

**AutoConnect™ Mid-Mount Mower
54D (SN: 100001-) and 60D (SN: 120001-)
(European)**



JOHN DEERE

OPERATOR'S MANUAL

**AutoConnect™ Mid-Mount Mower
54D and 60D (European)**

OMTR149575 ISSUE I5 (ENGLISH)

John Deere Augusta Works
European Edition
Printed in U.S.A.



Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages. See www.techpubs.deere.com (Ag&Turf/JDPS), www.johndeeretechno.com (C&F), or your John Deere dealer to order.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (PIN) in the Specification or Machine Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. PIN information is helpful when ordering parts. File the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received at time of purchase.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

Contents

	Page		Page
Product Identification		Transporting Mower on Machine	30-2
Product Compatibility	00-1	Transporting Machine on Trailer	30-2
Record Identification Numbers	00-1		
Safety		Removal and Storage	
Read Safety in Machine Operator's Manual	05-1	Remove Mower	35-1
Follow Safety Instructions	05-1	Storing Mower	35-2
Prepare for Emergencies	05-1		
Understand Signal Words	05-1	Service	
Recognize Safety Information	05-2	Service Intervals	40-1
Operator Training Required	05-2	Grease	40-1
Avoid Backover Accidents	05-2	Gear Oil	40-1
Preparation	05-2	Remove Belt Shield	40-1
Operating Safely	05-3	Lubricating Mower	40-2
Park Machine Safely	05-3	Servicing Gearbox	40-2
Avoid High-Pressure Fluids	05-3	Servicing Mower Belt	40-2
Checking Mowing Area	05-4	Check for Bent Mower Blades	40-3
Rotating Blades are Dangerous	05-4	Remove and Install Mower Blades	40-3
Protect Children	05-4	Sharpen Blades	40-4
Stay Clear of Rotating Drivelines	05-5	Balance Blades	40-4
Avoid Tipping	05-5	Replacing Wheels	40-5
Wear Protective Clothing	05-5	Replace Sheaves	40-5
Protect Against Noise	05-6		
Store Attachments Safely	05-6	Troubleshooting	
Maintenance and Storage	05-6	Use Troubleshooting Chart	45-1
		Mower Deck Troubleshooting	45-1
Safety Labels		Connecting Mower Deck Troubleshooting	45-2
Replace Safety Signs	10-1		
Safety Labels	10-1	Specifications	
		Mower Deck Specifications	50-1
Assembly			
Required Equipment	15-1	Get Quality Service	
Install Wheels	15-1	Service Literature	55-1
Install Discharge Chute	15-1	Parts	55-1
		Order Service Parts Online	55-1
Install Mower		John Deere Is At Your Service	55-1
Install Mower	20-1		
Connect Hydraulic Hose for Mower Lift	20-3	Declaration of Conformity	
		EU Declaration of Conformity	60-1
Adjust Mower		UK Declaration of Conformity	60-2
Preparing Machine	25-1		
Adjusting Mower Level (Side-to-Side)	25-1		
Adjusting Mower Level (Front-to-Rear)	25-2		
Adjusting Deck Height	25-4		
Adjusting Mower Wheels	25-6		
Operate Mower			
Raise and Lower Mower	30-1		
Setting Height of Cut	30-1		
Engaging Mower	30-2		
Unplugging Mower	30-2		

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.

COPYRIGHT © 2025
DEERE & COMPANY
Moline, Illinois
All rights reserved.
Previous Editions
Copyright © 2021, 2022

Product Identification

Product Compatibility

The 54D and 60D AutoConnect mowers are designed for use with compact utility tractor models:

1023E, 1025R, 1026R Serial No. (LL100001-)

2025R, 2026R Serial No.(HH100001-)

Before operating the mower, the following equipment must be installed on the machine. See your John Deere dealer.

- Mower Lift Kit
- Independent Hydraulic Lift Kit (Optional)

UP00731,0000A12-19-09JAN20

Record Identification Numbers

AutoConnect Mower

Mowers for 1023E, 1025R, 1026R:

For tractor Serial No. (LL100001-)

Mowers for 2025R, 2026R:

For tractor Serial No. (HL100001-)

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

You will need to locate the model and serial numbers for the mower deck and record the information in the spaces provided below.

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER:

UP00731,0000A11-19-09JAN20

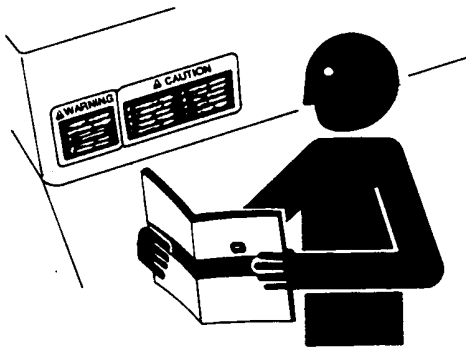
Safety

Read Safety in Machine Operator's Manual

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

UP00731,0000095-19-04SEP13

Follow Safety Instructions



TS201—UN—15APR13

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

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

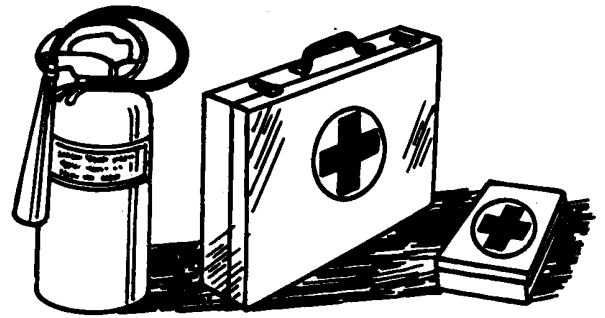
Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

DX,READ-19-01AUG22

Prepare for Emergencies



TS291—UN—15APR13

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

DX,FIRE2-19-03MAR93

Understand Signal Words

▲ DANGER

▲ WARNING

▲ CAUTION

TS187—19—30SEP88

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.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs.

CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL-19-05OCT16

Recognize Safety Information



T81389—UN—28JUN13

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

DX,ALERT-19-03OCT22

Operator Training Required

- Read the operator's manual and other training material. If the operator or mechanic cannot read English, it is the owner's responsibility to explain this material to them. This publication is available in other languages.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- All operators and mechanics should be trained. The owner of the machine is responsible for training the users.
- Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people, or property.
- Operate the machine in an open, unobstructed area under the direction of an experienced operator.

WS68074,0000547-19-31MAR21

Avoid Backover Accidents



PC10857XW—UN—15APR13

Before moving machine, be sure that all persons are clear of machine path. Turn around and look directly for best visibility. Use a signal person when backing if view is obstructed or when in close quarters.

Do not rely on a camera to determine if personnel or obstacles are behind the machine. The system can be limited by many factors including maintenance practices, environmental conditions, and operating range.

DX,AVOID,BACKOVER,ACCIDENTS-19-30AUG10

Preparation

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Wear appropriate clothing including hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Inspect the area where the equipment is to be used and remove all objects such as rocks, toys and wire which can be thrown by the machine.
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.
- Use extra care when handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel when engine is running. Do not smoke.
 - Never refuel or drain the machine indoors.
- Check that the operator's presence controls, safety switches and shields are attached and functioning properly. Do not operate unless they are functioning properly.

WS68074,0000548-19-31MAR21

Operating Safely

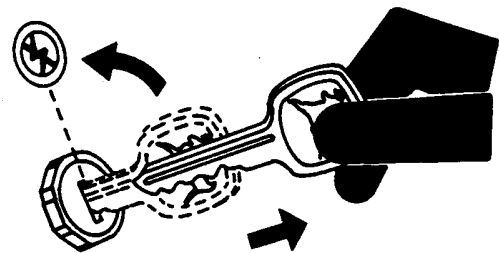
- Never run an engine in an enclosed area where dangerous carbon monoxide fumes can collect.
 - Only operate in good light, keeping away from holes and hidden hazards.
- Be sure all drives are in neutral and parking brake is engaged before starting engine. Only start engine from the operator's position. Use seat belts if provided.
- Slow down and use extra care on hillsides. Be sure to travel in the recommended direction on hillsides. For this machine, drive up and down hillsides, not across. Turf conditions can affect the machine's stability. Use caution while operating near drop-offs.
- Slow down and use caution when making turns and when changing directions on slopes.
- Never raise deck with the blades running
- Never operate with the PTO shield, or other guards, not securely in place. Be sure all interlocks are attached, adjusted properly, and functioning properly.
- Never operate with the discharge deflector raised, removed or altered, unless using a grasscatcher. Do not operate mower without discharge chute or entire grasscatcher in place.
- Do not change the engine governor setting or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.
- Stop on level ground, lower implements, disengage drives, engage parking brake, and shut off engine before leaving the operator's position for any reason including emptying the grasscatchers or unclogging the chute.
- Stop equipment and inspect blades after striking objects or if an abnormal vibration occurs. Make necessary repairs before resuming operations.
- Keep hands and feet away from the cutting units.
- Look behind and down before backing up to be sure of a clear path.
- Never carry passengers and keep pets and bystanders away.
- Slow down and use caution when making turns and crossing roads and sidewalks. Stop blades if not mowing. Watch for traffic when operating near or crossing roadways.
- Be aware of the mower discharge direction and do not point it at anyone.
- Do not operate the machine while under the influence of alcohol or drugs.
- Use care when loading or unloading the machine into or off of a trailer or truck.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields

are in good condition and fastened in place. Make any necessary adjustments before you operate.

- Before using, always visually inspect to see that the blades, blade bolts and the mower assembly are not worn and damaged. Replace worn and damaged blades and bolts in sets to preserve balance.
- Keep safety labels visible when installing accessories and attachments.
- Do not wear radio or music headphones. Safe service and operation require your full attention.
- When machine is left unattended, stored, or parked, lower the mower deck unless a positive mechanical lock is used.
- Mow only in daylight or in good artificial light.

WS68074,0000549-19-31MAR21

Park Machine Safely



TS230—UN—24MAY89

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.

DX,PARK-19-04JUN90

Avoid High-Pressure Fluids



X9811—UN—23AUG88

Inspect hydraulic hoses periodically – at least once per

year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

DX,FLUID-19-12OCT11

Checking Mowing Area



TCAL41689—UN—08APR13

- Clear mowing area of objects that might be thrown. Keep people and pets out of mowing area.
- Low-hanging branches and similar obstacles can injure the operator or interfere with mowing operation. Before mowing, identify potential obstacles such as low-hanging branches, and trim or remove those obstacles.
- Study mowing area. Set up a safe mowing pattern. Do not mow where traction or stability is doubtful.
- Test drive area with mower lowered but not running. Slow down when you travel over rough ground.

AP43109,000028C-19-15APR13

Rotating Blades are Dangerous

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

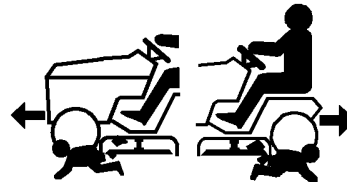


TCAL43410—UN—15MAR13

- Rotating blades can cut off arms and legs, and throw objects. Failure to observe safety instructions could result in serious injury or death.
- Keep hands, feet and clothing away from mower deck when engine is running.
- Be alert at all times, drive forward and in reverse carefully. People, especially children can move quickly into the mowing area before you know it.
- Before backing up, stop mower blades or attachments and look down and behind the machine carefully, especially for children.
- Do not mow in reverse.
- Shut off blades when you are not mowing.
- Park machine safely before leaving the operator's station for any reason including emptying the grasscatchers or unplugging the chute.

UP00731,000009E-19-04SEP13

Protect Children



MXAL41929—UN—18FEB13

- Death or serious injury can occur when young children associate having fun with a lawn mowing machine simply because someone has given them a ride on a machine.
- Children are attracted to lawn mowing machines and mowing activities. They don't understand the dangers of rotating blades or the fact that the operator is unaware of their presence.
- Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Tragic accidents with children can occur if the operator is not alert to the presence of children, especially when a child approaches a machine from behind. Before and while backing up, stop mower blades and look down and behind the machine carefully, especially for children.
- Never carry children on a machine or attachment, even with the blades off. Do not tow children in a cart

or trailer. They can fall off and be seriously injured or interfere with safe machine operation.

- Never use the machine as a recreational vehicle or to entertain children.
- Never allow children or an untrained person operate the machine. Instruct all operators not to give children a ride on the machine or in an attachment.
- Keep children indoors, out of the mowing area, and in the watchful eye of a responsible adult, other than the operator, when a mower is being operated.
- Stay alert to the presence of children. Never assume that children will remain where you last saw them. Turn the machine off if a child enters the work area.
- Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

OUO1023,0000037-19-21FEB13

Stay Clear of Rotating Drivelines



TS1644—UN—22AUG95

Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place at all times. Make sure rotating shields turn freely.

Wear close-fitting clothing. Stop the engine and be sure that all rotating parts and drivelines are stopped before making adjustments, connections, or performing any type of service on engine or machine driven equipment.

DX,ROTATING-19-18AUG09

Avoid Tipping



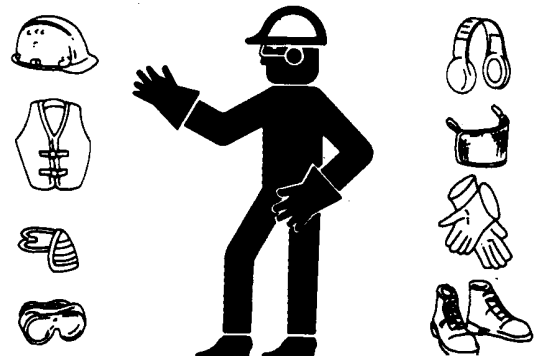
TCAL47141—UN—12APR13

- Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution.

- Be aware that mechanical front wheel drive (MFWD) can improve access to dangerously sloped terrain, thereby increasing the possibility of a tipover.
- Drive up and down a hill - not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Do not mow or operate machine on wet grass. Tires may lose traction. Tires may lose traction on slopes even though the brakes are functioning properly.
- Choose a low ground speed so you will not have to stop or shift while on a slope.
- Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill.
- Avoid starting, stopping or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly, straight down the slope.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Do not operate machine near drop-offs, ditches, embankments, or bodies of water. The machine could suddenly roll over if a wheel goes over the edge or the edge caves in. Leave a safety area between the machine and any hazard.
- Danger of tipping is increased greatly with tires in narrow tread setting and driving at high speed.
- Follow the manufacturer's recommendations for wheel weights or counterweights for added stability when operating on slopes or using front or rear mounted attachments. Remove weights when not required.

UP00731,000009B-19-04SEP13

Wear Protective Clothing



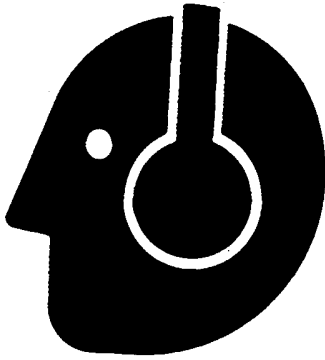
TS206—UN—15APR13

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

DX,WEAR2-19-03MAR93

Protect Against Noise



TS207—UN—23AUG88

There are many variables that affect the sound level range, including machine configuration, condition and maintenance level of the machine, ground surface, operating environmental, duty cycles, ambient noise, and attachments.

Exposure to loud noise can cause impairment or loss of hearing.

Always wear hearing protection. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

DX,NOISE-19-03OCT17

Store Attachments Safely



TS219—UN—23AUG88

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.

DX,STORE-19-03MAR93

Maintenance and Storage

- Never operate machine in a closed area where dangerous carbon monoxide fumes can collect.
- When machine is to be parked, stored or left

unattended, lower the cutting means unless a positive mechanical lock is used.

- Disengage drives, lower implement, lock parking brake, stop engine and remove key or disconnect spark plug (for gas engines). Wait for all movement to stop before adjusting, cleaning or repairing.
- Clean grass and debris from cutting units, drives, mufflers, and engine to help prevent fires. Clean up oil or fuel spillage.
- Let engine cool before storing and do not store near flame.
- Shut off fuel while storing or transporting. Do not store fuel near flames or drain indoors.
- Park machine on level ground. Never allow untrained personnel to service machine. Understand service procedure before doing work.
- Use jack stands or lock service latches to support components when required. Securely support any machine elements that must be raised for service work.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components or springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers back and forth.
- Disconnect battery or remove spark plug (for gas engines) before making any repairs. Disconnect the negative terminal first and the positive last. Reconnect positive first and negative last.
- Use care when checking blades. Wrap the blades or wear gloves, and use caution when servicing them. Only replace blades. Never straighten or weld them.
- Keep hands, feet, clothing, jewelry and long hair away from moving parts. If possible, do not make adjustments with the engine running.
- Charge batteries in an open well ventilated area, away from spark and flames. Unplug charger before connecting or disconnecting from battery. Wear protective clothing and use insulated tools.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- Check grasscatcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary. Grasscatcher components are subject to wear, damage, and deterioration which could expose moving parts or allow objects to be thrown.
- Keep all nuts and bolts tight, especially blade attachment bolts, to be sure the equipment is in safe working condition.
- Check brake operation frequently. Adjust and service as required.

- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.

WS68074,000054A-19-31MAR21

Safety Labels

Replace Safety Signs

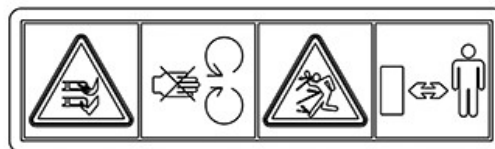


TS201—UN—15APR13

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

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

DX,SIGNS-19-18AUG09



LV25389—UN—17MAY16

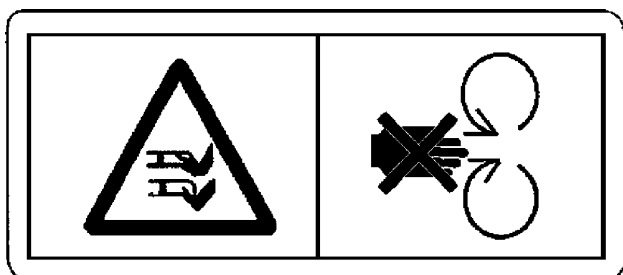
Safety Label - M138631



LV27158—UN—04JAN17

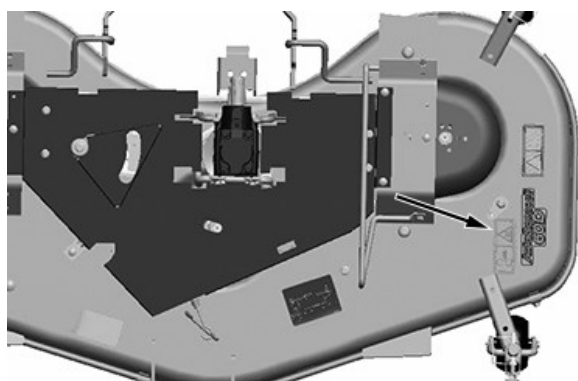
60 mower deck shown, 54 is similar

Safety Labels



MXT009108—UN—21SEP13

Safety Label - M118041



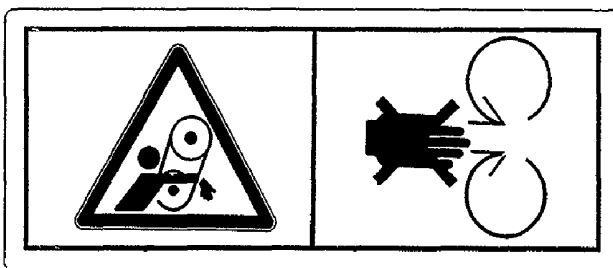
LVP12158—UN—21DEC21

60 inch mower deck shown, 54 inch is similar

DANGER

To avoid injury from rotating blades and thrown objects:
Keep hands and feet away from rotating blades.

Keep bystanders a safe distance away. Do not operate the mower without discharge chute or entire grass catcher in place.



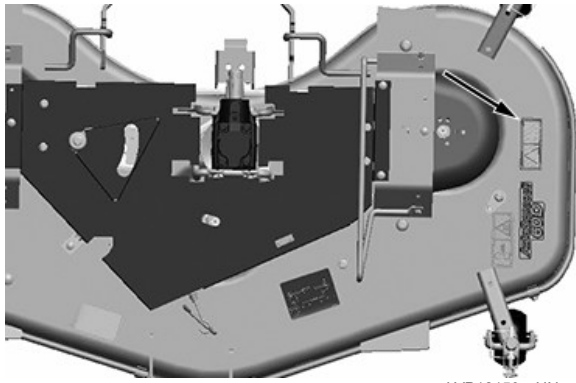
MXT009107—UN—21SEP13

Safety Label - M136436

DANGER

ROTATING BLADE

Do not put hands or feet under or into mower when the engine is running.



LVP12159—UN—21DEC21

60 inch mower deck shown, 54 inch is similar

Do not put hands or feet under or into mower when the engine is running.

THROWN OBJECTS

Before mowing, clear area of objects that is thrown by blade.

Do not operate the mower without discharge chute or entire grass catcher in place.

AL61114,0000762-19-21DEC21

DANGER

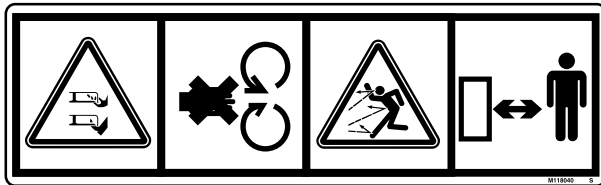
ROTATING BLADE

Do not put hands or feet under or into mower when the engine is running.

THROWN OBJECTS

Before mowing, clear area of objects that is thrown by blade.

Do not operate the mower without discharge chute or entire grass catcher in place.



LV18938—UN—28AUG13

Safety Label - M118040



LV27152—UN—04JAN17

60 mower deck shown, 54 is similar

DANGER

ROTATING BLADE

Assembly

Required Equipment

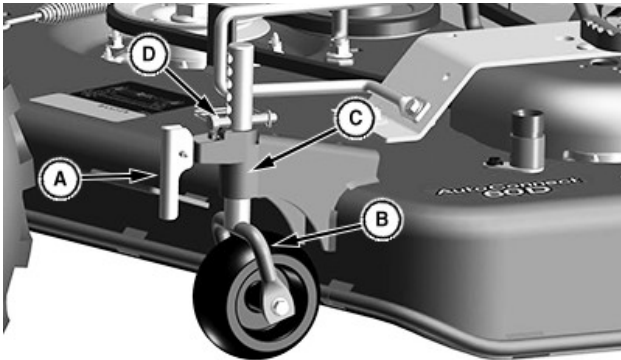
Before installing the mower, the following equipment must be installed on the machine. See your John Deere dealer for ordering information.

- Mower Lift Kit
- Independent Hydraulic Lift Kit (Optional)

CAUTION: Machine component or attachment is heavy. Use a safe lifting device with correct load capacity rating to lift, install or remove component or attachment.

UP00731,000011F-19-03JAN17

Install Wheels



LV27150—UN—21DEC16

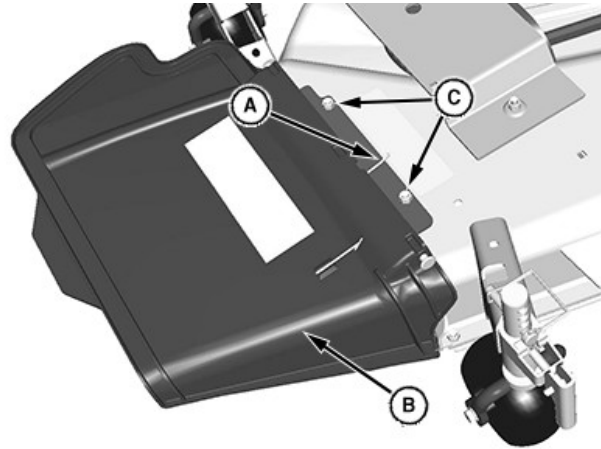
A—Wheel
B—Wheel Bracket
C—Handle
D—Spring Pin

1. Remove mower from crate using chain hoist or other suitable device.
2. Install wheels (A) by sliding wheel shaft up through wheel bracket (B).
3. Press downward on handles (C) to lock wheels. Wheels must be in the unlocked position before installing mower on tractor.
4. Install spring pin (D) in each wheel shaft.

UP00731,0000120-19-21DEC16

Install Discharge Chute

Install Discharge Chute (54D)



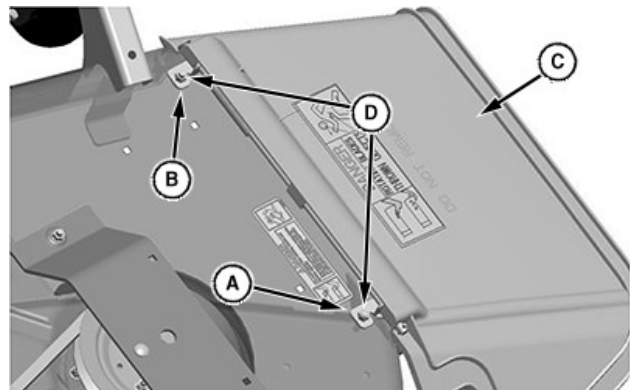
LV23983—UN—04AUG15

Discharge Chute (54D)

A—Spring
B—Chute Assembly
C—Locknuts (M8)

1. Ensure correct placement of spring (A).
2. Position the discharge chute assembly (B) on the mower and secure with two M8x16 carriage head bolts and two M8 locknuts (C).

Install Discharge Chute (60D)



LV23984—UN—04AUG15

Discharge Chute (60D)

A—Rear Hinge
B—Front Hinge
C—Chute Assembly
D—Nuts

1. Attach rear hinge (A) to deck with nut. Do not tighten.
2. Pre-load spring with one hand and attach front hinge (B) to deck with nut. Do not tighten.
3. Pull discharge chute assembly (C) away from deck as nuts (D) are tightened to help align hinges.

UP00731,000036C-19-28JUL15

Install Mower

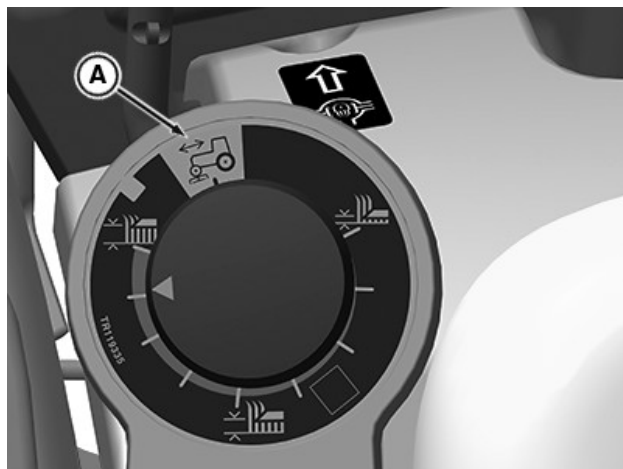
Install Mower

NOTE: If equipped, remove the front weights before installing the mower deck. Replace the weights after the mower deck is installed.



LVP11309—UN—09SEP20

Numeric Label (1 - family shown, 2 - family is similar)

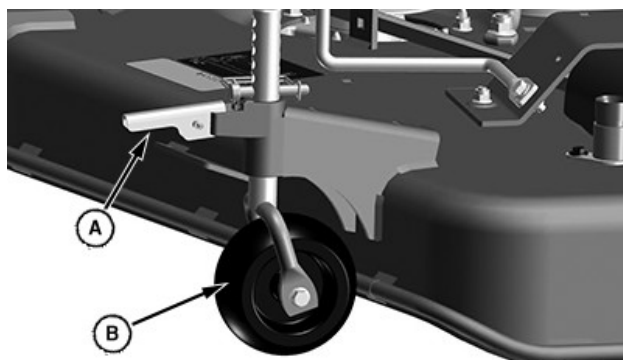


LVP11152—UN—19AUG20

Symbolic Label (1 - family shown, 2 - family is similar)

A—Install Position

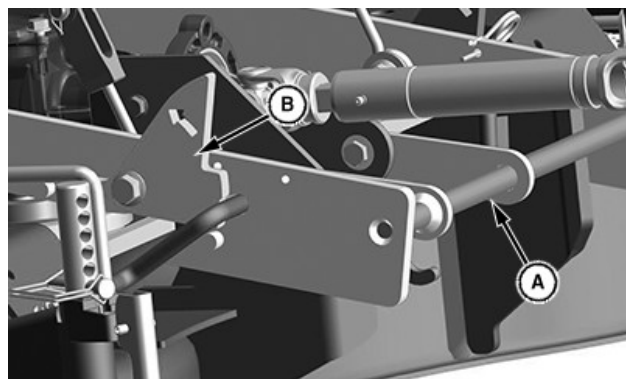
1. Set the mower height control to the install position (A).



LV27027—UN—09DEC16

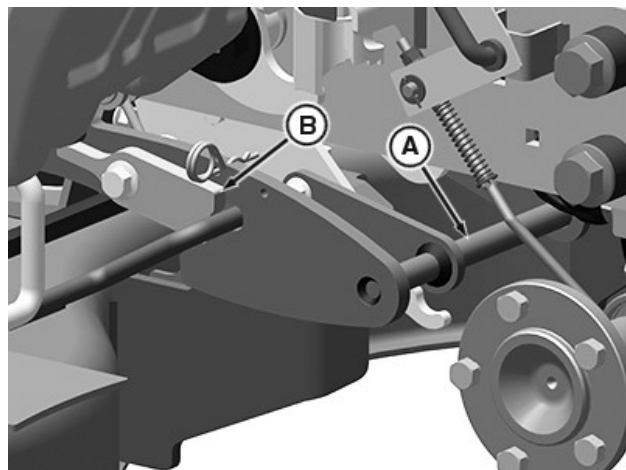
A—Handle
B—Wheel

2. Raise handle (A) to release the lock on each gauge wheel (B). The mower rests fully on the ground.
3. Ensure that the mower deck is sitting on firm, level ground. A smooth surface allows the mower to be pushed along by the tractor. Inflate tires to 20 PSI.



LV27143—UN—16DEC16

Rear Lock Assembly (—MY19)



LVP11520—UN—15OCT20

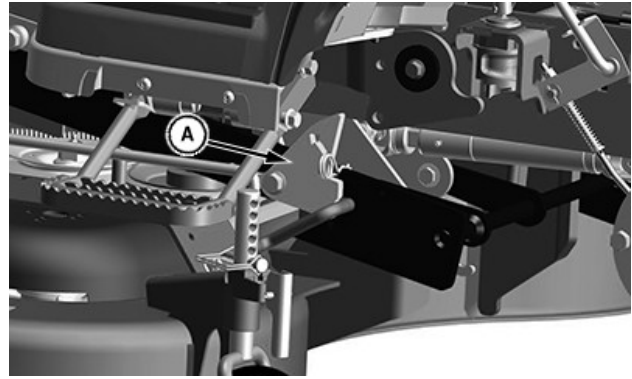
Rear Lock Assembly (MY20—)

A—Rear Lock Assembly
B—Locked

4. Ensure the rear lock assembly (A) is in the locked (B) position. The lock assembly automatically unlocks as the machine engages the mower, and locks after full engagement.
5. Lower the mower lift arms using the SCV or the rockshaft lever control.
6. Shift the machine PTO selector to the rear PTO to allow the mid-PTO and driveshaft to turn freely and engage the mower gear case with minimal resistance.



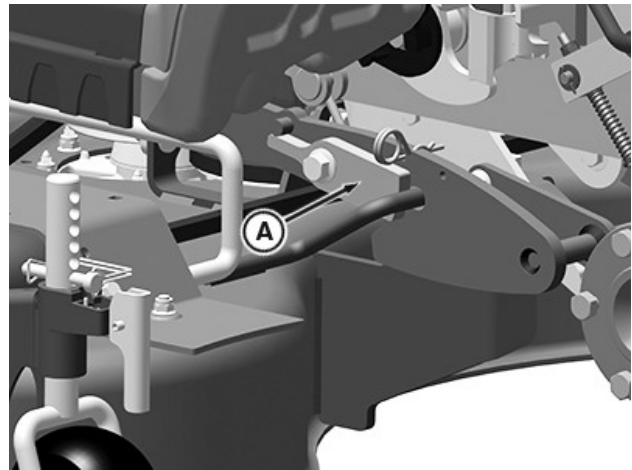
LV27016—UN—09DEC16
Mower Deck (—MY19) Shown, MY20— is Similar



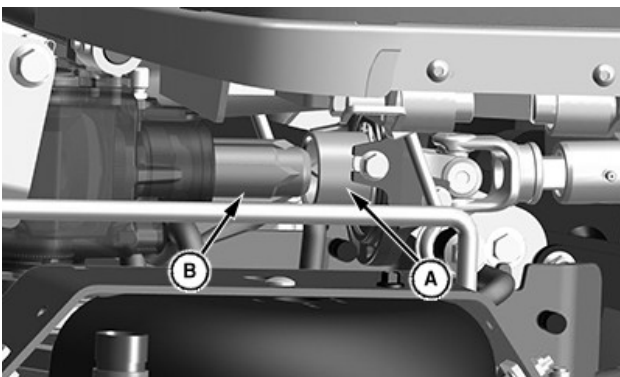
LV27019—UN—09DEC16
—MY19

A—Guide Bar

7. Engage the tractor MFWD with the machine in low range. Drive the machine straight toward the rear of the mower while aligning the inside of the left front tire with the guide bar (A).
8. Drive the tractor onto the mower deck with the inside of the left tire against the guide bar.
9. Slowly drive the tractor forward until the mower begins to pull along ground for approximately 102 mm (4 inches) behind front wheels.
10. If mower deck pulls forward early or appears to be caught in the lift system, stop the tractor, reverse slightly, and move forward again. If mower deck still does not properly attach, stop the tractor, lock the park brake, dismount the tractor, and determine the cause of the problem.



LVP11521—UN—15OCT20
MY20—



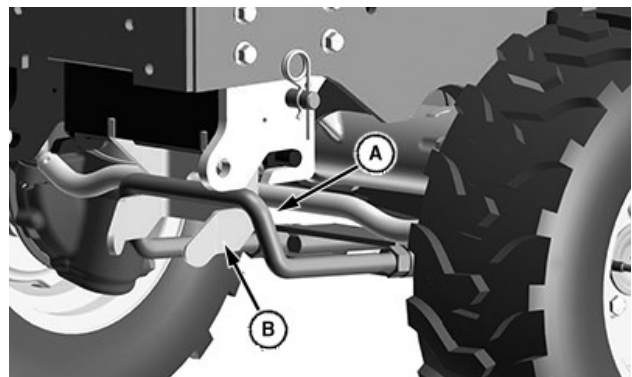
A—PTO Coupler
B—Gear Box Coupler

LV27020—UN—09DEC16

11. PTO coupler (A) aligns with the gear box coupler (B).

A—Lock

12. Dismount the tractor and ensure locks (A) on both sides have dropped to the locked position. If necessary, pull the mower rearward to engage the lock and the coupler. On first installation, mower may not lock in position if front link is too short.
13. Install the cotter pins in the locked position.



LV27018—UN—13DEC16
Forward Link (—MY19) Shown, MY20— is Similar

A—Forward Lift Link
B—Hanger

14. Make sure the forward lift link (A) is nested into the hangers (B) per specification.

Specification

Forward Lift Link (A)—Gap 3 mm
0.125 in

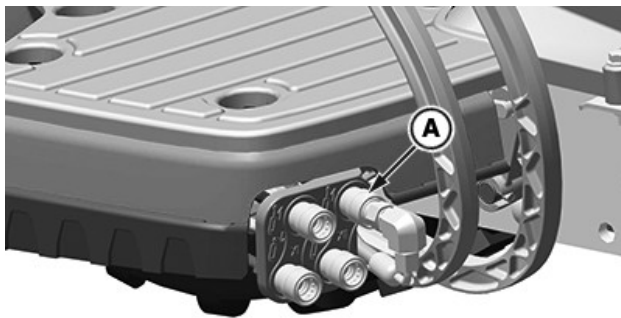
15. Start the engine and lift the mower to full height.
16. Lock down all gauge wheels by snapping the handles down and ensuring the lock pins are fully seated in the vertical rods.

PP71895,0001307-19-16OCT20

Connect Hydraulic Hose for Mower Lift

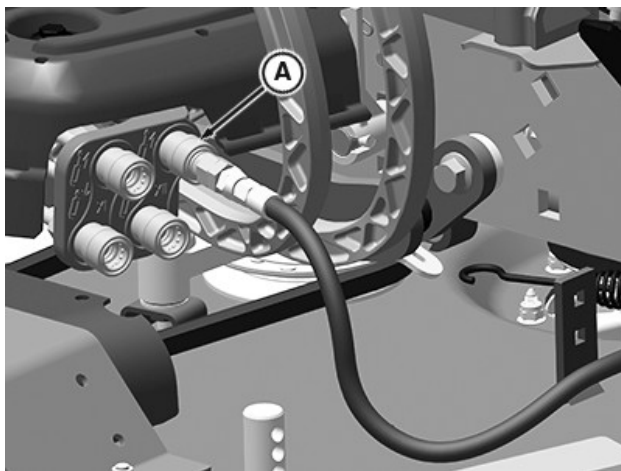
Connect Hydraulic Hose for SCV Hydraulic Mower Lift

1. Disconnect all loader SCV hose from SCV ports.



LV30376—UN—11OCT18

Hydraulic Port (2 - family tractor)



LVP11522—UN—15OCT20

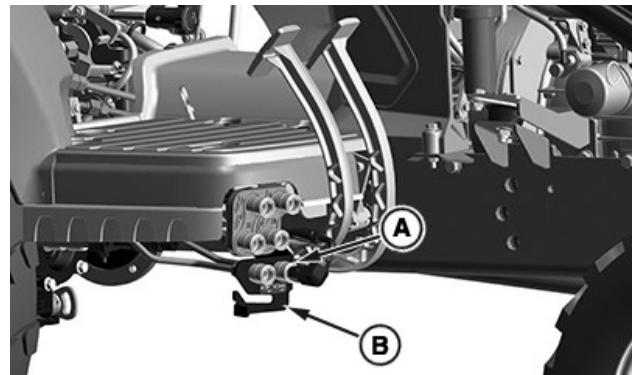
Hydraulic Port (1 - family tractor)

A—Port

2. Connect the hydraulic mower lift hose to port (A).

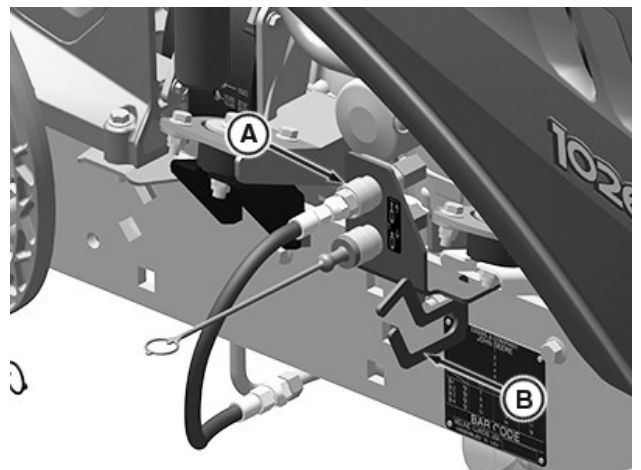
Connect Hydraulic Hose for Third Function Mower Lift

1. Disconnect all loader SCV and third function hose from SCV ports.



LV30378—UN—15OCT18

2 - Family Shown, 1 - Family (—MY19) is Similar



LVP11540—UN—16OCT20

1 - Family (MY20—)

A—Third Function Mower Lift Hose
B—Storage Bracket

2. Connect the third function mower lift hose to the SCV port (A).
3. When not in use, store the third function lift hose in the storage bracket (B)

DN39857,000031B-19-16OCT20

Adjust Mower

Preparing Machine

Required Equipment:

- Mower Lift Kit
- Independent Hydraulic Lift Kit (Optional)

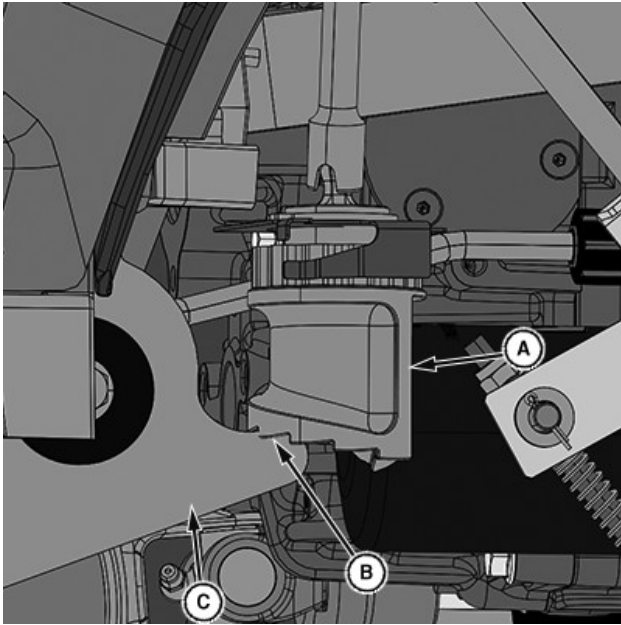
Machine Setup:

1. Park machine safely.
2. Follow machine operator's manual instructions to check tire pressure.
3. Assemble the mower deck per assembly instructions in operator's manual.

UP00731,0000106-19-21DEC16

Adjusting Mower Level (Side-to-Side)

1. Park machine on a flat, level surface.
2. Lock park brake.
3. Disengage mower blades.



LV29980—UN—04APR18

A—Height of Cut Cam
B—Fifth Step
C—Bellcrank

4. Raise the mower deck. Turn the height-of-cut control dial until the fifth step (B) on the height of cut cam (A) is oriented towards the bell crank (C). Lower the mower deck fully.

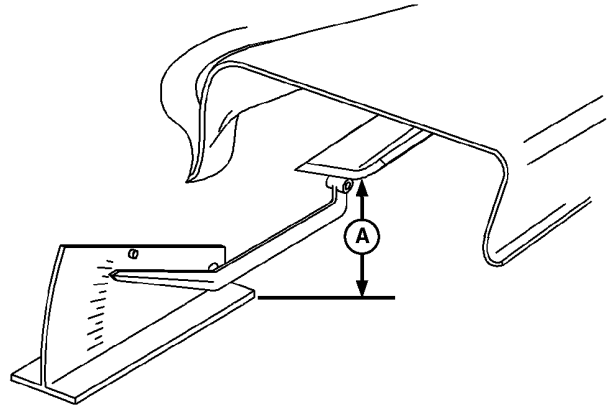
CAUTION: Rotating blades are dangerous. Before adjusting or servicing mower:

- To prevent the engine from starting accidentally, disconnect the negative (-) battery cable.

- Always wear gloves when handling mower blades or working near blades.

5. Stop the engine, remove the key, and hang a "DO NOT OPERATE" tag in the operator station.
6. Wait for the engine and all moving parts to stop before leaving the seat.
7. Disconnect the negative (-) battery cable.

NOTE: Do not allow the mower wheels to contact the ground during leveling.

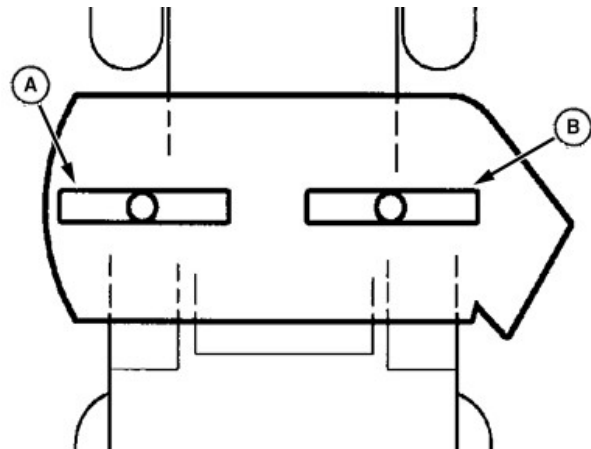


LV18692—UN—20AUG13

Using Leveling Gauge

A—Level Surface

8. Measure from the outside blade tip to the level surface (A).



LV24008—UN—04AUG15

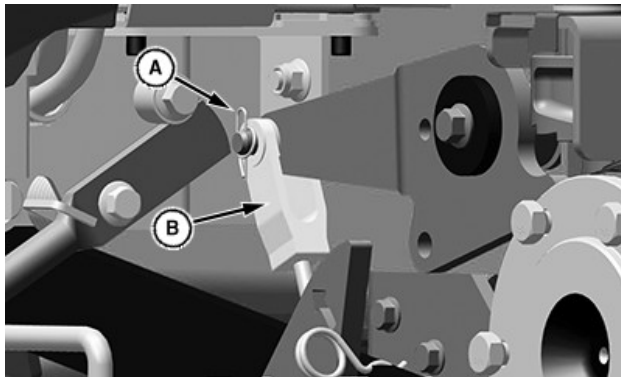
A—Left Blade
B—Right Blade

9. Turn the left blade (A) as shown. Hold drive belt and turn the right blade (B) as shown. Take blade tip-to-surface measurement on both blades. The difference between both measurements must not be greater than specification.

Specification

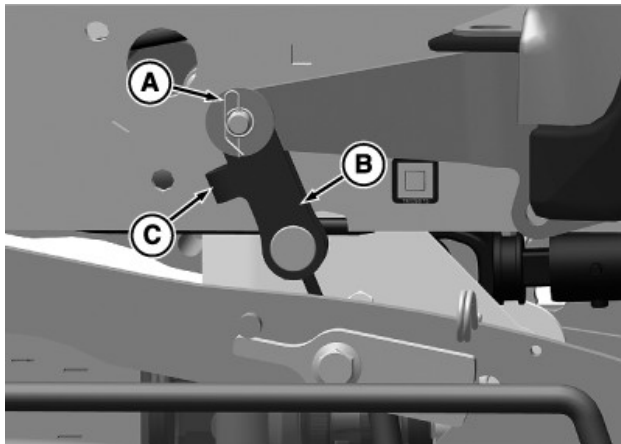
Side-to-Side—Difference. 3 mm
0.125 in

IMPORTANT: Avoid damage! For MY20— tractors, the protrusion (C) must face towards the front of the tractor to avoid damage to parts.



LV27024—UN—15DEC16

Turnbuckle (—MY19) Shown



LV30785—UN—10AUG21

Turnbuckle (MY20—) Shown

A—Retaining Pins
B—Turnbuckle
C—Protrusion

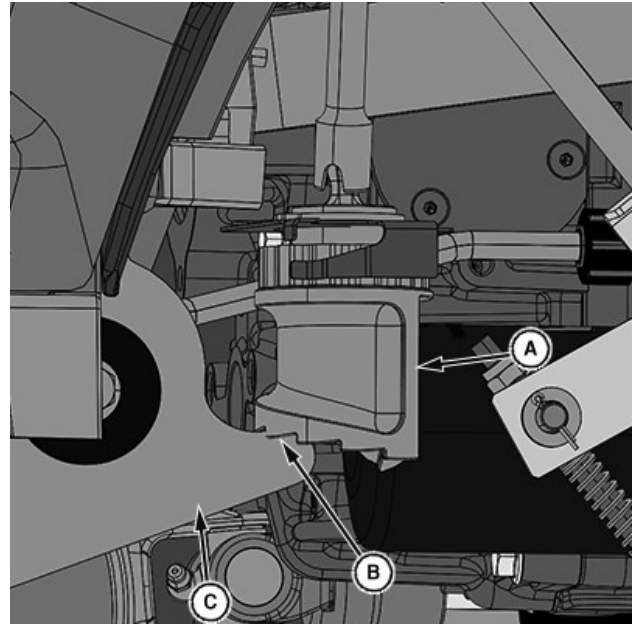
10. To adjust the side-to-side level:

- a. Remove the retaining pins (A) from the left and right rear turnbuckles (B).
- b. Adjust one turnbuckle at a time, and check the blade level.
- c. When adjustment is complete, install the retaining pins.

UP00731,000010C-19-12AUG21

Adjusting Mower Level (Front-to-Rear)

1. Park machine on a flat, level surface.
2. Lock the park brake.
3. Disengage the mower blades.



LV29980—UN—04APR18

A—Height of Cut Cam
B—Fifth Step
C—Bellcrank

4. Raise the mower deck. Turn the height-of-cut control dial until the fifth step (B) on the height of cut cam (A) is oriented towards the bell crank (C). Lower the mower deck fully.

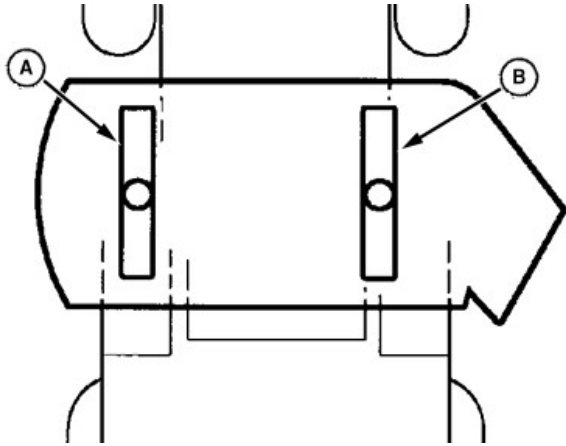
CAUTION: Rotating blades are dangerous. Before adjusting or servicing mower:

- To prevent the engine from starting accidentally, disconnect the negative (-) battery cable.
- Always wear gloves when handling mower blades or working near blades.

5. Stop the engine, remove the key, and hang a "DO NOT OPERATE" tag in the operator station.
6. Wait for the engine and all moving parts to stop before leaving the operator seat.
7. Disconnect the negative (-) battery cable.

NOTE: Adjust the front blade of the mower lower than the rear blade of the mower.

Do not allow the mower wheels to contact the ground during leveling.



LV24010—UN—04AUG15

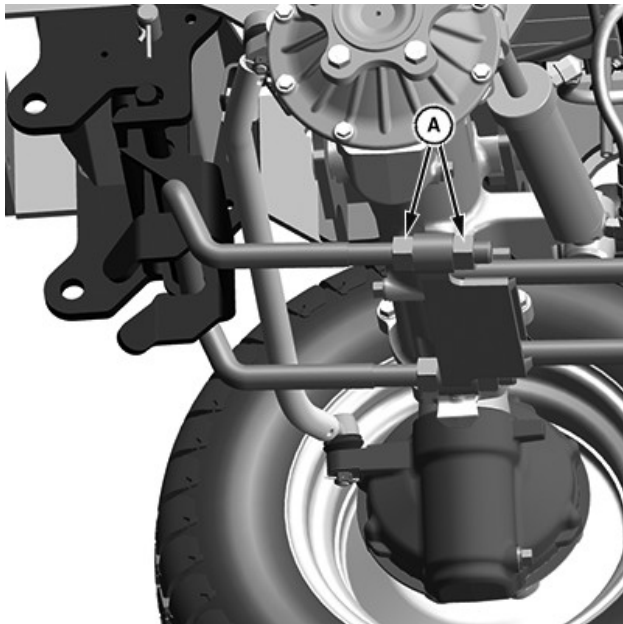
A—Left Blade
B—Right Blade

8. Turn the left blade (A) as shown. Hold the drive belt and turn the right blade (B) as shown. Take blade tip-to-surface measurement on both ends of each blade and compare to specification:

Specification

Blade Tip Front-to-Rear (front is the lower end)—Height

Difference. 3—6 mm
0.125—0.236 in



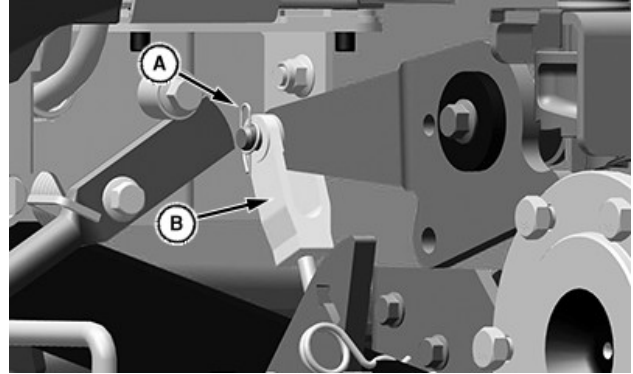
LV29982—UN—04APR18

A—Draft Link Nut (4 used)

9. If the front-to-rear difference is within specification, tighten draft link nuts (A) and go to step 12.
10. If the front-to-rear difference is greater than 13 mm (0.50 in), loosen draft link nuts (A).
 - a. To raise the front of the deck, shorten the draft link.

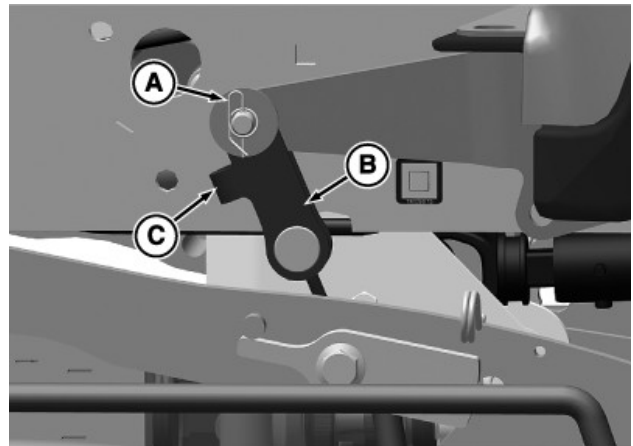
- b. To lower the front of the deck, lengthen the draft link.
- c. Return to step 4 to measure the front-to-rear level.

11. If the front-to-rear difference is less than 13 mm (0.50 in) but greater than 3 mm (0.125 in), tighten the draft link nuts (A).



LV27024—UN—15DEC16

Turnbuckle (—MY19) Shown



LV30785—UN—10AUG21

Turnbuckle (MY20—) Shown

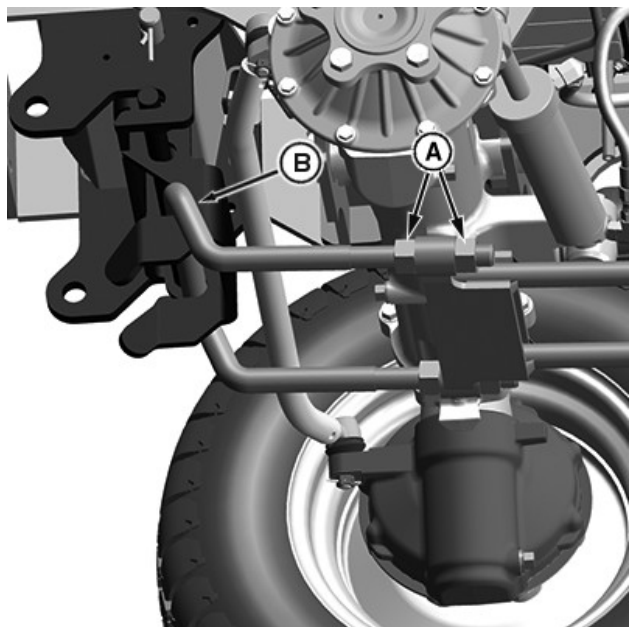
A—Retaining Pins
B—Turnbuckle
C—Protrusion

- a. Connect the negative battery cable.
- b. Lower the deck to the ground, stop the engine, and remove the key.

IMPORTANT: Avoid damage! For MY20—tractors, the protrusion (C) must face towards the front of the tractor to avoid damage to parts.

- c. Remove the retaining pins (A) and pivot pin securing both turnbuckles (B) to the lift arms.
- d. Shorten both turnbuckle assemblies an equal number of turns to raise the rear of the deck.

- e. Lengthen both turnbuckle assemblies an equal number of turns to lower the rear of the deck.
 - f. When the adjustment is complete, install the retaining pins.
 - g. Return to step 4 to measure the front-to-rear level.
12. Connect the negative battery cable.
 13. Lower the deck to the ground, stop the engine, and remove the key.



LVP11523—UN—15OCT20

Draft Link (—MY19) Shown, MY20— is Similar

A—Draft Link Nut (4 used)
B—Draft Link Gap

14. Measure the draft link gap (B) and compare to specifications.

Specification

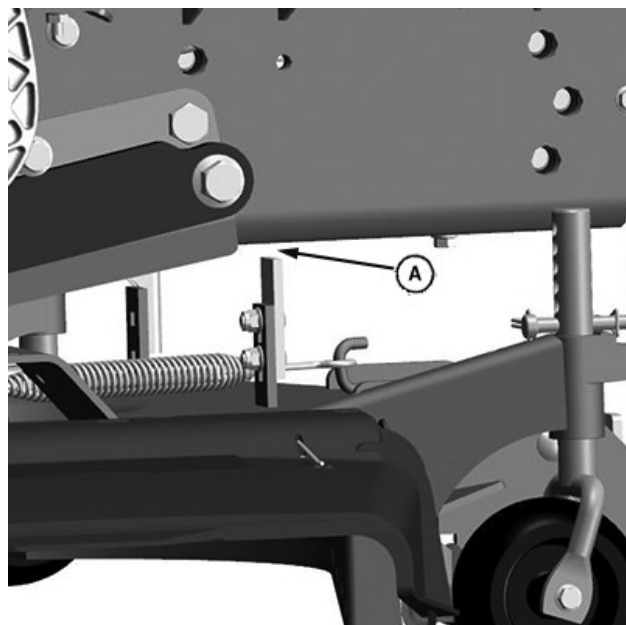
Draft Link Gap (B)—Distance. 3 mm
0.125 in

15. If the draft link gap (B) is not to specification, loosen the draft link nuts (A).
 - a. To decrease the draft link gap, shorten the draft link.
 - b. To increase the draft link gap, lengthen the draft link.
 - c. Return to step 4 to measure the front-to-rear level.
16. If the draft link gap (B) is to specification, the front-to-rear leveling procedure is complete.

UP00731,0000373-19-12AUG21

Adjusting Deck Height

1. Ensure that the mower deck is level.



LV29984—UN—04APR18

Mower Stop (2 - family tractor)



LVP11525—UN—15OCT20

Mower Stop (1 - family tractor)

A—Gap

2. Raise the mower deck fully and measure the mower stop-to-tractor frame gap (A) between the mower lift stop and the tractor frame. Compare the measurement to specification:

Specification

Mower Stop-to-Tractor Frame
Gap (A)—Distance. 3—13 mm
0.125—0.5 in

3. If the mower stop-to-tractor frame gap is to specification, the deck adjustment is complete.

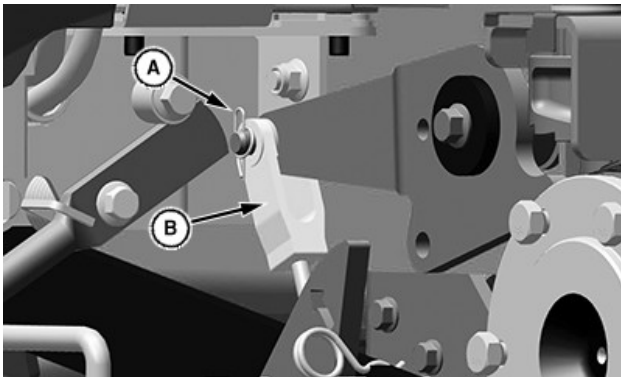
NOTE: If adjustments are needed beyond this point, perform the deck side-to-side and the front-to-rear procedures after the mower stop-to-tractor frame gap is successfully set.

If the mower stop-to-tractor frame gap cannot be achieved, the rockshaft linkage and or the lift strap linkage are out of adjustment. See your John Deere dealer or other service provider for the proper adjustment procedure.

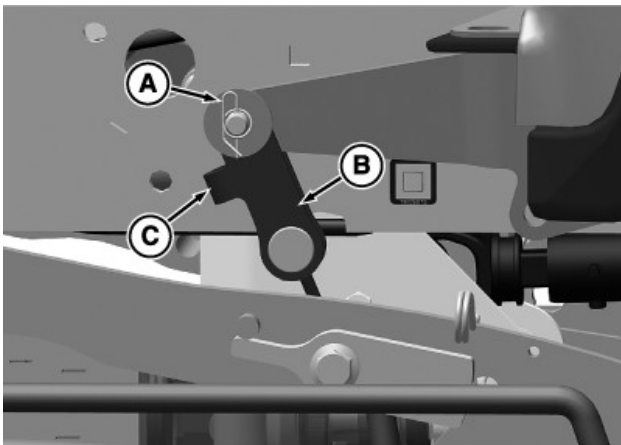
4. If the mower stop-to-tractor frame gap is not to specification:

- Lower the mower deck to the ground.
- Stop the engine and remove key.
- Wait for the engine and all moving parts to stop before leaving the operator seat.

IMPORTANT: Avoid damage! For MY20—tractors, the protrusion (C) must face towards the front of the tractor to avoid damage to parts.



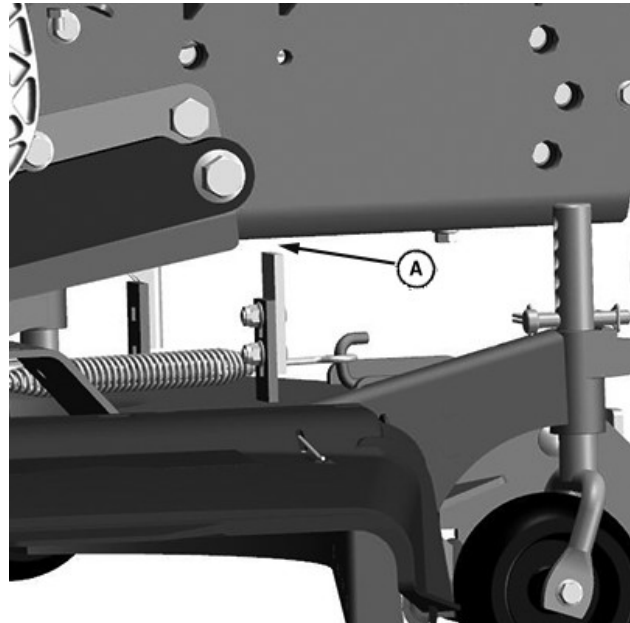
Turnbuckles (—MY19) Shown



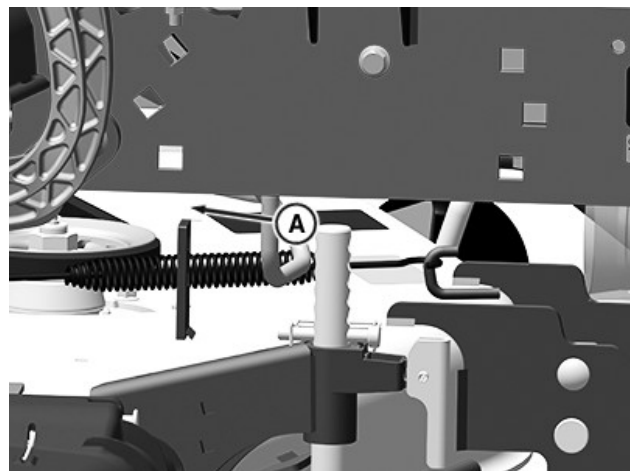
Turnbuckle (MY20—) Shown

A—Retaining Pins
B—Turnbuckle
C—Protrusion

- Remove the retaining pins (A) and pivot pin securing both turnbuckles (B) to the lift arms.
- To reduce the gap, shorten the turnbuckle assemblies an equal number of turns.
- To increase the gap, lengthen the turnbuckle assemblies an equal number of turns.
- Install the turnbuckles on the lift arms.
- Raise the mower deck fully, stop engine, and remove key.



Mower Stop (2 - family tractor)



Mower Stop (1 - family tractor)

A—Gap

- Measure the mower stop-to-tractor frame gap (A) between the mower lift stop and the tractor frame. Compare the measurement to specification:

Specification

Mower Lift Stop-to-Tractor	
Frame Gap (A)—Distance.	3—13 mm 0.125—0.5 in

- j. Repeat steps a - i until mower stop-to-tractor frame gap is to specification.
5. Perform the side-to-side and the front-to-rear adjustment procedure.

- c. Install snap lock pin (B) in hole just above gauge wheel bracket.
- d. Repeat for remaining gauge wheels.

UP00731,000010E-19-09DEC16

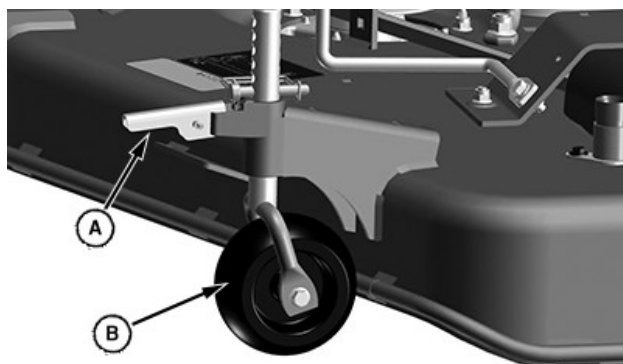
UP00731,000010D-19-21JUL25

Adjusting Mower Wheels

IMPORTANT: Avoid damage! If mower wheels are adjusted incorrectly, the mower deck can be damaged:

- **Wheels must not ride on ground supporting mower weight.**
- **Check wheel adjustment each time cutting height is changed.**

1. Park machine on a level surface, not on a slope.
2. Disengage mower blades.
3. Raise mower, turn the height-of-cut control to the desired cutting height and lower mower.
4. Lock park brake.
5. Stop engine and remove key.
6. Wait for engine and all moving parts to stop before leaving operator seat.
7. Set gauge wheel height:



LV27027—UN—09DEC16

A—Gage Wheel Lock
B—Lock Pin

- a. Release gauge wheel lock (A).
- b. Adjust wheel assembly to 9.5 mm (3/8 in) distance between gauge wheels and ground.

IMPORTANT: Avoid damage! Ensure that at least one hole remains above lock bracket. In extreme mowing conditions, retract wheels completely to avoid damage.

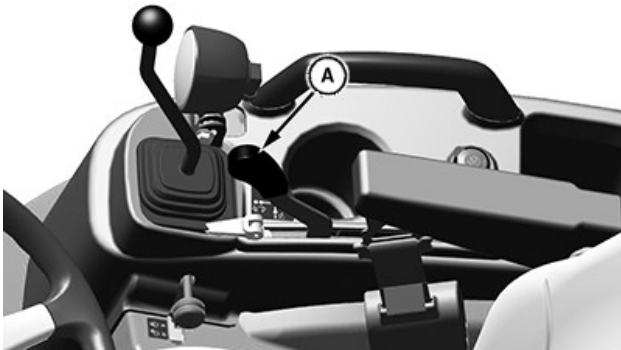
Operate Mower

Raise and Lower Mower

The machine can be equipped with a mechanical or hydraulic mower lift control system. The height-of-cut control is the same for both systems. All controls are described below.

Mechanical Lift System

IMPORTANT: Avoid Damage when using the mechanical lift system. To prevent unintended operation, do not connect any implement or attachment to the three point hitch when the machine is being used for mowing operations.



A—Rock Shaft Lever

LV27021—UN—13DEC16

A mechanical mower lift kit is connected to the machine rock shaft and operates with the rock shaft control lever (A). See the machine Operator's Manual for operating instructions for your specific model.

Hydraulic Mower Lift System



A—Mower Lift Switch

LV27149—UN—21DEC16

A hydraulic mower lift system operates independently of the machine rock shaft and is operated by the machine mower lift switch (A). See the machine Operator's Manual for operating instructions for your specific model.

To raise the mower:

1. Pull the mower lift switch up to raise the mower.

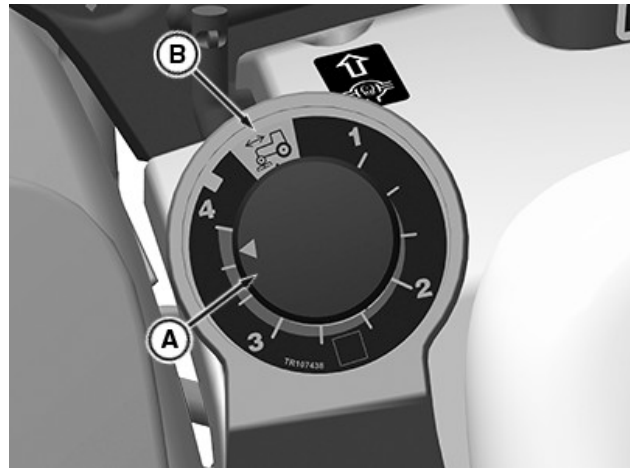
2. Push the mower lift switch down to lower the mower.

UP00731,000010A-19-21DEC16

Setting Height of Cut

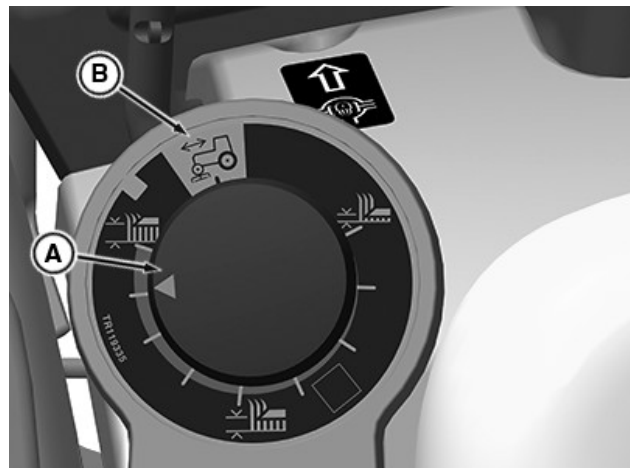
NOTE: The label on the height-of-cut knob can be either numeric or symbolic.

NOTE: The numbers on the height-of-cut dial are for reference only. They do not represent a one-to-one ratio between the dial and the deck cutting height.



LVP11308—UN—09SEP20

Numeric Label (1 - family shown, 2 - family is similar)



LVP11154—UN—19AUG20

Symbolic Label (1 - family shown, 2 - family is similar)

A—Height-of-Cut Control
B—Install Position

The mower height-of-cut is adjusted with the control (A) on the left side of the operator. Raise and hold the mower to its highest position using either type of the lift system and adjust the mower cutting height knob as follows:

- Install (B) - Turn the control to this position to lower the mower lift mechanism whenever removal or installation of the mower is required.

NOTE: Do NOT lower lift system after adjusting the height-of-cut to the desired level.

- Height-of-Cut Range 1—4 or Low to High - Turn the control to any position in this range to select the desired height-of-cut.

UP00731,000010B-19-15OCT20

Engaging Mower

1. Review instructions on using mid-PTO included in your machine operator's manual.
2. Follow machine operator's manual instructions to engage mid-PTO and mower.

UP00731,0000069-19-26AUG13

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 all machine parts are stopped before raising hopper top or removing chutes.
1. Park machine safely. Wait for all moving parts to stop before getting off to inspect machine.
 2. Check under mower deck and discharge chute for debris.
 3. Remove debris and check for proper operation.

UP00731,000006A-19-06AUG15

Transporting Mower on Machine

Raise mower to the highest position possible on the mower cutting height knob for transport.

DN39857,0000318-19-15OCT20

Transporting Machine on Trailer

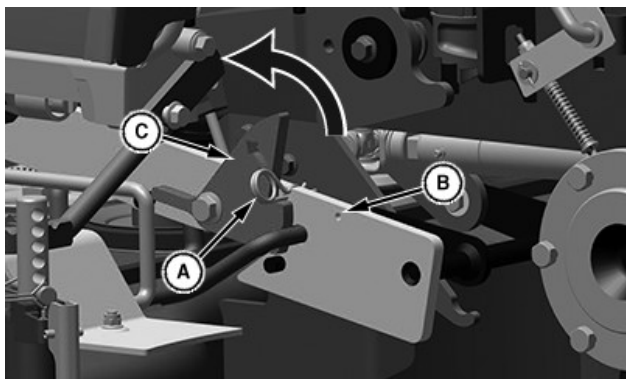
Refer to machine operator's manual for transporting information.

UP00731,0000377-19-30JUL15

Removal and Storage

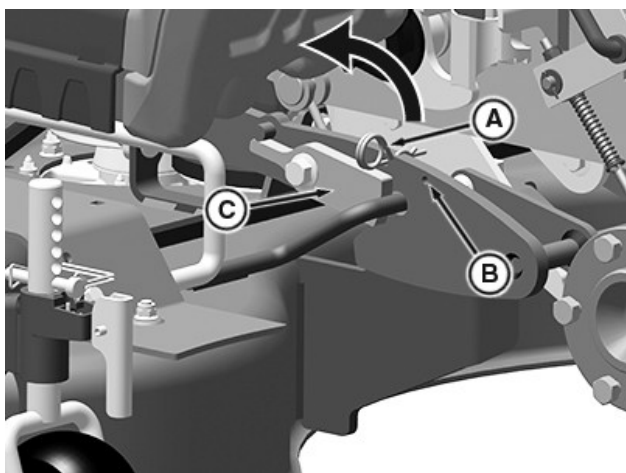
Remove Mower

1. Park machine on a level surface, not on a slope.
2. Lock park brake.
3. Disengage mower blades.
4. Ensure that tractor can be pulled forward to deposit mower deck and that sufficient room exists to back fully off deck before turning tractor wheels.
5. Place tractor in A range four-wheel drive.
6. Fully raise mower deck and release gauge wheel locks.



LV27146—UN—21DEC16

Rear Lock (—MY19)



LVP11515—UN—15OCT20

Rear Lock (MY20—)

A—Lock Pin
B—Storage Hole
C—Rear Lock

7. Remove lock pin (A) and place in the rear storage hole (B).
8. Fully lower mower deck to ground.

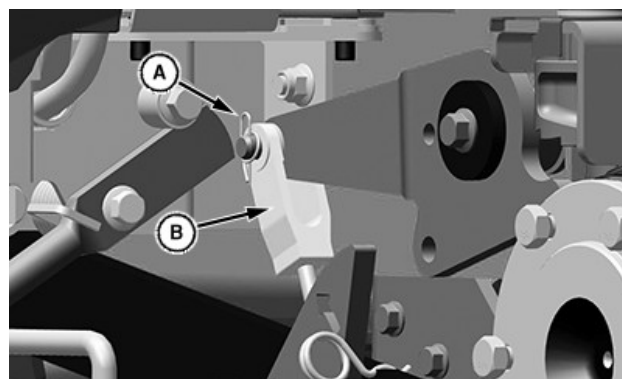
NOTE: To make sure all the pressure is off the rear lock, set the park brake after lowering the deck and slightly press the forward pedal.

9. Release rear lock (C) by pushing it forward in

direction of arrow. If lock sticks, pull mower deck rearward slightly on the side with the stuck lock and push lock forward.

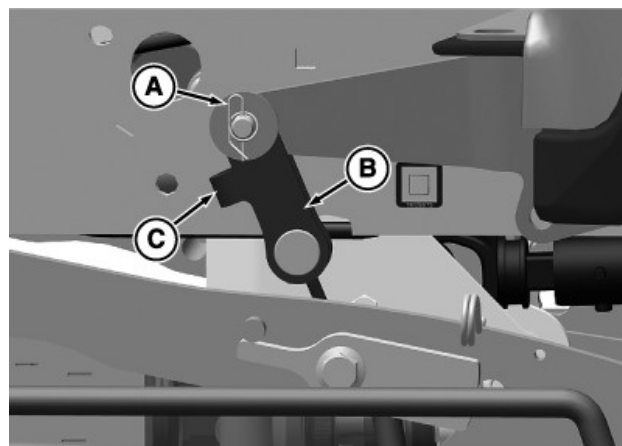
10. Slowly back tractor straight off the mower deck.
11. If mid PTO is used for other applications:
 - a. Lock lift link in transport position.
 - b. Remove quick connect driveshaft from mid PTO by pulling collar.

IMPORTANT: Avoid damage! For MY20—tractors, the protrusion (C) must face towards the front of the tractor to avoid damage to parts.



LV27024—UN—15DEC16

Turnbuckle (—MY19) Shown

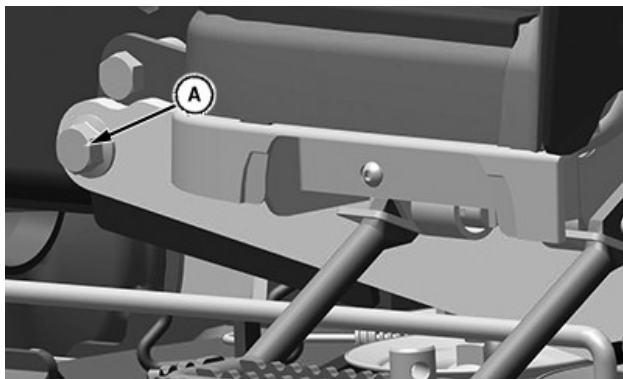


LV30785—UN—10AUG21

Turnbuckle (MY20—) Shown

A—Retaining Pins
B—Turnbuckle
C—Protrusion

- c. Remove the retaining pins (A) from the left and right rear turnbuckles (B). Remove turnbuckles from mid rockshaft.



LV27147—UN—21DEC16

A—Bolt

- d. Remove bolt (A) and bushing that is securing the rear lift link to the bracket on both sides. Remove lift link from tractor.
- e. Keep all hardware attached to the rear lift link and store for later use.

UP00731,0000A10-19-12AUG21

Storing Mower

⚠ CAUTION: Blades are sharp. Do not store mower deck on machine or removed from machine with blades exposed. Store mower deck laying flat on ground.

1. Remove mower from machine. (If machine is to be stored with mower on machine, refer to Storing Machine in your machine's operator's manual.)
2. Clean underside of mower with water pressure and scraper.
3. Inspect blades:
 - Have dull blades sharpened and balanced.
 - Replace damaged blades.
4. Clean top of deck and the area around all of the sheaves.
5. Check condition of belt. If necessary, get a new belt. Do not install new belt until you remove mower from storage.
6. Repair or replace any worn or damaged parts.
7. Apply touch-up paint where needed to prevent rust.
8. Lubricate grease points.
9. Release belt tension.
10. Store mower in a clean, dry place.
11. Put a waterproof cover over mower, if you store the mower outside.

UP00731,0000063-19-26AUG13

Service

Service Intervals

Every 10 Hours

- If operating in dry conditions, clean debris from mower.

Every 25 Hours

- Lubricate spindles
- Lubricate driveshaft
- Inspect mower blades
- Inspect mower belt

Every 100 Hours

- Check gearbox oil level
- Wash mower

Every 500 Hours

- Change gearbox oil

UP00731,000006C-19-26AUG13

Grease

IMPORTANT: Avoid damage! Use recommended John Deere greases to avoid component failure and premature wear. The recommended John Deere greases are effective within an average air temperature range of -29 to 135 degrees C (-20 to 275 degrees F). If operating outside that temperature range, contact your Servicing dealer for a special-use grease.

The following greases are preferred:

- John Deere Multi-Purpose SD Polyurea Grease
- John Deere Multi-Purpose HD Lithium Complex Grease

If not using any of the preferred greases, be sure to use a general all-purpose grease with an NLGI grade No.2 rating.

Wet or high speed conditions may require use of a special-use grease. Contact your Servicing dealer for information.

UP00731,000006E-19-26AUG13

Gear Oil

Use oil viscosity based on the expected air temperature range during the period between oil changes.

John Deere GL-5 Gear Lubricant is recommended.

Other oils may be used if they meet one or more of the following:

- API Service Classification GL-5.
- Military Specification MIL-L-2105D.
- Military Specification MIL-L-2105C.
- Military Specification MIL-L-2105B.

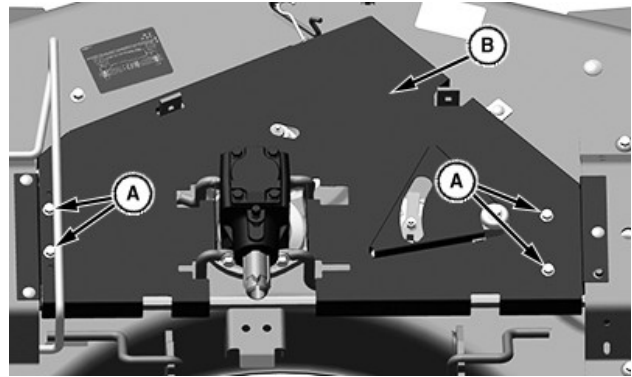
Oils meeting Military Specification MIL-L-10324A may be used as arctic oils.

UP00731,000006F-19-26AUG13

Remove Belt Shield

Remove Belt Shield (—MY19)

1. Remove mower from the machine.



LV27160—UN—04JAN17

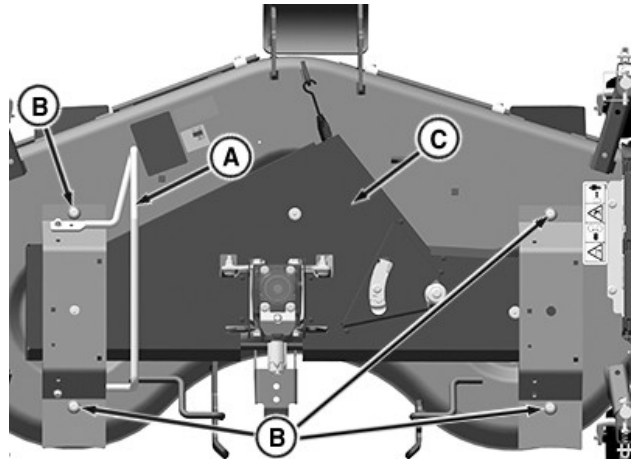
60 mower deck shown, 54 mower deck is similar.

A—Hex Head Bolt
B—Belt Shield

2. Remove hex head bolts (A) and remove belt shield (B).

Remove Belt Shield (MY20—)

1. Remove mower from the machine.



LVP11528—UN—15OCT20

54 mower deck shown, 60 mower deck is similar.

A—Tire Guide
B—Bolt

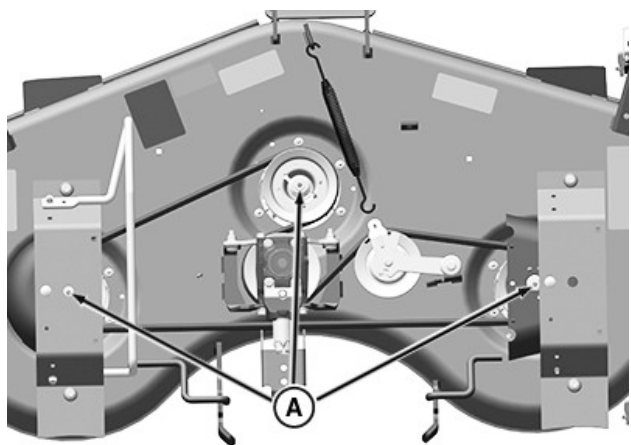
C—Belt Shield

2. Remove tire guide (A).
3. Remove Bolts (B) and belt shield (C).

UP00731,0000124-19-15OCT20

Lubricating Mower

1. Remove belt shield from mower.

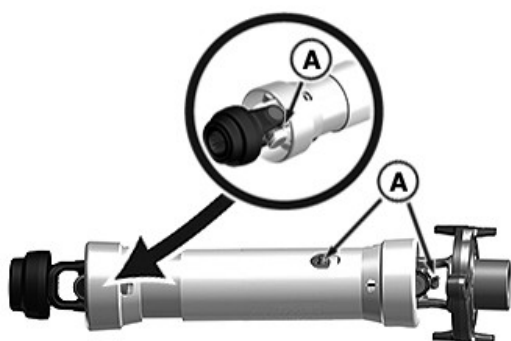


54D Mower Shown

LVP11526—UN—15OCT20

A—Grease Fittings on Sheaves

2. Lubricate three grease fittings (A) on sheaves with the recommended grease.



LV27215—UN—09JAN17

A—Grease Fittings on Mid PTO

3. Lubricate three grease fittings (A) on mid PTO with the recommended lubricant.
4. Install belt shield on mower.

UP00731,0000125-19-15OCT20

Servicing Gearbox

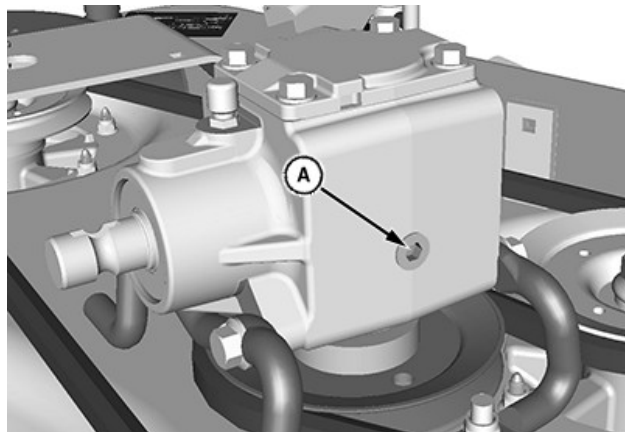
Checking Oil Level

1. Remove plug from one side of gearbox.

2. Oil level should be even with bottom edge of plug hole.
3. If oil is low, add recommended oil.
4. Install plug.

Changing Oil

1. Remove gearbox bracket with gearbox. Refer to assembly section for additional information.



LV24016—UN—04AUG15

A—Plug

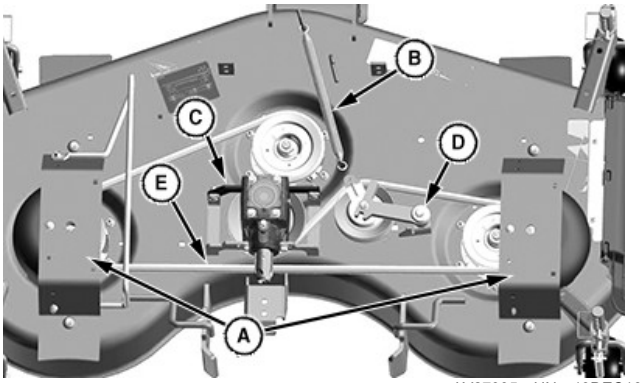
2. Remove plug (A) on both sides of gearbox.
3. Lift and turn gearbox on side to drain oil from gearbox.
4. Route belt around gearbox sheave and lower gearbox onto deck. Secure gearbox bracket to deck. Refer to assembly section for additional information.
5. Add recommended oil to bottom edge of plug hole in gearbox.
6. Install plugs.

UP00731,0000379-19-30JUL15

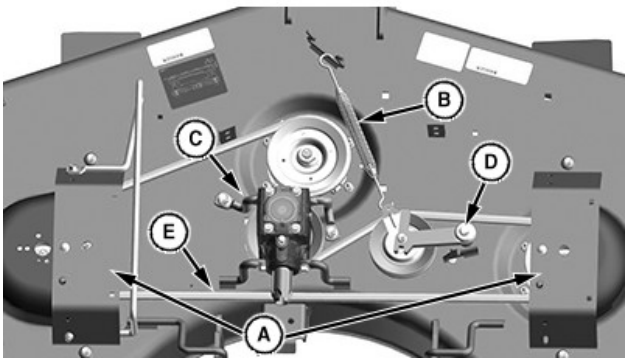
Servicing Mower Belt

Removing Belt

1. Remove mower from the machine.
2. Clean area around and under ramps.
3. Remove belt shield from mower.



54D Mower (—MY19) Shown, MY20— is Similar
LV27035—UN—13DEC16



60D Mower (—MY19) Shown, MY20— is Similar
LV27034—UN—13DEC16

- A—Ramps
- B—Spring
- C—Gearbox Support
- D—Washer
- E—Belt

4. Remove both drive-over ramps (A) with shields.
5. Remove spring (B) to relieve belt tension.
6. Remove the rear gearbox support (C).
7. Remove the dust cap, snap ring, and flat washer (D) retaining the tensioner pulley assembly and remove the pulley assembly.
8. Remove belt (E) from mower.

Installing Belt

1. Install belt around sheaves and route as shown.
2. Install tensioner pulley assembly and secure using a flat washer, snap ring, and dust cap (D).
3. Install the rear gearbox support (C) with original hardware.
4. Install tensioner spring (B).
5. Install the left and right drive-over ramps (A) with shields.
6. Install belt shield on mower.

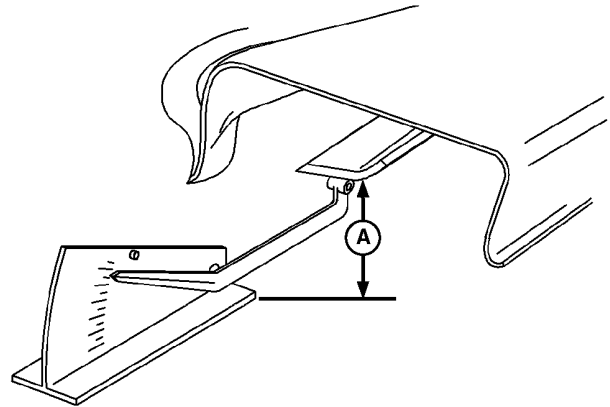
UP00731,0000126-19-15OCT20

Check for Bent Mower 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. Park machine on a level surface, not on a slope.
2. Disengage mower blades.
3. Fully raise the mower.
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. Block the mower.



LV18692—UN—20AUG13

A—Distance - Blade to Level Surface

9. Measure the distance (A) from blade tip to level surface with a ruler or a leveling gauge available at your John Deere dealer.
10. Rotate blade 180° and measure the distance between other end of blade and surface.
11. Check all blades. Install new blade if difference between measurements is more than 3 mm (1/8 in.).

UP00731,000011A-19-13DEC16

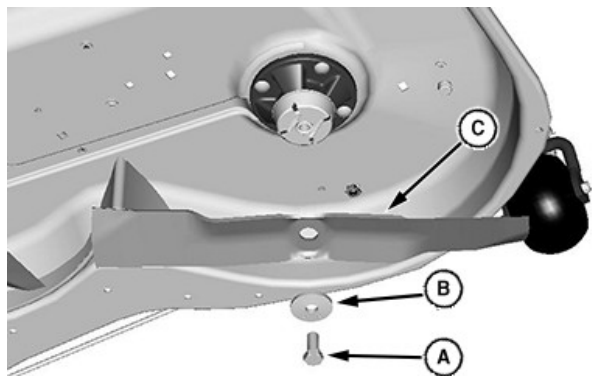
Remove and Install Mower Blades

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.

Removing Mower Blades

1. Park machine safely.
2. Remove the mower from machine.
3. Use a suitable lifting device to raise the mower to gain access to blades.
4. Insert wood block between blade and mower to prevent the blade from turning when removing bolt.

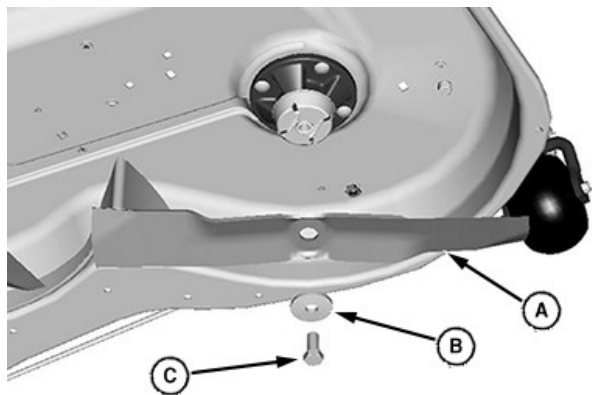


LV24019—UN—04AUG15

A—Bolt
B—Washer
C—Blade

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

Installing Mower Blades



LV24021—UN—05AUG15

54D Deck Shown

A—Blade
B—Washer
C—Bolt

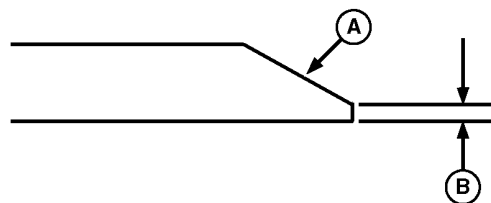
1. Install the blade (A) with cutting edge toward the ground, washer (B), and bolt (C).
2. Insert wood block between blade and mower to prevent the blade from turning when tightening bolt.
3. Tighten the bolt to 68 N•m (50 lb•ft).

PR59899,000100E-19-01JUL21

Sharpen Blades

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

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



LV18695—UN—20AUG13

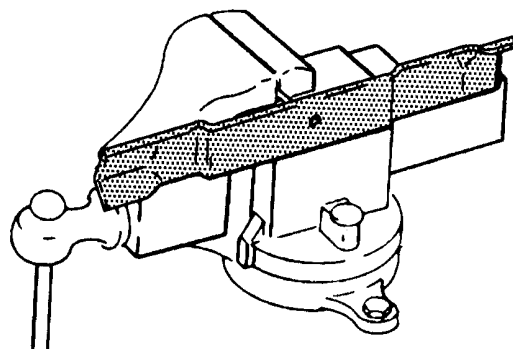
A—Bevel
B—Cutting Edge

1. Sharpen blade with grinder, hand file or electric blade sharpener.
 - Keep original bevel (A) when grinding..
 - Blade should have 0.40 mm (1/64 in.) cutting edge (B) or less.
2. Balance blade before installing.

UP00731,0000118-19-13DEC16

Balance Blades

1. Clean the blade.



LV18696—UN—20AUG13

2. Put blade on a nail in a vice or in a vertical wall stud. Turn blade to horizontal position. If blade is not balanced, heavy end of blade will drop.
3. Grind bevel of heavy end. Do not change blade bevel.

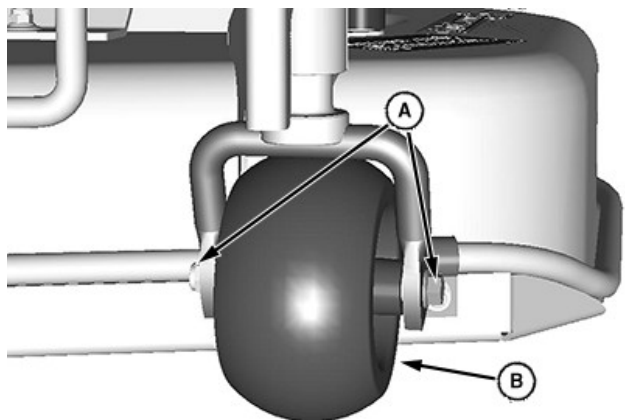
UP00731,0000119-19-13DEC16

Replacing Wheels

1. Park machine on a level surface, not on a slope.
2. Disengage mower blades.
3. Fully raise mower.
4. Lock park brake.
5. Stop engine.
6. Remove key.
7. Wait for engine and all moving parts to stop before leaving operator seat.

2. Remove spring (A) to relieve belt tension.
3. If necessary, remove drive over the ramp (B).
4. Remove six bolts (C) on sheave to be replaced.
5. Replace sheave and secure with original hardware.
6. Replace ramps, if removed.

UP00731,0000127-19-15OCT20



LV24023—UN—04AUG15

A—Wheel Hardware
B—Wheel

8. Remove wheel hardware (A).

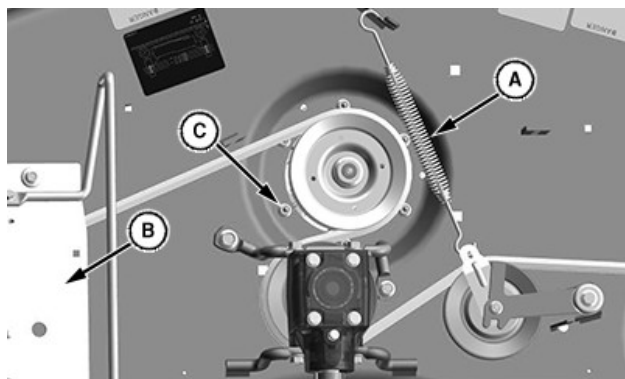
IMPORTANT: Avoid damage! Do not overtighten wheel hardware. Overtightening hardware will cause damage to bushing.

9. Install new wheel (B) with hardware.

UP00731,000037C-19-06AUG15

Replace Sheaves

1. Remove belt shield from mower.



LV27036—UN—13DEC16

A—Spring
B—Ramp
C—Bolt

Troubleshooting

Use Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your John Deere distributor for service.

and you are still experiencing the problem, see your John Deere distributor.

KN52281,1003F58-19-22AUG12

When you have checked all the possible causes listed

Mower Deck Troubleshooting

IF	Check
Discharge chute plugged	• Belt(s) installed incorrectly. • Grass too wet. • Grass too long. • Engine should be at full throttle. • Rear of deck too low.
Patches of grass uncut	• Travel speed too fast. • Engine should be at full throttle. • Dull blades. • Cutting height set too high.
Belt slipping	Debris around sheaves. Worn belt. Mower plugged.
Too much vibration	Debris on mower deck or around sheaves. Damaged drive belt. Damaged sheaves or sheaves out of alignment. Blades out of balance.
Uneven cut	Check procedures on Adjusting Mower Level Side-to-Side and Front-to-Rear. Travel speed too fast. Blades are dull. Check tire pressure. Adjust mower wheels.
Mower stops when reverse foot pedal is depressed and attachment is engaged	Normal condition. See the reverse implement option information in your machine operator manuals.
Blades scalping grass	Turning speed too fast. Ridges in terrain. Rough or uneven terrain. Low tire pressure. Cutting too low. Bent blade(s). Adjust mower wheels.
Mower loads down tractor	Turning speed too fast. Ridges in terrain. Rough or uneven terrain. Low tire pressure. Cutting too low. Bent blade(s). Adjust mower wheels.
Uneven clipping distribution	Cutting height set too low. Mowing too fast. Grass too wet.

UP00731,0000381-19-06AUG15

Connecting Mower Deck Troubleshooting

IF	Check
Rear draft arms are not fully lowered	Height of cut control should be in the install position, use SCV or rockshaft control lever to raise and lower deck. Mower lift link is not contacting any step on height stop cam. Refer to adjusting maximum height-of-cut for additional information.
Rear latch is not functioning properly	Rear lock assembly should be in locked position prior to driving over mower. Rear lock assembly only stops in the lock and unlock position. NOTE: If lock assembly stops or binds in-between positions, lubrication at pivot point may be required. Rear lock assembly and surrounding components are not deformed or bent. Rear lift arm rods are completely lowered on both sides of mower. This function is controlled by the SCV or rockshaft control lever. Refer to installing mower deck for additional information.
If mower and ground conditions are not consistent	Ensure mower is parked on level hard surface. If parking on level hard surface is not possible, place a board under front of mower. Gage wheels in unlock position. Mower is centered on the tractor. Driveshaft connection is aligned properly (for AutoConnect driveshaft only). Driveshaft is properly installed in hanger (for standard driveshaft only). If equipped with front weights, remove before installation. Replace weights when complete. Refer to installing mower deck for additional information.
Improper front draft arm engagement	At least a 2-3mm (.08-.10 in) gap at front draft link and frame hook. Adjustment to draft link nuts may be required. If locks are not releasing or locking easily, gap at front draft link and frame hook may need to be increased. Front draft link yoke is properly oriented. Front draft link is at proper height and not dragging on bottom of frame hook. Refer to installing mower deck for additional information.

UP00731,0000387-19-06AUG15

Specifications

Mower Deck Specifications

54D Mower Deck

Mower Type	Mulch or Side Discharge
Cutting Blades	3
Overall Width	1.74 m (68.5 in)
Overall Length	1.75 m (69 in)
Cutting Height ^a	2.5 - 10.2 cm (1 - 4 in)
Cutting Width	1.37 m (54 in)
Mower Weight	112 kg (247 lb)
Blade Bolt Torque	.68 N·m (50 lb·ft)
Gearbox Oil Capacity	136 mL (4.6 oz)

^a varies depending on the tire size.

60D Mower Deck

Mower Type	Mulch or Side Discharge
Cutting Blades	3
Overall Width	1.85 m (72.8 in)
Overall Length	1.82 m (71.6 in)
Cutting Height ^a	2.5 - 10.2 cm (1 - 4 in)
Cutting Width	1.52 m (60 in)
Mower Weight	120 kg (265 lb)
Blade Bolt Torque	.68 N·m (50 lb·ft)
Gearbox Oil Capacity	136 mL (4.6 oz)

^a varies depending on the tire size.

PR59899,000100F-19-22MAY25

Get Quality Service

Service Literature

If you would like a copy of the Parts Catalog or Technical Manual for this machine call:

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

AP43109,00002CF-19-15APR13

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.

AP43109,00002D0-19-15APR13

Your John Deere dealer is dedicated to supporting your equipment and resolving any problem you may experience.

1. When contacting your dealer, be prepared with the following information:

–Machine model and product identification number

–Date of purchase

–Nature of problem

2. Discuss problem with dealer service manager.

3. If unable to resolve, explain problem to dealership manager and request assistance.

4. If you have a persistent problem your dealership is unable to resolve, ask your dealer to contact John Deere for assistance. Or contact the Ag Customer Assistance Center at 1-866-99DEERE (866-993-3373) or e-mail us at www.deere.com/en_US/ag/contactus/.

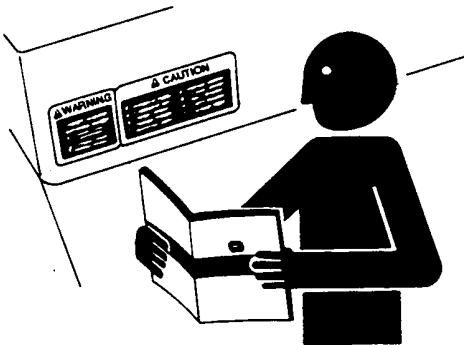
DX,IBC,2-19-02APR02

Order Service Parts Online

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

AP43109,00002D1-19-15APR13

John Deere Is At Your Service



TS201—UN—15APR13

CUSTOMER SATISFACTION is important to John Deere.

Our dealers strive to provide you with prompt, efficient parts and service:

–Maintenance and service parts to support your equipment.

–Trained service technicians and the necessary diagnostic and repair tools to service your equipment.

CUSTOMER SATISFACTION PROBLEM
RESOLUTION PROCESS

Declaration of Conformity

EU Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that

Machine Type: Mower Deck

Model: 54D and 60D

Serial Numbers: See Product Identification Page

fulfills all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Machinery Directive	2006/42/EC	Self-Certification

Name and address of the person in the European Community authorized to compile the technical construction file:

John Deere Walldorf GmbH & Co. KG
Customer Support
Impexstraße 3
D-69190 Walldorf
EUConformity@JohnDeere.com

Place of Declaration:

Augusta, Georgia U.S.A.

Date of Declaration:

21 June 2016

Manufacturing Unit:

John Deere Horicon Works



DXCE01—UN—28APR09

A handwritten signature in black ink that reads "Scott Farlow".

LVP11378—UN—16APR21

Name: Scott Farlow

Title: Manager, Compact Utility Tractor Engineering

AL61114,0000714-19-22MAY25

UK Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that

Machine Type: Mower Deck

Model: 54D and 60D

Serial Numbers: See Product Identification Page

fulfills all relevant provisions and essential requirements of the following UK regulations:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
The Supply of Machinery (Safety) Regulations 2008	S.I. 2008/1597	Self-Certification

Name and address of the person authorized to compile the technical construction file:

John Deere Ltd
Harby Road
Langar
Nottinghamshire
NG13 9HT
United Kingdom
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Augusta, Georgia U.S.A.

Date of Declaration: 21 June 2016

Manufacturing Unit: John Deere Horicon Works

Ag & Turf Products Importer: John Deere Ltd- Harby Road, Langar, Nottinghamshire, NG13 9HT, United Kingdom

Forestry Products Importer: John Deere Forestry Ltd- Carlisle Airport Industrial Estate, Carlisle, Cumbria, CA6 4NW, United Kingdom



TC101783—UN—21FEB21

A handwritten signature in black ink that reads 'Scott Farlow'.

LVP11378—UN—16APR21

Name: Scott Farlow

Title: Manager, Compact Utility Tractor Engineering

AL61114,0000715-19-22MAY25

Index

B			
Belt Shield, Remove.....	40-1	Mower Deck	
		Troubleshooting.....	45-1, 45-2
C		Mower Level	
Compatibility		Adjusting - Front to Rear	25-2
Product	00-1	Adjusting - Side to Side.....	25-1
D		Mower on Machine	
Deck Height		Transporting	30-2
Adjusting.....	25-4	Mower Wheels	
Discharge Chute		Adjusting	25-6
Installation	15-1	Install.....	15-1
		Replacing	40-5
E		P	
Equipment, Required	15-1	Preparing Machine	25-1
G		S	
Gear Oil.....	40-1	Safety	
Gearbox		Protect against noise.....	05-6
Servicing.....	40-2	Safety, Avoid High-Pressure Fluids	
Grease	40-1	Avoid High-Pressure Fluids	05-3
H		Setting of Cut, Adjusting	30-1
Hydraulic Hose for Mower Lift, Connect	20-3	Sheaves	
		Replace	40-5
I		Signal words, understand.....	05-1
Identification Numbers	00-1	Specifications	50-1
Intervals		T	
Service.....	40-1	Troubleshooting Chart, Use	45-1
L			
Labels			
Safety	10-1		
M			
Machine			
Transporting	30-2		
Mower			
Engaging	30-2		
Installation	20-1		
Lubricating.....	40-2		
Raise and Lower	30-1		
Remove.....	35-1		
Storing	35-2		
Unplugging	30-2		
Mower Belt			
Servicing.....	40-2		
Mower Blades			
Remove and Install.....	40-3		
Mower Blades, Balance.....	40-4		
Mower Blades, Check for Bent	40-3		
Mower Blades, Sharpen	40-4		

