

Material Collection Utility Cart MC519



JOHN DEERE

OPERATOR'S MANUAL

Material Collection Utility Cart MC519

OMM172649 ISSUE A4 (MULTI-LINGUAL)

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.
Additional Proposition 65 Warnings can be found in this manual.

John Deere Horicon Works

North American Version
Litho in U.S.A.



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Material Collection Utility Cart MC519



OPERATOR'S MANUAL Material Collection Utility Cart MC519

OMM172649 ISSUE A4 (ENGLISH)

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Introduction

Thank You for Purchasing a John Deere Product

We appreciate having you as a customer and wish you many years of safe and satisfied use of your machine.

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 1-866-218-8622 for assistance.

Special Messages

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

 **CAUTION: Avoid injury! This symbol and text highlight potential hazards or death to the operator or bystanders that may occur if the hazards or procedures are ignored.**

IMPORTANT: Avoid damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.

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Original Instructions. 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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Product Identification

Product Compatibility

This material collection utility cart is compatible with the X320, X324, X340, X360, X500, X520, X530, X534, and X540 tractors.

Record Purchase Information

Material Collection Utility Cart

MC519

Record your purchase information in the spaces provided below.

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

Safety

Understanding the Machine Safety Labels



T81389—UN—28JUN13

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.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Spanish Safety Signs and Operator's Manual

Spanish versions of the operator's manual and safety signs are available for this machine through authorized John Deere dealers. See your John Deere dealer.

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.
- This attachment is intended for use in lawn care and home applications. Do not tow behind a vehicle on a highway or in any high speed application. Do not tow at speeds higher than maximum recommended towing speed.
- Towing speed should always be slow enough to maintain control. Travel slowly over rough ground.
- Do not operate material collection system unless entire grass catcher is fastened in place with enclosure securely attached to cart.

- 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.
- Check machine brake action before you operate. Adjust or service brakes as necessary.
- 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.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.
- Reduce loaded cart weight on slippery surfaces.
- Traction decreases when moving in reverse.
- Tractor and operator must exceed weight of loaded cart.

Before backing up machine:

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

Enclosure Maintenance:

- Enclosure is subject to wear and deterioration.
- Check enclosure frequently; replace when necessary.
- Use John Deere enclosure or equivalent to comply with safety specifications.
- Do not leave clippings in cart overnight.

Replace Safety Signs



TS201—UN—15APR13

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Safety

WARNING

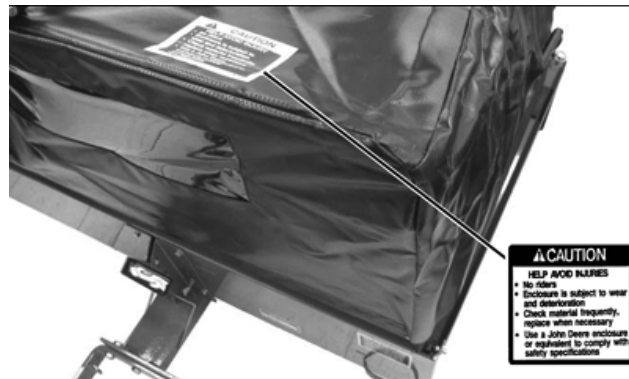


MX10464—UN—28NOV13

THROWN OBJECTS

Do Not operate mower without chutes and hoses securely in place.

CAUTION



PY19119—UN—28NOV13

HELP AVOID INJURIES

- No Riders
- Enclosure is subject to wear and deterioration.
- Check material frequently, replace when necessary.
- Use a John Deere enclosure or equivalent to comply with safety specifications.

CAUTION



MX10462A—UN—28NOV13

HELP AVOID BODILY INJURY DUE TO LOSS OF TRACTION

- Tractor and Operator combined weight must exceed cart weight.
- Reduce loaded cart weight on slippery surfaces.
- Traction decreases in reverse.
- Do Not exceed 227 kg (500 lb.) cart load.
- Read operator's manual.

Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage Power Take-Off (PTO).
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 shutoff valve, if your machine is equipped.

Operate Safely

- Check machine brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure that hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure that guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.

Safety



M41423—UN—30AUG88

- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained and in good working
- Do not leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Do not let anyone, especially children, ride on machine or attachment.
- Do not let children or an untrained person operate machine.
- Do not operate machine if you are under the influence of drugs or alcohol.
- Do not operate machine at high speeds when you tow the cart.
- Travel slowly over rough ground.
- Enclosure is subject to wear and deterioration. Check material frequently, replace when necessary.
- Use a John Deere enclosure or equivalent to comply with safety specifications.

Wear Appropriate Clothing

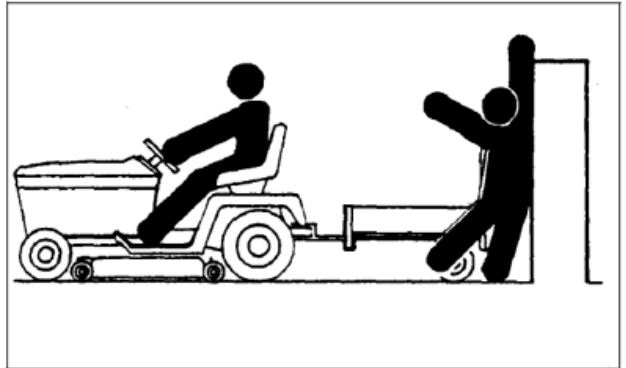


TS206TR—UN—28NOV13

- Wear close fitting clothing and safety equipment appropriate for the job.

- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

Protect Bystanders



PY19104—UN—28NOV13

- Keep bystanders away when you operate cart.
- Before you back tractor and cart, look carefully behind cart for bystanders.

Keep Riders Off Cart



M74741—UN—06NOV91

Keep riders out of cart.

Riders in cart are subject to injury, such as being struck by objects and being thrown off the cart during sudden starts, stops and turns.

Riders obstruct the operator's view, resulting in the cart being used in an unsafe manner.

Keep riders off of Quik-Tatch bracket.

Safety

Keep Feet From Under Drawbar



M63412—UN—28NOV13

Before you disconnect cart from tractor hitch plate:

- Unload cart.
- Stop cart on level ground.
- Stop engine.
- Lock park brake.
- Block cart wheels.
- Make sure that feet are not under drawbar.

Keep Feet From Under Material Collection Cart



M63410—UN—28NOV13

Before you service, clean or inspect cart:

- Stop engine.
- Lock park brake.
- Make sure that dump lever is in locked position.
- Make sure that feet are not under material collection cart.

Avoid Tipping And Skidding

- Weight of tractor and operator must be more than weight of cart and load.
- A safe load on dry, level ground may cause the tractor to lose traction and skid on slippery or sloped ground.
- Do not use cart near edge of ditch or bank.

- Avoid holes, rocks, and roots.
- Slow down before you turn.
- Do not tow cart with box raised.
- Do not back up cart with box raised.

Practice Safe Maintenance



MXAL41933—UN—18FEB13

- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before servicing machine, lower it to the ground. Disengage all power and stop the engine. Move hydraulic lift levers back and forth to relieve pressure. Lock park brake and remove the key. Let engine cool.
- Securely support any machine elements that must be raised for service work.
- Never run engine unless park brake is locked.
- 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.
- Unauthorized modifications to the machine may impair its function and warranty.

Avoid Injury From Thrown Objects



MXAL41932—UN—22MAY13

- When operating the vehicle with the MCS attachment installed make sure all chutes and hoses are securely in place. Keep hopper top 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

Safety

discharge mode. Make sure deflector shield is in place on mower deck if attachment is removed.

Safety

Towing Loads Safely

- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance to stop.
- Total towed weight must not exceed limits specified in towing vehicle operator's manual.
- Excessive towed load can cause loss of traction and loss of control on slopes. Reduce towed weight when operating on slopes.
- Never allow children or others in or on towed equipment.
- Use only approved hitches. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the approved hitch point.
- Follow the manufacturer's recommendations for weight limits for towed equipment and towing on slopes. Use counterweights or wheel weights as described in the machine operator's manual.
- Do not turn sharply. Use additional caution when turning or operating under adverse surface conditions. Use care when reversing.
- Do not shift to neutral and coast downhill.

Avoid Injury From Drawbar

Before you disconnect an attachment from machine hitch plate:

- Unload attachment.
- Stop attachment on level ground.
- Stop machine engine.
- Lock machine park brake
- Block attachment wheels.
- Make sure hands, feet or other body parts are not under drawbar.

Assembly

Identify Parts

Parts in Large Box:

- Cover
- POWERFLOW Chute
- Cart Box
- Wheel Assembly
- Lift Handle Bracket Assembly
- Side Support, Cover (1)
- Support Rod, Cover (2)
- Gas Cylinder, Preloaded

Parts in Small Box:

- Cable and Chain Assembly
- Bail Assembly
- Cover Latch Lever Assembly
- Gas Cylinder Bracket
- Three Parts Bags

First Parts Bag (Slide Plate and Hardware)

Qty.	Description	Size
2	Slide Plate	
2	Carriage Bolt	3/8 x 1-1/2 in.
4	Washer	3/8 in.
2	Spring	
2	Lock Nut	3/8 in.
1	Chain Bracket, Flat	
1	Chain Link	

Second Parts Bag (Locking Latch and Hardware)

Qty.	Description	Size
1	Plate, Locking Latch	
1	Bolt, Hex Head	5/16 x 3/4 in.
1	Locknut	5/16 in.
1	Cap, Black Vinyl	
4	Carriage Bolt	1/4 x 1-1/2 in.
4	Locknut	1/4 in.
3	Locking Ring	
1	S-Hook	
1	Chain Bracket, Chain-Type	
1	Washer	5/16

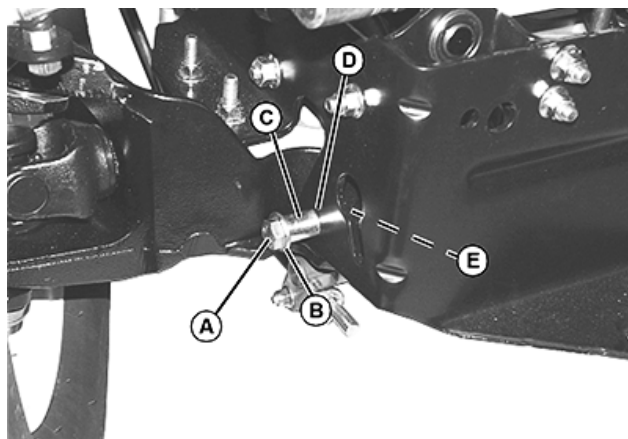
Third Parts Bag (Cargo Box Latches and Hardware)

Qty.	Description	Size
4	Bolt, Hex Head	5/16 x 3/4 in.
4	Locknut	5/16 in.
2	Bolt, Hex Head	3/8 x 4-1/2 in.
2	Locknut	3/8 in.
3	Bolt, Hex Head	1/2 x 1-1/4 in.
2	Bolt, Hex Head	1/2 x 2 in.
5	Lock washer	1/2 in.
2	Spacer	

Qty.	Description	Size
2	Washer, Flat	1/2 in.
5	Nut	1/2 in.

Installing MC519 Cart Hardware

1. Move tractor and cart to level ground.
2. Stop engine.
3. Lock park brake.
4. Remove rear suitcase weights, if tractor is so equipped. These weights are not compatible with cart. Rear wheel weights are used if ballast is required.

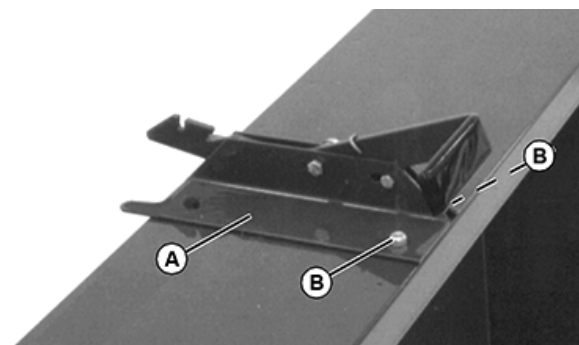


MXAL47977—UN—21MAY13

5. Insert 1/2 x 2 in. hex head bolts (A), wide washer (B), and spacer (C) through lower holes (D) on both sides of tractor rear frame.
6. From the inside of frame, install 1/2 in. lock washers and 1/2 in. nuts (E). Tighten hardware securely.

Install Lift Handle Bracket

NOTE: Tip cart box on end for ease of installation.



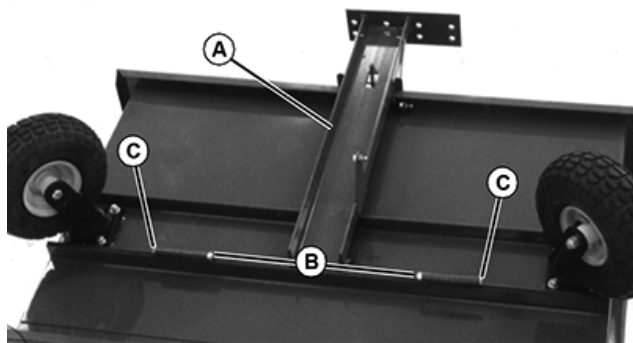
MXAL47980—UN—21MAY13

1. Place lift handle bracket (A) on MC519 cart box and fasten top part of bracket with two 5/16 x 3/4 in. hex head bolts (B), and locknuts, with locknuts to the inside of cart box. **Do not tighten nuts at this time.**

Assembly

Install Drawbar Assembly

NOTE: Tip cart box flat for ease of installation



MXAL47981—UN—21MAY13

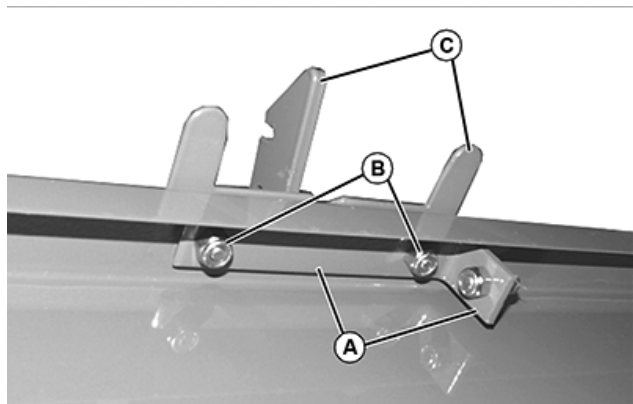
1. Attach drawbar assembly (A) to MC519 cart with two 3/8 x 4-1/2 in. hex head bolts (B) (one on each side) and locknuts (C).

NOTE: Do not overtighten nuts. Drawbar must pivot freely.

2. Tighten nuts for drawbar only.

Install Gas Cylinder Bracket

NOTE: Tip cart box on end for ease of installation.



MXAL47982—UN—21MAY13

1. Install gas cylinder bracket (A) on cart, and fasten with two 5/16 x 3/4 in. hex head bolts and locknuts (B).

NOTE: Bolts go through lift handle bracket (C) first and then gas cylinder bracket (A).

2. Do not tighten nuts at this time.

Install Latch On Drawbar



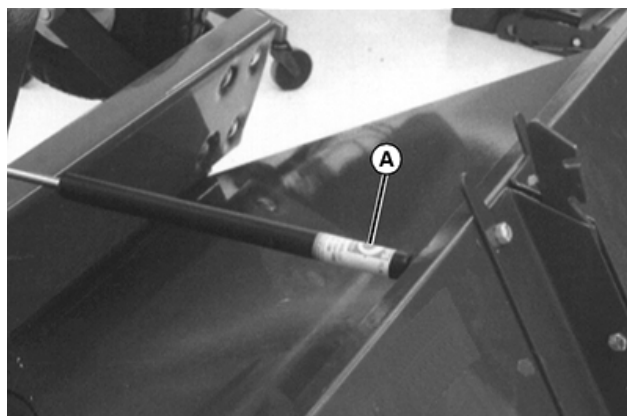
PY18619—UN—28NOV13

1. Align lift bracket with drawbar, and tighten all four nuts to secure lift bracket and cylinder bracket.

Install Preloaded Gas Cylinder

1. Release dump latch lever.

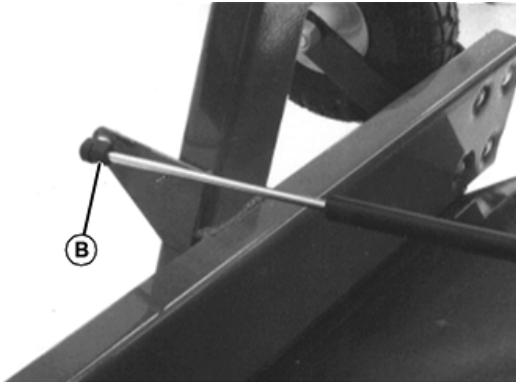
NOTE: Tip cart box on end and open for ease of installation.



MXAL47985—UN—21MAY13

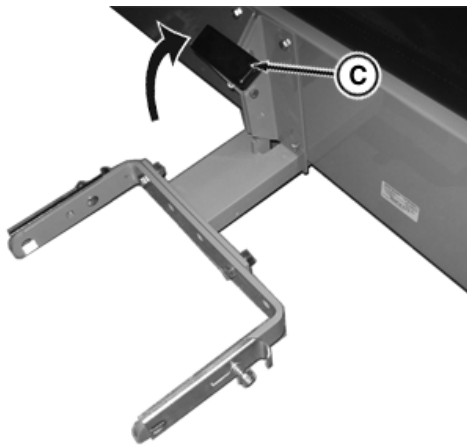
2. Install barrel end of gas cylinder (A) on ball joint closest to cart box.

Assembly



MXAL47986—UN—21MAY13

3. Install rod end of gas cylinder (B) on ball joint closest to wheel assembly.

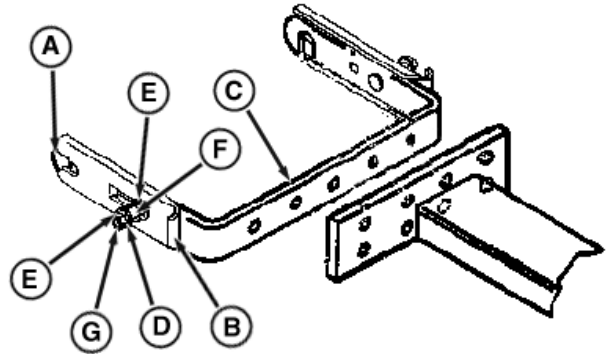


PY19138—UN—03DEC13

4. Push down on drawbar and latch lift lever bracket (C) to locked position.
5. Return cart to the upright or operational position.

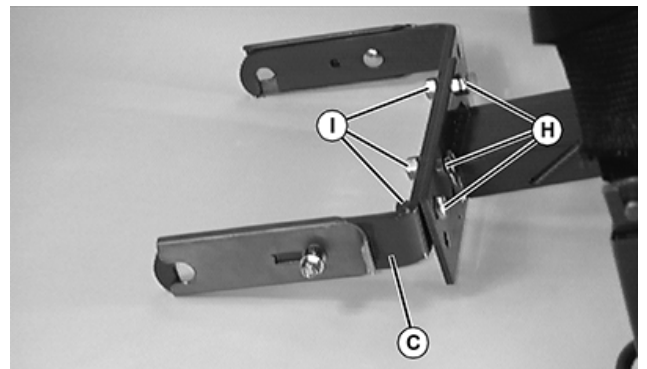
Assemble and Install QUIK-TATCH™ Bracket

NOTE: Make sure wide leg (A) of each slide plate (B) is to the top of quik-tatch bracket.



PY19173—UN—10JAN14

1. Assemble each slide plate (B) to the outside of quik-tatch bracket (C) with 3/8 x 1-1/2 in. carriage bolt (D) (bolt head to the inside), one washer (E), spring (F), a second washer (E), and then 3/8 in. locknut (G).



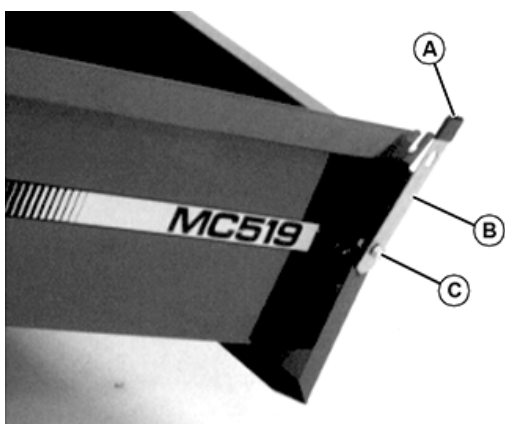
MXAL47989—UN—21MAY13

2. Install QUIK-TATCH bracket (C) to drawbar with three 1/2 x 1-1/4 in. hex head bolts (H), lockwashers and 1/2 in. nuts (I).
3. Finger tighten nuts until proper cart location is determined.

Install Locking Latch To Cart

NOTE: Bolt goes through hole closest to top of cart, and tab on latch goes in bottom hole on cart.

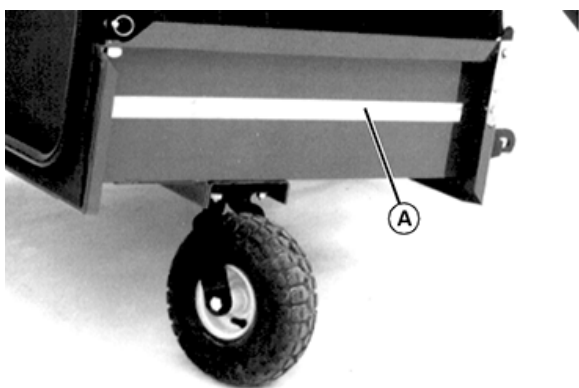
Assembly



MXAL47994—UN—21MAY13

1. Install vinyl cap (A) on latch.
2. Install locking latch (B) on cart with one 5/16 x 3/4 in. hex head bolt (C), and locknut.
3. Tighten locknut.

Remove Protective Covering From Decals On Cart Box



MXAL47995—UN—21MAY13

Remove protective covering (A) from decals located on both sides of cart box.

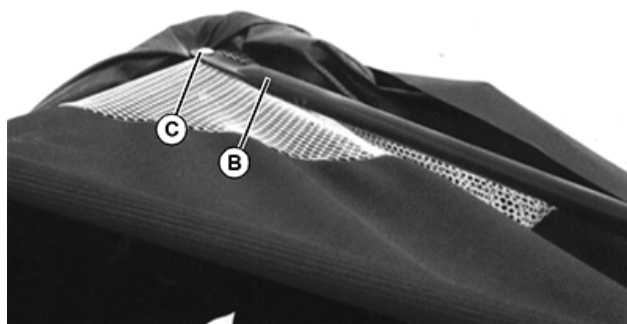
Assemble Cover

NOTE: For ease of installation, place bagger on its side.



MXAL47996—UN—21MAY13

1. Push front support rod (A) to the inside of cover.



MXAL47997—UN—21MAY13

2. Install one end of side support tubing (B) on front cover support.

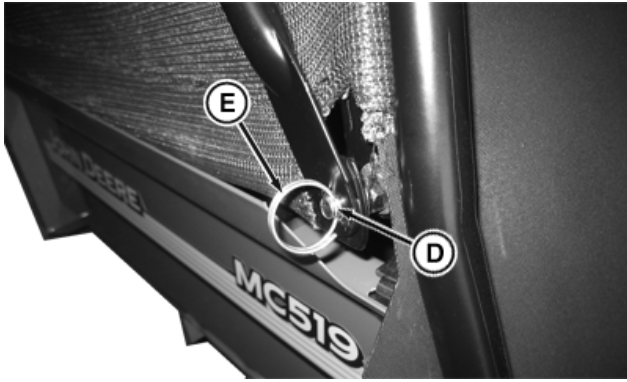
NOTE: Make sure bolt goes through mesh material (under cover flap) and support rod under cover. Put locknut to the inside of cover.

3. Fasten with one 1/4 x 1-1/2 in. carriage bolt (C) and locknut.

NOTE: Do not overtighten nut. Side support tubing must pivot freely to collapse cover.

4. Tighten nut.

Assembly

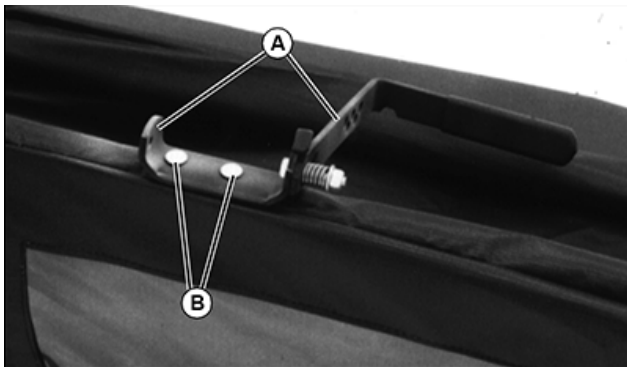


PY18617—UN—28NOV13

5. Install other end of side support tubing on stud (D), and fasten with spring locking ring (E).
6. Repeat Steps 2 - 5 for other side of front cover.

Install Cover Latch Bracket

NOTE: Make sure bolt goes through frame and slits in cover. Put locknuts to the inside of cover.



MXAL47999—UN—21MAY13

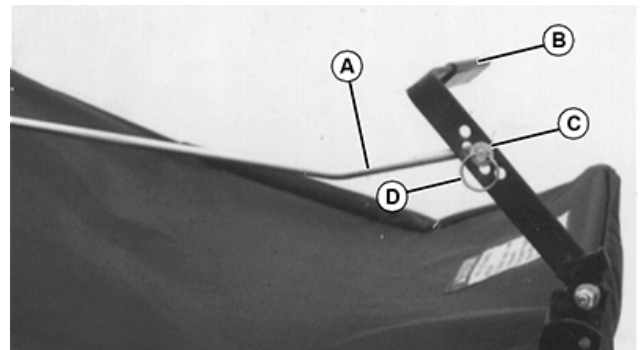
1. Install lift bracket (A) on cover, and fasten with two 1/4 x 1-1/2 in. carriage bolts and locknuts (B).
2. Tighten nuts.

Install Cover Latch Rod



MXAL48000—UN—21MAY13

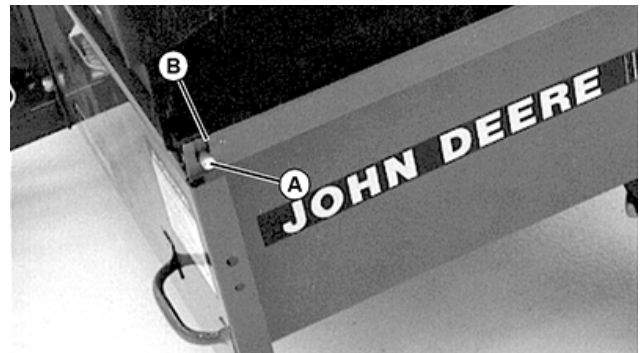
1. Install end of cover latch rod (A) (end with two bends) through hole in cover, and hole in cover support.



MXAL48001—UN—21MAY13

2. Put other end of cover latch rod (A) (end with one bend) in center hole on cover latch bracket (B).
3. Put 5/16 in. washer (C) on cover latch rod and fasten with locking ring (D).

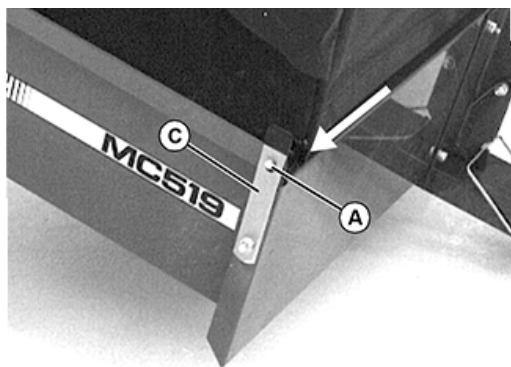
Install Cover



MXAL48002—UN—21MAY13

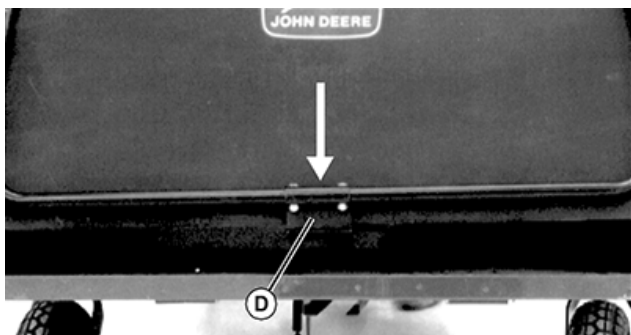
1. Put pivot rod (A) through hole on left-hand corner of cart box flange (B).

Assembly



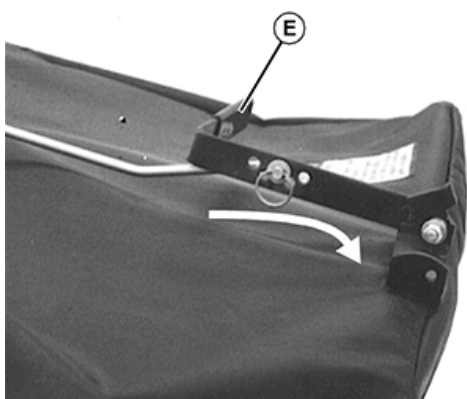
MXAL48003—UN—21MAY13

2. Pull cover attaching latch (C) outward.
3. Slide pivot rod (A) in slot and release latch.



MXAL48004—UN—21MAY13

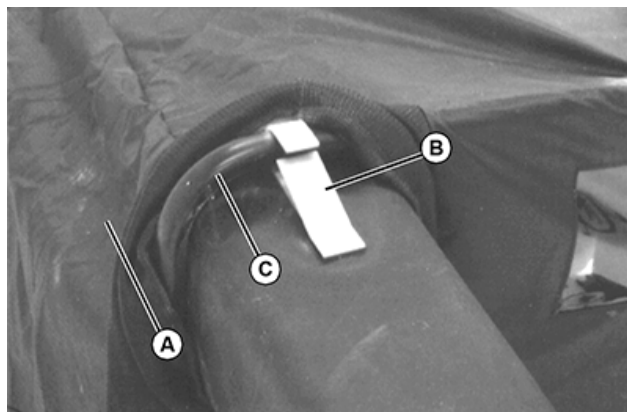
4. Push cover down so bracket (D) fits over dump cart box flange.



MXAL48005—UN—21MAY13

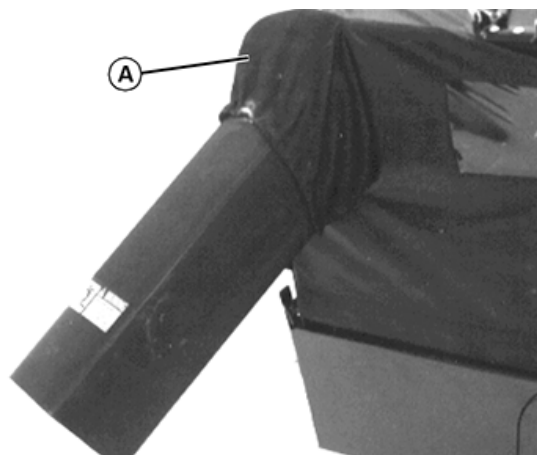
5. Push cover latch bracket (E) rearward to latch cover at rear of cart box.

Install Cover Chute



MXAL48006—UN—21MAY13

1. Push cover (A) back and slide clip (B) located on cover chute over front cover support (C) until clip spring snaps in place.



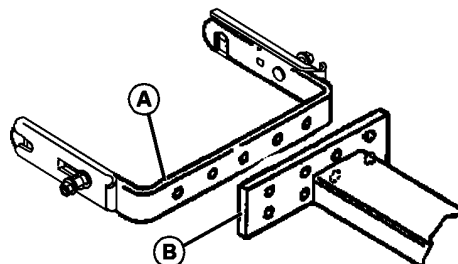
MXAL48007—UN—21MAY13

2. Pull cover (A) over chute.

Material Collection Cart Adjustments

NOTE: Making sure cart box is level with ground will:

- *Make dumping of load easier.*
- *Distribute load more evenly.*



MXAL47978—UN—21MAY13

Assembly

The vertical adjustment is a 2-position adjustment. This adjustment is made on the drawbar hitch plate (B) and quik-tatch bracket (A).

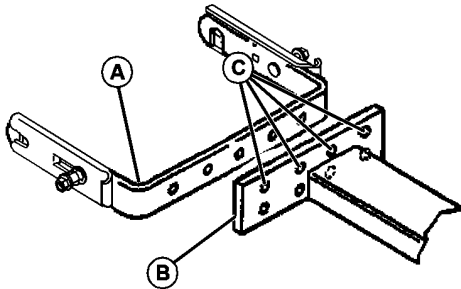
The side-to-side adjustment is a 3-position adjustment. This adjustment is made on the quik-tatch bracket (A) and drawbar hitch plate (B).

Side-To-Side and Vertical Adjustments:

1. Remove bolts, lockwashers, and nuts.

IMPORTANT: Avoid Damage! Chute must not contact any part of the tractor as a result of adjustment.

2. Position cart drawbar hitch plate as close as possible to center of tractor. Make sure to allow clearance for the power-flow discharge to cart chute with the tractor's fender deck and right tire.
3. Move quik-tatch bracket:

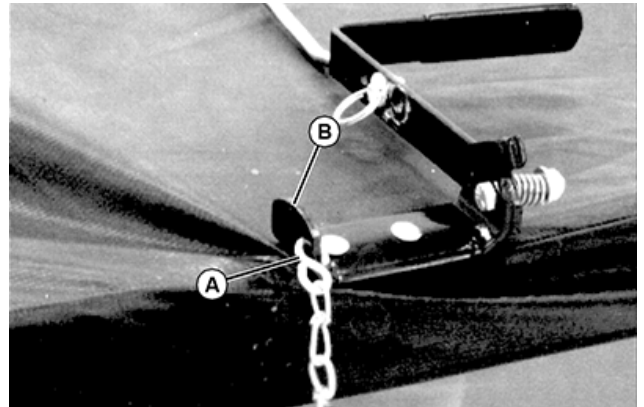


MXAL47979—UN—21MAY13

4. Move quik-tatch bracket (A) to appropriate hole (C) on drawbar hitch plate (B).
5. Install bolts, lockwashers, and nuts removed previously. (Nuts go to the inside of bracket.)
6. Tighten nuts.

Install Cable and Chain Assembly

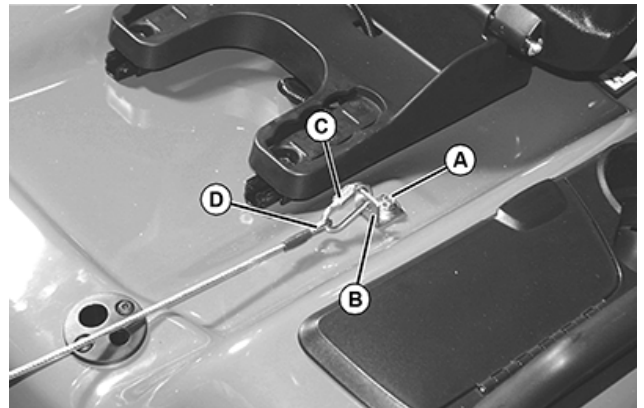
IMPORTANT: Avoid damage! To prevent damage to cart, do not operate unit before installing cable and chain assembly.



MXAL48008—UN—21MAY13

1. Find chain link that is approximately 69 cm (27 in.) from opposite end of cable. Put S-hook (A) through that chain link. Crimp end of S-hook closed.
2. Put other end of S-hook in hole on lift bracket (B), and crimp end of S-hook closed.

Install Chain Bracket On Fender Deck



MXAL48009—UN—21MAY13

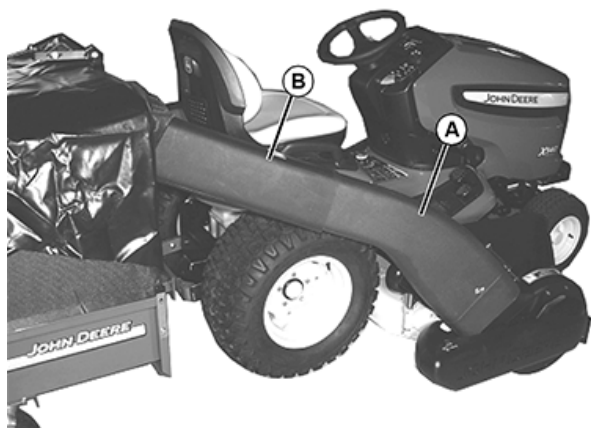
1. Raise seat, and remove bolt (A) and washer from right side of fender deck.
2. Put chain bracket (B) on fender deck and fasten with washer and bolt (removed above). Tighten bolt.
3. Put chain link (C) through loop on end of cable (D) and also through bracket (B). Close chain link and finger tighten nut.
4. Lower seat.

Assembly

Install Power-Flow Chute

NOTE: Before installing POWER-FLOW chute to MC cart:

- Make sure MC cart is mounted on tractor.
- Make sure cover is installed on cart.
- See POWER-FLOW operator's manual for installing chute to POWER-FLOW.



MXAL48010—UN—21MAY13

1. Install POWER-FLOW chute (A) in cover chute (B).
2. Install other end of chute to POWER-FLOW. (See your POWER-FLOW operators manual for installation.)

Installing

Install Proper Ballast

⚠ CAUTION: Avoid injury! Machine can become unstable when operating with attachment. Ballast is required when the attachment is installed.

When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

Four cast iron rear wheel weights are required for ballast when operating your MC519 cart.

⚠ CAUTION: Avoid Injury! Excessive towed load can cause loss of traction and loss of control on slopes. Stopping distance increases with speed and weight of towed load.

Total towed weight must not exceed combined weight of pulling machine, operator and front ballast, or the maximum capacity of the cart.

NOTE:

- *Machine, ballast and operator combined weight must exceed cart weight.*
- *Reduce loaded cart weight on slopes and/or slippery surfaces.*
- *Traction decreases in reverse*

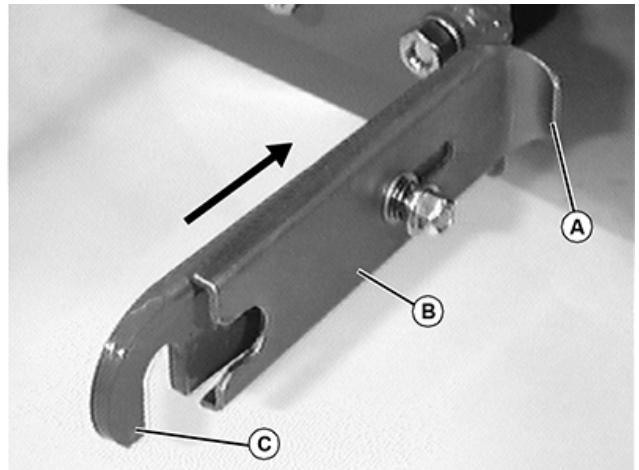
Do not exceed 227 kg (500 lb) cart load.

Remove ballast when the cart is removed. This will ensure proper operation of the machine when the cart is not installed. See your authorized service center for recommended weights on your machine.

Installing MC519 Cart

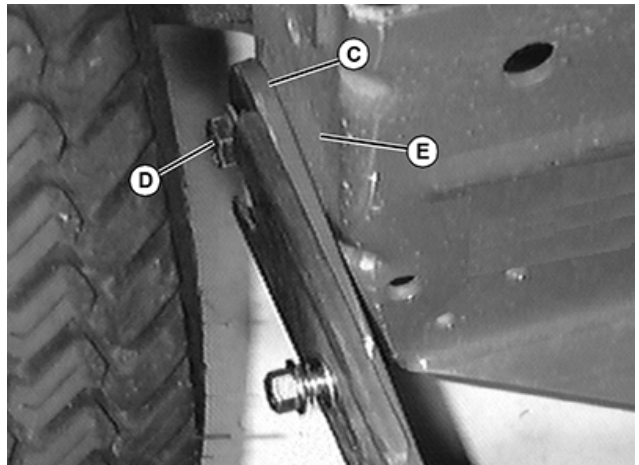
1. Park machine safely. (See Parking Safely in the SAFETY section.)

NOTE: Quik-tatch bracket must be installed to cart before installing the cart to the tractor.



MXAL48011—UN—21MAY13

2. Grasp tab (A) and pull plate (B) out and slide to the rear to expose hook (C).

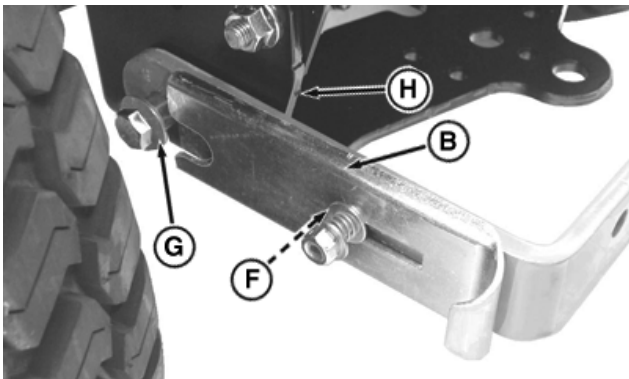


MXAL48012—UN—21MAY13

3. Place hook (C) over spacers (D) fastened with hex head bolts to tractor rear frame (E).

Installing

NOTE: Plate (B) must fit between washer (G) and hitch plate side (H), not placed to the outside of the washer.



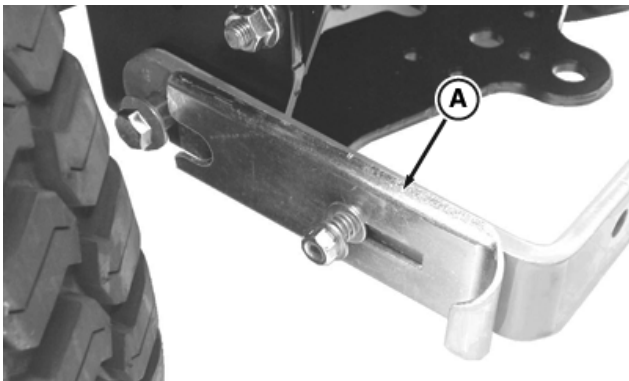
PY19151—UN—04DEC13

4. Slide plate (B) forward until plate locks into position. Tab (F) on backside of plate must seat completely into hole on quick-tatch bracket.

Adjust Slide Bracket Spring

1. Park machine safely. (See Parking Safely in the SAFETY section.)

IMPORTANT: Avoid damage! Do not loosen nut to allow slide plate to fit loosely when in latched position. Slide plate spring must provide tension to hold slide plate firmly against the hitch side. Failure to provide proper tension may result in cart becoming unattached from tractor.



PY19147—UN—04DEC13

2. Adjust spring tension to allow ease of movement for slide plate (A) by turning nut (B) counterclockwise to loosen or clockwise to tighten.

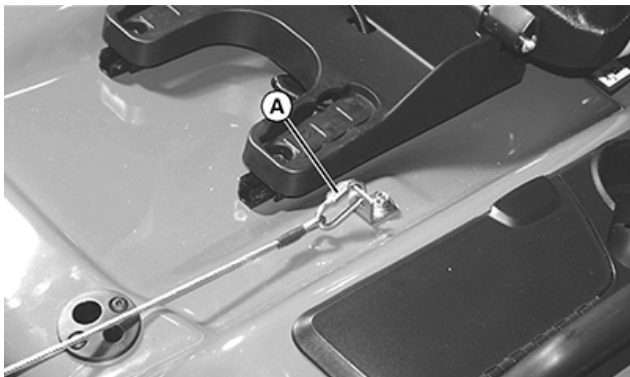
Removing and Storing

Removing MC519 Cart

1. Park machine safely. (See Parking Safely in the SAFETY section.)

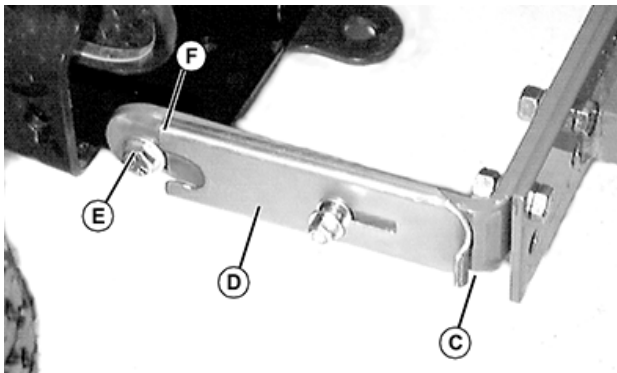
NOTE: Removing the MC519 cart is the same for all models.

2. Unload cart.
3. Remove rear wheel weights (ballast).



MXAL48015—UN—21MAY13

4. Raise seat and unlatch cable and chain assembly chain link (A) from tractor fender deck. Lower seat.



MXAL48017—UN—21MAY13

5. Grasp tab (C) and pull plate (D) out, and slide plate to the rear to expose hook (E). Repeat for opposite side.
6. Lift hitch to remove hooks from spacers (F) on both sides of machine.

Storing MC519 Cart Safely

IMPORTANT: Avoid damage! Wash and dry cart before storing. Contaminants and moisture may damage cart material.



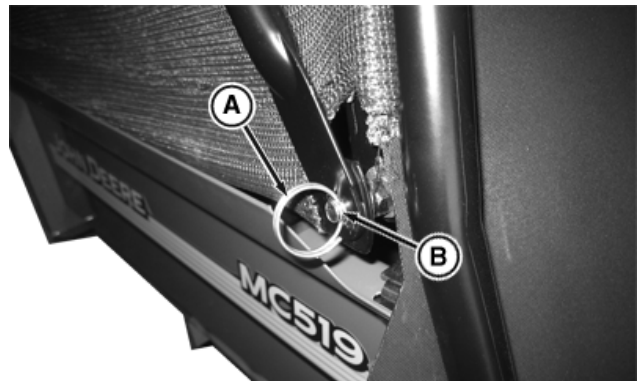
PY19139—UN—03DEC13

- Wash and dry cart.
- Put cart on level ground in a sheltered, dry place.
- Make sure that QUIK-TATCH hitch bracket is on the ground.
- Make sure that dump lever is latched.

Collapsing Cover For Storage

1. Remove cover from cart.

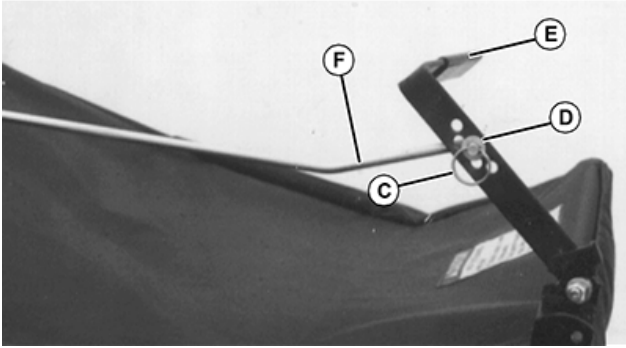
NOTE: Install locking rings back on studs for storage.



PY19107—UN—28NOV13

2. Remove locking rings (A) from studs (B) located on both rear lower corners of cover.

Removing and Storing



MXAL48020—UN—21MAY13

3. Remove locking ring (C) and washer (D) from cover release lever (E).
4. Remove cover latch rod (F) from cover release lever.



MXAL48021—UN—21MAY13

5. Remove opposite end of cover latch rod (F) (end with two bends) from cover.
6. Put cover rod back in cover release lever.
7. Install washer and locking ring back on cover rod for storage.
8. Collapse cover.

Operating

Loading Material Collection Cart

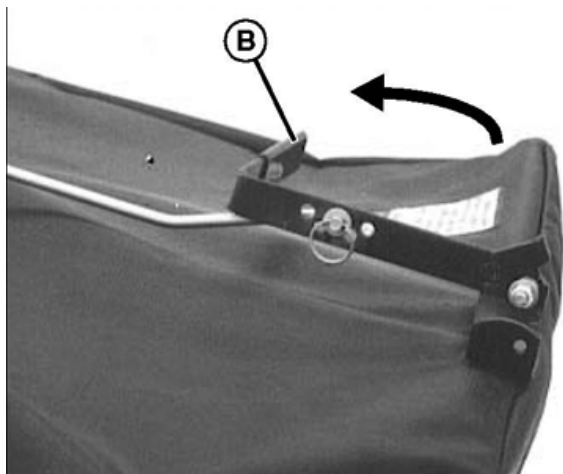
Before loading the MC519 cart, check the following steps:

NOTE: Make sure cart is attached to tractor.



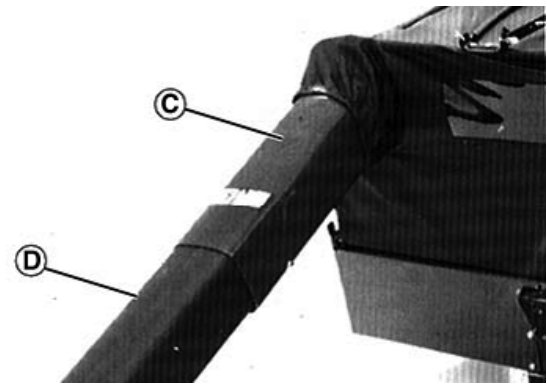
PY19140—UN—03DEC13

1. Make sure dump latch lever (A) is pushed toward the rear so cart box is latched to drawbar.



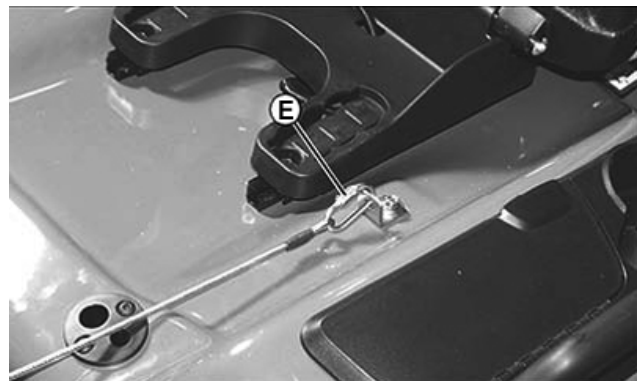
M63451—UN—04DEC13

2. Make sure cover release lever (B) is down and engaged.



PY19152—UN—04DEC13

3. Make sure chutes are installed:
 - Cover chute (C).
 - POWER-FLOW chute (D).



PY19153—UN—04DEC13

4. Raise seat and make sure cover is chained to fender deck with chain link (E). Lower seat.

Unloading Material Collection Cart

1. Stop PTO.

⚠ CAUTION: Avoid injury! Before dumping cart:

- Park machine safely.
- Before backing up, make sure area is clear of bystanders, especially children.
- Make sure cart is installed to the towing machine.

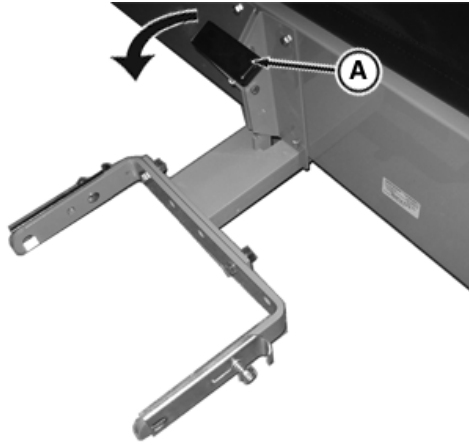
2. Back cart to the unloading area.

NOTE: Some caster wheel wobble is normal when cart is backed up.

3. Stop engine.
4. Lock park brake.
5. Unlatch cover release lever by grabbing lever and pulling it toward you.

Operating

NOTE: You may need to pull lever more than once to free load.

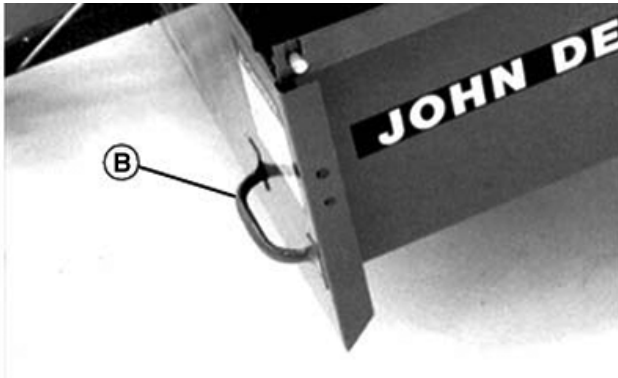


PY19141—UN—04DEC13

6. Pull dump latch lever (A) toward the front to unlatch and pull lever upward to lift load for dumping.

NOTE: Cart shown removed from tractor for clarity.

7. Drive tractor forward (a few feet) to completely dump load. If load does not dump:
 - Stop engine.
 - Lock park brake.

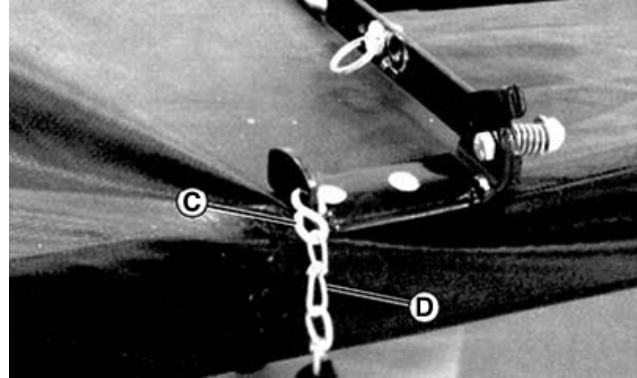


PY19154—UN—04DEC13

- Get off of tractor and grab lift handle (B) to fully dump load.
8. Lower box and latch dump latch lever (B) by pushing lever down and rearward.
 9. Latch cover release lever by grabbing lever and pushing it rearward.

NOTE: Setting length in proper link on chain will allow load to dump properly, allow cart to follow same ground contour and make dumping of load easier.

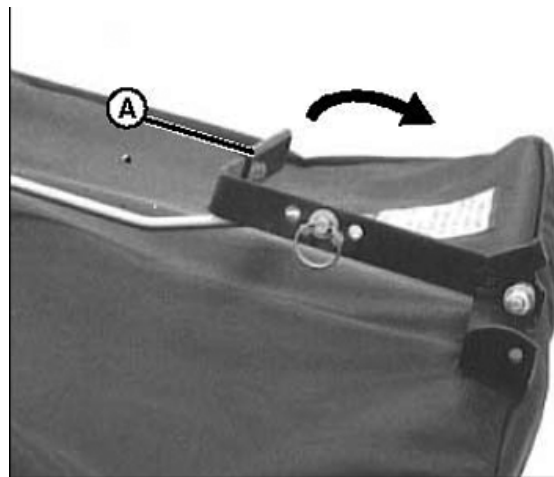
10. If load does not dump completely, or if cover does not open far enough, shorten chain:



PY19155—UN—04DEC13

- Open S-hook (C) (end attached to chain).
- Move S-hook to next link (D) in chain.
- Crimp S-hook closed.

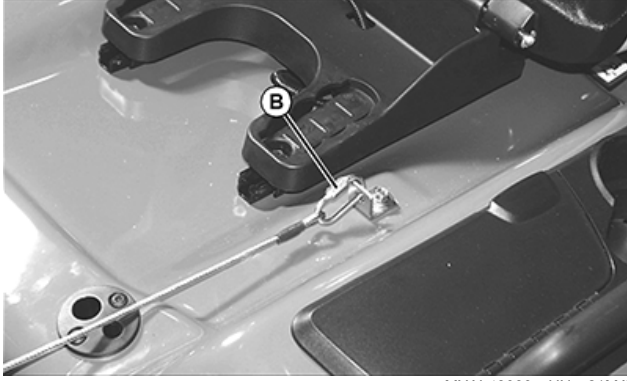
Removing Cover



PY19131—UN—29NOV13

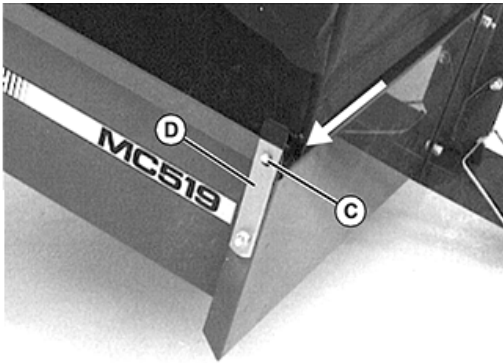
1. Unlatch cover release lever (A) on top of cover by pulling it toward you.

Operating



MXAL48030—UN—21MAY13

2. Raise seat and unlatch cable and chain assembly chain link (B) from tractor fender deck. Lower seat.



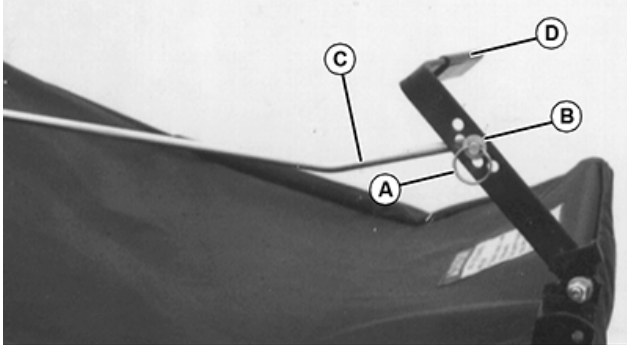
MXAL48031—UN—21MAY13

3. Release cover pivot rod (C) by pulling cover attaching latch (D) (on upper right-hand corner of cart box) outward and lift cover free of hole in box on upper left-hand corner.
4. Remove cover from cart box.

Operating

Adjusting Cover Latch

NOTE: When cover is no longer sealed tightly to bottom rear panel on cart, adjust the cover latch by moving latch to a different position on the latch bracket. Start with center hole on latch bracket.



MXAL48034—UN—21MAY13

1. Remove locking ring (A) and washer (B).
2. Move cover latch rod (C) to next higher hole in latch bracket (D).
3. Put washer on latch rod and fasten with locking ring.
4. Push cover latch bracket down to tighten cover.
5. Repeat procedure if cover is still not sealed tightly to bottom rear panel of cart after adjustment is made.

Service

Grease

IMPORTANT: Avoid damage! Use recommended John Deere greases to avoid component failure and premature wear.

The recommended John Deere greases are effective within an average air temperature range of -29 to 135 degrees C (-20 to 275 degrees F).

If operating outside that temperature range, contact your Servicing dealer for a special-use grease.

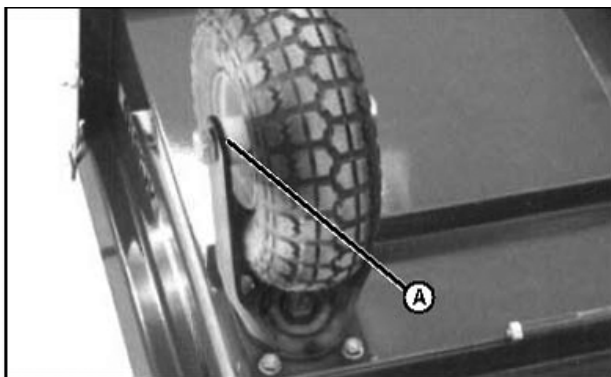
The following greases are preferred:

- John Deere Multi-Purpose SD Polyurea Grease
- John Deere Multi-Purpose HD Lithium Complex Grease

If not using any of the preferred greases, be sure to use a general all-purpose grease with an NLGI grade No.2 rating.

Wet or high speed conditions may require use of a special-use grease. Contact your Servicing dealer for information.

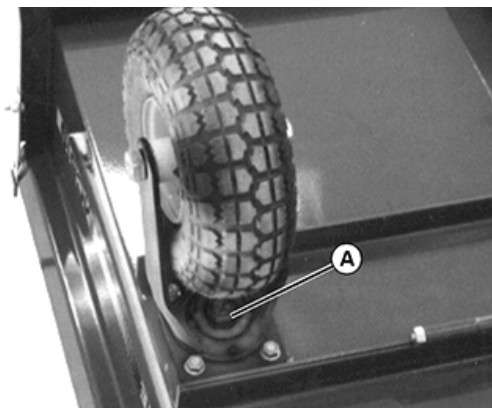
Lubricate Wheel Bearings



PY19112—UN—28NOV13

Lubricate each wheel bearing (A) with John Deere multipurpose grease or an equivalent.

Lubricate Casters



MXAL48037—UN—21MAY13

Lubricate each caster (A) with John Deere multipurpose grease or an equivalent.

Checking Tire Pressure

1. Check tire inflation pressure on tractor tires.
2. Check tire inflation pressure on material collection tires.

Tire inflation pressure should be as follows:

- See your tractor operator's manual for proper inflation pressure in your tractor tires.
- Material collection cart tire inflation pressure should be to specification.

Specification

Air — Pressure 345 kPa (50 psi)

Service Intervals

Service Intervals

IMPORTANT: Avoid damage! Operating in extreme conditions may require more frequent service intervals.

Every 10 Hours

- Lubricate wheel bearings.
- Lubricate casters.

Troubleshooting

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your authorized dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your authorized dealer.

MCS Cart

IF	CHECK
Load is "locked" in cover.	Pull cover release handle toward you several times to shake load free of cover.
Too much effort required to dump the cart.	Dump load from ground. Decrease load manually. Check lift assist cylinder.
Cannot reach dump lever.	Dump load from ground.
Cover does not open.	Fasten chain to bracket on tractor fender deck.
Cover does not open far enough.	Shorten chain fastened to tractor fender deck.
Load does not dump clean.	Drive tractor forward (a few feet) while cart is in dump position.
Power flow chute clogs.	Stop collecting when cart fill indicator window is covered mid-way. Grass is too wet. Wait for drier conditions.
Power flow chute hits fender deck or tire.	Adjust cart mounting by moving further to the right.
Grass leaks out between rear of cover and cart.	Adjust tension on cover release rod by moving rod to next hole in handle towards rear of cart.
Dump latch lever does not align/engage with slot in drawbar.	Adjust latch lever adjusting bolt and spacer in lever mounting bracket.
Cart will not follow ground contours. cart travel impaired by chain.	Chain too short. Lengthen chain, one link at a time.
Caster wheels wobble.	Some wobble is normal when towing an empty cart, especially on a paved surface. Use slower speed to reduce wobble.

Specifications

MCS Cart

Box Dimensions:

Width 107 cm (42 in.)
Length 76 cm (30 in.)
Depth 20 cm (8 in.)

Overall Dimensions Including Hitch:

Width 116 cm (45.5 in.)
Length 129.54 cm (51 in.)
Depth 112 cm (44 in.)
Clearance 25 cm (10 in.)
Dump Angle 50 Degrees

Weight:

Cart Only 54 kg (119 lb)
Cover Only 12 kg (26 lb)
Hitch Only 3.47 kg (7.65 lb)

Tires:

Size 4.10 x 3.50, 4 PR Pneumatic Caster
Air Pressure 345 kPa (50 psi)

Capacity (Collector):

Volume 0.67 m3 (19 Bushels)
Load 227 kg (500 lb)

Capacity (Cart):

Volume (Heaped) 0.21 m3 (7.5 cu ft)
Volume (Struck) 0.17 m3 (6.0 cu ft)
Load 227 kg (500 lb)

Getting Quality Service

Service Literature

If you would like a copy of the Parts Catalog or Technical Manual for this machine call:

- **U.S. & Canada:** 1-866-218-8622.
- **All Other Regions:** Your John Deere dealer.

Parts

We recommend John Deere quality parts and lubricants, available at your John Deere dealer.

When you order parts, your John Deere dealer needs the serial number or product identification number (PIN) for your machine or attachment. These are the numbers that you recorded in the Product Identification section of this manual.

Order Service Parts Online

Visit <http://JDParts.deere.com> for your Internet connection to parts ordering and information.

John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with your John Deere dealer's parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to your attachment and machine operator manuals.
2. In North America or Canada, call the John Deere Customer Contact Center.
 - Call 1-866-218-8622 and provide product serial number and model number.

Notes
