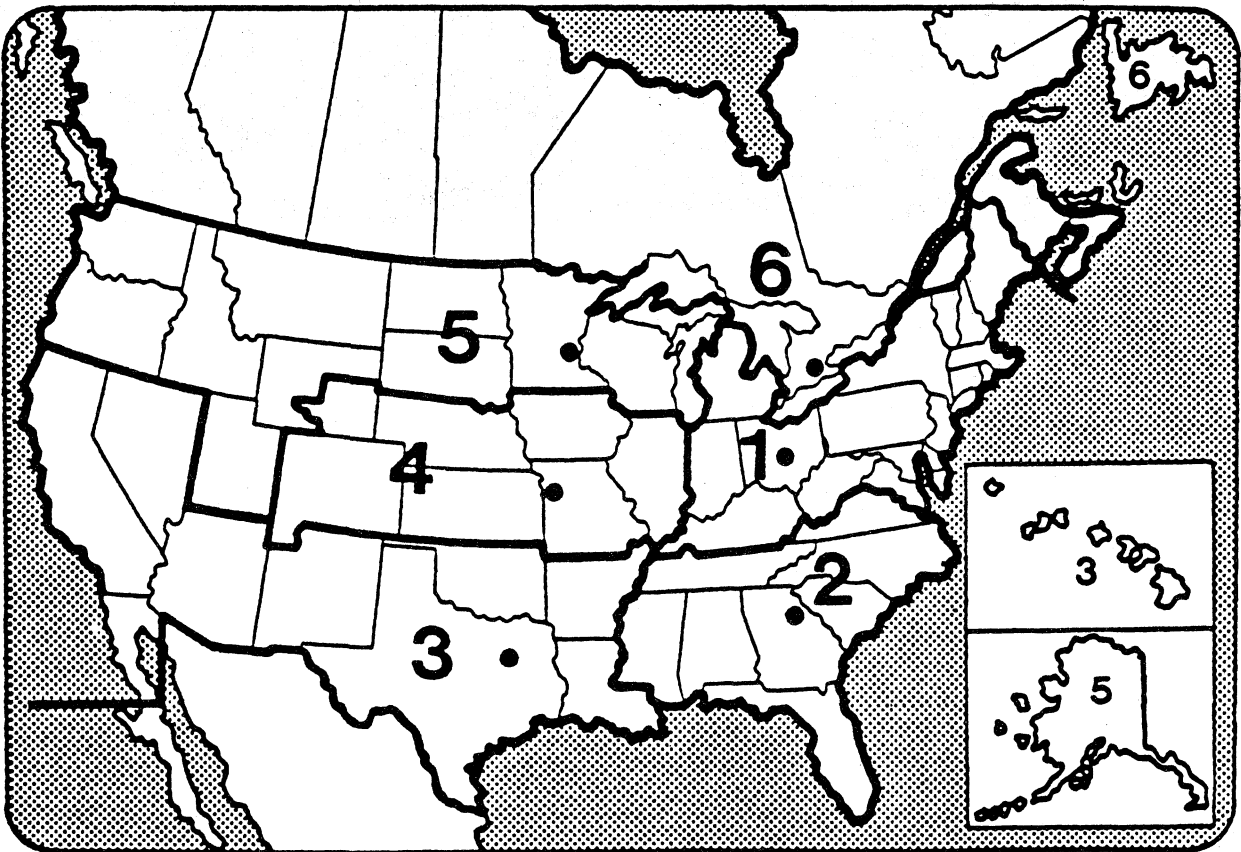
John Deere is at your service when you need it

It is John Deere's objective to train all of their authorized dealer service personnel effectively so they can handle your service needs. Your dealer therefore has service technicians who are trained to give your machine the best of care. We would encourage you to use the service provided by your dealer whenever possible.

If for some reason you are unable to locate a dealer in your area, our sales branches are available to provide you with such information. The location and listing of such sales branches are shown below. Check the listing for the location of the area in which you reside.

Sales Branch

- | | | |
|---|---|---|
| 1. JOHN DEERE COMPANY
701 Georgeville Road
Columbus, Ohio 43228
614-275-1500 | 3. JOHN DEERE COMPANY
10650 Hines Boulevard
Dallas, Texas 75220-2635
214-352-1701 | 5. JOHN DEERE COMPANY
2001 West 94th Street
Bloomington, Minnesota 55431-2311
612-887-6200 |
| 2. JOHN DEERE COMPANY
2001 Deere Drive
Conyers, Georgia 30208
404-922-7040 | 4. JOHN DEERE COMPANY
3210 East 85th Street
Southeast Station
Kansas City, Missouri 64132-2586
816-361-4000 | 6. JOHN DEERE COMPANY
South Service Road at Hunter
Grimsby, Ontario, Canada L3M 4H5
416-945-9281 |



SP-633 (Jun-87)

