



14 Bushel Rear Bagger



OPERATOR'S MANUAL
14 Bushel Rear Bagger
OMLVU34634 ISSUE F7 (ENGLISH)

John Deere Augusta Works

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Introduction

Foreword

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 and safety signs on your machine may also be available in other languages. (See your John Deere dealer to order.)

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 given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers 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. 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 or statement 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.

THE TIRE MANUFACTURER'S warranty supplied with your machine may not apply outside the U.S.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

DX,IFC1 -19-03APR09-1/1

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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

Record Identification Numbers

The 14-bushel bagger is compatible with the 48, 54 and 62 inch mower decks for the 1023E, 1025R, 1026R, 2025R, 2026R, 2210, 2305, 2520, 2720 and 4115 compact utility tractors..

Contact your John Deere dealer for specific tractor compatibility information.

Record Purchase Information:

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

UP00731,0000358 -19-26JUN17-1/1

Safety

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



TS1389 —UN—28JUN13

DX,ALERT -19-29SEP98-1/1

Understand Signal Words

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General



TS187 —19—30SEP98

precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL -19-05OCT16-1/1

Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

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

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



TS201 —UN—15APR13

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

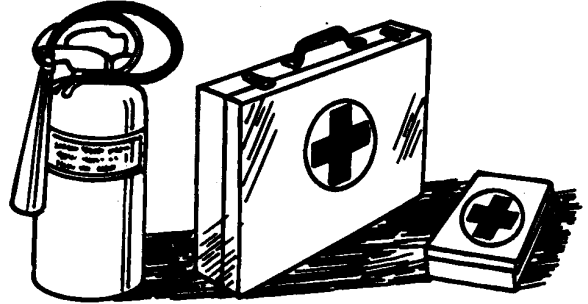
DX,READ -19-16JUN09-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



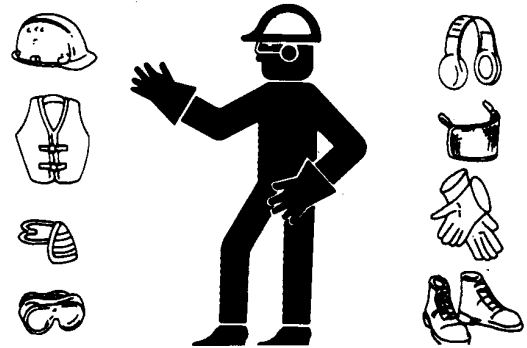
DX,FIRE2 -19-03MAR93-1/1

TS291 —UN—15APR13

Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



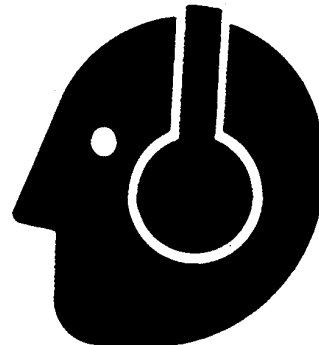
DX,WEAR2 -19-03MAR93-1/1

TS206 —UN—15APR13

Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



DX,NOISE -19-03MAR93-1/1

TS207 —UN—23AUG88

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.

Hose Maintenance:

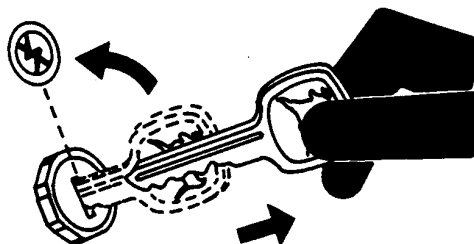
- Hose is subject to wear and deterioration.
- Check hose frequently; replace when necessary.
- Use John Deere hose or equivalent to comply with safety specifications.

UP00731,0000349 -19-19JUN17-1/1

Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



TS230—UN—24MAY89

DX,PARK -19-04JUN90-1/1

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.

UP00731,000034A -19-19JUN17-1/1

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.

UP00731,000034B -19-19JUN17-1/1

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.

UP00731,000034C -19-19JUN17-1/1

Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and
- 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.
- 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.

UP00731,000017C -19-11MAY16-1/1

Safety Signs

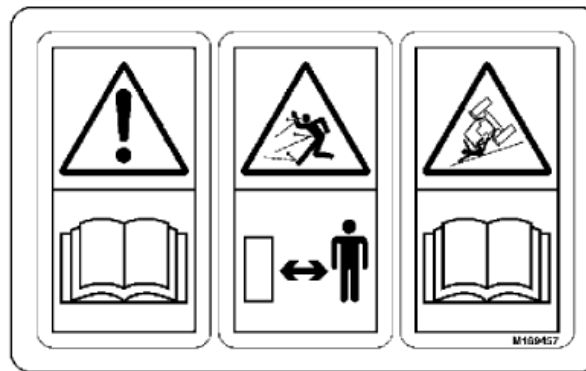
Warning—M169457

- Read operator's manual.
 - The operator's manual contains important information necessary for safe machine operation. Observe all safety rules to avoid accidents.
- Shut off mower before emptying grass bag.
- Bag is subject to wear and deterioration. Check bag frequently; replace when necessary.
- Use a John Deere bag or equivalent to comply with safety specifications.

Avoid Injury From Thrown Objects

- Operator mower with complete bagging attachments in place.
- Do not open catcher while blades are turning.
- Shut off engine before removing or installing bag.
- Keep bystanders away while engine is running.

Avoid Injury From Tipping



M169457—Located on rear side of bagger hopper

- Do not drive where machine could slip or tip.
- See operator's manual for required ballast to maintain steering control and stability.

UP00731,0000344 -19-19JUN17-1/1

GXT001478 —UN—29AUG14

Warning—M146579

- Bagger may impair rear vision. Look down and behind before and during backing.



M146579—Located on front side of bagger hopper

UP00731,0000345 -19-19JUN17-1/1

LV28709 —UN—19JUN17

Warning—M149489

- Do not put hands or feet under or into mower when engine is running.
- Keep away from rotating parts. Do not open or remove safety shields while engine is running. Operate blower with entire grass catcher secured in place.
- Thrown Objects—Before mowing, clear area of objects that may be thrown by blade. Do not operate mower without discharge chute or entire grass catcher in place.
- Stay a safe distance from machine.
- Read operator's manual.



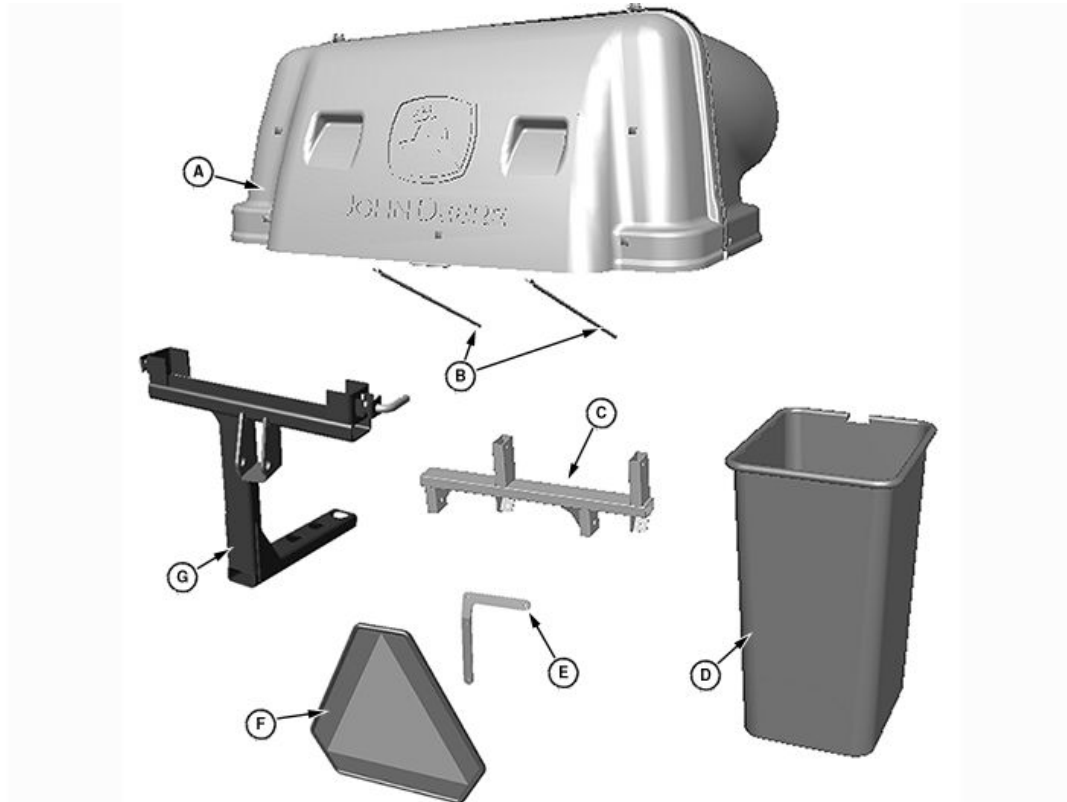
M149489--Located on power flow

UP00731,0000340 -19-19JUN17-1/1

LV28710 —UN—19JUN17

Assembly

Parts in Kit Large Box



Quantity	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)
2	Bracket, Light Mounting
1	Bag of Parts

Continued on next page

DB71512,00001BB -19-22JUN17-1/2

LV27665 —UN—22JUN17

Small Box

Quantity	Description
1	Chute (A)

Part in Bag

Quantity	Description
2	Pin, Drilled
2	Cotter Pin
4	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	Hex Head Bolt, M6x16
4	Nut, M6
2	Hex Head Bolt, M6x20
2	Washer, 44 mm
2	Bracker, Backing Plate
2	U-Bolt, M6
4	Locknut, M8
4	Hex Head Bolt, M8x20
1	Hex Head Bolt, M8x65
2	Hex Head Bolt, M8x100
4	Locknut, M6x100
2	Grommet
4	Tie Strap



LV27666 —UN—09FEB17

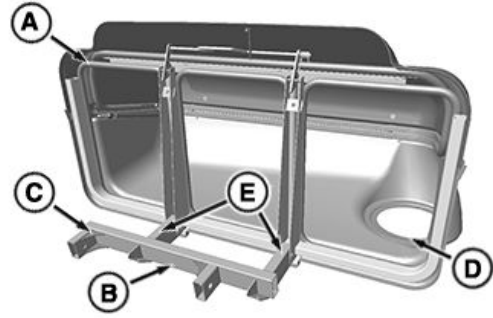
DB71512.00001BB -19-22JUN17-2/2

Assemble Bagger

IMPORTANT: Avoid damage! Contact with abrasive surfaces can scratch hopper.

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 in hopper (D).
3. Slide upper mounting frame into bottom of hopper channel supports (E).

A—Hopper
B—Upper Mounting Frame
C—Longer Arm
D—Hole in Hopper
E—Hopper Channel Supports

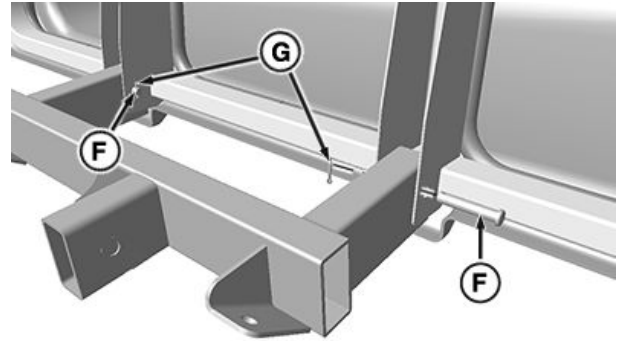


DB71512,00001BC -19-13FEB17-1/5

LV27667 —UN—09FEB17

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

F—Drilled Pins
G—Cotter Pins



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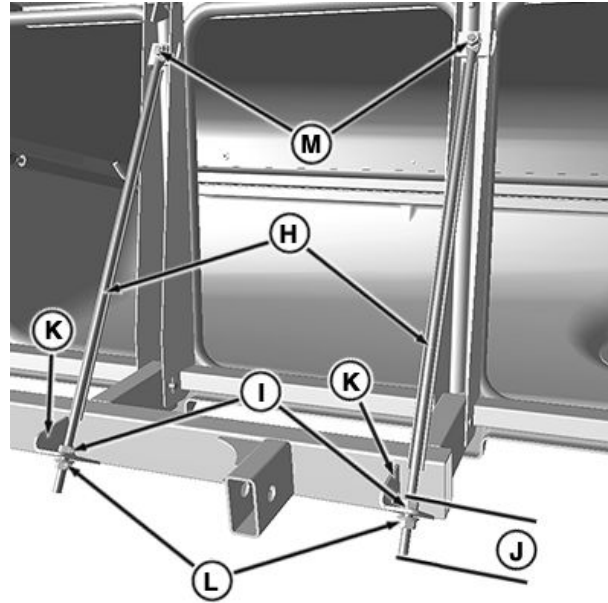
DB71512,00001BC -19-13FEB17-2/5

LV27668 —UN—09FEB17

6. Obtain hopper support rods (H). Install one M10 flange nut (I) onto each rod so flange faces down toward threaded end of rod. Turn the nuts onto the rods to distance (40 mm (1-9/16 in)) (J) from nut flange to bottom of threaded rod.
7. Insert the hopper support rods into upper mounting frame brackets (K). Install one M10 flange nut (L) 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 and M8 flange nut (M) (nuts to the outside). Tighten M8 Nuts.
9. Maintain the preset position of top M10 flange nuts (I). Tighten lower M10 flange nuts (L).

H—Hopper Support Rods
I— M10 Flange Nut
J— Measurement, (40 mm
(1-9/16 in))

K—Upper Mounting Frame
Brackets
L—M10 Flange Nut
M—M8x16 Carriage Bolt and
M8 Flange Nut

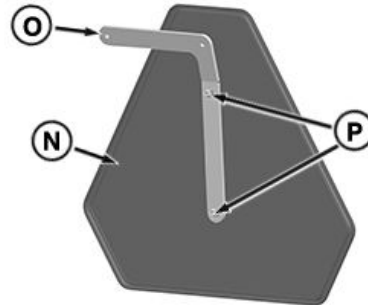


LV27669 —UN—09FEB17

DB71512,00001BC -19-13FEB17-3/5

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

N—Slow Moving Vehicle (SMV) Sign
O—Mounting Bracket
P—M6x16 Cap Screws and M6 Nuts



LV27670 —UN—09FEB17

DB71512,00001BC -19-13FEB17-4/5

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

Q—M6x20 Cap Screw, 44 mm
Washers, and M6 Nuts



LV27671 —UN—09FEB17

DB71512,00001BC -19-13FEB17-5/5

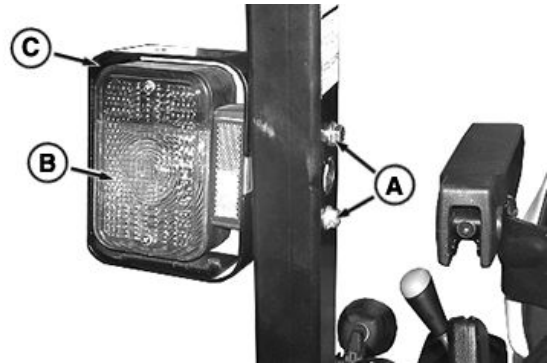
Move ROPS Lights

NOTE: If equipped with ROPS mounted operator manual storage container, move it to above the light mounting area and facing toward the rear.

1. Remove two bolts (A), light (B) and light guard (C) (if installed) from the current location.

A—Bolts
B—Light

C—Light Guard



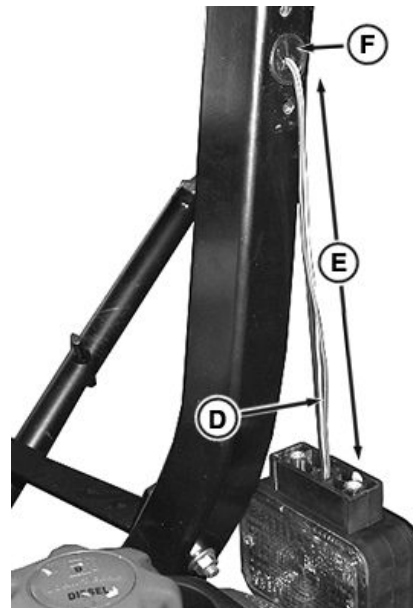
LV27672 —UN—09FEB17

DB71512,00001BD -19-19JUN17-1/5

2. Pull the wiring (D) out through the hole in the ROPS tube about 325 mm (12-3/4 in) (E).
3. Put the wiring into the rubber grommet (F) and install grommet into the hole in the ROPS tube.

D—Wiring
E—Measurement, 325 mm
(12-3/4 in)

F—Rubber Grommet



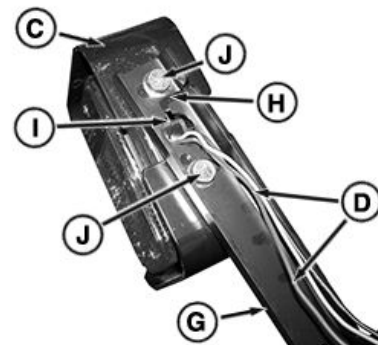
LV27673 —UN—09FEB17

DB71512,00001BD -19-19JUN17-2/5

4. Thread the wiring (D) up the inside of the light mounting bracket (G), through the slot (H) and into the large hole (I).
5. Use the M8x20 bolts (J) to attach the light and light guard (C) (if installed) to the light mounting bracket (G). Use opposite side of the upper and lower figure-8 holes so that the light is vertical when the bracket is parallel to the ROPS tube.

G—Light Mounting Bracket
H—Slot

I—Large Hole
J—M8x20 Bolts



LV27674 —UN—09FEB17

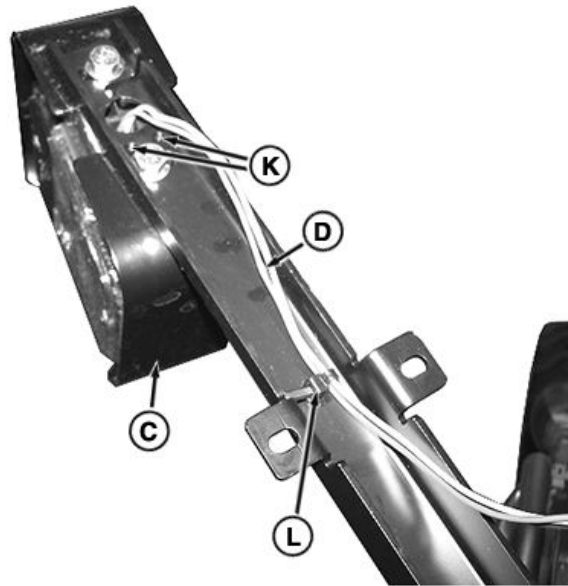
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DB71512,00001BD -19-19JUN17-3/5

6. If light guard (C) is not installed, push the end of one tie strap into one of the open holes (K) directly under the large hole that the wire is passing through. Pull wiring (D) so there is no slack from the light and fasten securely with the tie strap. Cut remaining end of strap off.
7. Install second tie strap (L) in hole above the mounting ear, and fasten wire so that it is inside of the light mounting bracket channel and has no slack. Fasten securely with tie strap and cut remaining end of strap off.

K—Open Holes

L—Second Tie Strap



LV27675—UN—09FEB17

DB71512,00001BD -19-19JUN17-4/5

NOTE: Left-hand side only use the M8x65 and M8 locknut to mount the SMV sign (if equipped with ROPS mounted SMV sign).

8. Put the M8x100 bolt (M) through the bottom hole in the ROPS tube where the light was originally mounted. Place the light mounting bracket (G) on the tube, using either the left or right side of the figure-8 hole depending on which side centers the bracket on the tube. Install the M8 locknut (N) on bolt finger tight.
9. Put the U-bolt (O) around the ROPS tube. Put the light mounting strap (P) onto the U-bolt, and then the light bracket. Install two M6 locknuts (Q) finger tight. Check to be sure that all the wiring is inside the light bracket and not under the strap or the light bracket and that the pivot from the folding ROPS will not catch on the wiring. Move wiring behind light mounting bracket (G), if needed.
10. For 2025R:
 - a. Install two M8x105 bolts (R) through light mounting bracket.
 - b. Secure with locknut (S).
11. Tighten all hardware.
12. Repeat procedure on opposite side of tractor.

M—M8x100 Bolt

Q—M6 Locknuts

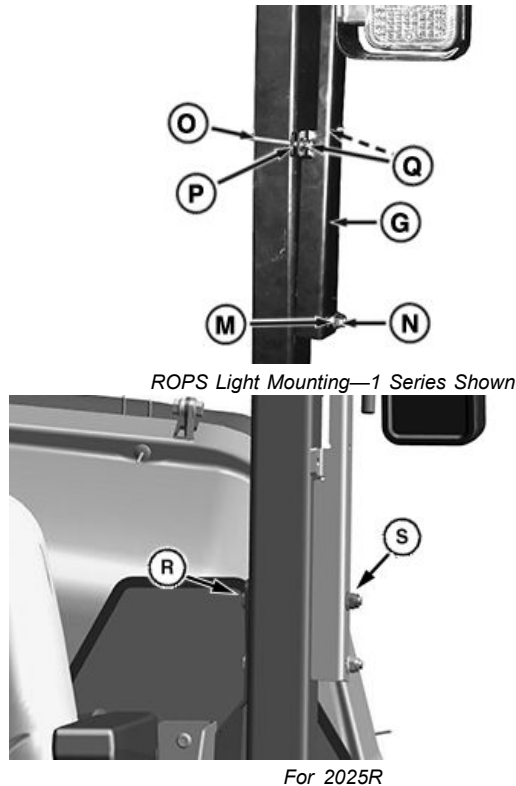
N—M8 Locknut

R—Bolt

O—U-Bolt

S—Nut

P—Light Mounting Strap



For 2025R

LV27676—UN—09FEB17

LV28712—UN—19JUN17

DB71512,00001BD -19-19JUN17-5/5

Prepare Vehicle

Prepare Vehicle

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

Required Equipment

- Power Flow™

Power Flow is a trademark of Deere & Company

Machine Setup

- Check tire pressure of machine before operating machine.

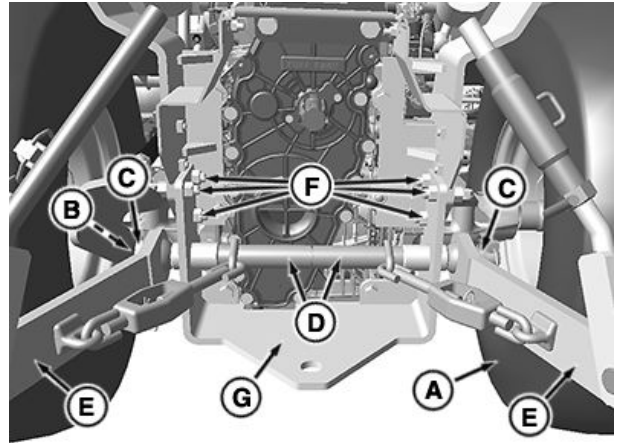
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Drill Hole in Hitch Bracket (2210 CUT)

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

A—Right-Hand Rear Wheel
B—Lynch Pin
C—Spacers
D—Sway Links

E—Draft Arm
F—Hardware
G—Hitch Bracket

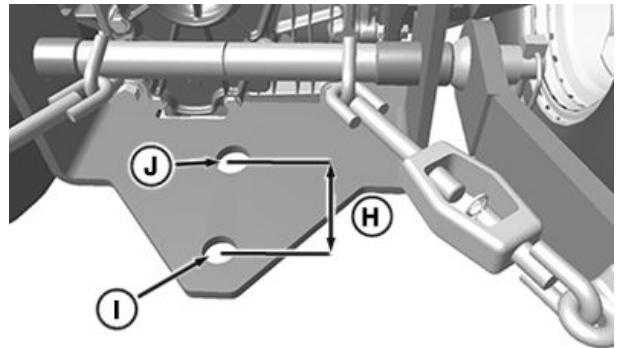


LV27677 —UN—09FEB17

DB71512,00001BF -19-09FEB17-1/2

5. Secure rear hitch for drilling, and measure 102 mm (4 in) (H) from centerline of hole (I). Center punch hole, and drill hole (21 mm (53/64 in)) (J) in rear hitch.
6. Install components back onto machine, reverse of removal.

H—Measurement, 102 mm (4 in) J—Drilled Hole, 21 mm (53/64 in)
I—Hole



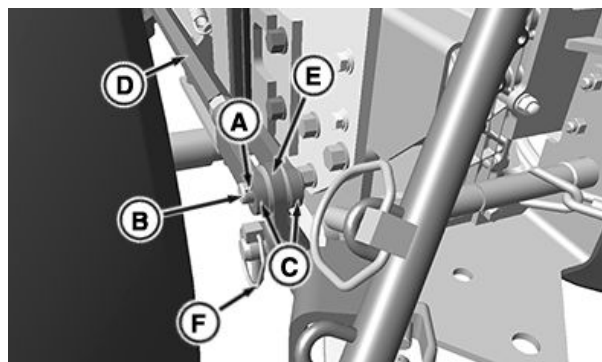
LV27678 —UN—09FEB17

DB71512,00001BF -19-09FEB17-2/2

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

NOTE: If an independent lift kit has been installed on tractor, this procedure is optional.

1. If bellcrank is already installed on machine, remove cotter pin (3.2x25 mm) (A), drilled pin (5/8x1-39/64 in) (B), two washers (11/16 in) (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.



A—Cotter Pin (3.2x25 mm)
B—Drilled Pin (5/8x1-39/64 in)
C—Washers (11/16 in)
D—Lift Rod Assembly
E—Bellcrank
F—Quick-Locking Pin

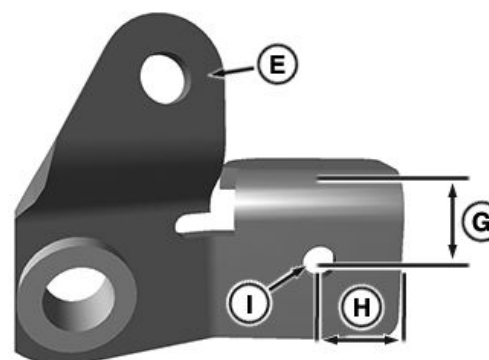
DB71512,00001C0 -19-10FEB17-1/3

LV27679 —UN—09FEB17

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

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).

G—Measurement, 34.75 mm (1-3/8 in)
H—Measurement, 33.85 mm (1-21/64 in)
I—Hole, 6.35 mm (1/4 in)



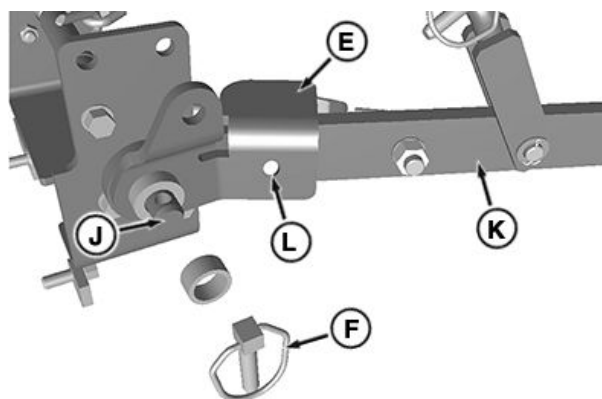
DB71512,00001C0 -19-10FEB17-2/3

LV27680 —UN—09FEB17

NOTE: Drill hole on left-hand lift arm only.

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).

J—Pivot Shaft
K—Arm
L—Hole



DB71512,00001C0 -19-10FEB17-3/3

LV27681 —UN—09FEB17

Install

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 on tractors listed to counterbalance the rear bagger:

Models 2210, 2305, 2320, 2520, 2720, 4115

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

NOTE: No ballast required for models 1023E and 1026R.

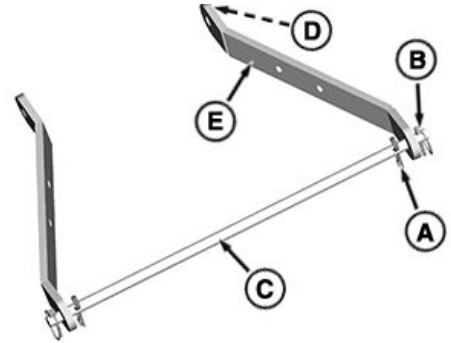
DB71512,00001C2 -19-09FEB17-1/1

Install Bellcrank (2210 and 2305 CUTS)

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-hand lift arm (E) and lift link (to prevent it from damaging the MCS frame). Install spacer and quick-locking pin back onto pivot shaft.

A—Spring Locking Pin
B—Quick-Locking Pin
C—Spreader Bar

D—Quick-Locking Pin
E—Right-Hand Lift Arm



LV27682 —UN—09FEB17

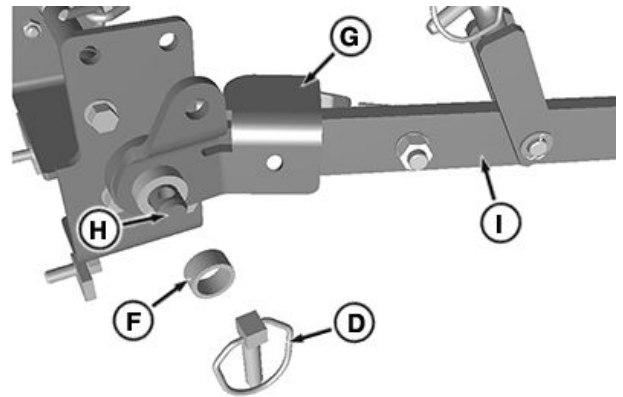
DB71512,00001C3 -19-10FEB17-1/4

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.

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-hand lift arm (I). Install quick-locking pin (D) onto pivot shaft (H).

F—Spacer
G—Bellcrank

H—Pivot Shaft
I—Left-Hand Lift Arm



LV27683 —UN—09FEB17

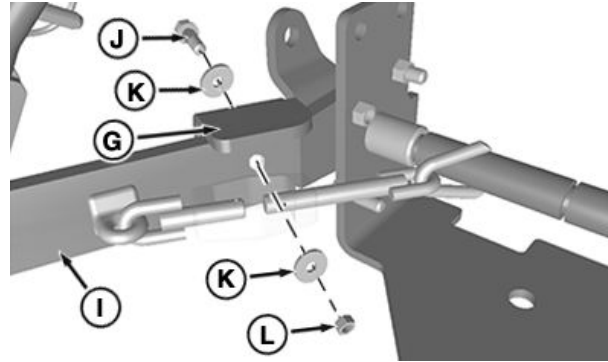
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DB71512,00001C3 -19-10FEB17-2/4

5. Secure left-hand lift arm (I) and bellcrank (G) together with M5x65 shear bolt (J), two M5 washers (K), and M5 nut (L).

J—M5x65 Shear Bolt
K—M5 Washers

L—M5 Nut



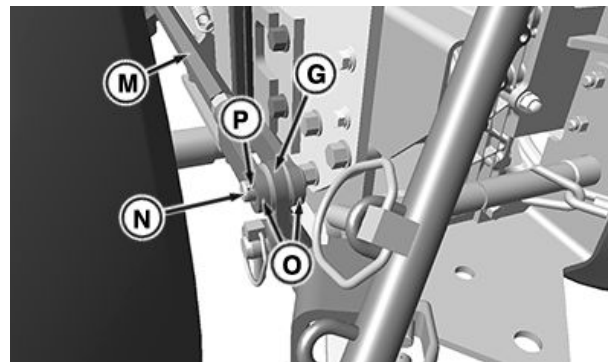
LV27684—UN—09FEB17

DB71512,00001C3 -19-10FEB17-3/4

6. Connect lift rod assembly (M) to top hole in bellcrank (G) with one drilled pin (5/8x1-39/64 in) (N), two washers (11/16 in) (O) inside of yoke, and one cotter pin (3.2x25 mm) (P).

M—Lift Rod Assembly
N—Drilled Pin (5/8x1-39/64 in)

O—Washers (11/16 in)
P—Cotter Pin (3.2x25 mm)



LV27685—UN—09FEB17

DB71512,00001C3 -19-10FEB17-4/4

Install Lower Mounting Frame

Install lower mounting frame on rear of tractor:

For 1023E, 1026R, 2025R, 2026R, 2305 and 2210 tractors:

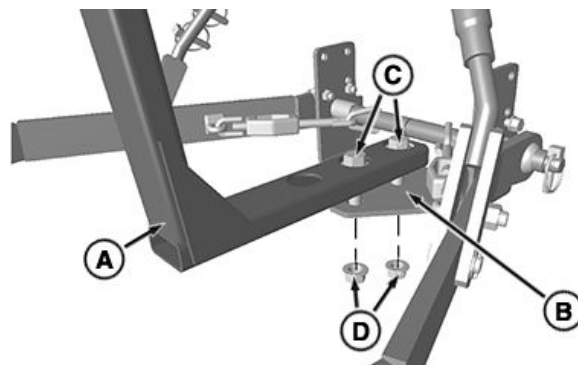
- Install lower mounting frame (A) onto rear hitch (B) with two M20x60 bolts (C), and M20 flange nuts (D).

Specification

M20 Flange Nut
(D)—Torque.....550 N·m
(405 lb·ft)

A—Lower Mounting Frame
B—Rear Hitch

C—M20x60 Bolts
D—M20 Flange Nuts



LV27686—UN—09FEB17

Continued on next page

DB71512,00001C4 -19-26JUN17-1/2

For 2320, 2520, 2720 and 4115 tractors:

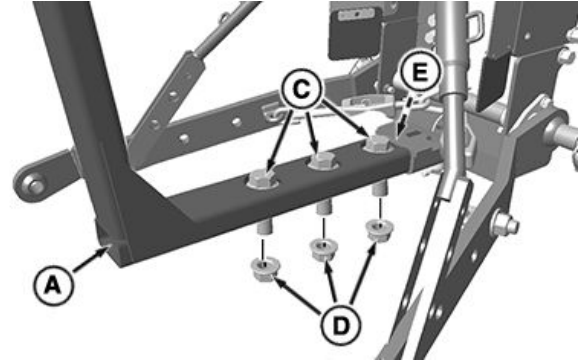
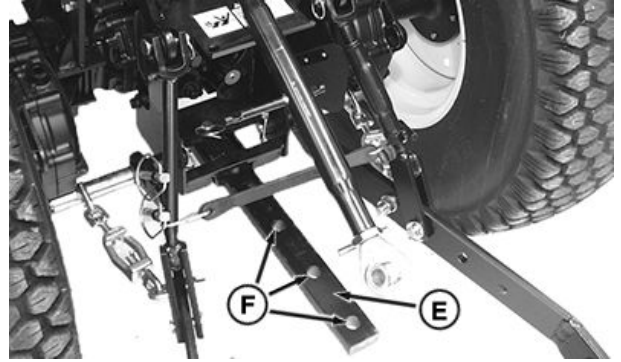
- Install rear hitch bar (E) onto rear hitch plate, so three holes (F) on bar are exposed.
- Install lower mounting frame (A) into rear hitch bar (E) with three M20x60 bolts (C) and M20 flange nuts (D).

Specification

M20 Flange Nut
(D)—Torque.....550 N·m
(405 lb·ft)

E—Rear Hitch Bar

F—Holes



LV27687 —UN—09FEB17

LV27688 —UN—09FEB17

DB71512,00001C4 -19-26JUN17-2/2

Install Center Link

IMPORTANT: Avoid damage! Center link must be installed to prevent failure of the lower mounting frame.

1. Remove pin and locking clip from front of center link (A), and install rear end onto bracket (B) on lower mounting frame (C). Secure with pin (D) and spring locking pin (E).
2. Rotate center link (A), as necessary, and secure front of center link back onto machine. Rotate center link (shortening length) until tight.

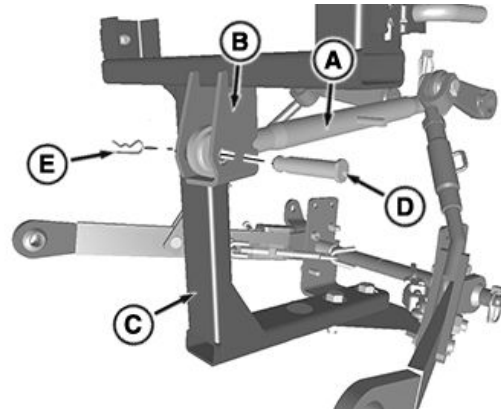
A—CenterLink

B—Bracket

C—Lower Mounting Frame

D—Pin

E—Locking Pin



LV27689 —UN—09FEB17

DB71512,00001C5 -19-10FEB17-1/1

Install Hopper Assembly

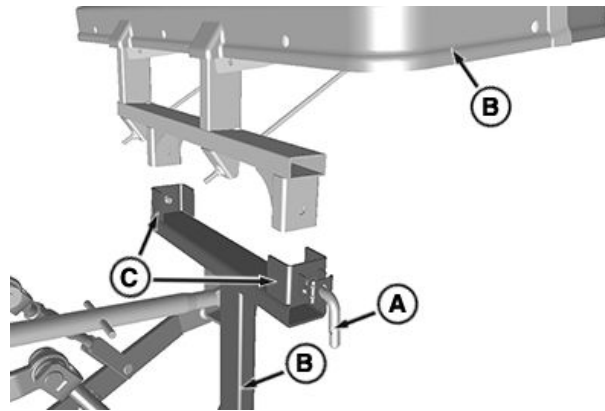
IMPORTANT: Avoid damage! Contact with abrasive surfaces can scratch hopper..

1. Park the machine safely.
2. Remove bags from bagger assembly.
3. Pull outward, and move upper Click-N-Go™ pins (A) on both sides to the locked open position (vertical).
4. Lower hopper assembly (B) onto slotted brackets (C) on lower mounting frame (D).

NOTE: During installation, shift bagger assembly slightly to ensure the Click-N-Go™ pins (A) securely lock into the mounting holes of the bagger latches.

5. Release the upper Click-N-Go™ pins (A) from the locked open position (to the horizontal position) so they lock into the mounting holes in the slotted brackets (C).

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A—Click-N-Go™ Pins
B—Hopper Assembly

C—Slotted Brackets
D—Lower Mounting Frame

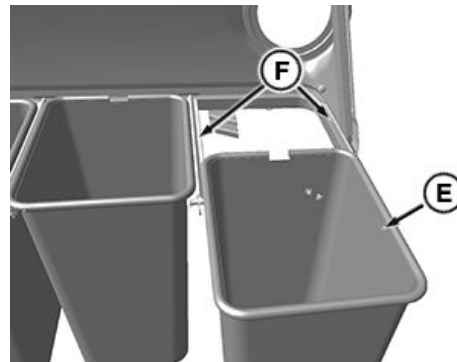
LV27690—UN—09FEB17

DB71512,00001C6 -19-10FEB17-1/2

6. Slide bags (E) into position on support frame (F) so the safety decals are visible at rear of machine.

E—Bags

F—Support Frame



LV27691—UN—09FEB17

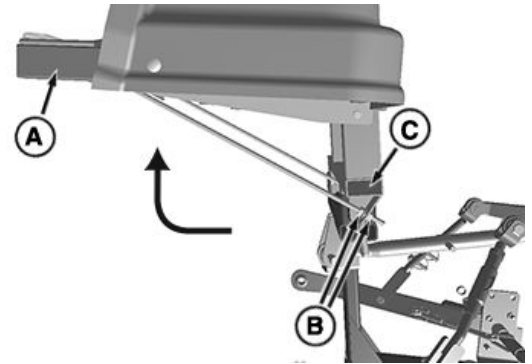
DB71512,00001C6 -19-10FEB17-2/2

Adjust Hopper

NOTE: Park tractor on level surface with tires inflated to the correct air pressure before adjusting hopper.

1. Open the hopper.
2. Stand to the side of the hopper. Support frame (A) should be angled 2°-3° forward of level. Adjust hopper if necessary:
 - a. Loosen M10 flange nuts (B) on both hopper support rods.
 - b. Adjust nuts evenly on both sides until support frame is angled slightly forward.
 - c. Tighten nuts onto upper mounting frame brackets (C).

NOTE: For 1023E and 1026R models, adjust upper links to be outside the outer bag on right side and between the first and second bag on the right-hand side.



Hopper Without Bags

A—Support Frame
B—M10 Flange Nuts

C—Upper Mounting Frame Brackets

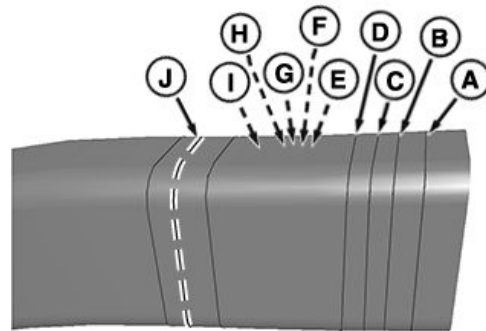
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LV27692 —UN—09FEB17

Install Power Flow™ Chute

MODEL	MOWER DECK SIZE	CHUTE CUT-OFF	LATCH HOLE
1023E and 1026R	54D	(J)—60 mm from the left line to the right	(J)—40 mm to the right of the far left hole
	60D	(J)—40 mm from the left line to the right	(J)—20 mm to the right of the far left hole.
2210	54C	(C)	(H)
	62C	(C)	(H)
2305	54C	(D)	(I)
	62C	(D)	(I)
2320 and 4115	54D	(A)	(F)
	62D	—	(E)
2520 and 2720	62D	(B)	(G)

Power Flow™ Chute Attachment Chart



all models except 1023E and 1026R) in the center of chute according to the chart above.

1. Cut end of chute, and drill a 5 mm (3/16 in) hole (chute latch hole indentation is molded into plastic on

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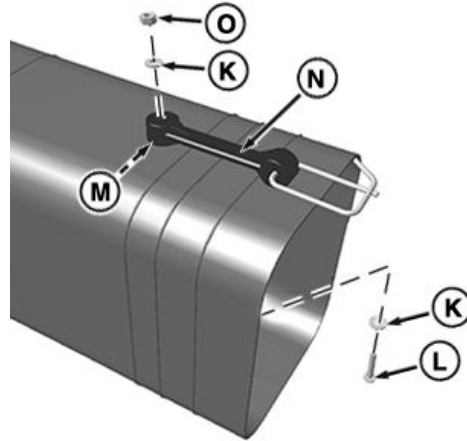
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DB71512,00001C8 -19-19JUN17-1/4

LV27693 —UN—19JUN17

2. Install washer (7/32 in) (K) on machine screw (3/16 x 1-1/4 in) (L). Put screw through chute latch hole (M) from inside of chute - hole determined by chart above.
3. Fasten strap (N) to chute with second washer (7/32 in) (K) and locknut (3/16 in) (O).

K—Washer (7/32 in)
 L—Machine Screw (3/16 x 1-1/4 in)
 M—Chute Latch Hole
 N—Strap
 O—Locknut (3/16 in)

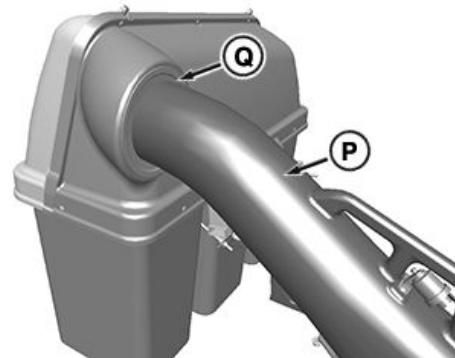


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DB71512,00001C8 -19-19JUN17-2/4

4. Insert round end of chute (P) into hopper opening (Q). Guide chute into hopper far enough to provide clearance for connection to the Power Flow™.

P—Round End of Chute
 Q—Hopper Opening



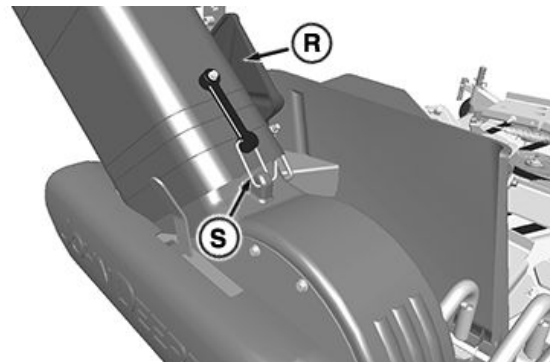
LV27695 —UN—09FEB17

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DB71512,00001C8 -19-19JUN17-3/4

5. Lift and hold open Power Flow™ exhaust door (R).
6. Slide chute completely onto blower outlet.
7. Secure strap hook (S) to loop on Power Flow™.
8. Close and latch the hopper lid.

R—Power Flow™ Exhaust Door
 S—Strap Hook



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DB71512,00001C8 -19-19JUN17-4/4

Remove

Remove and Empty Grass Bags

CAUTION: Avoid injury! Contents in grass bags will cause bagger to become heavy and unbalanced. Always remove and empty bags before removing bagger from machine.

1. Park the machine safely.
2. Remove and empty the grass bags.

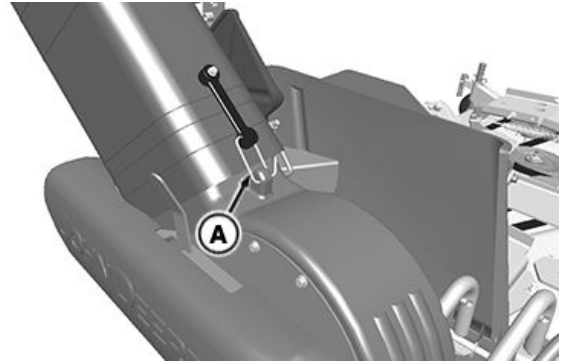
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Remove Power Flow™ Chute

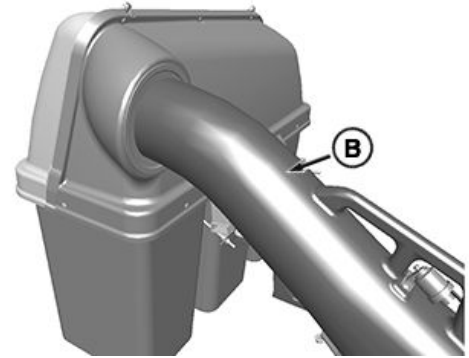
1. Open the hopper.
2. Release strap hook (A) from the Power Flow™.
3. Guide chute (B) into hopper until it detaches from the Power Flow™.
4. Remove chute from hopper.
5. Close and latch the hopper lid.

A—Strap Hook

B—Chute



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LV27698 —UN—09FEB17

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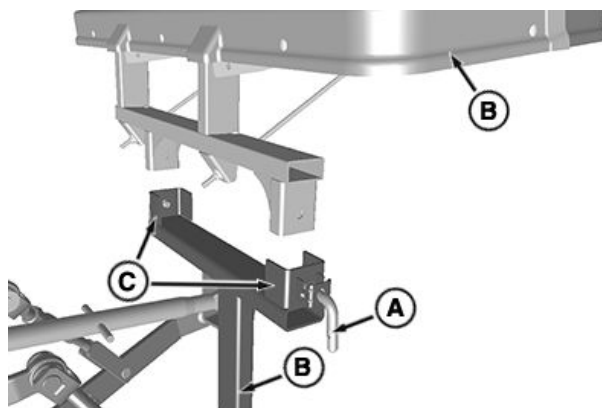
Remove Hopper Assembly

1. Remove grass bags.

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

2. Make sure hopper lid is latched.
3. Move Click-N-Go™ pins (A) to the locked open (vertical) position.
4. While standing at the rear of the bagger assembly, hold hopper assembly securely and raise hopper assembly (B) from slotted brackets (C) on lower mounting frame (D).
5. Pull hopper assembly away from machine, and lay on a non-abrasive surface.
6. Release the Click-N-Go™ pins from the locked open position.

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A—Click-N-Go™ pins
B—Hopper Assembly

C—Slotted Brackets
D—Lower Mounting Frame

LV27699—UN—09FEB17

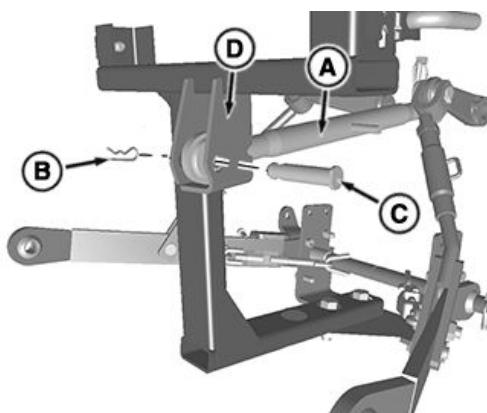
DB71512,00001CB -19-10FEB17-1/1

Remove Lower Mounting Frame

1. Remove pin and locking clip from front of center link (A). Remove spring locking pin (B) and pin (C) and remove center link from lower mounting frame bracket (D).

A—Center Link
B—Spring Locking Pin

C—Pin
D—Lower Mounting Frame Bracket



LV27700—UN—09FEB17

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DB71512,00001CC -19-09FEB17-1/2

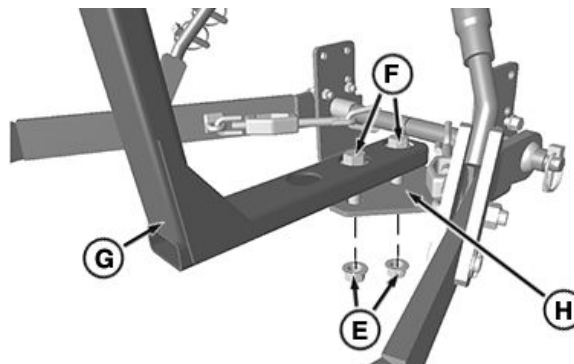
Remove

2. Remove lower mounting frame from rear of tractor:

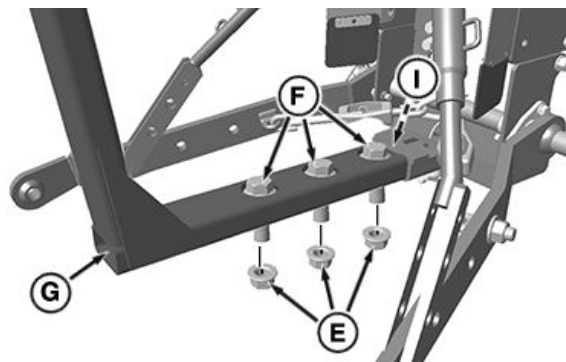
- For 1023E, 1026R, 2305 and 2210 tractors, remove two M20 flange nuts (E) and M20x60 bolts (F), and lower mounting frame (G) from rear hitch (H).
- For 2320, 2520 and 2720 tractors, remove three M20 flange nuts (E) and M20x60 bolts (F) and lower mounting frame (G) from rear hitch bar (I).

E—M20 Flange Nuts
F—M20x60 Bolts
G—Lower Mounting Frame

H—Rear Hitch
I—Rear Hitch Bar



LV27701—UN—09FEB17



LV27702—UN—09FEB17

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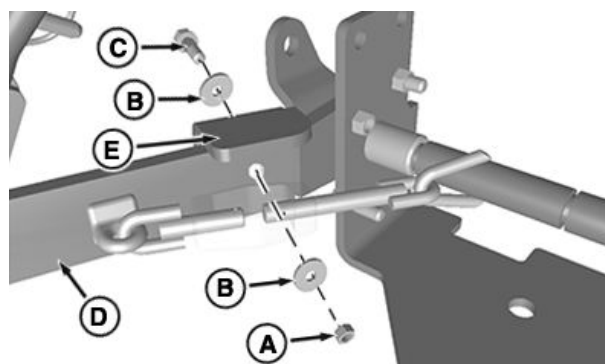
Removing Bellcrank Hardware (2210 and 2305 CUTS)

NOTE: In order to use the 3-point hitch for other attachments, the hardware that secures bellcrank to the left lift arm needs to be removed.

1. Remove M5 nut (A), two M5 washers (B), and M5x65 shear bolt (C) securing lift arm (D) to bellcrank (E).
2. Install the right lift link after the MCS frame has been removed.

A—M5 Nut
B—M5 Washer
C—M5x65 Shear Bolt

D—Lift Arm
E—Bellcrank



LV27703—UN—09FEB17

DB71512,00001CD -19-09FEB17-1/1

Remove Ballast

IMPORTANT: Avoid damage! Remove ballast from machine when no longer needed.

Remove front ballast. This will ensure proper operation of the machine when bagger is not installed.

DB71512,00001CE -19-09FEB17-1/1

Operate

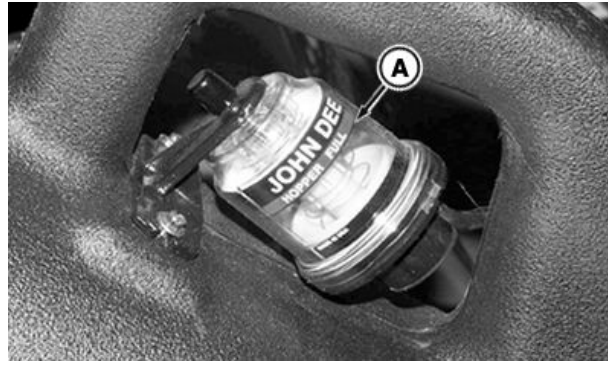
Use Fill Indicator

The material collection system requires unrestricted airflow from mower deck to bags for best performance. A fill indicator located on the bagging chute measures airflow through the system. As the grass bags become full, air pressure in the chute increases causing yellow diaphragm (A) to rise. The indicator will also show a hopper full condition if the chute is plugged somewhere between the indicator and hopper.

Maintain sufficient airflow:

- Keep the Power Flow™, chute, hopper, bags and underside of mower deck clean.
- Keep throttle lever at fast position but travel slow.
- Level mower front-to-rear so rear of mower is no more than 10 mm (3/8 in) higher than front of mower.
- Operate mower in higher cutting positions.
- Replace worn or damaged mower blades.
- Install optional baffle kit, if available, for your mower model. See your John Deere Dealer.

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LV27704—UN—09FEB17

A—Yellow Diaphragm

DB71512,00001CF -19-09FEB17-1/1

Dismount to Inspect or Unplug Material Collection System

CAUTION: Avoid injury! Do not attempt to unplug attachment with machine running.

- Rotating blades are dangerous. Shut off the engine and remove the key before getting off the seat to inspect the machine and attachment.
- Thrown objects can cause serious injury. Make sure all machine parts are stopped before raising hopper top or removing chutes.

1. Stop machine on a level surface, not on a slope.
2. Disengage 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.

Before getting off the seat:

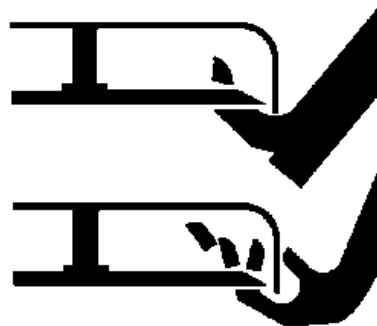
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Unplug Material Collection System

CAUTION: Avoid injury! To help prevent injury from mower blades, do not try to unplug discharge chute while engine is

1. Park machine safely.
2. Open the hopper. Check chute outlet.
3. Remove chute from the Power Flow™. Check chute inlet.
4. Swing the Power Flow™ away from mower deck. Check under mower deck for grass buildup and debris.

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LV27705—UN—09FEB17

DB71512,00001D1 -19-10FEB17-1/1

Remove and Install Grass Bags

Remove

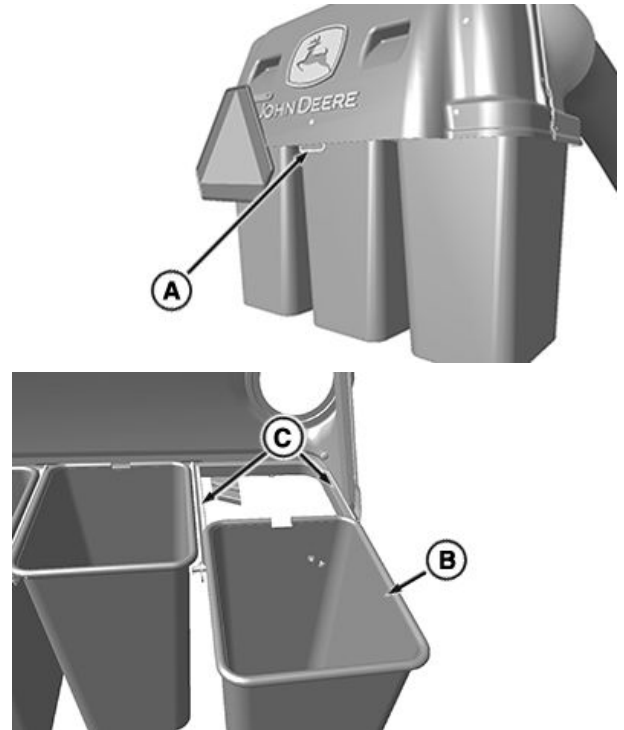
1. Pull back handle (A) to unlatch hopper lid.
2. Raise hopper lid.
3. Slide bags (B) from support frame (C).
4. Close hopper lid. Make sure lid is securely latched.

Install

1. Pull back handle (A) to unlatch hopper lid.
2. Raise hopper lid.
3. Slide bags (B) into position on support frame (C) so the safety decals are visible at rear of machine.
4. Close hopper lid. Make sure lid is securely latched.

A—Handle
B—Bags

C—Support Frame



LV27706 —UN—09FEB17

LV27707 —UN—09FEB17

DB71512,00001D2 -19-09FEB17-1/1

Fill the Bags

- Check level of clippings often.
- Empty bags when full to prevent plugging of chute.
- Left and center bags usually fill first.
- To avoid tipping, fill bags no more than 1/2 full when operating on slopes.

DB71512,00001D3 -19-09FEB17-1/1

Bagging Tips

- Run engine at full throttle. If engine slows down, reduce travel speed.
- Bag grass only when grass is less wet. Wet grass is more likely to plug the mower deck and material collection system.
- Always keep hopper top latched to achieve an airtight seal.
- Install optional baffle kit to mower deck if clippings continually trail behind or blow to the side of the mower. See your John Deere Dealer for availability.
- Pick up all rocks, stones, twigs, and other debris before mowing and bagging. Cut grass higher than desired the first time so mower will clear unseen obstructions that could cause damage to the mower or material collection system.

IMPORTANT: Avoid damage! Do not leave clippings in bags:

- Damp clippings are a fire hazard.

• Moisture may damage bags.

- Never leave grass or leaves in the bags overnight or for long periods of time. Dampness from leaves and grass will cause deterioration of the bags. Also, damp leaves and grass when contained in the bags, are combustible and can create a fire. For this reason, never store garbage bags of leaves or grass bagging equipment with full or partially filled bags in a garage or other enclosure. Grass clippings make excellent compost. Clippings can also be used as mulch between garden rows or around flowers, shrubs and trees.
- Plastic lawn and leaf or garbage bags can be placed inside the cloth bags to facilitate disposal of grass or leaves. Use (45 gal) lawn and leaf bags. Drape enough of the plastic bag over the outside of the cloth bag on all sides so the bags can easily be tied shut after filling. To remove a plastic bag, first tie the bag shut. Remove cloth bag with plastic bag from hopper. Lift plastic bag out of cloth bag and dispose of clippings.

DB71512,00001D4 -19-13FEB17-1/1

After Bagging

IMPORTANT: Avoid damage! Do not leave clippings in bags:

- **Moisture may damage bags.**
- **Damp clippings are a fire hazard.**

Immediately empty clippings from cloth bags. Allow the bags to dry after mowing to prevent deterioration.

Let engine cool to help prevent starting a fire when you store the mower.

Clean top of deck, engine, and material collection system with compressed air, if possible, to help prevent buildup and fire.

Clean under deck with water under pressure, to help prevent buildup and remove corrosive lawn chemicals. After washing deck, run mower for a few minutes to dry.

DB71512,00001D5 -19-09FEB17-1/1

Transport MCS

If the material collection system will be left on the tractor during transport, follow these guidelines when trailering the unit:

- Empty the cloth bags and remove them from the hopper. Full bags add extra weight which can overstress the

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hopper frame on rough roads. At road travel speeds, wind can cause premature wear of the cloth bags.

- Make sure the hopper cover is latched securely to the hopper frame.
- If unit will be transported over long distances or at high speeds, remove the rear bagger or Power Flow™ chute before transport.

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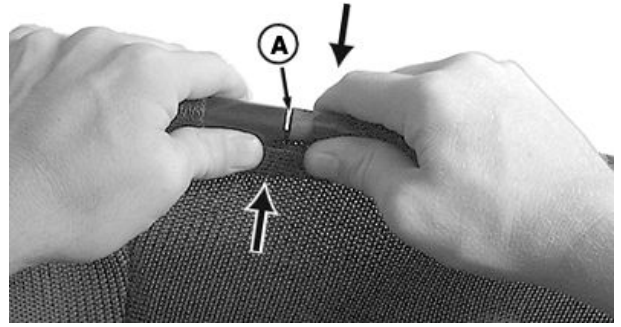
Service

Replace Grass Bags

1. Park machine safely.
2. Remove bags from hopper.
3. Slide bag around frame until frame seam (A) appears at bag opening.

IMPORTANT: Avoid damage! Do not bend ends of frame tube more than 13 mm (1/2 in) or frame may become distorted.

4. Pull apart the frame tube. Gently push the tube ends in opposite directions to provide 13 mm (1/2 in) clearance for bag removal.



A—Frame Seam

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LV27708 —UN—09FEB17

5. Work the bag material around the frame tube until the bag is removed.
6. Work the new bag onto the frame tube.
7. Connect the ends of the frame tube.
8. Adjust bag so safety decal is visible at rear of machine when bag is installed.



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Troubleshooting

Use Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your John Deere Dealer for service.

When you have checked all the possible causes listed, and you are still experiencing the problem, see your John Deere Dealer.

Issue	Solution
Fill Indicator Prematurely Shows Hopper is Full	Plugged chute.
Fill Indicator Not Working	Airflow pickup tube damaged, plugged or not installed properly.
Not All Grass is Picked Up	Grass is too wet. Throttle speed too slow. Travel speed too fast. Grass bags are full. Hopper exhaust screen is dirty. Plugged chute or Power Flow™. Plugged or dirty mower deck. Incorrect or dull mower blades. Mower deck not leveled properly. Mower cutting height too low.
Grass Clippings Trail Behind or Blow to the Side of Mower	Plugged chute. Problem with the Power Flow™. Grass bags are full.
Power Flow™ or Chute Plugs	Grass is too wet. Throttle speed too slow. Travel speed too fast. Grass bags are full. Hopper exhaust screen is dirty. Mower deck not leveled properly. Mower cutting height too low. Plugged or dirty mower deck.
Grass Leaks From Hopper	Hopper top not latched. Hopper seal damaged or missing.

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Storage

Put in Storage

1. Remove the material collection system.
2. Empty and clean the hopper, chute and Power Flow™.
3. Remove any ballast used during bagging. This will ensure proper operation of the tractor when the material collection system is not installed.
4. Replace missing or damaged parts. Make sure all hardware is secure.
5. Paint scuffed metal surfaces to prevent rust.

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IMPORTANT: Avoid damage! Abrasive surfaces can damage attachment. Store attachment on non-abrasive surface or on wooden blocks.

6. If possible, store the hopper, chute, and Power Flow™ in a cool, dark place and on a non-abrasive surface. If these parts must be stored outside, put a weatherproof cover over them.
7. Fold the grass bags flat, or hang them upside down away from pests and out of the weather.

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Remove From Storage

1. Remove material collection system from storage; clean if necessary.
2. Check bags for signs of deterioration or damage. Replace as needed.
3. Install front ballast to machine.
4. Install bagger.

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John Deere Service

John Deere Quality

John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your John Deere dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.

Step 1

Refer to your operator's manual

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2

Contact your dealer

- A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your dealer's trained parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner.
- D. If your questions or problems are not resolved by the dealer, then go to Step 3.



JOHN DEERE

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Step 3

Contact John Deere

- A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, contact John Deere for assistance.
- B. For prompt, effective service, please have the following ready before you call:
 - The name of the dealer with whom you've been working.
 - Your serial number which you recorded on the inside front cover of this manual.
 - Your equipment model number.
 - Number of hours on machine (if applicable).
 - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 (United States and Canada) and our advisor will work with your dealer to investigate your concern. If you are outside the United States and Canada, contact us at the following website: www.deere.com/wps/dcom/en_US/regional_home.page.

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