

AutoConnect™ Mid-Mount Mower 60D and 72D



OPERATOR'S MANUAL AutoConnect Mid-Mount Mower 60D and 72D OMLVU30965 ISSUE J9 (ENGLISH)

CALIFORNIA Proposition 65 Warning

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

If this product contains a gasoline engine:

WARNING

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

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Augusta Works

Export Version
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 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 (P.I.N.) in the Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order 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 from your dealer.

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.

THE TIRE MANUFACTURER'S warranty supplied with your machine may not apply outside the U.S.

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.

DX,IFC1 -19-03APR09-1/1

Contents

	Page		Page
Product Identification		Service	
Product Compatibility.....	00-1	Service Intervals.....	40-1
Record Identification Numbers	00-1	Grease.....	40-1
Safety		Gear Oil	40-1
Read Safety in Machine Operator's Manual.....	05-1	Lubricating Mower	40-2
Understand Signal Words.....	05-1	Servicing Gearbox.....	40-3
Recognize Safety Information	05-1	Servicing Mower Belt.....	40-3
Operator Training Required.....	05-1	Servicing Mower Blades	40-4
Preparation.....	05-2	Replacing Wheels.....	40-6
Operating Safely.....	05-2	Replacing Sheaves.....	40-7
Park Machine Safely.....	05-3		
Avoid High-Pressure Fluids	05-3	Troubleshooting	
Checking Mowing Area.....	05-3	Use Troubleshooting Chart.....	50-1
Rotating Blades are Dangerous	05-4	Troubleshooting	50-1
Protect Children.....	05-4		
Stay Clear of Rotating Drivelines.....	05-4	Specifications	
Stay Clear of Rotating Drivelines	05-5	60 Inch 7-Iron Mower Deck	60-1
Avoid Tipping	05-5	72 Inch 7-Iron Mower Deck	60-1
Wear Protective Clothing	05-5		
Maintenance and Storage	05-6	Getting Quality Service	
		Service Literature	65-1
Safety Labels		Parts	65-1
Replace Safety Signs	10-1	Order Service Parts Online.....	65-1
Safety Labels.....	10-1	John Deere Quality Continues with	
		Quality Service	65-1
Installing			
Preparing Machine	25-1		
Prepare Tractor and PTO Coupler.....	25-1		
Attach Mower Deck to Tractor	25-2		
Removing and Storing			
Removing Mower.....	30-1		
Storing Mower	30-2		
Operating			
Raising and Lowering Mower	35-1		
Adjusting Mower Level (Side-to-Side)	35-2		
Adjusting Mower Level (Front-to-Rear)	35-3		
Adjusting Mower Wheels.....	35-3		
Adjusting Height of Cut (2032R, 2036R, 2038R).....	35-4		
Adjusting Height of Cut and Using Height Adjust Link (3033R, 3038R, 3039R, 3045R, 3046R)	35-4		
Engaging Mower.....	35-5		
Unplugging Mower.....	35-5		
Transporting Mower on Machine	35-5		

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 © 2019
DEERE & COMPANY
Moline, Illinois
All rights reserved.
A John Deere ILLUSTRATION™ Manual
Previous Editions
Copyright © 2016, 2017

Product Identification

Product Compatibility

The 60D and 72D AutoConnect mowers are designed for use with compact utility tractor models: 2032R, 2036R, 2038R, 3120, 3320, 3520, 3720, 3033R, 3038R, 3039R, 3045R and 3046R.

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

- Mid-PTO Kit
- Mower Lift Kit

UP00731,0000175 -19-10MAY16-1/1

Record Identification Numbers

AutoConnect Mower

60D Serial No. (1LV_____010001-)

72D Serial No. (1LV_____010001-)

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

You will need to locate the 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:

UP00731,0000176 -19-26MAY16-1/1

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 -19-04SEP13-1/1

Understand Signal Words

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.

 **DANGER**

 **WARNING**

 **CAUTION**

TS187 —19—30SEP88

DX,SIGNAL -19-05OCT16-1/1

Recognize Safety Information

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.



T81389 —UN—28JUN13

DX,ALERT -19-29SEP98-1/1

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.

UP00731,0000096 -19-04SEP13-1/1

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.
- 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.

UP00731,0000097 -19-04SEP13-1/1

Operating Safely

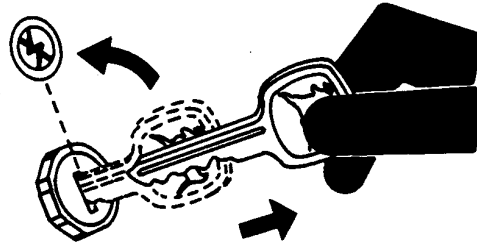
- Never run an engine in an enclosed area where dangerous carbon monoxide fumes can collect. •Only operate in good light, keeping away from holes and hidden hazards.
- Be sure all drives are in neutral and parking brake is engaged before starting engine. Only start engine from the operator's position. 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.

UP00731,0000098 -19-04SEP13-1/1

Park Machine Safely

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.



TS230 —UN—24MAY89

DX,PARK -19-04JUN90-1/1

Avoid High-Pressure Fluids

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.

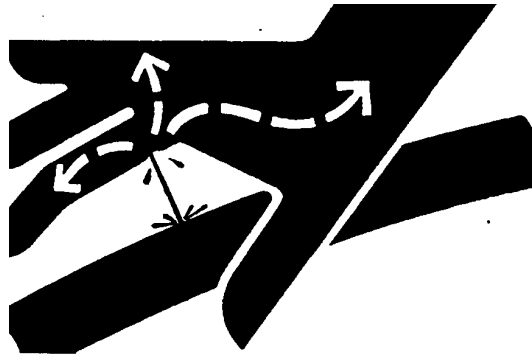
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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



X9811 —UN—23AUG88

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 -19-12OCT11-1/1

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 -19-15APR13-1/1

Rotating Blades are Dangerous

TCAL43410 —UN—15MAR13

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

- 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.



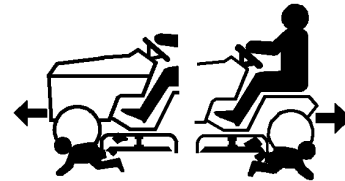
- Do not mow in reverse.
- Shut off blades when you are not mowing.
- Park machine safely before leaving the operator's station for any reason including emptying the grasscatchers or unplugging the chute.

UP00731,000009E -19-04SEP13-1/1

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 -19-21FEB13-1/1

Stay Clear of Rotating Drivelines

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.



TS1644 —UN—22AUG95

DX,ROTATING -19-18AUG09-1/1

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

- Wear close fitting clothing.
- Stop the engine and be sure PTO driveline is stopped before getting near it.

UP00731,000009A -19-04SEP13-1/1

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.

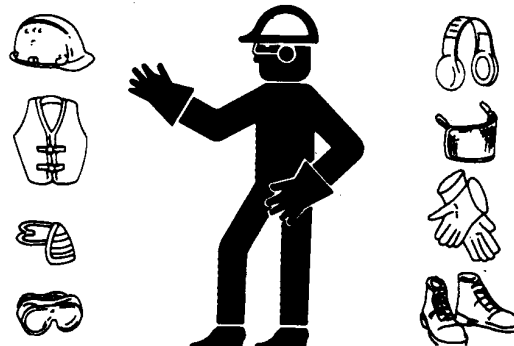
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Do not operate machine near drop-offs, ditches, embankments, or bodies of water. The machine could suddenly roll over if a wheel goes over the edge or the edge 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 -19-04SEP13-1/1

Wear Protective Clothing

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.



TS206 —UN—15APR13

DX,WEAR2 -19-03MAR93-1/1

Maintenance and Storage

- Never operate machine in a closed area where dangerous carbon monoxide fumes can collect.
- 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.

UP00731,000009C -19-04SEP13-1/1

Safety Labels

Replace Safety Signs

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.



TS201—UN—15APR13

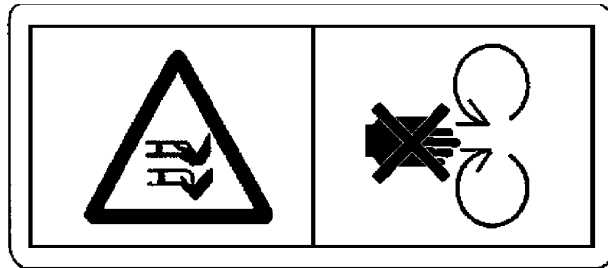
DX,SIGNS -19-18AUG09-1/1

Safety Labels

DANGER

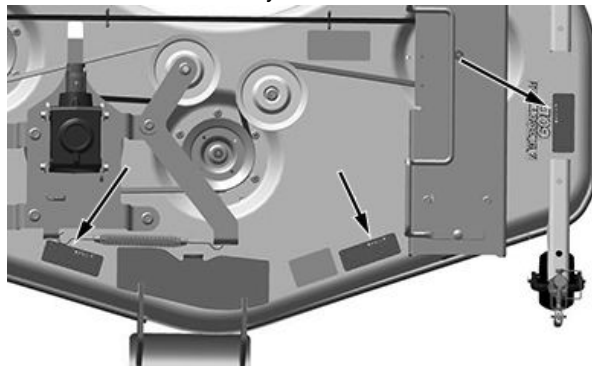
ROTATING BLADE

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



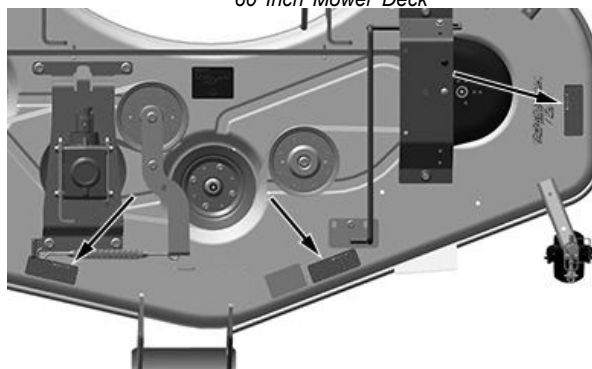
MXTO08108—UN—21SEP13

Safety Label - M118041



LV25006—UN—26APR16

60 Inch Mower Deck



LV25007—UN—26APR16

72 Inch Mower Deck

Continued on next page

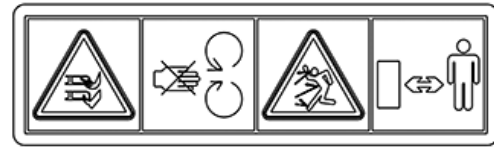
UP00731,00001BA -19-03JUN16-1/4

DANGER

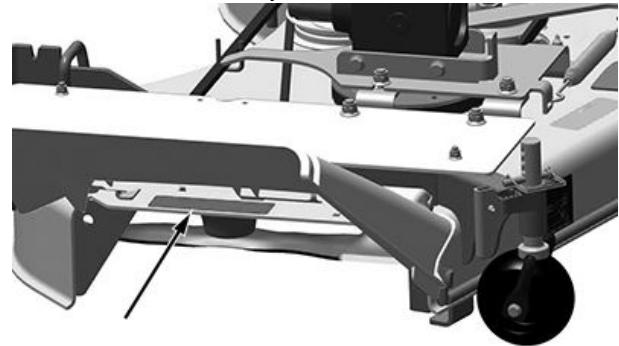
To avoid injury from rotating blades and thrown objects:

Keep hands and feet away from rotating blades.

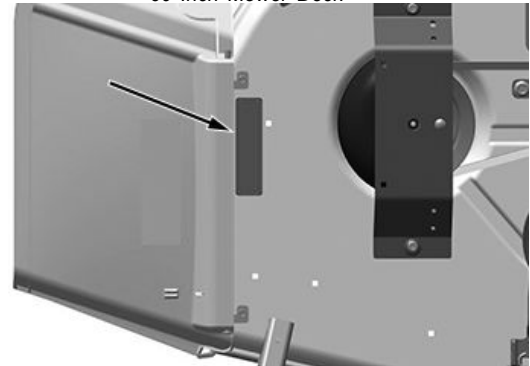
Keep bystanders a safe distance away. Do not operate mower without discharge chute or entire grass catcher in place.



Safety Label - M138631



60 Inch Mower Deck



72 Inch Mower Deck

Continued on next page

UP00731,00001BA -19-03JUN16-2/4

LV25389 —UN—17MAY16

LV25008 —UN—26APR16

LV25009 —UN—26APR16

DANGER

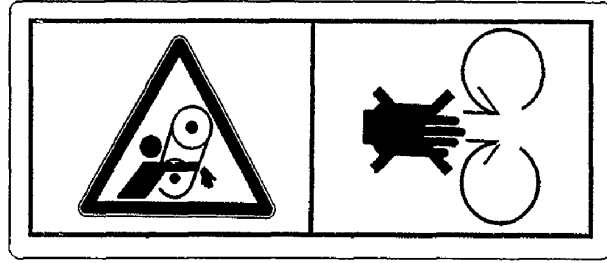
ROTATING BLADE

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

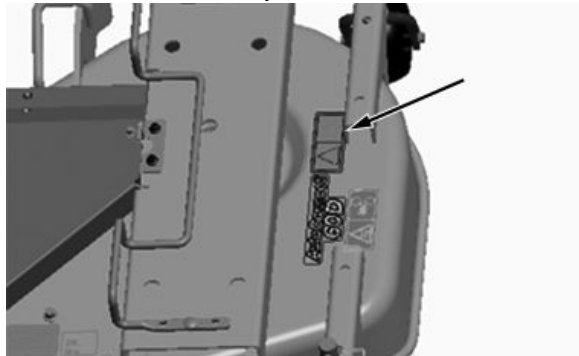
THROWN OBJECTS

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

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



Safety Label - M136436



60 Inch Mower Deck



72 Inch Mower Deck

Continued on next page

UP00731,00001BA -19-03JUN16-3/4

MXT009107 —UN—21SEP13

LV25410 —UN—17MAY16

LV25392 —UN—17MAY16

DANGER

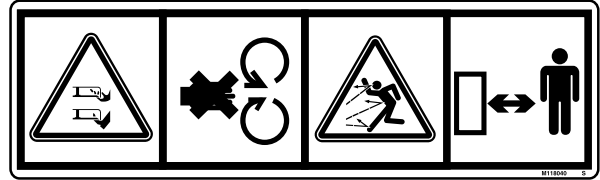
ROTATING BLADE

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

THROWN OBJECTS

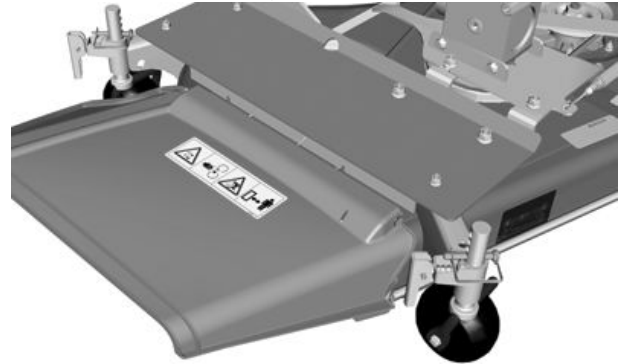
Before mowing, clear area of objects that may be thrown by blade.

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



LV18938 —UN—28AUG13

Safety Label - M118040



LV18925 —UN—28AUG13

60 Inch Mower Deck



LV18926 —UN—28AUG13

72 Inch Mower Deck

UP00731,00001BA -19-03JUN16-4/4

Installing

Preparing Machine

Required Equipment:

- Tractor Mid-PTO
- Mower Lift Kit

Machine Setup:

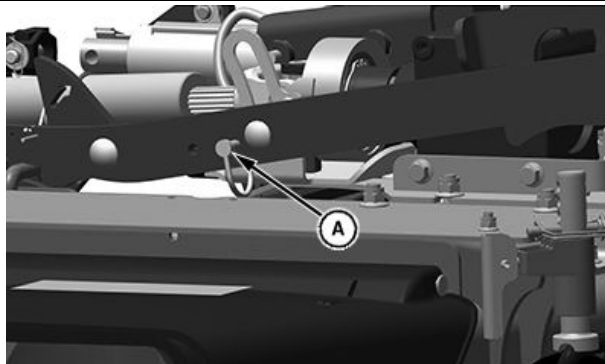
1. Park machine safely. (See Parking Safely in SAFETY.)
2. Follow machine operator's manual instructions to check tire pressure.
3. Follow instructions in ASSEMBLY in this manual.

UP00731,000005F -19-26AUG13-1/1

Prepare Tractor and PTO Coupler

1. Raise lift system fully.
2. Remove pin from height lock.
3. Lower lift system fully.
4. Remove lock pin (A) from coupler support and make sure support drops completely.
5. Place lock pin (A) in forward storage hole in lift link.

A—Lock Pin

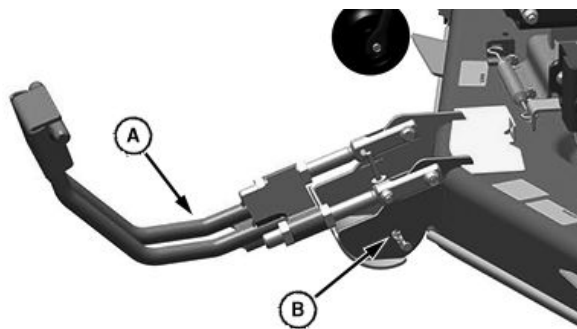


LV25042—UN—28APR16

UP00731,000012C -19-11MAY16-1/3

6. Unfold front link (A) from top of mower. Insert end of rod into top part of slot (B) in bracket.

A—Front Link

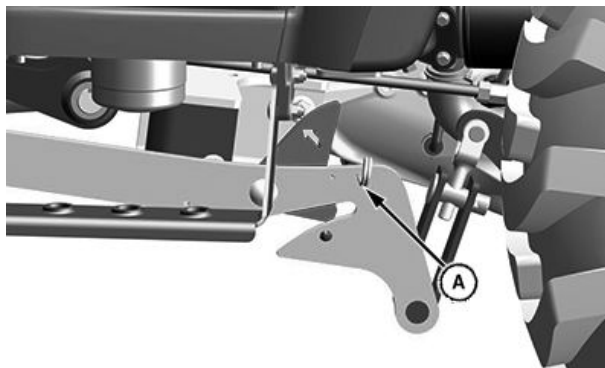


LV25026—UN—11MAY16

UP00731,000012C -19-11MAY16-2/3

7. Cotter pins (A) should be in the storage position and locks should be in the install/locked position.

A—Cotter Pin



LV25116—UN—10MAY16

UP00731,000012C -19-11MAY16-3/3

Attach Mower Deck to Tractor

1. Ensure that deck is sitting on firm, level ground. A smooth surface allows deck to be pushed along by tractor.

NOTE: Remove the tire guide (D) when installing a deck on the 3033R, 3038R, 3039R, 3045R and 3046R cab tractors.

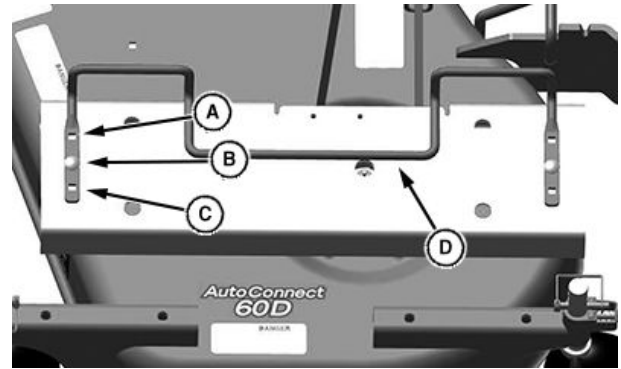
2. Adjust tire guide according to the type of tire on the tractor.

2032R, 2036R, 2038R	
Position	Tire Type
A	R3 Radial Tire
B	R3 and R4 Tire
C	R1 Tire

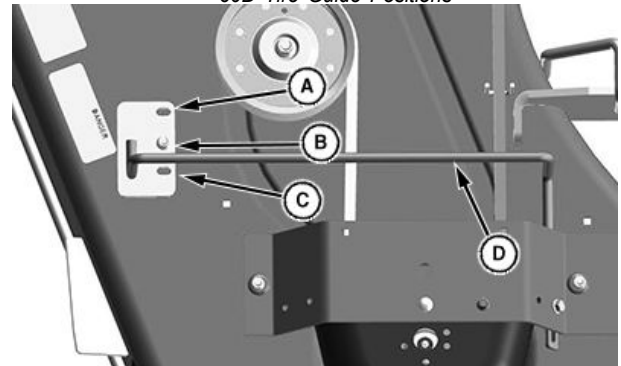
3033R OS, 3038R OS, 3039R OS, 3045R OS, 3046R OS, 3120, 3320, 3520, 3720	
Position	Tire Type
A	None
B	R4 Tire (27-15)
C	R4 Tire (25-14)

A—Position A
B—Position B

C—Position C
D—Tire Guide



60D Tire Guide Positions



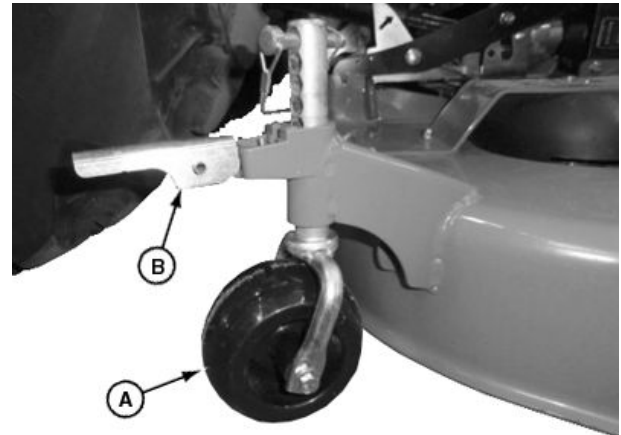
72D Tire Guide Positions

UP00731,00002A0 -19-04OCT19-1/6

3. Ensure that all four gauge wheels (A) are in unlocked position, with handles (B) parallel to ground. Deck should be resting fully on ground.
4. Place tractor in A range four-wheel drive.

A—Gage Wheels

B—Handles



Continued on next page

UP00731,00002A0 -19-04OCT19-2/6

5. Drive tractor onto the mower deck with the inside of left wheel against the tire guide (A).
6. If mower deck pulls forward early or appears to be caught in the lift system, stop tractor, reverse slightly, and move forward again. If mower deck still does not properly attach, stop tractor, lock park brake, dismount tractor and determine cause of problem.

A—Tire Guide



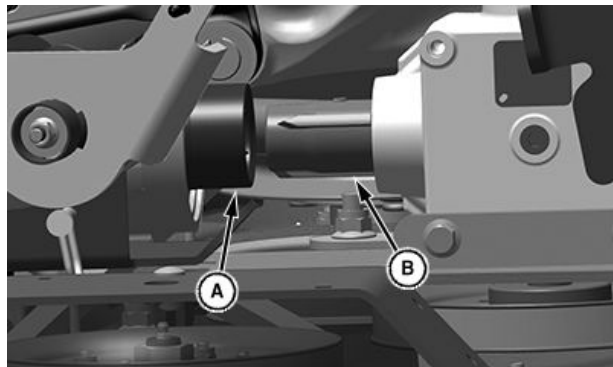
LV25041 —UN—27APR16

UP00731,00002A0 -19-04OCT19-3/6

7. PTO coupler (A) aligns with the gear box coupler (B).
8. Continue to drive the tractor forward slowly until the mower begins to pull along ground approximately 102 mm (4 inches) behind front wheels.

A—PTO Coupler

B—Gear Box Coupler

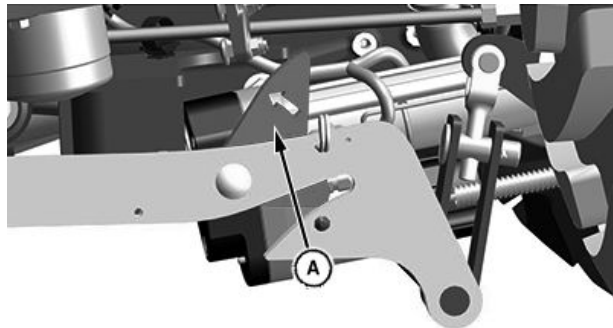


LV25004 —UN—26APR16

UP00731,00002A0 -19-04OCT19-4/6

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

A—Lock



LV25032 —UN—11MAY16

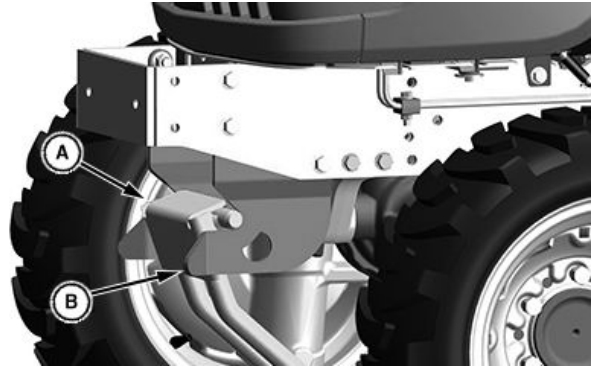
Continued on next page

UP00731,00002A0 -19-04OCT19-5/6

11. Make sure the forward lift link (A) is nested into hangers (B).
12. Start engine and lift mower to full height.
13. Pull height lock fully forward and place pin in the nearest hole for transport or set link to desired height.
14. Lock down all gauge wheels by snapping down handles and ensuring that lock pins are fully seated in vertical rods.

A—Forward Lift Link

B—Hangers



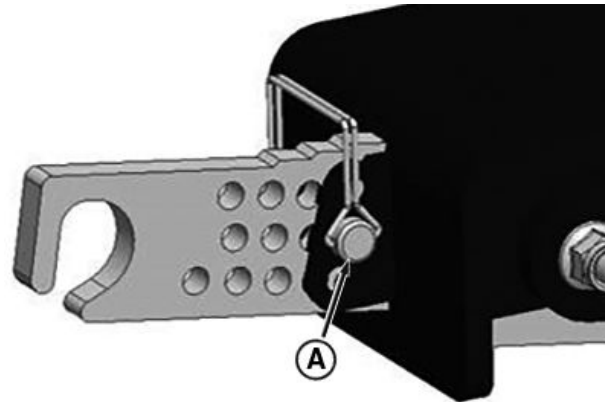
LV25005 —UN—26APR16

UP00731,00002A0 -19-04OCT19-6/6

Removing and Storing

Removing 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 gage wheel locks.
7. Remove height lock pin (A) (3033R, 3038R, 3039R, 3045R, 3046R, 3120, 3320, 3520, 3720).



LVP10100—UN—09OCT19

A—Height Lock Pin

UP00731,000012E -19-11OCT19-1/5

8. Remove hair pins (A) and place in rear storage holes.
9. Fully lower mower deck to ground and release rear locks by pushing them 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 mower deck.
11. When removing the mower for storage, raise forward lift link, pull wireform gently to side and fold forward lift link back over the deck.
12. Raise lift system fully and lock in highest position by pulling forward on height lock link and placing tethered pin in closest available hole.

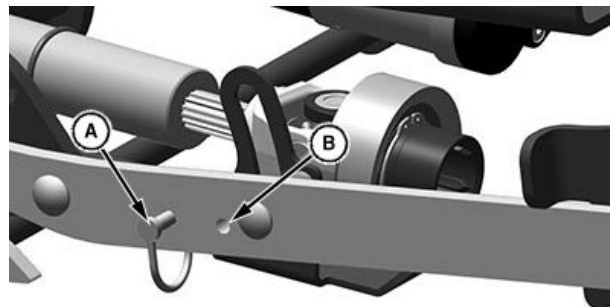


LVP10101—UN—09OCT19

A—Hair Pin (2 used)

UP00731,000012E -19-11OCT19-2/5

13. Lock coupler support up by lifting and installing the snap lock pin (A) in hole (B).
14. 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.



LV25039—UN—27APR16

A—Lock Pin

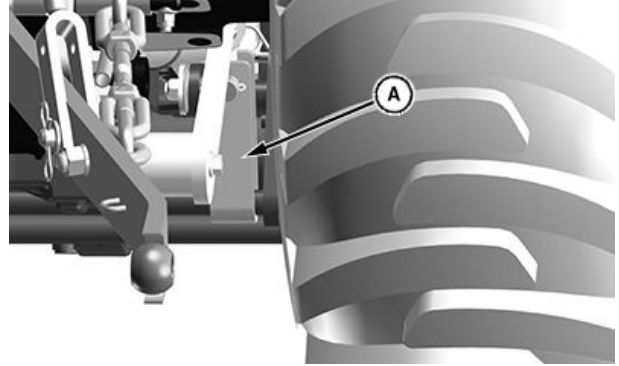
B—Hole

Continued on next page

UP00731,000012E -19-11OCT19-3/5

c. Remove yokes (A) from mid rockshaft.

A—Yokes



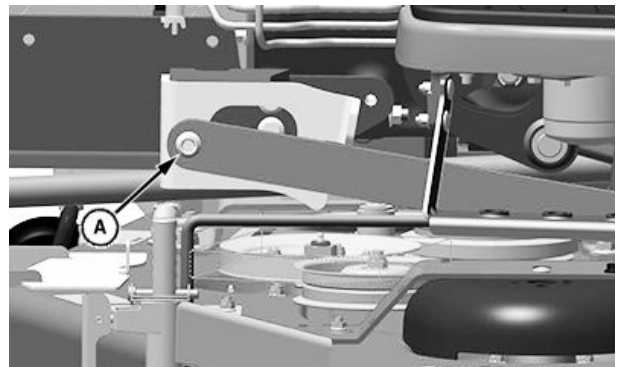
LV25043 —UN—28APR16

UP00731,000012E -19-11OCT19-4/5

d. Remove bolt (A), bushing, and locknut securing the rear lift link to the bracket on both sides.

e. Keep all hardware attached to the rear lift link and store for later use.

A—Bolt



LV25036 —UN—27APR16

UP00731,000012E -19-11OCT19-5/5

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 -19-26AUG13-1/1

Operating

Raising and Lowering Mower

Mower Lift System (3033R, 3038R, 3039R, 3045R, 3046R)

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

To raise the mower:

- Pull the SCV lever (A) to the left to raise the mower.

To lower the mower:

- Push the SCV lever (A) slightly to the right to lower the mower. Do not push the lever fully to the right, to avoid engaging the Regen function of the hydraulic circuit resulting in unintended motion.

A—SCV Lever



3033R, 3038R, 3039R, 3045R, 3046R

LV25105—UN—04MAY16

UP00731,0000134 -19-04MAY16-1/2

Mower Lift System (2032R, 2036R, 2038R)

1. Move the raise / lower lever (A) forward to lower the mower deck.
2. Move the raise / lower lever (A) back to raise the mower deck.

A—Raise / Lower Lever



2032R, 2036R, 2038R

LV25046—UN—03MAY16

UP00731,0000134 -19-04MAY16-2/2

Adjusting Mower Level (Side-to-Side)

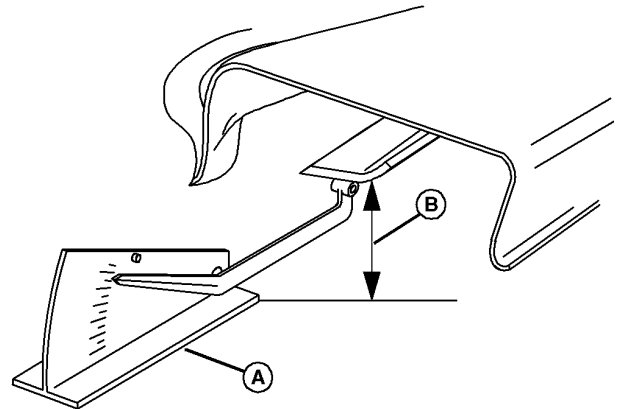
CAUTION: Rotating blades are dangerous. Before adjusting or servicing mower:

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

1. Park machine on a level surface, not on a slope.
2. Lock park brake.
3. Disengage mower blades.
4. Raise mower fully and stop engine.
5. Remove key.
6. Wait for engine and all moving parts to stop before leaving operator's seat.
7. Remove height lock pin.

NOTE: Mower wheels should not contact ground during leveling.

8. Lower mower slowly to the middle cutting height range, or 3 inches (76 mm).
9. Pull height lock link fully forward and lock at first hole available. Lower mower so pin supports height.
10. Measure distance from each outside blade tip (B) to the level surface.



Leveling Gauge (A) is available from your John Deere Dealer.

A—Leveling Gauge

B—Blade Tip

11. Remove retaining ring from right or left rear link support. Adjust only one link at a time. Adjust link as necessary to level deck. Install retaining ring.

MXAL41824—UN—18FEB13

UP00731,0000065 -19-10MAY16-1/1

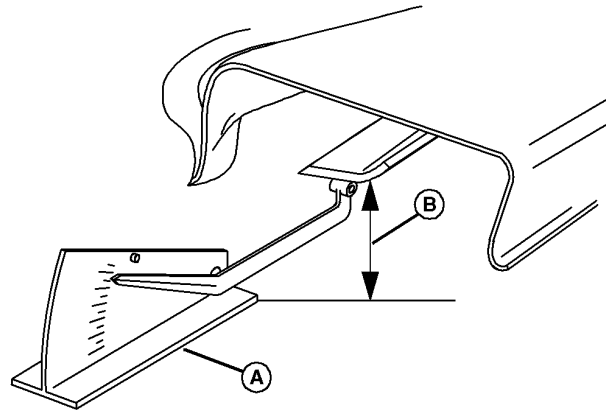
Adjusting Mower Level (Front-to-Rear)

1. Park machine on a level surface, not on a slope.
2. Lock park brake.
3. Disengage mower blades.
4. Raise mower fully and stop engine.
5. Remove key.
6. Wait for engine and all moving parts to stop before leaving operator's seat.
7. Remove height lock pin.

NOTE: Mower wheels should not contact ground during leveling.

8. Lower mower slowly to the middle cutting height range, or 3 inches (76 mm)
9. Pull height lock link fully forward and lock at first hole available. Lower mower so pin supports height.
10. Measure distance from each outside blade tip (B) to the level surface.

NOTE: Front of mower should never be higher than rear of mower.



Leveling Gauge (A) is available from your John Deere Dealer.

A—Leveling Gauge

B—Blade Tip

11. Front measurement should be 0 - 3.18 mm (0 - 1/8 in.) lower than rear.
12. Remove deck and adjust front yokes as required to obtain desired measurement.
13. If locks are not releasing or locking easily, front link may need to be loosened slightly. A sticking lock might require the opposing front yoke be tightened slightly.

UP00731,0000066 -19-10MAY16-1/1

Adjusting Mower Wheels

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

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

IMPORTANT: Avoid damage! The mower deck can be damaged if mower wheels are adjusted wrong:

- 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. Fully raise the mower.
4. Lock park brake.

5. Stop engine.
6. Remove key.
7. Wait for engine and all moving parts to stop before leaving operator's seat.
8. Set cut height with height lock pin and lower mower until the mower weight is supported by the height lock.
9. Set gage wheel height:
 - a. Release wheel lock.
 - b. Adjust wheel to 3/8-in. distance from ground and lock wheels.

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

- c. Install snap lock pin in hole just above gage wheel bracket.

UP00731,0000067 -19-26AUG13-1/1

Adjusting Height of Cut (2032R, 2036R, 2038R)

1. Adjust height-of-cut knob (A) to desired mower deck cutting height.
2. Height indicator flashes on instrument panel display.
3. Move raise / lower lever (B) to up or down position to raise or lower mower deck.
4. Mower deck will stop lowering at desired cutting height and indicator on instrument panel display turns solid.

A—Height-of-Cut Knob

B—Raise / Lower Lever



2032R, 2036R, 2038R



2032R, 2036R, 2038R

UP00731,0000136 -19-10MAY16-1/1

LV25048 —UN—04MAY16

LV25106 —UN—04MAY16

Adjusting Height of Cut and Using Height Adjust Link (3033R, 3038R, 3039R, 3045R, 3046R)

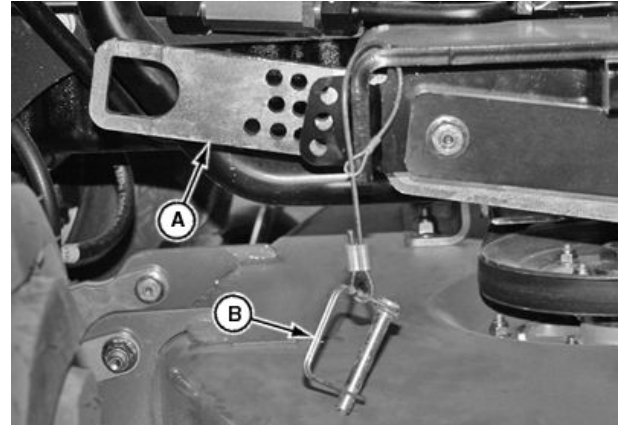
For Transport

NOTE: Do not mow with mower in highest (transport) position. Mow at least 25 mm (1 in.) lower than highest position.

- Raise deck to highest position, pull link forward and install pin in nearest hole available. Lower deck after pin is engaged to transport position.

To Set Cut Height

1. Lower mower slowly to desired cutting height.
2. Pull height adjust link (A) forward fully and place pin (B) in nearest hole. Be aware of hole location for any future adjustments.
3. Lower mower.
4. If cutting height is too low, raise mower, remove pin and install in adjacent hole then lower mower. Holes



3033R, 3038R, 3039R, 3045R, 3046R

A—Height Adjust Link

B—Pin

in height adjust link allow for adjustment in (13 mm) 1/2 increments.

UP00731,000012F -19-04MAY16-1/1

LV18685 —UN—20AUG13

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 -19-26AUG13-1/1

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 -19-06AUG15-1/1

Transporting Mower on Machine

Transporting Mower on Machine (3033R, 3038R, 3039R, 3045R, 3046R)

1. Remove height lock pin at left side of mower.
2. Pull height link fully forward and install pin in hole that secures link in highest position.

Transporting Mower on Machine (2032R, 2036R, 2038R)

1. Adjust height-of-cut knob to the transport position of 6 (A).
2. Move the raise / lower lever (B) to the up position to raise mower deck to highest or transport position.

A—Transport Position

B—Raise / Lower Lever



2032R, 2036R, 2038R



Transport Position - 2032R, 2036R, 2038R

LV25047—UN—03MAY16

LV25044—UN—04MAY16

UP00731,0000137 -19-10MAY16-1/1

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 -19-26AUG13-1/1

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 -19-26AUG13-1/1

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.

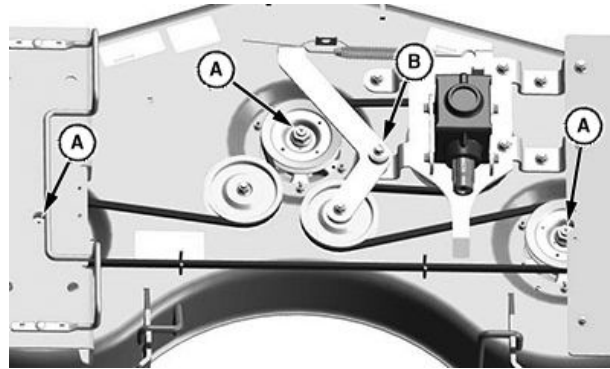
Oils meeting Military Specification MIL-L-10324A may be used as arctic oils.

UP00731,000006F -19-26AUG13-1/1

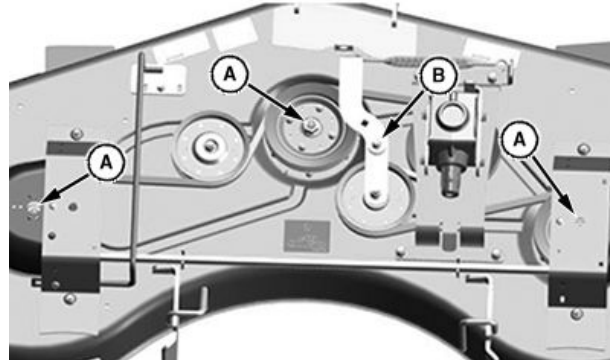
Lubricating Mower

1. Lubricate three grease fittings (A) on sheaves with recommended grease.
2. Lubricate grease fitting (B) on tensioner pulley with recommended grease.

A—Grease Fittings on Sheaves B—Grease Fitting on Tensioner Pulley



60D Mower Shown



72D Mower Shown

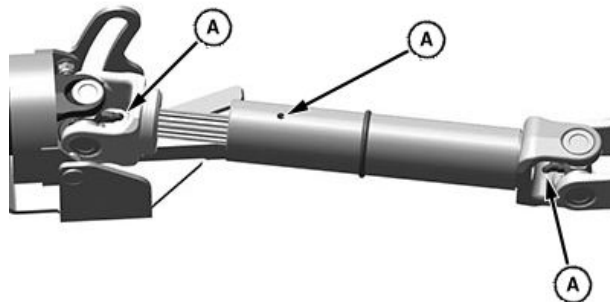
LV25027—UN—26APR16

LV25028—UN—26APR16

UP00731,0000131 -19-28APR16-1/2

3. Lubricate three grease fittings (A) on mid PTO with recommended lubricant.

A—Grease Fittings on mid PTO



LV25037—UN—27APR16

UP00731,0000131 -19-28APR16-2/2

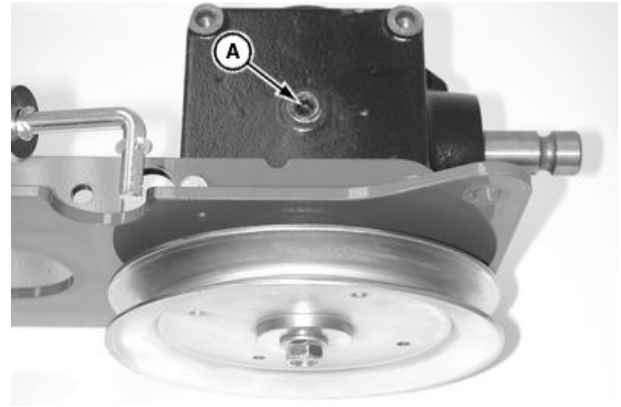
Servicing Gearbox

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. See Removing Belt in SERVICE Section.
2. Remove plug (A) on both sides of gearbox.
3. Lift and turn gearbox bracket on side to drain oil from gearbox.
4. Route belt around gearbox sheave as you install gearbox bracket on five bolts. See Installing Belt in SERVICE.
5. Following remaining instructions in Installing Belt in SERVICE to install gearbox and rod.



A—Plug

6. Add recommended oil to bottom edge of plug hole in gearbox.
7. Install plugs.

UP00731,0000071 -19-05SEP13-1/1

LV18689—UN—20AUG13

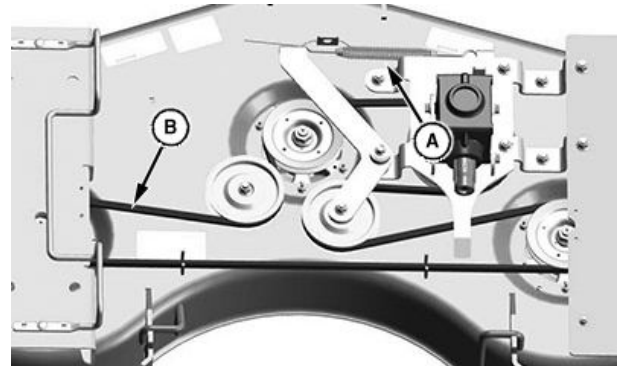
Servicing Mower Belt

Removing Belt

1. Remove mower from machine.
2. Clean area around and under ramps.
3. 60D Mower:
 - a. Remove spring (A) to relieve belt tension.
 - b. Remove belt (B) from mower.

A—Spring

B—Belt



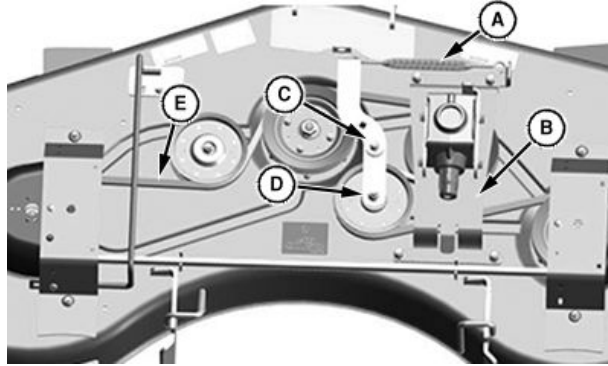
Continued on next page

UP00731,0000132 -19-28APR16-1/2

LV25029—UN—26APR16

4. 72D Mower:

- Remove spring (A) to relieve belt tension.
- Remove the gearbox support (B) by removing four nuts.
- Remove the nut, washer and tensioner (C).
- Remove the bolt and hardware retaining the tensioner pulley (D).
- Remove belt (E) from mower.



LV25030 —UN—28APR16

Installing Belt

- Install belt around sheaves and route as shown.
- 60D Mower: Install spring.
- 72D Mower: Install tensioner pulley, tensioner, gearbox support, and spring..

A—Spring
B—Gearbox Support
C—Tensioner

D—Tensioner Pulley
E—Belt

UP00731,0000132 -19-28APR16-2/2

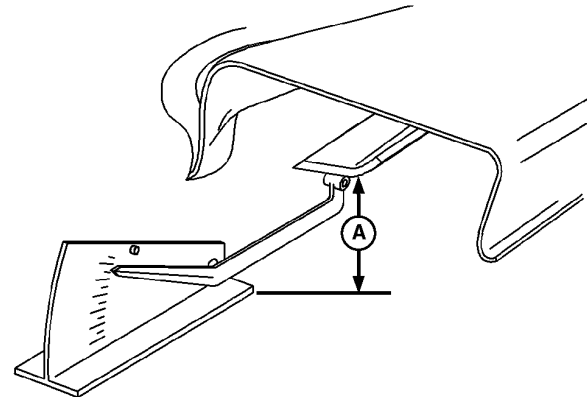
Servicing Mower Blades

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.

Checking for Bent Mower Blades

- Park machine on a level surface, not on a slope.
- Disengage mower blades.
- Fully raise the mower.
- Lock the park brake.
- Stop the engine.
- Remove the key.
- Wait for engine and all moving parts to stop before you leave the operator's seat.
- Block the mower.
- Measure the distance (A) from blade tip to level surface with a ruler or a leveling gauge available at your John Deere dealer.
- Rotate blade 180° and measure the distance between other end of blade and surface.
- Check all blades. Install new blade if difference between measurements is more than 3 mm (1/8 in.).



A—Distance - Blade to Level Surface

LV18692 —UN—20AUG13

Continued on next page

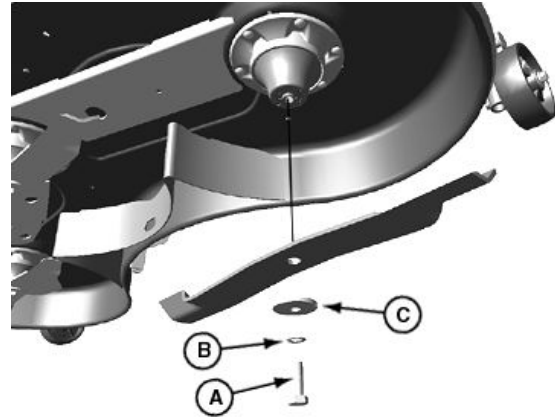
UP00731,0000090 -19-10MAY16-1/5

Removing Mower Blades

1. Park machine safely.
2. Remove mower from machine.
3. Use a suitable lifting device to raise mower to gain access to blades.
4. Insert wood block between blade and mower to prevent blade from turning when removing bolt.
5. Remove bolt (A), washer (B), washer (C) and blade.

A—Bolt
B—Washer

C—Washer



UP00731,0000090 -19-10MAY16-2/5

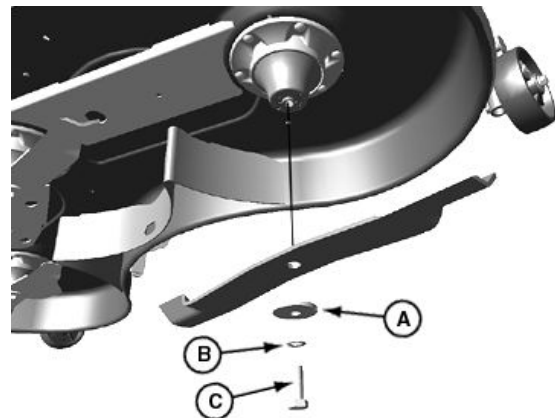
LV18693 —UN—20AUG13

Installing Mower Blades

1. Install blade with cutting edge toward the ground.
2. Install blade, washer (A), washer (B) and bolt (C).
3. Insert wood block between blade and mower to prevent blade from turning when tightening bolt. Tighten to 122 N•m (90 lb-ft).

A—Washer
B—Washer

C—Bolt



UP00731,0000090 -19-10MAY16-3/5

LV18694 —UN—20AUG13

Sharpening Blades

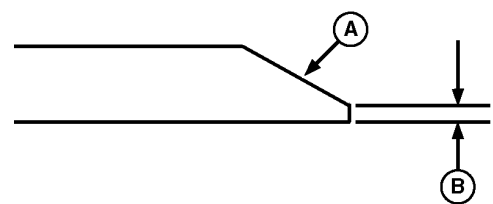
CAUTION: Avoid injury! Rotating blades are dangerous. Before adjusting or servicing mower:

- 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.

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.

A—Bevel

B—Cutting Edge



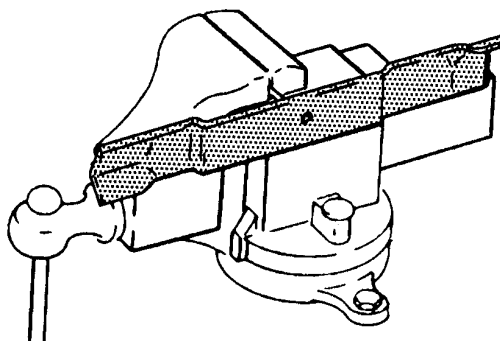
Continued on next page

UP00731,0000090 -19-10MAY16-4/5

LV18695 —UN—20AUG13

Balancing Blades

1. Clean the blade.
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.



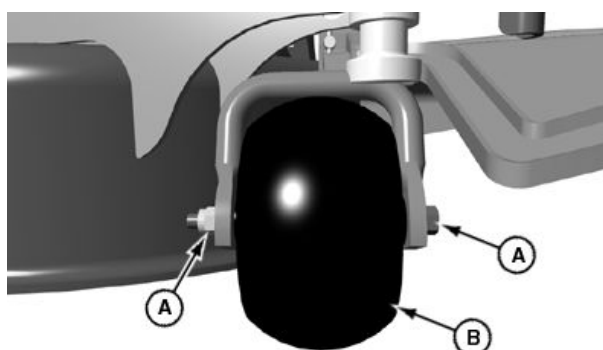
LV18696—UN—20AUG13

UP00731,0000090 -19-10MAY16-5/5

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's seat.
8. Remove wheel hardware (A).

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



A—Wheel Hardware

B—Wheel

9. Install new wheel (B) with hardware.

LV18697—UN—20AUG13

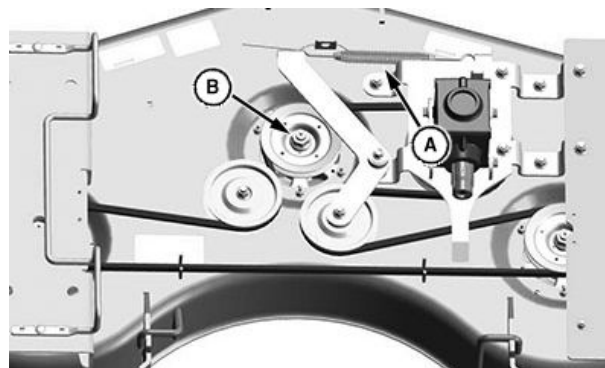
UP00731,0000077 -19-05SEP13-1/1

Replacing Sheaves

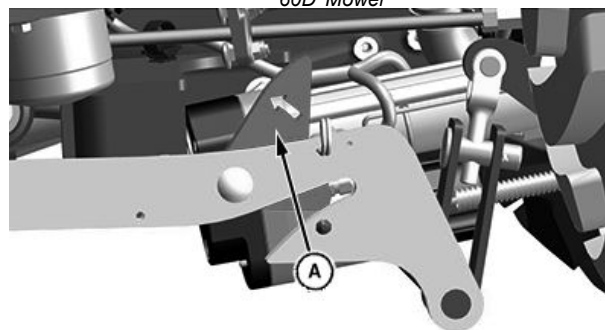
1. Remove spring (A) to relieve belt tension.
2. If necessary, remove drive over ramp (B).
3. 60D mower: Remove center bolt (C) on sheave to be replaced.
4. 72D mower: Remove four bolts (D) on sheave to be replaced.
5. Replace sheave(s) and install hardware.

A—Spring
B—Ramp

C—Center Bolt
D—Bolt



60D Mower



72D Mower

LV25031 —UN—28APR16

LV25032 —UN—11MAY16

UP00731,0000133 -19-28APR16-1/1

Troubleshooting

Use Troubleshooting Chart

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

When you have checked all the possible causes listed and you are still experiencing the problem, see your John Deere distributor.

KN52281,1003F58 -19-22AUG12-1/1

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 Using Reverse Implement Option in your machine's operator's manual.)
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.

UP00731,0000289 -19-06JUL16-1/1

Specifications

60 Inch 7-Iron Mower Deck

Mower Type..... Mulch or Side Discharge
Cutting Blades..... 3
Overall Width 1.9 m (75.3 in.)
Overall Length..... 1.04 m (41 in.)
Cutting Height^a..... 3.8 - 12.7 cm (1-1/2 - 5 in.)
Cutting Width 1.5 m (60.9 in.)
Mower Weight 147 kg (324 lb.)
Blade Bolt Torque 122 N·m (90 lb.-ft.)
Gearbox Oil Capacity 136 mL (4.6 oz.)

^aMay vary depending on tire size.

UP00731,0000079 -19-26AUG13-1/1

72 Inch 7-Iron Mower Deck

Mower Type..... Mulch or Side Discharge
Cutting Blades..... 3
Overall Width 2.19 m (86 in.)
Overall Length..... 1.14 m (45 in.)
Cutting Height^a..... 3.8 - 12.7 cm (1-1/2 - 5 in.)
Cutting Width 1.8 m (72.8 in.)
Mower Weight 156 kg (345 lb.)
Blade Bolt Torque 122 N·m (90 lb.-ft.)
Gearbox Oil Capacity 136 mL (4.6 oz.)

^aMay vary depending on tire size.

UP00731,000007A -19-26AUG13-1/1

Getting 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 -19-15APR13-1/1

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 -19-15APR13-1/1

Order Service Parts Online

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

AP43109,00002D1 -19-15APR13-1/1

John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with your John Deere dealer's parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to the appropriate attachment, machine or equipment operator manuals.
 2. Contact your John Deere dealer with unanswered questions.
 3. In North America or Canada, call the John Deere Customer Contact.
- Call 1-800-537-8233 and provide product serial number and model

AP43109,00002D2 -19-15APR13-1/1

Page

N

S

T

W

