

Material Collection System 9.6 Bushel Dump from Seat

(Serial No. 010001 -)



JOHN DEERE

OPERATOR'S MANUAL

Blower and Material Collection System

OMUC22470E ISSUE D0 (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

Contents

Product Identification..... 4

Safety Labels..... 5

Safety..... 8

Preparing Vehicle..... 10

Assembly..... 12

Installing..... 14

Removing and Storing..... 28

Operating..... 33

Service Intervals..... 35

Service..... 36

Troubleshooting..... 38

Specifications..... 39

John Deere Quality Statement..... 40

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.

Product Identification

Product Compatibility

- The Material Collection System is compatible with Z915E, Z920M, Z925M, Z930M, Z945M, Z950M, Z955M, Z955R, Z960M, Z930R, Z950R, Z970R models.

MG39705,00002CC-19-21JAN20

Record Identification Numbers

Hopper



APY30234—UN—22JAN20

Seat removed for photo clarity

Serial Number (010001 -)

If needed, contact an authorized service center for information on servicing and provide the product model and serial number.

Locate the serial number (A) for the attachment. Record the information provided in the following spaces.

DATE OF PURCHASE:

DEALER NAME:

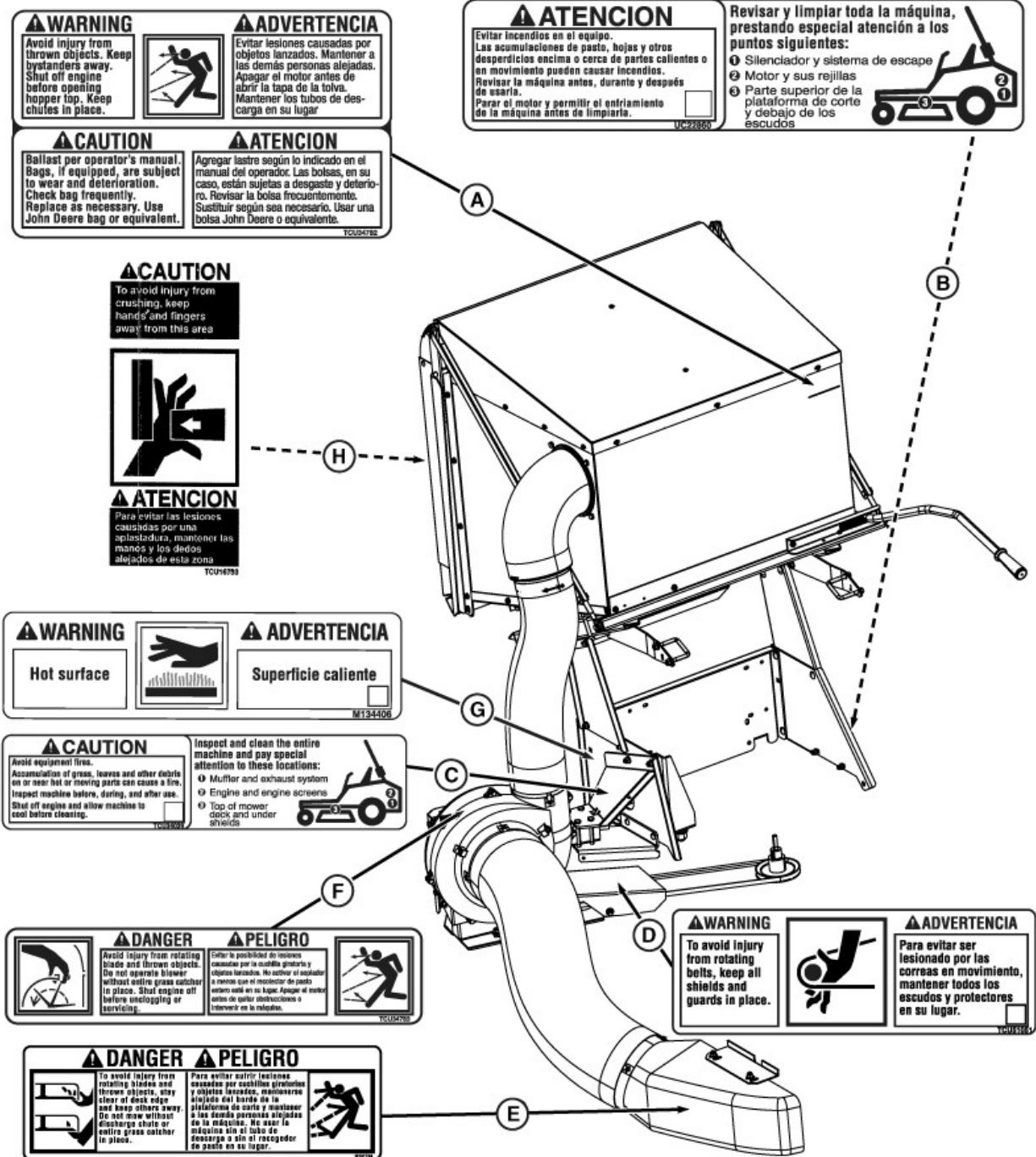
DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

MG39705,00002CD-19-24JAN20

Safety Labels

Safety Label Location



A—TCU34782 (WARNING/CAUTION)
 B—UC22860 (CAUTION)
 C—TCU34030 (CAUTION)
 D—TCU51051 (WARNING)

E—M131748 (DANGER)
 F—TCU34783 (DANGER)
 G—M134406 (WARNING)
 H—TCU16753 (CAUTION)

APY30233—UN—22JAN20

MG39705.00002E4-19-23JAN20

Safety Labels

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.

MX00654,00001FD-19-12SEP18

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

WARNING

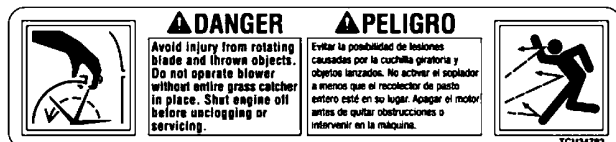


TCAL45468—UN—08APR13

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

WARNING



APY18501—UN—28MAR19

Hot surface.

SR99263,0000132-19-28MAR19

DANGER



APY18502—UN—28MAR19

To avoid injury from rotating blades and thrown objects, stay clear of deck edge and keep others away. Do not mow without discharge chute or entire grass catcher in place.

SR99263,0000133-19-28MAR19

CAUTION



APY18503—UN—28MAR19

Avoid equipment fires.

Accumulation of grass, leaves, and other debris on or near hot or moving parts can cause a fire.

Inspect machine before, during, and after use.

Shut off engine and allow machine to cool before cleaning.

Inspect and clean the entire machine and pay special attention to these locations:

1. Muffler and exhaust system.
2. Engine and engine screens.
3. Top of mower deck and under shields.

SR99263,0000134-19-02APR19

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

Safety

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.

OUMX068,00004E0-19-19DEC13

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

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.

OUMX068,00004E2-19-19DEC13

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

Preparing Vehicle

Checking Tire Pressure

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

AP43109,0000191-19-05APR13

Installing Proper Mower Blades

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

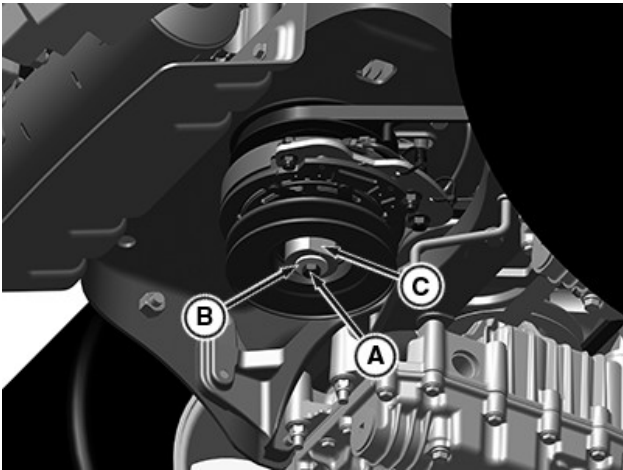
- For best performance, always use correct mower blade for job being performed.
- Always follow safety and service instructions in the machine operator's manual when changing mower blades.

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

AP43109,0000192-19-16DEC15

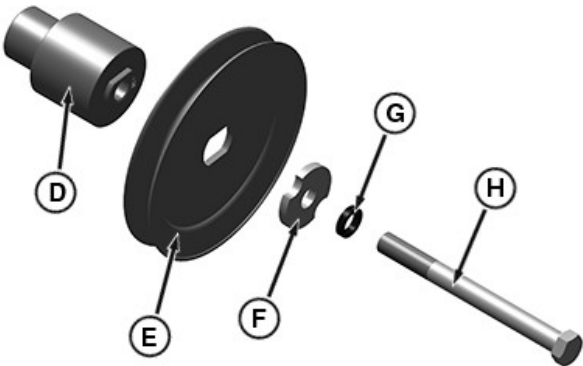
Install Pulley and Spacer

IMPORTANT: Avoid machine damage! Support clutch assembly during hardware removal so it does not fall.

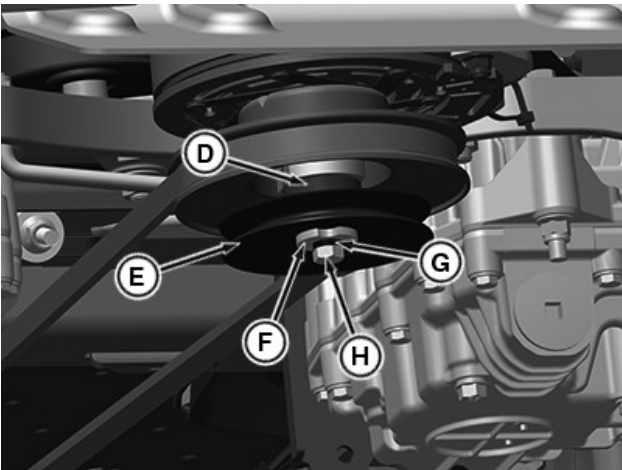


1. Loosen and remove the bolt (A), the washer (B), and the bushing (C).

APY15441—UN—18MAR19



APY15442—UN—18MAR19



APY15443—UN—18MAR19

2. Loosely assemble engine pulley bushing (D) and engine pulley (E) to PTO clutch pulley and fasten using clamp washer (F), lock washer (G), and hex bolt (H).

IMPORTANT: Avoid machine damage! Do not over tighten hex bolt.

3. Insert a screw driver through hole in engine pulley bushing (D) to hold it in place. Tighten hex bolt (H) to:

Specification

Hex bolt (H)—Torque. 74 N·m
(55 lb·ft)

MG39705,0000170-19-24MAY19

Installing Weight Bracket

Parts in Kit (Weight Bracket)

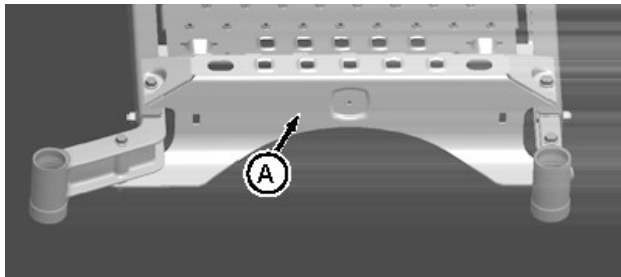
Qty.	Description
1	Bracket, Weight
2	Carriage Bolt, M12x50
2	Locknut, Flange
2	Backing Plate, Square

Preparing Vehicle

Qty.	Description
2	Backing Plate, 50 x 80 mm (2 x 3.1 in)
2	Screw, M12x130
2	Nut, M12, Flange, Prevailing Torque
2	Rod
4	Pin

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

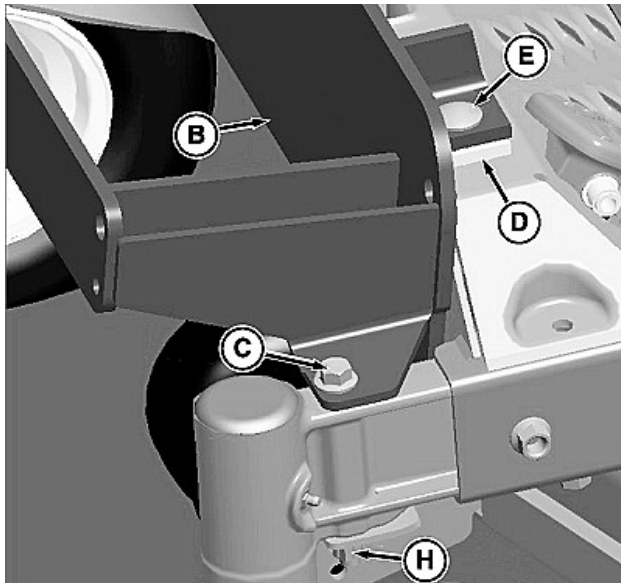
NOTE: Secure and support vehicle as required. Take all safety precautions.



TCT013245—UN—14DEC15

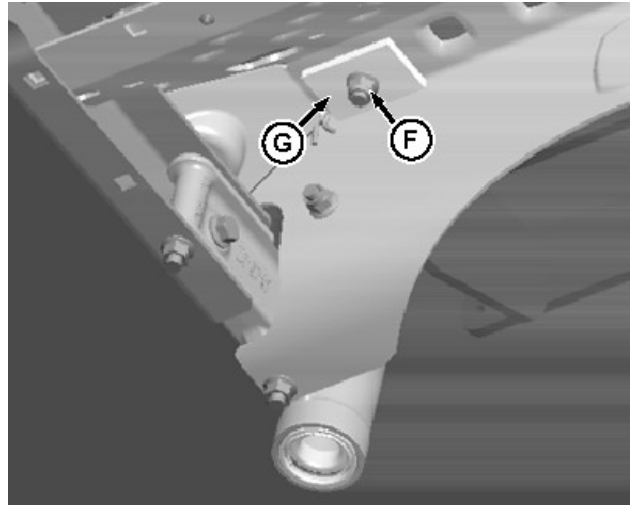
Front caster wheels not shown for photo clarity only.

2. Clean front cross-member (A) area of any debris.



TCT013110—UN—19MAR18

3. Center weight bracket (B) on cross-member.
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).

MX00654,0000343-19-18MAR19

Assembly

Hopper Parts List

Qty.	Description
1	Chassis Mount Weldment
1	Bracket, Hopper Base Frame
1	Support, Hopper Frame Left
1	Support, Hopper Frame Right
1	Left Mount Bracket
1	Right Mount Bracket
4	U-Bolt, 63.5 mm
1	Hopper Bottom Panel
1	Latch Weldment Kit
1	Bushing
1	Latch
1	Washer, 12 mm (ID)
1	Hex Screw, 10 x 32 mm
11	M10 Nut (8.8 mm thickness)
39	M6 Bolt (12.7 mm length)
54	Flange Nut, 1/4 in-20
1	Hopper Side Panels
1	Dust Seal Kit
1	Lift Handle Cradle Mount
1	Hopper Doorway Weldment
17	Clip Nut, 1/4 Short
13	Clip Nut, 1/4 Long
1	Top Screen
18	Washer, 7.13 mm (ID)
31	Screw, Button Head Phillips, 1/4 x 3/4
1	Hopper Top Panel
1	Hopper Screen Support
2	Washer, Threaded 1/4
1	Hopper Door Weldment
1	Hopper Door Support
1	Hopper Door Panel
1	Hopper Dust Diverter, Left
1	Hopper Dust Diverter, Right
1	Hopper Dust Diverter
1	Hopper Dust Flap, Left Brace
1	Hopper Dust Flap, Right Brace
1	Hopper Dust Flap
1	Hopper Dust Flap, Brace
2	M6 Bolt (19 mm length)
10	Screw, Countersunk Phillips 1/4 x 3/4
4	Flange Nut, 1/4 in-20
1	Hopper Door
2	Pivot Pin
2	Washer, 16.6 mm (ID)
2	Hairpin
1	Inlet Support Ring
1	Debris Deflector
4	Tooth Washer, 8.4 mm
2	Screw, 8 x 32 mm
2	Flange Nut, 8 mm
2	Screw, 8 x 13 mm

1	Inlet, 90° Inlet
1	Clamp, 6 in Diameter Wire
1	Tube, 33 in Long, 6 in Diameter
1	Lift Handle Weldment
1	Lift Handle Grip
1	Lift Handle Spring
1	M10 Screw, 51 mm Length
1	Latch Rod Assembly
2	Door Linkage Bar
2	Door Linkage Screw
2	Door Linkage Nut
2	Door Linkage Pin
4	Pin Fastener
1	Hopper Bump Stop
14	Bolt, M10 x 25
14	Locknut, M10 (10.7 mm thick)
6	Locknut, M6

MG39705,00002CE-19-24JAN20

Mounting Parts List

Qty.	Description
1	Left Frame Bracket
1	Right Frame Bracket
1	Lower Hose / 9" x 40"
1	Upper Hose / 6" x 33"
1	Hardware Bag / Mount Kit
1	Hardware Bag / Wiring Harness
1	Rear Frame Bracket
1	Blower Cone Assy. w/ Snap Fasteners / 9"
1	Hardware Bag / Engine Pulley
1	Idler Mount Assy.
1	Belt Guard Bracket
1	Drive Assy. w/ Snap Fasteners / 4-Blade
1	Top Bracket / Mount Arm
1	Bottom Bracket / Mount Arm
1	6" Hose Clamp
1	Frame Gusset
1	Receiver Tube Assy. / Mount Arm
1	Weight Kit

MX00654,00002E0-19-01APR19

Boot Kit Parts List

48 inch and 54 inch Side Discharge Deck

Qty.	Description
1	Boot with Snap Fasteners
1	Boot Plate
1	Hardware Bag

Assembly

60 inch and 72 inch Side Discharge Deck

Qty.	Description
1	Boot with Snap Fasteners
1	Boot Plate
1	Hardware Bag

48, 54 and 60 inch MOD Deck

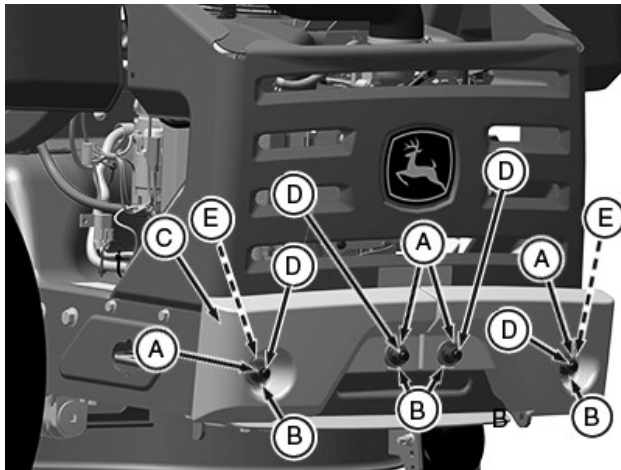
Qty.	Description
1	Boot with Snap Fasteners
1	Discharge Bracket 48" & 54"
1	Discharge Bracket 60"
1	Boot Plate
1	Boot Plate Adapter
1	Hardware Bag

MX00654,00002E2-19-01APR19

Remove Rear Bumper Weights (If Equipped)

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

⚠ CAUTION: Avoid Injury! Bumper weighs approximately 90 lb. John Deere recommends that two people remove the bumper from a machine.



APY16215—UN—10JAN19

Remove four M12 locknuts (A) one at a time, along with four washers (B).

3. Remove rear bumper (C).
4. Remove four studs (D) along with two spacer (E), and additional nut on rear of frame.
5. Store weights in a safe dry place for later use when MCS is removed from machine.

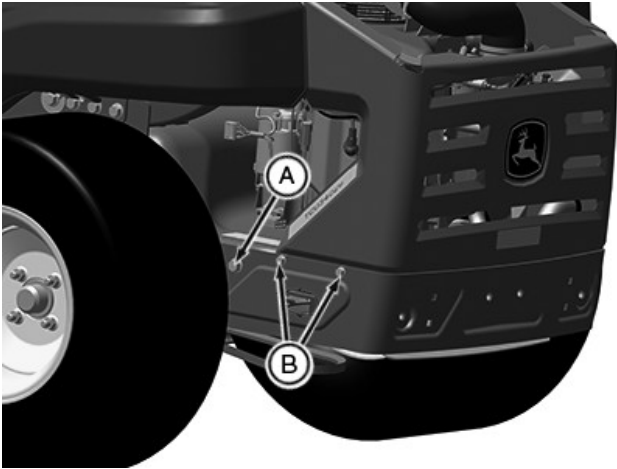
SR99263,00000F5-19-10MAR19

Installing

Install Frame Assembly

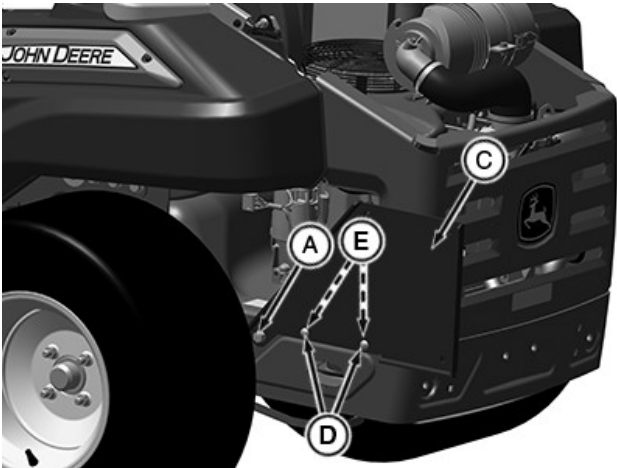
Install Left Frame Bracket

NOTE: Store parts for later use when MCS is removed.



APY15446—UN—18MAR19

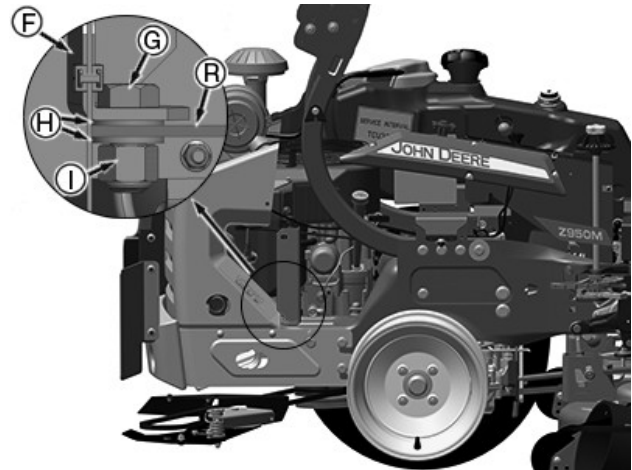
1. Remove M12 x 30 metric bolt (A) and screws (B) from the left side of the rear bumper of the machine.
2. Align the bottom bolt holes of the left frame bracket on the left side of the rear bumper.



APY16220—UN—20MAR19

3. Loosely secure the left frame bracket (C) using the pre-existing M12 x 30 metric bolt (A), carriage bolts (5/16 in-18 x 1) (D), and flange lock nut (E).

Install Frame Gusset Installation



APY18504—UN—01APR19

1. Position the frame gusset (F) on the chassis of the machine as shown.

NOTE: The next installation will secure the top of the frame gusset.

2. Align bolt hole of the frame gusset to the bolt (G).
3. Loosely secure the frame gusset (F) and plate (R) to the chassis of the machine using bolt (G), flat washers (H), and nut (I).

Install Right Frame Bracket

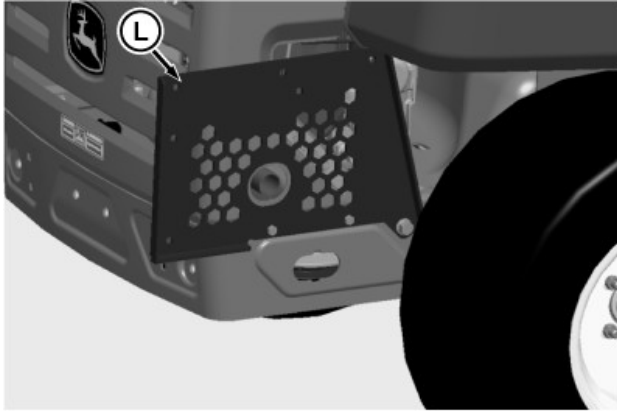
NOTE: Store parts for later use when MCS is removed.



APY15447—UN—19MAR19

1. Remove the M12 x 30 metric bolt (J) and screws (K) from the right side of the rear bumper of the machine.
2. Align the bottom bolt holes of the right frame bracket on the right side of rear bumper.

Installing



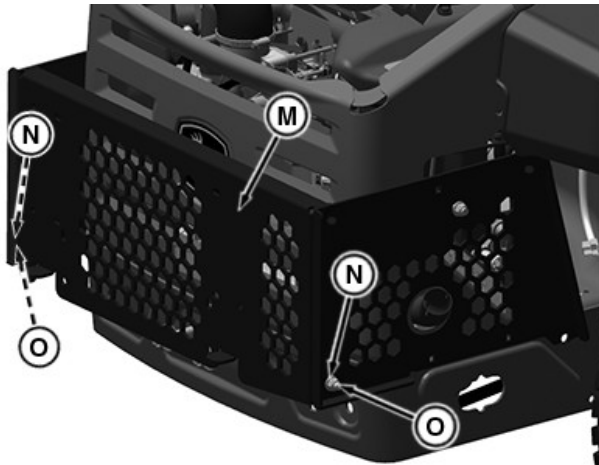
TC100912—UN—30JUN19

- Loosely secure the right frame bracket (L) using the pre-existing M12 x 30 metric bolt (J).

Install Rear Frame Bracket

- Position and align the bolt holes on either side of the rear frame bracket on the left and right frame bracket.

NOTE: Make sure that the bottom tabs of the rear frame bracket are pointing away from the mower.

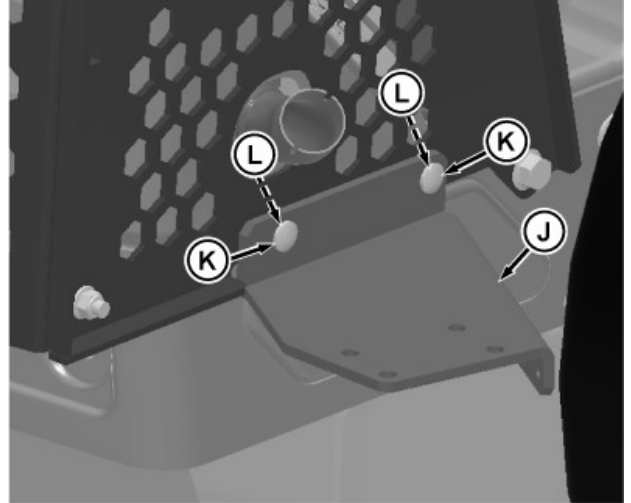


APY30213—UN—02MAR20

- Secure the rear frame bracket (M) using carriage bolts (O) and flange locknuts (N) on both the bottom left and bottom right holes. Do not install the hardware at the top holes.

Install Bottom Bracket / Mount Arm

- Align the bolt holes of the bottom bracket / mount arm to the bottom bolt holes of the right frame bracket.



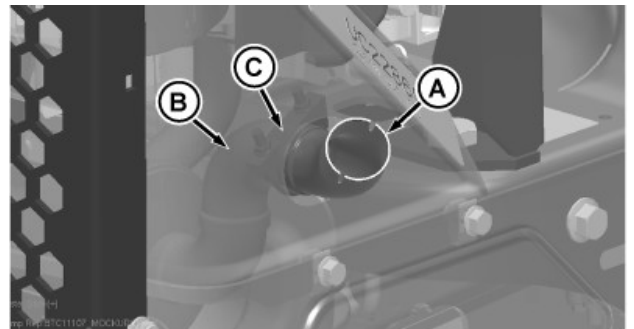
TC100918—UN—30JUN19

- Loosely secure the bottom bracket / mount arm (J) by using carriage bolts (K) and flange lock nuts (L).

Install Exhaust Diverter

NOTE: Make sure to use correct side of the exhaust diverter because each end is a different size based on the mower exhaust size.

Position diverter through the mount arm assembly to ensure exhaust blows to the rear and is not facing the PTO assembly or the ground. Make sure that the diverter is centered between, and not resting on the top or bottom mount arms.



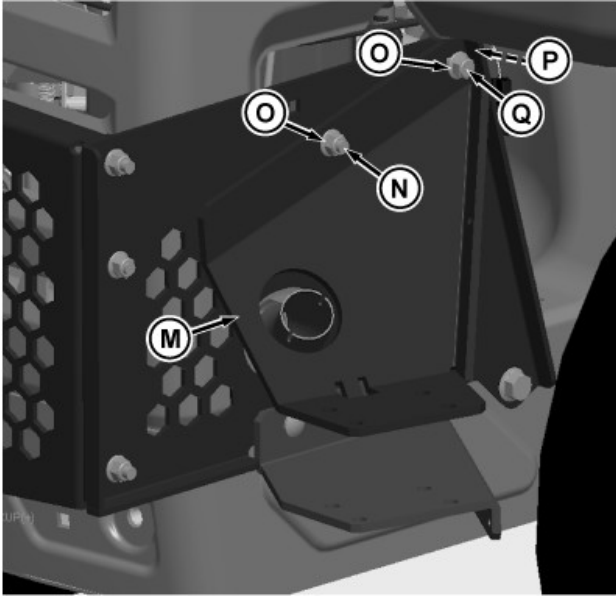
TC100921—UN—30JUN19

- Attach exhaust diverter (A) to the engine exhaust pipe (B).
- Loosely secure the exhaust diverter (A) using clamp kit (C).

Install Top Bracket / Mount Arm

- Align the bolt holes of the top bracket / mount arm to the top bolt holes of the right frame bracket.

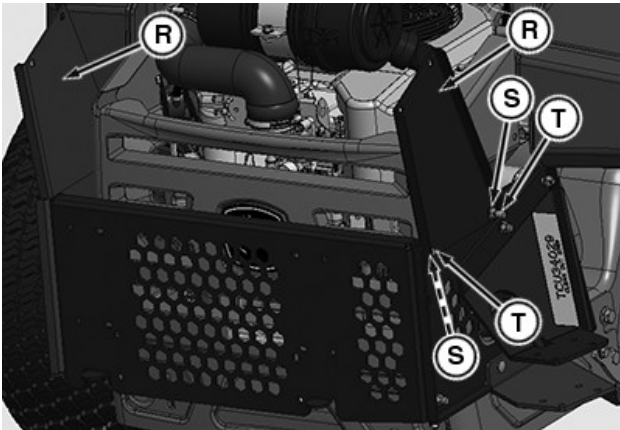
Installing



TC100919—UN—30JUN19

- Loosely secure the top bracket / mount arm (M) by using carriage bolt (N), carriage bolt (Q), and flange lock nuts (O).
- Loosely secure the frame gusset (P) along with the right frame bracket and top bracket / mount arm (M).

Install Support Leg Uprights



APY30214—UN—01JAN20

- Align support legs (R) on the outside of the left and right frame brackets.
- Secure the support legs (R) using two bolts (T) and two nuts (S) on each leg.

Tighten Hardware

Tighten hardware in the following order:

- Left frame bracket
- Right frame bracket
- Bottom bracket / mount arm
- Top bracket / mount arm
- Frame gusset to:

Specification

Frame Gusset Bolt—Torque. 360 N·m (266 lb·ft)

6. Rear bracket

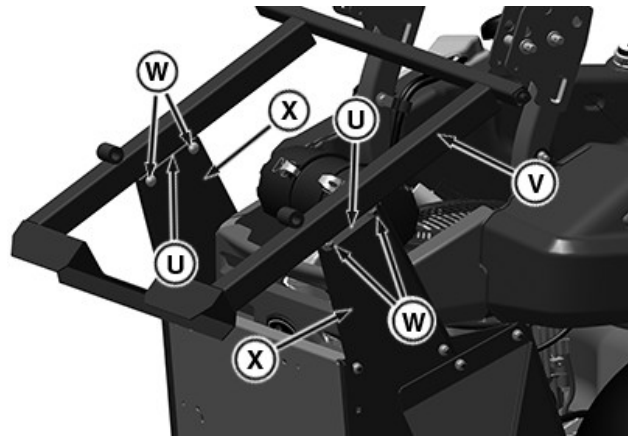
IMPORTANT: Before tightening, rotate exhaust diverter so that tip is centered in the top bracket / mount arm cutout and is aiming exhaust outwards and not directly at PTO assembly or collection bags.

7. Exhaust diverter clamp kit

8. Support leg uprights

MG39705,00002CF-19-24JAN20

Install Main Dump-From-Seat (DFS) Frame

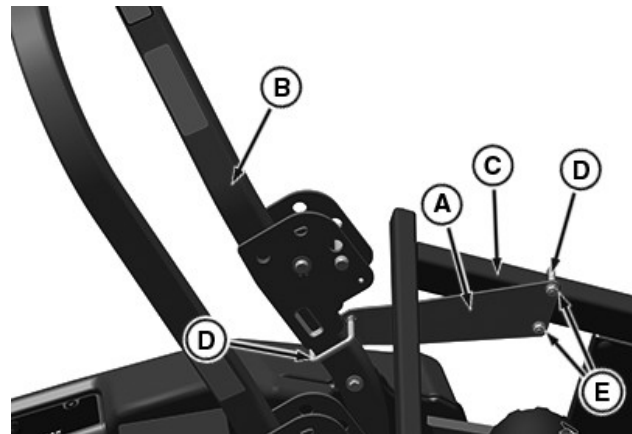


APY30215—UN—01JAN20

Align the brackets (U) on the underside of the frame (V) on top of the support leg uprights (X) and secure with bolts (W) and locknuts.

MG39705,00002D0-19-28FEB20

Install Main Frame Brace



APY30216—UN—01JAN20

- Secure the front of the Main DFS Frame brace (A) to the ROPS (B) using U-bolt (D) and nuts.

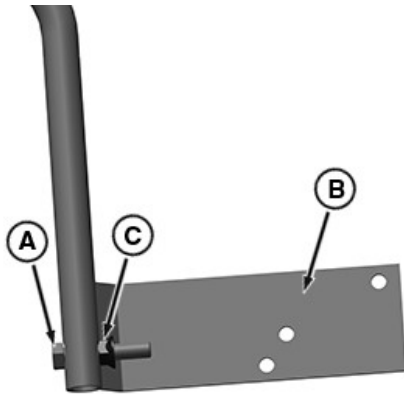
Installing

- Secure the rear of the Main DFS Frame brace (A) to the Main DFS Frame (C) using U-bolt (D) and nuts (E).
- Repeat the proceeding steps for the left side frame base.

MG39705,00002D2-19-21JAN20

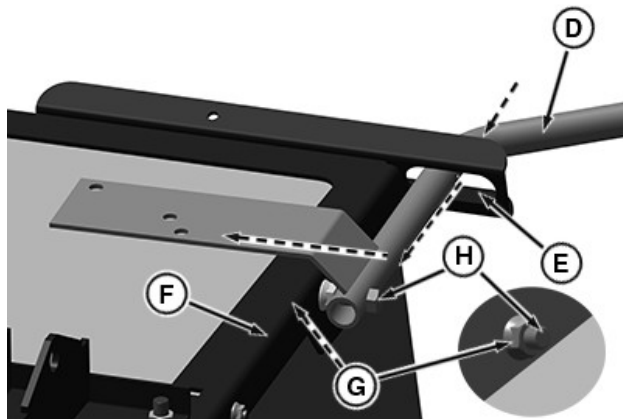
Install Lift Handle

- Turn the hopper assembly upside down with assistance from another person.



APY30217—UN—06JAN20

- Insert the bolt (A) into the lift handle (B) and loosely secure it with flange nut (C) upside down, as shown.



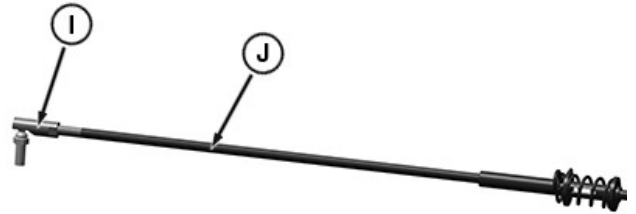
APY30218—UN—06JAN20

- Slide and insert the lift handle (D) through the slot on the handle mount bracket (E) into the hopper frame (F), as shown. Secure using flange nut (G) inside the hopper on the bolt (H).
- Test the movement of the handle (D), which should have full range of movement in the slot (E). If it does not have a full range of movement then adjust the nut (C) (from step 2) to achieve the movement. Tighten the fasteners.

Specification

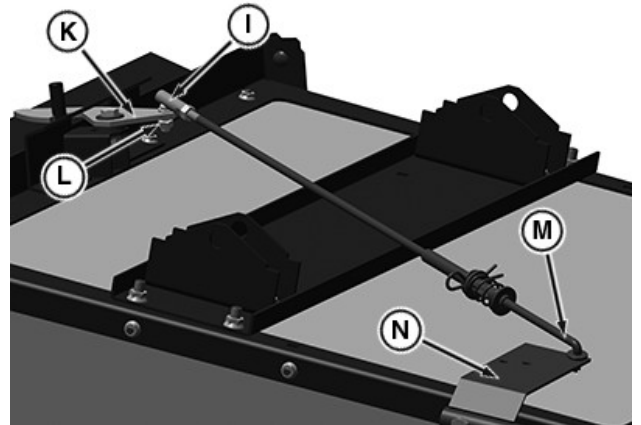
Flange Nut (G)—Torque. 27 N·m
(20 lb·ft)

- Installing the latch rod:



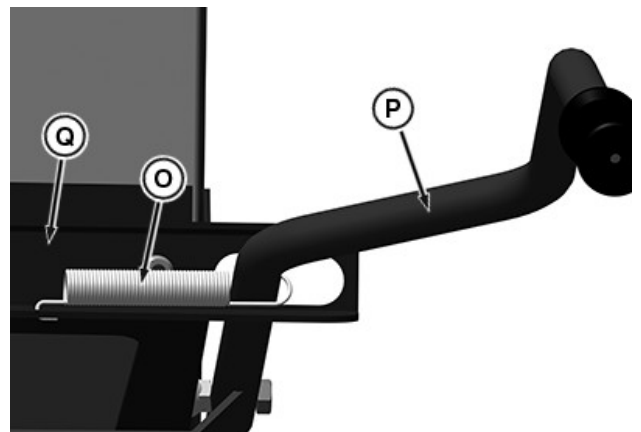
APY30220—UN—06JAN20

- Fasten the ball joint (I) to the end of latch rod (J). Tighten the ball joint to halfway down the threads on the latch rod.



APY30219—UN—06JAN20

- Attach the ball joint (I) to the latch hook (K) and secure it with hex nut (L) and lock washer.
- Attach other end (M) of the latch rod to the lift handle (N).

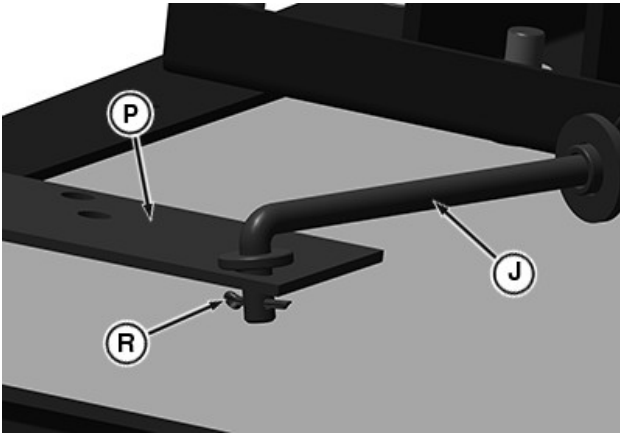


APY30221—UN—06JAN20

- Attach one end of the spring (O) to the lift handle (P) and the other end to the handle mount bracket (Q).
- Adjust the ball joint (I) (from step 5) up and down on

Installing

the latch rod (J) threads until the latch hook (K) closes completely. Attach one end of the spring (O) to the lift handle (P) and the other end to the handle mount bracket (Q).



APY30222—UN—06JAN20

8. After adjusting the latch hook (K) (from step 5), secure the latch rod (J) to lift handle (P) with spring locking pin (R).

MG39705,00002D3-19-27JAN20

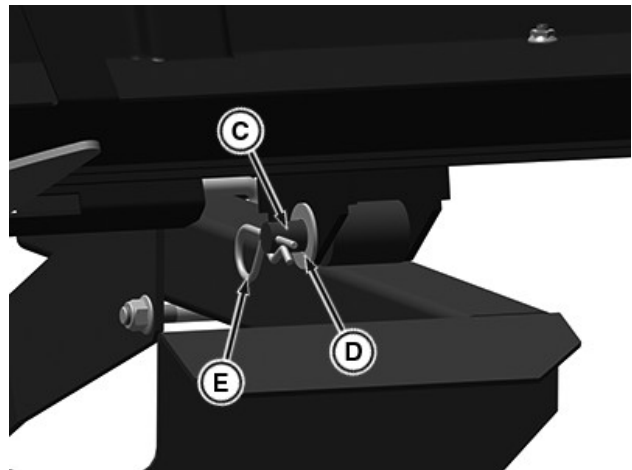
Install Hopper

NOTE: Get assistance from another person in the installation of the main DFS frame.



APY30224—UN—06JAN20

1. Lower the DFS hopper (A) onto the pivots (B).



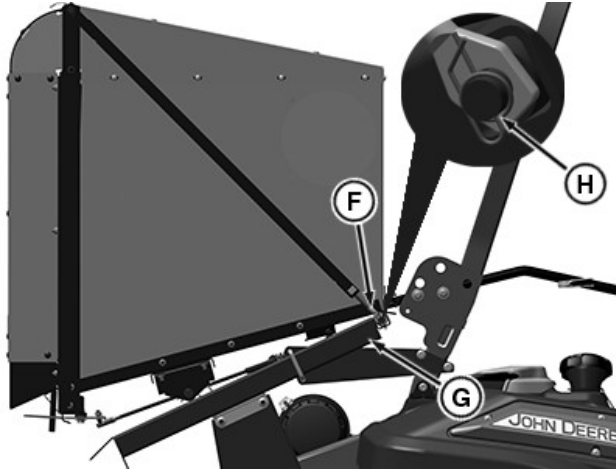
APY30225—UN—06JAN20

Right Side Pivot is Shown

2. Insert the pivot pin (C) securing with spring locking pin (E) and washer (D). Repeat the same for the left side pivot.

NOTE: Insert the pivot pins from the outer side to the inner side.

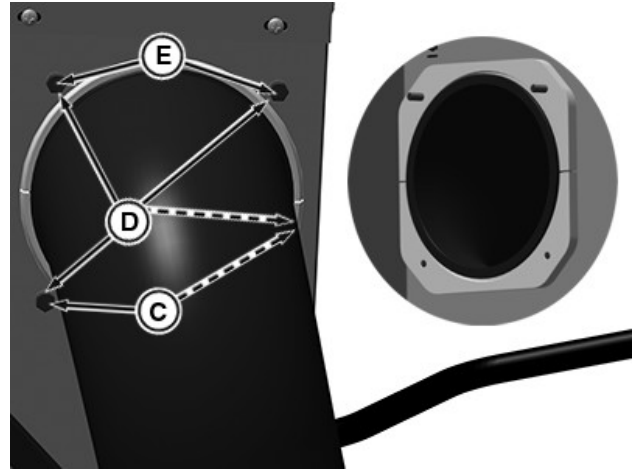
Installing



APY30226—UN—06JAN20

3. Attach the bottom ends of the linkages (F) to the main frame (G) by using cotter pins (H).

MG39705,00002D5-19-28FEB20

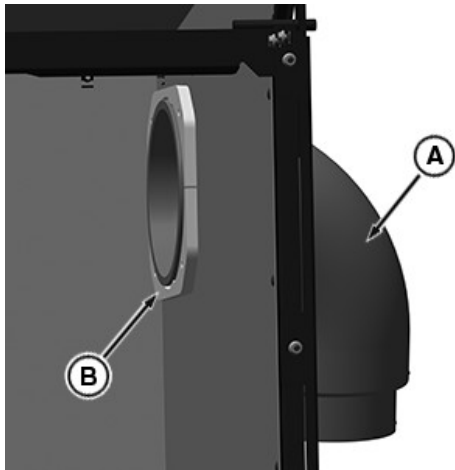


APY30228—UN—06JAN20

Both Inside and Outside Hopper View is Shown

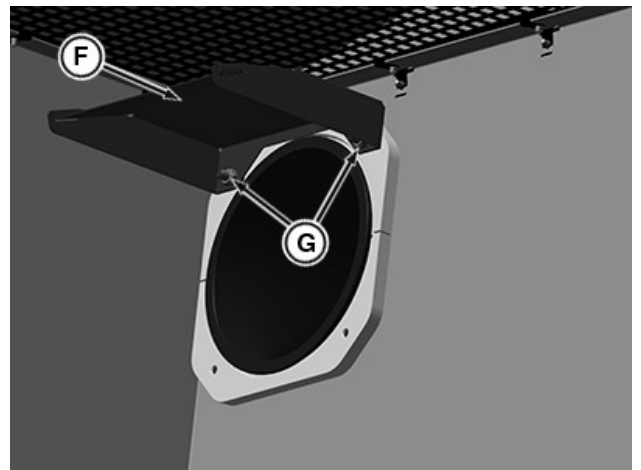
2. Secure the inlet rings on the hopper with two bolts (C) and washers (D) in the bottom two holes. Install the bolts (E) in the top holes with washers (D).

Installation of Inlet, Inlet Ring, and Debris Deflector



APY30227—UN—06JAN20

1. Open the hopper door. Slide inlet (A) into the inlet hole. Attach the inlet ring (B) on the grooves of inlet (A) inside the hopper.



APY30229—UN—06JAN20

3. Install the debris deflector (F) on top bolt threads. Fasten them by using nylock nuts (G).

Specification

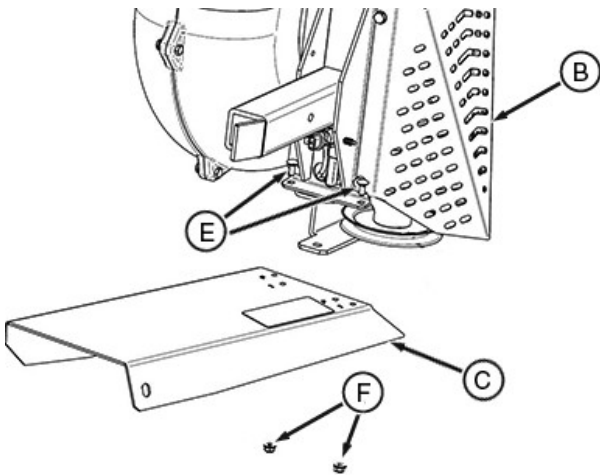
Nylock Nuts (G)—Torque. 13.5 N·m
(10 lb·ft)

MG39705,00002D4-19-27JAN20

Installing

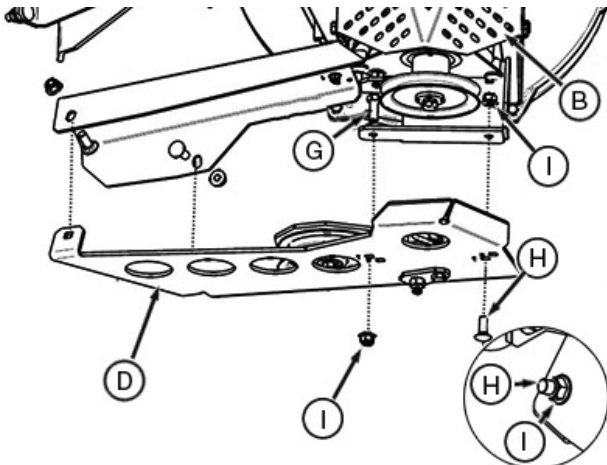
Install Blower Drive Assembly

Install PTO Drive



APY16252—UN—22JAN19

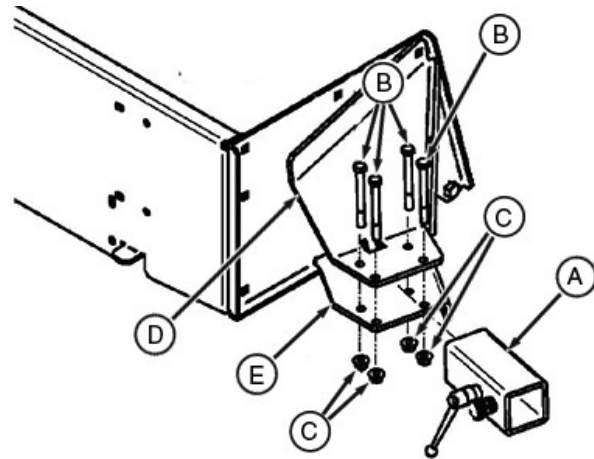
1. Assemble the belt guard (C) to the drive assembly (B) loosely, by aligning the holes designated with 'P' and using two carriage bolts (E) and two flange lock nuts (F).



APY16253—UN—31JAN19

2. Assemble the idler mount assembly (D) to the drive assembly (B) loosely by aligning the holes designated with 'P' and using one cap screw (G) (notice direction of bolt), one carriage bolt (H) (notice direction of bolt), and two flange lock nuts (F).
3. Secure the idler mount assembly (D) to the belt guard (C) using two carriage bolts (H) and two flange lock nuts (I).
4. Tighten all six fasteners in order of initial assembly once the belt guard (C) and idler mount assembly (D) are assembled.

Install Mount Arm/Tube Assembly

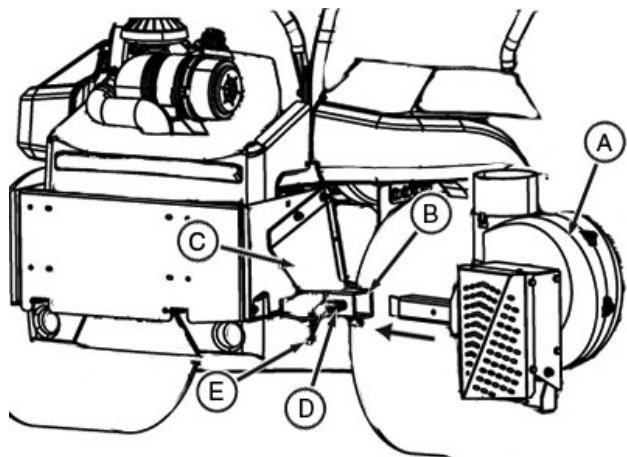


APY16233—UN—16JAN19

1. Position the Mount Arm / Tube Assembly (A) between the Top bracket (D) and Bottom bracket (E) with the tube assembly pushed and resting on the tab of the top bracket.
2. Secure the Mount Arm / Tube Assembly (A) by using four hex head cap screw (B) and four Nylock nuts (C).

Install PTO Drive Assembly and Belt

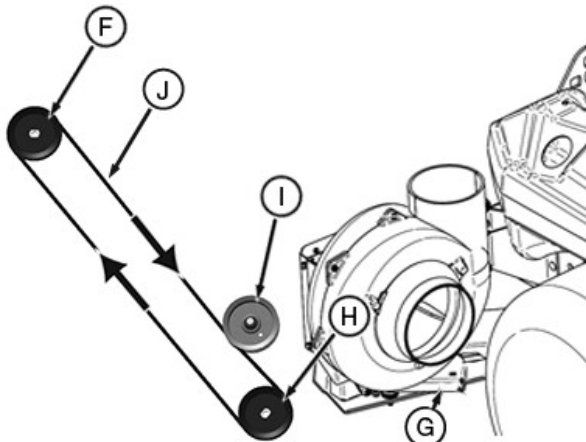
CAUTION: John Deere recommends that someone assist during this step.



APY16216—UN—11JAN19

1. Insert the drive assembly (A) into the receiver tube (B).
2. Slide mount arm assembly (C) until the knob plunger pin (D) engages.
3. Turn lock handle (E) clockwise until tight.

Installing



APY014156—UN—11JAN19

4. Place belt (J) around the engine drive pulley (F) on the underside of the mower.
5. Route the belt through the inside of the idler mount assembly (G).
6. Relieve tension from the idler arm (G) by inserting a screwdriver into the idler arm and rotating it clockwise.

IMPORTANT: Avoid machine damage! Be sure that belt does not rub on the belt shield. If belt rubs, see Adjusting Blower Drive Belt Clearance in Service section.

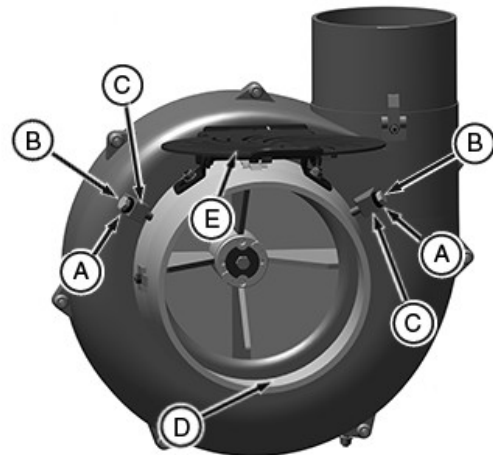
7. Clear the idler arm (G) of the belt (J). Once it is clear, place the belt end onto the drive assembly pulley (H) and slowly release the idler arm to engage the belt fully.
8. Adjust Blower drive belt clearance. (See Adjusting Blower Drive Belt Clearance in Service section.)

CAUTION: Not adjusting blower drive belt clearance can result in a broken belt.

MG39705,00002E2-19-28FEB20

Install Blower Inlet Cone

Install Blower Cone



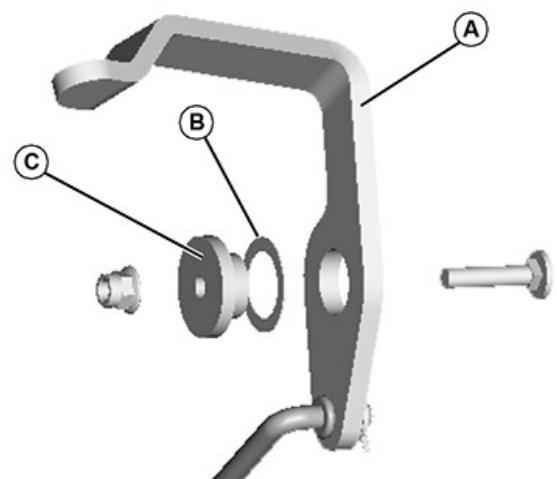
APY16244—UN—29MAR19

1. Thread the lock nut (A) onto each end of the cap screw (B).
2. Partially thread cap screw (B) into each of the two threaded bosses (C) on the blower housing.
3. Place the blower cone (D) so the safety cover (E) is facing up as pictured and tighten the cap screws (B) evenly against the cone.
4. Tighten the lock nuts (A) against the threaded boss (C).

SR99263,00000FE-19-26MAR19

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

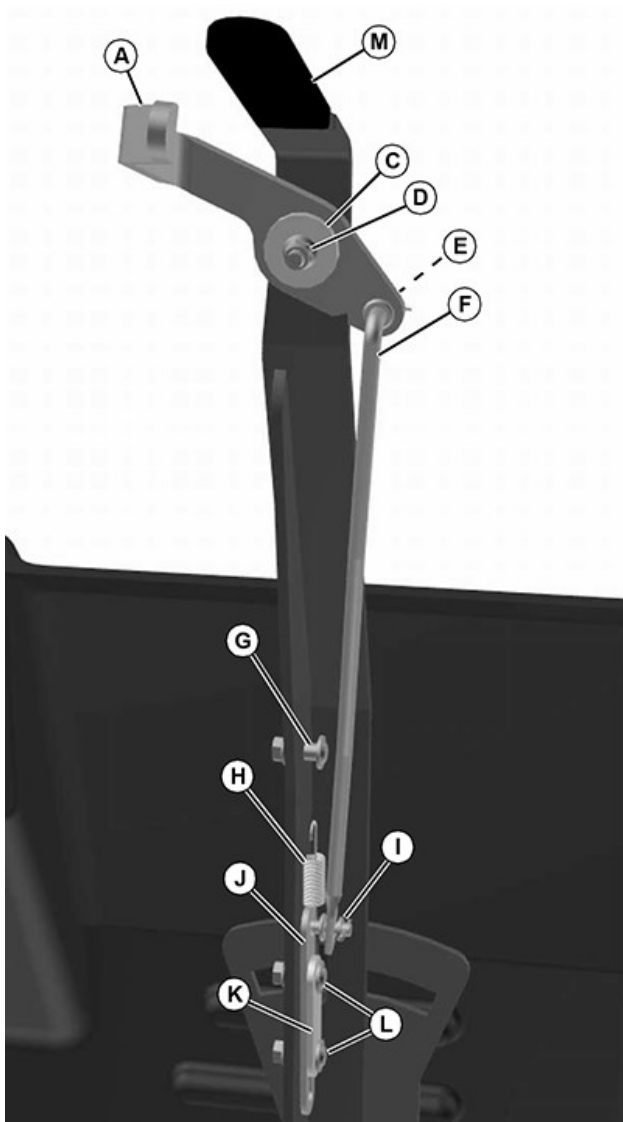
1. Park machine safely. (See Parking Safely in the SAFETY section.)



TCAL45482—UN—08APR13

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

Installing



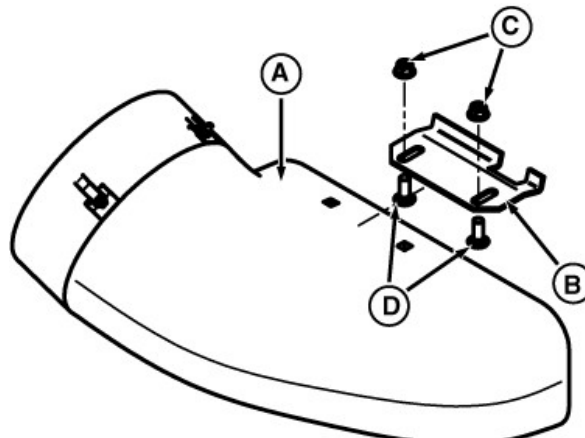
TCAL45483—UN—08APR13

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

Install Boot Kit

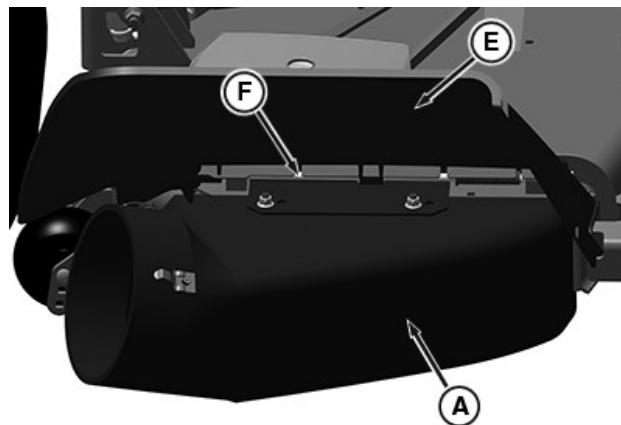
Install Boot Kit (48 and 54 in Side Discharge Decks)



APY15469—UN—28MAR19

1. Secure the boot plate (B) to boot (A) using snap fasteners (C) and Nylock nuts (D).

NOTE: Insert the bolts from the inside so that the threads are on top of the boot. This prevents grass clippings from collecting on the bolt threads.



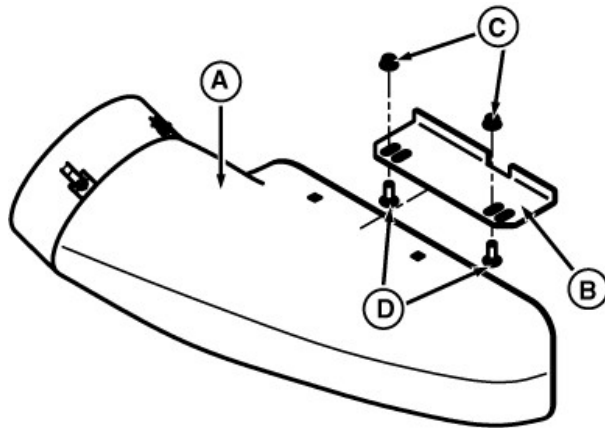
APY15445—UN—19MAR19

2. Lift the grass deflector (E) and slide the boot kit (A) under the rod (F).

NOTE: Make sure to close any gaps between the boot and the mower deck by adjusting the position on the boot in the boot plate slots.

Installing

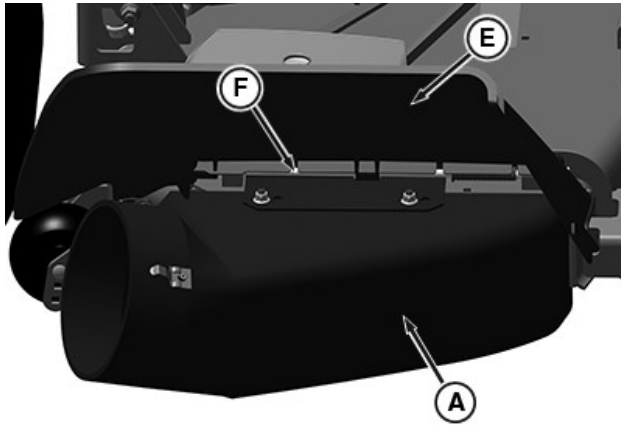
Install Boot Kit (60 and 72 in Side Discharge Decks)



APY15470—UN—28MAR19

1. Secure the boot plate (B) to boot (A) using snap fasteners (C) and Nylock nuts (D).

NOTE: Insert the bolts from the inside so that the threads are on top of the boot. This prevents grass clippings from collecting on the bolt threads.

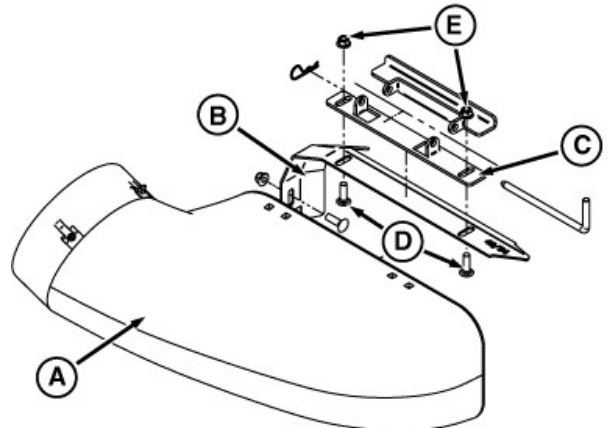


APY15445—UN—19MAR19

2. Lift the grass deflector (E) and slide the boot kit (A) under the rod (F).

NOTE: Make sure to close any gaps between the boot and the mower deck by adjusting the position on the boot in the boot plate slots.

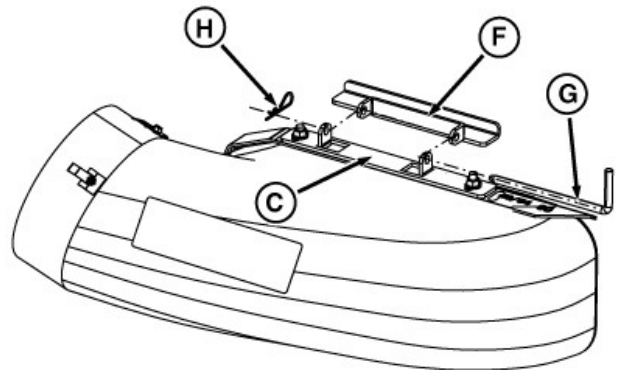
Install Boot Kit (48 and 54 in MOD Decks)



APY15501—UN—29MAR19

1. Secure the boot (A) to the discharge bracket (B) and boot plate adapter (C) using carriage bolts (D) and Nylock nuts (E).

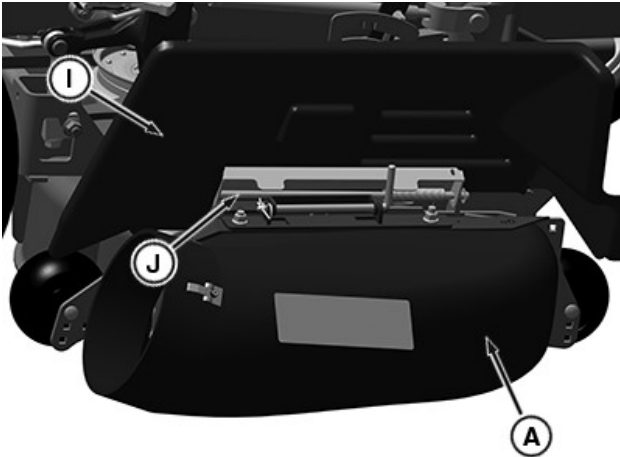
NOTE: Insert the bolts from the inside so that the threads are on top of the boot. This prevents grass clippings from collecting on the bolt threads.



APY15505—UN—01APR19

2. Secure the MOD boot plate (F) to the boot plate adapter (C) using the pin (G) and spring pin (H).

Installing

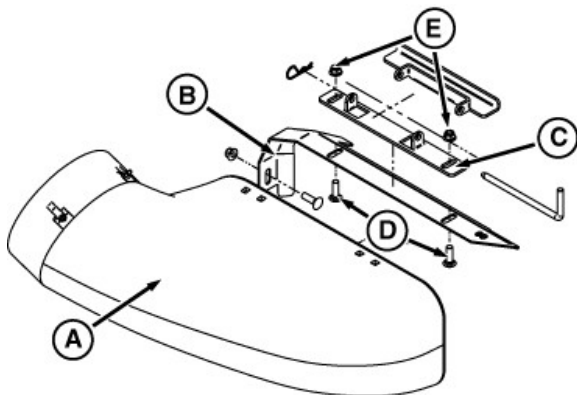


APY15506—UN—01APR19

3. Lift the grass deflector (I) and slide the boot kit (A) under the rod (J).

NOTE: Make sure to close any gaps between the boot and the mower deck by adjusting the position on the boot in the boot plate slots.

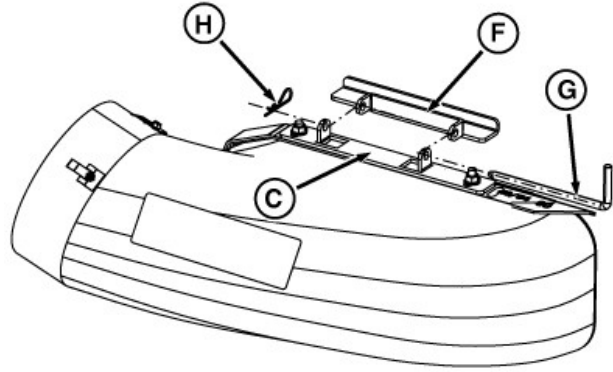
Install Boot Kit (60 in MOD Decks)



APY15502—UN—29MAR19

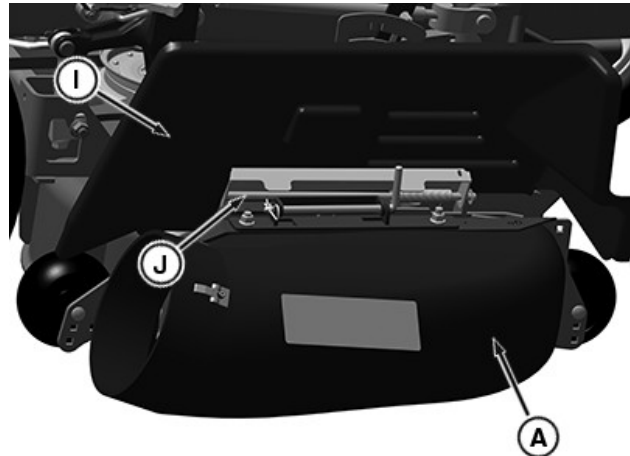
1. Secure the boot (A) to the discharge bracket (B) and boot plate adapter (C) using carriage bolts (D) and Nylock nuts (E).

NOTE: Insert the bolts from the inside so that the threads are on top of the boot. This prevents grass clippings from collecting on the bolt threads.



APY15505—UN—01APR19

2. Secure the MOD boot plate (F) to the boot plate adapter (C) using a pin (G) and spring pin (H).



APY15506—UN—01APR19

3. Lift the grass deflector (I) and slide the boot kit (A) under the rod (J).

NOTE: Make sure to close any gaps between the boot and the mower deck by adjusting the position on the boot in the boot plate slots.

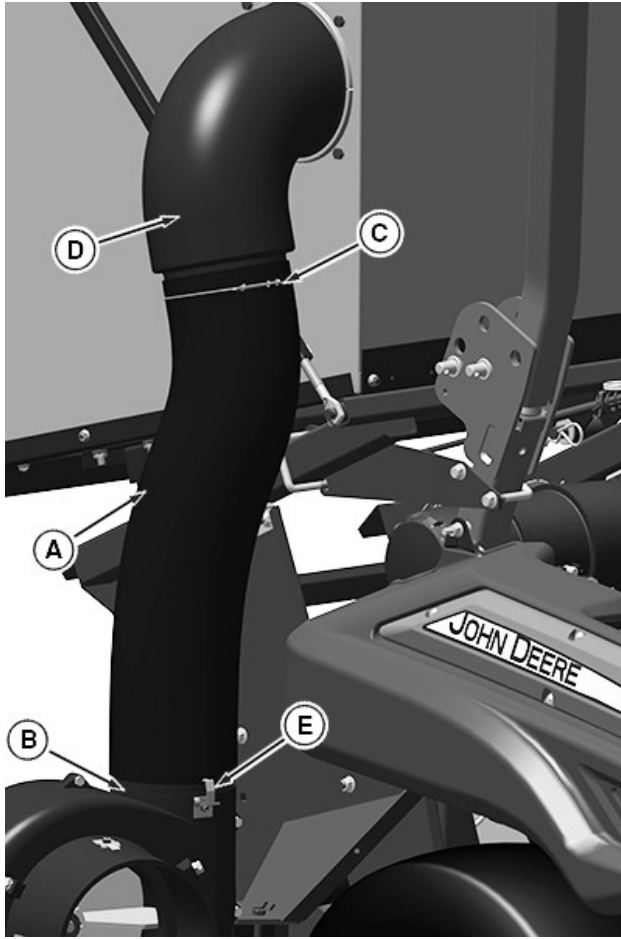
SR99263,0000101-19-01APR19

Install Hose

NOTE: Hoses may need to be cut to fit your machine. Make sure that you have tried to fit them on your machine before cutting.

Installing

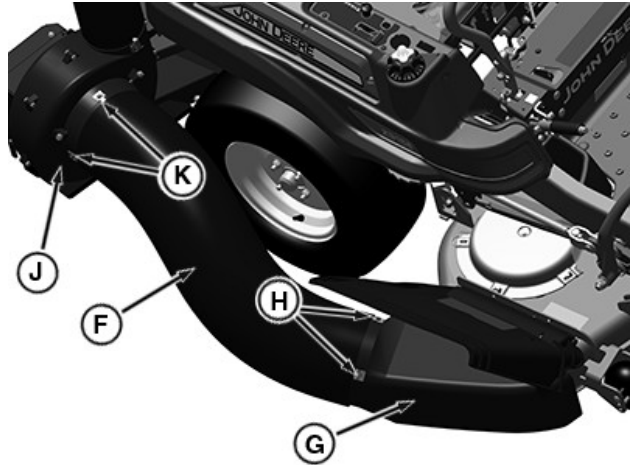
Upper Hose Installation



APY30230—UN—14JAN20

1. Slide the 6 in hose (A) all the way down on the blower outlet (B) and fasten the snap fastener (E) over the hose.
2. Slide the hose clamp (C) onto the top end of the 6 in hose.
3. Secure the top end of the hose onto the inlet (D) and tighten the clamp.

Lower Hose Installation



APY30231—UN—06JAN20

1. Slide one end of the 9 in hose (F) onto the boot (G) and secure it with the snap fasteners (H).
2. Open blower cover to 90° upward to allow hose to slide into place.

NOTE: The lid of the cover is spring actuated so that it stays closed, blocking bystanders from reaching inside the blower when the tube is not present.

3. Secure the other end of the hose to the blower inlet cone (J).
4. Fasten hose by tightening the snap fasteners (K) and allow the blower cover to rest upon the top surface of the tube.

MG39705.00002D6-19-27JAN20

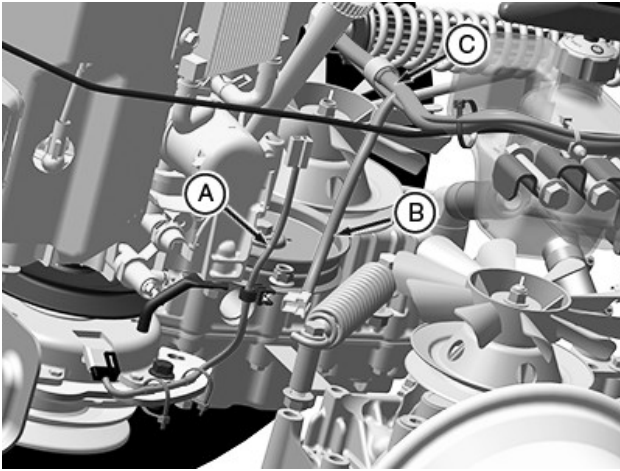
Install Wire Harness

⚠ CAUTION: To prevent serious injury! Proper installation of safety interlock harness is mandatory. Check that all the interlock points work correctly once installed.

1. Refer to the routing image for harness routing.

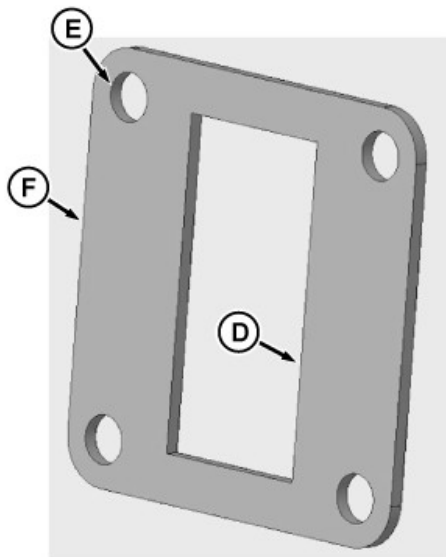
NOTE: Depending on the vehicle's engine, it may be easier to pull the clutch harness through the engine pan from below to access the connectors. Once the connectors are accessible from below, route the blower harness in front of the engine, down through where the clutch harness was pulled through. Then connect the T-connectors in place and gently feed the harness back through the engine pan. Secure the clutch harness in its original position.

Installing



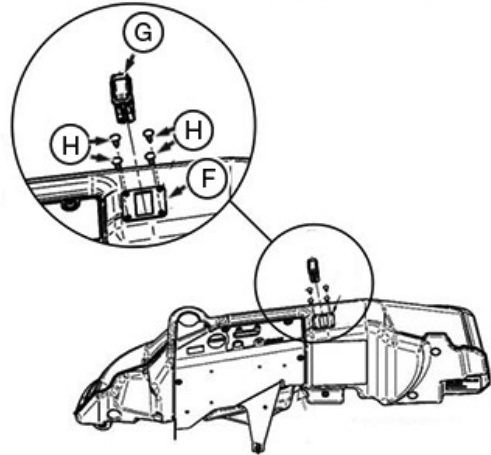
APY16248—UN—22JAN19

2. Route the T-connectors to the front side of the engine. Disconnect the mowers clutch harness (A) from the vehicle harness (B). Connect the T-connectors (C) in between the vehicle and clutch harness.



TC100901—UN—01APR19

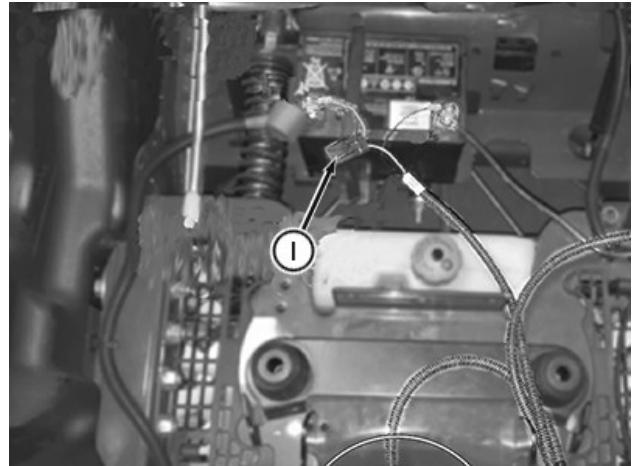
3. Position the blower switch mount plate (F) on the vehicle panel to the operator's right-hand side near the mower controls. Using the switch mount plate as a template, trace the inside (D) and mark four holes (E) on panel. Using a 1/4 in drill bit, drill four holes through the panel and cut out the center following the trace lines.



APY16250—UN—22JAN19

4. Secure the blower engagement rocker switch (G) to the blower switch mount plate (F) by firmly pressing the blower rocker switch into the center cutout of the blower switch. Route the Wire Harness in through the bottom corner of the panel. Connect the blower engagement rocker switch (G) to the wire harness and secure the blower switch mount to the mower by using four nylon plastic rivets (H).
5. Route the long lead end of the harness down to the blower so that it is not close to the exhaust, diverter, or the blower drive belt.

NOTE: Use the clip-on zip-tie and secure this section of the harness and the throttle cable to the lower portion of the frame gusset.



APY16251—UN—22JAN19

6. Route the battery leads to the battery. Use a zip tie to secure fuse (I) to the fixed point so it does not rattle. Ensure that the harness does not pinch when lowering the seat.

SR99263.0000100-19-28JUN19

Cutting Hose to Length

1. Cut hose to the length listed in the following for your

Installing

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	Lower Hose (9 in dia.) Length	Upper Hose (6 in dia.) Length
48/54 MOD	965 mm (38 in)	609.6 mm (24 in)
60 MOD	991 mm (39 in)	609.6 mm (24 in)
72SD	1016 mm (40 in)	609.6 mm (24 in)
All others	914.4 mm (36 in)	609.6 mm (24 in)

MG39705,0000173-19-03APR19

Installing 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 hopper. Remove ballast when the hopper is removed. This ensures proper operation of the machine when not bagging.

Model	Deck Size(s)	Required Weights
Z915E	48"	5
	54" / 60"	4
Z920M	48" / 48" MOD	5
	54" / 60"	4
Z925M	54" / 54" MOD / 60"	4
Z930M Z930R	54" / 54" MOD / 60" / 60" MOD	4
Z945M	60" / 60" MOD	4
Z950M Z950R	60" / 60" MOD / 72"	4
Z955M Z955R	60" / 60" MOD / 72"	4
Z960M	60" / 60" MOD / 72"	4

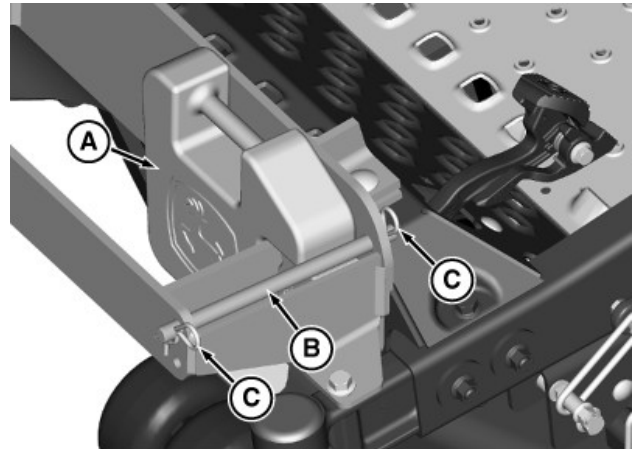
Z970R | 60" / 60" MOD / 72" | 4

NOTE: If your specific model is not listed in the chart, contact your John Deere dealer to ensure compatibility and ballast requirements.

MG39705,00002D7-19-21JAN20

Installing Weight

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



TCT014329—UN—26JUN18

1. 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.

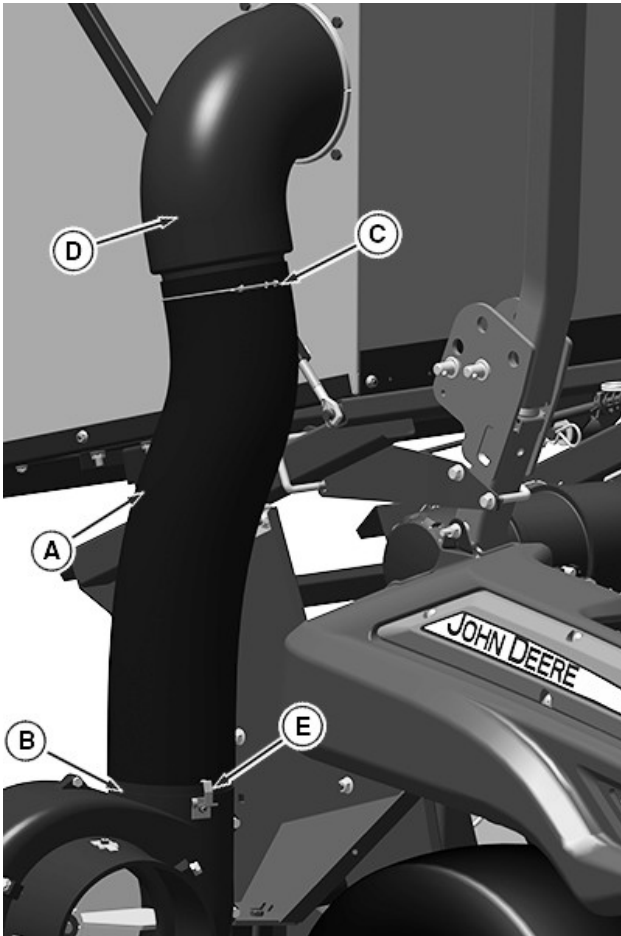
2. Lock down the weights by sliding the rod (B) over them.
3. Install locking pins (C) into rod.

MX00654,0000345-19-10MAR19

Removing and Storing

Removing Hoses

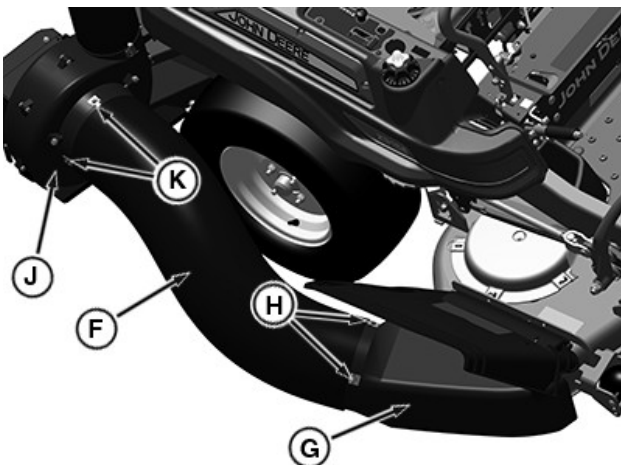
Remove Upper Hose



APY30230—UN—14JAN20

1. Remove one end of the upper hose (A) (6 in dia.) from the blower outlet (B) by loosening the bolts on the hose clamps (E).
2. Remove another end of the upper hose (A) from the inlet (D) by loosening the snap fastener (C).

Remove Lower Hose

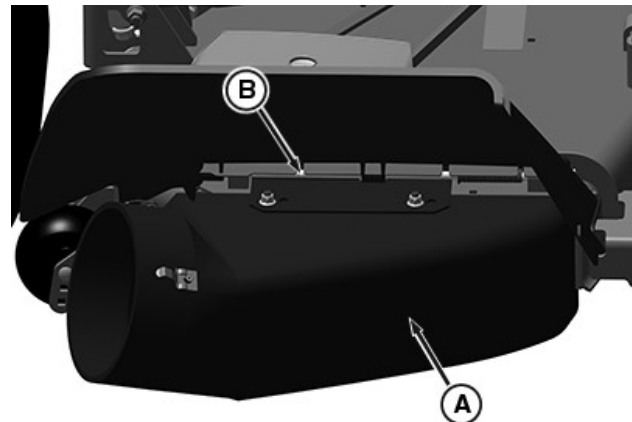


APY30231—UN—06JAN20

1. Remove one end of lower hose (F) (9 in dia.) from the blower cone (J) by loosening the bolts on the hose clamps (K).
2. Remove another end of lower hose (F) from the boot kit (G) by loosening the bolts on the hose clamps (H).

MG39705,00002D9-19-27JAN20

Removing Boot Kit



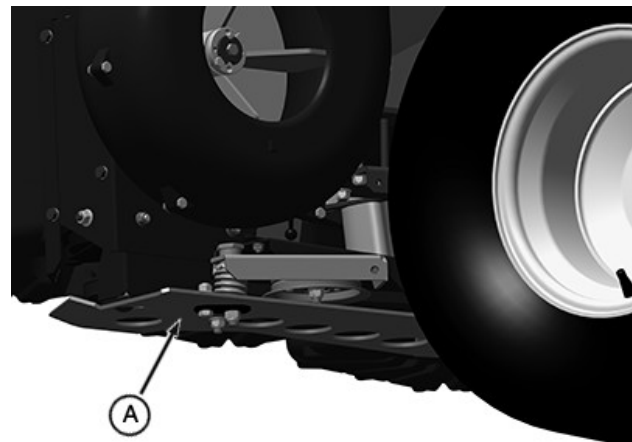
APY15455—UN—19MAR19

Lift the boot kit (A) and remove it by sliding it from under the rod (B).

MG39705,000017D-19-25MAR19

Removing Blower Drive Assembly

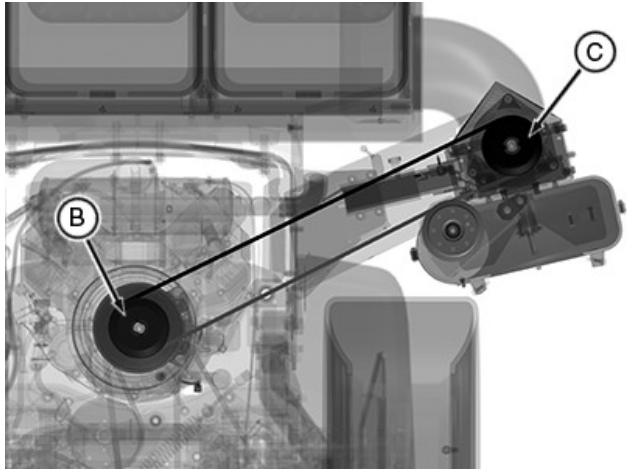
1. Removal of the belt



APY15454—UN—29MAR19

- Insert a large screwdriver into the hole on the idler mount arm assembly (A) and pry the arm back to release tension on the belt.

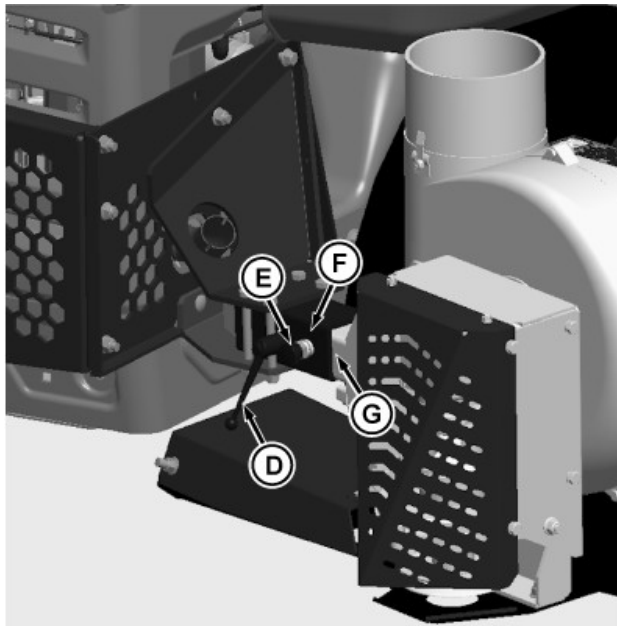
Removing and Storing



APY15456—UN—29MAR19

Model is Shown from Bottom Side

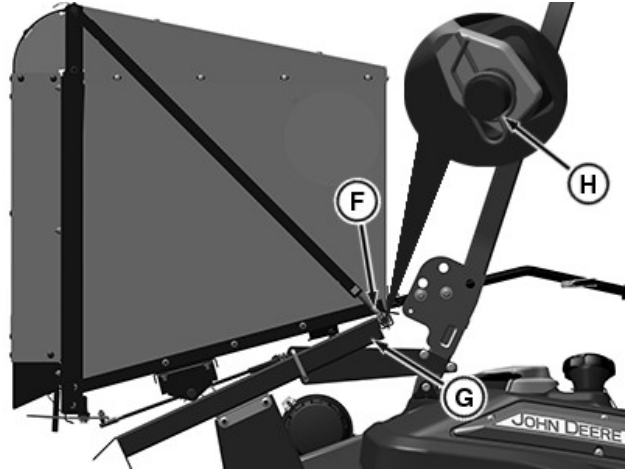
- Once the belt is loosened, remove it from the Engine drive pulley (B) and drive assembly pulley (C).
2. Disconnect the drive assembly wire harness from the quick disconnect blower clutch harness.



TC100913—UN—30JUN19

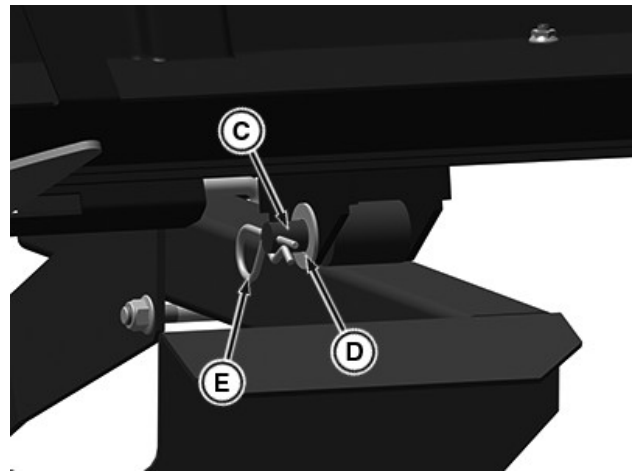
3. Turn the lock handle (D) counterclockwise to loosen. Pull the knob (E) and remove the drive assembly (G) from the receiver tube (F).

MG39705.0000180-19-30JUN19



APY30226—UN—06JAN20

1. Remove the bottom ends of the linkages (F) from the main frame (G) by removing the cotter pins (H).



APY30225—UN—06JAN20

Right Side Pivot is Shown

2. Remove the pivot pin (C) and washer (D) by removing the spring locking pin (E). Repeat the same for the left side pivot. Remove the hopper from the main frame and store safely.

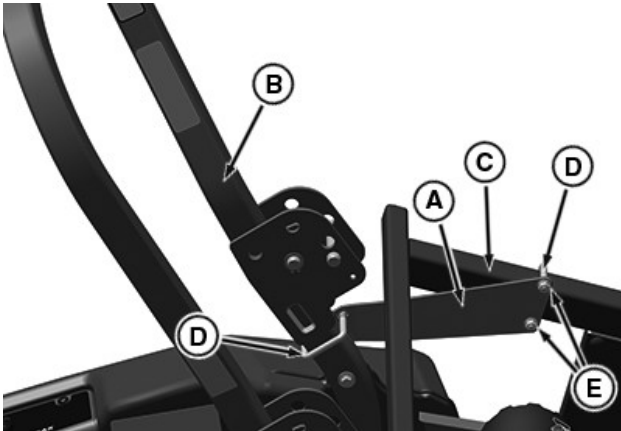
MG39705.00002DA-19-28FEB20

Removing Hopper

NOTE: Get assistance from another person in the removal of the main DFS frame.

Removing and Storing

Removing Main Dump-From-Seat (DFS) Frame

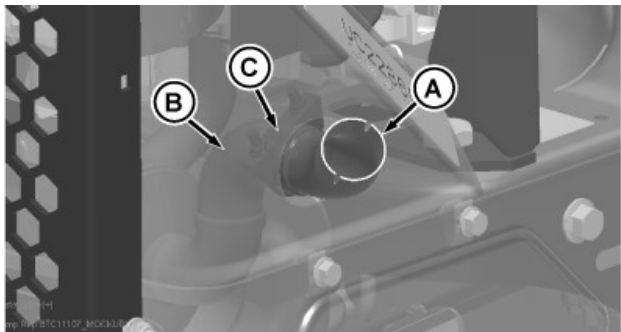


APY30216—UN—01JAN20

1. Remove the front of the main DFS frame brace (A) from the ROPS (B) by removing nuts and U-bolt (D).
2. Remove the rear of the main DFS frame brace (A) from the main DFS frame (C) by removing nuts (E) and U-bolt (D).
3. Repeat the proceeding steps for the left side framebase.

MG39705.00002DE-19-27JAN20

Removing Exhaust Diverter



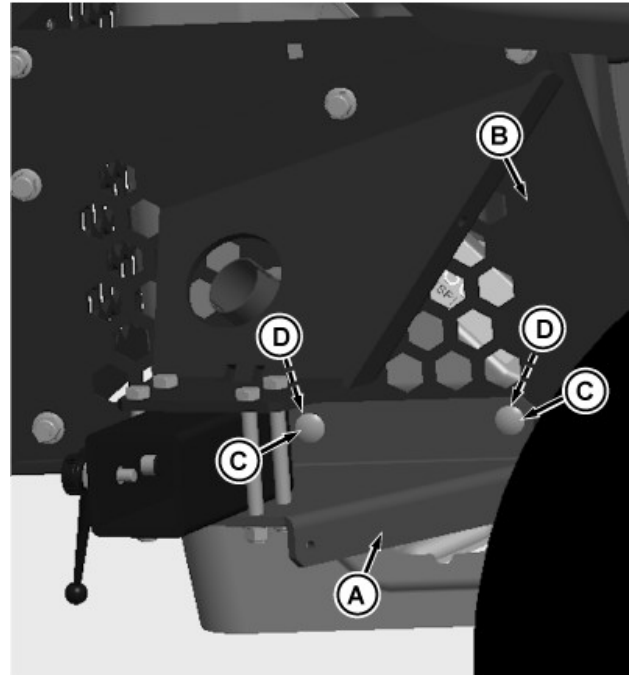
TC100921—UN—30JUN19

Remove exhaust diverter (A) from the engine exhaust pipe (B) by loosening the clamp (C).

MG39705.0000185-19-30JUN19

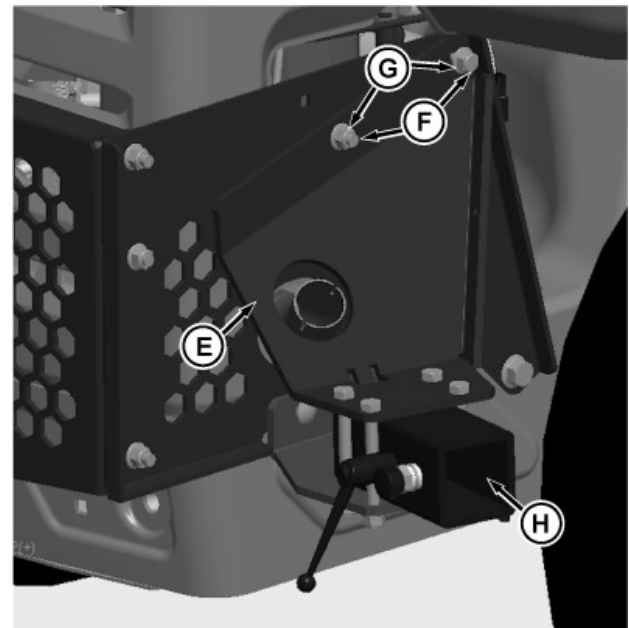
Removing Frame Assembly

Removing Mount Arm / Tube Assembly



TC100914—UN—30JUN19

1. Disassemble the bottom bracket (A) of the mount arm assembly from the right frame bracket (B) by loosening carriage bolts (C) and lock nuts (D).

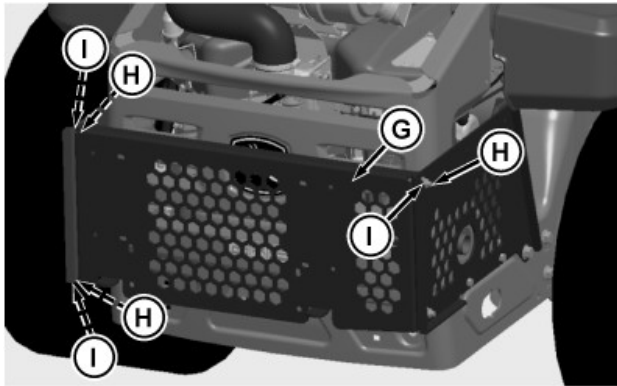


TC100915—UN—30JUN19

2. Disassemble the top bracket (E) of the mount arm assembly by loosening carriage bolt (F) and lock nuts (G).
3. Remove the Tube assembly (H) once loosened enough from the top bracket (C) and the bottom bracket (A).

Removing and Storing

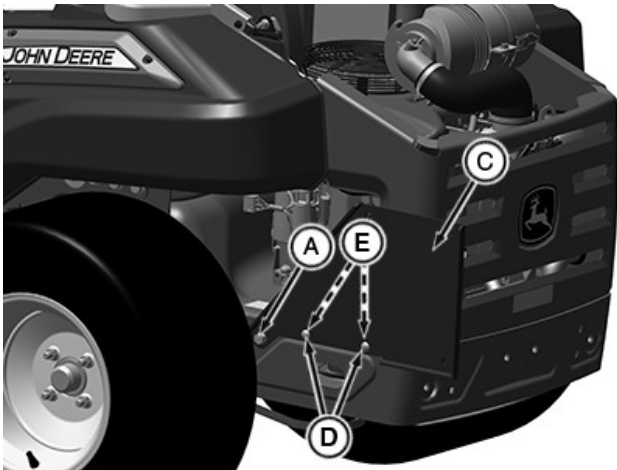
Remove Rear Frame Bracket



TC100917—UN—30JUN19

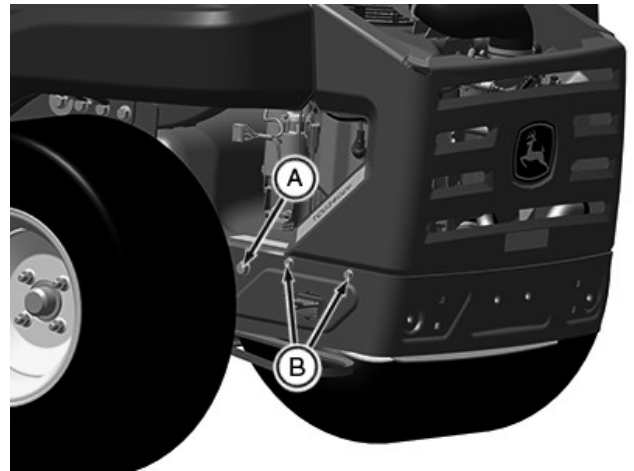
1. Disassemble the rear frame bracket (G) by loosening carriage bolts (H) and flange lock nuts (I) on the left and right frame bracket.
2. Remove the rear frame bracket (G) and store securely.

Remove Left Frame Bracket



APY16220—UN—20MAR19

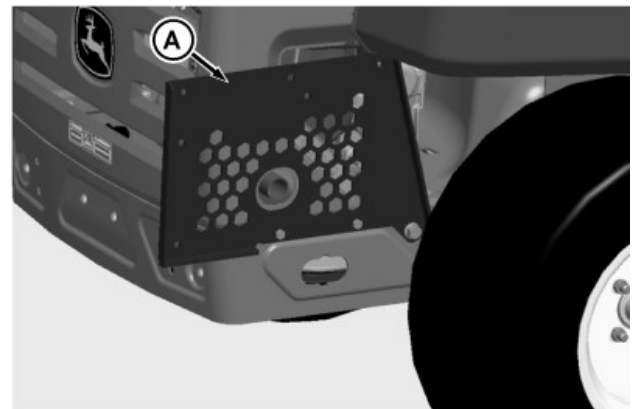
1. Disassemble the left frame bracket (C) by loosening the M12x30 metric bolt (A), carriage bolts (D), and lock nuts (E).
2. Remove the left frame bracket (C) and store securely.



APY15446—UN—18MAR19

3. Reinstall pre-existing M12x30 metric bolt (A) and earlier removed screws (B) on the machine.

Remove Right Frame Bracket



TC100916—UN—30JUN19

1. Remove the right frame bracket (A) and store securely.

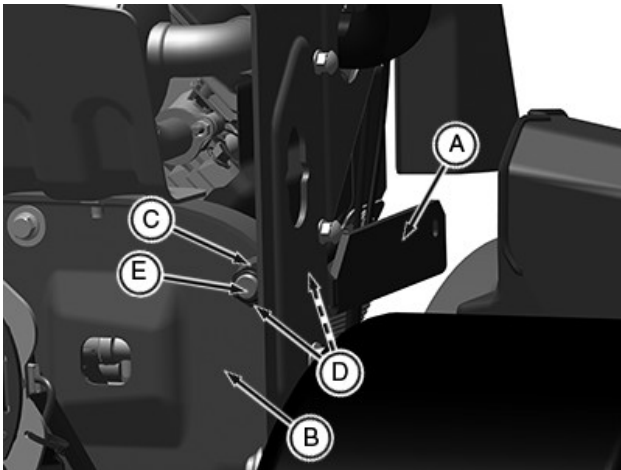


APY15447—UN—19MAR19

2. Reinstall pre-existing M12x30 metric bolt (K) and earlier removed screws (J) on the machine.

Removing and Storing

Remove Frame Gusset

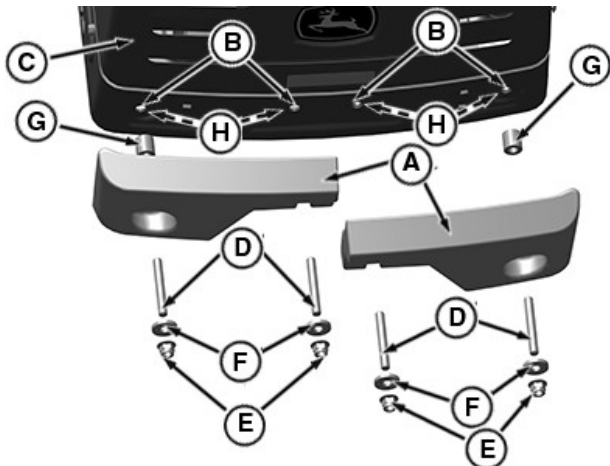


Model is Shown from Rear Right Chassis Side Bottom View
APY15465—UN—22JAN19

Remove the frame gusset (A) from the chassis (B) by loosening nut (C) and removing washers (D) and bolt (E).

MG39705,0000184-19-30JUN19

Install Rear Bumper Weights



APY15466—UN—22JAN19

1. Align the holes on the bumpers (A) with the holes (B) on the rear frame (C) of the machine.
2. Secure the bumpers (A) with studs (D), locknuts (E), washers (F), spacers (G) (between the rear frame and the bumpers), and additional nuts (H) on rear of frame.

MG39705,000017B-19-25MAR19

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

Removing Ballast

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

Operating

Using the Blower

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

Starting Blower

If the blower switch is left engaged, then whenever the PTO is engaged to start the mower deck, the blower engages simultaneously.

If the blower switch is off and the PTO is engaged to start the mower deck, then the blower switch must be engaged shortly after. Failure to engage the blower after the PTO could result in early clogging. For that reason, it is best to leave the blower switch on all the time when collecting.

Stopping Blower

If the blower switch is left engaged, then whenever the PTO is disengaged to stop the mower deck, the blower disengages simultaneously. The blower must be turned off at anytime by disengaging the blower switch.

SG77823,0000210-19-03APR19

Unplugging Mower, Bagger, or Material Collection System

CAUTION: Do not attempt to unplug attachment with the 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 that all machine parts are stopped before raising hopper top or removing chutes.

Checking for Plugging While Driving

If grass builds up in the front of the 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 the mower deck or blower assembly. Check chute inlet.
4. Check under the mower deck for debris.

MX00654,00002FC-19-25MAR19

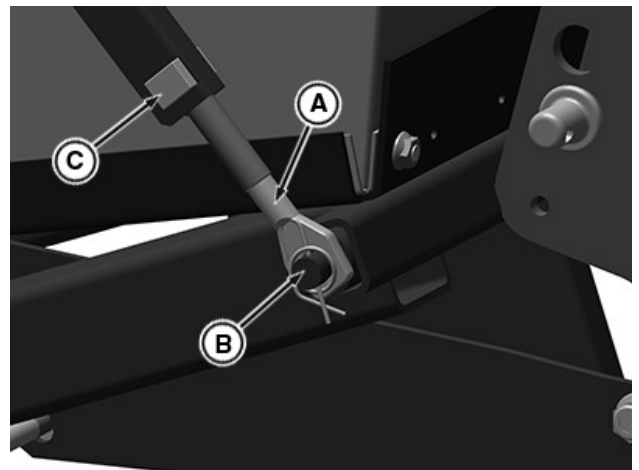
Using the Hopper

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

1. Park machine safely.
2. Push lift handle out and lift up to tilt and dump hopper.
3. Drive forward and away from trimmings pile to excavate the hopper fully and stop.
4. Push lift handle down to engage latch lock and pull lift handle in to lock.

MG39705,00002DB-19-21JAN20

Dump Mechanism Adjustment



APY30232—UN—14JAN20

Right Side Dump Linkage Attachment is Shown

The mechanism may be adjusted in three places, at the adjusting screw (A), at the latch hook pivot bolt (B), and the linkage ball joint (C). To change the door closure tightness:

- Thread the adjusting screw (A) in or out.
- Adjust the latch hook pivot bolt (B) within its mounting slot.
- Adjust the latch hook closure angle by threading the linkage ball joint (C) in or out.

MG39705,00002DC-19-14JAN20

Operating

Transporting

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

- 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

Service Intervals

Service Intervals

Daily - as Needed

- Clean hopper exhaust screen, hoses, and boot.

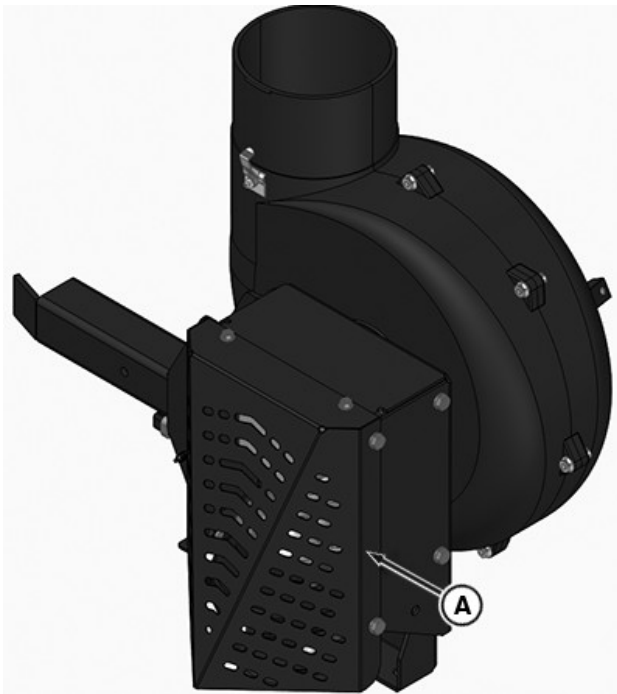
- Check hoses for wear and deterioration. Replace if necessary.

MG39705,0000339-19-18MAR20

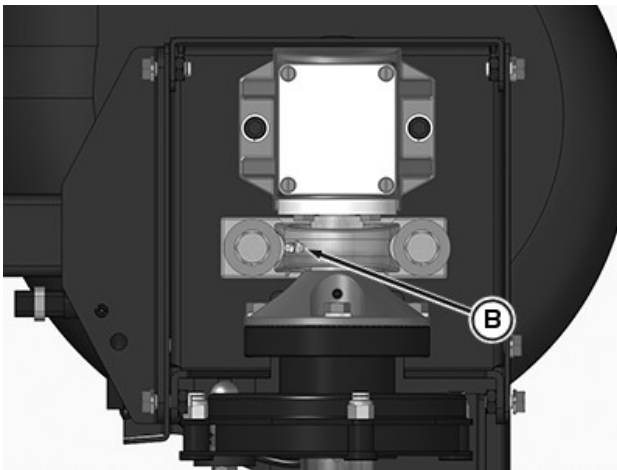
Every 50 Hours

NOTE: Recommended grease is NLGI Grade 2.

- Grease idler and blower gear case (fitting on back of blower-bearing).
- Clean out blower housing, impeller, and boot (do not take housing apart).



APY30235—UN—18MAR20



APY30236—UN—18MAR20

- Open the Blower housing guard (A) and grease idler bearings and around it (B).
- Inspect blower housing for wear.

Service

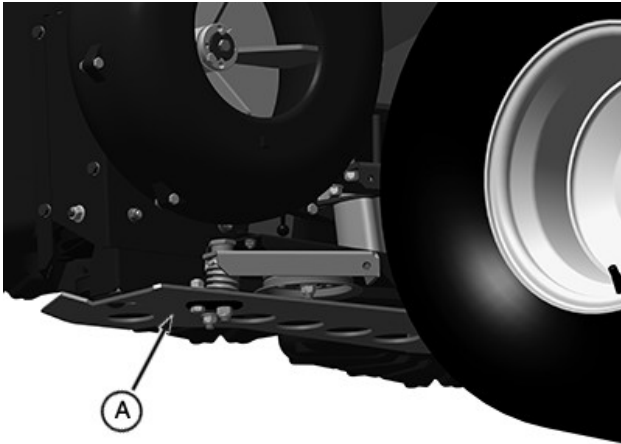
Cleaning Hopper

1. Park machine safely. (See Parking Safely in the Safety section.)
2. Open the hopper to Dump position.
3. Clean the hopper with soft bristled brush or water.
4. Close the hopper back to Normal position.

MG39705,00002DD-19-23JAN20

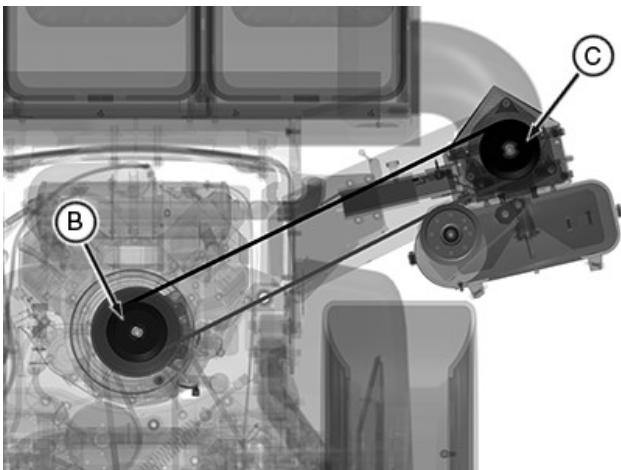
Removing PTO Drive Belts

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



APY15454—UN—29MAR19

1. Insert a large screwdriver into the hole on the idler mount arm assembly (A) and pry the arm back to release tension on the belt.



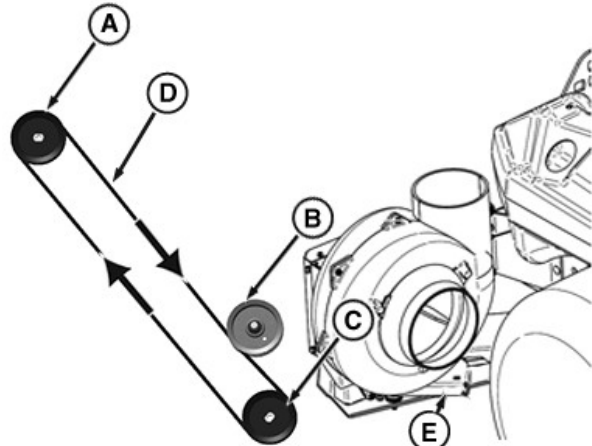
APY15456—UN—29MAR19

2. Once the belt is loosened, remove it from the engine drive pulley (B) and drive assembly pulley (C).

SG77823,0000223-19-03APR19

Installing PTO 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 station to adjust or service machine.



APY014166—UN—11JAN19

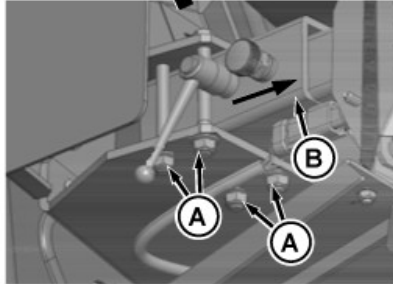
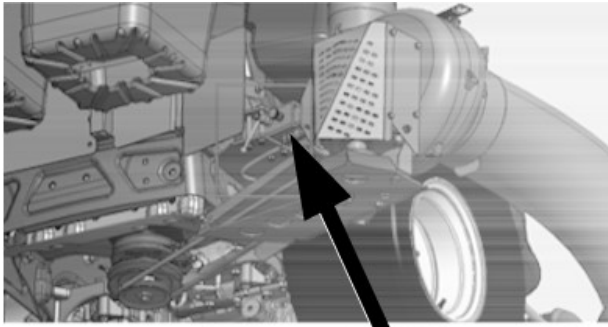
1. Place belt (D) around the engine drive pulley (A) on the underside of the mower.
2. Insert a screw driver into the idler mount assembly (E) and flat idler pulley (B).
3. Rotate lever arm clockwise to relieve tension from the belt (D).

IMPORTANT: Avoid machine damage! Be sure belt does not rub on belt shield. If belt rubs, see **Adjusting Blower Drive Belt Clearance in Service section.**

4. Place belt around the drive assembly pulley (C) and release the tension to tighten belt.

SG77823,0000222-19-28JUN19

Adjusting Blower Drive Belt Clearance



TC100908—UN—24MAY19

1. Gently loosen nuts (A) about a half turn for each bolt until square tube (B) is able to be moved outward.
2. Move square tube (B) about 3.2 cm (.5 in) out. This will allow the belt shield to rotate slightly upward away from the belt, creating the clearance.
3. Tighten bolts to:

Specification

Tube Bolt—Torque. 47 N·m (35 lb·ft)

MX00654,0000380-19-24MAY19

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 is too wet. Throttle speed too slow. Travel speed too fast. Grass 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.
Grass Clippings Trail Behind or Blow to the Side of Mower	Belt is slipping or broken. Plugged chute. Blower not working properly. Grass hopper is full.
Blower or Chute Plugs	Belt is slipping or broken. Grass too wet. Throttle speed too slow. Travel speed too fast. Grass hopper is 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.

MG39705,00002DF-19-27JAN20

Specifications

Dump from Seat

Dump from Seat can be used with the following Mower Decks .48-, 54-, 60-, and 72 inch Side Discharge Decks and 48-, 54-, and 60 MOD Decks	
Front Ballast Recommendation	(See Installing Ballast)
Total Capacity	0.339 m ³ (9.6 bushel)
Weight - Dump From Seat Kit	.73 kg (161 lb)
Weight - 48 in / 54 in SD Boot Kit.	6 kg (13.4 lb)
Weight - 60 in / 72 in SD Boot Kit.	8.7 kg (19.2 lb)
Weight - 48 in / 54 in / 60 in MOD Boot Kit	11.3 kg (24.9 lb)
Weight - Blower, Weight Bracket, and Mounting Frame	74.4 kg (164 lb)

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

MG39705,00002E3-19-27JAN20

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

Index

B

Ballast, Installing	27
Blower, Using	33

D

Double Sheave, Install	10
Drive Belt, Blower, Clearance, Adjusting	37
Drive Belt, Blower, Installing	36
Drive Belt, Blower, Removing	36

F

Frame, Assemble	14
-----------------------	----

L

Labels, safety	6
----------------------	---

M

Mower Blades, Installing Proper	10
---------------------------------------	----

R

Replacement parts	2
-------------------------	---

S

Safety	8
Safety labels	6
Service Intervals	35
Storing Attachment	32

T

Transporting	34
Troubleshooting chart	38

U

Unplugging Mower, Bagger, Material Collection System	33
---	----

W

Weight, installing	27
--------------------------	----