

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Blower and Rear Bagger
2 and 3 Bag Material Collection System

OMTCU29191 J0

OPERATOR'S MANUAL



JOHN DEERE

Original Instruction

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North American Version

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INTRODUCTION

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Introduction

Using Your Operator's Manual

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

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

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

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

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

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

Product Identification

Product Compatibility

- The blower is compatible with all models.
- The 2 Bag Rear Bagger is compatible with the ZTrak Estate Z500 series mowers, and ZTrak PRO Z800 and Z900 series mowers (any model up to a 54 inch mower deck).
- The 3 Bag Rear Bagger is compatible with the ZTrak PRO Z800 and Z900 series mowers.

PRODUCT IDENTIFICATION

Record Identification Numbers

Blower

Serial Number (040001-)

If you need to contact an Authorized Service Center for information on servicing, always provide the product model and serial number.

You will need to locate the serial number (A) for the attachment. Record the information in the spaces provided below.



MX22809

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

SAFETY LABELS

Safety Labels



Understanding The Machine Safety Labels

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

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

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

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

WARNING - M118454

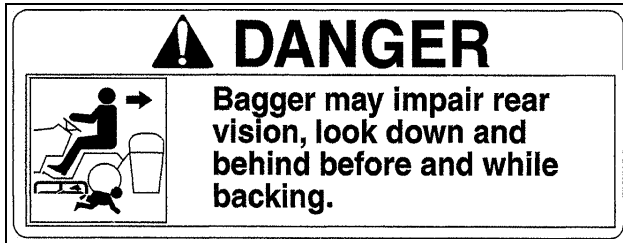


M118454

Rotating Blade -Thrown Objects

- Operate blower with entire grass catcher secured in place.

DANGER

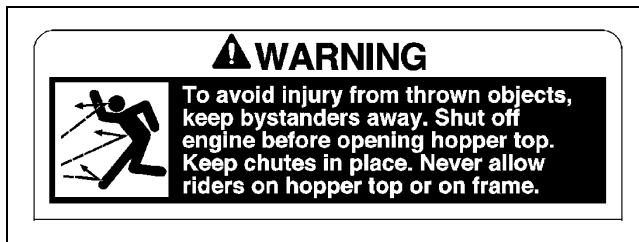


M146238

Picture Note: Located on front side of bagger hopper.

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

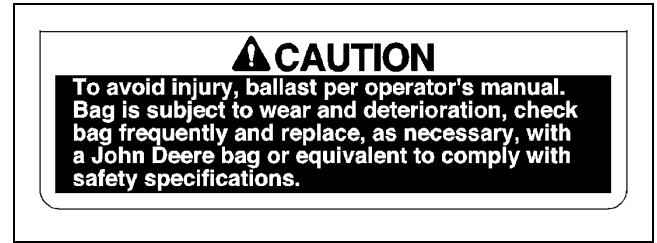
WARNING



M151187

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

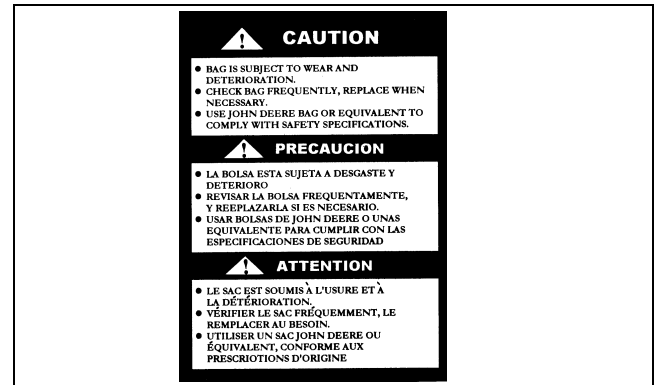
CAUTION



M151187

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

CAUTION



GC00215

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

Safety

Read Safety in Machine Operator's Manual

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

Operating Safely

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

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

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

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

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 bag removal or installation:

- Stop mower.
- Disengage mower or PTO.
- Stop engine and remove key.

SAFETY

- 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 bags when they are 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.

Bag and Hose Maintenance:

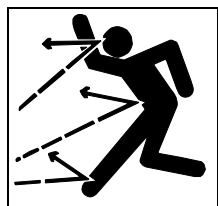
- Bag and hose are subject to wear and deterioration.
- Check bag and hose frequently; replace when necessary.
- Use John Deere bag and hose or equivalent to comply with safety specifications.
- Do not leave clippings in bags overnight.

Parking Safely

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

Protect Children

- Tragic accidents can occur if the operator is not alert to the presence of children. Keep children indoors when the machine and attachment are operated and under the watchful care of another responsible adult.
- Never assume that children will remain where you last saw them. Stay alert to the presence of children. Turn the machine off if a child enters the work area.
- Do not let children or an untrained person operate the machine.
- Do not carry or let children ride on any attachment or machine even with the attachment off. Do not tow children in a cart or trailer.



Avoid Injury From Thrown Objects

- When operating the vehicle with the MCS attachment installed make sure all chutes and hoses are securely in place. Keep hopper closed or MCS in operating position.
- Stop the engine and wait for all moving parts to stop before removing or lifting any attachment components.

- Avoid injury from impeller blades and thrown objects. Remove attachment when operating vehicle in side discharge mode. Make sure deflector shield is in place on mower deck if attachment is removed.



Avoid Injury From Rotating Blades

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

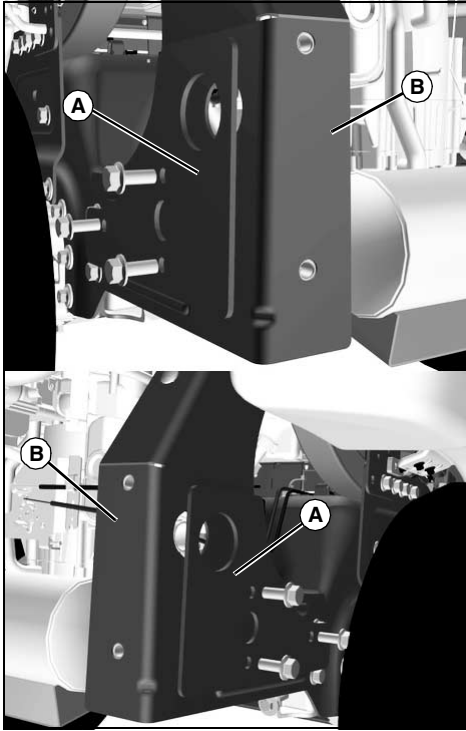
Practice Safe Maintenance

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

PREPARING VEHICLE

Preparing Vehicle

Verify Frame Member Reinforcement



MX19962, MX2965a

The assembly section of this manual refers to the removal and installation of side plates (A) and reinforced frame members (B).

Determine if mower is equipped with reinforced frame members. If not, parts (TCA19292 and TCA19293) must be ordered and installed on mower prior to installing MCS.

- Reinforced frame members and side plates are not necessary on ZTrak Estate series.
- Reinforced frame members are factory installed on ZTrak Pro series models listed below. Removal of frame members and installation of side plates is not necessary.
 - Z810A through Z850A - serial numbers 020001 and above.
 - Z860A
 - Z900A Series
- Confirm that mower is equipped with reinforced frame members by measuring material thickness:
 - Reinforced frame members are 4.55 mm (3/16 in.) thick.
 - Non-reinforced frame members are 3.42 mm (1/8 in.) thick.

Checking Tire Pressure

Check tire pressure of machine before installing bagger. See your machine operator's manual.

Installing Proper Mower Blades

IMPORTANT: Avoid damage! When replacing mower blades, always use genuine John Deere Service Parts.

- For best performance, always use correct mower blade for job being performed.
- Always follow safety and service instructions in the machine operator's manual when changing mower blades.

For maximum performance from your material collection system (MCS), install the correct mower blades for your application:

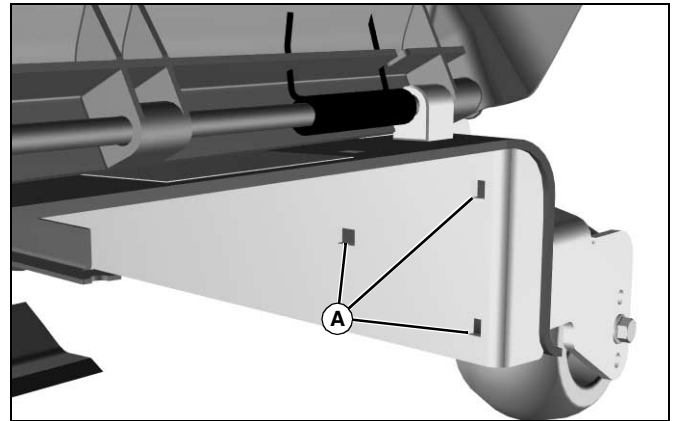
- Mulching Blades - Not for use with MCS.
- Standard Blades - Standard blades are designed for bagging, side discharging, and all mowing conditions.

Installing Mounting Bracket for MCS Blower



CAUTION: Avoid injury! Rotating blades are dangerous. Before adjusting or servicing mower:

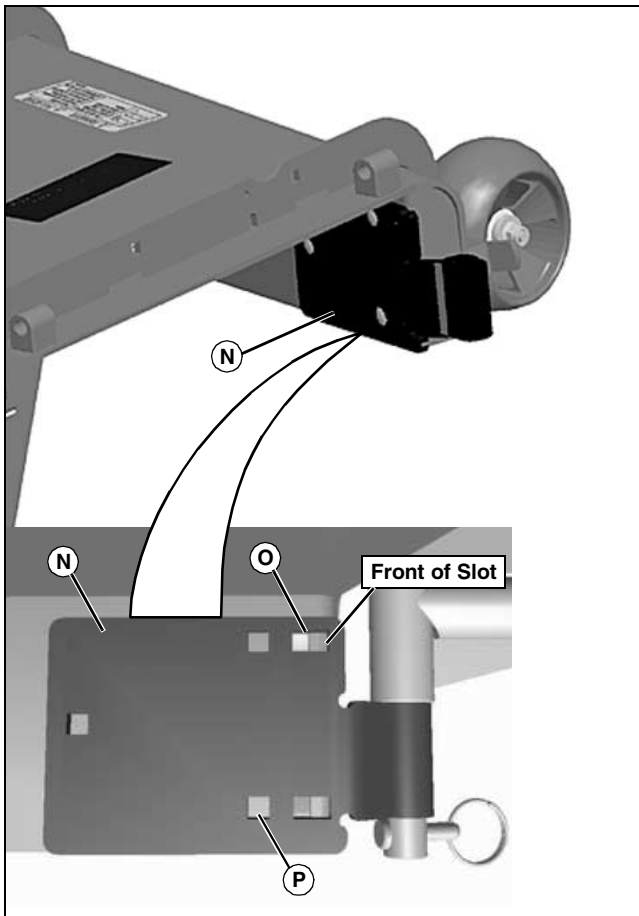
- Disconnect spark plug wire(s) or battery negative (-) cable to prevent engine from starting accidentally.
- Always wear gloves when handling mower blades or working near blades.



MX25142

1. Lift discharge chute up and locate mounting holes (A) for front bracket.

PREPARING VEHICLE

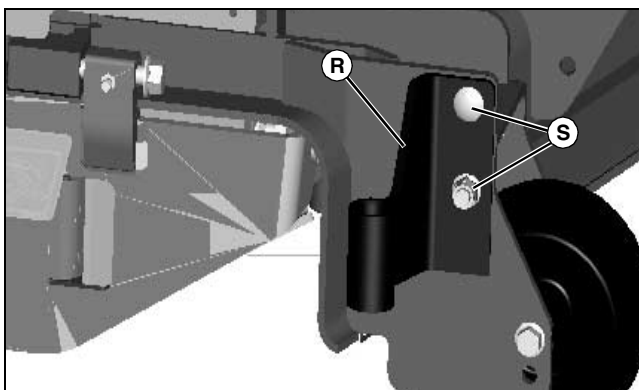


MX23678, MX22841

Picture Note: Hardware removed for clarity. Position bracket as shown with blower pivot tube toward bottom.

2. Position front pivot bracket (N) flush with deck.
3. Install and tighten three M8 X 25 carriage bolts and locknuts in locations listed below:
 - 48 in. deck located in back of slot (O)
 - 54 in. deck located in the middle of slot (O)
 - 60 in. deck is located front of slot (O).
 - 72 in. deck is location (P).

Bracket Assembly for all Mulch on Demand Decks.

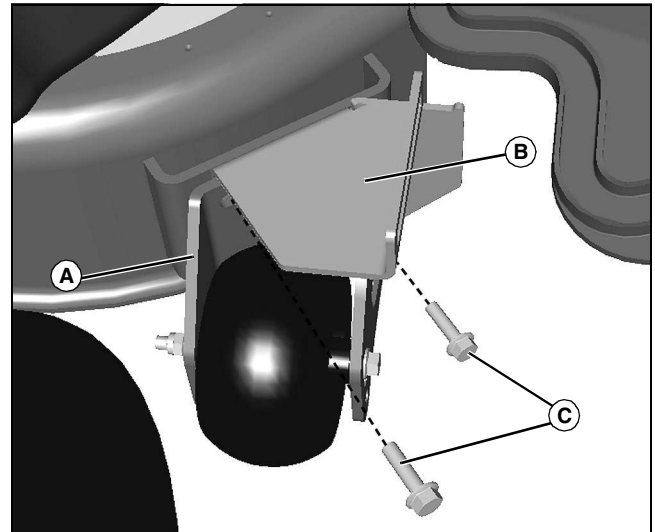


MX26037

1. Position front pivot bracket (R) flush with outside scalp wheel frame.

2. Install and two M8 X 25 carriage bolts (S) and locknuts, and secure bracket into place.

Install Blower Support Bracket



MX47240

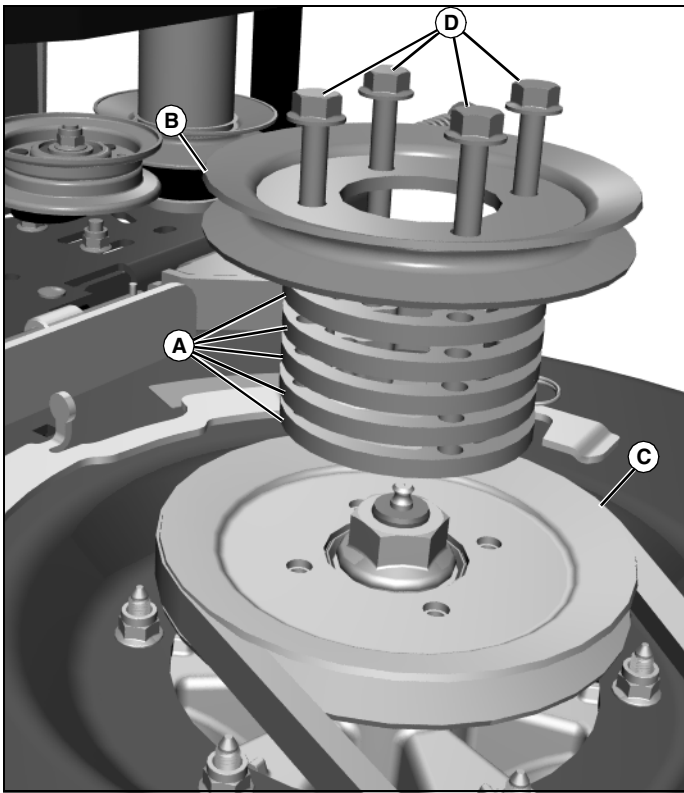
Picture Note: Z800/Z900 Series shown

1. Remove screws and rear right anti scalp wheel assembly (A) from mower deck.
2. Position blower support bracket (B) in place flush against deck.
3. install anti scalp wheel onto bracket and secure in place with new provided M8x30 screws (C).

Install Pulley and Spacer

1. Remove belt shield on discharge chute side of mower deck.

PREPARING VEHICLE



MX25080

2. Install five spacers (A) and extra pulley (B) on sheave (C) using four M8x50 flange head bolts (D), and tighten to 24 N•m (18 lb-ft).

Install New Gate (Mulch on Demand Mower Decks Only)

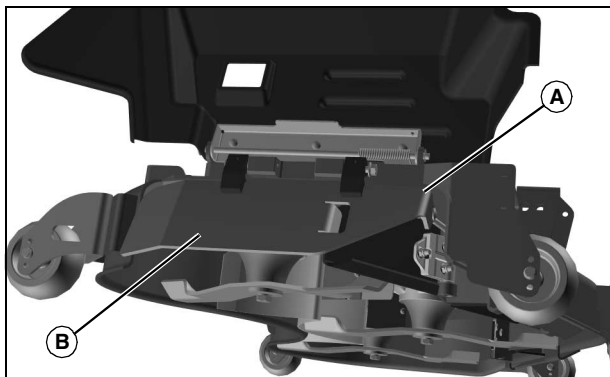
1. Park machine safely. (See Parking Safely in the SAFETY section.)



CAUTION: Avoid injury! Rotating blades are dangerous. Before adjusting or servicing mower:

- Disconnect spark plug wire(s) or battery negative (-) cable to prevent engine from starting accidentally.
- Always wear gloves when handling mower blades or working near blades.

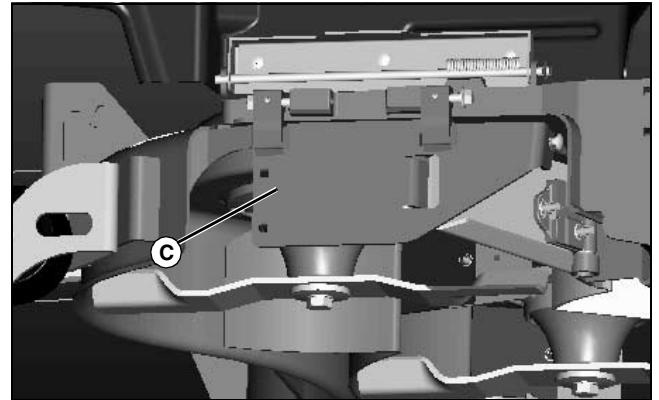
2. Lift discharge chute up.



MX25143

3. Remove link assembly (A).

4. Remove discharge gate (B).

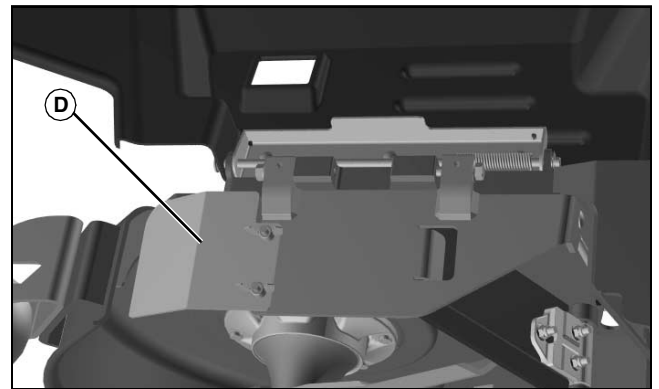


MX26043

5. Install new gate (C) and attach link assembly.

Gate Extension for MCS Gate

NOTE: Gate extension must be installed if machine is operated without MCS blower.

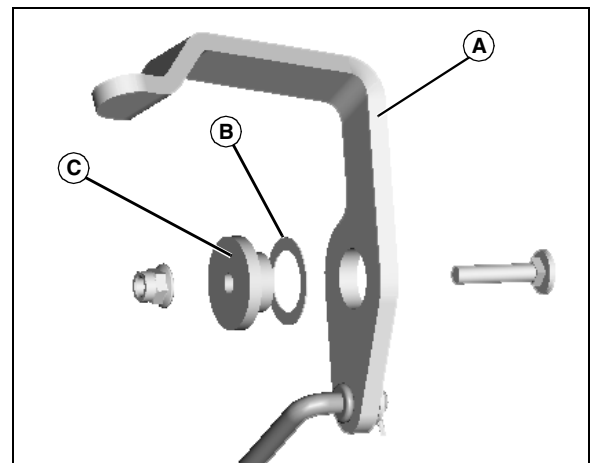


MX25143

1. Install gate extension (D) with hardware and secure in place.

Install Mulch-On-Demand Position Lever (Mulch on Demand Mower Decks Only)

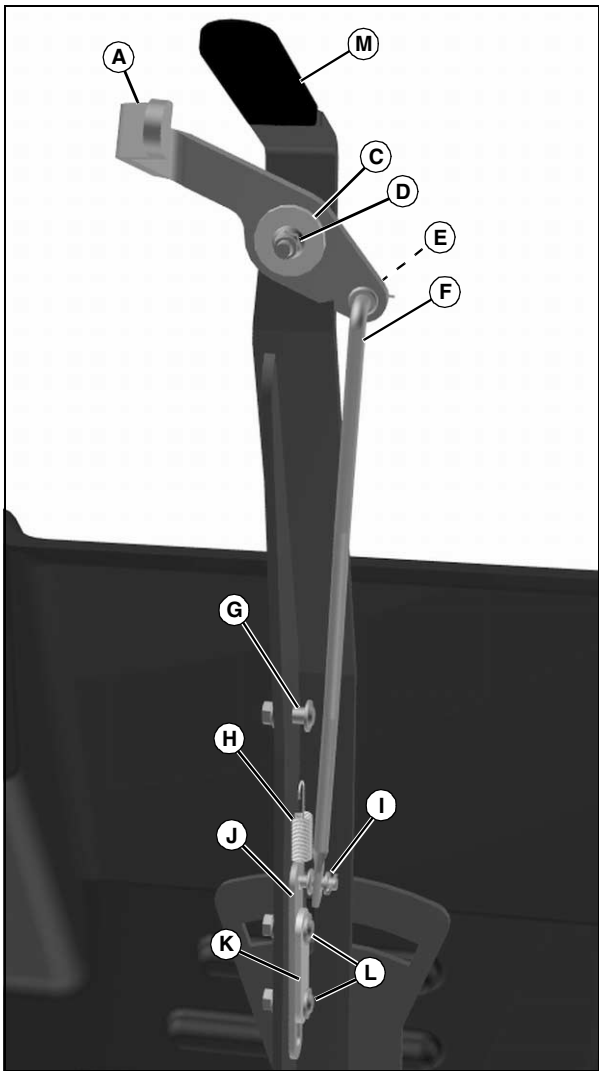
1. Park machine safely. (See Parking Safely in the SAFETY section.)



MX26039

2. Place shim washer (B) onto Insert bushing (C).

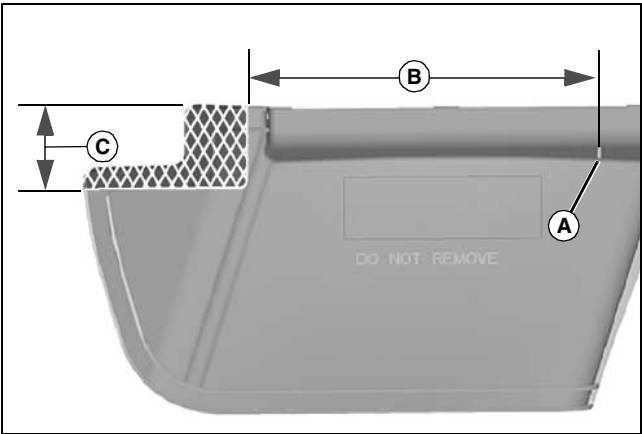
PREPARING VEHICLE



MX25145

3. Insert bushing (C) into lever release (A) and attach to deck mode lever (M) with M6x30 cap screw and nut (D). Tighten hardware.
4. Position pawl plate (J) and shim latch (K) in place and secure with two M6x21 socket head shoulder bolts and nuts (L). Do not overtighten hardware.
5. Install M6x21 socket head shoulder bolt and nut (G). Tighten hardware.
6. Install tension spring (H) from pawl plate (J) to socket head shoulder bolt (G).
7. Install link latch (F) to lever release and pawl plate. Secure link latch with M8.4x1.6 washer and cotter pin (E) and M6.4x1.6 washer and cotter pin (I). Spread cotter pins to secure in place.

Trim Discharge Chute



MX22932

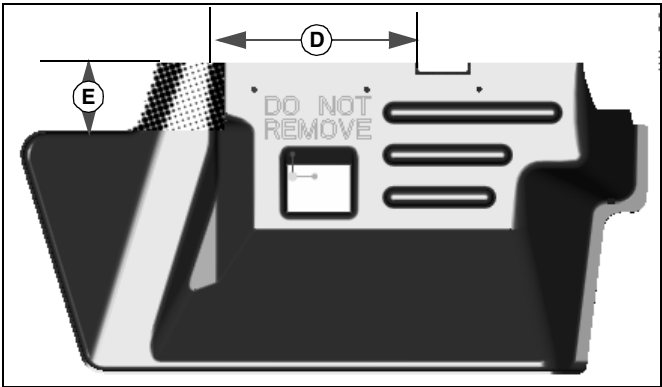
1. Begin at point (A) and measure distance (B) as shown. Scribe a mark.
2. Measure distance (C) beginning from hinge side of guard as shown. Scribe a mark.
3. Extend lines from both marks so they meet at a 90° angle and identify the shaded area as shown.
4. Remove shaded area using a suitable cutting tool.

Specifications

Distance (B) 423.00 ± 0.80 mm (16.65 ± 0.03 in.)

Distance (C) 88.66 ± 0.80 mm (3.50 ± 0.03 in.)

Specifications (For Mulch on Demand Decks)



MX26038

Distance (D) 270.00 ± 0.80 mm (10.62 ± 0.03 in.)

Distance (E) 85.00 ± 0.80 mm (3.34 ± 0.03 in.)

Installing Weight Bracket

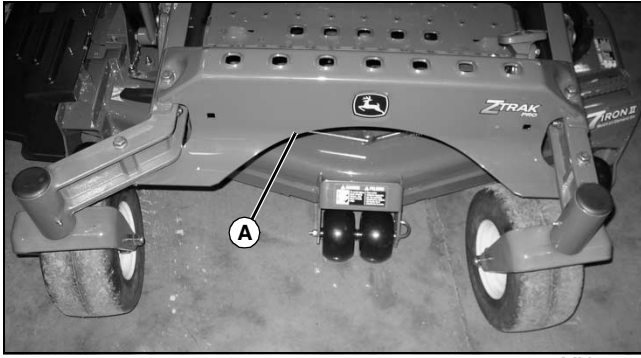
Parts in Kit (Weight Bracket)

Qty.	Description
1	Bracket, Weight
2	Carriage Bolt, M12x35
2	Carriage Bolt, M12x50
4	Locknut, Flange

1. Park machine safely.

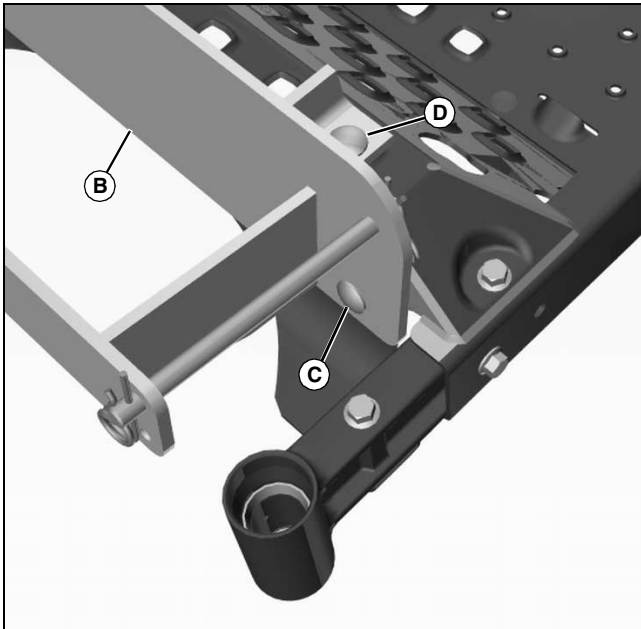
ASSEMBLY

NOTE: Secure and support vehicle as required. Take all safety precautions.



MX25036

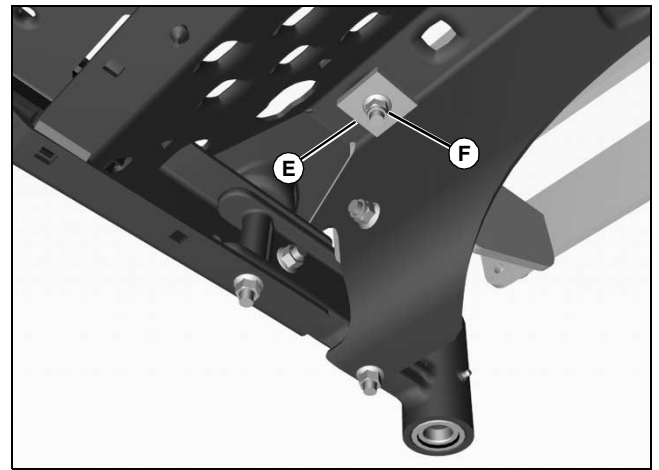
2. Clean front cross member (A) area of any debris.
3. Center weight bracket on cross member.



MX25037

Picture Note: Front caster wheel not shown for photo clarity only.

4. Align front mounting holes of the weight bracket (B) with the holes in the cross member.
5. Install M12x35 carriage bolts (C) and nuts. Tighten all hardware.
6. Install M12x50 carriage bolts (D) through top of weight bracket.



MX25038

7. Install backing plates (E) and nuts (F). Tighten all hardware.

Assembly

2 Bag Rear Bagger Parts List

When installing the 2 Bag MCS on Z500 Estate Series machines, a rear bumper and rear anti-scalp wheel kit are required. See your John Deere dealer for ordering information.

Qty.	Description
1	Tube, Support Assembly
1	Frame, Welded Bag Support (E-Frame)
1	Chute, Upper Chute Assembly
1	Rod, Gusset
1	Bag Assembly, LH Medium Weave
1	Bag assembly, RH Medium Weave
1	Hopper, Two Bag Bagger Assembly
1	Duct Assembly, 2 Bag Chute
2	Plate
6	Carriage Bolt, M8x25
6	Locknut, Hex Flange, M8
12	Carriage Bolt, M10x30
6	Locknut, Hex Flange, M6x1
16	Locknut, Hex Flange, M16x1.5
8	Locknut, Hex Flange, M12x1.75
2	Flange Head Bolt, M8x30
4	Pin, Spring Locking
1	Bracket, Blower
1	Support, 2 Bag Hopper

ASSEMBLY

Qty.	Description	Qty.	Description
1	Bracket, Blower Mount	1	Grip, Mode Change Release
1	Bracket, Ballast Mount	1	Lever, Release
1	Lever, Lock	1	Link, Latch 48M
1	Belt	1	Shim, Latch
1	Boot, Deflector	1	Shim, Circular
1	Bracket, LH MCS Hopper Mount	3	Hex Socket Head Shoulder Bolt, M6x23
1	Bracket, RH MCS Hopper Mount	1	Cover
1	Bracket, Support Blower Mount	1	Gate, 48M/54M, MCS
2	Rod	1	Plate, Gate Extension
5	MCS Spacer	1	Carriage Bolt, M6x30
1	MCS Pulley	2	Pin, Cotter, 2x16
1	Carriage Bolt, M12x35	3	Nut, M6x1
3	Carriage Bolt, M12x50		
2	Reinforcement		
6	Carriage Bolt, M6x20		
4	Flange Head Bolt, M10x30		
4	Flange Head Bolt, M12x30		
4	Flange Head Bolt, M8x50		
1	Hex Socket Head Bolt, M6x20		
4	Nut, Hex 3/8		
4	Washer, 10-18		
2	U-Bolt, Square 50.8 in.		
1	Shield		
2	Plate, MCS		
4	Nut, Prevailing Torque		
1	Frame Member, Left		
1	Frame Member, Right		

3 Bag Rear Bagger Parts List

Qty.	Description
1	Hopper Assembly, 3 Bag
2	Locknut, M6x10
2	Flange Head Bolt, M6x30
2	Washer, .281x.625 in.
20	Carriage Bolt, M10x25
20	Locknut, M10x1.5
2	Spring Locking Pin, 3.76mm
2	Support, MCS Hopper, Left
1	Rod, MCS Upper Support
2	Latch, MCS
2	Strap
2	Hook
3	Bag, HD 3 Bag Bagger With Handle
1	Door Assembly, MCS
1	Support, MCS Hopper, Right
1	Link, Support
1	Plate
1	Plate, MCS
1	Carriage Bolt, M12x35
3	Carriage Bolt, M12x50
6	Carriage Bolt, M8x25

Mulch on Demand Decks Only

Qty.	Description
1	Mount
2	Plate, MCS
1	Washer, 8.4x15
1	Washer, 6.4x11
2	Nut, Locking Wing
1	Spring, Tension
1	Pawl, Mode Latch

ASSEMBLY

Qty.	Description	Qty.	Description
14	Carriage Bolt, M10x30	4	Flange Head Bolt, M8x50
12	Locknut, M6x1	1	Hex Socket Head Bolt, M6x20
18	Locknut, M10x1.5	1	Bracket
8	Locknut, M12x1.75	2	Knob, Locking
2	Flange Head Bolt, M12x60	4	Nut, Hex 3/8 in.
2	Flange Head Bolt, M8x30	4	Washer, 10-60HV
6	Pin, Spring Locking	2	U-Bolt, Square 50.8 in.
2	Flange Locknut, M12x1.75	2	Bolt, Hex Head, .375x6.0 in.
1	Bracket, Blower	1	Shield, 60&72" only
1	Support, DFS Hopper	3	Pin, M10x60
1	Bracket, Blower Mount	3	Ring, Locking
1	Bracket, Ballast Mount	1	Frame Member, Left
1	Lever, Lock	1	Frame Member, Right
1	Belt	M-Series Only	
1	Boot, Deflector	Qty.	Description
1	Bracket, LH MCS Hopper Mount	1	Washer 8.4x15
1	Bracket, RH MCS Hopper Mount	7	Spacer
1	Bracket, Support Blower Mount	1	Shim, Circular
5	Spacer	1	Washer, 6.4x11
2	Rod	2	Nut, Locking Wing
2	Plate, MCS	3	Shoulder Bolt, Socket Head, M6x21
5	MCS Spacer	1	Mount
1	MCS Pulley	1	Spring Tension
1	Duct, Upper	1	Pawl, Mode Latch
1	Duct, Lower	1	Grip, Mode Change Release
1	Pin, Lower Duct	1	Lever, Release
1	Hose	1	Link, Latch 48M
2	Reinforcement	1	Shim, Latch
4	Carriage Bolt, M6x16	1	Gate, 48M/54M, MCS
5	Carriage Bolt, M8x40	1	Plate, Gate Extension 48M/54M
6	Carriage Bolt, M6x20	1	Carriage Bolt, M6x30
12	Locknut, M8x1.25	2	Pin, Cotter, 2x16
4	Nut, Prevailing Torque	Blower Assembly Parts List	
2	Nut, M6x1	Qty.	Description
4	Flange Head Bolt, M10x30	1	Assembly, Blower
4	Flange Head Bolt, M12x30		

ASSEMBLY

Qty.	Description
1	Mat, Access Cover
1	Tension Rod Assembly, Primary
1	Pin, Lynch
1	Belt, Primary Drive

Assemble Blower

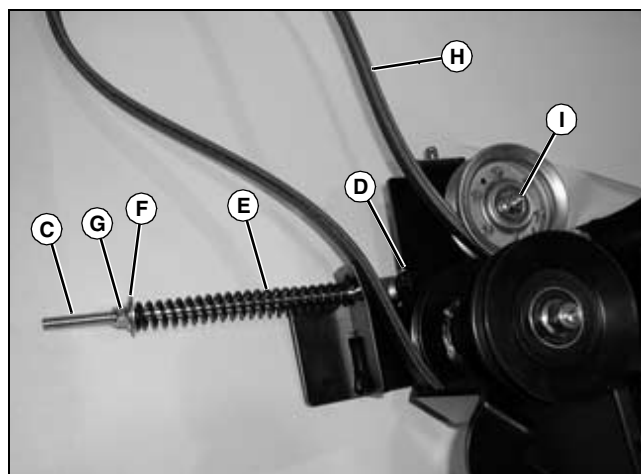


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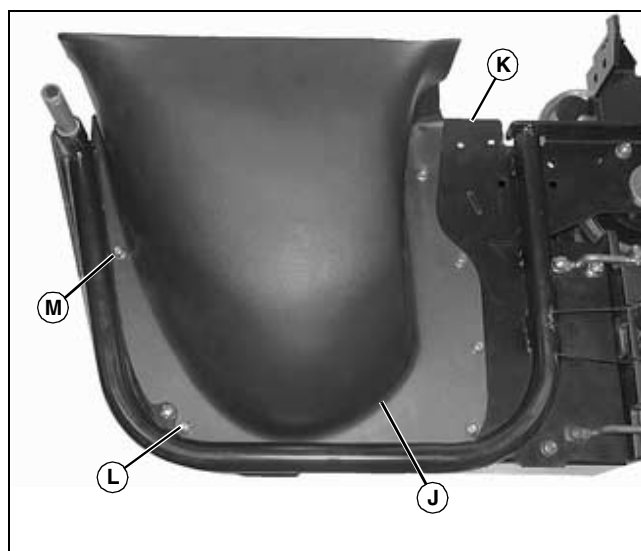
MX22735

1. Remove belt guard (A) and secondary drive belt (B).



MX22776

2. Install primary tension rod (C), retaining clip (D), spring (E), washer (F), and locknut (G).
3. Install primary drive belt (H).
4. Tighten hardware on idler pulley (I).
5. Install secondary drive belt (B) and tighten idler pulley.
6. Adjust secondary drive belt.
7. Install belt guard (A).

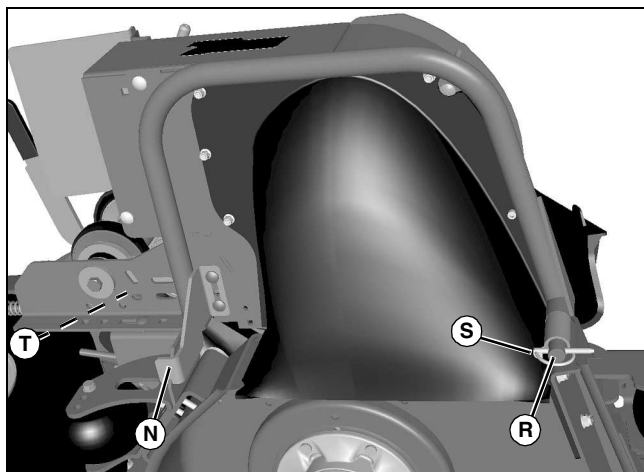


MX22739

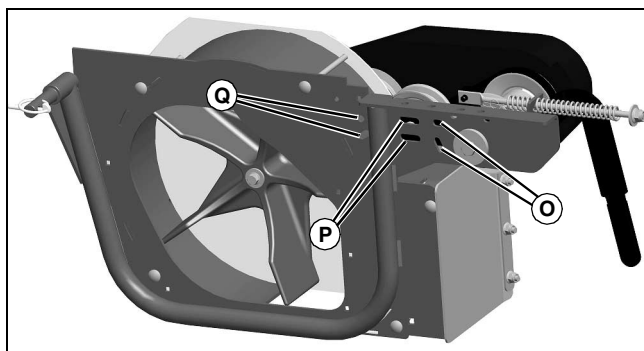
Picture Note: Deck boot for 48/54 in. shown. Socket head cap screw (M) must be installed in this location.

8. Install blower boot (J) on the bottom of blower housing (K) using the appropriate quantity of M6x20 carriage bolts (L) and one M6x20 socket head bolt (M) with M6 locknuts.

ASSEMBLY



MX47237



MX43144

9. Install rear mounting bracket (N) using two M8x25 carriage bolts and locknuts:

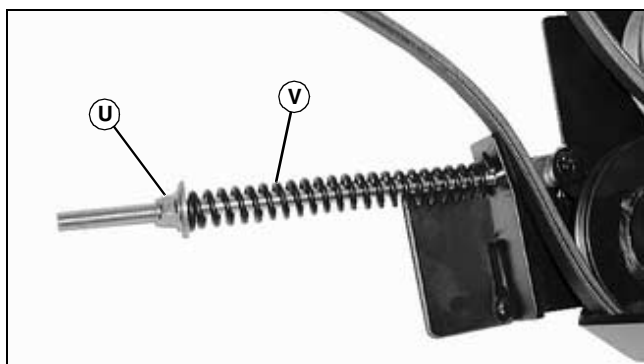
- For 72 in. decks, place bracket into slots (O).
- For 60 in. and all Mulch on Demand decks, place bracket into slots (P).
- For 48 and 54 in. decks place bracket into slots (Q).

10. Install blower front pivot pin (R) and secure with lynch pin (S) in front mounting bracket. Swing blower into position, and align rear mounting bracket to install release handle (T) and M8x25 carriage bolt.

11. Tighten hardware on rear mounting bracket.

12. Connect primary drive belt from blower to drive sheave on deck.

13. Install primary belt guard onto deck.



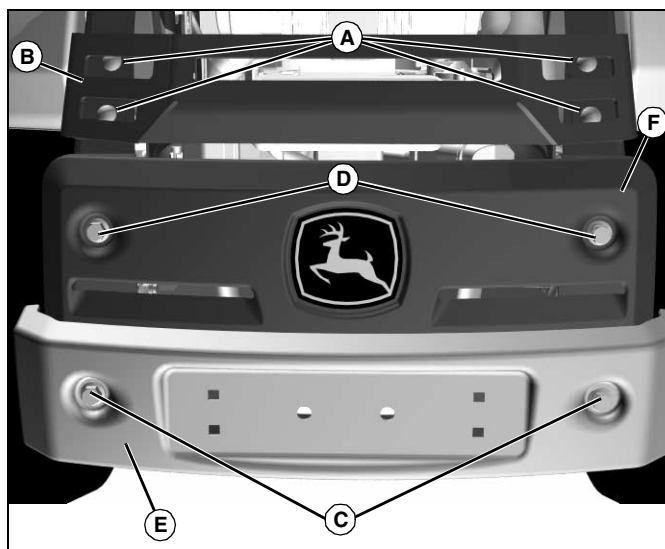
MX22741

14. Adjust primary drive belt.

15. Tighten nut (U) on tension rod until spring (V) length is 150 +/- 10 mm (6.0 +/- 0.4 in.).

Assemble Frame (2 Bag)

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



MX25070

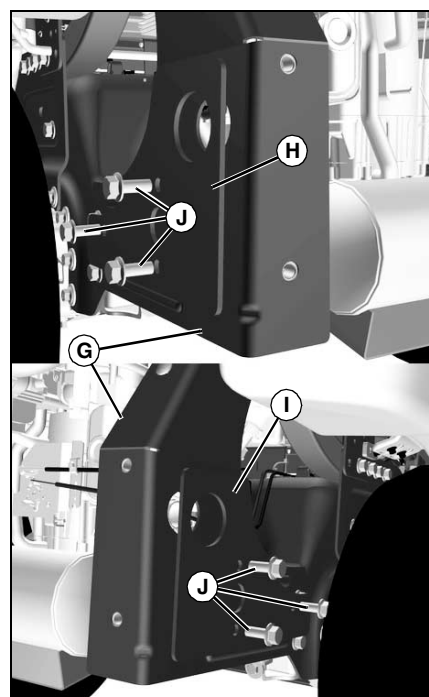
2. If model is equipped with an engine guard, remove four locknuts, washers, and carriage bolts (A), and remove engine guard (B).



CAUTION: Avoid injury! Bumper weighs approximately 90 lbs. John Deere recommends that two people be used when removing bumper from machine.

3. Remove two M12 nuts (C) and two M12x30 flange head bolts (D). Remove bumper (E) and rear grille (F).

NOTE: Refer to Verify Frame Member Reinforcement in Preparing Vehicle section to determine if the following two steps are necessary.



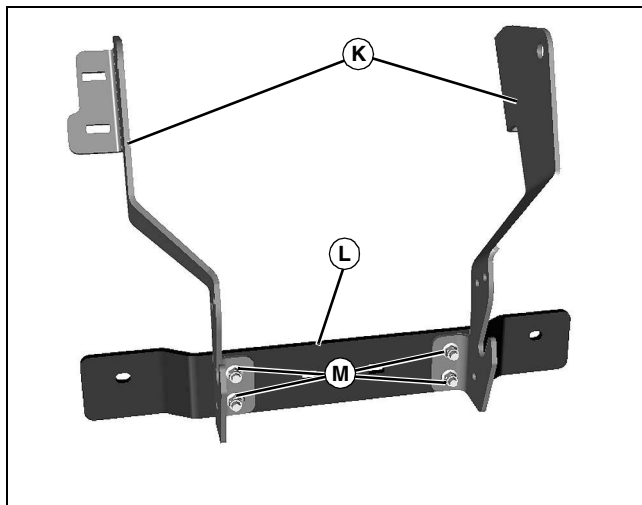
MX25074

4. Remove three M12x30 flange head bolts on each side holding the rear

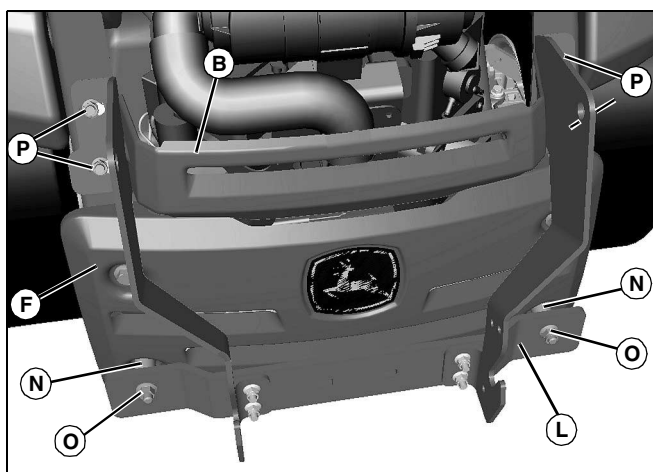
ASSEMBLY

frame members (G). Remove frame members and replace with reinforced frame members provided. Tighten frame flange head bolts to 115 N•m (85 lb-ft).

5. Install left plate (H) and right plate (I) with three M12x30 flange head bolts (J), washers, and locknuts on each side.



6. Install two side brackets (K) to the steel bumper (L) with four M10 flange head bolts (M) and locknuts. Leave slightly loose until tops of brackets are secure in place.

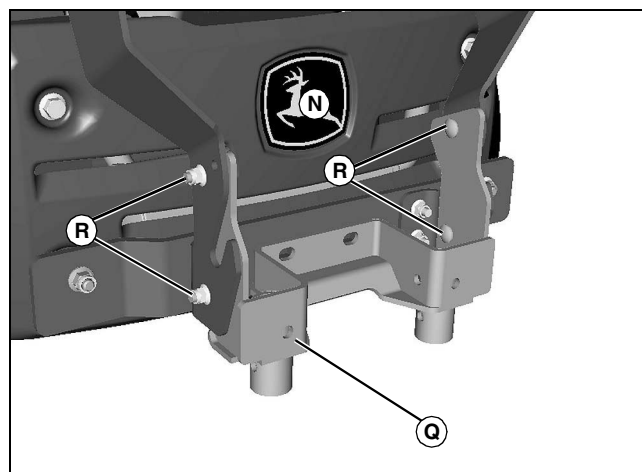


7. Install rear grille (F) using existing hardware.

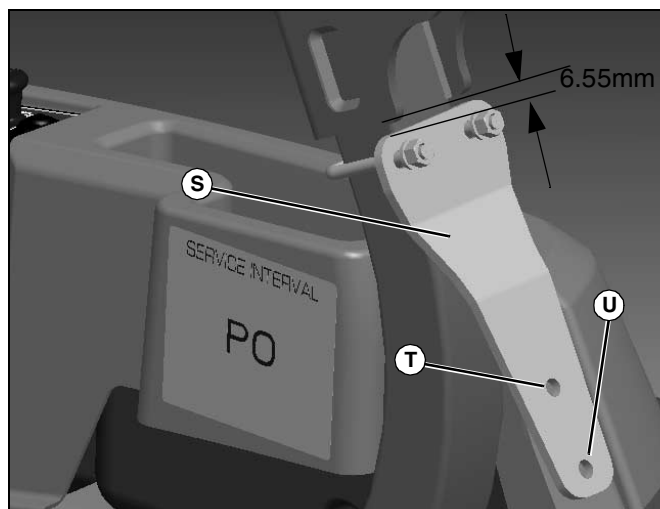
8. Install steel bumper (L) to machine using spacers (N), M12x70 bolts, and M12 locknuts (O). Tighten locknuts to 115 N•m (85 lb-ft).

NOTE: On models with an engine guard (B), be certain to install before securing top of brackets to machine.

9. Secure tops of brackets with four M10x30 flange head bolts, washers, and locknuts (P) in the mounting location for the engine guard. Tighten all bracket hardware.



10. Install support bracket (Q) to mounting brackets using four M10x30 carriage bolts and locknuts (R), leave hardware loose.

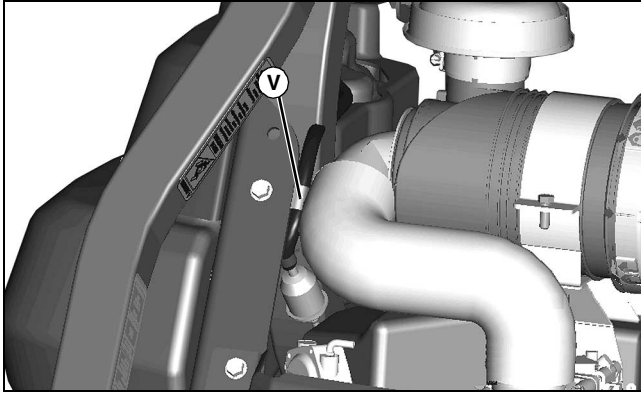


11. Drill holes (for Estate models (Z510A and Z520A) without reinforced frame members only):

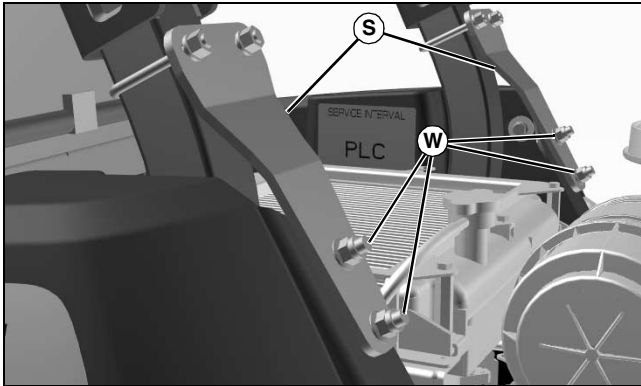
- Place reinforcement plate (S) onto each side of the ROPS 6.55 mm (1/4 in.) below bottom of ROPS hinge.
- Secure plates with U-bolts onto each side of the ROPS.
- Drill two 11 mm (7/16 in.) holes at location (T) and (U) of the reinforcement plate rear frame members.

ASSEMBLY

NOTE: On some models, there is a fuel line clamp (V) located at one of the holes needed for mounting one of the reinforcement plates. Be certain to install fuel line clamp as shown.

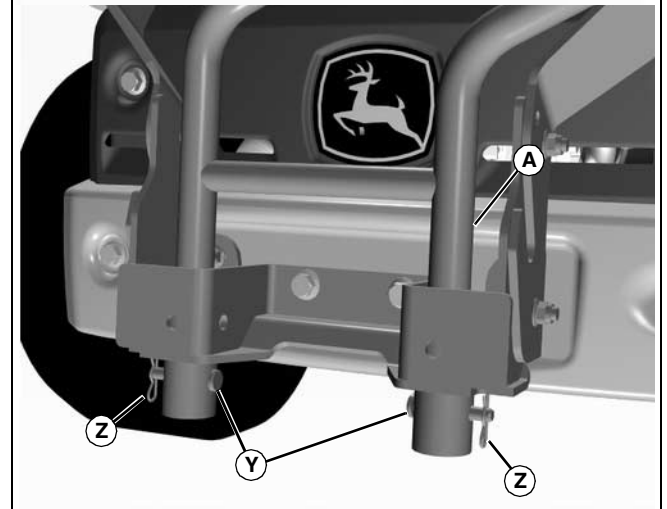
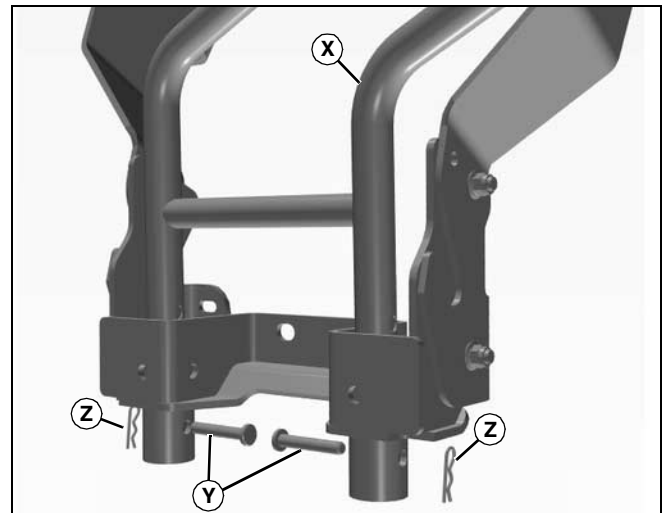


MX43619



MX25084

12. Install reinforcement plates (S) with U-bolts and supporting hardware (W).



MX25086

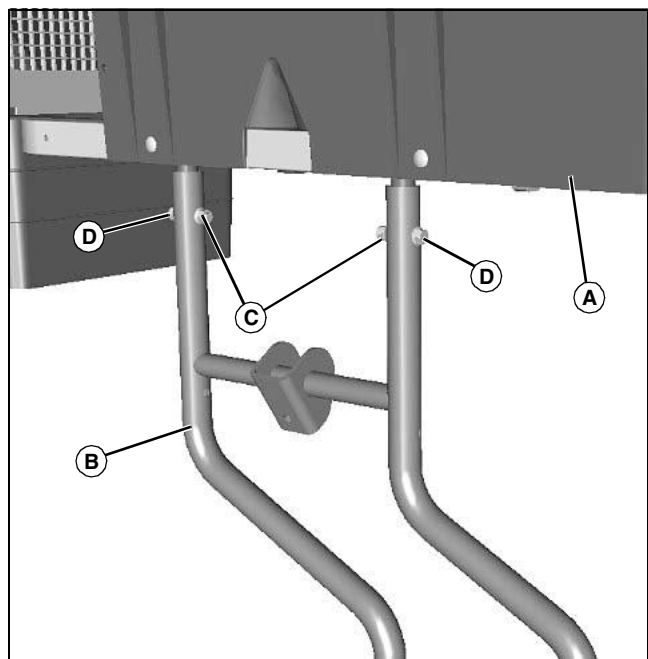
13. Slide hopper H-frame (X) into support bracket.

14. Align holes in mounting bracket with holes in H-frame, and insert drilled pins (Y) through support bracket and frame. Secure drilled pins with spring locking pins (Z).

15. Tighten all hardware.

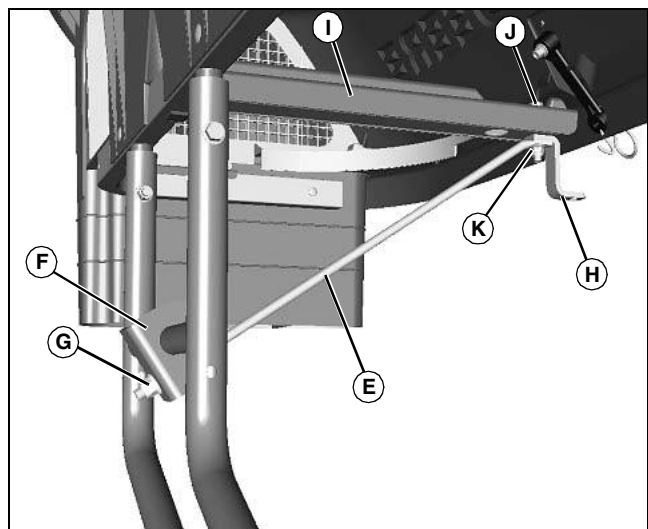
ASSEMBLY

Assemble Hopper (2 Bag)



MX47235

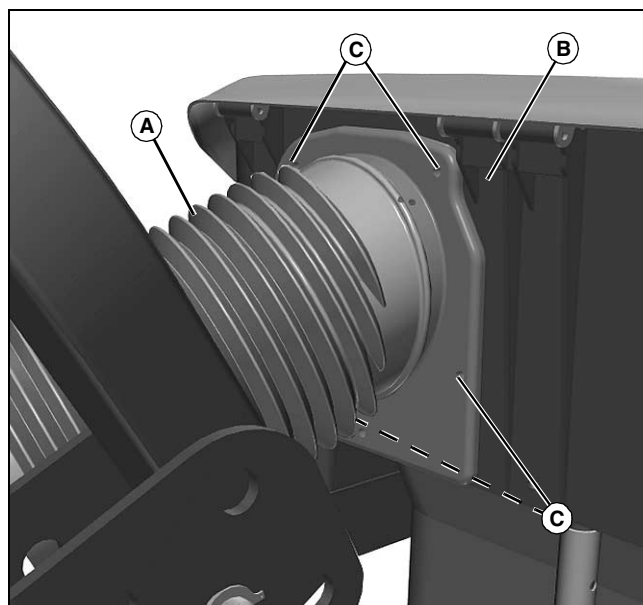
1. Slide ends of hopper assembly (A) into H-frame (B).
2. Align holes in hopper assembly with holes in H-frame, and secure assembly to H-frame with two M8 screws (C) and M8 locknuts (D).



MX47236

3. Install five M10 washers onto the threaded end of latch support rod (E), and slide threaded end of latch support rod (E) into center bracket (F) on H-frame. Secure with M10 locknut (G).
4. Align latch support rod and latch bracket (H) with hole in center frame bag support (I). Secure with screw (J) and locknut (K).

Assemble Upper Chute (2 Bag)

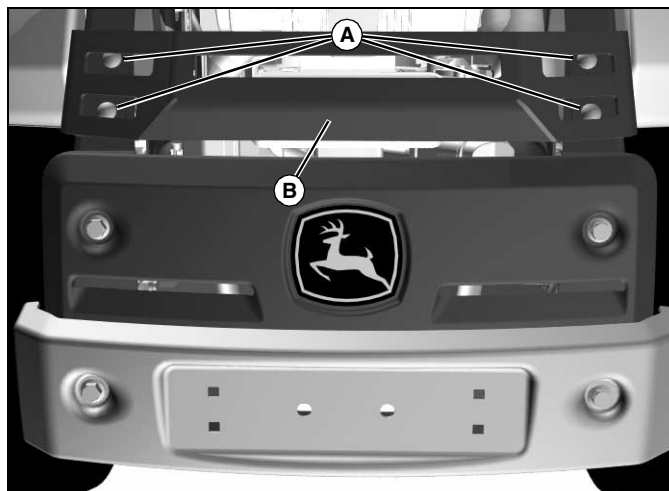


MX43145

1. Install upper chute assembly (A) and fasten to hopper (B) with four M6 hex head bolts and locknuts (C). Tighten all hardware.

Assemble Frame (3 Bag)

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



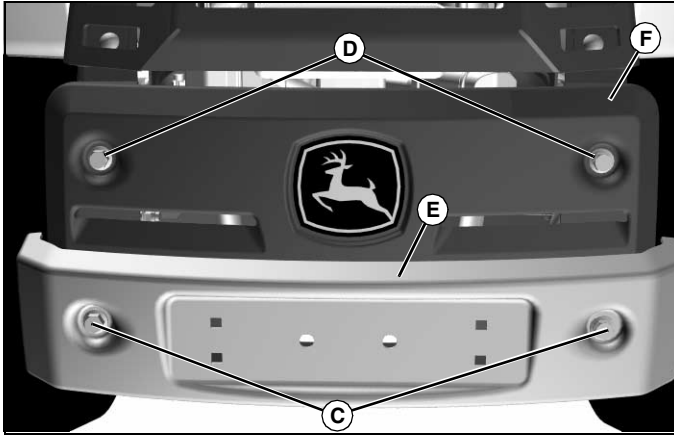
MX25070

2. If model is equipped with an engine guard, remove four carriage bolts, washers, and locknuts (A), and remove engine guard (B).

ASSEMBLY



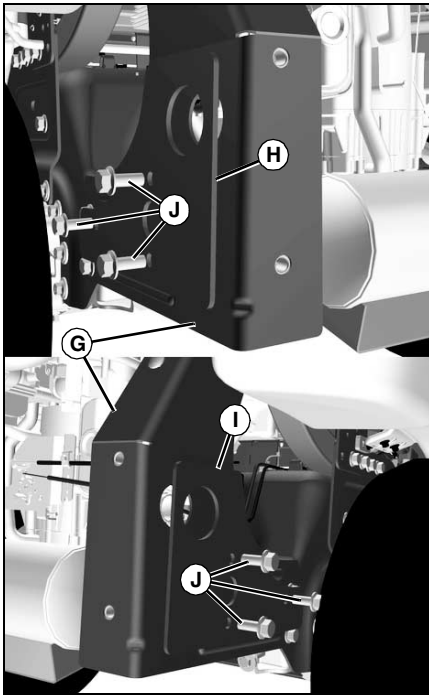
CAUTION: Avoid injury! Bumper weighs approximately 90 lbs. John Deere recommends that two people be used when removing bumper from machine.



MX25070

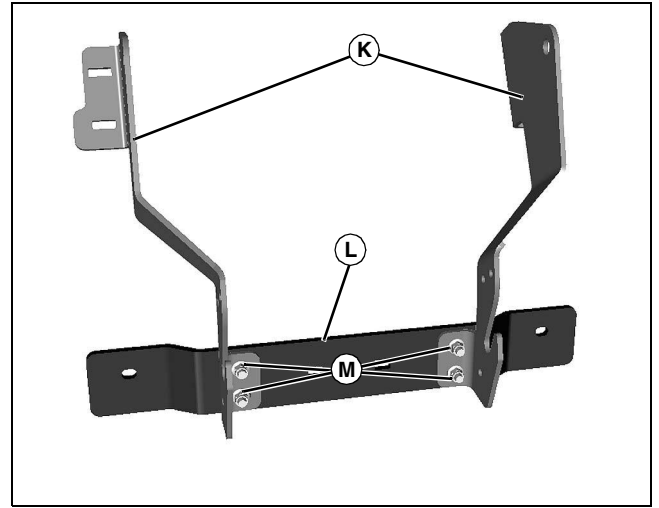
3. Remove two M12 nuts (C) and two M12x30 flange head bolts (D). Remove bumper (E) and rear grille (F).

NOTE: Refer to *Verify Frame Member Reinforcement in Preparing Vehicle* section to determine if the following two steps are necessary.



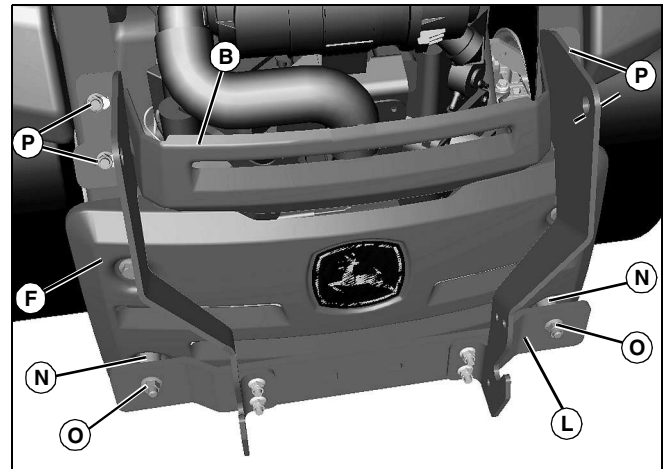
MX25074

4. Remove three M12x30 flange head bolts on each side holding the rear frame members (G). Remove frame members and replace with reinforced frame members provided. Tighten frame flange head bolts to 115-122 N•m (85-90 lb-ft).
5. Install left plate (H) and right plate (I) with three M12x30 flange head bolts, washers, and locknuts (J) on each side. Do not tighten.



MX47243

6. Install two side brackets (K) to the steel bumper (L) with four M10 flange head bolts (M) and locknuts. Leave slightly loose until tops of brackets are secure in place.

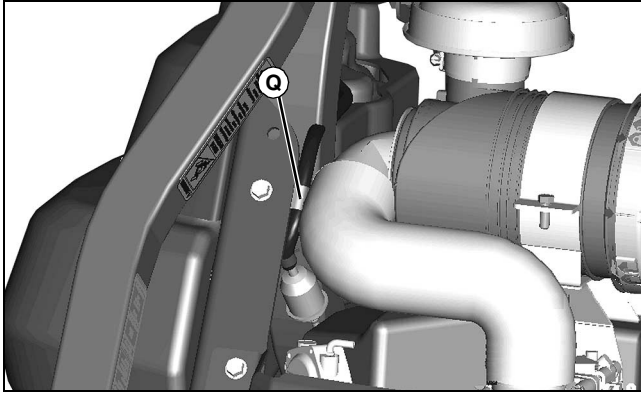


MX47244

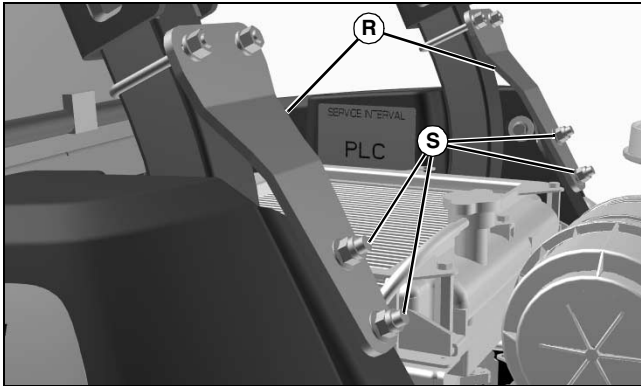
7. Install rear grille (F) using existing hardware.
8. Install steel bumper (L) to machine using spacers (N), M12x70 bolts, and M12 locknuts (O). Tighten locknuts to 115 N•m (85 lb-ft).
- NOTE:** On models with an engine guard (B), be certain to install before securing top of brackets to machine.
9. Secure tops of brackets with four M10x30 flange head bolts, washers, and locknuts (P) in the mounting location for the engine guard. Tighten all bracket hardware.

ASSEMBLY

NOTE: On some models, there is a fuel line clamp (Q) located at one of the holes needed for mounting one of the reinforcement plates. Be certain to install fuel line clamp as shown.



MX43619



MX25084

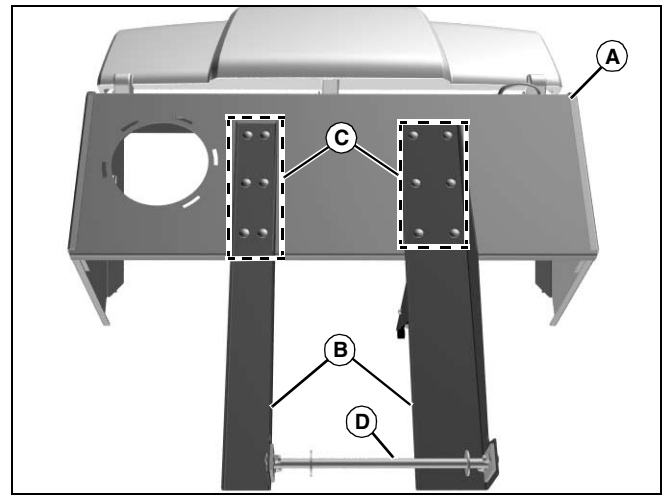
10. Install reinforcement plates (R) with U-bolts and supporting hardware (S).

11. Tighten all hardware.

Assemble Hopper (3 Bag)

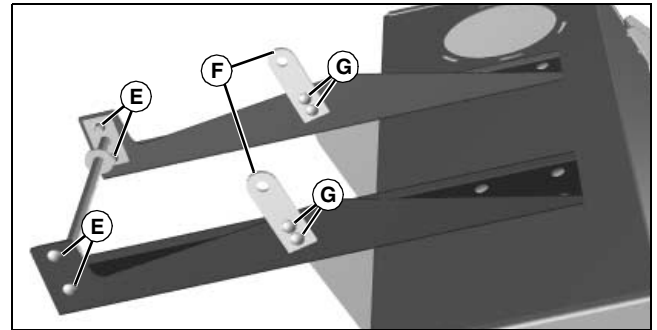
IMPORTANT: Avoid damage! Allowing the hopper to contact abrasive surfaces can cause scratching.

NOTE: Do not tighten locknuts onto carriage bolts (C). This will allow for collection bag fit adjustments later on in the assembly process.



MX24982

1. Place hopper (A) on a non-abrasive surface with the lid facing up.
2. Install supports (B) using twelve M10 carriage bolts (C) and locknuts. Leave hardware loose.
3. Position lower support bar (D) as shown.

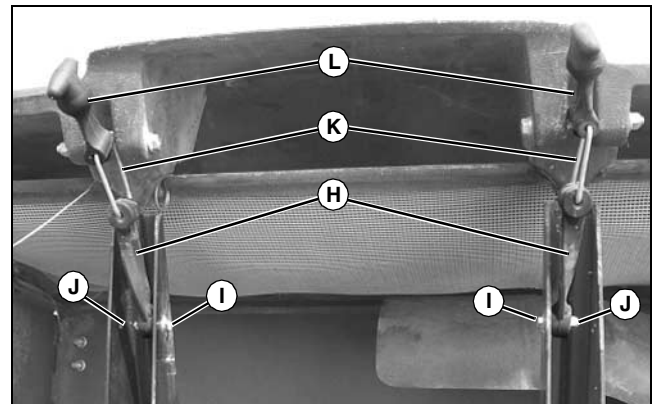


MX24983

4. Install lower support bar using four M10 carriage bolts and locknuts (E). Leave hardware loose.

NOTE: Tighten all hardware after bags have been installed and bag spacing has been adjusted for uniform fit.

5. Install latches (F) with four M10 carriage bolts and locknuts (G). Tighten all hardware.

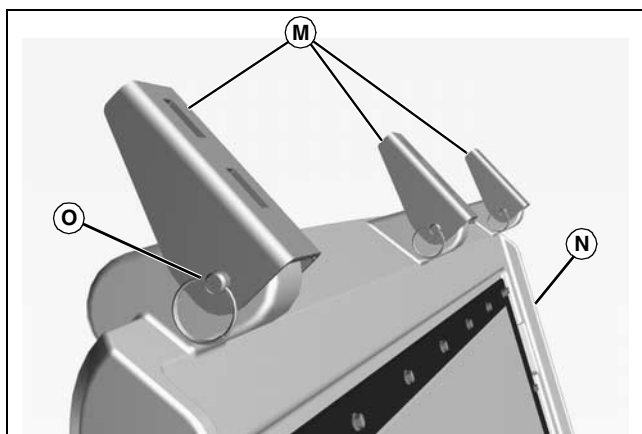


MX43534

6. Install one end of each rubber strap (H) to the hopper with an M6 capscrew (I), washer, and locknut (J). Tighten all hardware.
7. Insert a hook (K) with rubber handle (L) on the free end of each rubber

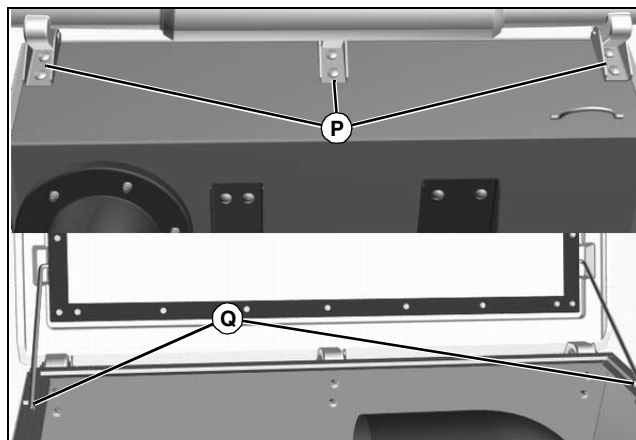
ASSEMBLY

strap (H).



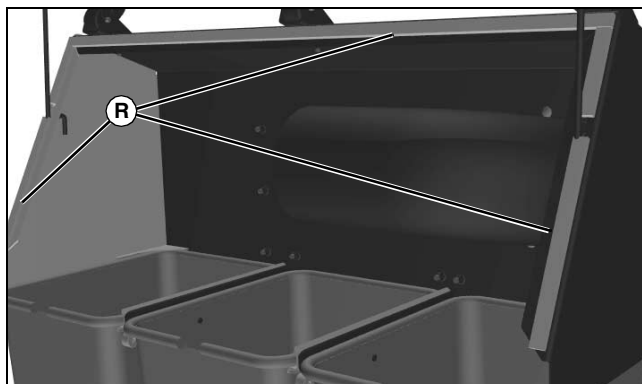
MX25126

8. Attach the three hinges (M) to hopper lid (N) with clevis pins and locking rings (O).



MX25072

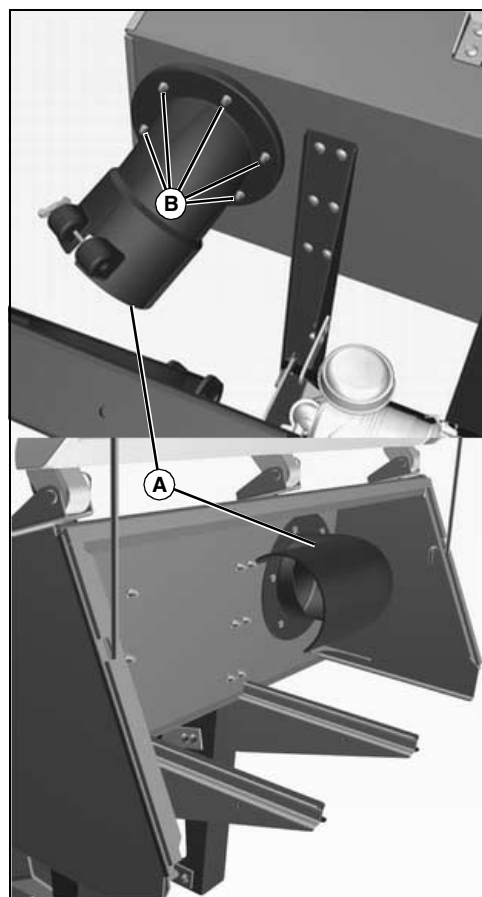
9. Install lid to hopper with six M10x25 carriage bolts (P) and locknuts. Be sure the lid support rod is in the slot (Q) on each side of hopper.



MX25062

10. Install foam seal tape (R) to hopper edges.

Assemble Upper Chute (3 Bag)

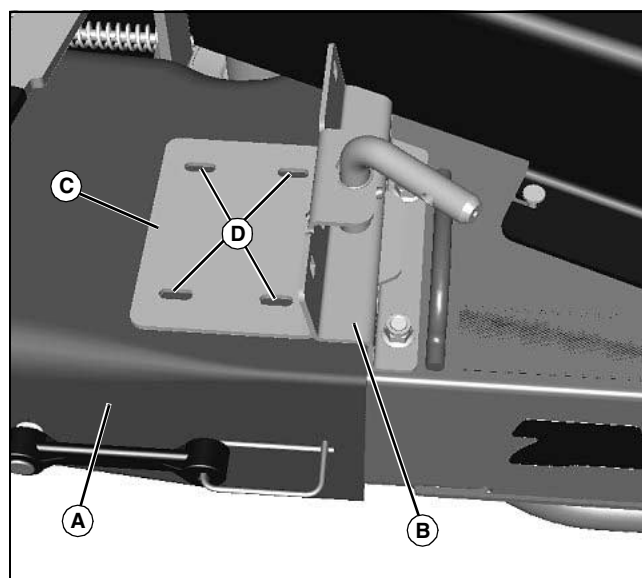


MX24987

1. Install upper chute assembly (A) using five M8x45 carriage bolts and locknuts (B). Tighten all hardware.

Assemble Lower Chute

2 Bag Bagger



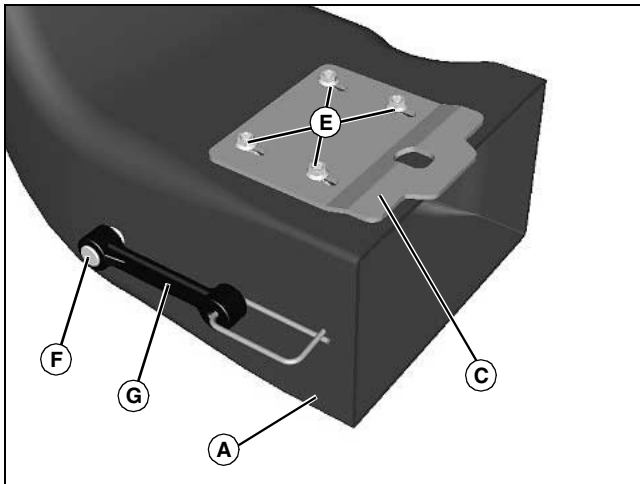
MX47238

1. Install lower chute (A) into position under bracket (B) on blower

ASSEMBLY

assembly.

2. Raise connector bracket (C) onto chute (A), and mark four holes (D) in the center of the slotted holes on connector bracket (C). Drill four 6 mm (15/64 in.) holes at marked locations.

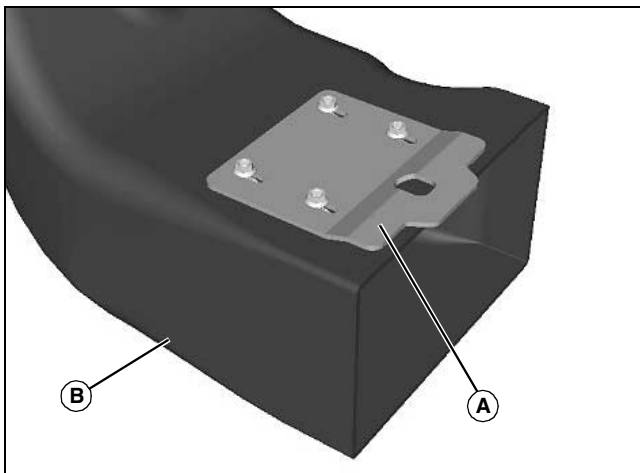


MX47234

3. Install lower chute connector bracket (C) on bottom of lower chute (A) with four M6x16 carriage bolts and locknuts (E).

4. Cut rivet (F) and remove rubber strap (G) from side of lower chute.

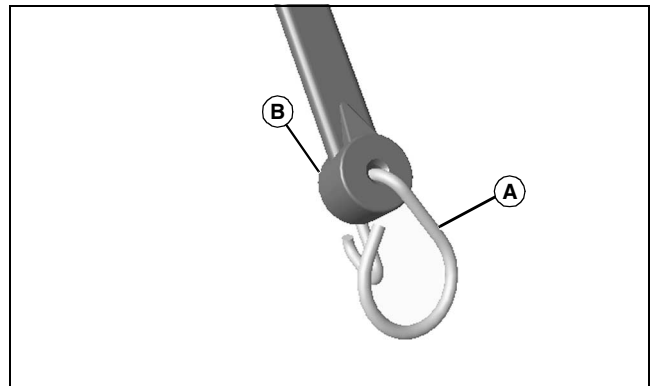
3 Bag Bagger



MX47433

1. Install lower chute connector bracket (A) on bottom of lower chute (B). Secure with M6 carriage bolts and locknuts.

Assemble Hopper Hook (2 Bag)

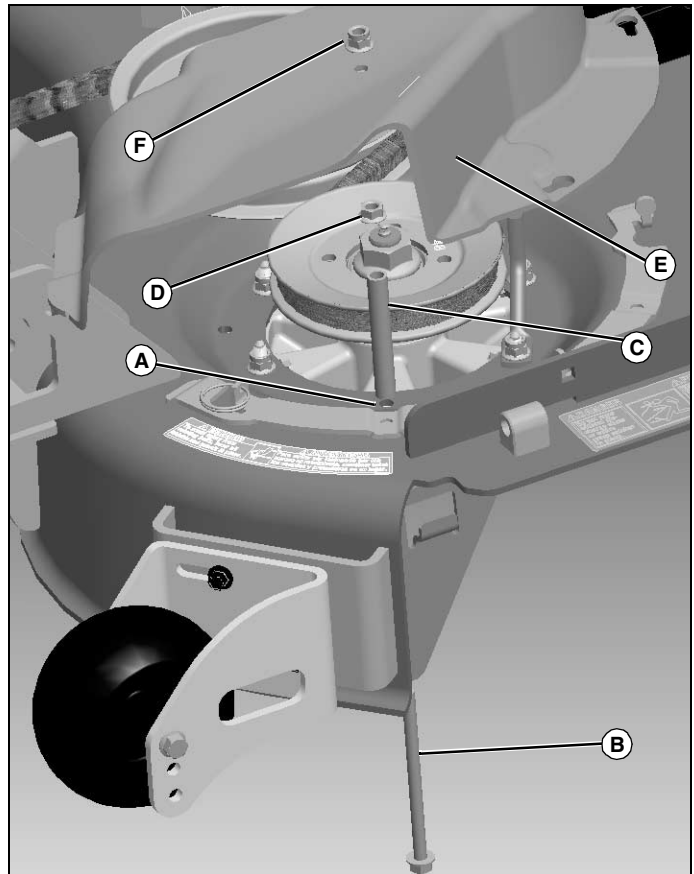


MX13161

1. Insert hopper hook (A) through hole in hopper strap (B) as shown.

Installing Deck Belt Shield

NOTE: For installation on 48 in. decks only.



MX26074.tif

1. Remove the spindle mounting bolt from location (A). Retain bolt for use if bagger is removed.
2. Insert spindle mounting bolt (B) up through spindle and deck.
3. Install spacer (C) onto spindle mounting bolt.
4. Secure spindle mounting bolt with nut (D).
5. Install belt shield (E) onto spindle mounting bolt and head pins.
6. Secure shield into place with nut (F) onto spindle mounting bolt.

INSTALLING

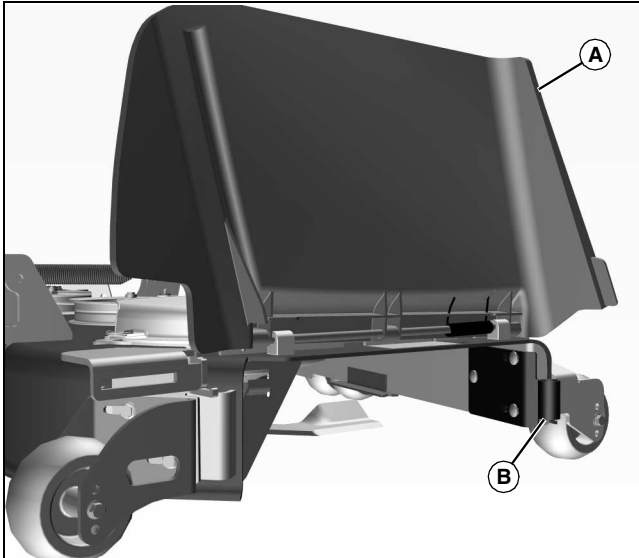
Installing

Install Blower



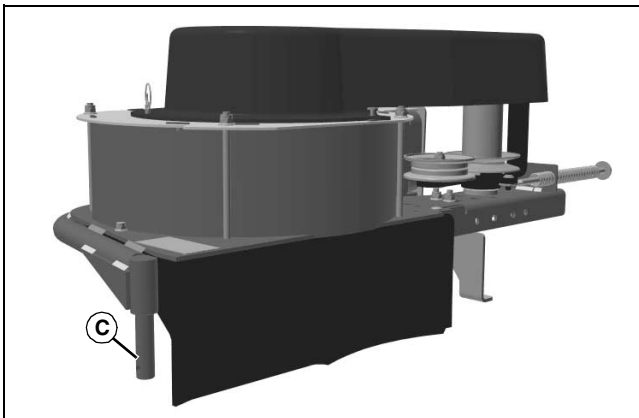
CAUTION: Avoid injury! Machine component or attachment is heavy. Use a safe lifting device or get an assistant to help lift, install or remove component or attachment.

NOTE: The blower assembly weighs approximately 32 kg (70 lb).



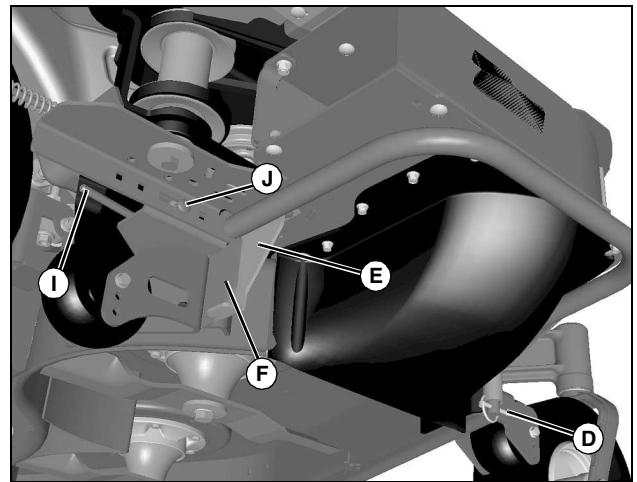
MX25129

1. Lift discharge chute (A) and locate front mounting bracket (B).

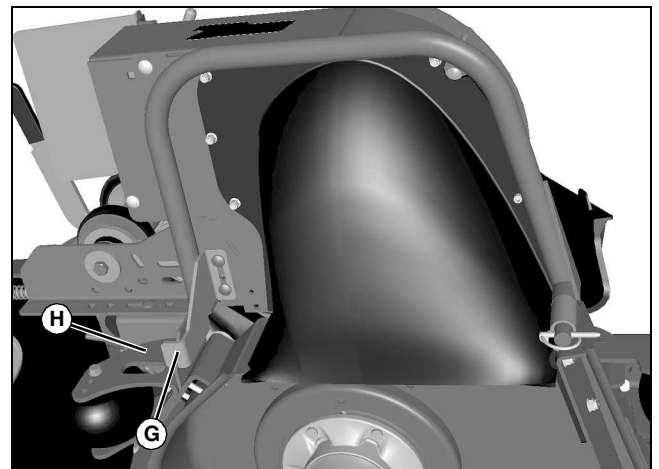


MX25078

2. Insert front pivot pin (C) of blower into front bracket (B).



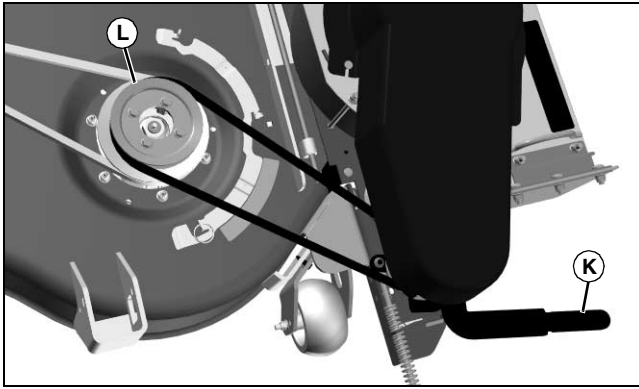
MX47239



MX47237

3. Install front lynch pin (D).
4. Rotate the blower in position so that the bottom blower plate (E) rests on top of the mounting bracket (F) at the rear of the blower. When mounting on 48 inch mower, blower plate does not rest on top of the mounting bracket.
5. Mounting bracket (G) should meet anti-scalp wheel assembly (H) or deck.
6. Secure in place with the mode change release handle (I) and M8x25 carriage bolt (J).

INSTALLING

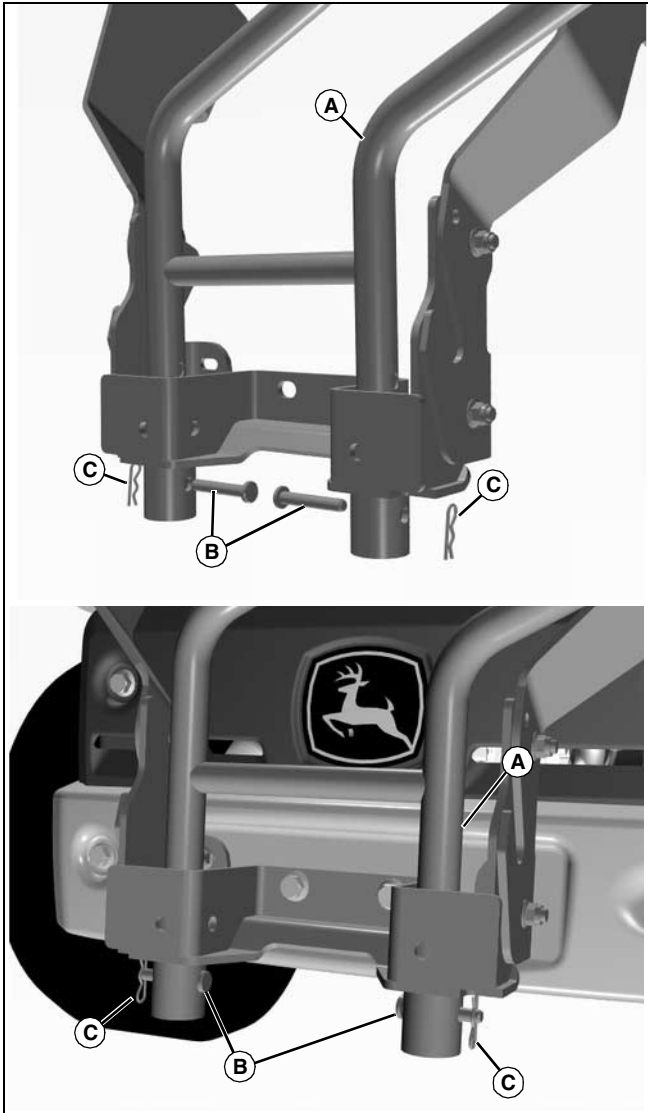


MX25069

Picture Note: Parts have been removed for clarity.

7. Use tension lever (K) to allow belt to slip over sheave (L).
8. Install correct blower belt shield for application.

Installing Hopper (2 Bag)



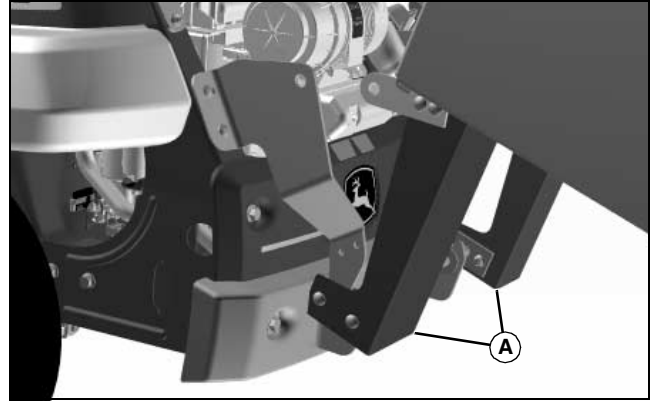
MX25086

1. Slide hopper H-frame (A) into support bracket.

2. Align holes in mounting bracket with holes in H-frame, and insert drilled pins (B) through support bracket and frame. Secure drilled pins with spring locking pins (C).

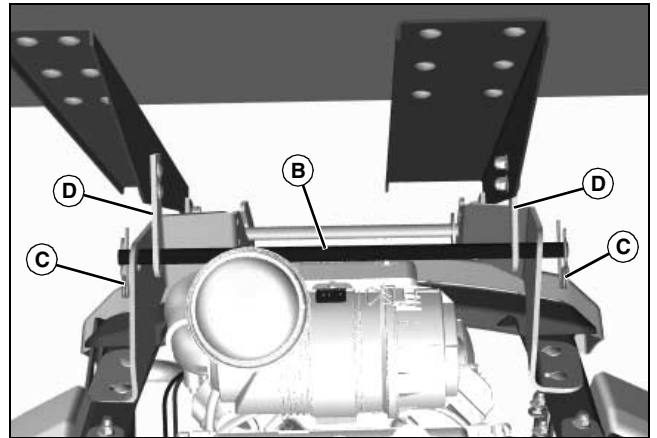
Installing Hopper (3 Bag)

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



MX24984

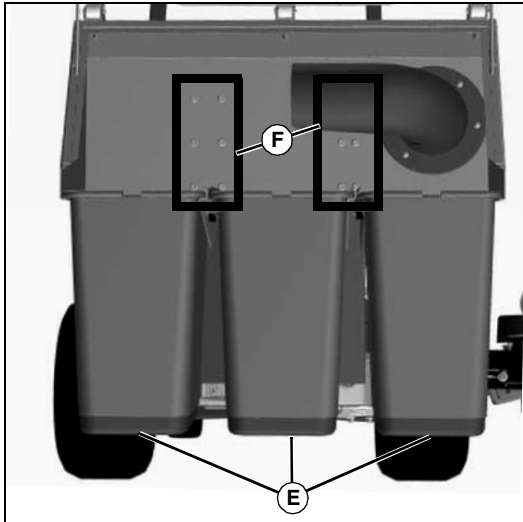
2. Position hopper assembly behind the machine. Make sure frame arms (A) are aligned with bagger frame mount at rear of machine.
3. Lift assembly and slide lower support bar onto hooks in the hopper brackets.



MX24985

4. Tilt assembly forward and insert upper support bar (B) through hopper latches and mounting brackets. Secure in place with clips (C).
5. If the hopper is being installed for the first time, the hardware for the four carriage bolts needs to be tightened on brackets (D).

INSTALLING

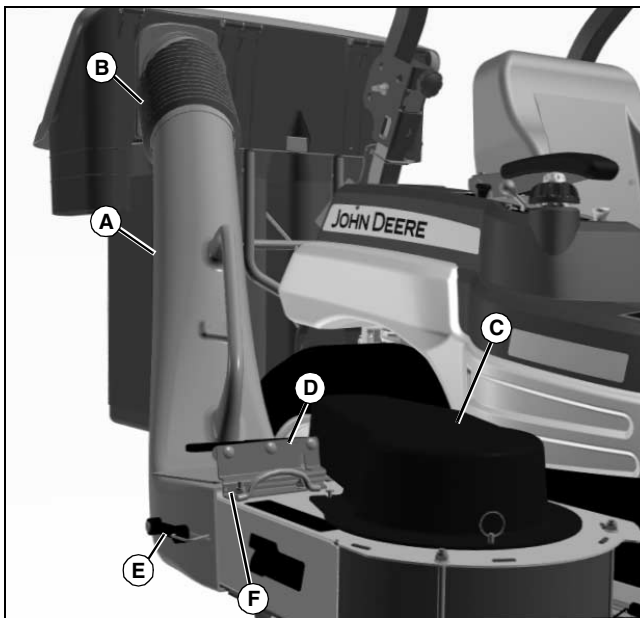


MX24988

6. Install grass bags (E) with mesh facing rearward away from machine. Adjust bag fit by shifting hopper left or right or by spreading or drawing together the two vertical supports. Once uniform bag fit is achieved, tighten all twelve M10 locknuts (F).

7. Lower hopper door and secure with hooks on the bungee latches.

Installing Chute (2 Bag)



MX25088

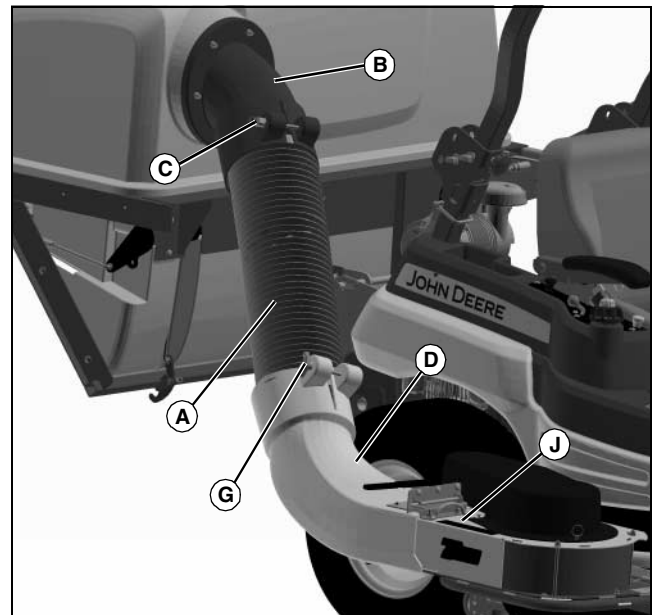
1. Insert chute (A) into flexible hose assembly (B).
2. Attach chute assembly (A) to blower (C) by lifting flap attached to bracket (D) and sliding chute over opening to blower.
3. Attach bungee strap (E) to hook point (F).

Cutting Hose to Length

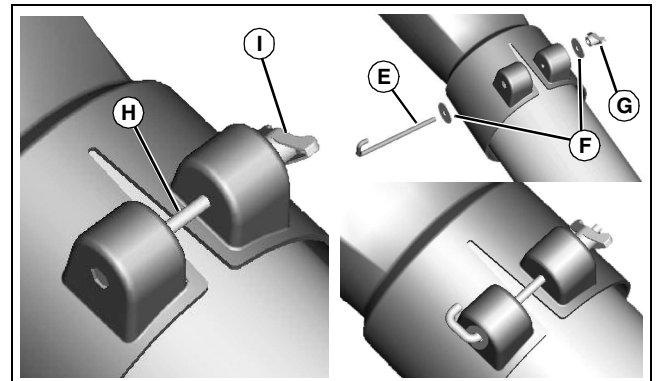
1. Cut hose to the length listed below for your mower deck size. Hose may already be correct length for some machine configurations, see chart to verify hose length. Edges of the hose may be sharp after cutting, file to smooth the edges if needed.

Deck Size	3-Bag MCS
48"	865mm (34 in.)
48" MOD	865mm (34 in.)
54"	865mm (34 in.)
54" MOD	900mm (35-1/2 in.)
60"	900mm (35-1/2 in.)
60" MOD	950mm (37-1/2")
72"	1030mm (40-1/2")

Installing Chute (3 Bag)



MX26541



MX27539, MX27540

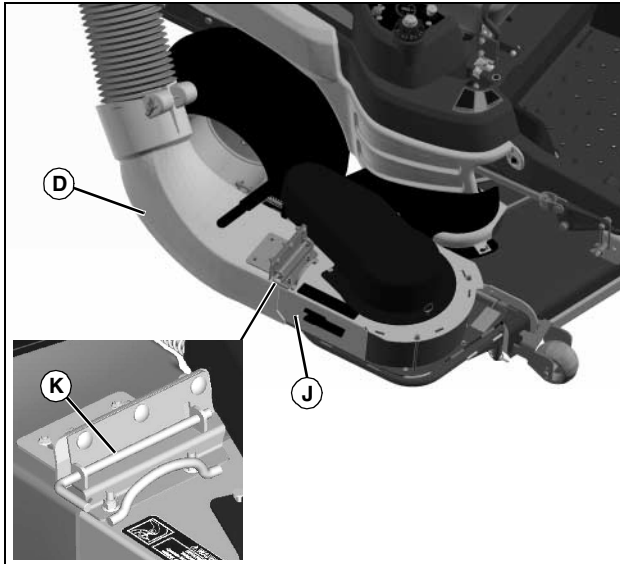
Picture Note: Hex head bolt used in previous production models, J-bolt used in current production models.

1. Connect hose (A) to upper chute assembly (B).
2. Secure hose to upper chute with bolt and knob (C).
3. Connect lower end of hose (A) to lower chute (D).
4. Secure hose to lower chute:
 - Secure hose to lower chute with J-bolt (E), washers (F) and knob (G).

INSTALLING

- Secure hose to lower chute with hex head bolt (H) and knob (I).

5. Lift and hold open exhaust flap on blower.



MX26540, MX27541

Picture Note: Exhaust flap has been removed for clarity.

6. Slide lower chute (D) completely onto blower outlet (J) and secure with duct pin (K).

IMPORTANT: Avoid damage! Do not over tighten knobs. Only tighten to secure hose assembly in place.

7. Tighten knobs on upper and lower chutes to hold hose assembly in place.

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.

NOTE:

- Ballast is not included with this kit but is required for safe operation. Refer to chart for specific requirements and see your authorized John Deere dealer for ordering.
- If installed, remove rear side weights from mower. Side weights are not compatible with the MCS.
- Weight bracket should remain on machine when operating with the MCS even if chart shows that no weights are required.
- Only Z800A with 60 and 72 in. decks: An additional suitcase weight is required on the machine if front pneumatic caster tires are installed in place of the original standard semi-pneumatic tires.

Model	Deck	Required Weights	
		2 Bag MCS	3 Bag MCS
Z510A	48 in.	1	NA
Z520A	54 in.	1	NA
Z520A	60 in.	1	NA
Z810A	48 in.	0	NA
Z810A	54 in.	0	NA
Z820A	48 in.	0	5
Z820A	48 in. Mulch on Demand	0	5
Z820A	54 in.	0	4
Z820A	60 in.	NA	4
Z830A	54 in.	NA	4
Z830A	54 in. Mulch on Demand	NA	3
Z830A	60 in.	NA	4
Z840A	60 in.	NA	4
Z850A	60 in.	NA	4
Z850A	60 in. Mulch on Demand	NA	4
Z850A	72 in.	NA	2
Z860A	60 in.	NA	4
Z860A	60 in. Mulch on Demand	NA	3
Z860A	72 in.	NA	2

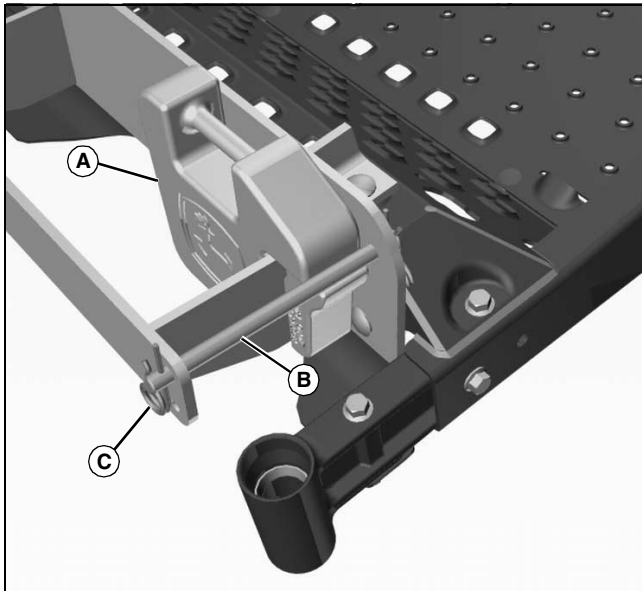
NOTE: If your model is not listed above, look in your power unit manual for information regarding a needed ballast.

Install the proper front ballast to help counterbalance the total weight of the bagger. Remove ballast when the bagger is removed. This will ensure proper operation of the machine when not bagging.

REMOVING AND STORING

Installing Weight

NOTE: See Ballast Chart for the proper weight requirements for your machine.



1. Install suitcase weight(s) (A) onto bracket.

NOTE: If the number of required weights is an odd number, add the odd number weight to the left side of machine (or opposite side of blower) to offset the weight of the blower assembly.

2. Slide the rod (B) over weight(s) to lock down.
3. Install locking pins (C) on rod.

Adjusting Deck Lift Spring Tension

NOTE: Deck lift springs are set at factory specs. When installing the MCS, the springs should be adjusted to the following specifications. When the MCS is removed, the springs should be set back to the original factory settings. Refer to machine operator's manual for the correct factory settings without the MCS installed.

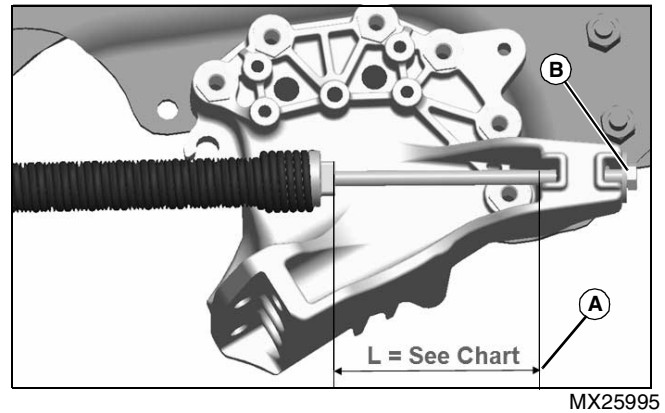
Check Spring Tension

1. Park machine on a hard, level surface.
2. Stop engine and lock park brake.
3. Raise the mower deck to the transport position.

IMPORTANT: Avoid damage! Both deck lift spring assemblies must be adjusted equally.

Do not over-tension the deck lift springs. If the springs are compressed too tightly, the mower deck will float too freely. Decrease deck lift spring tension if operating in rough terrain.

NOTE: If your lift assist does not look like the assembly below, look at your power unit operator's manual for adjustment procedure.



4. Measure spring length (A).

Deck	Recommended Setting with MCS Installed
72 Inch	0 cm (0.0 in.)
60 Inch	5.5 cm (2.1 in.)
54 Inch	6.5 cm (2.5 in.)
48 Inch	0 cm (0.0 in.)
60 Inch Mulch on Demand	2 cm (.75 in.)
54 Inch Mulch on Demand	4.5 cm (1.75 in.)
48 Inch Mulch on Demand	5.5 cm (2.1 in.)

While looking from rear of machine:

- Turn hex nut (B) clockwise to increase deck lift spring tension.
- Turn hex nut (B) counterclockwise to decrease deck lift spring tension.

Removing and Storing

Removing and Emptying Grass Bags

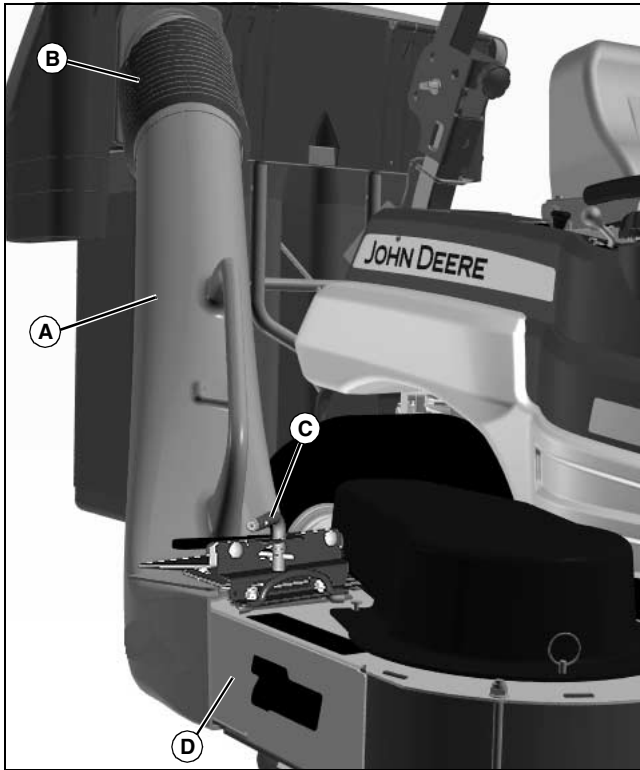


CAUTION: Avoid injury! Contents in grass bags will cause bagger to become heavy and unbalanced. Always remove and empty bags before removing bagger from machine.

1. Park the machine safely. (See Parking Safely in the SAFETY section.)
2. Remove and empty the grass bags.

REMOVING AND STORING

Removing Chute (2 Bag)



MX47242

1. Remove chute (A) from flexible hose assembly (B).
2. Pull upward on pin (C), then remove chute (A) from blower outlet (D).

Removing Rear Hopper (2 Bag)

1. Open hopper top and remove both bags.
2. Empty all debris from bags.

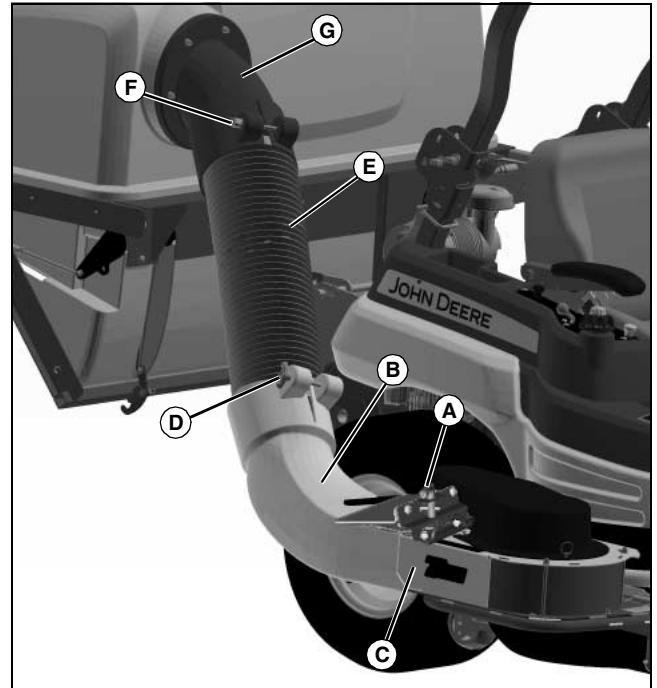
CAUTION: Avoid injury! To prevent injury from thrown objects, inspect bags frequently for wear and deterioration. Check bags frequently and replace when necessary.

3. Inspect bags frequently for wear and deterioration; replace when necessary with parts of equal quality.
4. Remove spring locking pins and drilled pins securing H-frame to mounting bracket.
5. Remove H-frame and hopper assembly by lifting ends out of holes in mounting bracket.
6. Install drilled pins and spring locking pins to H-frame for storage.

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.

7. Remove ballast.

Removing Chute (3 Bag)



MX47241

1. Pull upward on pin (A), then remove lower chute (B) from blower outlet (C).
2. Remove knob and bolt (D), then remove hose (E) from lower chute (B).
3. Remove knob and bolt (F), then remove hose (E) from upper chute (G).

Removing Hopper (3 Bag)

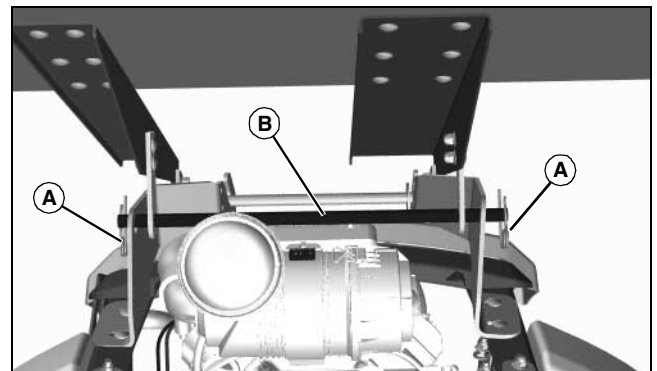
CAUTION: Avoid injury! Attachment can lower rapidly. Attachment is heavy and can crush.

Keep bystanders, especially children, away when lowering attachment.

Support raised attachment with a mechanical stop or lower completely to the ground before servicing.

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

1. Make sure hopper lid is latched.

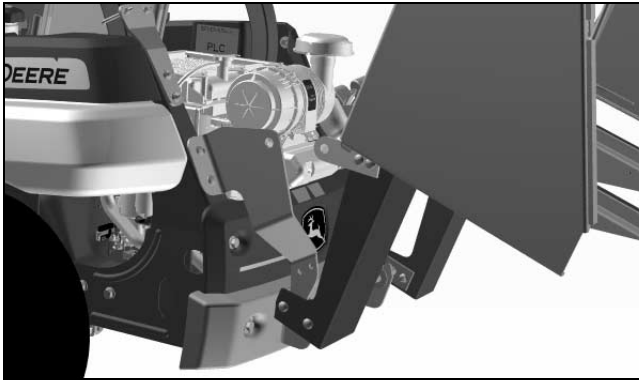


MX24985

2. Remove clips (A).

REMOVING AND STORING

3. Hold hopper assembly securely.
4. Remove upper support bar (B).



MX24984

5. Pivot hopper assembly down to the ground.
6. Lift hopper assembly up and slide lower support bar from hooks on lower hopper bracket.
7. Pull hopper assembly away from machine.



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.

8. Remove ballast.

Removing Blower

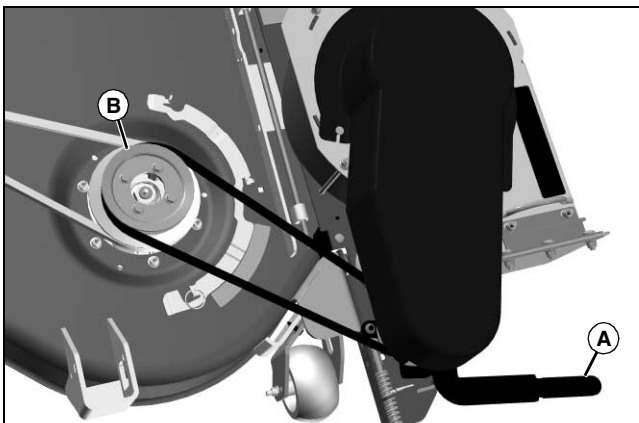
1. Remove MCS deck belt shield.



CAUTION: Avoid injury! Machine component or attachment is heavy. Use a safe lifting device or get an assistant to help lift, install or remove component or attachment.

NOTE: The blower assembly weighs approximately 32 kg (70 lb).

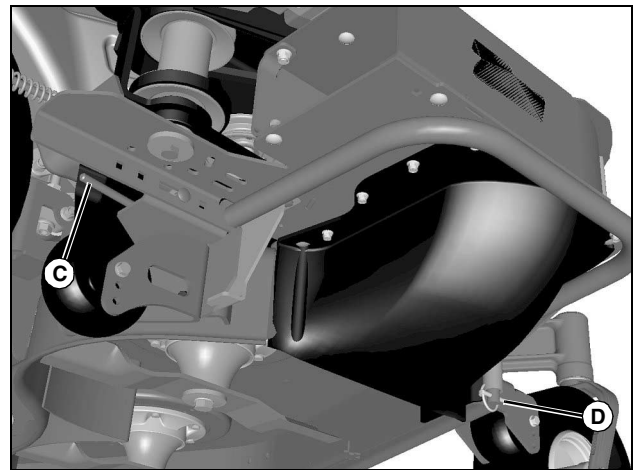
It is not necessary to remove the front mounting bracket from the mower deck when removing the blower.



MX25069

Picture Note: Parts have been removed for clarity.

2. Use tension lever (A) to remove tension on belt. Remove belt from sheave (B).



MX47239

3. Loosen and remove mode change release handle (C) and supporting hardware.

4. Remove front lock pin (D).

NOTE: Discharge chute is spring loaded and will close automatically when blower is removed.

5. Swing rear end of blower out and lift pivot pin from bracket.
6. Install deck belt shield.
7. Adjust deck lift spring tension back to factory setting specification. Refer to the power unit operator's manual for recommended factory settings.

Removing 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.

Remove any added ballast from machine.

Storing Attachment

NOTE: Some of the following steps may not apply to your attachment.

1. Remove any grass clippings from MCS or bagger attachment.
2. Remove attachment from machine.
3. Clean attachment and driveline, if equipped, with water pressure from a hose.
4. Remove any shields if needed to clean out all debris.
5. Repair or replace worn, bent, or damaged parts. Tighten loose hardware.
6. Apply paint to painted surfaces where needed to prevent rust.
7. Apply thin coat of grease to blades or tines to prevent rust.
8. Lubricate any pivot points with engine oil to prevent rust.
9. Lubricate any grease points.

OPERATING

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

10. If storing attachment outdoors, block up attachment if possible and place a waterproof cover over it.

Operating

Using The Blower

NOTE: If blower is not picking up grass clippings adequately, reduce machine ground speed. Generally, ground speed should be slower when using the MCS or bagger.

Starting Blower

Whenever the PTO is engaged to start the mower deck, the blower will automatically start.

Stopping Blower

Whenever the machine PTO is disengaged to stop the mower deck, the blower will automatically stop.

Unplugging Mower, Bagger, or 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.

Checking For Plugging While Driving

If grass builds up in front of mower discharge chute, check for plugged chute or problems with blower assembly (if equipped).

If there is a trail of clippings behind mower or clippings blow to the side, check for plugged chute, full collector bags, or problems with blower assembly.

Removing Debris From Inspection Points:



CAUTION: Avoid injury! Do not use hands or feet to clear plugged mower deck or blower assembly. Stored energy can cause blades to rotate.

1. Park machine safely. Wait for all moving parts to stop before getting off to inspect machine.
2. Open hopper cover. Check chute outlet.
3. Remove chute from mower deck or blower assembly. Check chute inlet.
4. Check under mower deck for debris.

Using Grass Bags



CAUTION: Avoid injury! Rotating blades can throw objects and debris. Stop engine before removing or installing discharge chute or grass catcher, or approved mulch plug or guard.

Installing and Removing Grass Bags

1. Unlatch and raise hopper top.
2. To remove, slide bags out from support frame.
3. To install, slide bags in completely on support frame so that safety labels are visible at the rear of the machine.

Filling the Bags

Check level of clippings often.

Empty bags when full to prevent plugging of chute.

Left bag normally fills first.

Right bag may not fill completely when you are cutting a thin stand of grass. Bag will fill if you slow engine to reduce air flow.

To avoid tipping, fill bags 1/2 full when operating on slopes.

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

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

Never leave grass or leaves in bags overnight or for long periods of time. Dampness from leaves or grass will cause deterioration of the bags. Also, damp leaves or 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 attachment with full or partially filled bags in a garage or other enclosure.

Transporting

If the blower and rear bagger will be left on the machine during transport, follow these guidelines when transporting the unit:

- If possible, empty the cloth bags and remove them from the hopper. Full bags add extra weight which can overstress the hopper frame on rough roads. At road travel speeds, wind can cause premature wear of the cloth bags.
- Make sure the hopper lid is latched securely to the hopper frame.
- If unit will be transported over long distances or at high speeds, remove the rear bagger and chute before transport.

Service Intervals

Service Intervals

Daily - As Needed

- Clean hopper exhaust screen.
- Clean hose adapter and hose.

Every 50 Hours

- Check belt tensions.
- Check idler bearings.
- Inspect housing for wear.
- Grease handle pivot bushing.
- Grease control shaft bushings.

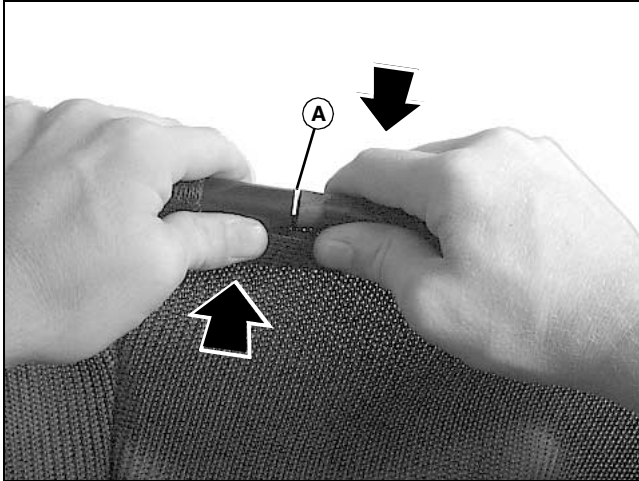
SERVICE

- Check bag and hose for wear and deterioration. Replace if necessary.

Service

Replacing Grass Bags

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Remove bags from hopper.



M96675

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.

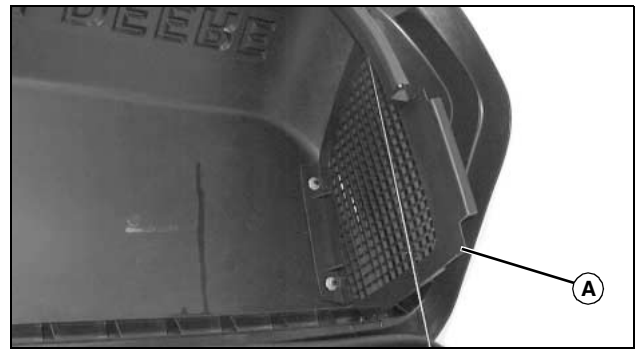


MX8430

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.

Cleaning Hopper Exhaust Screen

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Unlatch hopper top.



MX12488

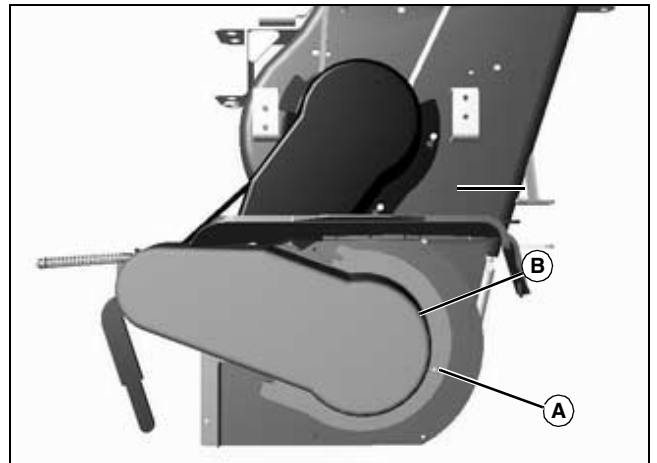
Picture Note: 8 Bushel hopper shown.

3. Clean screen (A) with a soft bristled brush or water.
4. Lower hopper top and secure latch.

Removing Drive Belts

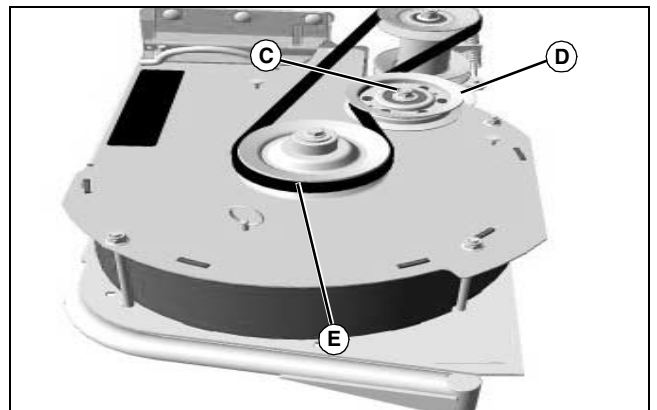


CAUTION: Avoid injury! Rotating parts can catch fingers, loose clothing, or long hair. Wait for engine and all moving parts to stop before leaving operator's station to adjust or service machine.



MX22814

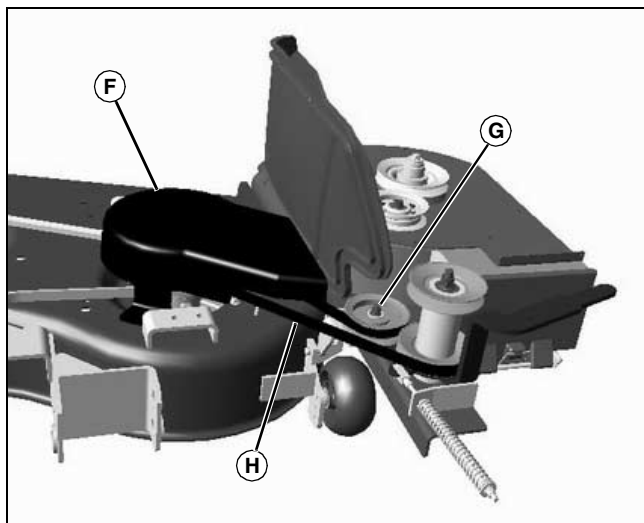
1. Remove lock ring (A) and then the secondary belt shield (B).



MX22735

2. Loosen nut (C), slide pulley (D) aside and remove secondary drive belt (E).

SERVICE



MX22817

Picture Note: Parts have been removed for a clear illustration.

3. Remove primary belt shield (F).

4. Loosen nut (G) on tension pulley but do not remove.

NOTE: The use of the tension lever will be required to assist the removal of the belt.

5. Remove primary belt (H).

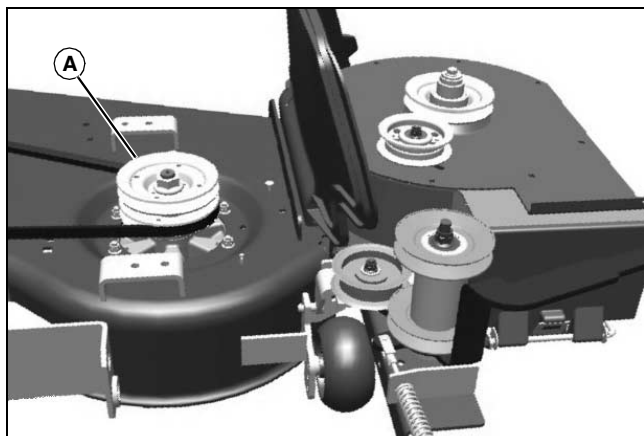
6. Remove all grass accumulation around belt, idler and sheaves.

Installing Drive Belts



CAUTION: Avoid injury! Rotating parts can catch fingers, loose clothing, or long hair. Wait for engine and all moving parts to stop before leaving operator's station to adjust or service machine.

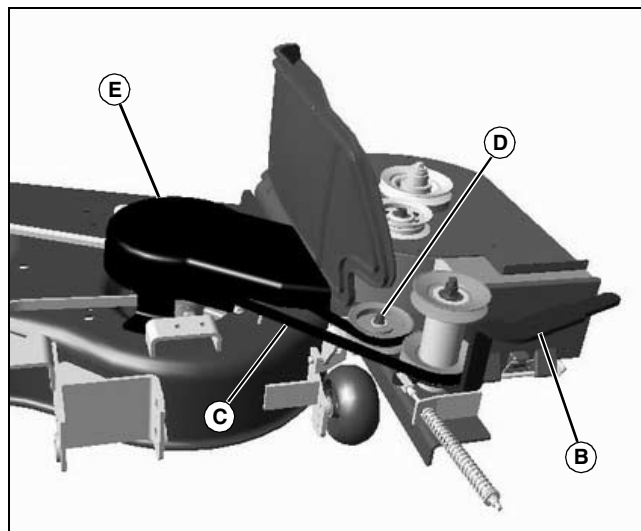
NOTE: Use the correct size sheave for your application. Sheaves should be included with the kit.



MX22819

Picture Note: Parts have been removed for a clear illustration.

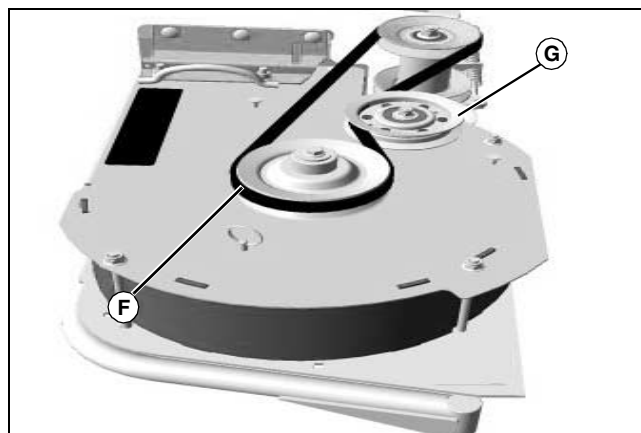
1. Install double sheave (A).



MX22817

2. Using the tension lever (B), install the primary drive belt (C) and tighten nut on tension pulley (D). Check and adjust belt tension. (See Adjusting Primary Belt Tension in SERVICE section.)

3. Install primary belt shield (E).



MX22735

4. Install secondary belt (F) and adjust belt tensioner (G). (See Adjust Secondary Belt Tension in SERVICE section.)

SERVICE



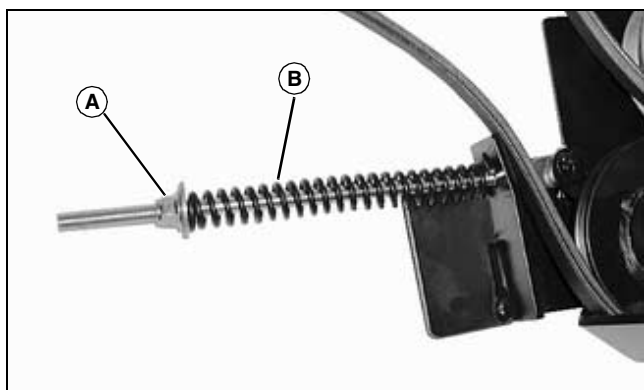
MX22731

5. Install secondary belt shield (H).

Adjust Primary Belt Tension

CAUTION: Avoid injury! Rotating parts can catch fingers, loose clothing, or long hair. Wait for engine and all moving parts to stop before leaving operator's station to adjust or service machine.

IMPORTANT: Avoid damage! Check tension of new belts after first five hours of operation, adjust if needed.



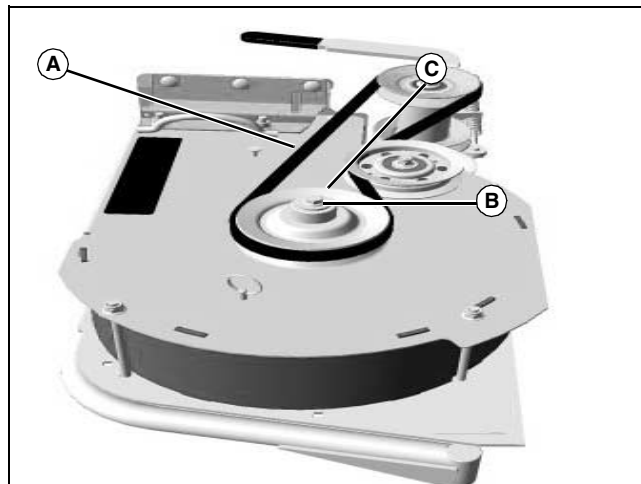
MX22741

1. With belt installed tighten nut (A) on tension rod until spring (B) length is 150 mm +/- 10 mm (5.905 in. +/- 0.394 in.).

Adjust Secondary Belt Tension

CAUTION: Avoid injury! Rotating parts can catch fingers, loose clothing, or long hair. Wait for engine and all moving parts to stop before leaving operator's station to adjust or service machine.

IMPORTANT: Avoid damage! Check tension of new belts after first five hours of operation, adjust if needed.



MX22745

Picture Note: Belt guard not shown.

1. Remove secondary belt guard.
2. Press on belt at mid point of belt span (A). There should be 1/4 in. deflection with 3 lb of force.
3. Loosen cap screw (B) on belt tensioner (C). Adjust belt accordingly.

TROUBLESHOOTING

Troubleshooting

Using 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.

If	Check
Not All Grass Is Picked Up	Belt is slipping. Grass is too wet. Throttle speed too slow. Travel speed too fast. Grass bags are full. Hopper exhaust screen is dirty. Plugged chute or blower. Plugged or dirty mower deck. Incorrect or dull mower blades. Mower deck not leveled properly. Mower cutting height too low. Blower not properly installed on mower deck.
Grass Clippings Trail Behind Or Blow To The Side Of Mower	Belt is slipping. Plugged chute. Blower not working properly. Grass bags are full. Blower not properly installed on mower deck.
Blower Or Chute Plugs	Belt is slipping. Grass 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.

Specifications

2 Bag Rear Bagger

2 Bag Rear Bagger Can Be Used with the Following Mower Decks
..... 48, 54 and 60 in.

Front Ballast Recommendation (See Installing Ballast)

Total Capacity 0.24 m³ (8.0 bushel)

Volume per Bag 0.12 m³ (4.0 bushel)

Weight (Bags Empty and without ballast) 395 kg (211 lb)

3 Bag Rear Bagger

3 Bag Rear Bagger Can Be Used with the Following Mower Decks
..... 54, 60 and 72 in.

Front Ballast Recommendation (See Installing Ballast)

Total Capacity 0.49 m³ (13.9 bushel)

Volume per Bag 0.08 m³ (2.4 bushel)

Weight (Bags Empty and without ballast) 143 kg (314 lb)

Specifications and design are subject to change without notice.

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:** 1-800-522-7448.
- **All Other Regions:** Your John Deere dealer.

Parts

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

Part numbers may change, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

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 the appropriate attachment, machine or equipment operator manuals.
2. Contact your John Deere dealer with unanswered questions.
3. In North America or Canada, call the John Deere Customer Contact Center.

- Call 1-800-537-8233 and provide product serial number and model number.

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