

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Material Collection System
13-Bushel Dump From Seat

OMTCU29190 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 13 Bushel Diesel Hopper is compatible with the ZTrak model 997.

PRODUCT IDENTIFICATION

Record Identification Numbers

Blower

Serial Number (040001-)

Hopper

Serial Number (020001-)

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):

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Hello dear friend!

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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

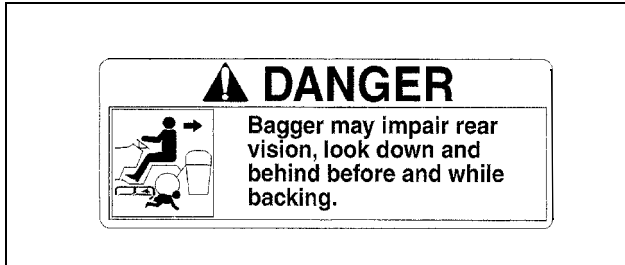


M118454

Rotating Blade -Thrown Objects

- Operate blower with entire grass catcher secured in place.

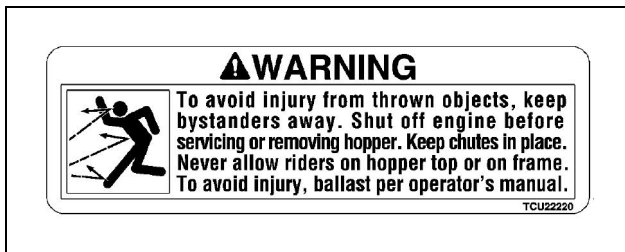
DANGER



M146238

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

WARNING



TCU22220

- To avoid injury from thrown objects, keep bystanders away. Shut off engine before servicing or removing hopper. Keep chutes in place. Never allow riders on hopper top or on frame. To avoid injury, ballast per operator's manual.

CAUTION - TCU16753



TCU16753

- To avoid injury from crushing, keep hands and fingers away from this area.

Safety

Read Safety in Machine Operator's Manual

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

Operating Safely

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

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

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

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

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

Before hopper removal or installation:

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

Before backing up machine:

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

Operate safely on slopes:

- Empty MCS when half full.
- Do not operate on steep slopes.
- Before turning, slow down.
- Avoid sudden starts and stops.

PREPARING VEHICLE

- Do not park machine with material collection system on slopes.

Hose Maintenance:

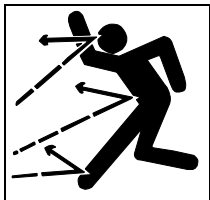
- Hose is subject to wear and deterioration.
- Check hose frequently; replace when necessary.
- Use John Deere hose or equivalent to comply with safety specifications.

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

Checking Tire Pressure

Check tire pressure of machine before installing hopper. 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.

Install Sheaves

72-Inch Deck

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

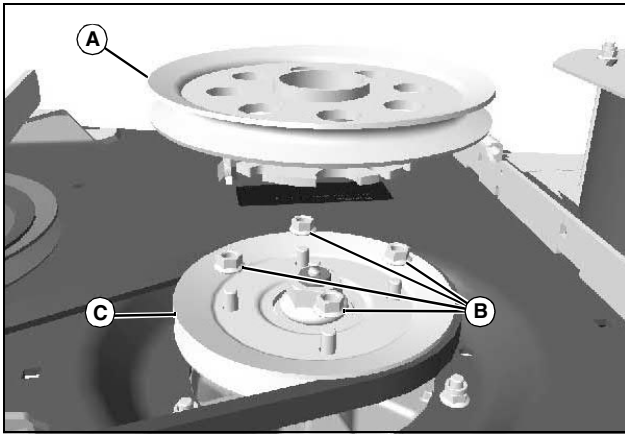
ASSEMBLY



CAUTION: Avoid injury! Help prevent bodily injury. Before removing belt shield:

- Stop engine and wait for all moving parts to stop.
- Prevent burns by allowing engine to cool.
- Disconnect spark plug wire.
- Wear protective gloves when service is performed within the mower blade area.
- Do not operate mower without belt shield.

2. Release tension from mower deck belt.



MX23177

Picture Note: 72-inch deck shown.

3. Remove four nuts (B).

4. Install MCS sheave (A) onto sheave (C) using four M6x16 hex head bolts and locknuts (B).

60-Inch Deck

1. Remove belt shield on discharge chute side of mower deck.
2. Remove four M8 nuts that secure sheave. Remove sheave.
3. Install double sheave and secure using four M8 nuts.

Installing Ballast

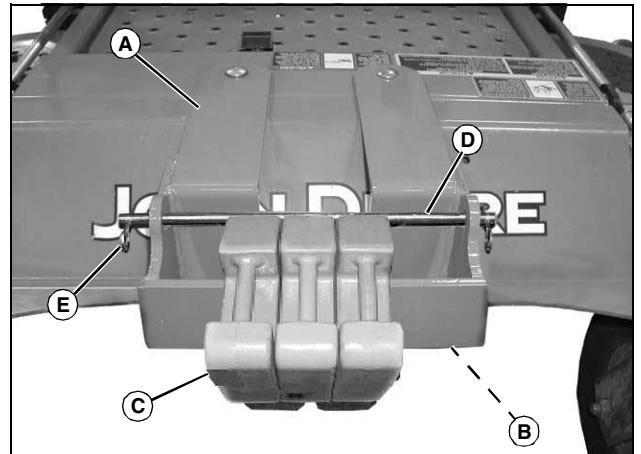


CAUTION: Avoid injury! Machine can become unstable when operating with attachment. Ballast is required when the attachment is installed.

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.



MX23335

1. Install front weight bracket (A) into lower holes using M12x30 carriage bolts and locknuts (B).

2. Use holes in bracket to locate position for upper holes. Drill 13 mm holes through machine frame.

3. Remove the foot platform and install bracket with M12x30 carriage bolts and locknuts.

4. Add John Deere 19 kg (42 lb) suitcase weights (C).

- 3 weights used with 72-inch deck.
- 4 weights used with 60-inch deck.

5. Install locking bar (D) and secure with pin clips (E).

Assembly

Diesel Hopper Parts List

Qty.	Description
1	Mount, Front Blower
9	M8x25 Carriage Bolt
28	M8 Locknut
1	Mount, Rear Blower
1	Bracket, Rear Blower Mount (72 only)
1	Belt (60)

ASSEMBLY

Qty.	Description	Qty.	Description
1	Belt (72)	7	M6 Locknut
1	Hopper Assembly	1	M8 Thread forming Screw
2	Plates (Small)	1	Clip, Retaining
2	Plates (Large)	1	Belt Cover
10	M8x70 Carriage Bolt	1	Grip Tape
1	Chute Flange	1	Blower Boot
5	M8x45 Hex Head Bolt	1	Chute Adaptor Assembly (Upper)
2	Bracket	1	Chute Adaptor Assembly (Lower)
2	Lower Side Tube Mount	2	Bearing Block
11	M12 Locknut	2	Bearing Block with Grease Fitting
4	M12x30 Flange Head Bolt	4	M8x120 Bolt
2	Clevis Pin M20x70	1	Control Rod
2	Pin, Special	4	M8x20 Flange Head Bolt
4	Cotter Pin	4	M10x35 Bolt
2	Rod Assembly	1	Hopper Frame Assembly
1	Bushing, Unplated	1	M6X20 Hex Sock Head Bolt
1	Handle	4	M12X30 Carriage Bolt
1	M12x120 Carriage Bolt	4	M10 Washer
1	M10x45 Flange Head Bolt	1	Hose
1	M10 Nut	14	M8 Washer
3	M10 Locknut	2	J-Bolt
1	Arm Bracket	2	Knob
1	Spacer, Short Stepped		
1	M10x60 Carriage Bolt		
1	Weight Bracket		
2	Pin Clips		
1	Locking Bar		
1	Spacer, Long Stepped		
1	Roller		
1	M10x100 Carriage Bolt		
1	MCS Sheave		
1	MCS Double Sheave		
4	M6x16 Bolt		
4	Nut, Special Locknut M6		
1	Pin, Chute Adapter		
6	M6x20 Carriage Bolt		

Blower Assembly Parts List

Qty.	Description
1	Blower Assembly
1	Spring Tension Assembly
1	Lynch Pin

Install Sheaves

72-Inch Deck

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

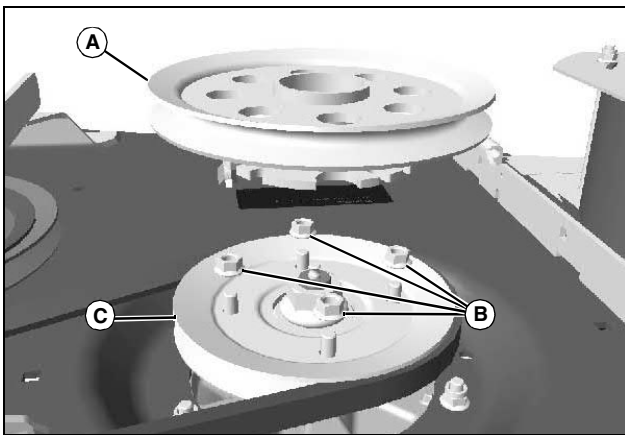
ASSEMBLY



CAUTION: Avoid injury! Help prevent bodily injury. Before removing belt shield:

- Stop engine and wait for all moving parts to stop.
- Prevent burns by allowing engine to cool.
- Disconnect spark plug wire.
- Wear protective gloves when service is performed within the mower blade area.
- Do not operate mower without belt shield.

2. Release tension from mower deck belt.



MX23177

Picture Note: 72-inch deck shown.

3. Remove four nuts (B). Raise sheave (C) to allow room to install hex head bolt.
4. Install MCS sheave (A) onto sheave (C) using four M6x16 hex head bolts and locknuts (B).

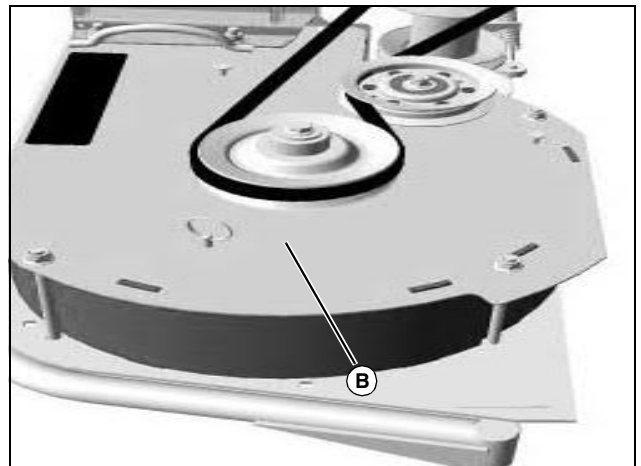
60-Inch Deck

1. Remove belt shield on discharge chute side of mower deck.
2. Remove four M8 nuts that secure sheave. Remove sheave.
3. Install one additional washer on each bolt for total of two 10M washers on each bolt under the double sheave.
4. Install double sheave and secure using four M8 nuts.

Assemble Blower

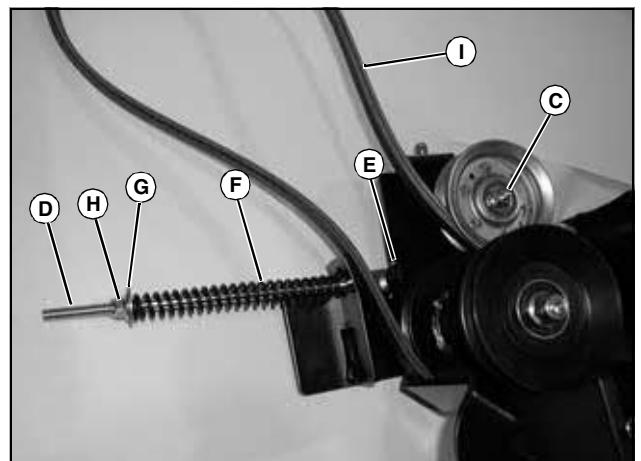


MX22738



MX22735

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



MX22776

2. Loosen bolt (C) on idler pulley.
3. Install primary tension rod (D), retaining clip (E), spring (F), washer (G), and locknut (H).



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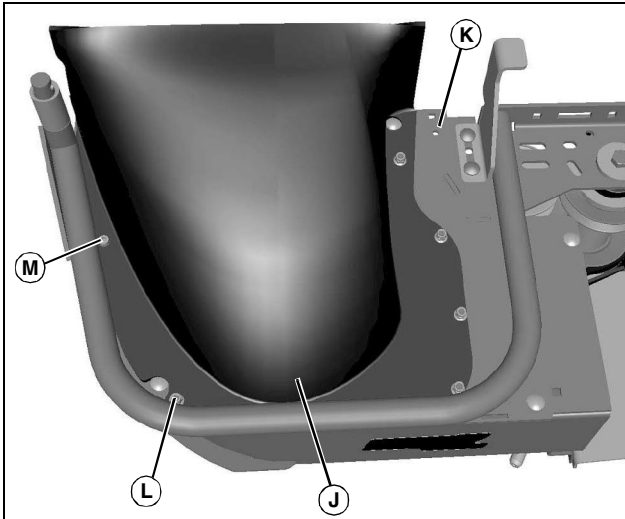
to download the complete manual.

Thank you so much for reading

ASSEMBLY

NOTE: Use shorter belt for 60 in. mower decks and longer belt for 72 in. mower decks.

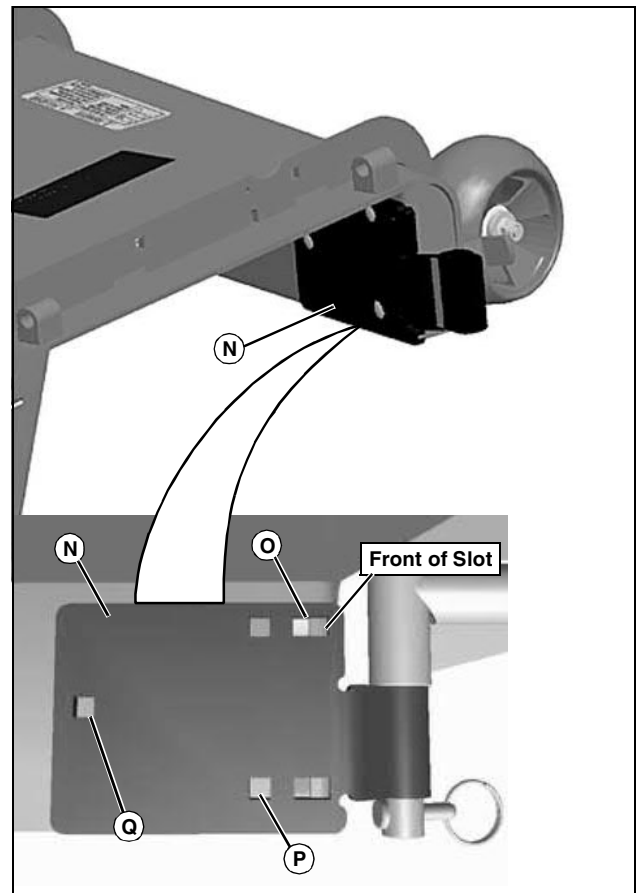
4. Install primary drive belt (I).
5. Tighten bolt on idler pulley.
6. Install, adjust, and tighten secondary drive belt (B).
7. Install belt guard (A).



MX47248

Picture Note: Hex socket head bolt (M) must be installed in this location.

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



MX23678, MX22841

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

9. Position front pivot bracket (N) flush with deck.
10. Install and tighten three M8x25 carriage bolts and locknuts in locations listed below:
 - 60 in. deck is located front of slot (O).
 - 72 in. deck is location (P).
11. Drill one 8.5 mm (0.334 in.) hole (Q) through deck. Install and tighten carriage bolt and locknut.

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