



Blower and Rear Hopper Dump From Seat, 14 Bushel



JOHN DEERE



OPERATOR'S MANUAL

Blower and Rear Hopper Dump From Seat, 14 Bushel

OMUC22772 ISSUE B1 (ENGLISH)

CALIFORNIA

Proposition 65 Warning

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

If this product contains a gasoline engine:



WARNING

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

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Turf Care

North American Edition
PRINTED IN U.S.A.



Introduction

Thank You for Purchasing a John Deere Product

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

MX00654,000020B-19-10MAY17

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.

TH84124,00000D9-19-23MAY13

Special Messages

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

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

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

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

MX00654,000020D-19-05JUN17

Service Literature

If you would like to purchase a copy of the Parts Catalog or Technical Manual for this machine, visit The John Deere Technical Information Store at:

<https://techpubs.deere.com/>

or call:

- **U.S. & Canada:** 1-800-522-7448.
- **All Other Regions:** Your John Deere dealer.

TH84124,0000199-19-05FEB20

Parts

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

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

Order Service Parts Online

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

TC00531,00000E9-19-06MAR15

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

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Product Identification

Product Compatibility

The 14 Bushel Dump From Seat (DFS) Material Collection System is compatible with all Z994R models.

OUO2005,000063B-19-21MAY18

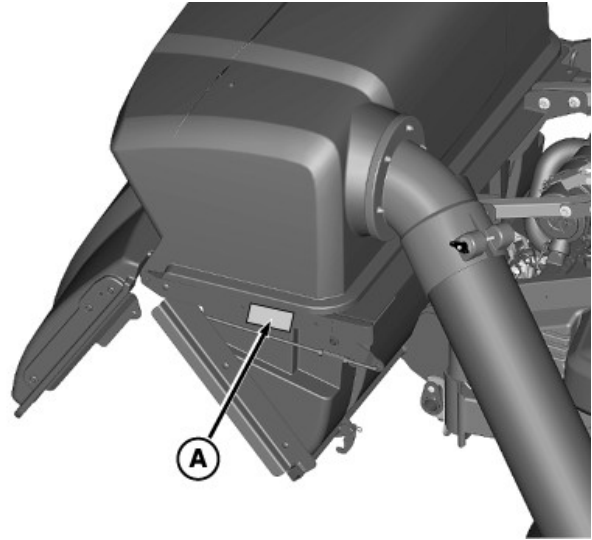
Record Identification Numbers

Blower

Serial Number (095001-)

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.



TCT015863—UN—21MAY18

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

MX00654,00002D6-19-19DEC18



TCAL45109—UN—10APR13

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

Hopper

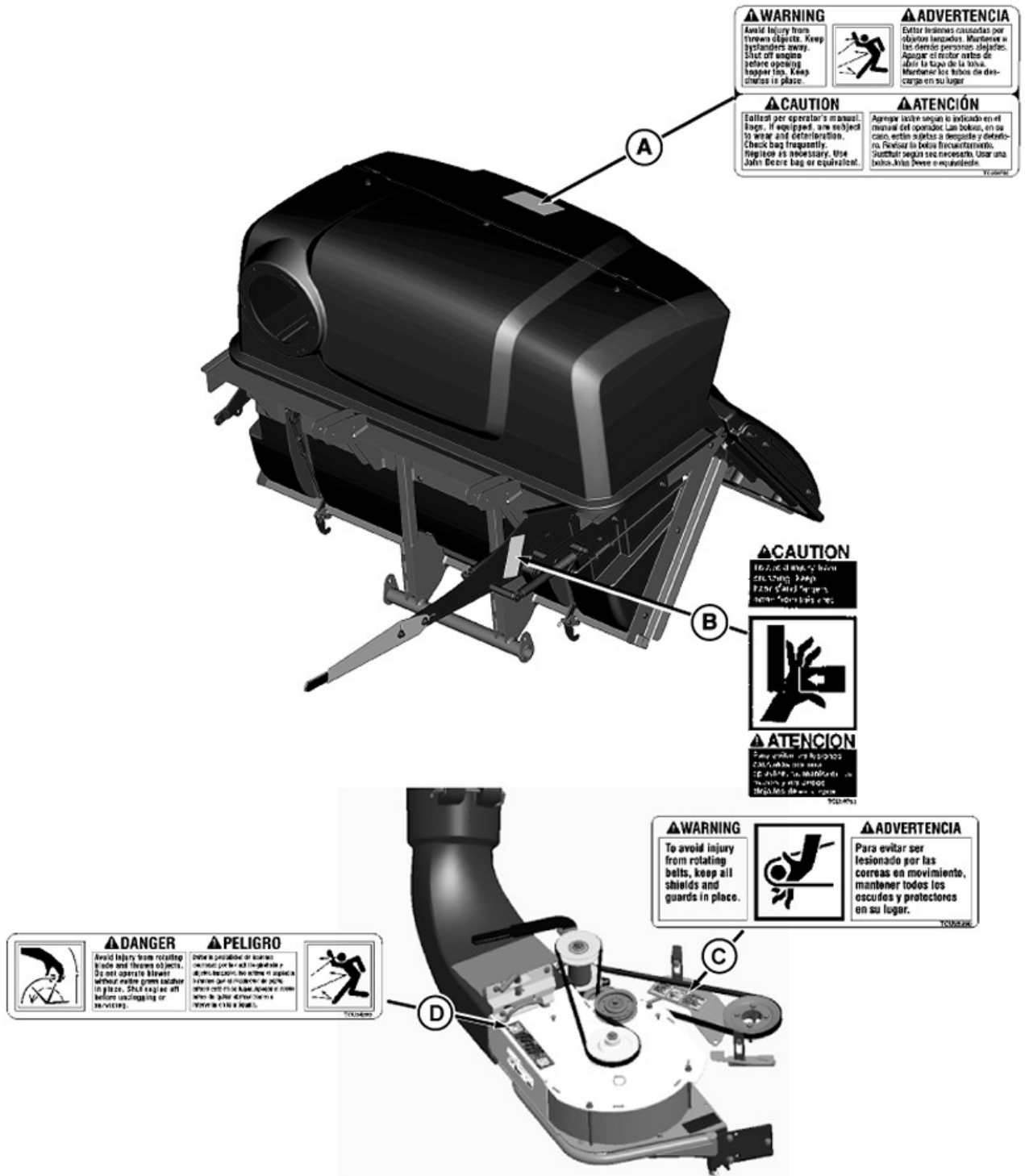
Serial Number (010001 -)

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.

Safety Labels with Text

Safety Label Location



A—WARNING/CAUTION TCU34782
 B—CAUTION TCU16753

C—WARNING TCU25390
 D—DANGER TCU34783

TCT015864—UN—22MAY18

OOU005,000063D-19-21MAY18

Safety Labels with Text

Understanding the Machine Safety Labels



MXAL42363—UN—22MAY13

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards. DANGER or WARNING safety labels are located near specific 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.

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

- **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.

Replace missing or damaged safety labels. Use this operator's manual for correct safety label placement.

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

French or Spanish Safety Labels and Operator's Manual

Operator's manuals and safety labels with content in French or Spanish are available for this machine through authorized John Deere dealers. See your John Deere dealer.

NOTE: Both text and no-text labels are shown. Your machine is only equipped with one of these types of labels.

MP47322,00F4601-19-24APR19

WARNING / CAUTION



TCAL45466—UN—08APR13

WARNING

To avoid injury from thrown objects. Keep bystanders away. Shut off engine before opening hopper top. Keep chutes in place.

CAUTION

Ballast per operator's manual. Bags, if equipped, are subject to wear and deterioration. Check bag frequently. Replace as necessary. Use John Deere bag or equivalent.

AP43109,0000185-19-05DEC15

CAUTION



TCAL45467—UN—08APR13

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

MX00654,000009A-19-16DEC15

Safety Labels with Text

WARNING



TCAL45468—UN—08APR13

To avoid injury from rotating belts, keep all shields and guards in place.

AP43109,0000187-19-05DEC15

DANGER



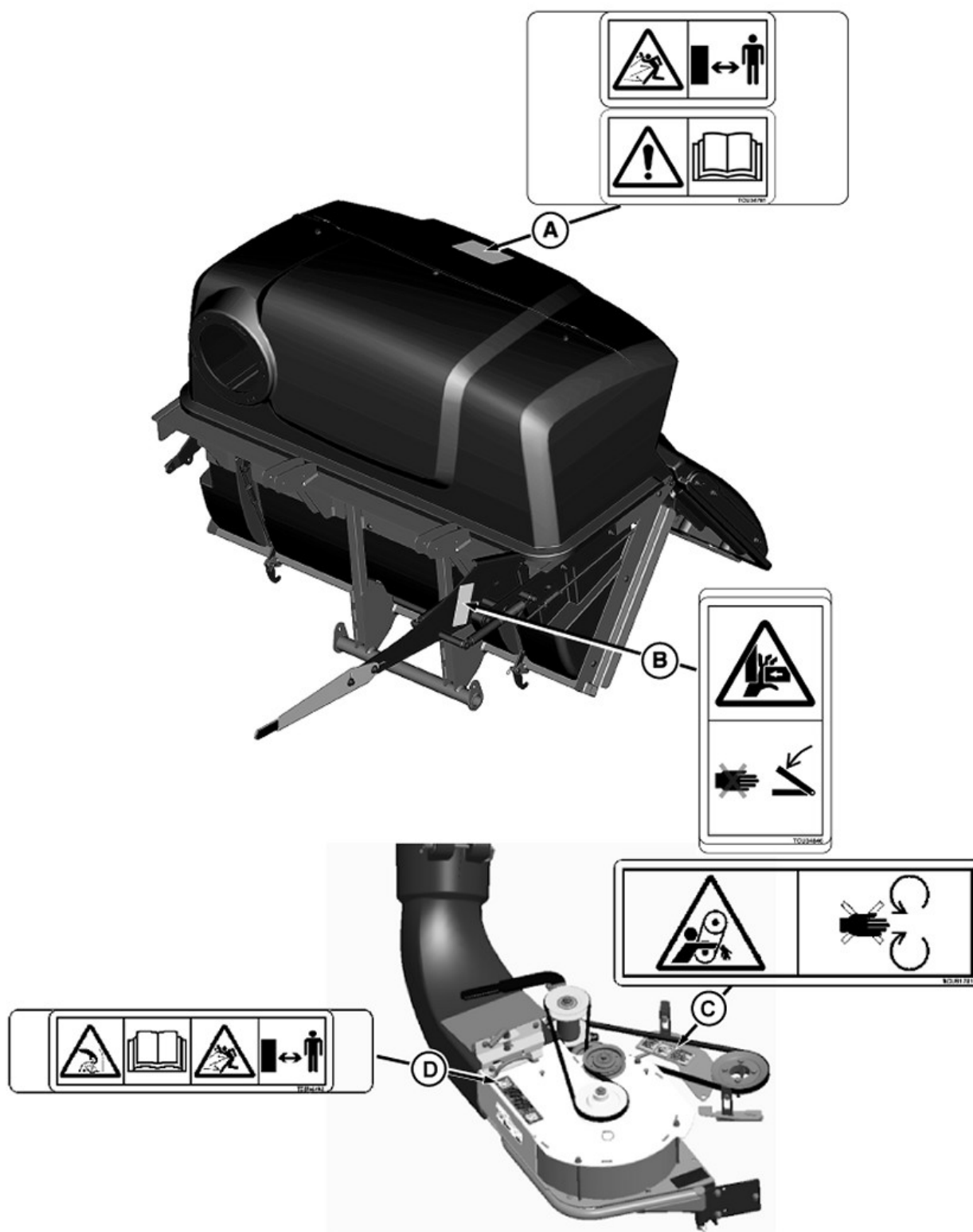
TCAL45464—UN—08APR13

Avoid injury from rotating blade and thrown objects. Do not operate blower without entire grass catcher in place. Shut engine off before unclogging or servicing.

AP43109,0000183-19-05DEC15

Safety Labels without Text

Safety Label Location



A—Avoid Injury From Thrown Objects/Read Operator's Manual
TCU34781
B—Avoid Injury From Crushing TCU34846

C—Avoid Injury From Rotating Belts TCU31701
D—Avoid Injury From Rotating Blades and Thrown Objects
TCU34784

TCT015865—UN—22MAY18

OUC02005,000063E-19-21MAY18

Safety Labels without Text

Understanding the Machine Safety Labels without Text



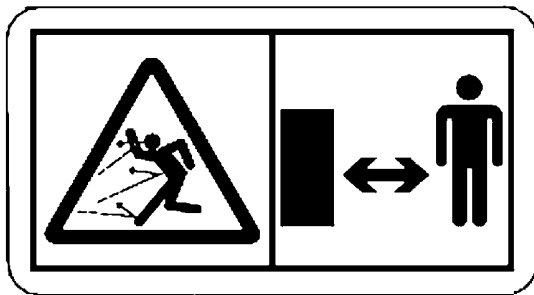
TCT005498—UN—11SEP12

At several important places on this machine, safety signs are affixed which signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information on how to avoid personal injury. These safety signs, their placement on the machine, and a brief explanatory text are shown in this Safety section.

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

MX00654,0000389-19-21JUN18

Avoid Injury From Thrown Objects

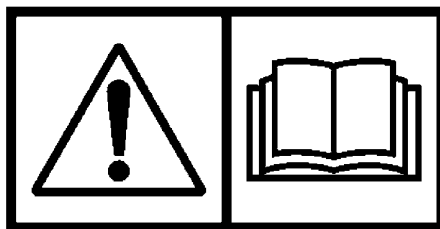


TCT013244—UN—08DEC15

Avoid injury from thrown objects. Keep bystanders away. Shut off engine before opening hopper top. Keep chutes in place.

MX00654,0000096-19-08DEC15

Read Operator's Manual



MXAL42776—UN—09APR13

- This operator's manual contains important information necessary for safe machine operation.
- Carefully read operator's manual before operating machine or attachment. Observe all safety rules to avoid accidents.

MX00654,000038B-19-01APR19

Avoid Injury From Crushing

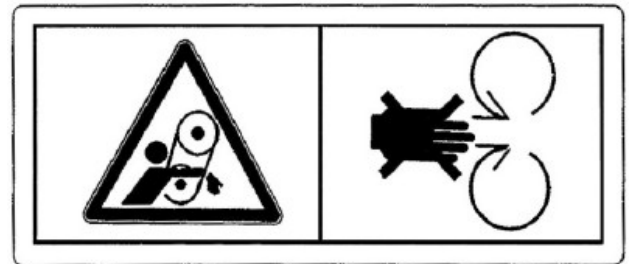


TCT013250—UN—23DEC15

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

MX00654,000009B-19-23DEC15

Avoid Injury From Rotating Belts

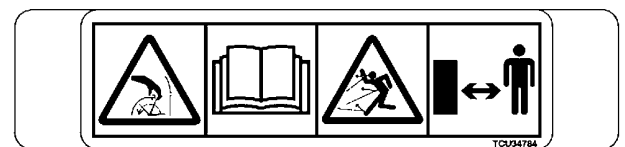


TCT010815—UN—06MAR14

- Stay clear of moving belts.
- Do not operate machine without shields in place.

TH84124,0000070-19-07MAR14

Avoid Injury From Rotating Blades and Thrown Objects



TCT013243—UN—08DEC15

Avoid injury from rotating blade and thrown objects. Do not operate blower without entire grass catcher in place. Shut engine off before unclogging or servicing. Carefully read operator's manual before operating machine. Observe all safety rules to avoid accidents.

MX00654,0000094-19-09DEC15

Safety

Read Safety in Machine Operator's Manual

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

OUMX068,00004DC-19-19DEC13

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 or others.
- 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.

OUMX068,00004DD-19-25MAR19

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.

OUMX068,00004DE-19-19DEC13

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.

OUMX068,00004DF-19-19DEC13

Avoid Injury From Thrown Objects



TCAL41689—UN—08APR13

- 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.

Safety

- 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.

OUMX068,00004E0-19-19DEC13

- 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.

OUMX068,00004E2-19-19DEC13

Avoid Injury From Rotating Blades



TCAL46317—UN—15APR13

- 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.

OUMX068,00004E1-19-19DEC13

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.

Preparing Vehicle

Checking Tire Pressure

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

AP43109,0000191-19-05APR13

Install Proper Mower Blades

IMPORTANT: 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.

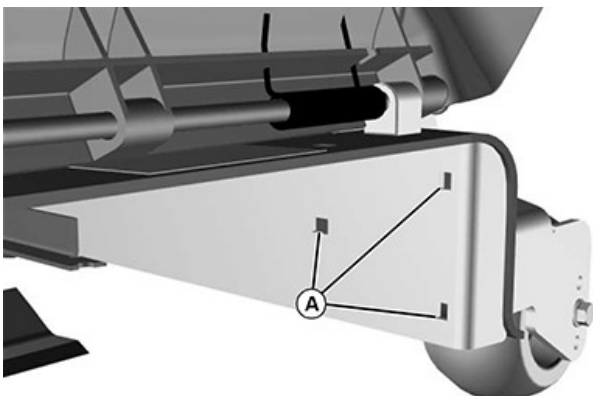
AP43109,0000192-19-27JAN21

Install Front Blower Mounting Bracket for All Side Discharge Decks

CAUTION: Rotating blades are dangerous.

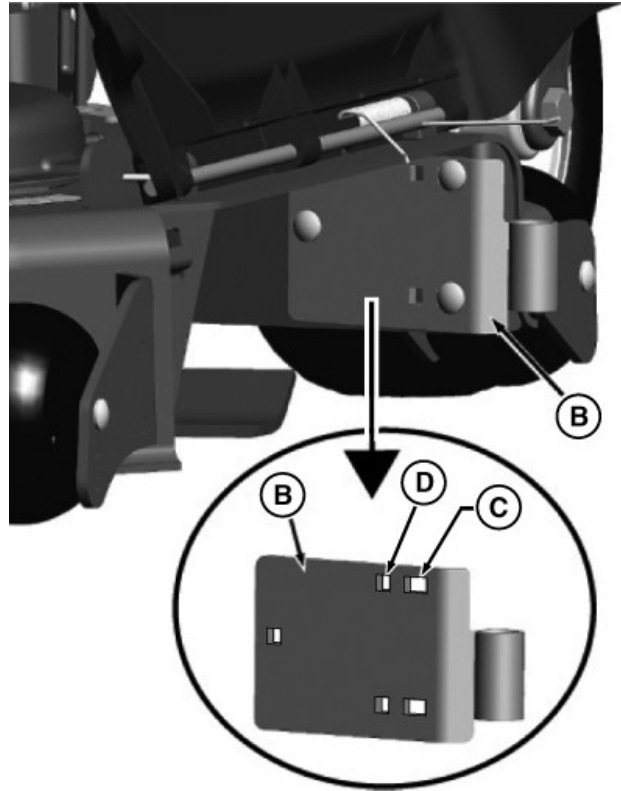
Before adjusting or servicing mower:

- 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.



TCAL45471—UN—08APR13

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



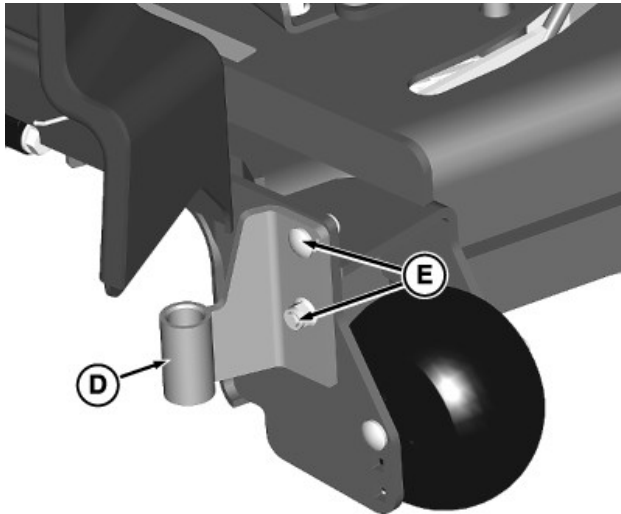
TC101534—UN—14JAN21

Hardware removed for clarity.

2. Position bracket as shown with blower pivot tube toward bottom.
3. Position front pivot bracket (B) flush with deck.
4. Install and tighten three M8 x 25 carriage bolts and lock nuts in locations listed:
 - 54 in deck located in the middle of slot (C).
 - 60 in deck is located in front of slot (C).
 - 72 in deck does not use the slot, use the next square hole (D).

Preparing Vehicle

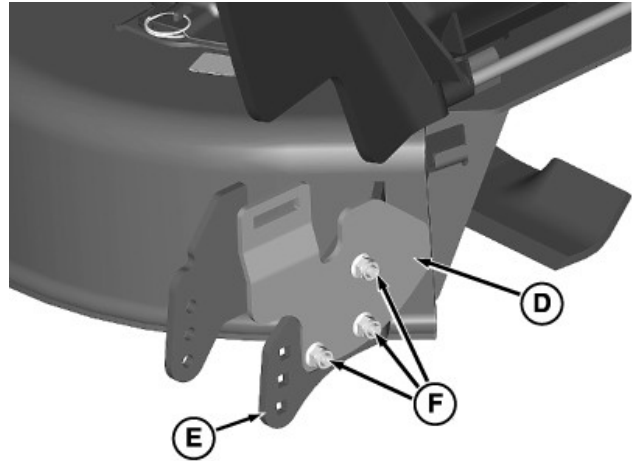
Install Front Blower Mounting Bracket for All Mulch on Demand Decks



TCT015860—UN—17MAY18

1. Position front pivot bracket (D) flush with the outside scalp wheel frame.
2. Install and two M8 x 25 carriage bolts (E) and locknuts, and secure bracket into place.

SB31882,00004FB-19-27JAN21

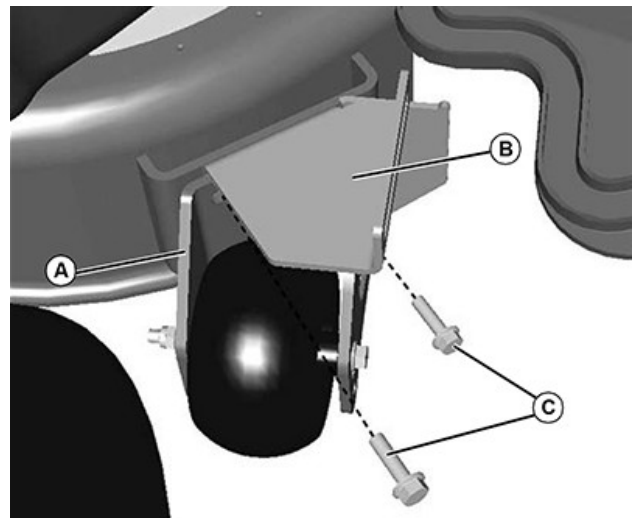


TCT015861—UN—17MAY18

54 Inch Deck Shown

2. Position blower support bracket (D) in place onto the anti-scalp wheel bracket (E). Secure bracket with three M8 x 25 carriage bolts (F) and M8 lock nuts.
3. Install anti-scalp wheel back onto the mower deck with hardware removed earlier.

Install Blower Support Bracket

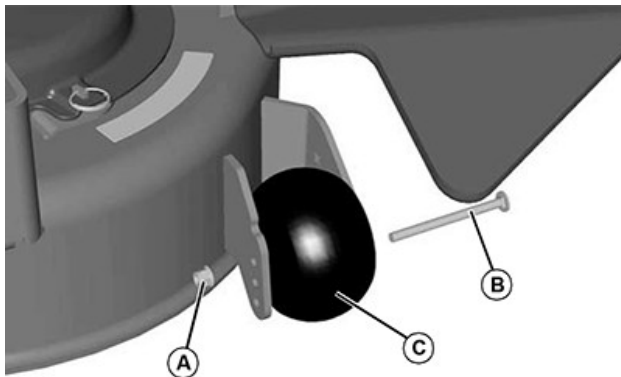


TCAL45474—UN—08APR13

72 Inch Deck Shown

Install Rear Blower Mounting Bracket

Install Rear Blower Mounting Bracket



TCAL45475—UN—08APR13

54 Inch Deck Shown

1. Remove lock nut (A) and bolt (B), and remove the right anti-scalp wheel (C) from the rear of the mower deck. Retain wheel and hardware.

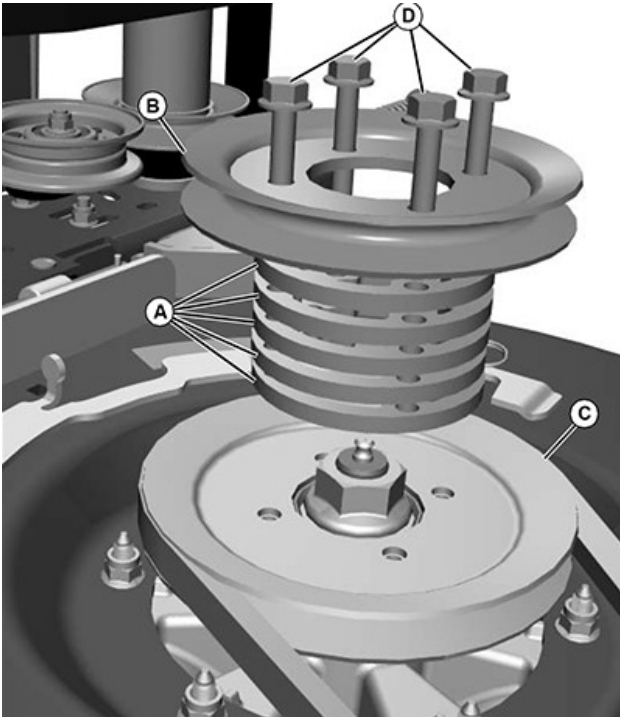
1. Remove screws and rear right anti-scalp wheel assembly (A) from the mower deck.
2. Position blower support bracket (B) in place flush against deck.
3. Install anti-scalp wheel onto the bracket and secure in place with new M8 x 30 screws (C).

SB31882,00004FA-19-27JAN21

Preparing Vehicle

Install Pulley and Spacer

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



TCAL45477—UN—08APR13

54 in. Deck Shown.

2. Install spacers:

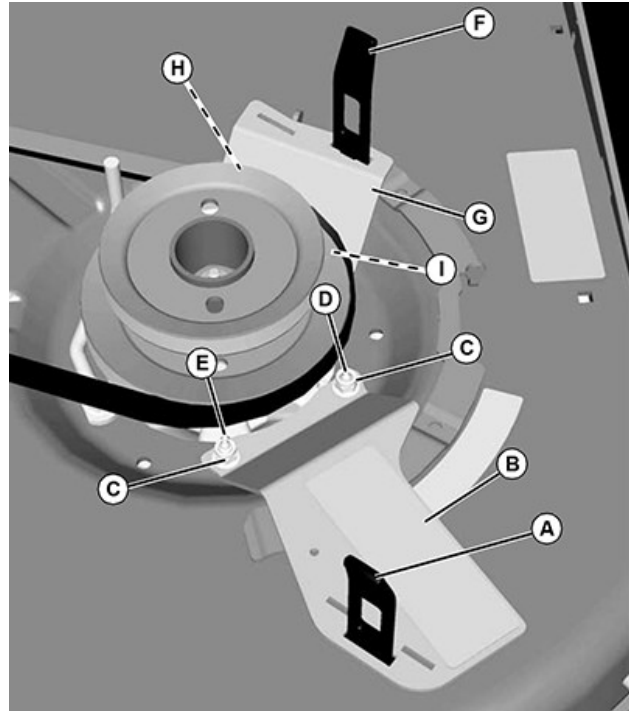
- 60 in. MOD Deck - Install seven spacers (A) and extra pulley (B) on sheave (C) using four M8x65 flange head bolts (D), and tighten to specification.
- All Other Mower Decks - Install five spacers (A) and extra pulley (B) on sheave (C) using four M8x50 flange head bolts (D), and tighten to specification.

Specification

Mower Deck Bolts—Torque. 24 N·m (18 lb-ft)

AP43109,0000195-19-05APR13

Install Brackets for Sheave Cover



TCAL45478—UN—08APR13

1. Install rubber bungee (A) through the rear MCS support bracket (B).
2. Remove locknuts (C), and install bracket (B) with safety decal on it in the four o'clock position (D) and six o'clock position (E) of the bolt pattern.
3. Place locknuts (C) on bolts.
4. Place the rubber bungee (F) through the front MCS support bracket (G). Install the front MCS support bracket (G) at the twelve o'clock position (H) and two o'clock position (I) of the bolt pattern.
5. Place cover on brackets to insure proper fit up. Remove cover and tighten all hardware.

AP43109,0000196-19-05APR13

Install New Gate (Mulch on Demand Mower Decks Only)

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

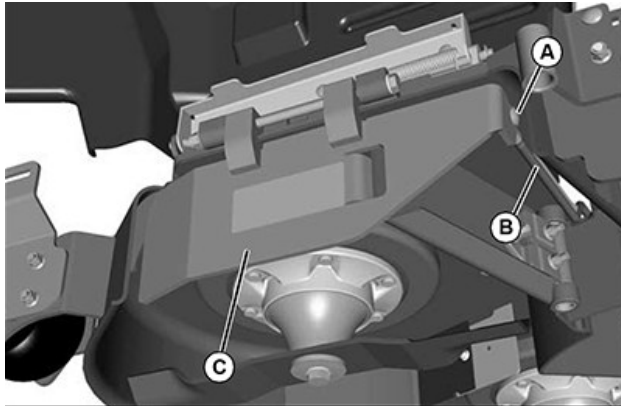
CAUTION: Rotating blades are dangerous.

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.

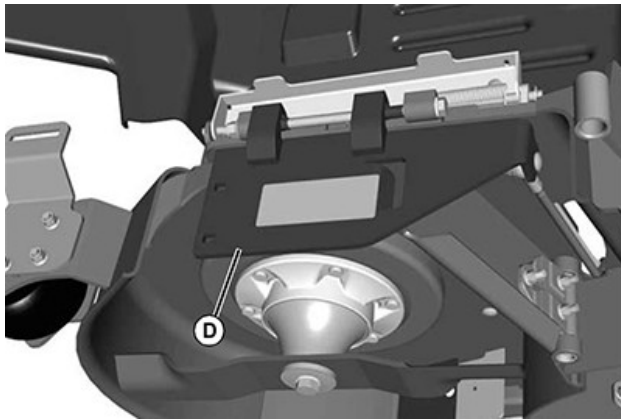
2. Lift discharge chute up.

Preparing Vehicle



TCAL45479—UN—08APR13

3. Remove nut and carriage bolt (A) securing link assembly (B).
4. Remove discharge gate (C) by removing nut and bolt.

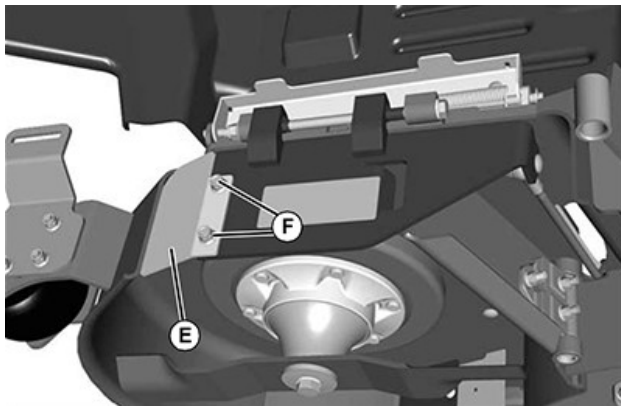


TCAL45480—UN—08APR13

5. Install new gate (D) and attach link assembly using previously removed nut and bolt

Gate Extension for MCS Gate

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



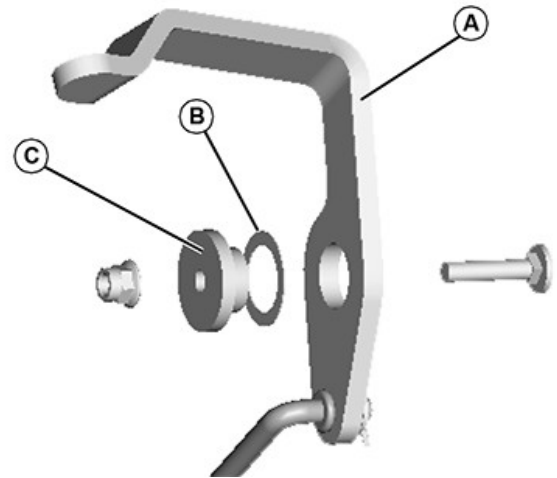
TCAL45481—UN—08APR13

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

AP43109,0000197-19-05APR13

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

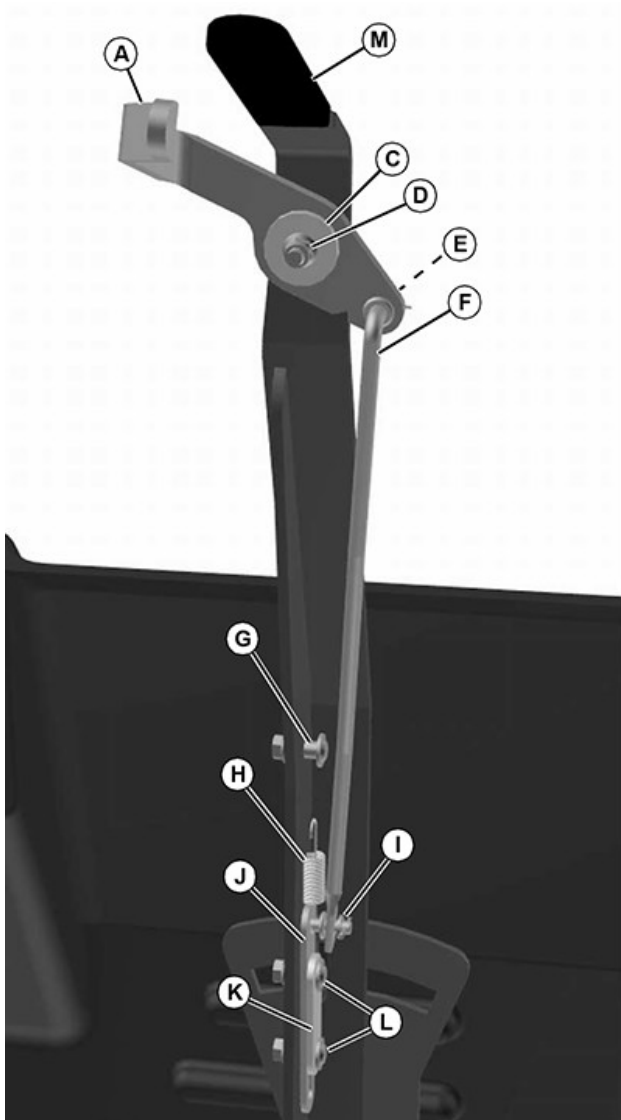
1. Park machine safely. (See Parking Safely in the SAFETY section.)



TCAL45482—UN—08APR13

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

Preparing Vehicle



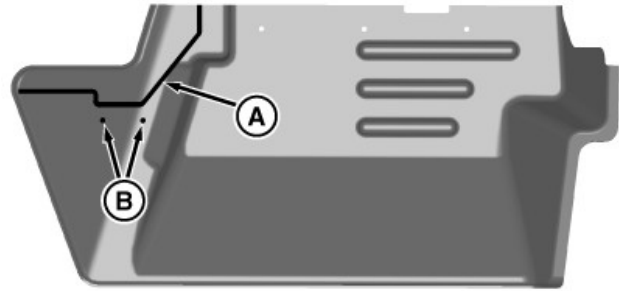
TCAL45483—UN—08APR13

3. Insert bushing (C) into the lever release (A) and attach to the 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). Tighten to 8 lb·ft (11 N·m).
5. Install M6x21 socket head shoulder bolt and nut (G). Tighten hardware.
6. Install tension spring (H) from pawl plate (J) to the socket head shoulder bolt (G).
7. Install link latch (F) to the 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.

AP43109,0000198-19-10MAR19

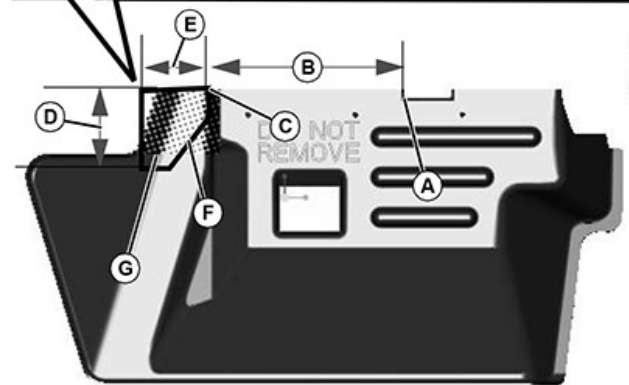
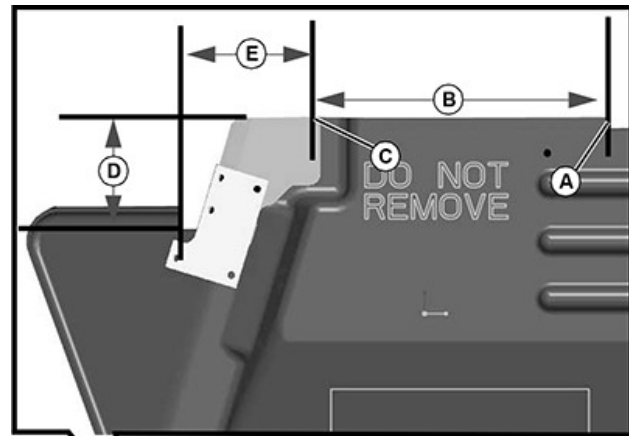
Trim Discharge Chute

60 in MOD Deck



TCT012321—UN—12FEB15

1. Cut along the scribe line (A) and drill at hole locations (B) if present. The following instructions are for discharge chutes without the scribe and drill lines.



TCAL45486—UN—08APR13

Top image shows parts installed for clarity only.

2. Begin at point (A) and measure distance (B) as shown. Scribe a mark (C).
3. Measure distance (D) beginning from the hinge side of guard as shown. Scribe a mark.
4. Begin at point (C) and measure distance (E) as shown. Scribe a mark.
5. Using an appropriate tool, measure and mark a 45° angle line (F).
6. Extend remaining lines from marks so they meet at a 90° angle and identify the area (G) as shown.

Preparing Vehicle

- Remove area (G) using a suitable cutting tool.

Distance (B) 270.00 ± 0.80 mm (10.62 ± 0.03 in)

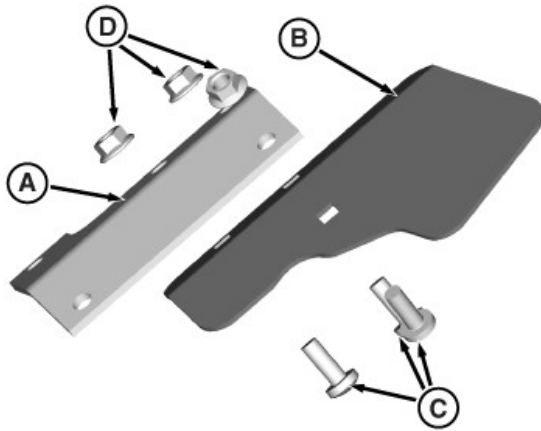
Distance (D) 100.00 ± 0.80 mm (3.93 ± 0.03 in)

Distance (E) 110.00 ± 0.80 mm (4.33 ± 0.03 in)

Install Patch on Discharge Cutout

IMPORTANT: Avoid damage! Rubber hinge must be installed on top of the metal plate to function properly.

Insert pan head screws on the metal plate side and nuts on the rubber hinge side. Tighten joint by turning screw while holding nut to prevent tearing of the rubber hinge.



TCT012327—UN—16APR15

- Install rubber hinge (A) on top of the metal plate (B) using three M6 x 16 pan head screws (C) and M6 flange nuts (D).



TCT012328—UN—16APR15

- Position the metal hinge assembly onto the chute where the cutout is. Drill two 6.35 mm (1/4 in) holes (E) through the chute where the rubber hinge indicates.

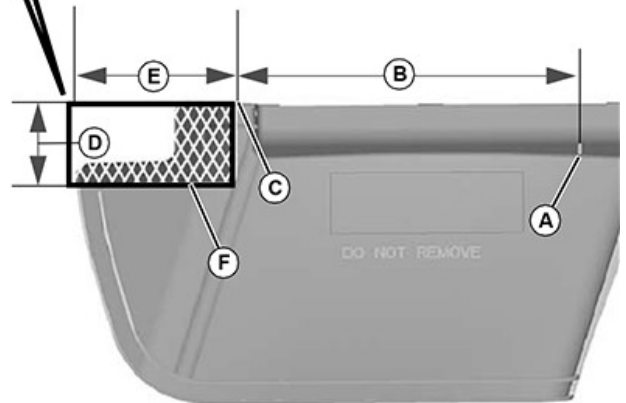
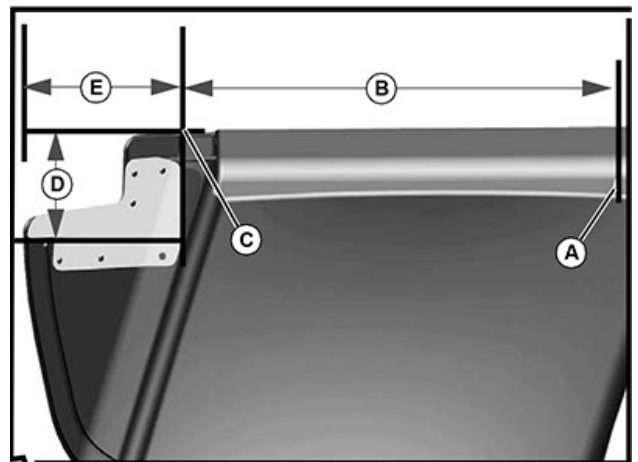
- Bolt the rubber hinge on top of the chute with two M6 x 16 pan head screws and M6 flanged nuts.

60SD and 72SD Decks



TCT012322—UN—12FEB15

- Cut along the scribe line (A) if present. The following instructions are for discharge chutes without the raised scribe lines.



TCAL45488—UN—08APR13

Top image shows parts installed for clarity only.

- Begin at point (A) and measure distance (B) as shown. Scribe a mark (C).

Preparing Vehicle

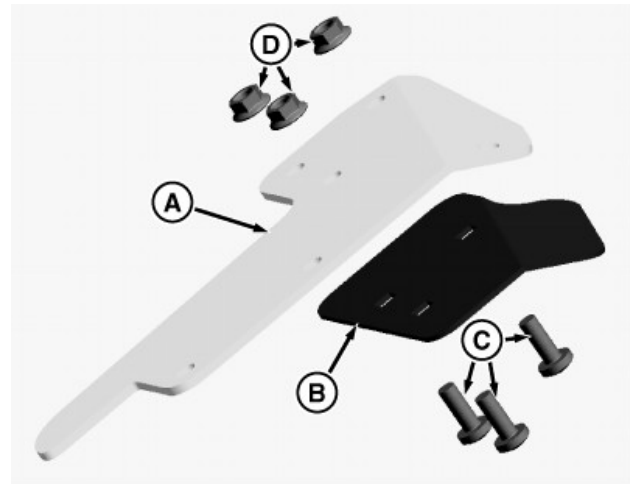
- 3. Measure distance (D) beginning from the hinge side of guard as shown. Scribe a mark.
- 4. Begin at point (C) and measure distance (E) as shown. Scribe a mark.
- 5. Extend lines from both marks so they meet at a 90° angle and identify the boxed area (F) as shown.
- 6. Remove boxed area (F) using a suitable cutting tool.

Distance (B) 423.00 ± 0.80 mm (16.65 ± 0.03 in)
Distance (D) 101.6 ± 0.80 mm (4.0 ± 0.03 in)
Distance (E) 200.00 ± 0.80 mm (7.87 ± 0.03 in)

Install Patch on Discharge Cutout

IMPORTANT: Avoid damage! Rubber hinge must be installed on top of the metal plate to function properly.

Insert pan head screws on the metal plate side and nuts on the rubber hinge side. Tighten joint by turning screw while holding nut to prevent tearing of the rubber hinge.



TCT012319—UN—11FEB15

- 1. Install rubber hinge (A) on top of the metal plate (B) using three M6 x 16 pan head screws (C) and M6 flange nuts (D).



TCT012318—UN—10FEB15

- 2. Position the metal hinge assembly onto the chute where the cutout is. Drill three 6.35 mm (1/4 in) holes

(A) through the chute where the rubber hinge indicates.

- 3. Bolt rubber hinge on top of the chute with three M6 x 16 pan head screws and M6 flanged nuts.

SB31882,00004F9-19-27JAN21

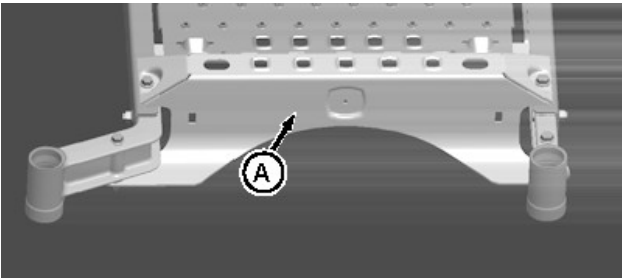
Install Weight Bracket

Parts in Kit (Weight Bracket)

Qty.	Description
1	Bracket, Weight
2	Carriage Bolt, M12x50
2	Locknut, Flange
2	Backing Plate, Square
2	Backing Plate, 50 x 80 mm (2 x 3.1 in)
2	Screw, M12x130
2	Nut, M12, Flange, Prevailing Torque

- 1. Park machine safely.

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

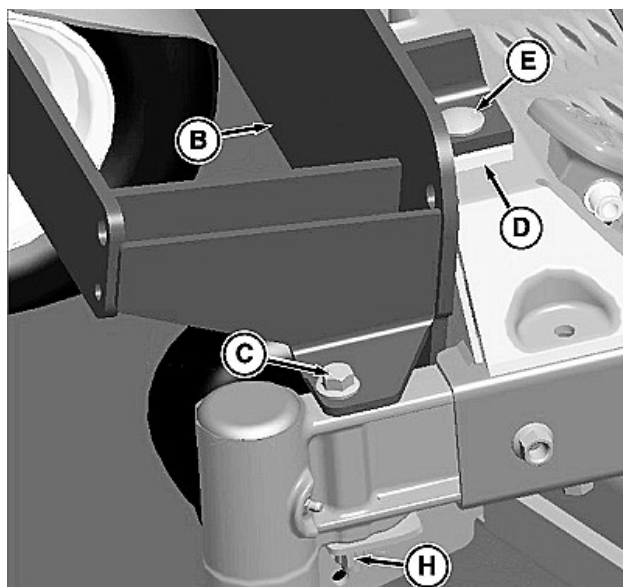


TCT013245—UN—14DEC15

Front caster wheels not shown for photo clarity only.

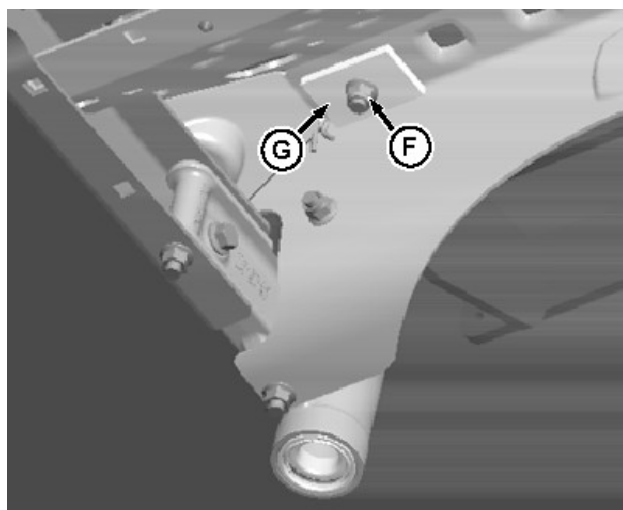
- 2. Clean front cross-member (A) area of any debris.
- 3. Center weight bracket on cross-member.

Preparing Vehicle



TCT013110—UN—19MAR18

4. Align front mounting holes of the weight bracket (B) with the holes in the cross-member.
5. Install M12x130 screws (C) and M12 prevailing torque nuts (H). Do not tighten at this time.
6. Place square backing plates (D) under upper mounting tabs of the weight bracket.
7. Install M12x50 carriage bolts (E) through top of the weight bracket. Do not tighten.



TCT013247—UN—14DEC15

8. Install 50 x 80 mm (2 x 3.1 in) backing plates (G) and nuts (F).
9. Tighten M12x50 carriage bolts (E) and then the M12x130 screws (C) to 80 lb·ft (108 N·m).

OUC02005,000060C-19-27JAN21

Assembly

Dump From Seat Hopper Parts List

Qty.	Description
1	Bracket, Lower Mounting Assembly MCS
1	Hopper Assembly
1	Plate, Backing Ring, DFS MCS
1	Lever, DFS Control Assembly
2	Carriage Bolt, M8x25
5	Locknut, M8
3	Washer, 8.3 mm (ID)
3	Carriage Bolt, M8x30
1	Latch, Left-Hand MCS Assembly
2	Shoulder Pin
2	Washer, 20 mm (ID)
2	Cotter Pin, M4x32
8	Locknut, M10 (13.5 mm Thick)
4	Carriage Bolt, M10x25
16	Washer, 10.5 mm (ID)
8	Flange Head Bolt, M10x70
2	Carriage Bolt, M12x35
2	Washer, 8.4 mm (ID)
2	Bushing, Idler Arm Pivot
2	Locknut, M8
1	Latch, Right-Hand MCS Assembly
2	Structural Tube, Upper Arm
4	Locknut, M10 (10 mm Thick)

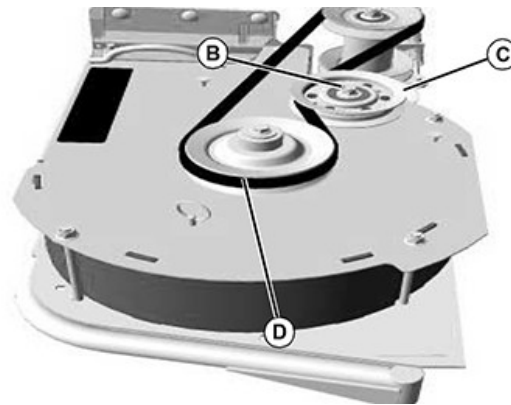
OUO2005,0000618-19-26MAR18

Assemble Blower



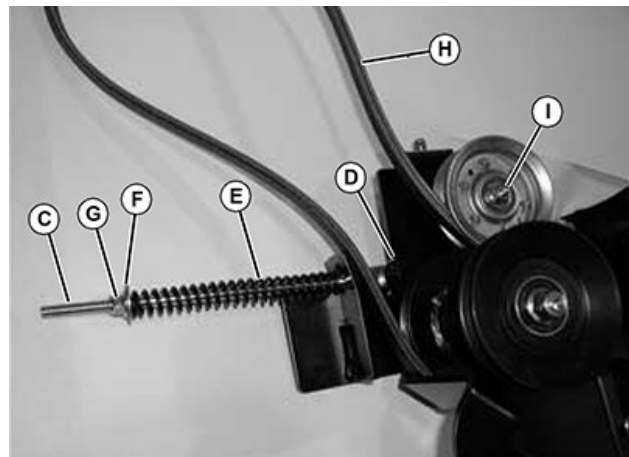
TCAL45493—UN—08APR13

1. Remove belt guard (A).



TCAL45494—UN—08APR13

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



TCAL45495—UN—08APR13

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

Blower Assembly Parts List

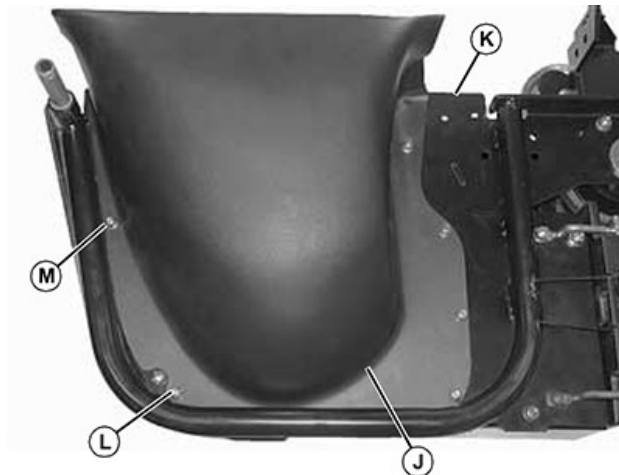
Qty.	Description
1	Assembly, Blower
1	Tension Rod Assembly, Primary
1	Pin, Lynch
1	Belt, Primary Drive

OUO2005,000060E-19-22FEB18

Assembly

pulley. (See Adjust Secondary Belt Tension in SERVICE section.)

7. Install belt guard (A).

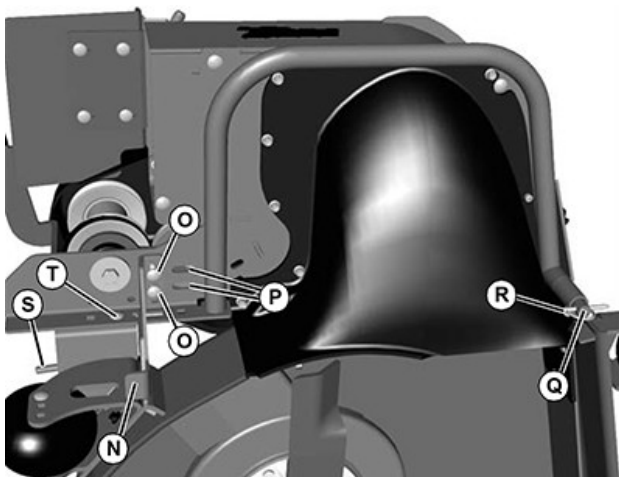


TCAL45496—UN—08APR13

Deck Boot for 54 Inch Shown

NOTE: Socket head cap screw (M) must be installed in this location.

8. Install blower boot (J) on the bottom of the blower housing (K) using the appropriate quantity of M6 x 20 carriage bolts (L) and one M6 x 20 socket head bolt (M) (with M6 lock nuts).

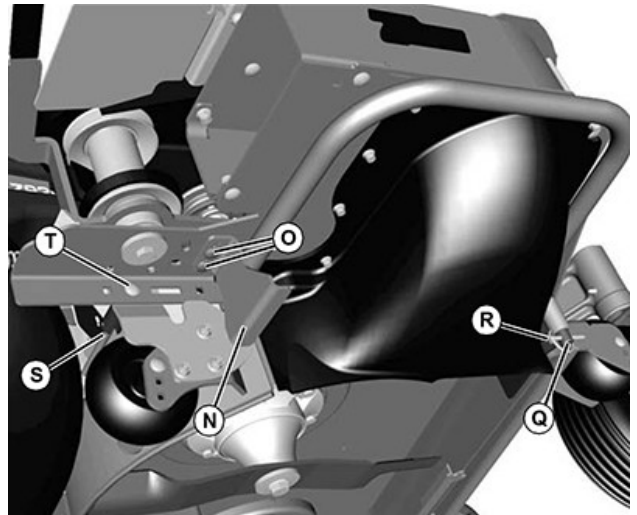


TCAL45497—UN—08APR13

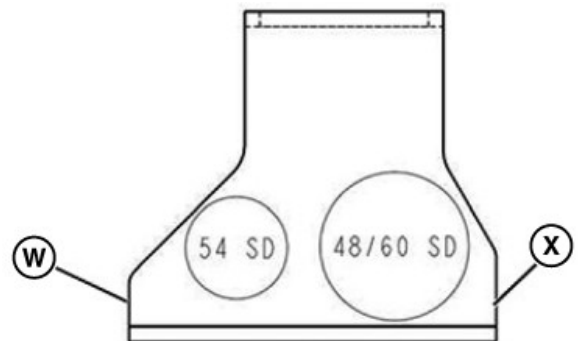
9. Install rear mounting bracket (N):

- For 54 inch and 72 inch decks, place bracket into slots as shown using two M8 x 25 carriage bolts (O) and M8 lock nuts.
- For all other size decks, place bracket into slots (P) using two M8 x 25 carriage bolts and M8 lock nuts.

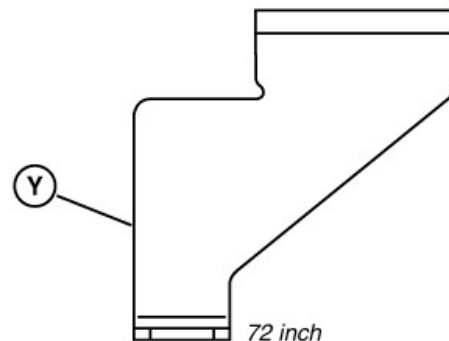
NOTE: The side with the etched deck size mounts up against the deck.



TCAL45498—UN—08APR13



Place this edge (W) on deck for 54 inch.
Place this edge (X) on deck for 60 inch.



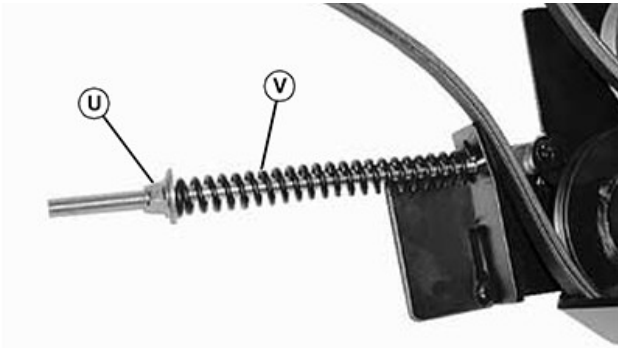
TC101542—UN—17FEB21

Place edge (Y) on deck for 72 inch.

- For 54 and 60 inch decks, bracket (N) is two-sided. Put side with the correct deck size callout onto anti-scalp wheel plate using two M8 x 25 carriage bolts (O) and M8 lock nuts.
10. Install blower front pivot pin (Q) and secure with the quick lock pin (R) in front mounting bracket. Swing blower into position, and align rear mounting bracket to install release handle (S) and M8 x 30 carriage bolt (T).
 11. Tighten hardware on the rear mounting bracket.

Assembly

12. Connect primary drive belt from blower to drive sheave on the deck.
13. Install primary belt guard onto the deck.



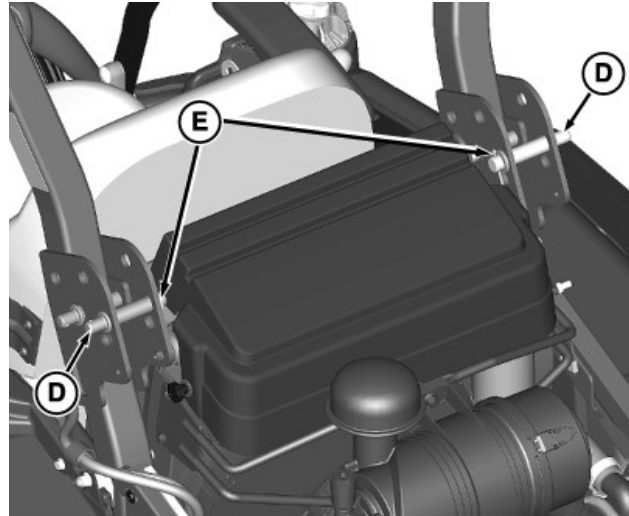
TCAL45500—UN—08APR13

14. Adjust primary drive belt.
15. Tighten nut (U) on the tension rod until spring (V) length is to specification.

Specification

Tension Rod Length—Distance. 150 +/- 10 mm (6.0 +/- 0.4 in)

SB31882,00004F8-19-17FEB21



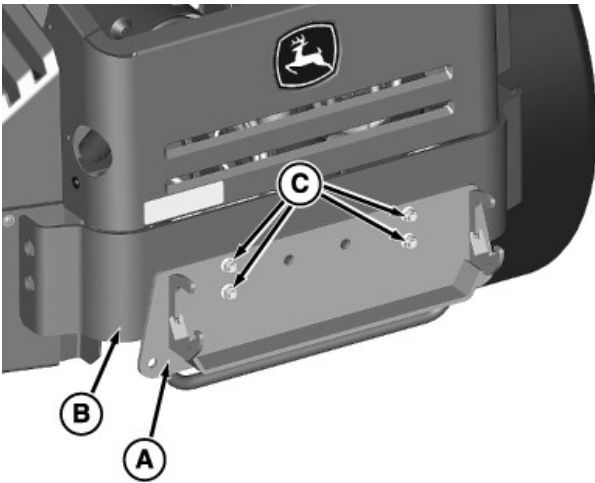
TCT013112—UN—17MAY18

3. Install M19 ROPS pin (D) into ROPS hinge holes as shown. Secure both pins with M19 flat washers and M4x32 cotter pins (E).

OUC02005,000060F-19-21MAY18

Assemble Frame

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

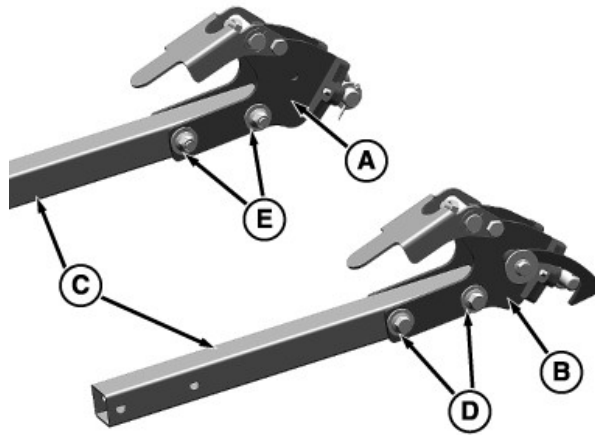


TCT013111—UN—17MAY18

2. Install lower mount (A) to the rear bumper (B) with M10x25 carriage bolts and the four shorter height M10 locknuts (C).

NOTE: The cotter pins are installed on the inner surface of the ROPS.

Assemble Upper Mounts to Hopper

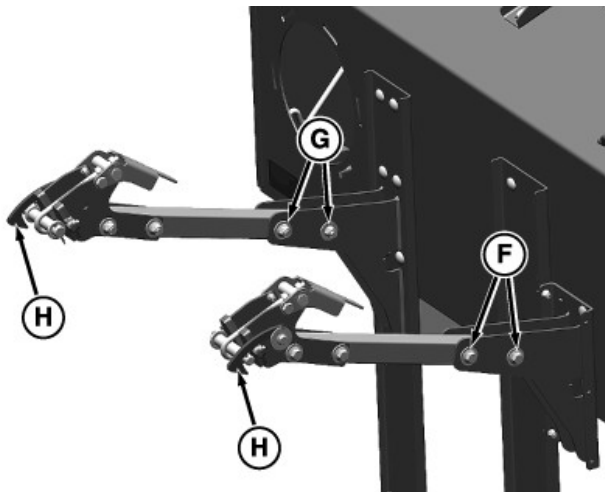


TCT013115—UN—17MAY18

1. Install the right and left upper mount latch assemblies (A & B) to the upper support tubes (C) using M10x70 flange bolts and M10 flat washers (E) and M10 locknuts and flat washers (D). Do not fully tighten hardware at this time.

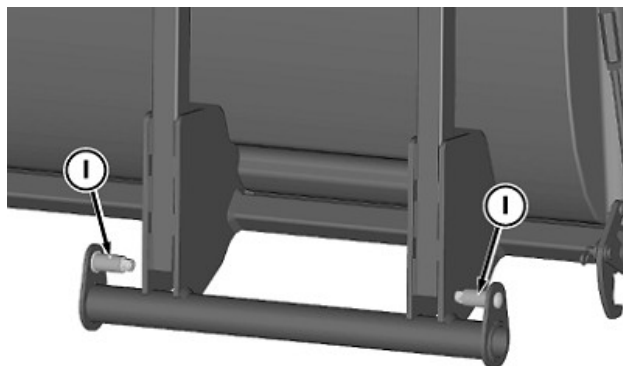
NOTE: Be sure that the temporary latches (H) are on the outside of the upper support tubes.

Assembly



TCT013116—UN—17MAY18

2. Attach the upper supports to the hopper frame with the M10x70 flange bolts and M10 flat washers (G) and M10 lock nuts and flat washers (F). Do not fully tighten the hardware at this time.



TCT015737—UN—20MAR18

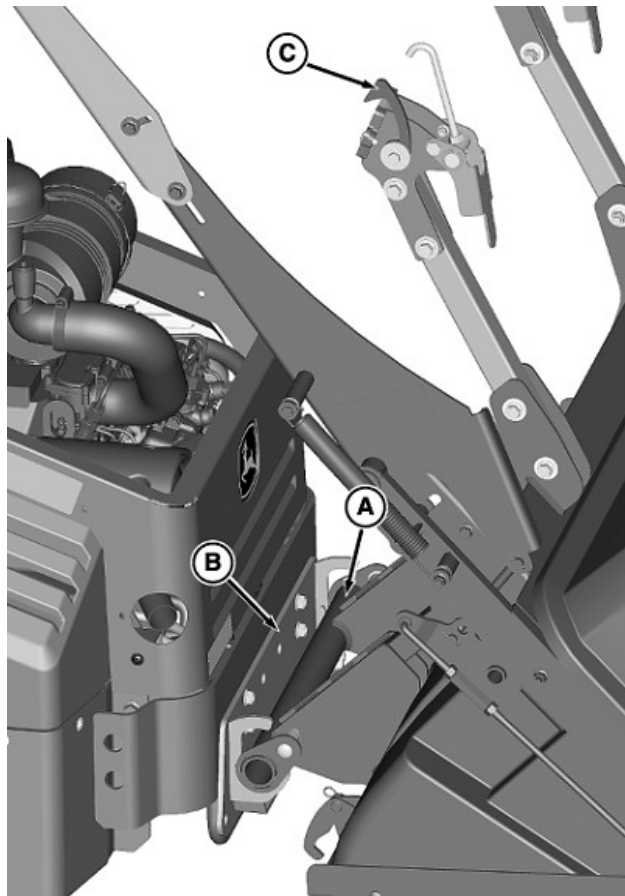
3. Loosely install the lower mount stops (I) with M8x50 carriage bolts, washers and locknuts.

OUC02005,0000619-19-12DEC18

Installing Hopper Assembly

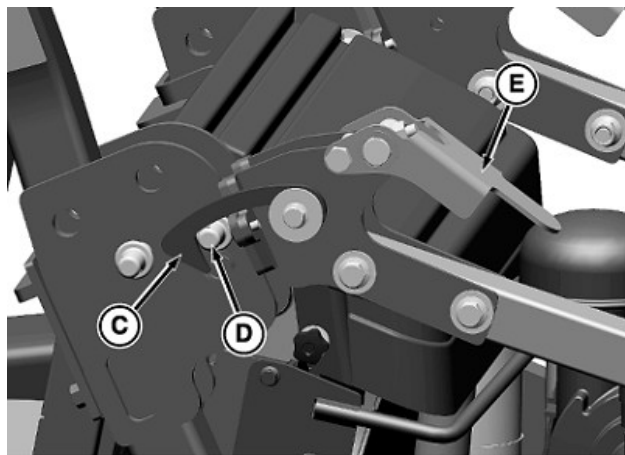
IMPORTANT: Allowing the hopper to contact abrasive surfaces can cause scratching.

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



TCT015739—UN—20MAR18

2. Position hopper assembly behind the machine with lower cross-tube (A) aligned with the lower hopper mount (B). Position the temporary latches (C) onto the stops.
3. Lift the assembly and place the lower cross-tube (A) into the cradles of the lower hopper mount (B).

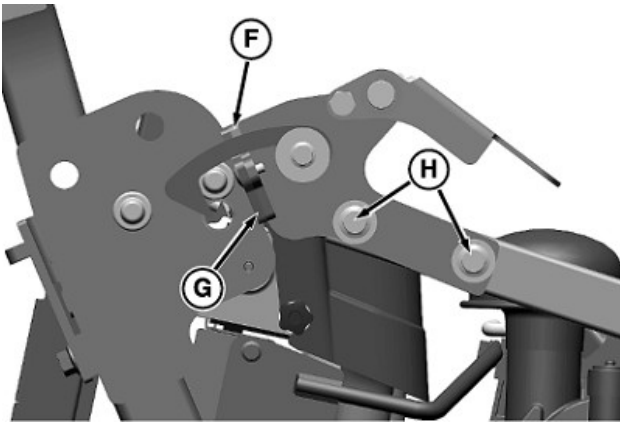


TCT013118—UN—20MAR18

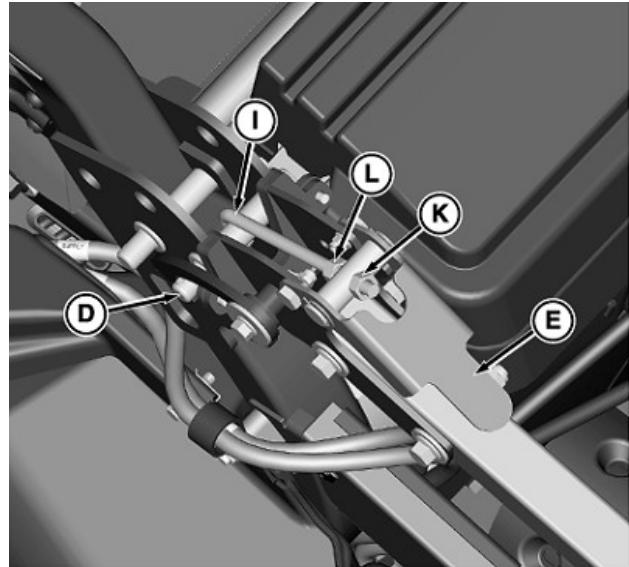
4. Tilt assembly forward until the temporary latches (C) hook onto the heads of the M19 pins (D).
5. Position latch hooks over M19 pins (D) and rotate the latch handles (E) into the locked position.

Assembly

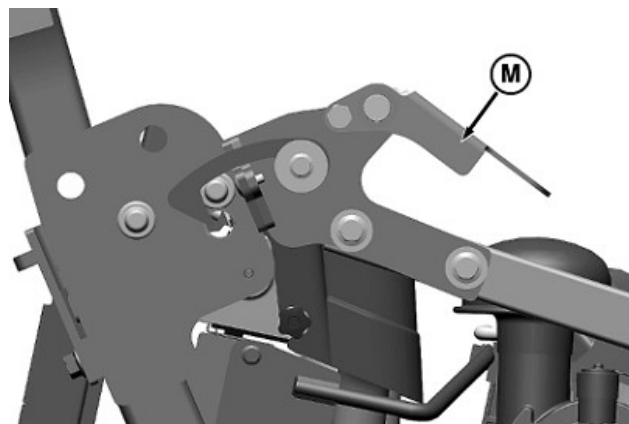
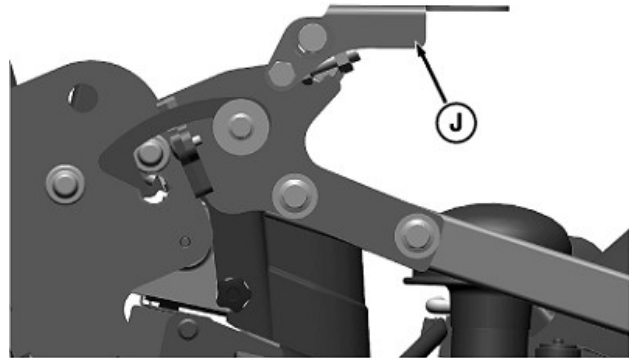
NOTE: Be sure that the permanent latch is sitting above the ROPS pin so it can be adjusted after the temporary latch is removed.



6. Using a suitable lifting device, rotate and hold the hopper in a position such that the upper mount pads (F) are held parallel to the rear surface of the ROPS hinge brackets (G).
7. Tighten all upper mount hardware (H) including the hardware at the upper mount latches and the hopper frame. Tighten the bolt in the slot first to help hold the bracket orientation in place.



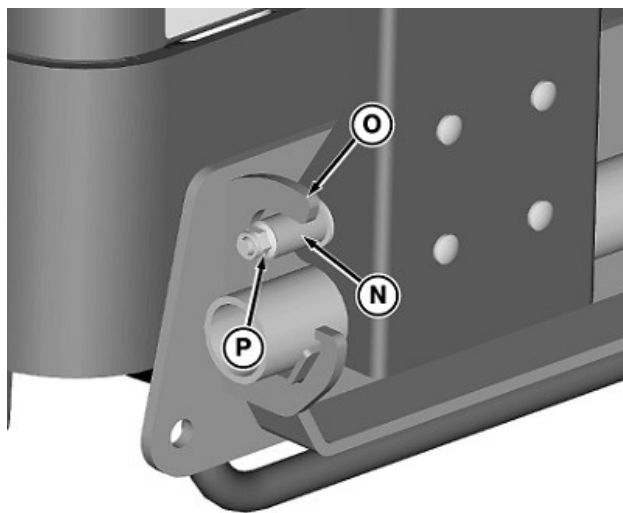
8. With the hopper held in place, latch hooks (I) positioned over the M19 pins (D). Position the latch handle (I) in a horizontal (J), or slightly above horizontal position. Tighten the latch tension adjustment nuts (K and L) so the latch hook draws snug against the pin (D).



9. Close the latch handle into the "locked" position (M). Ensure that latch is secure.
10. Repeat for the other side.

Assembly

11. Remove the hoist or lifting device from the hopper.



TCT015740—UN—20MAR18

12. Slide the lower mount stop (N) up until it touches the upper edge of the lower mount cradle hook (O), then tighten the hardware (P).

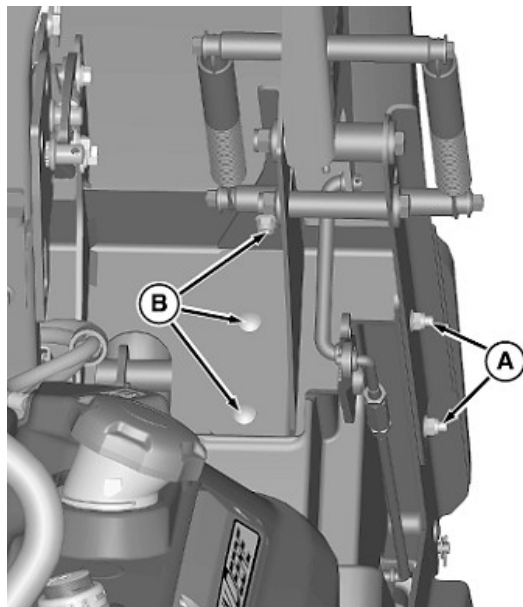
13. Repeat step 12 for the opposite side.

OJ02005,000061A-19-26MAR18

Assemble Hopper

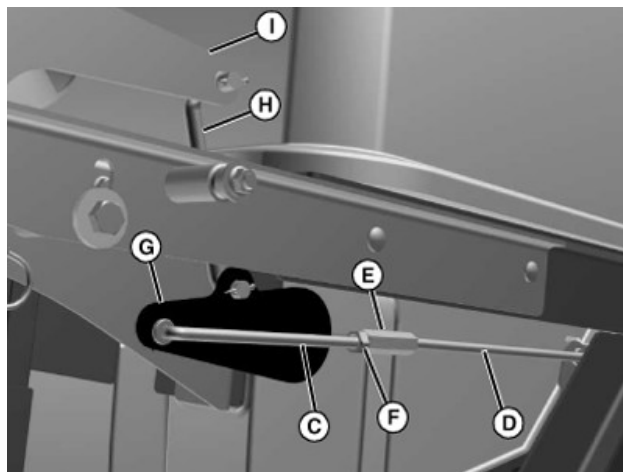
CAUTION: Fingers and hands can be pinched or crushed. Be aware of potential pinch points and keep hands away.

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



TCT015743—UN—22MAR18

1. Remove tie strap from handle assembly.
2. Place handle assembly in position onto the hopper frame, and install two M8x25 carriage bolts and M8 nuts at location (A). Do not tighten.
3. Install three M8x30 carriage bolts, M8 washers and M8 nuts at location (B).
4. Ensure that handle assembly is flat against the hopper frame and tighten all hardware.



TCAL45599—UN—10APR13

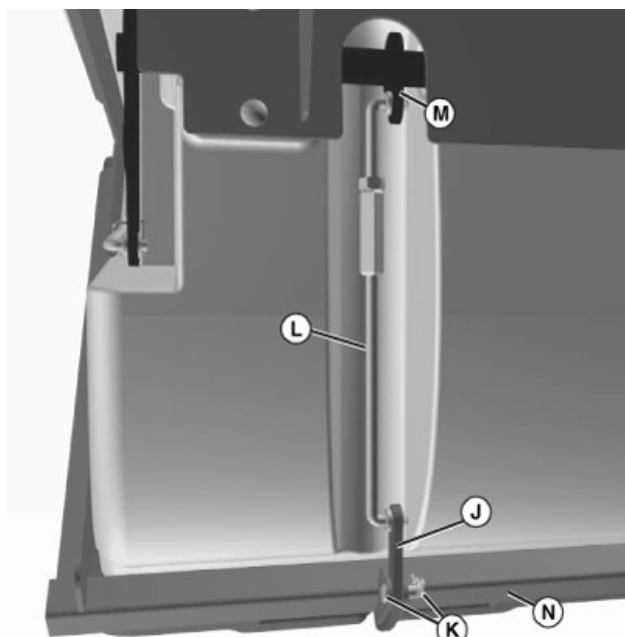
5. Install rods (C and D), turnbuckle (E), and lock nut (F) to the left control shaft bell crank (G) as shown. Secure rods with two M10 washers and cotter pins. Do not bend cotter pins at this time.
6. Install left door handle link (H) to bell crank (G) and handle (I). Secure link with the cotter pin. Do not bend the cotter pin at this time.
7. Push door handle down so left door handle link (C) is over center of the control shaft bell crank as shown.
8. Adjust left door link turnbuckle (E) until door does

Assembly

not close any further. Door may have a gap at bottom. Do not overtighten.

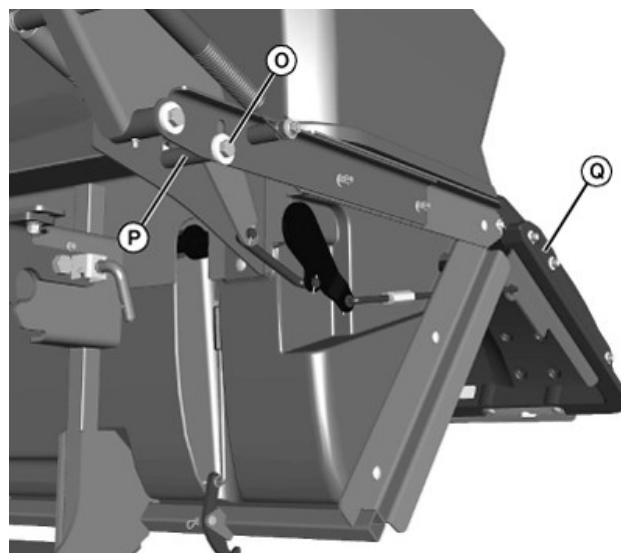
NOTE: Move door handle between open and closed positions while noting the over center force required to open door. It only takes a mild force to cause the door rod assembly (C—D) to move over center and open the door.

9. Lock lock nut (F) and disconnect door link from the control shaft.
10. Install and adjust right door link assembly as in steps 4—6.
11. Lock lock nut.
12. Connect left door link. Install and bend all cotter pins.
13. Check that the total opening force is not excessive. Adjust if necessary.



TCAL45600—UN—10APR13

14. With door closed, install the door catch (J) to frame with M10x28 clevis pin and spring pin (K).
15. Install latch link assemblies (L) to door catch (J) and bell crank (M) with M10 washers and cotter pins.
16. Repeat procedure for other door catch assembly.
17. With the door handle in closed position, adjust the latch hook link turnbuckles so that the door catches rotate up and touch the door catch bracket (N). Tighten both lock nuts.

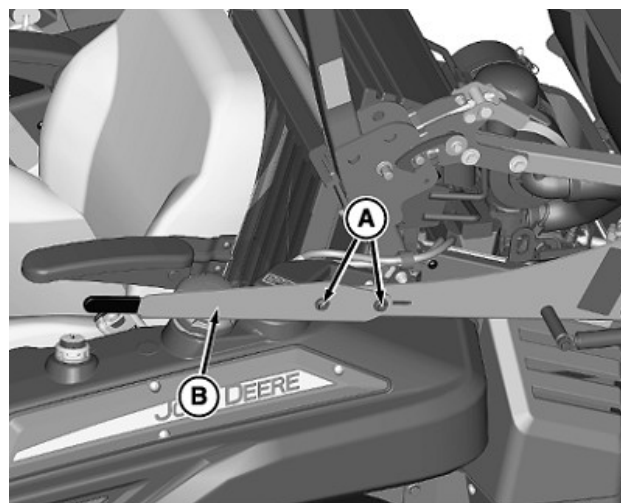


TCAL45601—UN—10APR13

18. Loosen hardware (O), and adjust handle stop (P) so door (Q) remains open when handle is in fully open position.

OUC02005,000061B-19-12APR18

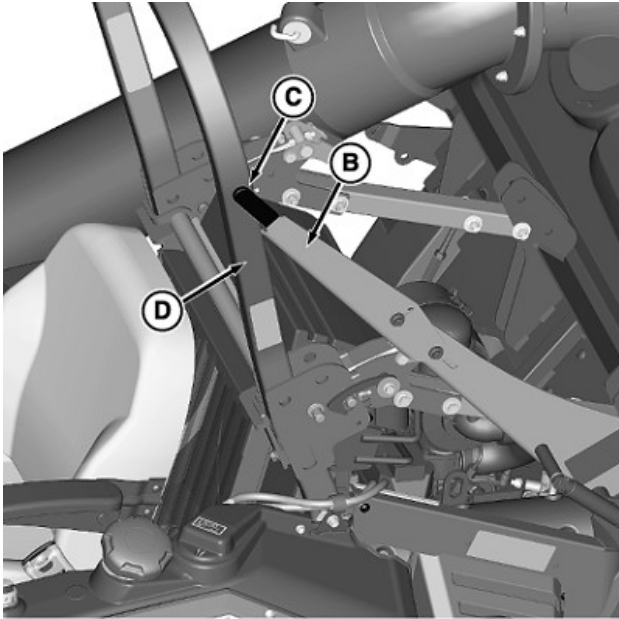
Adjust Hopper Door Handle



TCT015741—UN—20MAR18

1. Loosen handle hardware (A) and slide door handle (B) into the most comfortable position that allows good hand clearance to the side panel.
2. Tighten handle hardware.

Assembly

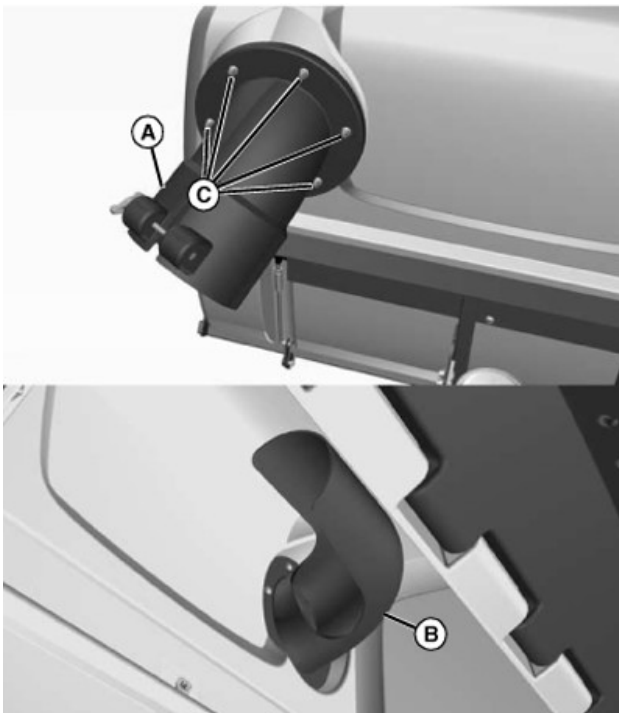


TCT015742—UN—20MAR18

3. While sitting in the seat, open the door and check hand clearance (C) between ROPs (D) and door handle (B). Readjust handle if needed.

OUC02005,000061C-19-12APR18

Assemble Upper Chute

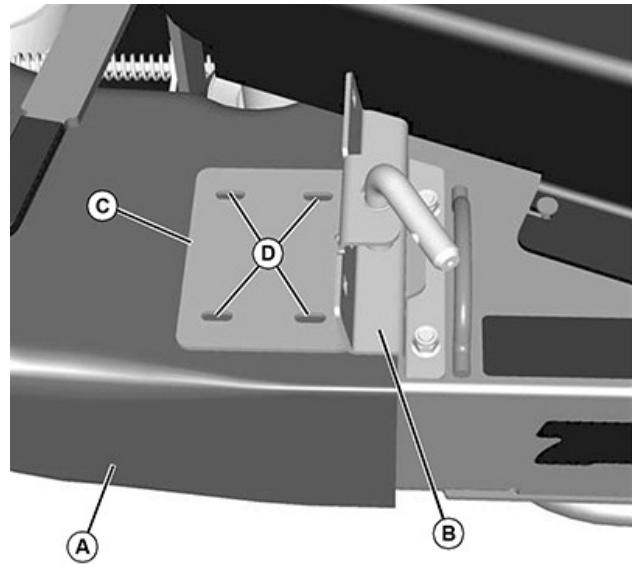


TCAL45602—UN—10APR13

1. Install the outer (A) and inner (B) upper chute assembly to hopper using five M8x45 carriage bolts and locknuts (C). Tighten all hardware.

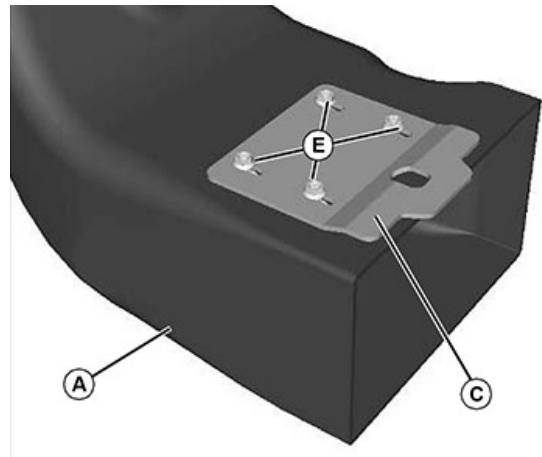
AP43109,0000252-19-09APR13

Assemble Lower Chute



TCAL45520—UN—08APR13

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



TCAL45521—UN—08APR13

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

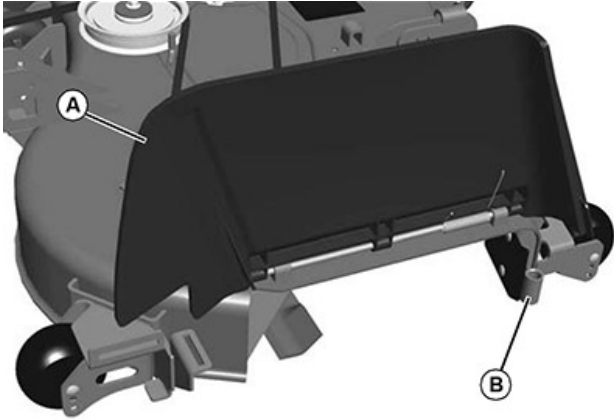
AP43109,00001A5-19-05APR13

Installing

Install Blower

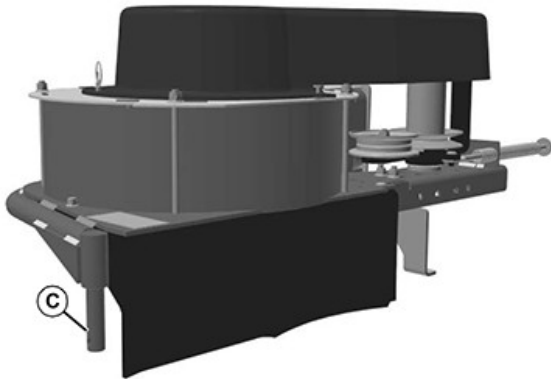
⚠ CAUTION: Machine component or attachment is heavy. Use a safe lifting device or get an assistant to help lift, install or remove component or attachment.

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



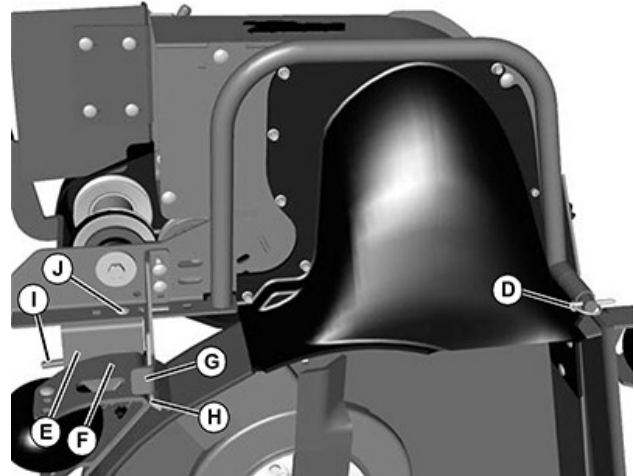
TCAL45523—UN—08APR13

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



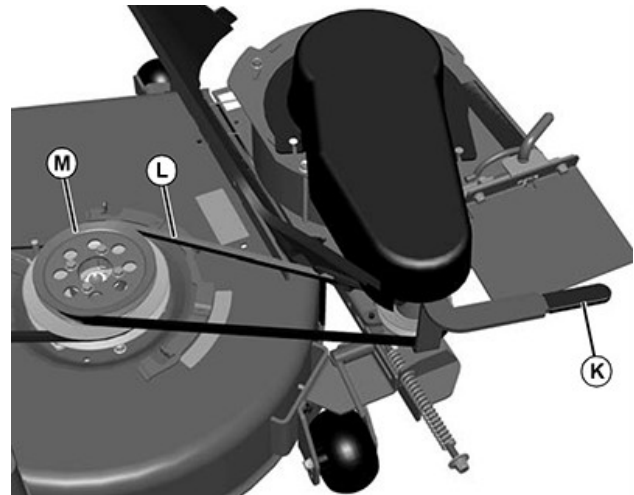
TCAL45524—UN—08APR13

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



TCAL45525—UN—08APR13

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.
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). Ensure mode change release handle is rotated to a position so it will not interfere with moving parts.



TCAL45526—UN—08APR13

Parts have been removed for clarity.

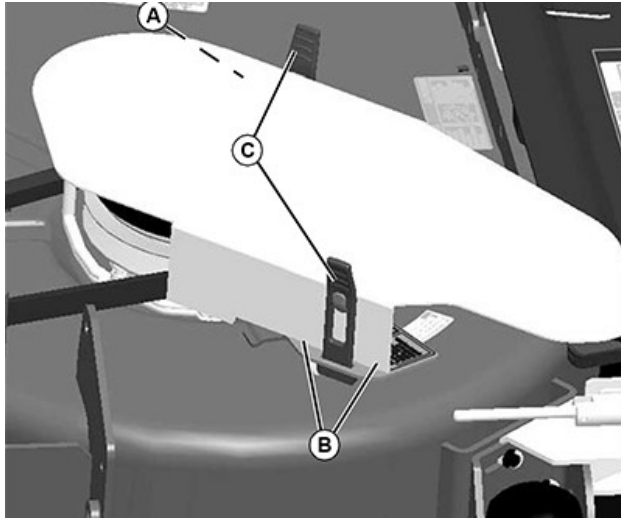
7. Use tension lever (K) to allow belt (L) to slip over sheave (M).
8. Install correct blower belt shield for application.

AP43109,00001A7-19-05APR13

Installing Sheave Cover

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

Installing



TCAL45527—UN—08APR13

2. Position front belt cover tab (A) into slot first, and then lower two rear tabs (B) into slots, as shown.
3. Secure with two bungee straps (C) from previously installed brackets.

AP43109,00001A8-19-05APR13

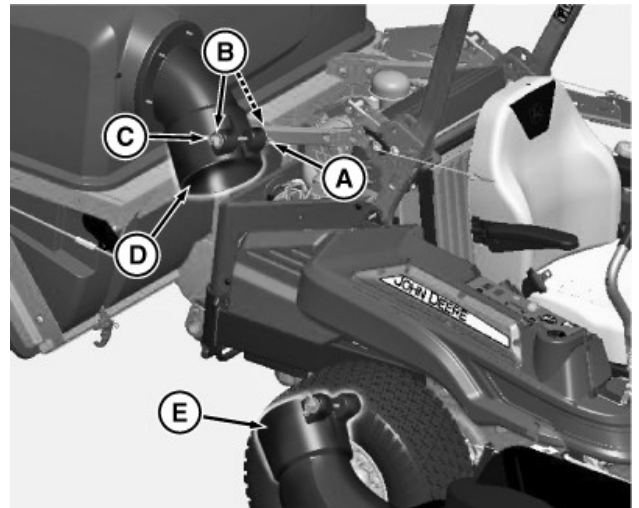
Cut Hose to Length

1. Cut hose to the length listed 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	Length
54SD	990 mm (39 in)
60SD	990 mm (39 in)
60MOD	990 mm (39 in)
72SD	1143 mm (45 in)

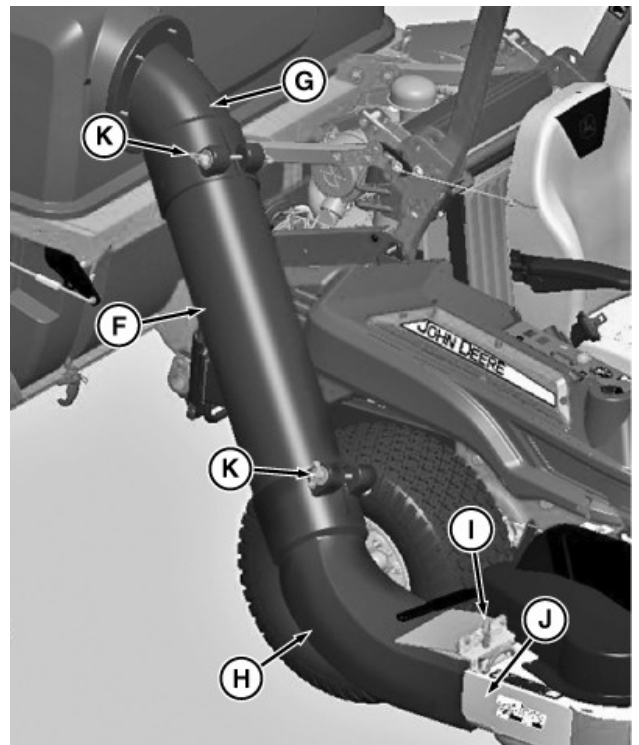
SB31882,00004F7-19-27JAN21

Installing Chute



TC101544—UN—19FEB21

1. Install J-bolt (A), two washers (B) and knob (C) onto upper chute assembly (D).
2. Repeat J-bolt assembly for lower chute (E).



TC101541—UN—19FEB21

3. Connect black hose (F) to upper chute assembly (G).
4. Connect the lower end of the black hose (F) to the lower chute (H).
5. Pull upward on pin (I), and install lower chute (H) into the blower outlet (J). Release pin to secure.

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

Installing

- To hold hose assembly in place, tighten knobs (K) on upper and lower chutes.

SB31882,000053E-19-19FEB21

Install Ballast

CAUTION: 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.
- Weight bracket should remain on machine when operating with the MCS even if chart shows that no weights are required.
- If your machine is equipped with a Propane Conversion Kit, refer to the ballast chart included in the propane kit Operator's Manual.

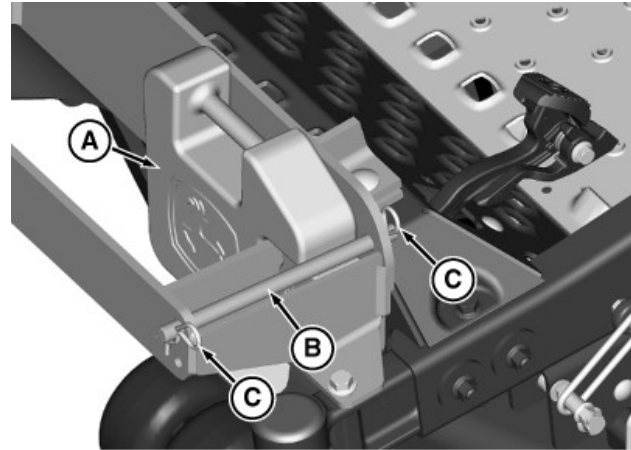
Install the proper front ballast to help counterbalance the total weight of the bagger. Remove ballast when the bagger is removed. Removing the ballast ensures proper operation of the machine when not bagging.

Model	Deck	Required Weights
Z994R	54 inch	5
Z994R	60 inch	5
Z994R	60 inch - Mulch on Demand	4
Z994R	72 inch	4

MX00654,0000222-19-27JAN21

Installing Weight

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



TCT014329—UN—26JUN18

- Install suitcase weights (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). Adding the weight to the left side offsets the weight of the blower assembly.

- Lock down the weights by sliding the rod (B) over them.
- Install locking pins (C) into rod.

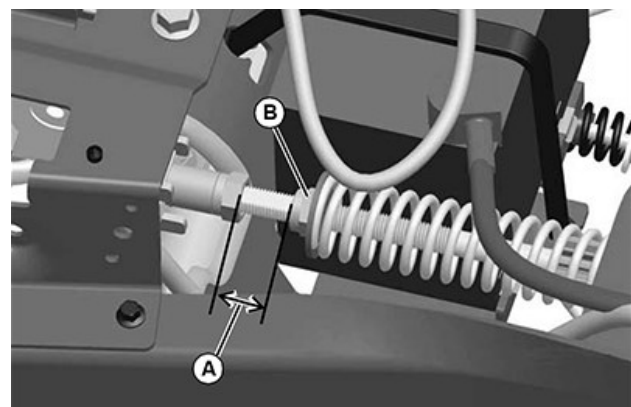
OUMX068,00014DA-19-26JUN18

Adjust Deck Lift Spring Tension

NOTE: Deck lift spring tension is adjusted at the factory. If the effort required to raise or lower the mower deck is not satisfactory, an adjustment may be necessary.

Check Spring Tension

- Park machine on a hard, level surface.
- Stop engine and lock park brake.
- Raise the mower deck to the transport position.
- Lift operator seat and lock into position.



TCAL45536—UN—08APR13

Installing

5. Measure length (A).

- Z994R Series Machines:

Machines without Material Collection System installed:

Deck	Recommended Factory Setting
60 inch	21 mm (0.8 in)
60 inch - Mulch on Demand	18 mm (0.7 in)
54 inch	43 mm (1.7 in)
72 inch	25 mm (1.0 in)

Machines with Material Collection System installed:

Deck	Recommended Factory Setting
60 inch	65 mm (2.6 in)
60 inch - Mulch on Demand	52 mm (2.0 in)
54 inch	87 mm (3.4 in)
72 inch	65 mm (2.6 in)

Adjust Spring Tension

NOTE: Do not over tension the deck lift spring. If the spring is compressed too tightly, the mower deck floats too freely.

Decrease deck lift spring tension if operating in rough terrain.

While looking from the 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.

SB31882,00004F6-19-17FEB21

Removing and Storing

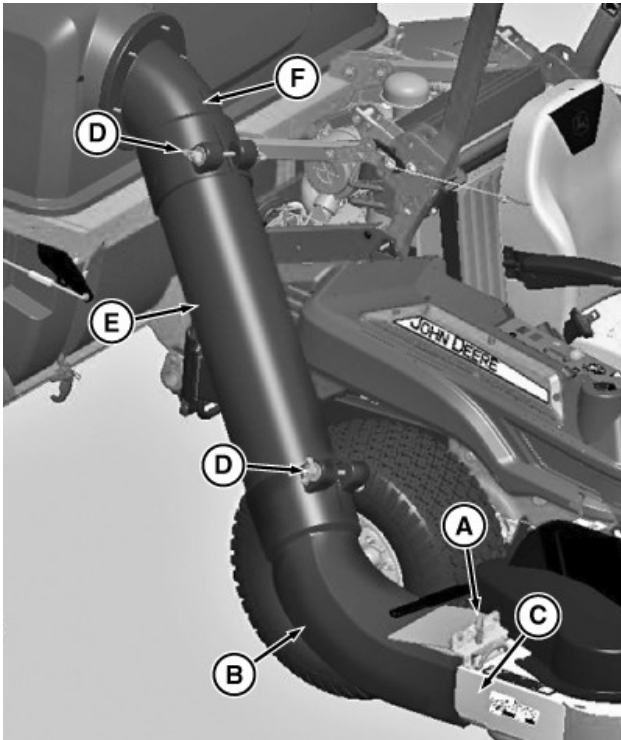
Removing and Emptying Hopper

CAUTION: Contents in hopper will cause unit to become heavy and unbalanced. Always empty hopper before removing unit from machine.

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

AP43109,000025B-19-16DEC15

Removing Chute



TC101543—UN—19FEB21

1. Pull upward on pin (A), then remove lower chute (B) from the blower outlet (C).
2. Loosen knob (D), then remove the hose (E) from upper chute (F).

SB31882,000053F-19-19FEB21

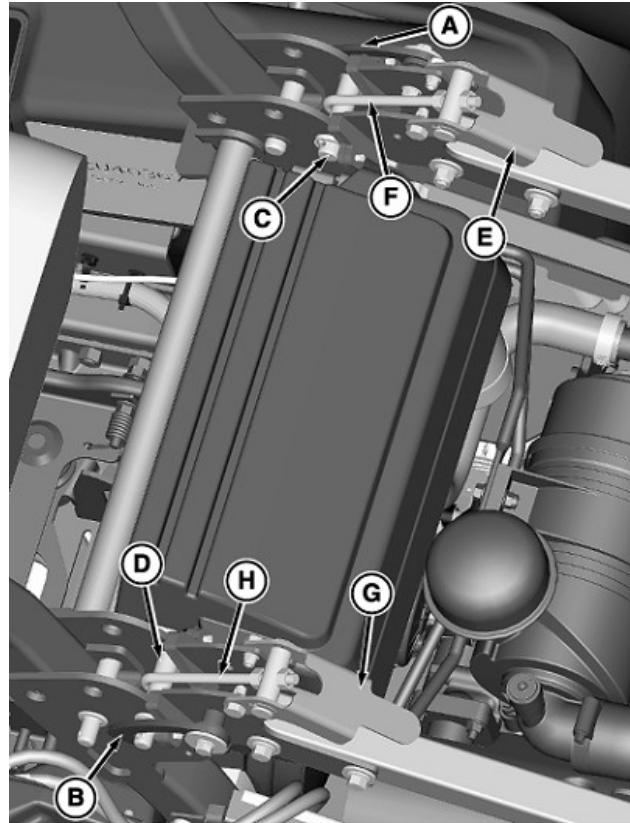
Removing Hopper

CAUTION: 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.

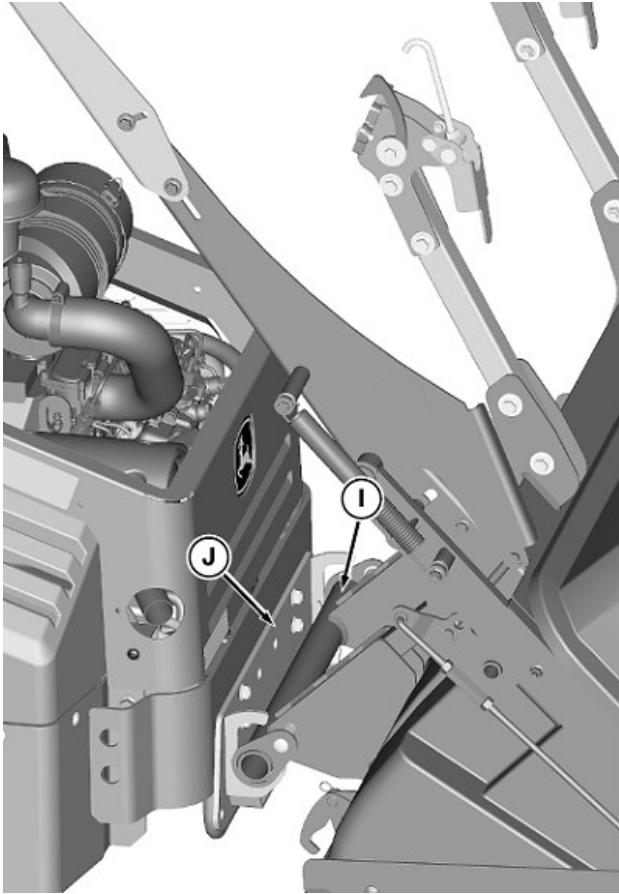
IMPORTANT: Allowing the hopper to contact abrasive surfaces can cause scratching.



TCT015735—UN—20MAR18

1. Make sure that the hopper door is latched closed and the temporary latches (A—B) are positioned over the M19 pins (C—D).
2. While standing on the right side of the machine, unlock the upper mount latch (E) and rotate the latch hook (F) to the rear.
3. Grip the hopper and rotate it toward the vehicle to unload the temporary latch (A). At the same time, rotate the latch to the rear so it is no longer over the M19 pin (C).
4. Move to the left side of the machine, unlock the upper mount latch (G), and rotate the latch hook (H) toward the rear.
5. Grip the hopper and rotate it toward the vehicle to unload the temporary latch (B). At the same time, rotate the latch to the rear so it is no longer over the M19 pin (D).
6. Pivot hopper assembly down to the ground.

Removing and Storing



TCT015738—UN—22MAR18

7. Lift hopper lower cross-tube (I) out of the lower mount (J) cradles.
8. Pull hopper assembly away from machine.
9. Remove hopper brackets.

CAUTION: When the attachment is removed, also remove any ballast that was added to the machine and reinstall bumper.

Use only attachments and accessories recommended by the manufacturer.

10. Replace bumper (If applicable).
11. Remove ballast.

OOU2005,000061E-19-12APR18

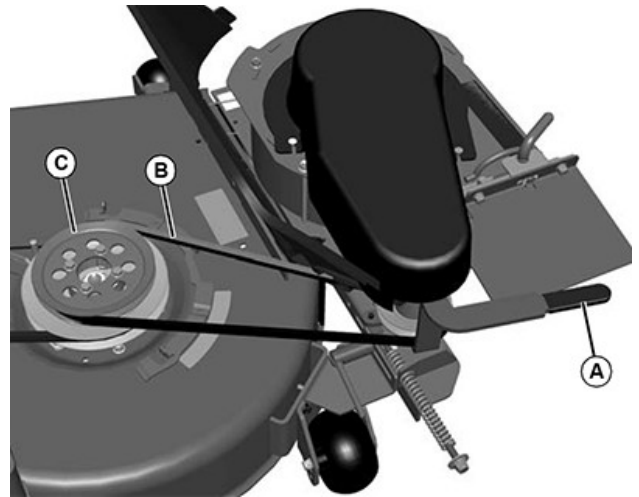
Removing Blower

1. Remove MCS deck belt shield.

CAUTION: 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).

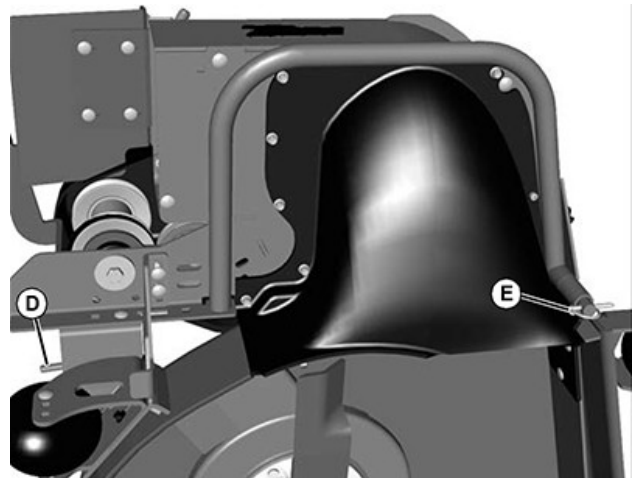
It is not necessary to remove the front mounting bracket from the mower deck when removing the blower.



TCAL45541—UN—08APR13

Parts have been removed for clarity.

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



TCAL45542—UN—08APR13

3. Loosen and remove mode change release handle (D) and supporting hardware.
4. Remove front lock pin (E).

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 MCS 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.
8. For Mod deck applications, install gate extension for

Removing and Storing

MCS gate. (See Gate Extension for MCS Gate in PREPARING VEHICLE section.)

AP43109,00001B6-19-05APR13

Removing Ballast

⚠ CAUTION: 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.

AP43109,00001B7-19-05APR13

Storing Attachment

IMPORTANT: Avoid machine damage, on dump from seat units, store attachment by placing it door side down.

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.

IMPORTANT: 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.

AP43109,00001B8-19-04JAN16

Operating

Air Flow for Blower

The blower and rear hopper need strong air flow from mower deck to hopper for best performance.

Follow these suggestions to maintain sufficient air flow:

- Keep blower, chutes, hopper top, screen, 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.

AP43109,0000261-19-09APR13

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.

AP43109,00001B9-19-05APR13

Unplugging Mower, Bagger, or Material Collection System

CAUTION: 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 hopper, or problems with blower assembly.

Removing Debris From Inspection Points:

CAUTION: 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.

AP43109,00001BA-19-16DEC15

Using the Dump From Seat Hopper

1. When the hopper is full, disengage PTO.

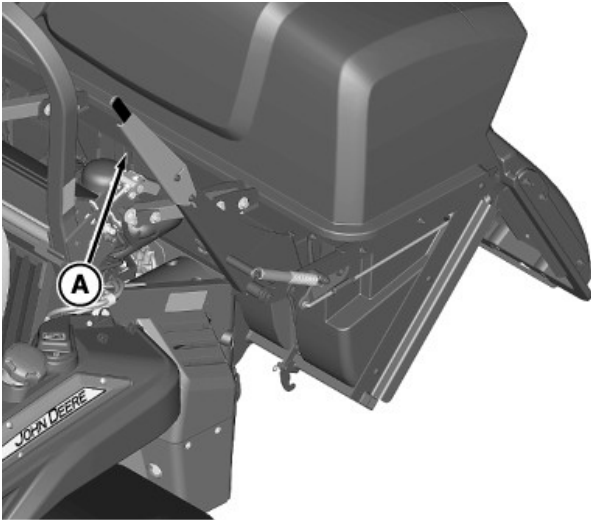
CAUTION: Visibility is restricted when backing up machine with MCS installed.

- Keep bystanders away from machine, especially when backing up.
- Look behind and around MCS before backing up machine.
- Stop machine on level ground when emptying MCS.
- Keep vehicle a safe distance away from the edge of drop-offs when unloading MCS.

2. Drive machine to a safe dump location.
3. Move motion control levers to the neutral lock position.
4. Lock park brake.

CAUTION: Fingers and hands can be pinched or crushed. Be aware of potential pinch points and keep hands away.

Operating



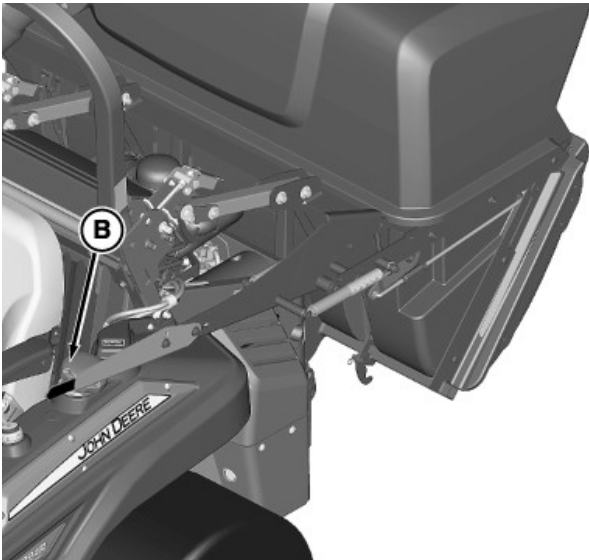
TCT015866—UN—21MAY18

Fully open position.

- Empty the hopper. Full hopper adds extra weight, which can overstress the hopper frame on rough roads.
- Make sure the hopper door is latched securely.

AP43109,0000265-19-09APR13

5. Lift door handle to fully open position (A).
6. Unlock park brake.
7. Move motion control levers to the neutral position.
8. Drive forward until the hopper door is clear of the pile of grass clippings.



TCT015867—UN—21MAY18

Fully closed position.

9. Close hopper door by lowering door handle to fully closed position (B).

OUC2005,000063F-19-21MAY18

Transporting

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

Service Intervals

Service Intervals

Daily - As Needed

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

Every 50 Hours

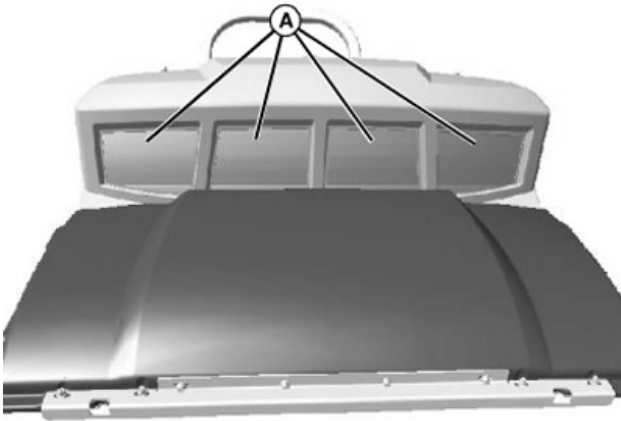
- Check belt tensions.
- Check idler and jacksheave bearings.
- Inspect housing for wear.
- Grease handle pivot bushing.
- Check hose for wear and deterioration. Replace if necessary.

OUO2005,000061D-19-26FEB18

Service

Cleaning Hopper Exhaust Screen

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



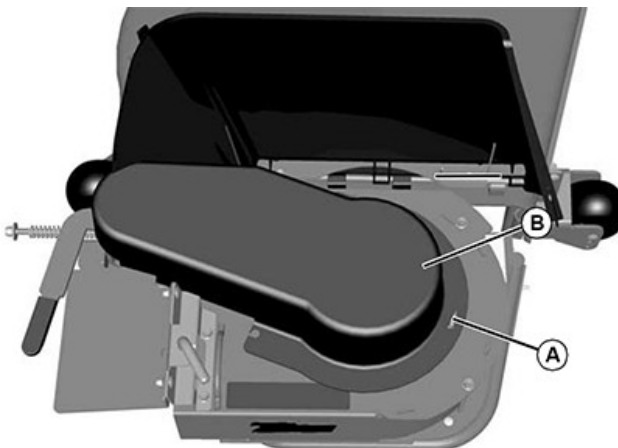
TCAL45620—UN—10APR13

3. Clean the four exhaust screens (A) with a brush or water from the outside of hopper. Screens are located on the inside of the hopper.
4. Close hopper and secure latch.

AP43109,0000267-19-09APR13

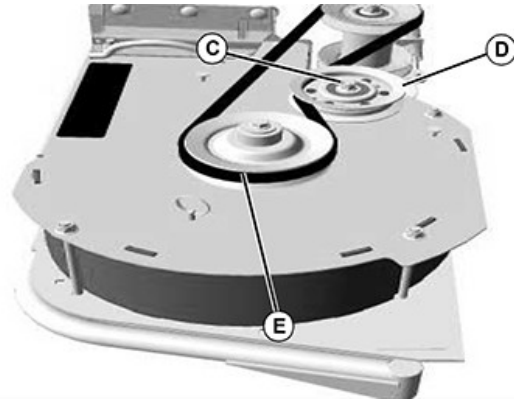
Removing Drive Belts

CAUTION: 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.



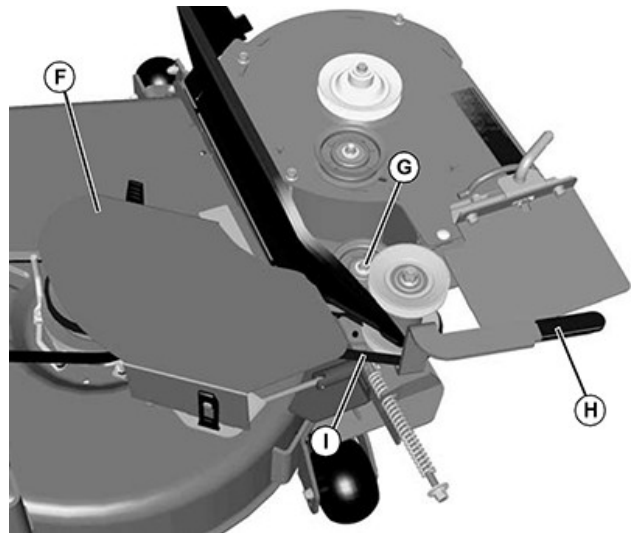
TCAL45546—UN—08APR13

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



TCAL45547—UN—08APR13

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



TCAL45548—UN—08APR13

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 (H) will be required to assist the removal of the belt.

5. Remove primary belt (I).
6. Remove all grass accumulation around belt, idler and sheaves.

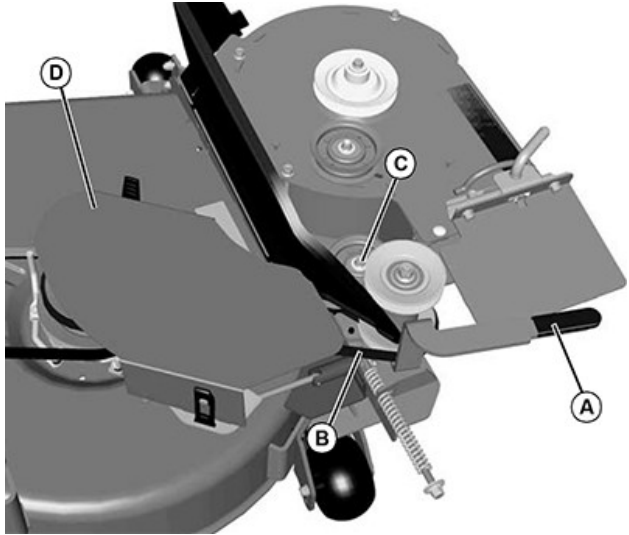
AP43109,00001C0-19-15APR13

Installing Drive Belts

CAUTION: 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.

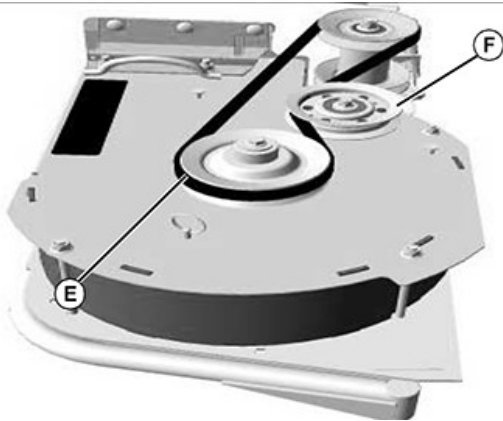
NOTE: Use the correct size sheave for your application. Sheaves should be included with the kit.

Service



TCAL45549—UN—08APR13

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



TCAL45550—UN—08APR13

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



TCAL45551—UN—08APR13

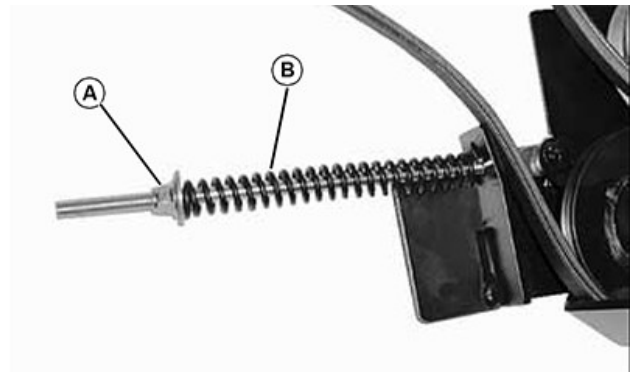
4. Install secondary belt shield (G).

AP43109,00001C1-19-05APR13

Adjust Primary Belt Tension

CAUTION: 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: Check tension of new belts after first five hours of operation, adjust if needed.



TCAL45552—UN—08APR13

1. With belt installed tighten nut (A) on tension rod until spring (B) length is to specification.

Specification

Tension Rod Length—Distance. . . . 150 mm +/- 10 mm (5.905 in. +/- 0.394 in.)

AP43109,00001C2-19-05APR13

Adjust Secondary Belt Tension

CAUTION: 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: Check tension of new belts after first five hours of operation, adjust if needed.

Service

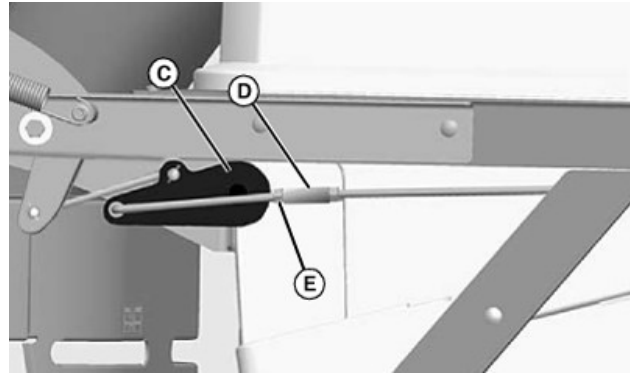


TCAL45553—UN—15APR13

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.

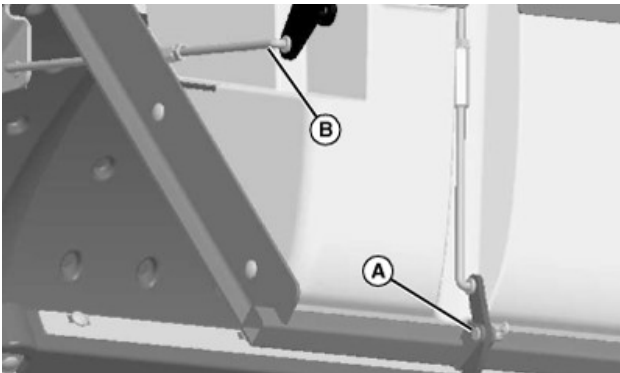
AP43109,00001C3-19-05APR13



TCAL45630—UN—10APR13

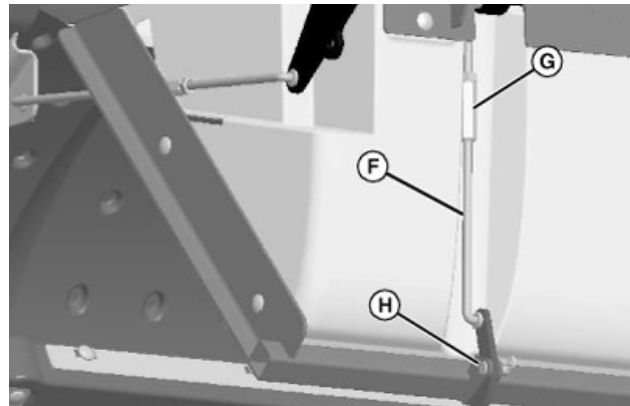
2. Fully close door by placing handle in down position and linkage over center of bellcrank (C).
3. Adjust left door link turnbuckle (D) until door will not close any further.
4. Actuate door by pushing down on the control shaft bellcrank by hand to check that force required to go over center is not too high. Lock jam nut (E).
5. Remove left door link from control shaft. Install right door link.
6. Adjust right door link as in steps 2 - 4.
7. Install left door link. Tighten jam nuts.

Adjusting Dump from Seat Hopper Linkage



TCAL45629—UN—10APR13

1. Disconnect both latch hook and rod assemblies from hopper frame by removing pivot pin (A). Allow latch hooks to hang from control shaft. Disconnect, but do not remove, right door link (B) from control shaft.



TCAL45631—UN—10APR13

8. With door closed, install both latch hook and rod assemblies (F) to frame. Adjust link turnbuckles (G) as necessary to get pivots to line up so that pivot pin (H) may be inserted. Install cotter keys.
9. Adjust latch hook link turnbuckles so that the hooks rotate up and just touch the door catch bracket. Tighten both jam nuts.

AP43109,000026C-19-09APR13

Troubleshooting

Using Troubleshooting Chart

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

MP47322,00F467B-19-13NOV18

Troubleshooting Chart

If	Check
Not All Grass Is Picked Up	Grass too wet. Throttle speed too slow. Travel speed too fast. Hopper is 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. Belt slipping.
Grass Clippings Trail Behind or Blow to the Side of Mower	Plugged chute. Problem with the blower. Hopper is full. Belt slipping.
Blower or Chute Plugs	Grass too wet. Throttle speed too slow. Travel speed too fast. Hopper is full. Hopper exhaust screen is dirty. Mower deck not leveled properly. Mower cutting height too low. Plugged or dirty mower deck. Belt slipping.
Grass Leaks from Hopper	Hopper door not latched. Hopper seal damaged or missing. Door/Hopper requires adjustment.

AP43109,000026D-19-16DEC15

Specifications

14 Bushel Dump From Seat Hopper

Rear Bagger Can Be Used with the Following Mower Decks	54, 60, 60 MOD, and 72
Front Ballast Recommendation	(See Installing Ballast)
Total Capacity	500 L (14 bushel)
Weight (Hopper Empty)	91kg (201 lb)

NOTE: Specifications and design are subject to change without notice.

SB31882,00004FC-19-15JAN21

Specifications

John Deere Quality Statement

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.

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 equipment model number.
- Number of hours on machine (if applicable).
- Your serial number which you recorded on the inside front cover of this manual.
- 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, visit the following website:

http://www.deere.com/globalhome/deerecom/global_home.page?CC=true

Select your country and then click on the Contact Us link.

SP66632,00043A7-19-10MAY17

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