



## 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-19-20170510

## Using Your Operator's Manual

Read this operator's manual, watch the safety video, and review the safety signs on your machine before use. They all contain important safety information and operating instructions that must be followed to help keep you and others safe. Be sure everyone who uses the machine has read the manual, reviewed the safety signs, and knows how to use the machine safely and properly.

Your machine was designed and built to be operated in accordance with all the safe operating instructions. Since it was designed to cut grass, it can amputate hands and feet and throw objects. If you do not follow safety instructions, serious injury or death can occur.

This operator manual is organized in sections to help you find information quickly. You can use this manual to find answers to many of your operating and servicing questions. An index at the end of this book helps you find needed information quickly. Contact your dealer if this manual does not answer your questions.

Before using your machine:

- Know how to operate the machine. The Operating Controls section helps you understand the controls of your machine and what they do.
- Prepare your machine and the mowing area by performing required daily checks outlined in the General Instructions section.
- Follow instructions in the Preventing Injuries section, especially related to:
  - Keeping children safe by following instructions in the Protect Children section.
  - Avoiding injury on slopes and near terrain hazards by following instructions in the Operating on Slopes and Near Terrain Hazards section.
  - Follow the instructions in the Avoid Thrown Objects section and keep all guards in place, including discharge chute.
  - Cleaning machine during use and before storing as outlined in the Prevent Fires section.

- Understand how to service and inspect your machine.

If you do not understand the instructions or have questions, contact your dealer.

The machine shown in this manual can differ slightly from your machine.

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction that the machine travels when going forward. When you see a broken line (-----), the item referenced is hidden from view.

Before delivering this machine, your dealer performed a predelivery inspection to ensure best performance.

This manual is an important part of your machine. Keep this manual with the machine when you sell it.

OUO2005,000078D-19-20200211

## **Machine Use**

This machine is designed solely for use in customary lawn mowing operations. Use in any other way is considered as contrary to the intended use.

The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service, and repair as specified by the manufacturer also constitute essential elements for the intended use.

This machine should be operated, serviced, and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine, and the road traffic regulations must be observed at all times.

Setting fuel delivery beyond published factory specifications or otherwise overpowering will result in loss of warranty protection for this machine.

Any arbitrary modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

OUO1023,0000025-19-20170605

## 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-19-20170605

## 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.

TH84124,0000199-19-20200205

## 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.

TC00531,00000E9-19-20150306

## Product Compatibility

-: Product Compatibility

<b>The MulchControl kit is compatible with:</b>
42 in, 48 in, and 54 in Accel Deep™ decks for X300 models.
42 in, 48 in, and 54 in Accel Deep™ decks for X500 models.
48 in Accel Deep™ deck for X700 models and X900 models.
42 in, 48 in, and 54 in Accel Deep™ decks for ZTrak™ models.
42 in and 48 in Accel Deep™ decks for S200 models.

MG39705,00002E5-19-20200220

## Record Purchase Information

Record your purchase information in the spaces provided below.

DATE OF PURCHASE:

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DEALER NAME:

---

DEALER PHONE:

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OUMX258,0000CEA-19-20131203

# Read Safety in Machine Operator's Manual

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

OUMX068,0000230-19-20130918

## Parking Safely

Always apply the park brake and remove the key before leaving the machine unattended. Children or others may attempt to move or operate an unattended machine.

- Stop the machine on a level surface.
- Disengage mower blades or other attachments.
- Lower attachments to the ground.
- Apply the park brake.
- Stop the engine.
- Remove the key.
- Wait for engine and all moving parts to stop before you leave the seat.

OU02005,0000788-19-20200215

## Protect Children



MXAL41929-UN: Protect children warning symbol

- Children can be killed or seriously injured by riding mowers when operators do not follow safe operating practices.
- Do not mow in reverse. Operating with the mower engaged while backing up is discouraged.
- Never give children a ride on a mower or in a cart behind the mower, even when the blades are off. They can fall off and be run over or cut by the mower blades. Children can interfere with mower operation. Children who have been given rides in the past can suddenly appear in the mowing area for another ride. If you are not aware, they can be run over or backed over by the mower.
- Children are often attracted to lawn mowers and mowing activities, especially if they have been given rides before. They do not know if the blades are rotating or understand that they can be killed or seriously injured even if the blades are not rotating.

- Keep children indoors and out of the mowing area when the mower is being operated. Keep children under the watchful eye of a responsible adult, other than the operator. If there is not a responsible adult to ensure that children stay indoors, DO NOT mow.
- Be alert to the presence of children or others. Turn off the mower blades and stop the machine if someone enters the mowing area.
- Look in the direction the machine is traveling. Before and while backing, turn off the mower blades and look down and behind the machine carefully, especially for children.
- Use extreme care when approaching objects that block your view, such as blind corners, shrubs, or trees, especially while backing. They can hide a child.

MX00654,00002ED-19-20200330

## **Service and Maintenance**

- Proper service and maintenance of the machine is essential.
- Keep all parts in good condition, keep all nuts and bolts tight, and repair any damage immediately. Stop and inspect the machine immediately if you strike an object.
- Ensure that all safety devices, discharge chute, and grass catcher components are in good condition and replace when necessary.
- Understand service procedures thoroughly before working on the machine. If you do not understand the service procedures or are uncomfortable working in your machine, contact your servicing dealer.
- Disconnect the battery or all spark plug wires before servicing the machine. Disconnect negative terminal first and positive last. Install positive terminal first and negative last.
- Some components could have stored energy in springs or hydraulic components. Servicing procedures described in the Service section describe how to perform service and maintenance tasks safely.
- Support any machine elements that must be raised for service work. Use jack stands or service locks to support components when needed.

MX00654,00002EE-19-20200330

## **Disposing of Waste Products and Chemicals**

- Waste products, such as used oil, fuel, coolant, brake fluid, and batteries can harm the environment and people.
- Do not use beverage containers for waste fluids – someone can mistakenly drink from them.
- A Safety Data Sheet (SDS) provides specific details on chemical products: Physical and health hazards, safety procedures, and emergency response techniques. The seller of the chemical products used with your machine is responsible for providing the SDS for that product.
- To learn how to recycle or properly dispose of waste products generated from service, see your local recycling center or authorized dealer. If you wish to discard the machine,

contact your local recycling center or authorized dealer.

MX00654,00002EF-19-20200330

## Switching to Open and Closed Modes



### **CAUTION:**

**Avoid injury! Rotating belts and blades are dangerous.**

1. Park machine on a level surface.
  2. Disengage mower blades.
  3. Lock the park brake.
  4. Wait for all moving mower deck parts to stop before you leave the operator's station.
- 

5.



APY24916-UN: MulchControl™ handle shown

Rotate lever clockwise (A) to close or counterclockwise (B) to open.

MG39705,0000293-19-20200522

## Unplugging Mower



### **CAUTION:**

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

**Rotating blades are dangerous. Shut off the engine and remove the key before getting off the seat to inspect the machine and attachment**

**Thrown objects can cause serious injury. Make sure that all machine parts are stopped before raising hopper top or removing chutes.**

1. Park machine safely. Wait for all moving parts to stop before you leave the operator platform to inspect machine.

2. Check under mower deck and discharge chute for debris.
3. Clear all debris before using mower.
4. If plugging is occurring switch to open mode to allow some grass to discharge.

OUC2004,0000AF8-19-20141112

## Removing Mower

(See Removing Mower section in Vehicle/Mower Deck OM)

Clear all debris from under mower deck and discharge chute.

MG39705,0000446-19-20200525

## Remove Shields, European Models Only (ZTrak™)



MXT014809-UN: Picture Note: 42 in. Accel Deep™ deck shown.



MXT014810-UN: Picture Note: 48 in. Accel Deep™ deck shown.

1. Remove self-tapping screw (A) and cover plate (B).

OUMX068,0000CFC-19-20160307

## Remove Shields, European Models Only (42 in Accel Deep™ Decks—X300 and X500)

- 1.

**NOTE:**

Hardware (A) is retained to shield with a push nut.



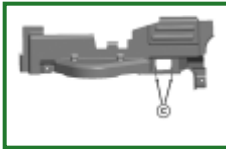


MXT014811-UN: Right Side Deck Shield

Remove right shield (B).

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2.



APY30208-UN: .

Flip shield over and cut out as indicated (C) above.

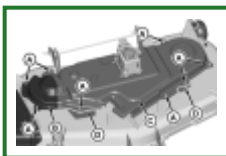
MG39705,00002EF-19-20200220

## Remove Shields, European Models Only (X700 and X900)

1.

**NOTE:**

**Hardware (A) is retained to shield with a push nut.**



MXT014813-UN: Deck Shields

Remove right (B) and left (C) shield.

2. Cut out along marking (D) in left shield.

MG39705,00002F0-19-20200123

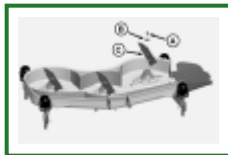
## Removing Discharge Blades

 **CAUTION:**

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

1. Turn mower deck so underside is face up.
2. Insert wood block between blade and mower deck to prevent blade from turning when removing bolt.

3.



MXT012577-UN: Blade Removal

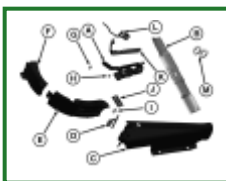
Remove bolt (A), large washer, (B) and blade (C).

OUO2004,0000A9D-19-20150730

## Parts in Kit

### IMPORTANT:

**The mulching blades for the 42 Inch Accel Deep Mower MUST be used only with the mulch plug insert. Use of Standard or Bagging blades WILL destroy the mulch plug and may damage the tractor and mower deck.**



APY24917-UN: .

-: Parts in Kit

Item	Description	Qty.
A	Handle	1
B	Blade	2
C	Baffle	1

Item	Description	Qty.
D	Hinge Pin	1
E	Kit Gate	1
F	Discharge Plate	1
G	Bolt, M8 x 20	2
H	Lock Nut, M8	7
I	Shoulder Bolt, M8	3
J	Label	1
K	Detent Plate (For S200 Models only)	1
L	Handle Assembly (For S200 Models only)	1
M	Washer (For S200 Models only)	2

MG39705,0000294-19-20200416

## Installing MulchControl™ Discharge Plate



### CAUTION:

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

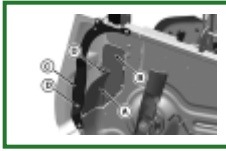
### NOTE:

**For ease of installation, place mower deck in the vertical position.**

### NOTE:

**The following procedure is for the 42 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 42 in Accel Deep™ deck is similar.**

1.



APY24918-UN: .

Position discharge plate (A) as shown.

2. Install discharge plate to the metal chute (B) and toe guard (C) with two M8 x 20 carriage bolts (D) and two M8 lock nuts.
3. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

MG39705,0000295-19-20200602

## Installing Deflector Assembly



### CAUTION:

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

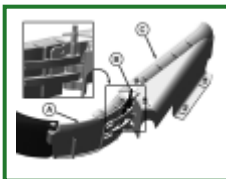
### NOTE:

**For ease of installation, place mower deck in the vertical position.**

### NOTE:

**The following procedure is for the 42 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 42 in Accel Deep™ deck is similar.**

1.

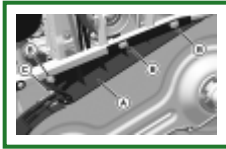


APY24920-UN: .

Assemble kit gate (A) and baffle (C) together as shown and insert the pin (B) in the slots.

---

2.



APY24919-UN: .



APY24922-UN: .

Install deflector assembly (A) to the mower deck using M8 shoulder bolts (B), M8 lock nuts (D), and lock nut (E).

3. Ensure the pin (C) is in the correct slot and gate door can open and close.

4. Tighten lock nuts (D) and lock nut (E).

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

**NOTE:**

**For 200 series model, do not use M8 lock nut (E).**

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MG39705,0000296-19-20200602

*Select Series is a trademark of Deere & Company*

*Accel Deep is a trademark of Deere & Company*

## Installing Handle Assembly (For X3, X5, and Z3 Models)

**NOTE:**

**The following procedure is for the 42 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines listed above with a 42 in Accel Deep™ deck is similar.**



**CAUTION:**

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

1.



APY24923-UN: .

Install handle assembly (A) to hinge pin with M8 lock nut (B). Tighten lock nut until snug on handle.

2.



APY24924-UN: .

On the top side of deck, install M8 lock nut (C) on shoulder bolt (D) to secure handle assembly.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

MG39705,0000297-19-20200602

## Installing Handle Assembly (For S200 Models)



**CAUTION:**

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

1.

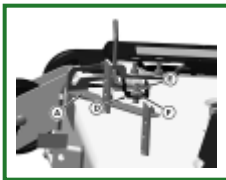


APY24889-UN: .

Install detent plate (A) and secure with two M8 shoulder bolts (C) from the bottom side to the mower deck and M8 lock nuts (B) on the detent plate (A).

---

2.



APY24990-UN: .

Install handle assembly (D) through a slot in detent plate (A) and secure it with M8 lock nut (E) and two washers (F).

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

**NOTE:**

**Handle assembly is spring loaded. Apply pressure to handle mounting plate for proper installation.**

MG39705,00002F4-19-20200602

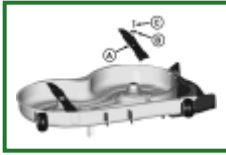
## Installing Mulch Blades



**CAUTION:**

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

1.



MXT015290-UN: Mulch Blade

Install blade (A) with cutting edge toward the ground.

2. Install large washer (B) and bolt (C).
3. Insert wood block between blade and mower to prevent blade from turning when tightening bolt.
4. Tighten bolt.

Item	Measurement	Specification
Blade Bolt	Torque	68 N·m (50 lb·ft)

5. To check blade-to-mulch baffle clearance, rotate blades by hand. If interference occurs, check that hardware is tightened.

OUMX068,0000D92-19-20160307

## Install Shields, European Models Only (42 in. Accel Deep™ Decks—X300 and X500)

**NOTE:**

Hardware (B) is retained to shield with a push nut.

1.



APY30209-UN: .

Install right shield (A) with attached hardware (B).

2. Check for clearance between handle assembly (C) and shield.
3. If necessary, remove shield and cut away excess material.

MG39705,00002F1-19-20200123



# Installing Label



APY24925-UN: .

Place label (A) on mower deck as shown to provide visual indication of door direction.

MG39705,0000298-19-20191211

# Installing Mower

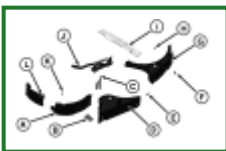
(See Installing Mower section in Vehicle/Mower Deck OM.)

OUMX068,0000D95-19-20160307

# Parts in Kit

## IMPORTANT:

The mulching blades for the 48 Inch Accel Deep Mower **MUST** be used only with the mulch plug insert. Use of Standard or Bagging blades **WILL** destroy the mulch plug and may damage the tractor and mower deck.



APY24926-UN: .

:- Parts in Kit

Item .	Description	Qty.
A	Kit Gate	1
B	Label	1
C	Hinge Pin	1
D	RHS Baffle Kit	1

Item .	Description	Qty.
E	M8 x 20 Hex Flange Bolt	3
F	M8 Shoulder Bolt	5
G	LHS Baffle Kit	1
H	M8 Lock Nut	9
I	Blade	3
J	Handle	1
K	M8 x 20 Bolt	1
L	Discharge Plate	1

MG39705,0000299-19-20200602

## Installing MulchControl™ Discharge Plate



### CAUTION:

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

### NOTE:

For ease of installation, place mower deck in the vertical position.

### NOTE:

The following procedure is for the 48 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 48 in Accel Deep™ deck is similar.

1.



APY24927-UN: .

Position discharge plate (A) as shown.

2. Insert M8 x 20 carriage bolt (B) through the mower deck and into the hole in the discharge plate.
3. Install M8 lock nut on bolt (B).
4. Insert M8 shoulder bolt (C) through the discharge plate and into the hole in the mower deck.
5. Install M8 lock nut on bolt (C).
6. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

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MG39705,000029A-19-20200602

*Select Series* is a trademark of Deere & Company

*Accel Deep* is a trademark of Deere & Company

## Installing Deflector Assembly



### CAUTION:

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

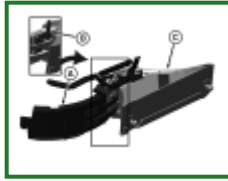
### NOTE:

**For ease of installation, place mower deck in the vertical position.**

### NOTE:

**The following procedure is for the 48 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 48 in Accel Deep™ deck is similar.**

1.



APY24928-UN: .

Assemble kit gate (A) and baffle (C) together as shown and insert the pin (B) in the slots.

---

2.



APY24929-UN: .

Install right deflector assembly (D) to the mower deck using M8 shoulder bolts (F) and M8 lock nuts.

3. Ensure the pin (E) is in the correct slot and gate door can open and close.

4. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

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5.



APY24930-UN: .

Install left deflector assembly (I) as shown, to the mower deck using M8 shoulder bolts (H) and M8 lock nuts.

6. On the top side of deck, install M8 lock nut on shoulder bolt (G).

7. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

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 Select Series is a trademark of Deere & Company  
 Accel Deep is a trademark of Deere & Company

MG39705,000029B-19-20200602

## Installing Handle Assembly

### NOTE:

The following procedure is for the 48 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 48 in Accel Deep™ deck is similar.

### CAUTION:

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

1.



APY24932-UN: .

Install handle assembly (A) to hinge pin with M8 lock nut (B). Tighten lock nut until snug on handle.

2.



APY24931-UN: .

On the top side of deck, install M8 lock nut (C) on shoulder bolt (D) to secure handle assembly.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

MG39705,000029C-19-20200602

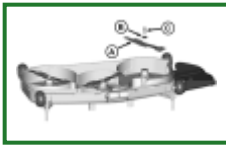
## Installing Mulch Blades



### CAUTION:

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

1.



MXT015291-UN: Mulch Blade

Install blade (A) with cutting edge toward the ground.

2. Install large washer (B) and bolt (C).
3. Insert wood block between blade and mower to prevent blade from turning when tightening bolt.
4. Tighten bolt.

Item	Measurement	Specification
Blade Bolt	Torque	68 N·m (50 lb·ft)

5. To check blade-to-mulch baffle clearance, rotate blades by hand. If interference occurs, check that hardware is tightened.

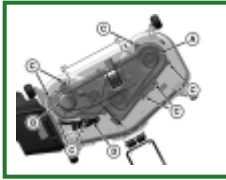
OUMX068,0000D93-19-20160307

## Install Shields, European Models Only (X700/X900)

### NOTE:

**Hardware (C) is retained to shield with a push nut.**

1.



APY24986-UN: .

Install left (A) and right (B) shield with attached hardware (C).

2. Check for clearance between handle assembly (D) and shield (A).

3. If necessary, remove shield and cut away excess material.

MG39705,00002F3-19-20200213

## Installing Label



APY24933-UN: Domestic Mower Deck is Shown.



APY24934-UN: Export Mower Deck is Shown.

Place label (A) on mower deck as shown to provide visual indication of door direction.

MG39705,000029D-19-20200109

## Installing Mower

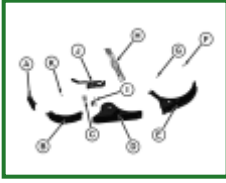
(See Installing Mower section in Vehicle/Mower Deck OM.)

OUMX068,0000D96-19-20160307

## Parts in Kit

**IMPORTANT:**

**The mulching blades for the 54 Inch Accel Deep Mower MUST be used only with the mulch plug insert. Use of Standard or Bagging blades WILL destroy the mulch plug and may damage the tractor and mower deck.**



APY24935-UN: .

-: Parts in Kit

Item	Description	Qty.
A	Discharge Plate	1
B	Kit Gate	1
C	Label	1
D	RHS Baffle Kit	1
E	LHS Baffle Kit	1
F	M8 Shoulder Bolt	5
G	M8 Lock Nut	9
H	Blade	3
I	Hinge Pin	1
J	Handle	1
K	M8 x 20 Bolt	1

MG39705,000029E-19-20200602

## Installing MulchControl™ Discharge Plate



### CAUTION:

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



**NOTE:**

For ease of installation, place mower deck in the vertical position.

**NOTE:**

The following procedure is for the 54 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 54 in Accel Deep™ deck is similar.

1.



APY24936-UN: .

Position discharge plate (A) as shown.

2. Insert M8 x 20 bolt (B) through the mower deck and into the hole in the discharge plate.
3. Install M8 lock nut on bolt. Do not tighten yet.
4. Insert M8 shoulder bolt (C) through the discharge plate and into the hole in the mower deck.
5. Install M8 lock nut on bolts.
6. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

MG39705,000029F-19-20200602

## Installing Deflector Assembly

 **CAUTION:**

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

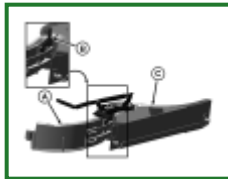
**NOTE:**

**For ease of installation, place mower deck in the vertical position.**

**NOTE:**

**The following procedure is for the 54 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 54 in Accel Deep™ deck is similar.**

1.



APY24937-UN: .

Assemble kit gate (A) and baffle (C) together as shown and insert the pin (B) in the slots.

---

2.



APY24938-UN: .

Install right deflector assembly (D) to the mower deck using M8 shoulder bolts (F) and M8 lock nuts.

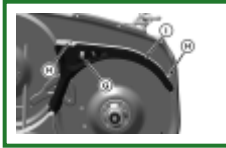
3. Ensure the pin (E) is in the correct slot and gate door can open and close.

4. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

---

5.



APY24939-UN: .

Install left deflector assembly (I) as shown, to the mower deck using M8 bolts (H) and M8 lock nuts.

6. On the top side of deck, install M8 lock nut on shoulder bolt (G).

7. Tighten lock nuts.

Item	Measurement	Specification
M8 Lock Nuts	Torque	20 N·m (15 lb·ft)

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*Select Series* is a trademark of Deere & Company

*Accel Deep* is a trademark of Deere & Company

## Installing Handle Assembly

### NOTE:

The following procedure is for the 54 in MulchControl™ on a Select Series™ mower deck. The installation procedure for other machines with a 54 in Accel Deep™ deck is similar.

### ⚠ CAUTION:

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

1.



APY24940-UN: .

Install handle assembly (A) to hinge pin with M8 lock nut (B). Tighten lock nut until snug onto handle.

---

2.



APY24941-UN: .

On the top side of deck, install M8 lock nut (C) on shoulder bolt (D) to secure handle assembly.

Item	Measurement	Specification
M8 Lock Nut	Torque	20 N·m (15 lb·ft)

MG39705,00002A1-19-20200602

## Installing Mulch Blades



### CAUTION:

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

1.



MXT015292-UN: Mulch Blade

Install blade (A) with cutting edge toward the ground.

2. Install large washer (B) and bolt (C).
3. Insert wood block between blade and mower to prevent blade from turning when tightening bolt.
4. Tighten bolt.

Item	Measurement	Specification
Blade Bolt	Torque	68 N·m (50 lb·ft)

- To check blade-to-mulch baffle clearance, rotate blades by hand. If interference occurs, check that hardware is tightened.

OUMX068,0000D94-19-20160307

## Installing Label



APY24942-UN: .

Place label (A) on mower deck as shown to provide visual indication of door direction.

MG39705,00002A2-19-20191212

## Installing Mower

(See Installing Mower section in Vehicle/Mower Deck OM.)

OUMX068,0000D97-19-20160307

## Removing MulchControl™ (42 Inch Accel Deep™ Decks)

### Removing MulchControl™

- Remove mower deck. (See Removing Mower section in Vehicle/Mower Deck Operator Manual).
- For Select Series™ 42 in Accel Deep™ European mowers only, remove right belt shield.

3.



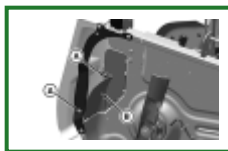
#### **CAUTION:**

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

Remove mulch blades.

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4.



APY24988-UN: .

Remove discharge plate (B) from discharge area by removing the carriage bolts (A) and lock nuts.

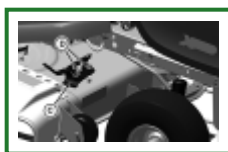
---

5.



**CAUTION:**

**Avoid injury! Components are installed under spring tension. Wear eye protection and use proper tools when installing and removing components with spring tension.**



APY24983-UN: .

Loosen lock nuts (D) and remove the handle assembly (C).

---

6.



APY24985-UN: .

Loosen M8 lock nuts (E).

---

7.



APY24987-UN: .

Remove shoulder bolts (F) and remove deflector assembly (G)

8. **ZTrak™ export only:** Reinstall cover plate.

## Storing MulchControl™

Clean and store all MulchControl™ parts in a clean, dry place.

MG39705,00002B3-19-20200128

## Removing MulchControl™ (48 Inch Accel Deep™ Decks)

### Removing MulchControl™

1. Remove mower deck. (See Removing Mower section in Vehicle/Mower Deck Operator Manual).
2. For X700/X900 48 in Accel Deep™ European mowers only, remove right belt shield.

3.



#### **CAUTION:**

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

Remove mulch blades.

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4.



APY24982-UN: .

Remove discharge plate (B) from discharge area by removing the hex flange bolts (A) and lock nuts.

---

5.

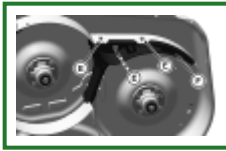


APY24977-UN: .

Loosen lock nuts (D) and remove the handle assembly (C).

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6.



APY24979-UN: .

Loosen lock nuts (E) and remove M8 bolts and then remove the LHS deflector assembly (F).

---

7.



APY24980-UN: .

Loosen lock nuts (H) and remove M8 bolts and then remove the RHS deflector assembly (G).

8. **X700/X900 export only:** Install hardware into any exposed holes that remain in deck after removal of MulchControl™ kit.

9. **ZTrak™ export only:** Reinstall cover plate.

### Storing MulchControl™

Clean and store all MulchControl™ parts in a clean, dry place.

MG39705,00002B4-19-20200127

## Removing MulchControl™ (54 Inch Accel Deep™ Decks)

### Removing MulchControl™

1. Remove mower deck. (See Removing Mower section in Vehicle/Mower Deck Operator Manual).



2.



**CAUTION:**

**Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades. Replace blades if defective. Never straighten or weld them.**

Remove mulch blades.

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3.



APY24976-UN: .

Remove discharge plate (B) from discharge area by removing the carriage bolts (A) and lock nuts.

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4.

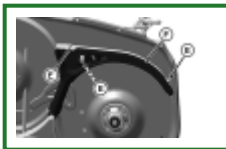


APY24971-UN: .

Loosen lock nuts (D) and remove the handle assembly (C).

---

5.



APY24973-UN: .

Loosen lock nuts (E) and remove M8 bolts and then remove the LHS deflector assembly (F).

---

6.



APY24974-UN: .

Loosen lock nuts (H) and remove M8 bolts, and then remove the RHS deflector assembly (G).

### Storing MulchControl™

Clean and store all MulchControl™ parts in a clean, dry place.

MG39705,00002B5-19-20200128

## Using Troubleshooting Chart

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

When you have checked all the possible causes listed and you are still experiencing the problem, see your authorized dealer.

BS62576,00014F0-19-20130919

## MulchControl™

-: Troubleshooting Chart

IF	Check
MulchControl™ gate will not open	Plugging of mower deck/baffles.
MulchControl™ gate will not close	Plugging of mower deck/baffles
MulchControl gate not holding setting (open or closed)	Check for handle seated firmly onto pin taper and properly aligned.
MulchControl™ causing blowout in closed position	Check that gate stop is installed (after removal of cut and throw - 42 in. Accel Deep™ only)  Ensure that system is in closed position

IF	Check
MulchControl™ Material Dispersion Not Satisfactory	Clean debris buildup from underside of deck Check blades for sharpness and damage Ensure that correct blades are installed (MulchControl™ is designed to use mulch blades, not standard blades) Change blades Check discharge chute for damage Check procedures on Adjusting Mower Level Side-to-Side and Front-to-Rear. Adjust system for proper door position Run engine at fast throttle Mowing too fast for grass conditions

MG39705,00002F2-19-20200127

## 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](http://www.deere.com/globalhome/deerecom/global_home.page?CC=true)**

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

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