

**JOHN DEERE**  
**WORLDWIDE COMMERCIAL & CONSUMER**  
**EQUIPMENT DIVISION**

---

**MCS For Compact Utility Tractors**  
**14 Bushel Rear Bagger**

OMLVU18333 F9

**OPERATOR'S MANUAL**



**JOHN DEERE**

**Original Instruction**

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

**COPYRIGHT© 2009**  
**Deere & Co.**

**John Deere Worldwide Commercial and Consumer Equipment Division**

**All rights reserved**  
**Previous Editions**  
**COPYRIGHT© 2006**

**North American Version**  
**Litho in U.S.A.**

# INTRODUCTION

## Introduction

### Using Your Operator's Manual

Read this entire operator's manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator's manual, along with the machine operator's manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call the John Deere Customer Contact Center at 1-800-537-8233 for assistance.

Warranty information on this John Deere attachment can be found in the warranty that came with your John Deere tractor or vehicle.

## Product Identification

### Product Compatibility

The 14-bushel bagger is compatible with the 48, 54 and 62 inch mower decks for the 2210, 2305, 2320, 2520, 2720 and 4115 compact utility tractors.

### Record Purchase Information

Record your purchase information in the spaces provided below.

DATE OF PURCHASE:

\_\_\_\_\_

DEALER NAME:.

\_\_\_\_\_

DEALER PHONE:

\_\_\_\_\_

## Safety Labels



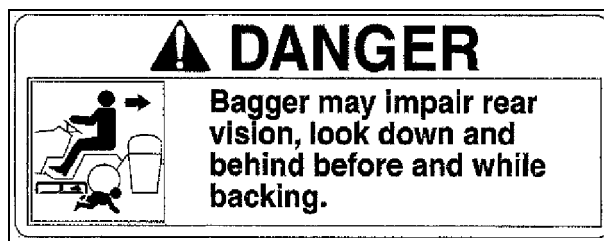
### Understanding The Machine Safety Labels

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

## DANGER



M146238

**Picture Note:** Located on front side of bagger hopper.

Bagger may impair rear vision, look down and behind before and while backing.

## WARNING - CAUTION



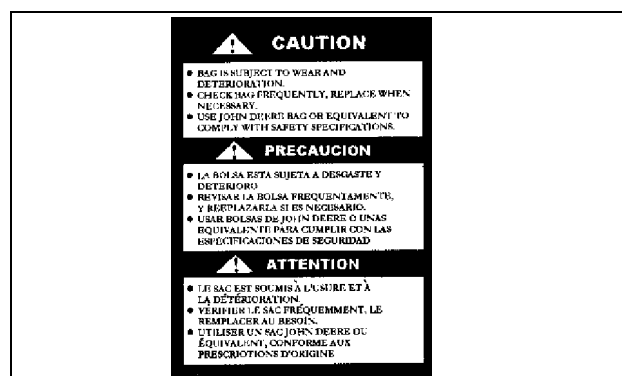
M151187

**Picture Note:** Located on rear side of bagger hopper.

To avoid injury from thrown objects, keep bystanders away. Shut off engine before opening hopper top. Keep chutes in place. Never allow riders on hopper top or on frame.

To avoid injury, ballast per operator's manual. Bag is subject to wear and deterioration, check bag frequently and replace, as necessary, with a John Deere bag or equivalent to comply with safety specifications.

## CAUTION



GC00215

- Bag is subject to wear and deterioration.
- Check bag frequently and replace when necessary.
- Use John Deere bag or equivalent to comply with safety specifications.

# SAFETY

## Safety

### Read Safety in Machine Operator's Manual

Read the general safety operating precautions in your machine operator's manual for additional safety information.

### Operating Safely

Read, understand and follow all instructions in this attachment manual, the machine operator's manual and safety signs on equipment before starting.

Use proper front ballast. Remove ballast when the material collection system is removed.

Hopper extends beyond machine. Be aware of surrounding objects when making short turns.

Do not operate material collection system unless entire grass catcher is fastened in place with hopper securely installed.

Do not let anyone ride on the mower or material collection system. Riders are subject to injury such as being struck by foreign objects or being thrown off. Riders may obstruct the operator's view and cause a collision.

#### Before hopper removal or installation:

- Stop mower.
- Disengage mower or PTO.
- Stop engine and remove key.
- Wait for engine and all moving parts to stop before leaving the operator seat.

#### Before backing up machine:

- Stop machine.
- Look behind hopper for children.
- Keep bystanders away when unloading material collection system.

#### Operate safely on slopes:

- Empty MCS when half full.
- Do not operate on steep slopes.
- Before turning, slow down.
- Avoid sudden starts and stops.
- Do not park machine with material collection system on slopes.

### Parking Safely

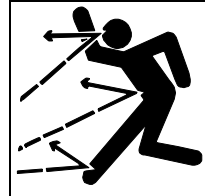
1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades or any other attachments.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.
8. Close fuel shut-off valve, if your machine is equipped.
9. Disconnect the negative battery cable or remove the spark plug wire(s) (for gasoline engines) before servicing the machine.

### Protect Children

- Tragic accidents can occur if the operator is not alert to the presence of

children. Keep children indoors when the machine and attachment are operated and under the watchful care of another responsible adult.

- Never assume that children will remain where you last saw them. Stay alert to the presence of children. Turn the machine off if a child enters the work area.
- Do not let children or an untrained person operate the machine.
- Do not carry or let children ride on any attachment or machine even with the attachment off. Do not tow children in a cart or trailer.



### Avoid Injury From Thrown Objects

- When operating the vehicle with the MCS attachment installed make sure all chutes and hoses are securely in place. Keep hopper closed or MCS in operating position.
- Stop the engine and wait for all moving parts to stop before removing or lifting any attachment components.
- Avoid injury from impeller blades and thrown objects. Remove attachment when operating vehicle in side discharge mode. Make sure deflector shield is in place on mower deck if attachment is removed.



### Avoid Injury From Rotating Blades

- Keep hands and feet away from rotating blades and blower assembly when engine is running.
- Stop engine and wait for moving parts to stop before servicing components.
- Do not operate MCS or blower unless all attachment components are in place and latched.

### Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service or adjust the machine or attachment while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachment completely to the ground or to an existing attachment mechanical stop before servicing the attachment. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers.
- Securely support any machine or attachment elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- Never run engine unless park brake is locked.

**<https://www.ebooklibonline.com>**

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

**<https://www.ebooklibonline.com>**

# ASSEMBLY

- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.
- Check all hardware at frequent intervals to be sure the equipment is in safe working condition.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

## Assembly

### Parts in Kit

#### Large Box



MX37764

Qty.	Description
1	Hopper (A)
2	Rod, Hopper Support (B)
1	Frame, Upper Mounting (C)
3	Grass Bag (D)
1	Bracket, SMV Mounting (E)
1	Slow Moving Vehicle (SMV) Sign (F)
1	Frame, Lower Mounting (G)
1	Bag of Parts

#### Small Box



MX36998

#### Qty. Description

1 Chute (A)

#### Parts in Bag

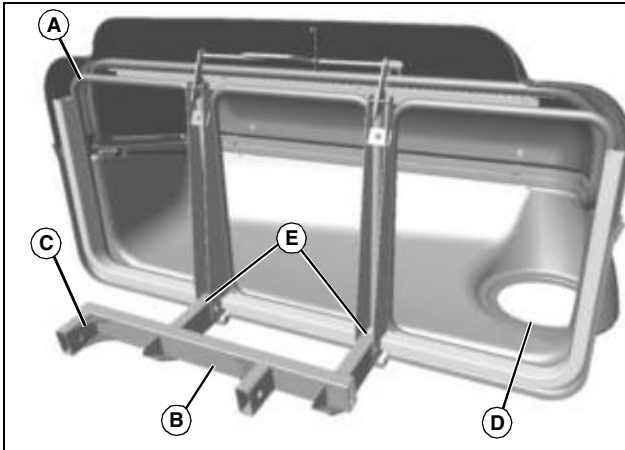
#### Qty. Description

2	Pin, Drilled
2	Cotter Pin
2	Carriage Bolt, M8x16
2	Nut, Flange, M8
4	Nut, Flange, M10
3	Bolt, M20x60
1	Washer, Large
3	Nut, Flange, M20
1	Pin
1	Spring Locking Pin
1	Bolt, Shear, M5x65
2	Washer, M5
1	Nut, M5
1	Strap, w/hook
1	Screw, Machine, 3/16 x 1-1/4 in.
2	Washer, 7/32 in.
1	Locknut, 3/16 in.
2	Capscrew, M6x16
4	Nut, M6
2	Capscrew, M6x20
2	Washer, 44 mm

# ASSEMBLY

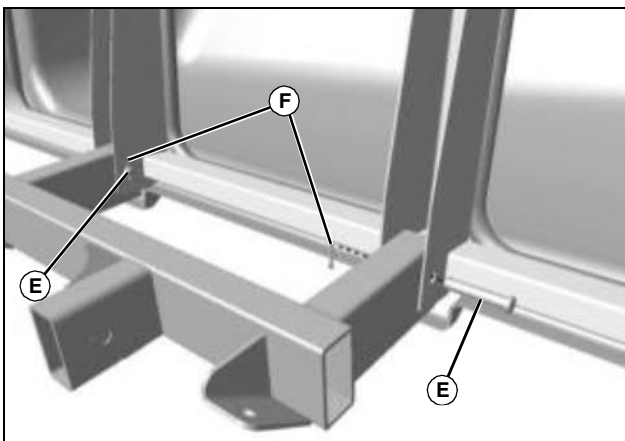
## Assemble Bagger

**IMPORTANT: Avoid damage! Allowing the hopper to contact abrasive surfaces can cause scratching.**



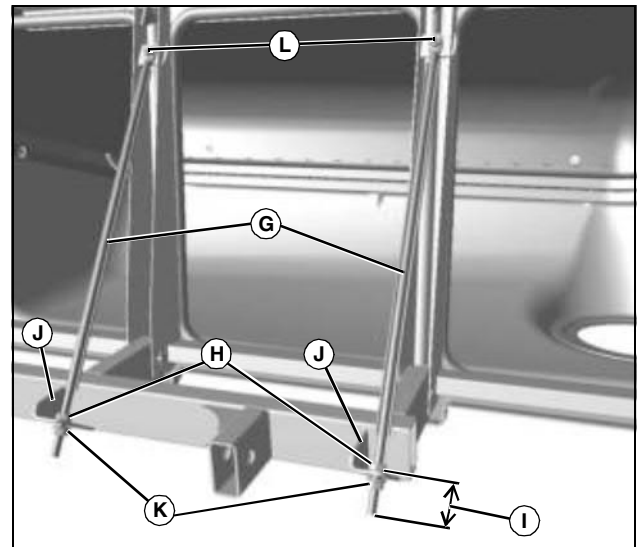
MX36999

1. Place hopper (A) on a non-abrasive surface with the lid facing up.
2. Position upper mounting frame (B) so longer arm (C) faces opposite hole (D) in hopper.
3. Slide upper mounting frame into bottom of hopper channel supports (E).



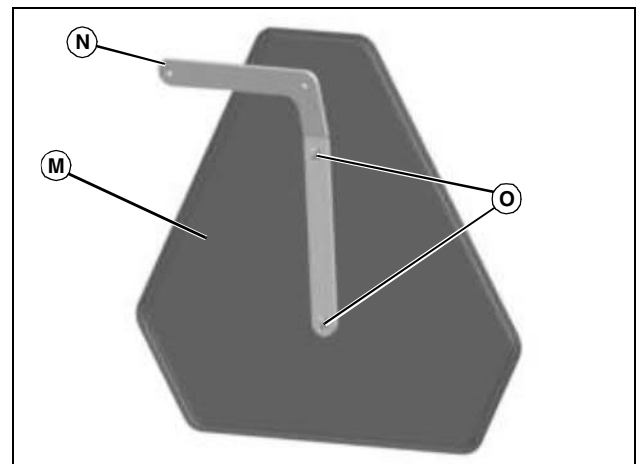
MX37000

4. Align holes in upper mounting frame with holes in channel supports. Install two drilled pins (E) from outside of channel supports.
5. Install two cotter pins (F) into holes in drilled pins. Secure the cotter pins by bending the ends with a pliers.



MX37001

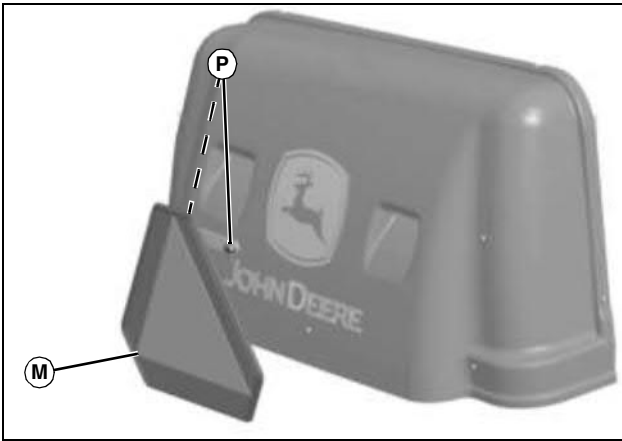
6. Obtain hopper support rods (G). Install one M10 flange nut (H) onto each rod so flange faces down toward threaded end of rod. Turn the nuts onto the rods a distance (I) of 40 mm (1-9/16 in.) from nut flange to bottom of threaded rod.
7. Insert the hopper support rods into upper mounting frame brackets (J). Install one M10 flange nut (K) onto each rod end so flange faces bracket. Do not tighten the nuts.
8. Rotate each rod so angled plate on rod faces toward hopper, and secure other end of each support rod to the hopper support channel using M8x16 carriage bolt (L) and M8 flange nut (nuts to the outside). Tighten M8 nuts.
9. Maintain the preset position of top M10 flange nuts (H). Tighten lower M10 flange nuts (K).



MX37749

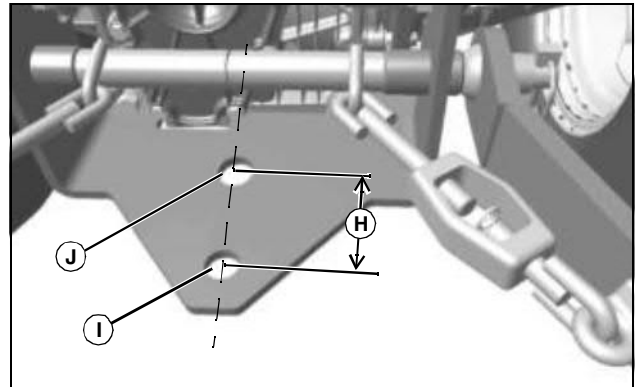
10. Attach slow moving vehicle (SMV) sign (M) to mounting bracket (N) with two M6x16 capscrews and M6 nuts (O).

# PREPARING VEHICLE



MX37750

11. Attach bracket with slow moving vehicle sign (M) onto left side hopper lid holes with two M6x20 capscrews (P), and 44 mm washers and M6 nuts on the inside of hopper lid.



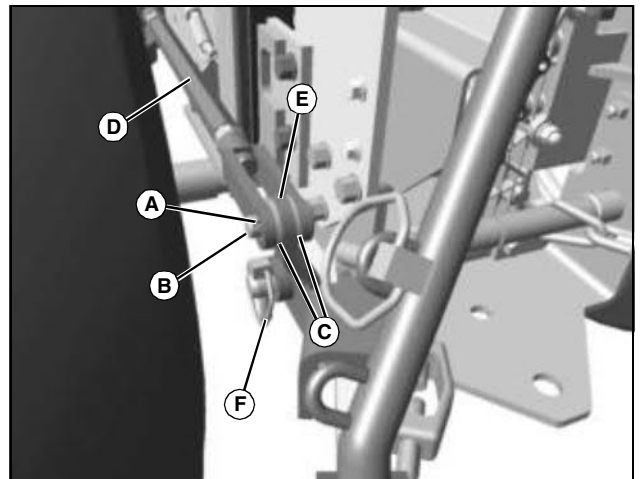
MX37002

5. Secure rear hitch for drilling, and measure 102 mm (4 in.) (H) from centerline of hole (I). Center punch hole, and drill a 21 mm (53/64 in.) hole (J) in rear hitch.

6. Install components back onto machine, reverse of removal.

## Drill Holes in Bellcrank and Lift Arms (2210 and 2305 CUTS)

**NOTE:** If an independent lift kit has been installed on tractor, you do not have to perform this procedure.



MX35199

1. If bellcrank is already installed on machine, remove 3.2x25 mm cotter pin (A), 5/8x1-39/64 in. drilled pin (B), two 11/16 in. washers (C), and disconnect lift rod assembly (D) from top hole in bellcrank (E).

2. Remove quick-locking pin (F), and bellcrank (E) from pivot shaft.

## Preparing Vehicle

### Preparing the Vehicle

**NOTE:** Read and complete the Assembly Section if installing the attachment for the first time.

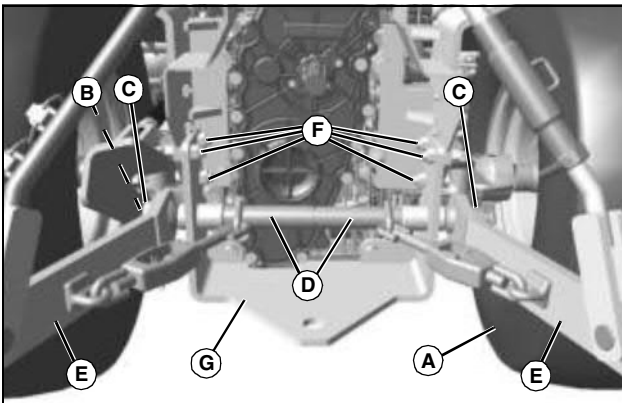
#### Required Equipment

- POWER FLOW™

#### Machine Setup

- Check tire pressure of machine before operating machine.

### Drill Hole in Hitch Bracket (2210 CUT)



MX17405

1. Remove right side rear wheel (A).
2. Remove lynch pin (B) from pivot shaft.
3. Slide pivot shaft to right side, and remove shaft from spacers (C), anti-sway links (D), and draft arm (E).
4. Remove hardware (F) and hitch bracket (G).



**Suggest:**

**If the above button click is invalid.**

**Please download this document**

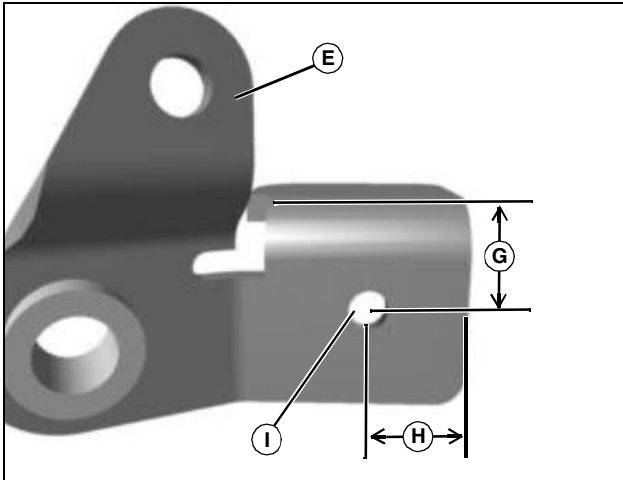
**first, and then click the above link**

**to download the complete manual.**

**Thank you so much for reading**

# INSTALLING

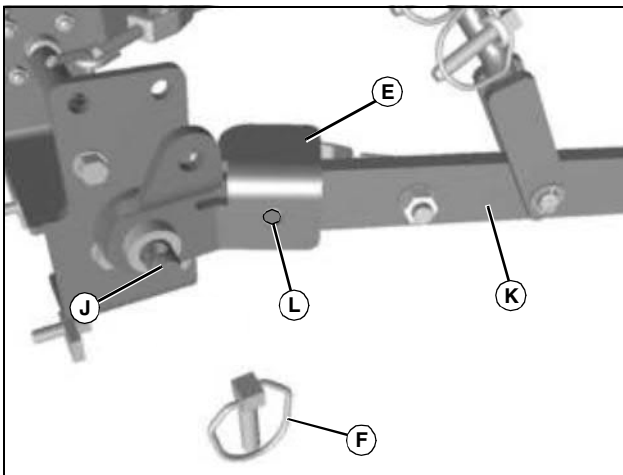
**NOTE:** If bellcrank is not already installed on machine, obtain bellcrank from mechanical lift kit.



MX37013

3. Measure 34.75 mm (1-3/8 in.) (G) from top and 33.85 mm (1-21/64 in.) (H) from right, and drill a 6.35 mm (1/4 in.) hole (I) in bellcrank (E).

**NOTE:** This drilling feature is only needed on left lift arm.



MX37015

4. Install bellcrank (E) onto pivot shaft (J). Install quick-locking pin (F) onto pivot shaft (J).

5. Move arm (K) outward against side of bellcrank (E), as shown. Make a drill mark on left lift arm through hole (L). Remove quick-locking pin and bellcrank, and drill a 7.9 mm (5/16 in.) hole in drill mark on arm (K).

## Installing

### Install Ballast



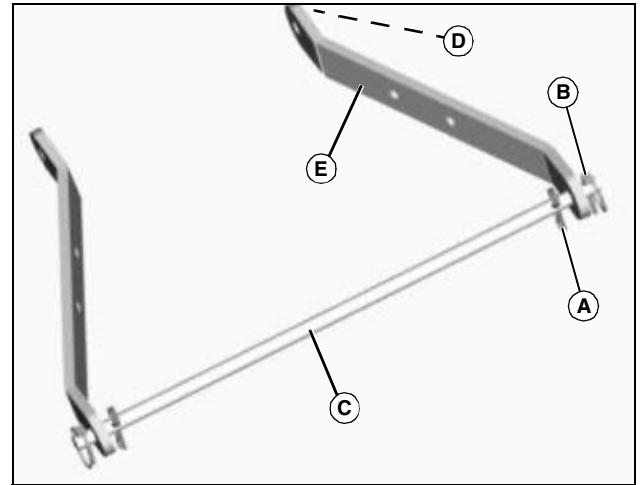
**CAUTION:** Avoid injury! When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

Front ballast is recommended to counterbalance the rear bagger:

- Install five 19 kg (42 lb) suitcase weights on front of machine.

### Installing Bellcrank (2210 and 2305 CUTS)

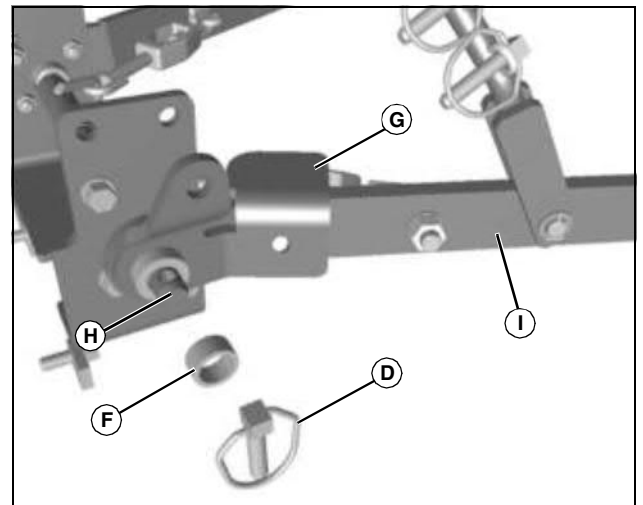


MX16519a

1. Remove spring locking pin (A) and quick-locking pin (B), and slide spreader bar (C) off of holes in rear lift arms.

2. Remove quick-locking pin (D) and spacer from pivot shaft, and remove the right lift arm (E) and lift link (to prevent it from damaging the MCS frame). Install spacer and quick-locking pin back onto pivot shaft.

**NOTE:** The bellcrank needs to be installed on left lift arm. This is done to move the lift arm as close as possible to the bellcrank to avoid the MCS frame in the raised position.



MX37015

3. If bellcrank has not been installed before, remove quick-locking pin (D) and spacer (F) from left lift arm assembly. Retain spacer for future use.

4. Install bellcrank (G) onto pivot shaft (H), aligning hole in bellcrank with hole in left lift arm (I). Install quick-locking pin (D) onto pivot shaft (H).

**<https://www.ebooklibonline.com>**

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

**<https://www.ebooklibonline.com>**