60, 72 Inch Side Discharge, 62, 72 Inch Rear Discharge, and 60, 72 Inch GLC Side Discharge Decks for Front Mount Mowers
Serial Number 090001-

JOHN DEERE

OPERATOR'S MANUAL

Side and Rear Discharge Mower Decks for Front Mount Mowers

OMUC33477 ISSUE A5 (ENGLISH)

John Deere Turf Care
Export Edition
Printed in U.S.A.

Thank You for Purchasing a John Deere Product

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

MX00654,000020B-19-10MAY17

Using Your Operator's Manual

Read this entire operator's manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator's manual, along with the machine operator's manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call the John Deere Customer Contact Center at 1-800-537-8233 for assistance.

Warranty information on this John Deere attachment can be found in the warranty that came with your John Deere tractor or vehicle.

TH84124,00000D9-19-23MAY13

Professional Use Only

This non-road mobile machinery is to be made available exclusively for professional use.

MK71445,0000004-19-29AUG18

Machine Use

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

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

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

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

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

The 60 and 72 in. MCS decks can be operated without the MCS, but the MCS cannot be operated with any other deck.

OUMX068,0001027-19-10MAY16

Special Messages

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

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

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

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

MX00654,000020D-19-05JUN17

Service Literature

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

https://techpubs.deere.com/

or call:

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

TH84124,0000199-19-29JUN22

Parts

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

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

Order Service Parts Online

Visit https://partscatalog.deere.com/jdrc/ for your Internet connection to parts ordering and information.

TC00531,00000E9-19-14JUN23

Contents

Contents

Introduction 2
Product Identification 3
Safety Labels without Text 4
Safety 7
Preparing Vehicle 8
Assembly 8
Installing 10
Removing and Storing 16
Operating 17
Service Intervals 22
Service Lubrication 23
Service Mower 25
Troubleshooting 32
Specifications 32
Declaration of Conformity 34
John Deere Quality Statement 36
Index 38

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 © 2001, 2004, 2005, 2007, 2009, 2010, 2013, 2014, 2015, 2017, 2018, 2020, 2021, 2022

Product Identification

Product Compatibility

Mowers are compatible with the 1400 and 1500 Series Front Mowers and the 1550, 1570, 1575, 1580, 1585 TerrainCut™ Front Mowers

MX00654,0000077-19-07OCT15

Record Identification Numbers

60-Inch 7-Iron™ Side Discharge

PIN (050001-)

72-Inch 7-Iron™ Side Discharge

PIN (050001-)

62-Inch Fastback™ Rear Discharge

PIN (050001-)

60-Inch 7-Iron™ GLC

PIN (050001-)

72-Inch 7-Iron™ GLC

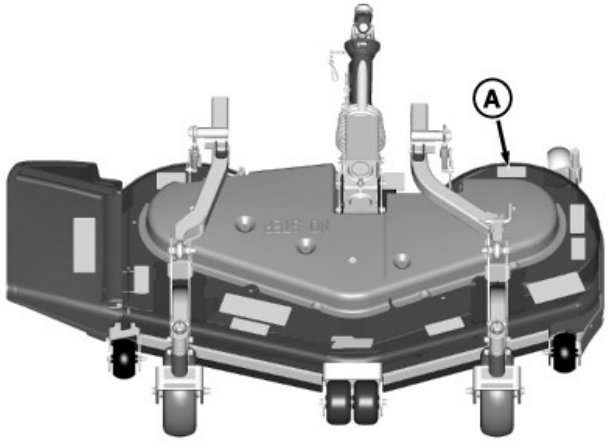
PIN (050001-)

72-Inch Fastback™ Rear Discharge

PIN (340001-)

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.



TCT008387—UN—22AUG13

60 in. deck shown.

DATE OF PURCHASE:

_____

DEALER NAME:

_____

DEALER PHONE:

_____

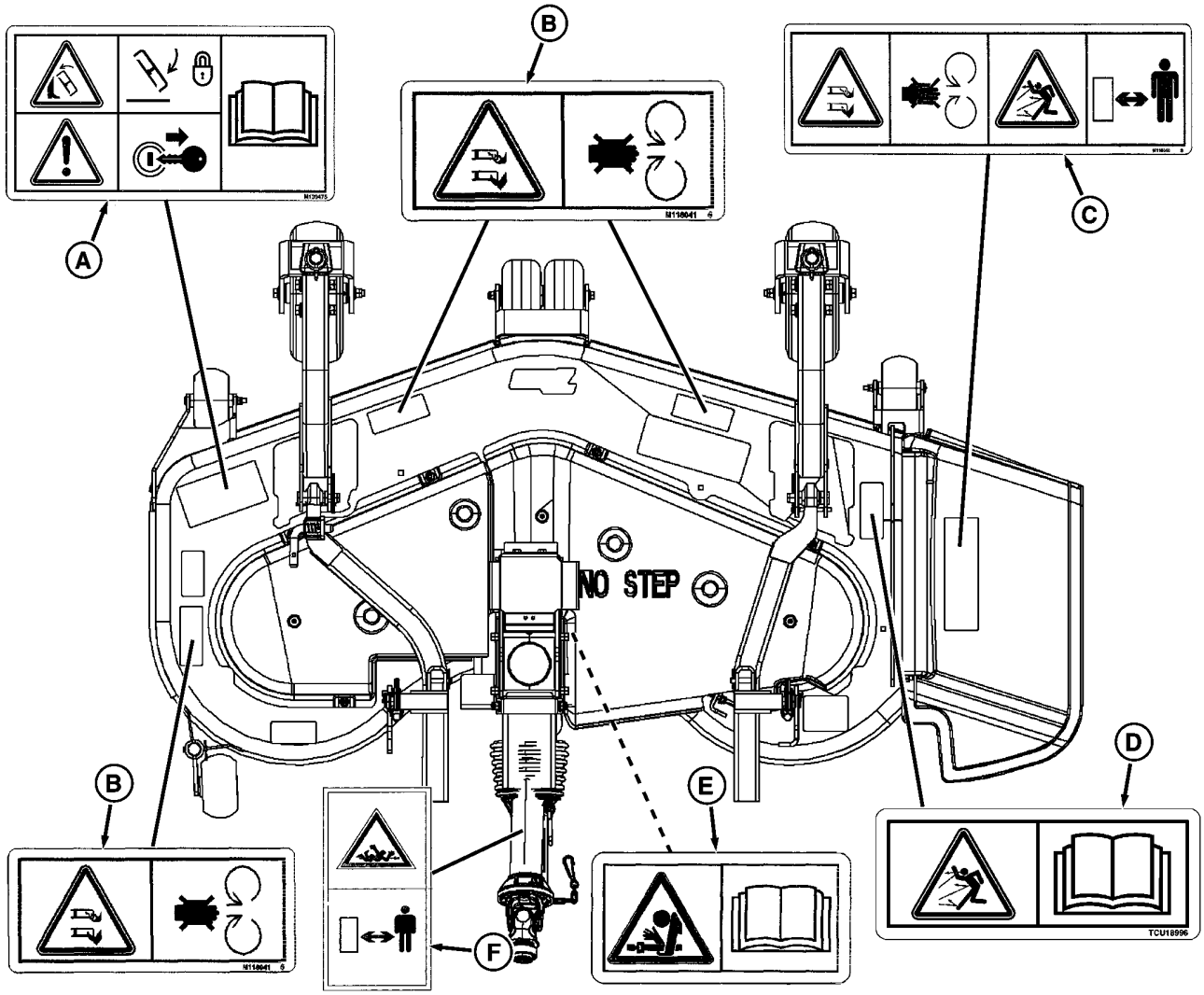
PRODUCT SERIAL NUMBER (A):

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

h2ac9y3,1655732120077-19-29JUN22

Safety Labels without Text

Safety Label Location (All Except 62 in. Rear Discharge)



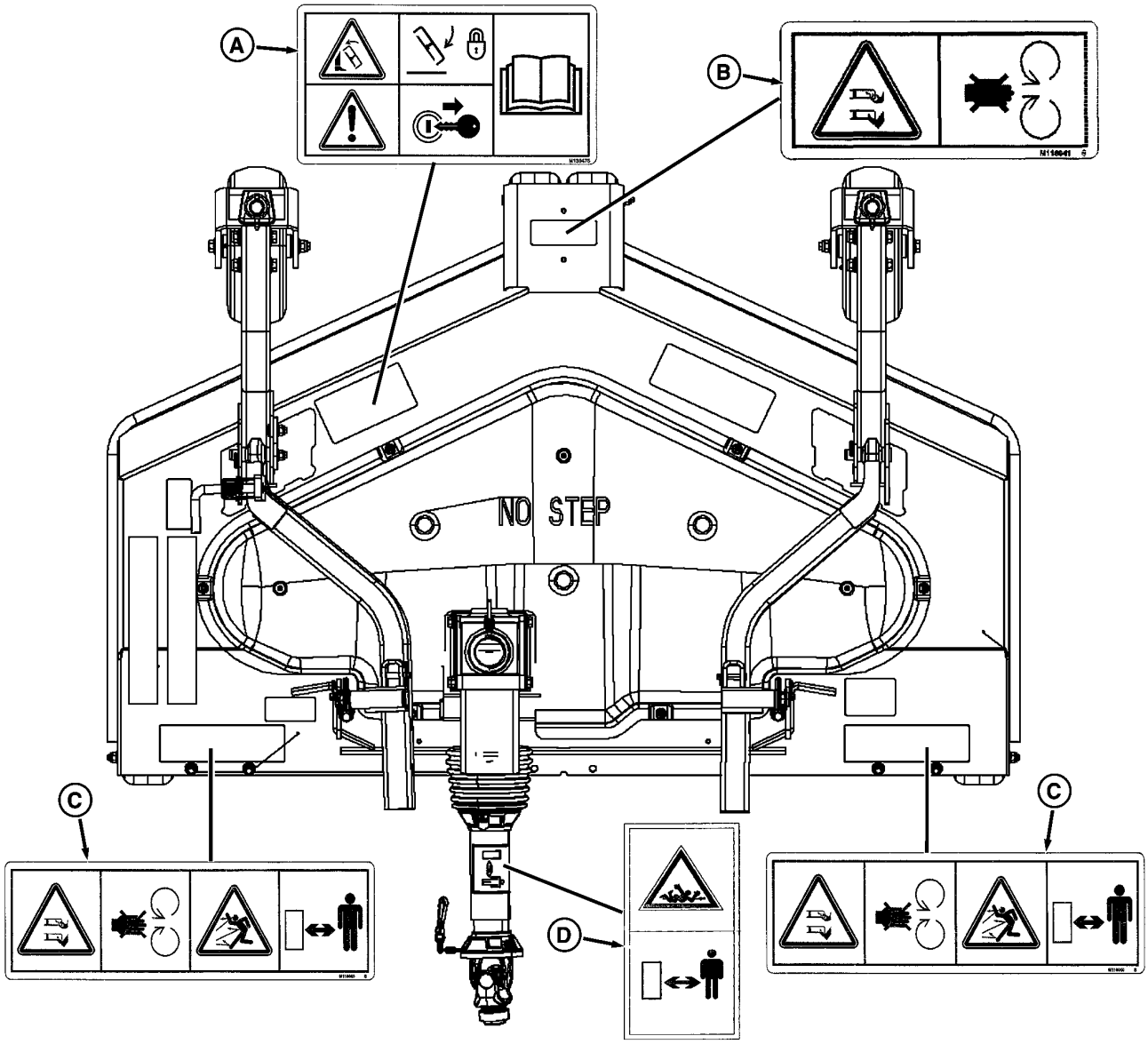
TCT008388—UN—25FEB14

Pictorial labels are required for certain parts of the world. Your machine may not be equipped with these labels.

A—AVOID INJURY AND READ OPERATOR'S MANUAL M139475
B—AVOID INJURY FROM ROTATING BLADES M118041
C—AVOID INJURY FROM ROTATING BLADES AND THROWN OBJECTS M118040
D—AVOID INJURY FROM THROWN OBJECTS TCU18996
E—AVOID INJURY FROM ROTATING SHAFTS AND DRIVELINES (GLC DECKS ONLY) M121419
F—AVOID INJURY FROM ROTATING SHAFTS AND DRIVELINES M119516

OUMX068,0000160-19-31JUL14

Safety Label Location (62 in. Rear Discharge)



TCT008389—UN—19FEB14

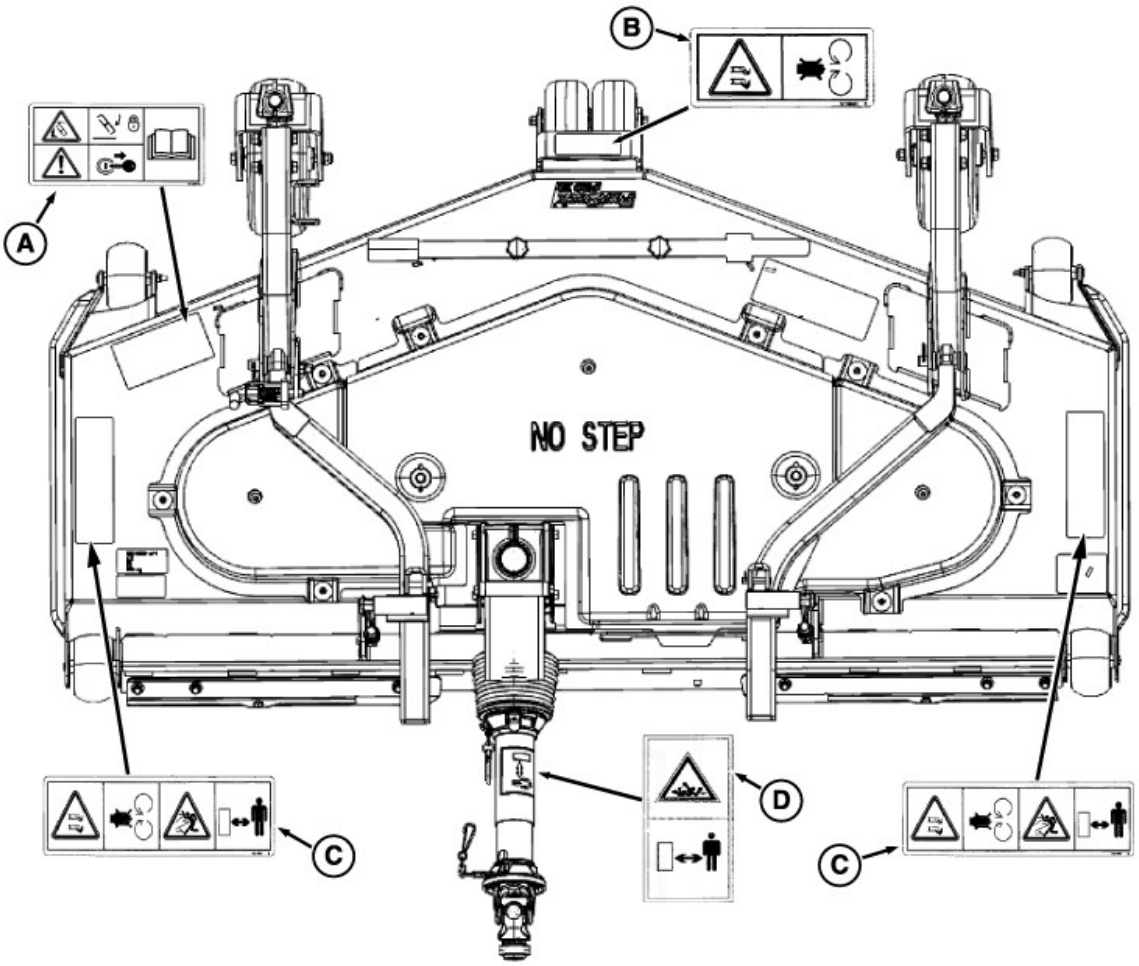
Pictorial labels are required for certain parts of the world. Your machine may not be equipped with these labels.

A—AVOID INJURY AND READ OPERATOR'S MANUAL M139475
B—AVOID INJURY FROM ROTATING BLADES M118041
C—AVOID INJURY FROM ROTATING BLADES AND THROWN OBJECTS M118040
D—AVOID INJURY FROM ROTATING SHAFTS AND DRIVELINES M119516

OUMX068,000015C-19-31JUL14

Safety Labels without Text

Safety Label Location (72 in. Rear Discharge)



TC102122—UN—22JUN22

Pictorial labels are required for certain parts of the world. Your machine may not be equipped with these labels.

A—AVOID INJURY AND READ OPERATOR'S MANUAL M139475
B—AVOID INJURY FROM ROTATING BLADES M118041
C—AVOID INJURY FROM ROTATING BLADES AND THROWN OBJECTS M118040
D—AVOID INJURY FROM ROTATING SHAFTS AND DRIVELINES M119516

h2ac9y3,1655898095638-19-29JUN22

Understanding the Machine Safety Labels without Text

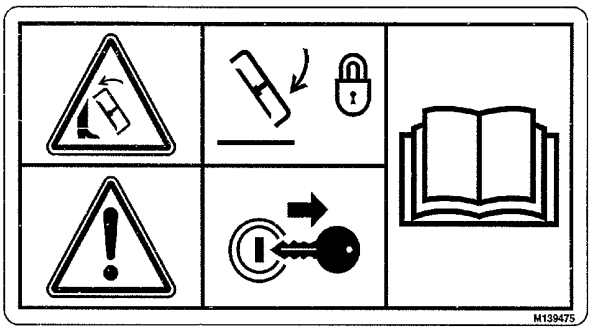
TCT005498—UN—11SEP12

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

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

MX00654,0000389-19-09JAN23

Avoid Injury and Read Operator's Manual



TCAL46502—UN—12APR13

Avoid Injury

- Do not operate mower with shields removed.

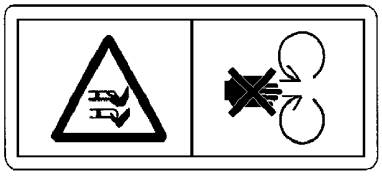
- Keep hands and feet away from mower deck when engine is running.
- Remove ignition key before leaving mower.
- Blades are sharp, use caution when deck is raised.
- Read, understand, and follow all instructions in the operator's manual.

Before Servicing

- Lower or secure mower in raised position with service lock.
- Shut off engine and remove ignition key before performing service.

OUMX068,0000158-19-23AUG13

Avoid Injury From Rotating Blades

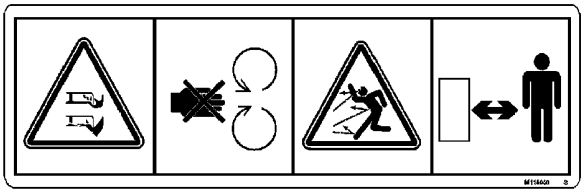


TCAL46501—UN—12APR13

- Do not put hands or feet under or into mower when engine is running.
- Do not operate mower without discharge chute or entire grass catcher in place.

OUMX068,0000157-19-23AUG13

Avoid Injury From Rotating Blades and Thrown Objects

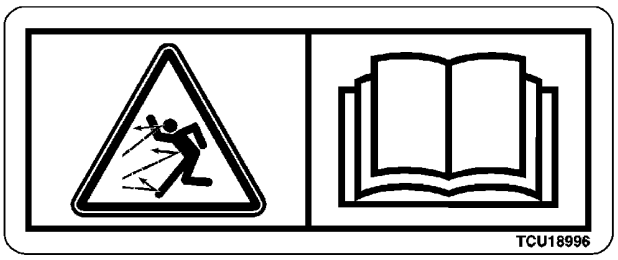


TCAL46500—UN—12APR13

- Do not put hands or feet under or into mower when engine is running.
- Do not operate mower without discharge chute or entire grass catcher in place.
- Before mowing, clear area of objects that may be thrown by blade.
- Stay clear while engine is running.

OUMX068,0000156-19-23AUG13

Avoid Injury From Thrown Objects

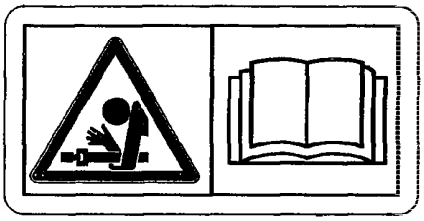


TCT009181—UN—26OCT13

- Before mowing, clear area of objects that can be thrown by blade.
- Read, understand, and follow all instructions in the operator manual.

OUMX068,000015D-19-26OCT13

Avoid Injury From Rotating Shafts and Drivelines (GLC Decks Only)



TCT009182—UN—26OCT13

- Stay clear of rotating shafts and drivelines.
- Read, understand, and follow all instructions in the operator manual.

OUMX068,000015B-19-26OCT13

Avoid Injury From Rotating Shafts and Drivelines

TCAL46503—UN—12APR13

- Stay clear of rotating shafts and drivelines.
- Rotating shaft, keep hands, feet and clothing away.
- Keep bystanders a safe distance away.

OUMX068,0000159-19-23AUG13

Safety

Safe Operation

This deck is intended for use with a John Deere Front Mower. See the Operator's Manual supplied with the machine for information on safe operation.

MX00654,0000023-19-22APR14

Preparing Vehicle

Install Enclosure Kit

IMPORTANT: Avoid damage from fire! Installation of and maintenance of the enclosure kit on all machines using a rear discharge deck helps prevent the accumulation of debris on the machine. Debris accumulation can increase the risk of fire. The installation of the enclosure kit does not eliminate the need to clean the machine. Please refer to the machine clean out section of the vehicle operator's manual.

An enclosure kit must be installed when using a rear discharge mower deck. Follow the installation instructions included when installing the aftermarket kit.

OUO2004,0000690-19-12MAR20

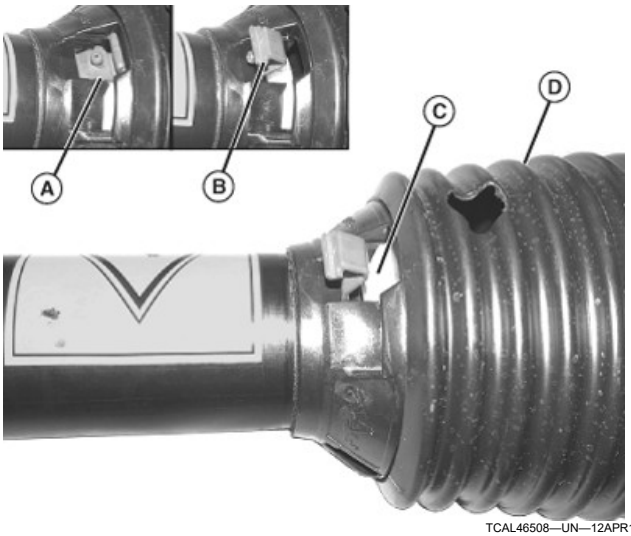
Assembly

Caster Wheels

Add recommended grease to grease fitting on caster wheel until it can be seen seeping out of wheel bearings on both sides of wheel. Repeat for other caster wheel.

OUMX068,000015E-19-22AUG13

Install PTO Shaft

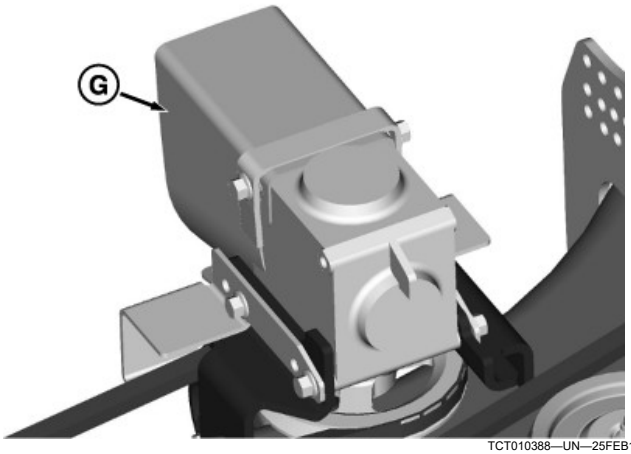


TCAL46508—UN—12APR13

1. Release the shield lock tab (A) using a screwdriver or similar tool and flip it (B) toward the center of the drive shaft.
2. Grasp the drive shaft yoke and rotate the inner white ring (C) to release the outer shield (D).

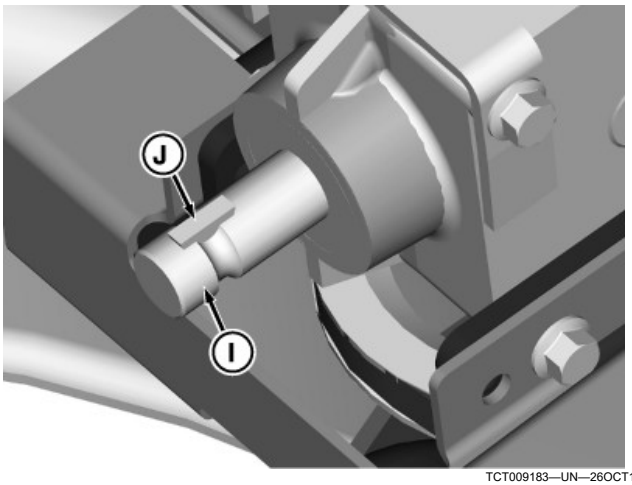
TCAL46509—UN—12APR13

3. Slide the shield (E) away from the yoke (F).



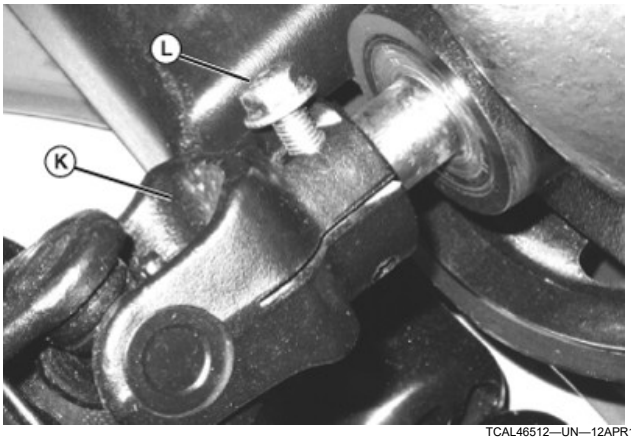
TCT010388—UN—25FEB14

4. Pull back rubber shield (G) on top of mower deck to access the gearbox input shaft.



TCT009183—UN—26OCT13

5. Clean shaft (I) with a wire brush. Install shaft key (J) from bag of parts.

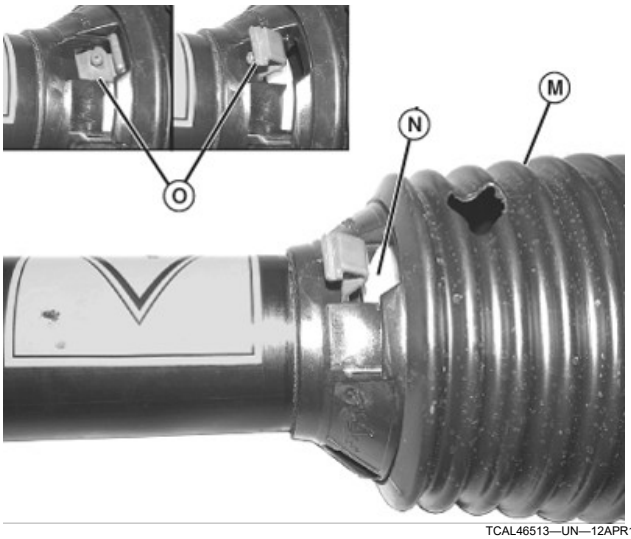


TCAL46512—UN—12APR13

6. Install yoke (K) onto input shaft, lining up key and slot on shaft with the yoke.
7. Install M10x50 flange head cap screw (L) from bag of parts into yoke and tighten to specification.

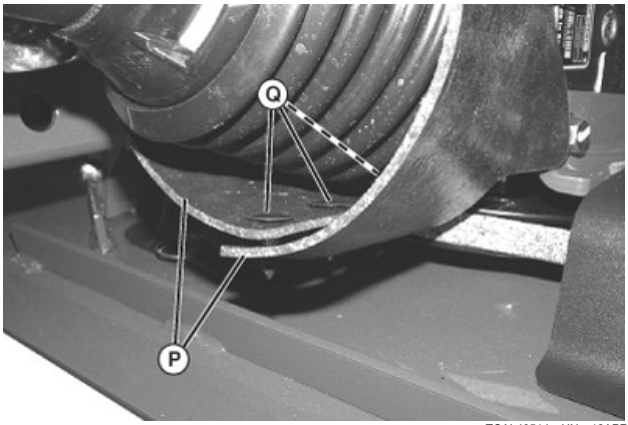
Specification

PTO Shaft Yoke Bolt—Torque. . . . . 122 N·m (90 lb.-ft.)



TCAL46513—UN—12APR13

8. Slide shield (M) over yoke, rotate inner white ring (N) and engage tab (O) to lock shield.



TCAL46514—UN—12APR13

9. Fold the rubber shield (P) around the drive shaft shield and secure with three push retainers (Q).
10. Remove plastic bag from each chain on the drive shaft shield.

OUMX068,00003B4-19-25FEB14

Install Deflector (60 and 72 in. Side Discharge)

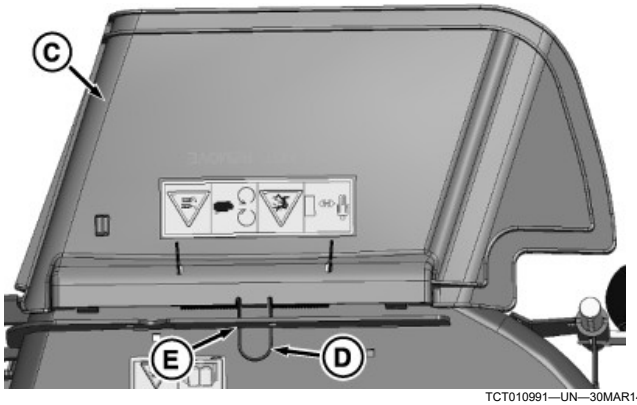
CAUTION: Avoid injury! Components are installed under spring tension. Wear eye protection and use proper tools when installing and removing components with spring tension.

TCT010989—UN—30MAR14

1. Remove pivot pin (A) from the deflector.

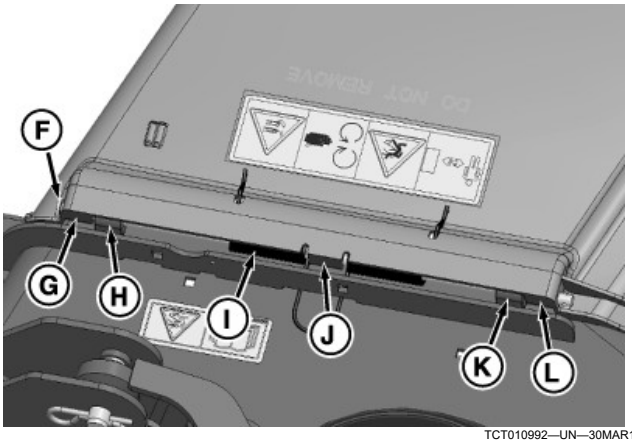
TCT010990—UN—30MAR14

2. Locate the chute hinge spring (B) from the bag of parts. Install both ends of the spring through the slots in the deflector chute as shown. The legs of the spring must point downward.



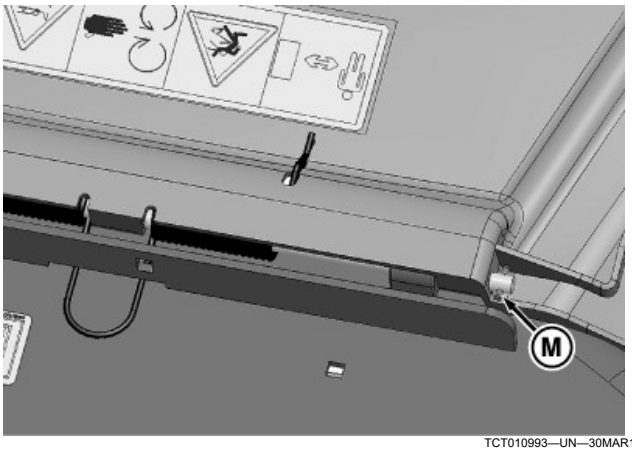
TCT010991—UN—30MAR14

3. Position the deflector chute (C) next to the mower deck discharge opening with the spring body aligned with the chute pivot holes. Place the rounded tip (D) of the spring onto the top of the mower deck, and slide it through the notch (E) in the mower deck reinforcement bracket.



TCT010992—UN—30MAR14

4. Insert the chute pivot pin (F) through the front chute pivot (G), front deck support (H), chute spring (I), middle chute pivot (J), rear deck support (K), and rear chute pivot (L).



TCT010993—UN—30MAR14

5. Install spring pin (M) (from the bag of parts) into the hole in the end of the discharge chute hinge pin. Drive pin into place using a drift and hammer.

OUMX068,000069E-19-30MAR14

Installing

Install Proper Ballast (1435, 1445, 1545, 1565)

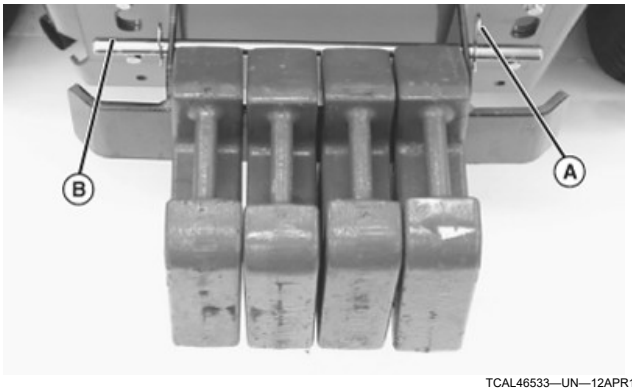
CAUTION: Avoid injury! Machine can become unstable when operating with attachment. Ballast is required when the attachment is installed.

When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

When attaching mower decks to the front mower, add the following number of John Deere 19 kg (42 lb.) suitcase weights to the rear weight bracket kit to improve the handling and stability of the front mower.

- 60 in. Side Discharge Mower Deck - No Weights
- 72 in. Side Discharge Mower Deck - Two Weights
- 62 in. Rear Discharge Mower Deck - One Weight
- 72 in. Rear Discharge Mower Deck- Four Weights



TCAL46533—UN—12APR13

1. Remove spring pin (A).
2. Pull rod (B) out of weight bracket.
3. Add John Deere 19 Kg (42 lb.) suitcase weights to the weight bracket, as specified.
4. Install rod (B) and secure with spring pin (A).

h2ac9y3,1655812145490-19-29JUN22

Install Proper Ballast (1550, 1570, 1575, 1580, 1585)

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

When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

When attaching mower decks to the front mower, add the following weight to improve the handling and stability of the front mower:

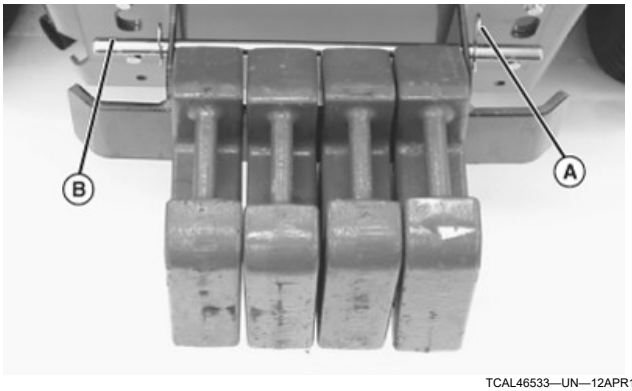
Applicable to Vehicle Serial Numbers 10001-49999 (MY15-MY18)

	60SD Export**	72SD Export**	62RD Export
Cab	Standard wheel track width with (5) Rear Weights*	Wide wheel track width with (6) Rear Weights*	Standard wheel track width, (2) LH and RH Wheel Weights with (5) Rear Weights* Or Wide wheel track width with (5) Rear Weights*
No Cab	Standard wheel track width with (0) Rear Weight	Standard wheel track width with (2) Rear Weights*	Standard wheel track width with (0) Rear Weight
*19 kg (42 lb.) Rear Suitcase Weight			
**See MCS/GLC Operator Manual for ballast recommendation when hopper is installed.			

Applicable to Vehicle Serial Numbers 50001- (MY19-)

	60SD Export**	72SD Export**	62RD Export	72RD Export
Cab	Standard wheel track width with (4) Rear Weights*	Wide wheel track width with (5) Rear Weights*	Standard wheel track width, (1) LH and RH Wheel Weights* Or Wide wheel track width with (3) Rear Weights*	Wide wheel track width with (6) Rear Weights*
No Cab	Standard wheel track width with (0) Rear Weight	Standard wheel track width with (1) Rear Weights*	Standard wheel track width with (0) Rear Weight	Standard wheel track width with (1) Rear Weight*
*19 kg (42 lb.) Rear Suitcase Weight				
**See MCS/GLC Operator Manual for ballast recommendation when hopper is installed.				

To install rear weights:



TCAL46533—UN—12APR13

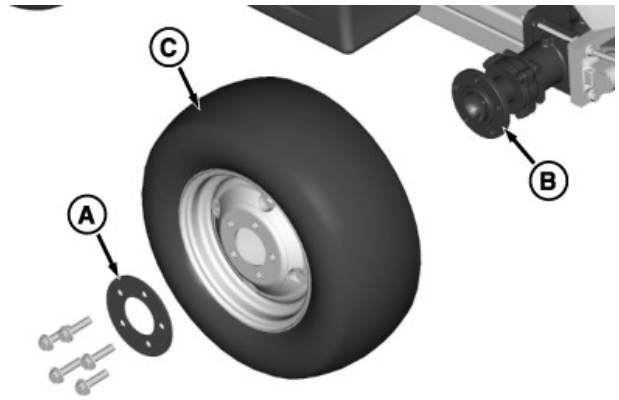
1. Remove spring pin (A).
2. Pull rod (B) out of weight bracket.
3. Add John Deere 19 Kg (42 lb.) suitcase weights to the weight bracket, as specified.
4. Install rod (B) and secure with spring pin (A).

h2ac9y3,1655813142604-19-29JUN22

Adjust Front Wheel Track Width

If you are operating a TerrainCut™ mower equipped with a cab (1575 or 1585) your wheel track width may need to be adjusted for proper ballast.

When a smaller width deck (60SD or 62RD) is installed, the standard track width is typically used to improve trimability.



TCT011199—UN—29MAY14

1. Remove wheel bolts, washers, wheel, and reinforcement ring (A) from front axle hub (B). Retain hardware and reinforcement ring for later use.
2. Install wheel (C) onto axle hub with wheel flipped so tire is offset away from vehicle.

NOTE: Valve stem will be on inner wheel face toward vehicle.

3. Reinforcement ring (A) must always be placed on the outside of the wheel in wide or standard wheel track positions.
4. Tighten wheel bolts to specified torque. (See SPECIFICATIONS section in the vehicle operators manual.)

OUMX068,00007D3-19-05JUN14

Check Tire Pressure

Check tire pressure of all machine tires before transporting or mowing with machine.

- Check machine service intervals label for pressures.

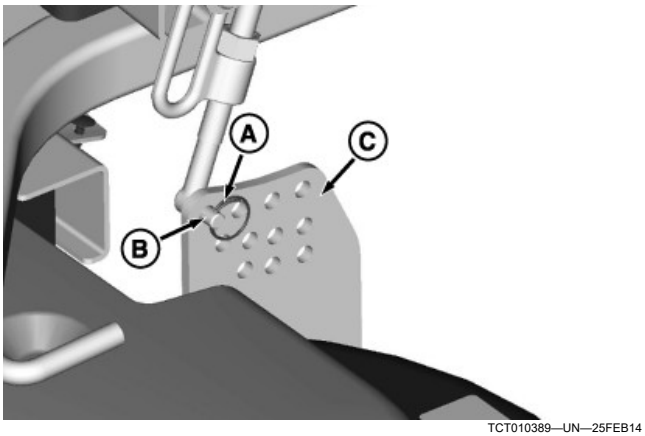
OUMX068,000016A-19-26OCT13

Installing Mower Deck

CAUTION: Avoid injury! Drive the machine slowly and avoid quick stops when the attachment is removed. Do not operate machine at higher speeds without attachment installed.

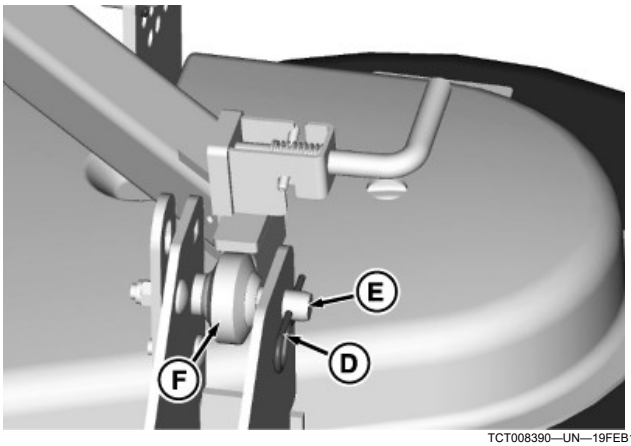
NOTE: Procedure shown is for the 60 in. side discharge deck. Procedure for the 62 in. and 72 in. deck is the same.

1. Drive machine up to mower deck, lining up center of machine with mower deck drive shaft.
2. Park machine safely. (See Parking Safely in the Safety section.)



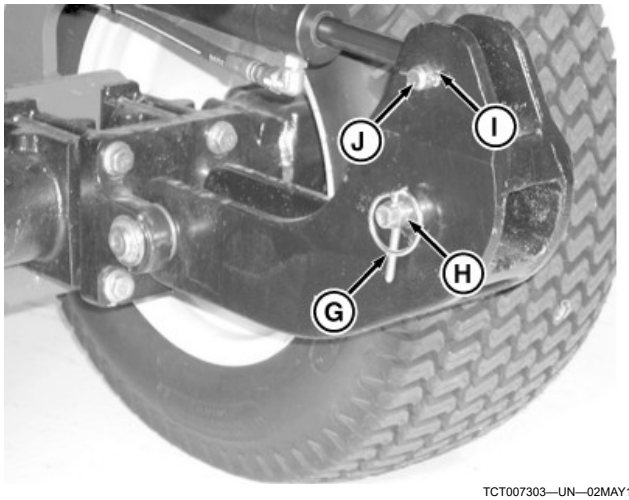
TCT010389—UN—25FEB14

3. Remove retainer ring (A) from hanger pin (B) on both sides of deck.
4. Pull hanger pins out of adjustment plates (C).



TCT008390—UN—19FEB14

5. Remove spring pin (D) and drilled pin (E) from front of lift arm (F), and remove lift arm from mower deck.

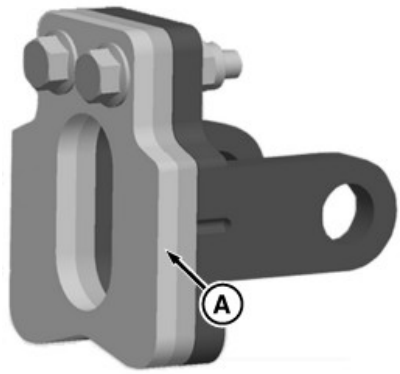


TCT007303—UN—02MAY13

6. Remove hitch pin (G) and drilled pin (H) from each lift arm.
7. Insert the mower deck lift arms into the machine lift arm sockets.
8. Align the holes in lift arms with holes in lift arm sockets, and install drilled pins (H) on left and right sides of machine. Install hitch pins (G) into drilled pins.

CAUTION: Avoid injury! Hydraulic components may have stored energy. Before servicing the machine, carefully release pressure from any hydraulic components by lowering attachment components completely and moving hydraulic control levers back and forth.

9. Remove cotter pin (I). Remove drilled pin (J) and remove cylinder.



TCT008254—UN—09AUG13

Refer to chart to determine the correct number of spacers

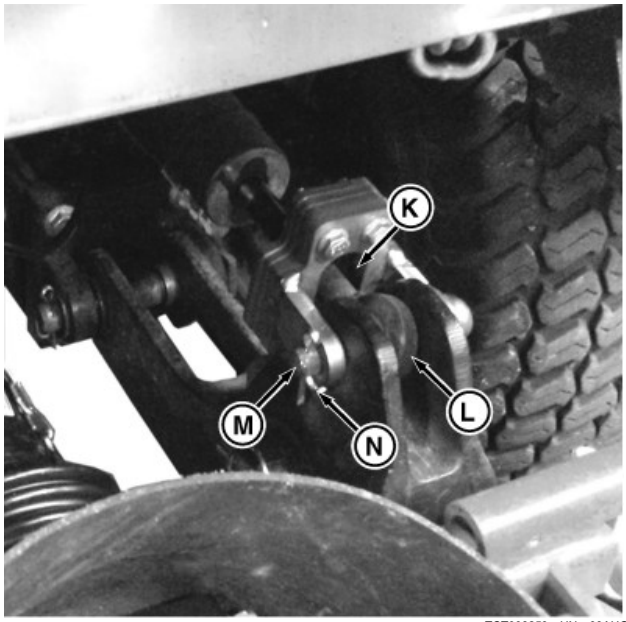
10. Add required number of spacers (A) to the up stop.

Specification

Spacer Nut—Torque. . . . . 35 N·m (25.8 lb·ft)

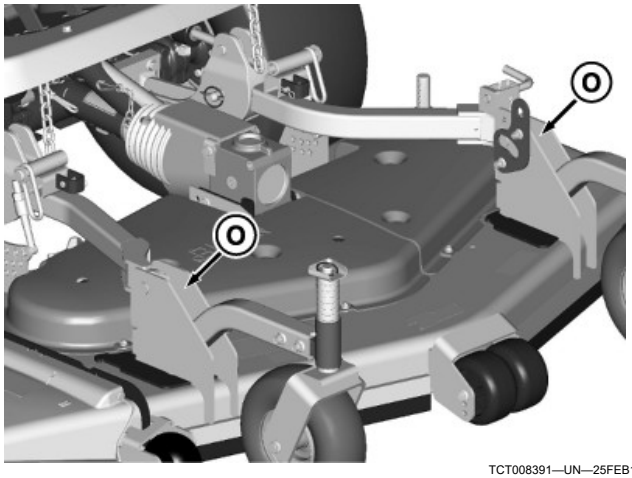
Deck	Tire Size	Up-Stop Bracket	Spacers	Bolt Length
60 in. SD	23 in. 26 in.	Y Y	0 3	0 40 mm
62 in. RD	23 in. 26 in.	Y Y	3 5	40 mm 55 mm
72 in. SD	23 in. 26 in.	Y Y	1 3	40 mm 40 mm
60 in. SD GLC	23 in. 26 in.	Y Y	0 3	0 40 mm
72 in. SD GLC	23 in. 26 in.	Y Y	1 3	40 mm 40 mm

Deck	Tire Size	Up-Stop Bracket	Spacers	Bolt Length
72 in. RD	23 in. 26 in.	Y Y	1 2	40 mm 40 mm



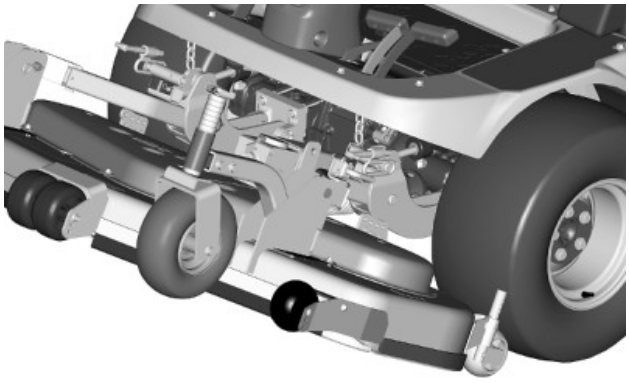
TCT008253—UN—09AUG13

11. Install lift cylinder shaft through the opening in up stop bracket (K).
12. Align legs with holes in lift arms and cylinder (L). Secure with new drilled pins (M) provided in kit and cotter pins (N).



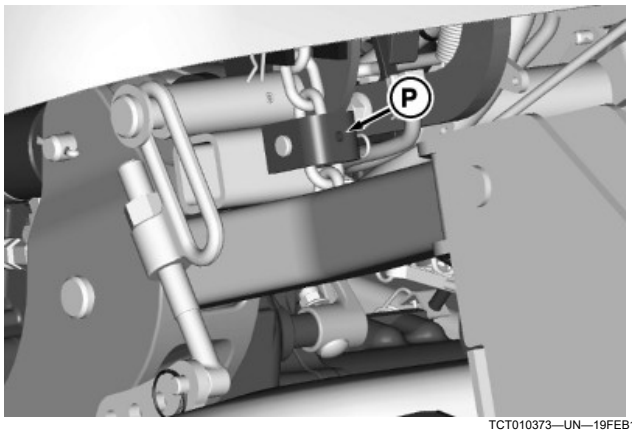
TCT008391—UN—25FEB14

13. Position the mower deck so the front attachment brackets (O) are aligned with the ends of the lift arms.
14. Push attachment lift lever forward into float position.
15. Push down on lift arms until ends drop down into front attachment brackets.
16. Install drilled pins through bracket and lift arm, and secure with spring pins.



TCT008395—UN—26AUG13

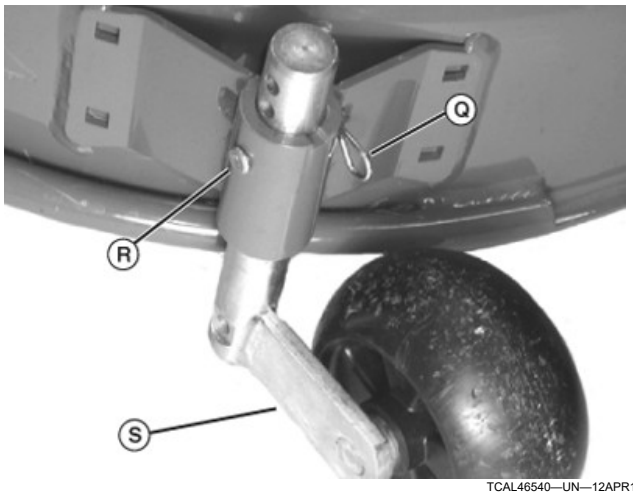
17. Start machine and raise mower deck to top of travel. Stop engine. Mower deck should rotate as shown above.



TCT010373—UN—19FEB14

18. Lock service latches (P) on left and right side mower deck lift arms.

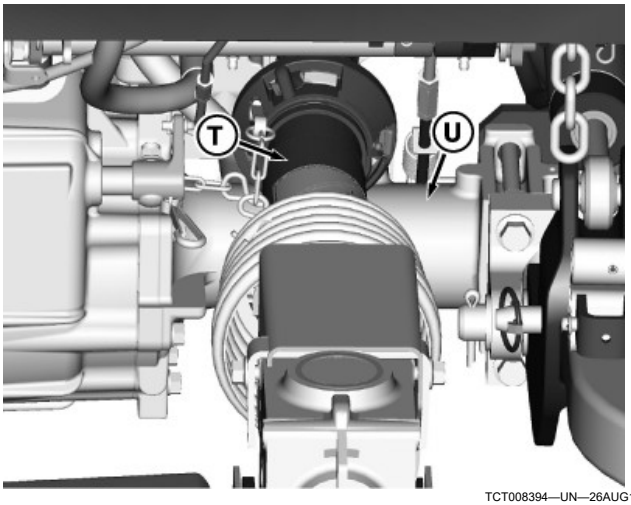
NOTE: Service latch chain has 7 links to accommodate all configurations. Select chain link that provides the tightest fit.



TCAL46540—UN—12APR13

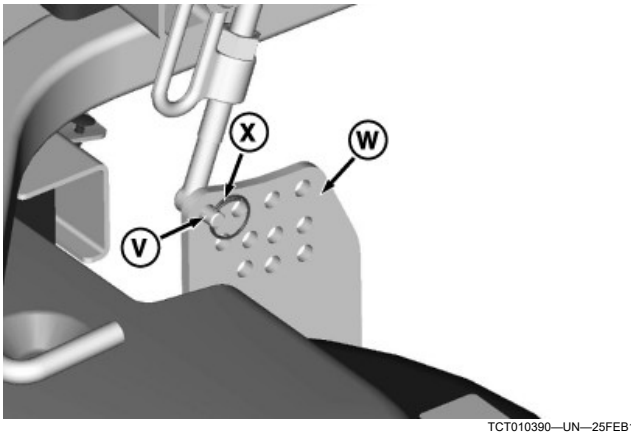
19. **60 and 72-inch Deck Only:** Remove spring pin (Q) and drilled pin (R) from anti-scalp wheel (S). Raise the anti-scalp wheel to its highest position, and install drilled pin and spring pin.

NOTE: 60 in. deck has one corner wheel, 72 in. deck has two corner wheels.



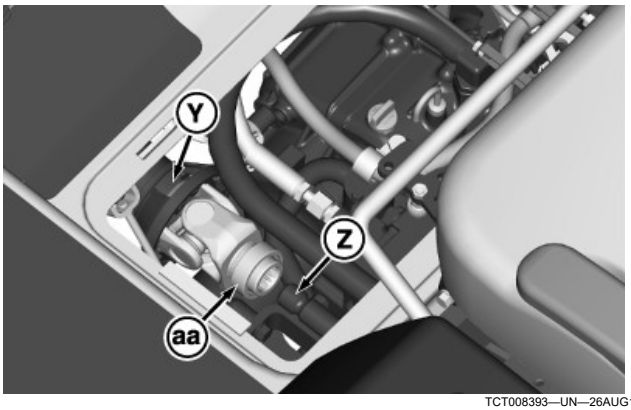
TCT008394—UN—26AUG13

20. Lift mower deck drive shaft (T) up and over the top of the machine's front axle (U). Extend the drive shaft to allow it to sit on top of the axle.



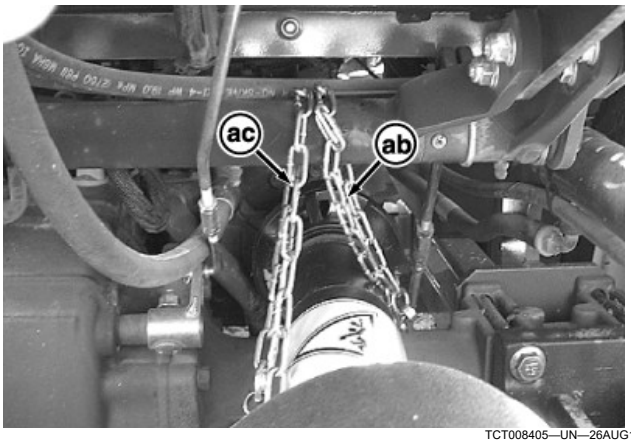
TCT010390—UN—25FEB14

21. Raise the rear of the mower deck and install the hanger pin (V) into the hole in adjustment plate (W) that matches the cutting height selected for the front caster wheels. (See label near right rear height of cut adjustment plate.)
22. Install retainer ring (X) onto hanger pin. Repeat for the other lift arm.



TCT008393—UN—26AUG13

23. Remove the service hatch on the machine, and attach the mower deck drive shaft (Y) onto the machine's PTO output shaft (Z) as follows:
    a. Push the mower deck drive shaft onto the PTO output shaft. (It may be necessary to turn the mower deck drive shaft to align the spines of the two shafts.)
    b. Once the splines align and the drive shafts begin to couple together, pull the coupler ring (aa) forward and continue to push the mower deck drive shaft rearward onto the PTO output shaft until the coupler locks in place.
    c. Release the coupler ring.
    d. Push and pull the coupler until you are sure it is locked on the shaft.



TCT008405—UN—26AUG13

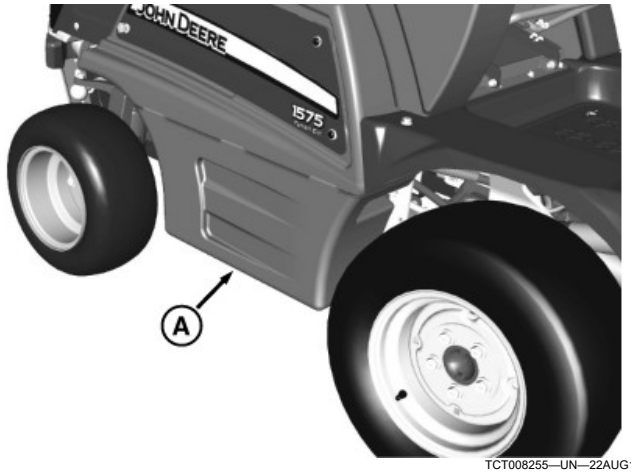
    e. Attach frnt (ab) and rear (ac) drive shaft shield chains around the brake cross shaft. Adjust the chains as required to maintain minimal slack as the mower deck is raised or lowered to its travel limits.
24. Close and latch the service hatch.
25. Set the mower deck cutting height.
26. Adjust the anti-scalp wheel so height of wheel is 6 mm (1/4 in.) above the ground when on a level surface.
27. Unlock the service latches.
28. Lower the mower deck to the ground.

vs70618,1734943867421-19-23DEC24

Installing Debris Enclosure (62 in. and 72 in. RD decks only)

Preparing Machine

1.



TCT008255—UN—22AUG13

A—Battery Cover

Remove battery cover (A).

2. Remove attachment from machine.
3. Block rear wheels.

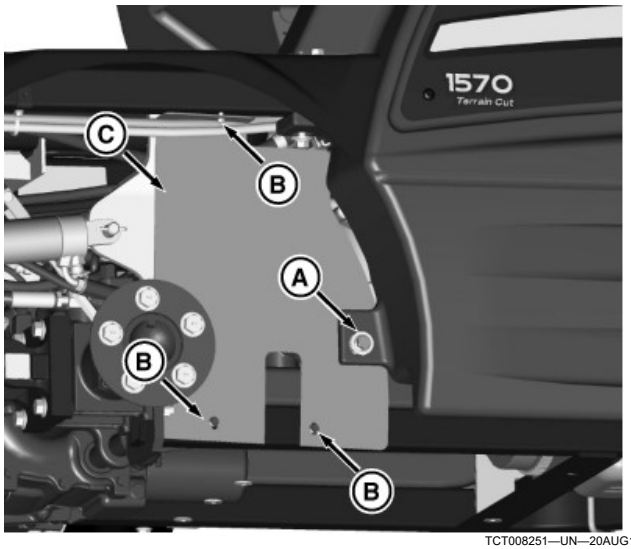
IMPORTANT: Avoid damage! Do not use bottom of transaxle as a lift point for floor jack. Hydraulic oil filter may be damaged. Locate floor jack on frame rail behind front tire.

4. Remove front tires from machine and support machine

Installing Left and Right Side Shields

Left Side Shield

1.



TCT008251—UN—20AUG13

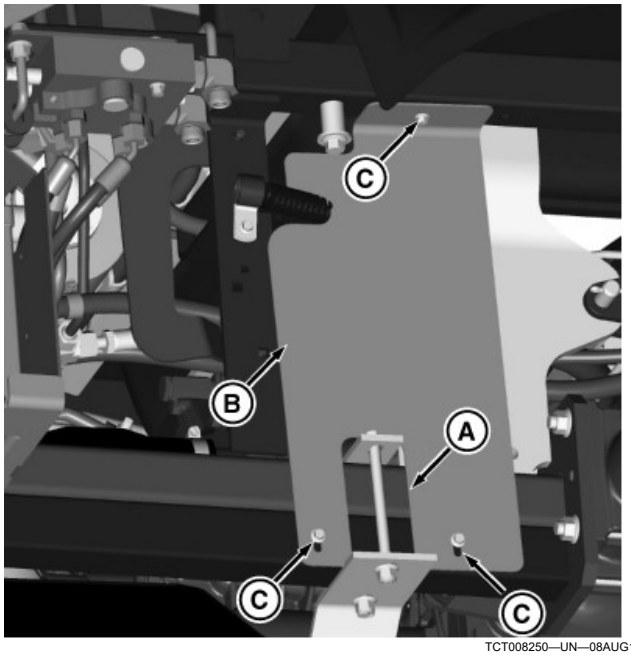
A—Fuel Tank Hardware
B—Self Tapping Cap Screws
C—Left side Shield

Remove fuel tank hardware (A).

2. Install shield (C) and fuel tank hardware (A). (Do not Tighten).
3. Install the three M6 X 16 self-tapping cap screws. Tighten top cap screw first.
4. Tighten fuel tank hardware (A).

Right Side Shield

1.



TCT008250—UN—08AUG13

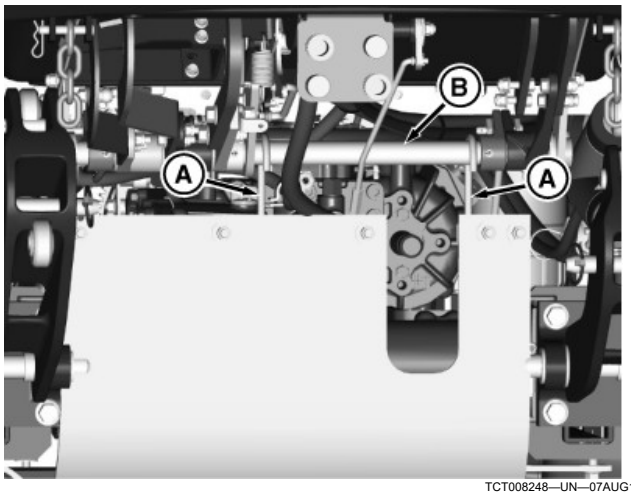
A—Slot in Shield
B—Right Side Shield
C—Self-tapping Cap Screws

Install the shield using three M6 X 16 self-tapping cap screws (C). Tighten top cap screw first.

Installing Transaxle/ Engine and Flywheel Shield

Transaxle and Engine Shield

1.

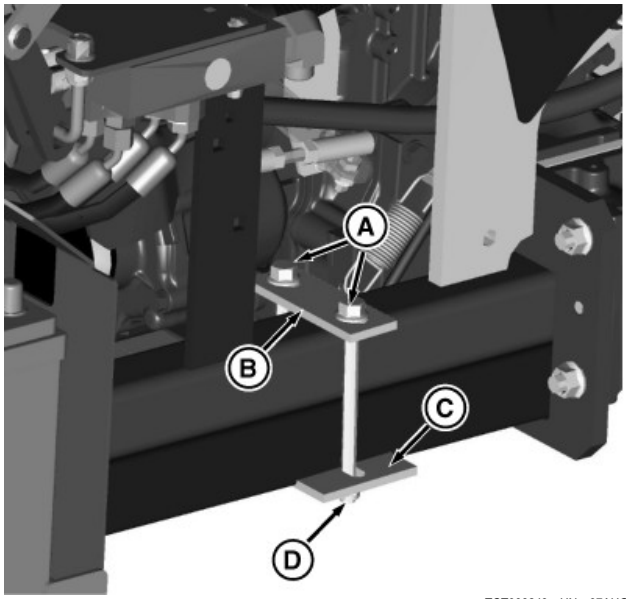


TCT008248—UN—07AUG13

A—Hangers
B—Brake Shaft

Hook the transaxle and engine shield hangers (A) up and over the brake shaft (B), under operator's platform at front of machine.

2.



TCT008249—UN—07AUG13

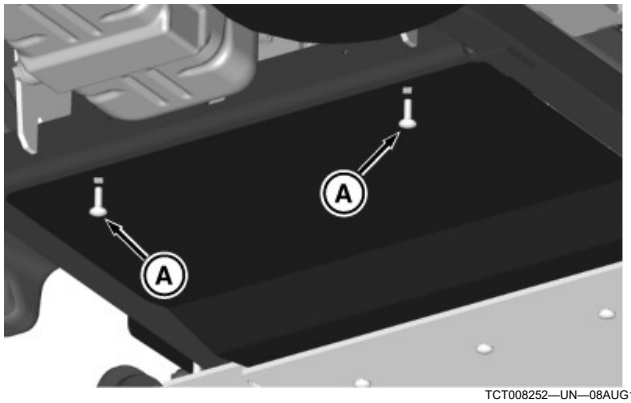
A—Cap Screw, M10 X 130
B—Plate
C—Mounting Plate
D—Locknut, M10

Place plate (B) through slot in the side shield.

3. Install two cap screws (A) through holes in the small plate (B) and holes in mounting plate (C).
4. Install two locknuts and tighten.
5. Repeat procedure for opposite side.

Flywheel Shield

1.



TCT008252—UN—08AUG13

A—Carriage Bolt, M8 X 25

Secure flywheel shield with two carriage bolts (A), M8 washers and M8 locknuts.

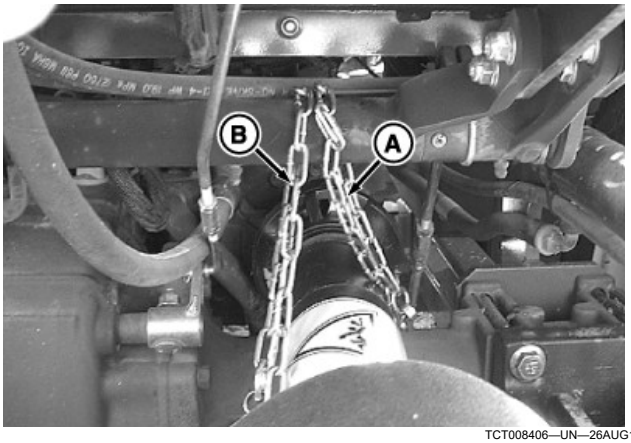
2. Install tires and lower machine from jack stands.
3. Replace battery cover.

h2ac9y3,1656413987887-19-29JUN22

Removing and Storing

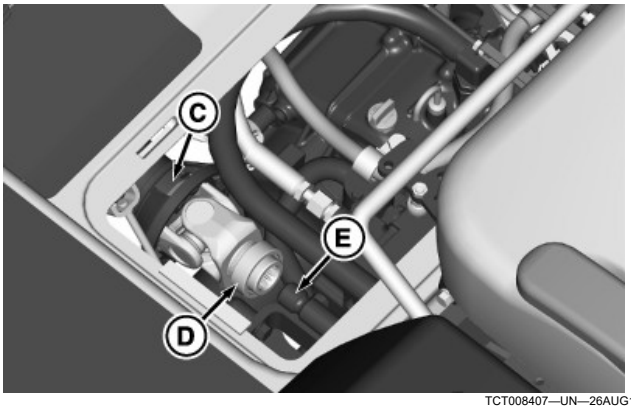
Removing Mower Deck

1. Park machine safely. (See Parking Safely in Safety section.)
2. Raise mower deck and lock service latches.



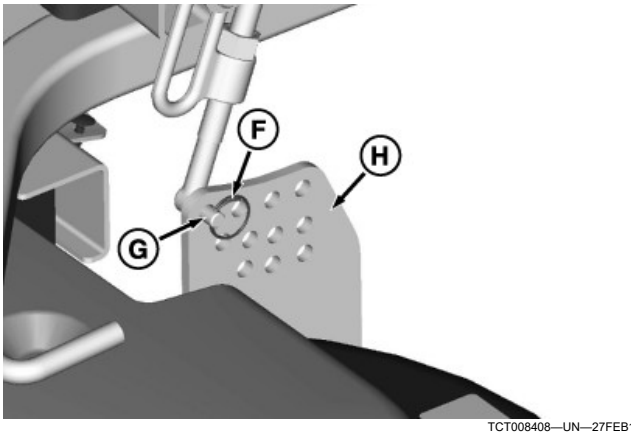
TCT008406—UN—26AUG13

3. Remove the front (A) and rear (B) drive shaft shield chains from the brake cross shaft.



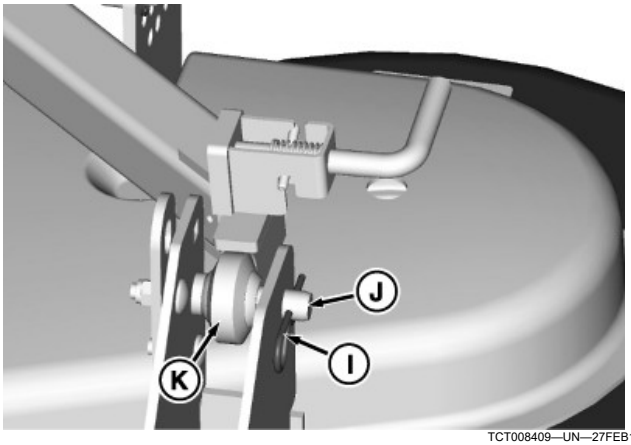
TCT008407—UN—26AUG13

4. Remove the service hatch on the machine, and locate the mower deck drive shaft (C).
5. Pull forward on the coupler ring (D), and pull the drive shaft off the PTO output shaft (E).



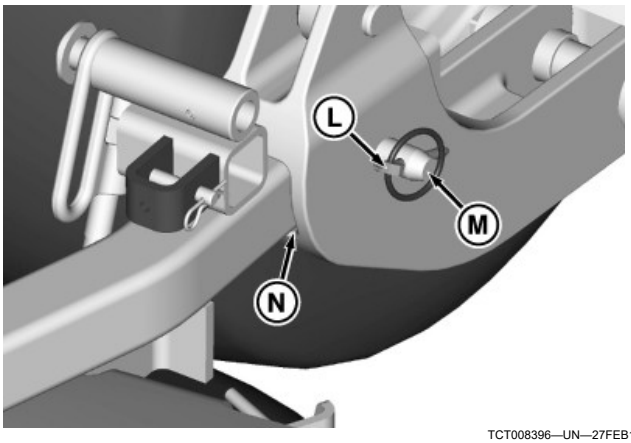
TCT008408—UN—27FEB14

6. Remove the retainer ring (F) from the hanger pin (G), and remove the hanger pin from the adjustment plate (H). Repeat for rear deck hanger on other side of machine.
7. Rotate the mower deck to the service position.
8. Release the service latches.
9. Lower the mower deck to the ground.



TCT008409—UN—27FEB14

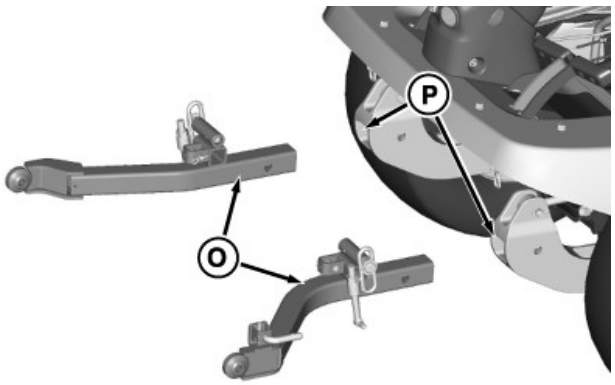
10. Remove spring pin (I) and drilled pin (J) from front of lift arm (K). Remove lift arm from mower deck.



TCT008396—UN—27FEB14

11. Remove the hitch pin (L) from drilled pin (M), and remove drilled pin from the lift arm socket (N). Repeat for other side of machine.

CAUTION: The machine can become unstable when driving on slopes or at high speeds with front attachment raised or removed. Travel at slow speeds and avoid sudden braking with attachment raised or removed.



TCT009571—UN—01DEC13

12. Pull the mower deck lift arms (O) from the machine lift arm sockets (P).
13. Install the drilled pins into the lift arm sockets and secure with hitch pins.
14. Install the retainer rings back into hanger pins.
15. Install lift arms and pins back onto deck.

OUMX068,0000170-19-23APR14

Storing Safety

CAUTION: Fuel vapors are explosive and flammable. Engine exhaust fumes contain carbon monoxide and can cause serious illness or death:

- **Run the engine only long enough to move the machine to or from storage.**
- **Machine fires and structure fires can occur if a machine is stored before allowing it to cool, or if debris is not removed from around the engine and muffler, or if stored near combustible materials.**
- **Do not store vehicle with fuel in the tank inside a building where fumes may reach an open flame or spark.**
- **Allow the engine to cool before storing the machine in any enclosure.**

AP43109,000029D-19-15APR13

Storing Attachment

NOTE: Some of the following steps may not apply to your attachment.

1. Remove any grass clippings from MCS or bagger attachment.
2. Remove attachment from machine.
3. Clean attachment and driveline, if equipped, with water pressure from a hose.
4. Remove any shields if needed to clean out all debris.
5. Repair or replace worn, bent, or damaged parts. Tighten loose hardware.
6. Apply paint to painted surfaces where needed to prevent rust.
7. Apply thin coat of grease to blades or tines to prevent rust.
8. Lubricate any pivot points with engine oil to prevent rust.
9. Lubricate any grease points.

IMPORTANT: Abrasive surfaces can damage attachment. Store attachment on non-abrasive surface or on wooden blocks.

10. If storing attachment outdoors, block up attachment if possible and place a waterproof cover over it.

AP43109,000029E-19-15APR13

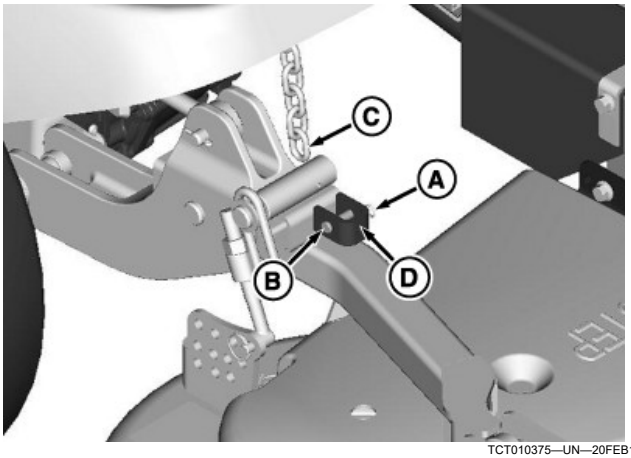
Operating

Using Service Latches

CAUTION: Avoid Injury! Unlatch service chain before moving the machine to avoid possible injury. The machine can become unstable when driving on slopes or at high speeds with front attachment raised or removed. Travel at slow speeds and avoid sudden braking with attachment raised or removed. The PTO continues to run after the attachment is raised. Turn off PTO when not in use.

1. Stop machine on a level surface, not a slope.
2. Turn off PTO switch.
3. Raise mower deck to highest level.
4. Lock the park brake.
5. Stop the engine and remove the key.

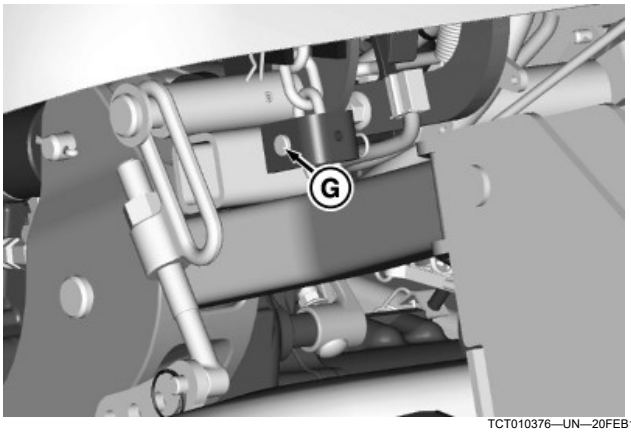
6. Wait for engine and all moving parts to stop before you leave the operator's seat.



TCT010375—UN—20FEB14

7. Remove spring pin (A) and clevis pin (B) from mower deck lift arm.
8. Insert bottom link of service latch chain (C) into welded bracket (D) on mower deck lift arm.

NOTE: Service latch chain has 7 links to accommodate all configurations. Select chain link that provides the tightest fit.



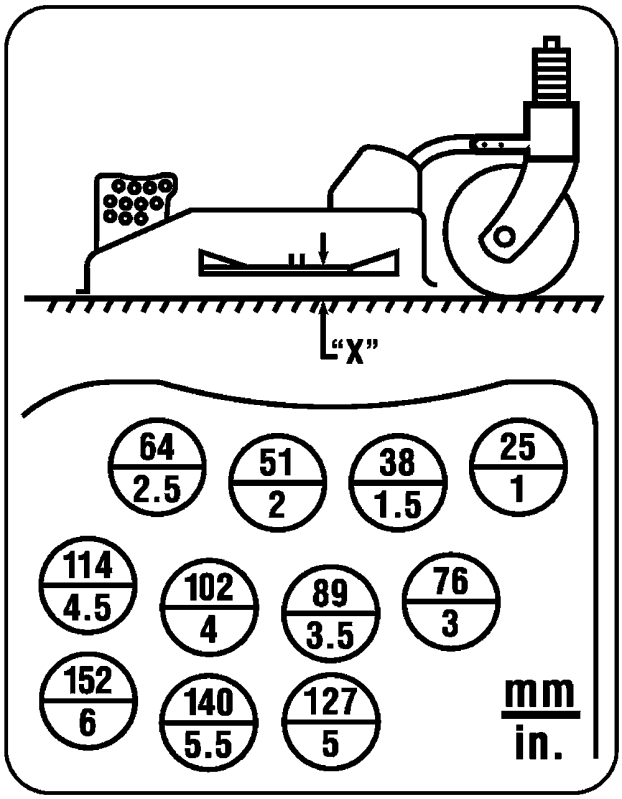
TCT010376—UN—20FEB14

9. Install clevis pin (G) through bracket and chain, and secure with spring pin.

OUMX068,00003B5-19-20FEB14

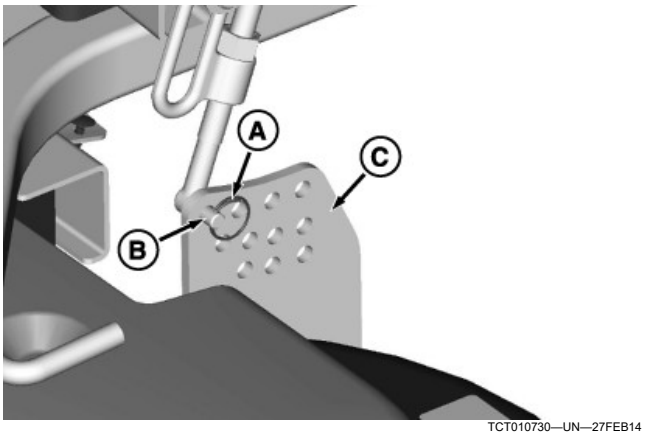
Adjusting Mower Deck Cutting Height

1. Raise mower deck.
2. Park the machine safely. (See Parking Safely in the Safety section.)
3. Lock the service latch on both of the lift arms.



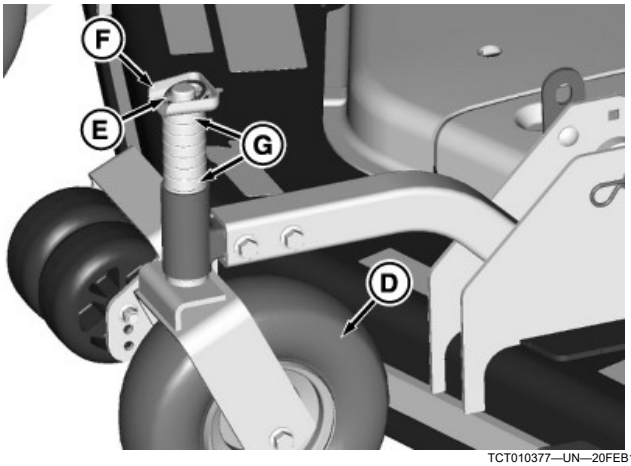
TCT008729—UN—25SEP13

4. Choose the desired cutting height from those shown on the decal at the front and rear of the mower deck.



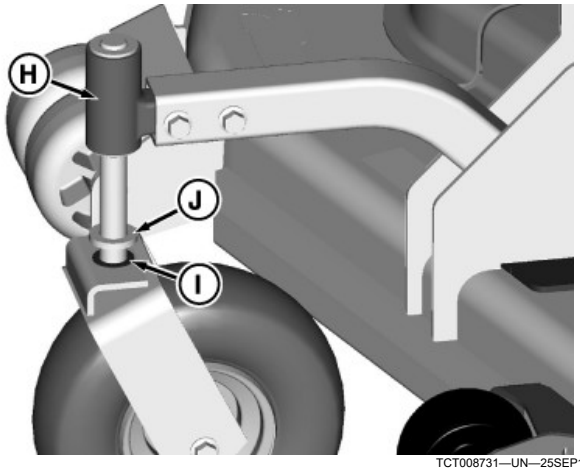
TCT010730—UN—27FEB14

5. Remove the retainer ring (A) from the hanger pin (B) on the rear hanger plate (C) on left and right side of mower deck.
6. Move each hanger pin to the correct hole for the cutting height chosen from the decal. Secure both hanger pins with retainer rings.



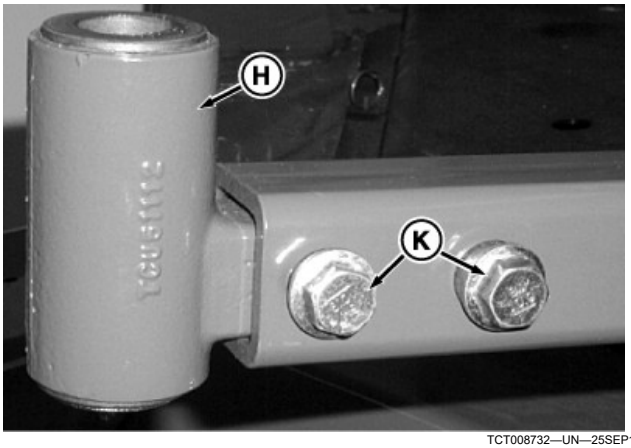
TCT010377—UN—20FEB14

7. Support the caster wheel (D) with one hand while removing the quick-lock pin (E) and spacer guard (F).
8. Remove the spacers (G) from the top of the caster wheel pivot shaft.



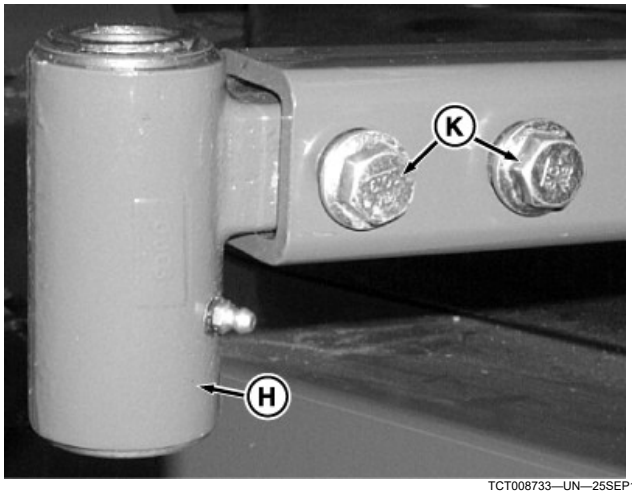
TCT008731—UN—25SEP13

9. Lower the caster wheel out of the caster wheel bracket (H), making sure the flat washer (I) and 1/4 in. spacer (J) stays with caster wheel pivot shaft.
10. Position caster wheel bracket (H):



TCT008732—UN—25SEP13

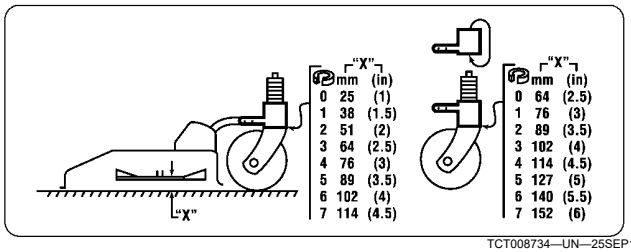
- If normal cutting height range will be from 25—114 mm (1—4.5 in.), position caster wheel bracket (H) in up position.



TCT008733—UN—25SEP13

- If normal cutting height will be from 64—152 mm (2-1/2—6 in.), position caster wheel bracket (H) in down position.

11. Move caster wheel bracket to correction position:
    - Remove two mounting cap screws (K), spacers, and nuts.
    - Rotate bracket 180°.
12. Install cap screws (K) but do not tighten completely until caster wheel is assembled and weight of mower deck is back on caster wheel.
13. Install caster wheel back into caster wheel bracket, making sure flat washer (I) remains in place.



TCT008734—UN—25SEP13

Decal of caster wheel bracket in low and high range position.

14. Use the decal on the mower deck to determine the number of spacers needed to set cutting height (X).
15. Place the remaining spacers on the caster pivot shaft above the wheel bracket.
16. Install the spacer guard on top of the spacers and lock in place with the quick-lock pin.
17. Unlock the service latches and lower mower deck to the ground.
18. Tighten bolts on caster wheel bracket to specification.

Specification

Caster Wheel Bracket Bolts—Torque. . . . . 81 N·m (60 lb.-ft.)

OUMX068,0000608-19-27FEB14

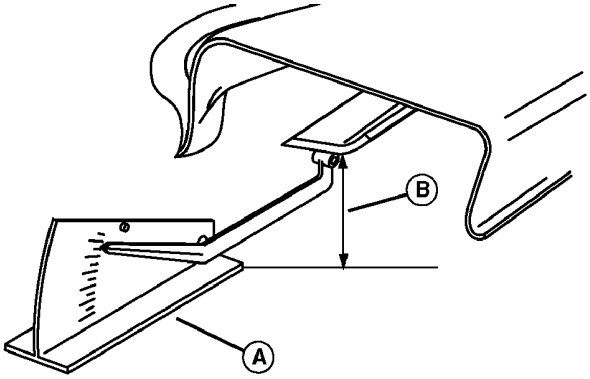
Checking Mower Deck Level

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Lower the mower deck to the ground.
3. Check tire pressures on all machine tires.
    - Inflate all tires to correct pressure. (See machine Service Intervals label for pressures.)
4. Set the mower decks at the desired cutting height.

5. Check that the front mower deck caster wheels and rear hangers are all set to the same height.

CAUTION: Blades are sharp. Always wear gloves when handling blades or working near blades.

6. Turn the blades until parallel to the front axle.



TCAL46563—UN—12APR13

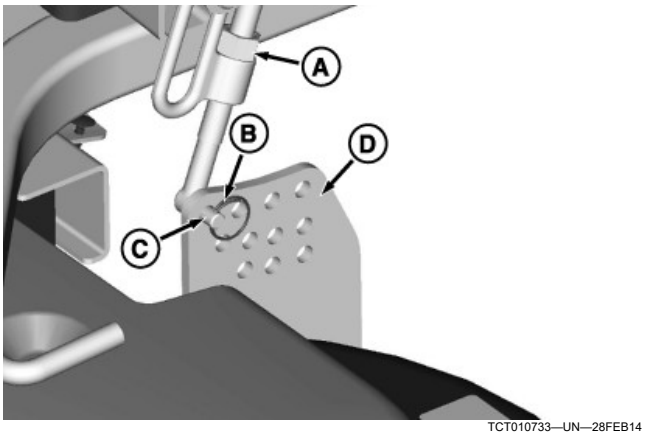
A convenient leveling gauge (A), AM130907, is available from your John Deere dealer.

7. Measure distance from tip of outside blade (B), to the ground. Repeat for outer blade on other side of deck.
8. Turn outer mower blades to face front-to-rear.
9. Measure height of front and rear of blades to ground. Repeat for outer blade on other side of deck.
   - The blade cutting heights should be level side-to-side.
   - The blade height must be 3—6 mm (1/8—1/4 in.) higher in the rear.
   - The blade tip height must match the cutting height setting.
10. Adjust the anti-scalp wheel so height of wheel is 6 mm (1/4 in.) above the ground when on a level surface.

OUMX068,0000218-19-20FEB14

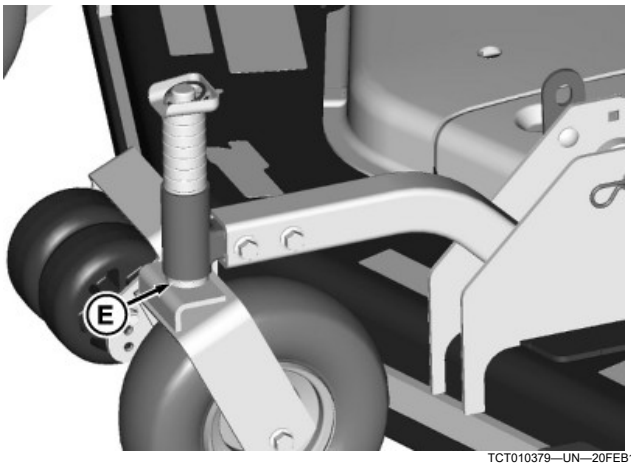
Adjusting Mower Deck Level

1. Verify vehicle tire pressure is correct. (See Specifications Section for correct tire pressures.)
2. Verify deck HOC settings (front and rear adjustment points) are all at the same position.
3. Check mower deck level; front-to-rear and side-to-side. (See Checking Mower Deck Level in this section.)



TCT010733—UN—28FEB14

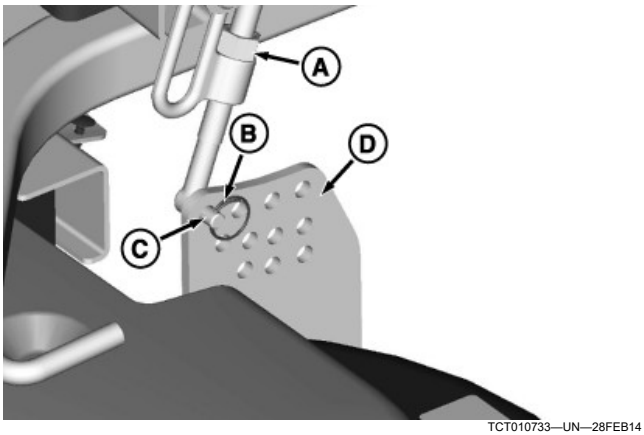
4. If rake (front-to-rear leveling) is not correct adjust the rear hanger:
   a. Raise the mower deck and lock the lift arm service latches.
   b. Loosen the locknut (A) on the rear hanger.
   c. Remove the retainer ring (B) on the hanger pin (C).
   d. Remove the hanger pin (C) from the adjustment plate (D). Make note of what hole it was removed from.
   e. Turn the hanger pin to adjust the rear hanger:
      - Adjust the rear hanger up to increase rake.
      - Adjust the rear hanger down to decrease the rake.
   f. Insert the hanger pin back into previous hole position from above in adjustment plate (D) and secure with retainer ring.
   g. Repeat the adjustment procedure for the hanger on the other side of the mower.
   h. Lower mower deck and check front-to-rear level. Rotate the blade so it is facing front-to-back on the deck.
      - The blade height must match the cutting height setting for the front tip of the blade.
      - The blade height must be 3—6 mm (1/8—1/4 in.) higher at the rear blade tip.
   i. Repeat steps A through H as necessary.



TCT010379—UN—20FEB14

NOTE: There is a 6 mm (1/4 in.) spacer washer (E) on the bottom of the caster wheel spacer assembly. It can be necessary to move the 6 mm (1/4 in.) spacer above the caster wheel bracket to help with this adjustment.

   j. Tighten the locknut (A) on both sides of the mower.
5. After setting the rake, check the side-to-side level.



TCT010733—UN—28FEB14

6. If side-to-side blade tip height is not within 3 mm (1/8 in.), an adjustment is needed:
   a. Raise the mower deck and lock the lift arm service latches.

b. Loosen the locknut (A) on the rear hanger.

c. Remove the retainer ring (B) on the hanger pin (C).

d. Remove the hanger pin (C) from the adjustment plate (D). Make note of what hole it was removed from.

e. Turn the hanger pin to adjust the rear hanger:

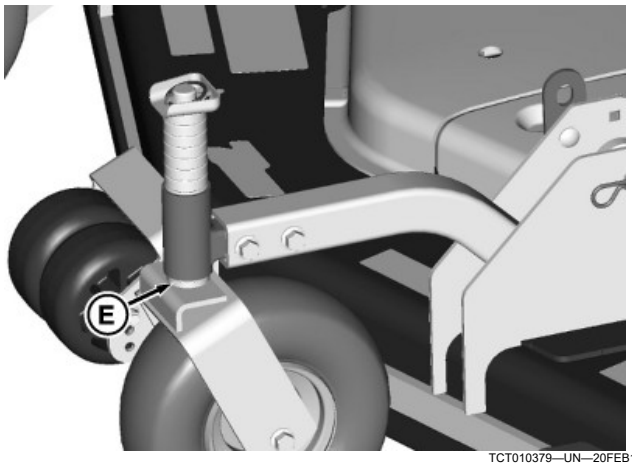
- Adjust the rear hanger up to raise that side of the deck. (Note: This also increases rake.)
- Adjust the rear hanger down to lower that side of the deck. (Note: This also decreases the rake.)

f. Insert the hanger pin back into previous hole position from above in adjustment plate (D) and secure with retainer ring.

g. Adjustment for the hanger on the other side of the mower may also be needed.

h. Lower mower deck and check side-to-side level.

i. Repeat steps A through H as necessary.



TCT010379—UN—20FEB14

NOTE: There is a 6 mm (1/4 in.) spacer washer (E) on the bottom of the caster wheel spacer assembly. It can be necessary to move the 6 mm (1/4 in.) spacer above the caster wheel bracket to help with this adjustment.

j. Tighten the locknut (A) on both sides of the mower.

7. Check mower deck level. (See Checking Mower Deck Level in this section) and repeat if needed.

OUMX068,0000622-19-28FEB14

Engaging Mower

CAUTION: Stay clear of rotating drivelines:

• Entanglement in rotating driveline can cause serious injury or death.

• Keep hands, feet and clothing away.

• Make sure that all shields are installed and used properly.

• Stop the engine and be sure PTO driveline is stopped before getting near it.

NOTE: Operate engine at full throttle while mowing.

1. Start engine and warm up.
2. Unlock park brake.
3. Lower mower deck to ground.
4. Move throttle forward to full throttle position.
5. Move PTO switch to ON position to start mower blades.
6. To disengage mower blades:

- Move PTO switch to the off position to stop mower blades.
- Press the master brake pedal. To restart the mower blades, release the master brake, turn off the PTO switch, then turn on the PTO switch. Blades will start.

OUMX068,000060A-19-20FEB14

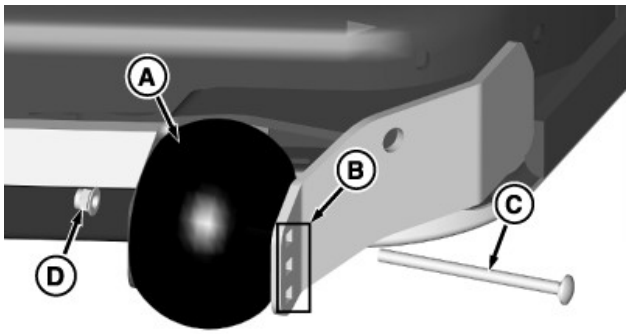
Adjusting Mower Deck Front Anti-Scalp Wheels

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

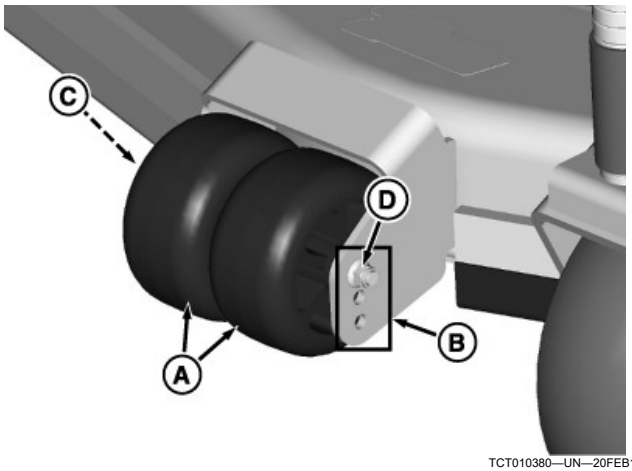
NOTE: The flattest cut can be achieved by having all anti-scalp wheels adjusted off the ground. Check anti-scalp wheel adjustments each time the mower deck cutting height is changed.

It is recommended that all anti-scalp wheels be kept off the ground to minimize scuffing.

1. Check machine tire pressure. Inflate tires to the correct pressure. (See Specifications Section for correct tire pressures.)
2. Adjust mower deck to desired cutting height.



TCT008737—UN—26SEP13



TCT010380—UN—20FEB14

3. Adjust anti-scalp wheels (A) to one of three positions (B).
   - Remove bolt (C) and nut (D).
   - Adjust wheel up or down so it is approximately 6—13 mm (1/4—1/2 in.) above mowing surface.
4. Install wheel with attaching hardware.
5. Adjust all wheels to the same height.

OUMX068,000029C-19-20FEB14

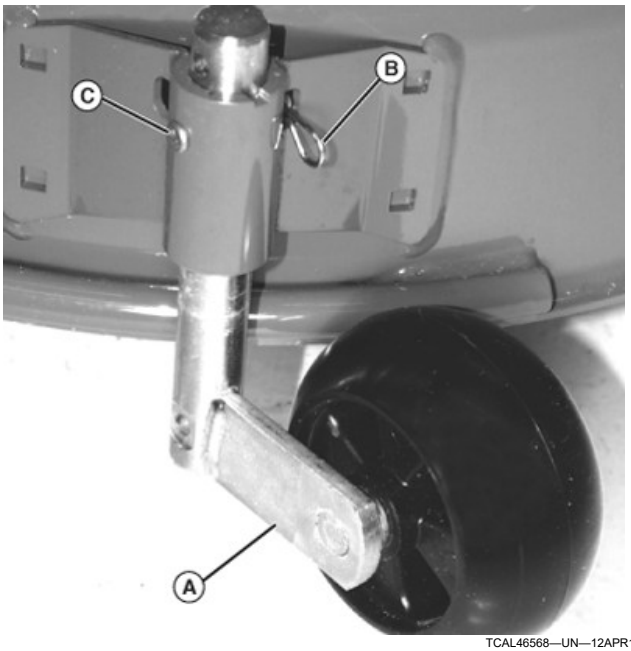
Adjusting Mower Deck Rear Anti-Scalp Wheels

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

NOTE: The flattest cut can be achieved by having all anti-scalp wheels adjusted off the ground. Check anti-scalp wheel adjustments each time the mower deck cutting height is changed.

It is recommended that all anti-scalp wheels be kept off the ground to minimize scuffing.

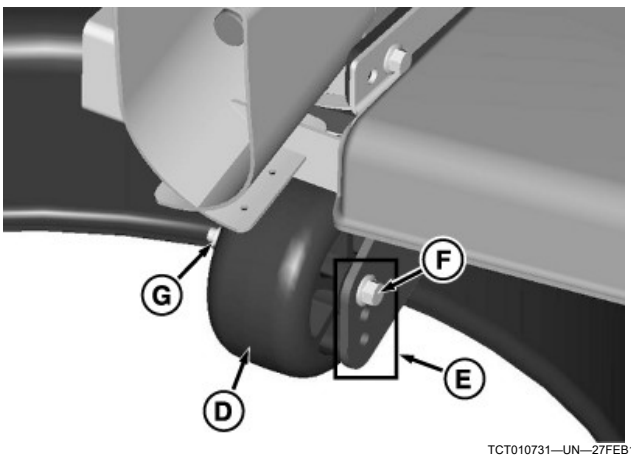
1. Check machine tire pressure. Inflate tires to the correct pressure. (See Specifications Section for correct tire pressures.)
2. Adjust mower deck to desired cutting height.



TCAL46568—UN—12APR13

3. Adjust corner anti-scalp wheel (A).
   - Remove spring pin (B) and drilled pin (C).
   - Adjust wheel up or down so it is approximately 6–13 mm (1/4–1/2 in.) above mowing surface.

NOTE: 60 in. deck has one corner wheel, 72 in. deck has two corner wheels.



TCT010731—UN—27FEB14

4. Adjust center anti-scalp wheel (D) to one of three positions (E).
   - Remove bolt (F) and nut (G).
   - Adjust wheel up or down so it is approximately 6—13 mm (1/4—1/2 in.) above mowing surface.
5. Install wheel with attaching hardware.
6. Adjust all wheels to the same height.

OUMX068,0000621-19-27FEB14

Service Intervals

Servicing Your Machine

IMPORTANT: Avoid damage! High-pressure washer can cause damage to machine components.

Operating in extreme conditions may require more frequent service intervals:

• Engine components may become dirty or plugged when operating in extreme heat, dust or other severe conditions.

• Engine oil can degrade if machine is operated constantly at slow or low engine speeds or for frequent short periods of time.

Please use the following timetables to perform routine maintenance on your machine.

OUMX068,00003B8-19-26OCT13

Initial Break-In

- Grease caster wheel pivots.
- Grease caster wheel axles.
- Grease mower deck blade spindles.
- Grease PTO shaft (5 locations).
- Check mower deck level.

OUMX068,0000615-19-27FEB14

Before Each Use

- Remove belt shields, clean and inspect drive belts.
- Check for loose, missing, or damaged parts.
- Adjust cutting height and gauge wheel, if necessary.
- Check mower deck blades.

OUMX068,0000610-19-24FEB14

After Each Use

- Clean debris from mower system.
- Clean grass buildup from around machine enclosure shields (157.5 cm (62 in.) 183 cm (72 in.) RD decks).
- Lubricate deck after washing.
  - Grease caster wheel pivots.
  - Grease caster wheel axles.
  - Grease anti-scalp wheel (152 cm (60 in.) and 183 cm (72 in.) SD decks).

h2ac9y3,1655733454320-19-20JUN22

After First 10 Hours

- Adjust mower deck belt for tension.

OUMX068,0000611-19-24FEB14

Every 25 Hours

- Grease PTO shaft (5 locations).

OUMX068,0000616-19-24FEB14

Every 50 Hours

- Inspect caster wheel tires.
- Grease mower deck spindles.

OUMX068,0000612-19-24FEB14

Every 100 Hours

- Adjust mower deck belt for tension.
- Check mower deck gearbox oil level.

OUMX068,00003B7-19-24FEB14

Every 250 Hours

- Inspect caster wheel support arm bushings and replace if worn.

OUMX068,0000613-19-24FEB14

Every 500 Hours

- Change gearbox oil.

OUMX068,0000614-19-24FEB14

Service Lubrication

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 HD Lithium Complex Grease
- Grease-Gard™ Premium Plus

NOTE: Not all grease types are compatible; John Deere does not recommend mixing greases. If using any product other than the recommended grease in service, purge any remaining grease from the system before application. If not practical, grease twice as often until all old grease is purged from the system.

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

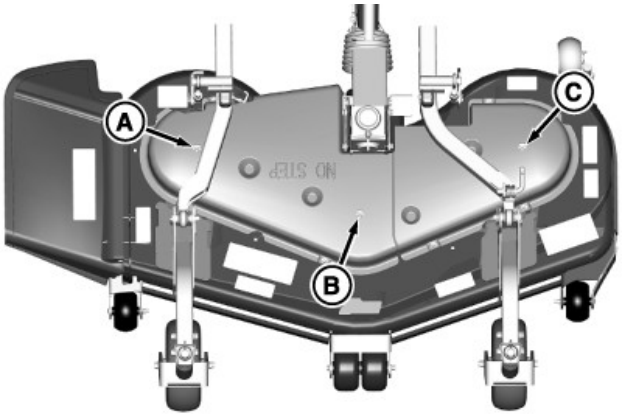
Wet or high speed conditions may require use of a special-use grease. Contact your Servicing dealer for information.

NOTE: Some types of grease thickeners are not compatible with others. Consult your grease supplier before mixing different types of grease.

h2ac9y3,1655816592108-19-20JUL22

Lubricating Mower Blade Spindles

1. Lower mower deck completely to the ground.
2. Park machine safely. (See Parking Safely in the Safety Section.)

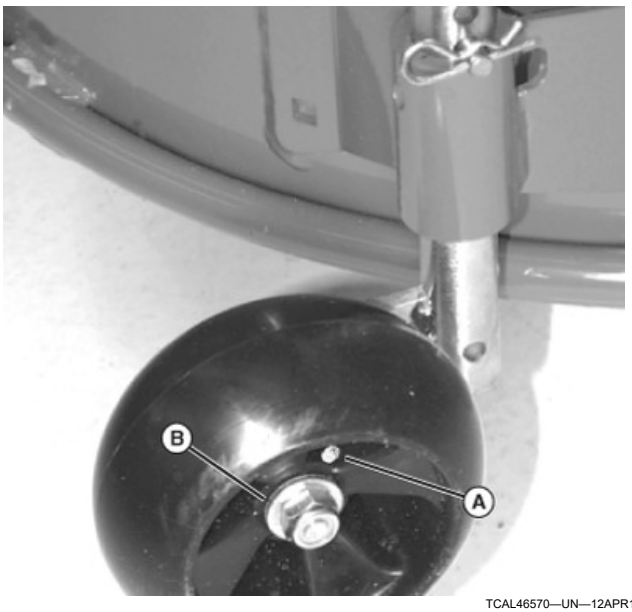


TCT008738—UN—26SEP13

3. Lubricate the three mower deck spindles through the holes in the belt shield (A, B, and C) using recommended grease.
4. Pump grease gun 6—10 times for each spindle. A small “pop” may be heard as air is forced past the seal. Over-greasing will not cause damage. However, over-greasing is not recommended because grease will be thrown by the blades.

OUMX068,00002A0-19-26SEP13

Lubricating Anti-Scalp Wheel (60 and 72 Inch SD Only)



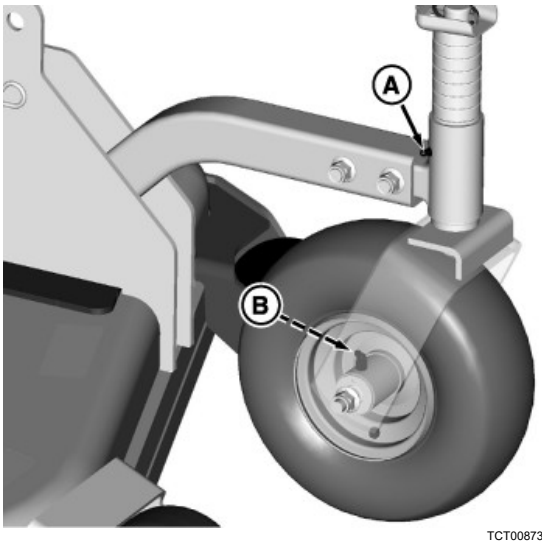
TCAL46570—UN—12APR13

1. Grease the anti-scalp wheel at grease fitting (A) by pumping grease gun until grease can be seen seeping out at axle (B).
2. Clean excess grease off of anti-scalp wheel.

OUMX068,00002A1-19-20JUN22

Lubricating Caster Wheel Axles and Pivots

1. Park machine safely. (See Parking Safely in the SAFETY Section.)
2. Lower mower deck completely to ground.



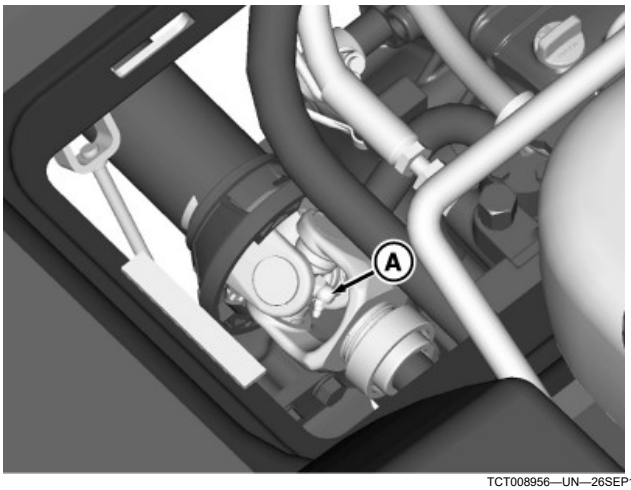
TCT008739—UN—26SEP13

3. Lubricate mower deck caster wheel pivots (A) using recommended grease.
4. Lubricate caster wheel axle (B) using recommended grease.

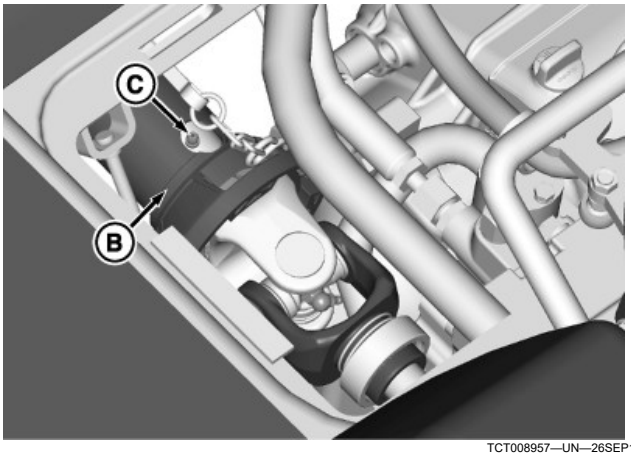
OUMX068,0000623-19-28FEB14

Lubricating PTO Driveshaft

1. Park machine safely. (See Parking Safely in the Safety Section.)

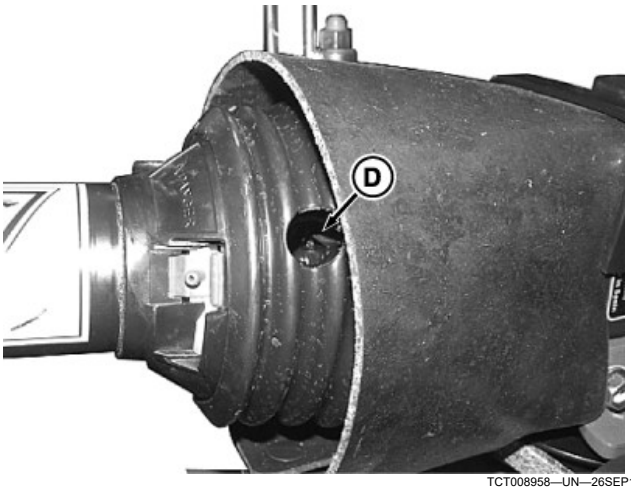


TCT008956—UN—26SEP13



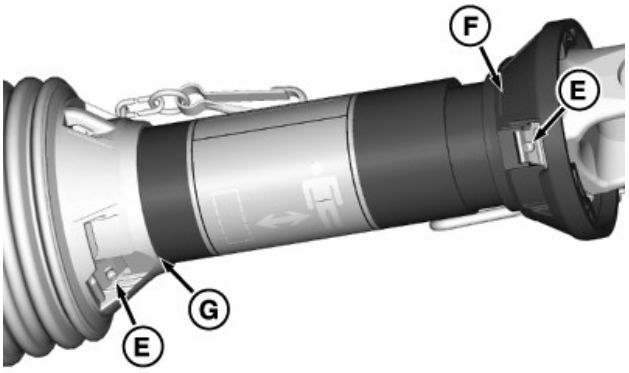
TCT008957—UN—26SEP13

2. Open the service hatch on the machine.
3. Rotate the PTO drive shaft by hand until the grease fitting (A) is facing up.
4. Rotate the PTO drive shaft and shaft guard (B) until grease fitting (C) is facing up and visible through hole in guard.
5. Place the grease gun on the grease fitting and pump gun until grease can be seen seeping from the inside of all four bearing caps on the inside of universal joint.



TCT008958—UN—26SEP13

6. Rotate the PTO drive shaft by hand until the grease fitting inside the universal joint is visible through the hole (D) in the shield.
7. Pump grease into the fitting until grease can be seen seeping from the bearing caps on the inside of universal joint.



TCT010732—UN—27FEB14

8. Pump grease into the grease fittings (E) located on the inner (F) and outer (G) shaft guards..
9. Close and lock machine service hatch.

OUMX068,00002A3-19-28FEB14

Service Mower

Cleaning Mower Deck

IMPORTANT: Avoid damage! High-pressure washer can cause damage to machine components.

Clean under deck shields and in the engine compartment before each use to help prevent heavy grass and thatch build-up on the machine.

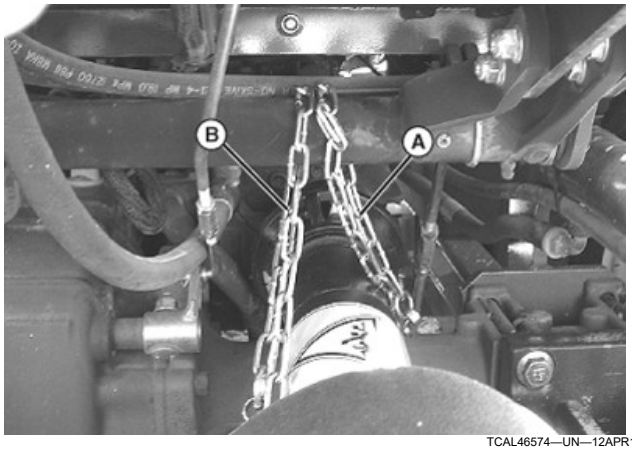
1. Remove belt shield from mower deck and clean any grass or debris from around belts and sheaves.
2. On machines with the 62 inch rear discharge deck, raise seat platform and open the engine cover and remove and grass and debris from the engine compartment.

OUMX068,00003B9-19-26OCT13

Rotating Mower Deck

Rotating Mower Deck for Service

1. Raise the mower deck completely.
2. Park the machine safely. (See Parking Safely in the Safety section.)

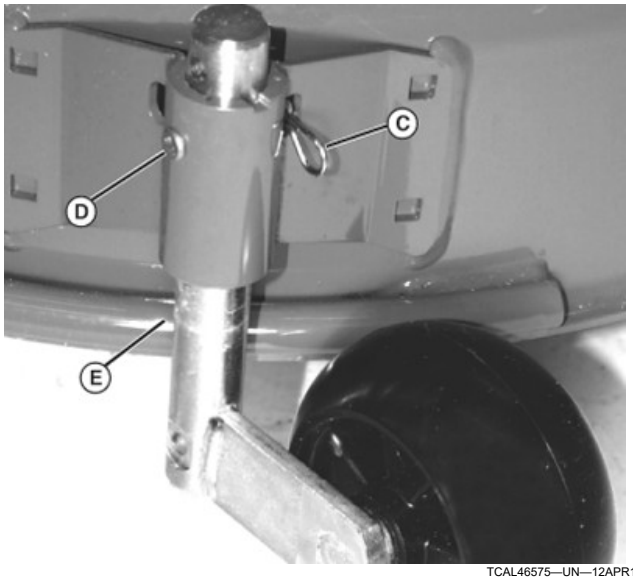


TCAL46574—UN—12APR13

3. Remove the front (A) and rear (B) drive shaft shield chains from the brake cross shaft.

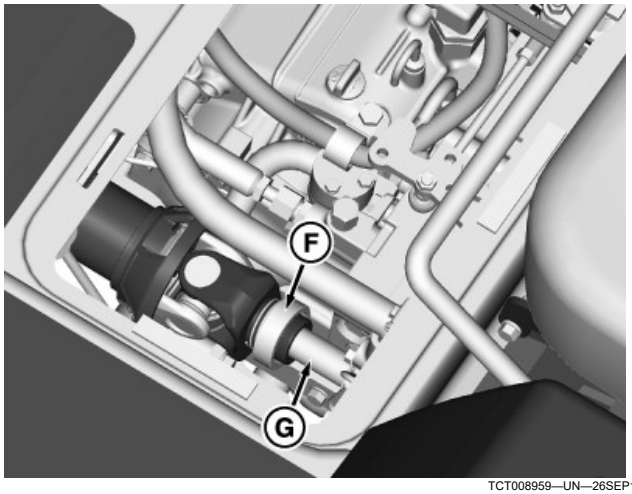
CAUTION: Engage service latches. If hydraulic pressure is lost, the mower deck can drop.

4. Engage the service latches.



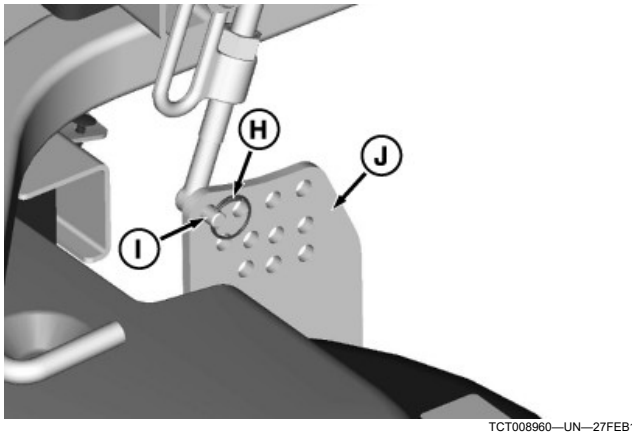
TCAL46575—UN—12APR13

5. **60 and 72 in. Mower Decks Only:** Remove the spring pin (C) from the drilled pin (D) holding the anti-scalp wheel bracket (E) onto the left side of mower deck.
6. Remove the anti-scalp wheel from mower deck.



TCT008959—UN—26SEP13

7. Open service hatch on machine.
8. Pull forward on the coupler ring (F) located on the mower deck PTO drive shaft. Pull off the drive shaft of machine PTO output shaft (G).

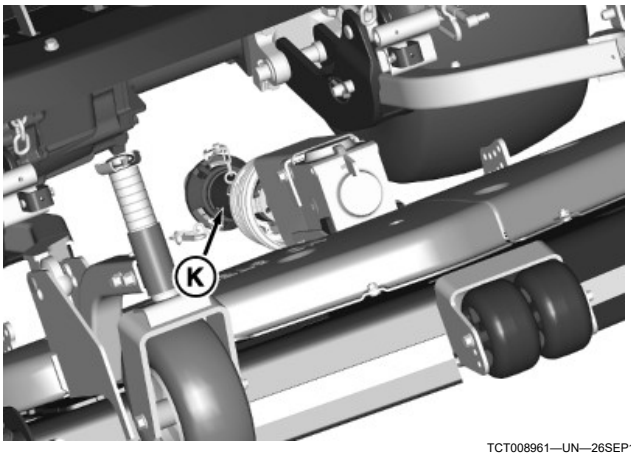


TCT008960—UN—27FEB14

9. Remove the retaining ring (H) from the hanger pin (I).

NOTE: To return the mower deck to its original cutting height, note the hole location that the hanger pin was installed in before removing the hanger pin.

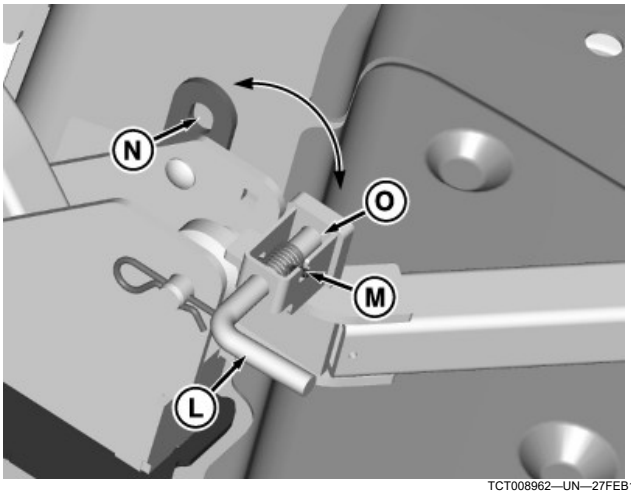
10. Remove hanger pin from hole in adjustment plate (J).
11. Repeat for the other side of mower deck.



TCT008961—UN—26SEP13

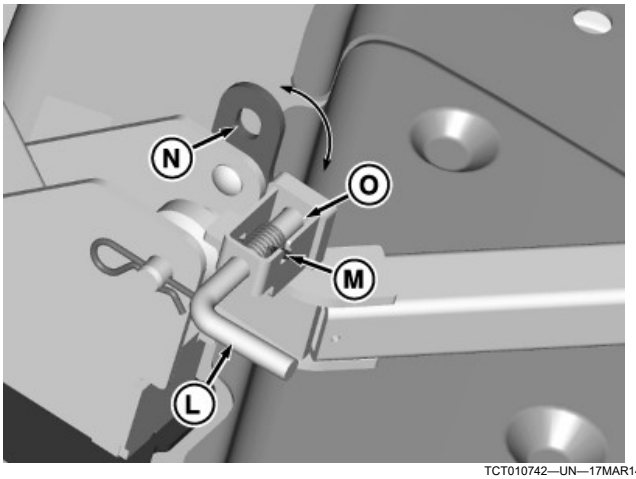
12. Lower rear of mower deck down to the ground. PTO drive shaft (K) falls clear of front axle.

NOTE: Position the rotate-for-service bracket (N) to the rear location to accommodate the use of upstops or smaller vehicle tires. Have this adjustment made during dealer setup when the mower deck is installed onto the vehicle.



TCT008962—UN—27FEB14

Picture Note: Rotate-for-service bracket in forward position.



TCT010742—UN—17MAR14

Picture Note: Rotate-for-service bracket in rear position.

13. Pull mower deck service lock handle (L) out and rotate back until the spring is compressed and pin (M) is locked into slot.
14. Rotate the mower deck back until the hole in the deck bracket (N) is aligned with the service lock hole (O).
15. Rotate the service lock handle (L) forward to extend the pin into deck bracket hole (N).

Rotating Mower Deck for Operation

1. Pull mower deck service lock out of deck bracket.
2. Rotate deck forward, keeping mower deck drive shaft from digging into ground.
3. Route mower deck drive shaft up on top of machine front axle, and connect to machine PTO output shaft on transaxle.
4. Attach the front and rear drive shaft shield chains to the brake cross shaft. Adjust the chains as required to maintain minimal slack as the mower deck is raised or lowered to its travel limits.
5. Rotate mower deck to level position.
6. Install rear hanger pins into holes in rear adjustment plates that correspond to desired cutting height.
7. Install retaining rings on left and right side hanger pins.
8. Install anti-scalp wheel onto mower deck.
9. Unlock service latches.
10. Lower mower deck to ground.
11. Adjust anti-scalp wheel to 6 mm (1/4 in.) above level ground.

OUMX068,00002A4-19-17MAR14

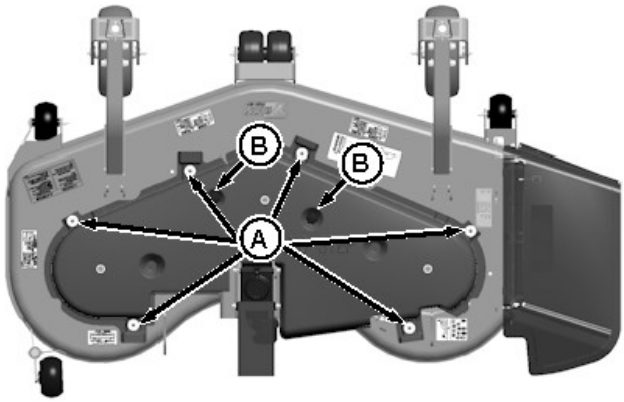
Removing and Installing Belt Shields

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

NOTE: The procedure for removing and installing the belt shields is the same across all deck sizes.

Removing

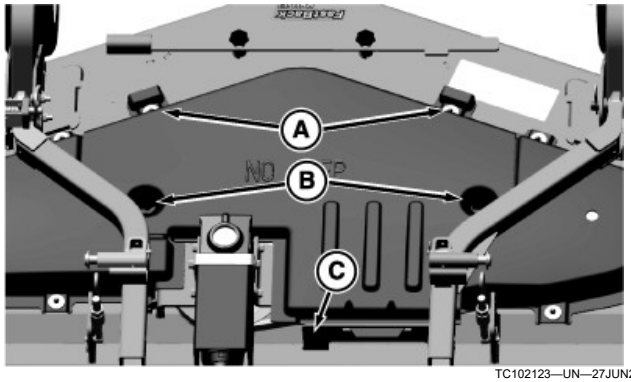
1. Rotate mower deck for service, or remove mower deck from machine.



TCT011350—UN—05OCT15

Picture Note: 60 in. side discharge mower deck shown.

2. Unhook six retaining snaps (A) and remove two knobs (B) securing belt shields to mower deck.



TC102123—UN—27JUN22

Picture Note: 72 in. Rear discharge mower deck shown

3. (For 72 in. RD only) On the center piece of 3-piece belt shield unhook two retaining snaps(A) and remove two knobs(B) securing belt shield to the mower deck. Slide the tab out of slot(C).
4. Lift belt shields off the attaching studs.

Installing

1. (For 72 in. RD only) Slide tap into the slot (C).
2. Install belt shields and hook six retaining snaps (two for 72 in. RD) (A).
3. Install two knobs (B).

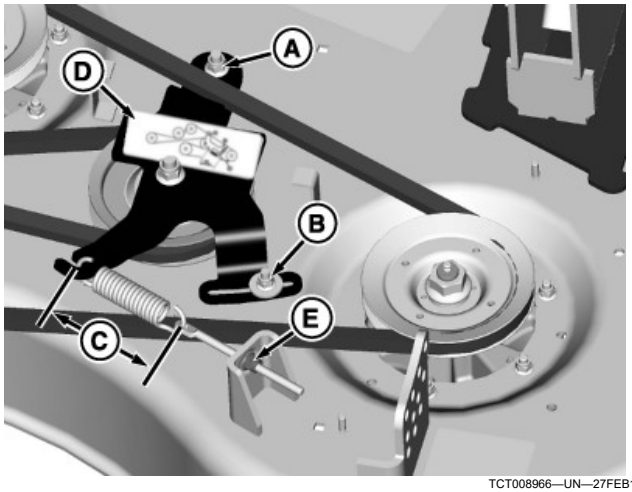
CAUTION: Avoid injury! Fingers and loose clothing can get caught in rotating parts. Do not operate machine without all shields installed.

4. Replace or rotate mower deck for operation.

h2ac9y3,1656327873040-19-29JUN22

Adjusting Drive Belt Tension

1. Remove the mower deck belt shield.
2. Lower the mower deck to the ground.
3. Park machine safely. (See Parking Safely in the Safety section.)



TCT008966—UN—27FEB14

60 in. side discharge deck shown, other decks similar.

4. Loosen nuts (A) and (B).
5. Measure length (C) of belt tension spring from hook to hook.
   - Adjust length according to label (D) on idler arm.
6. Adjust nut (E) until length of belt tension spring is correct.
7. Tighten nuts (A) and (B).
8. Install belt shield.

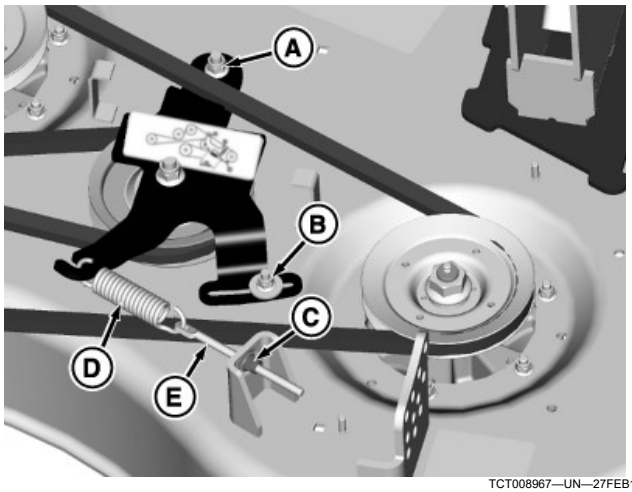
OUMX068,00002A6-19-06OCT13

Removing and Installing Drive Belt and Gearbox (All Except GLC Decks)

NOTE: Except where otherwise indicated, the procedure for removing and installing the drive belt and gearbox is similar across all deck sizes.

Removing

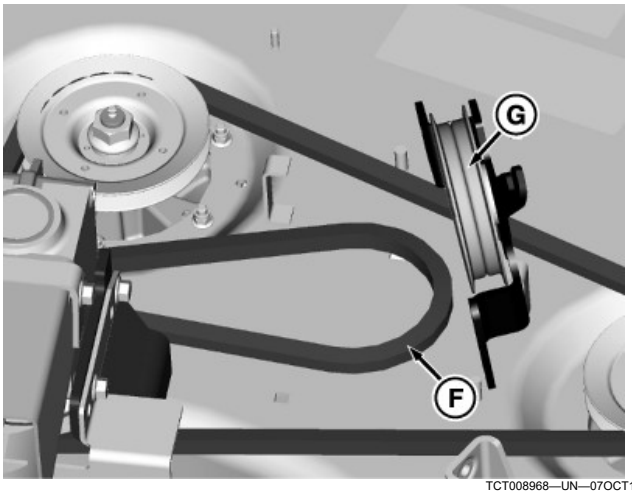
1. Lower mower deck to the ground.
2. Remove mower deck belt shield.
3. Park machine safely. (See Parking Safely in the Safety section.)



TCT008967—UN—27FEB14

Picture Note: 60 in. side discharge deck shown.

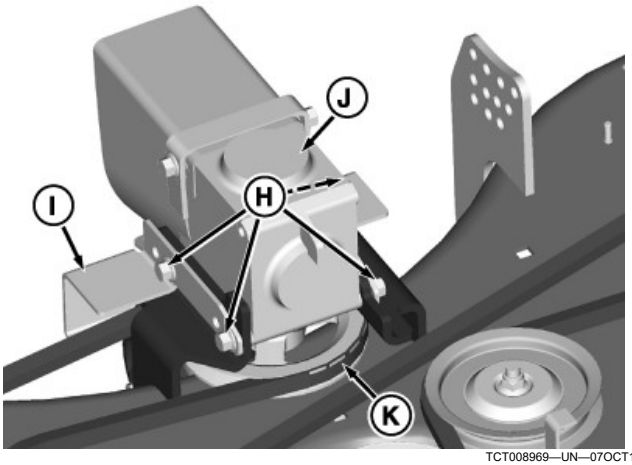
4. Loosen nuts (A) and (B).
5. Remove nut (C), tension spring (D) and rod (E) from mower deck.
6. Remove nuts and washer from (A) and (B).



TCT008968—UN—07OCT13

Picture Note: 60 in. side discharge deck shown.

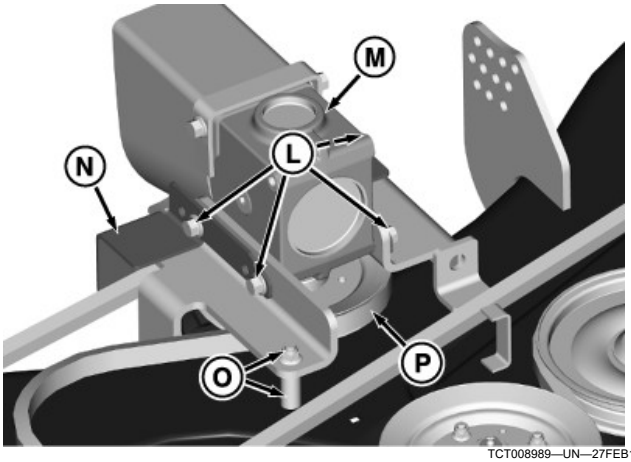
7. Remove drive belt (F) from belt tensioner sheave (G).



TCT008969—UN—07OCT13

Picture Note: 60 in. side discharge deck shown.

8. **60 in. side discharge and 62 in. rear discharge decks:**
   a. Remove four bolts (H) securing guard bracket (I) and gear box (J) to mower deck mounting brackets.
   b. Slide gearbox out from mounting brackets.
   c. Remove drive belt (K) from sheave.



TCT008989—UN—27FEB14

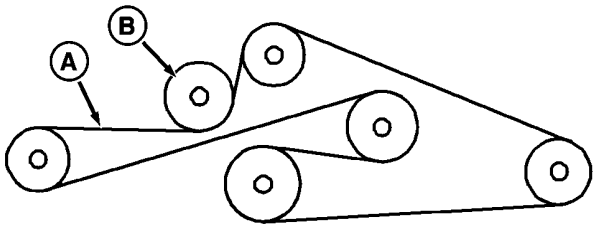
Picture Note: 72 in. side discharge deck shown.

9. **72 in. side discharge decks:**
   a. Remove four bolts (L) holding gear box (M) and guard bracket (N) to mower deck mounting brackets.
   b. Remove bolt and support bushing (O).
   c. Slide gear box out from mounting brackets.
   d. Remove drive belt (P) from sheave.

Installing

Installation is done in the reverse order of removal.

NOTE: See belt routing diagram on mower deck idler arm.



TCT008970—UN—07OCT13

Picture Note: Viewed from rear of deck.

1. Route drive belt (A) around mower deck sheaves.
2. Loosen nut on sheave (B) to ease installation of belt.
3. Secure gearbox and guard bracket with four bolts. Tighten bolts to specifications.

Specification

Gearbox Bolt—Torque. . . . . 73 N·m (54 lb.-ft.)

4. **183 cm (72 in.) decks only:** Install the support bushing, bolt, and nut.
5. Adjust tension of mower deck drive belt. (See Adjusting Drive Belt Tension in this section.)

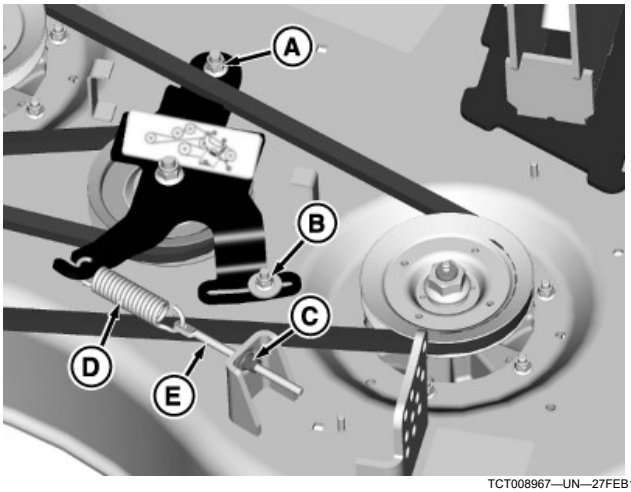
OUMX068,0000316-19-28FEB14

Removing and Installing Drive Belt and Gearbox (GLC Decks)

NOTE: Except where otherwise indicated, the procedure for removing and installing the drive belt and gearbox is similar for both GLC decks.

Removing

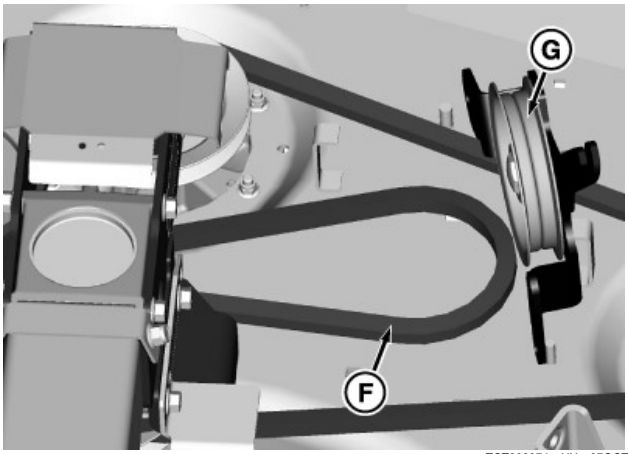
1. Lower mower deck to the ground.
2. Remove mower deck belt shield.
3. Park machine safely. (See Parking Safely in the Safety section.)



TCT008967—UN—27FEB14

Picture Note: 60 in. GLC side discharge deck shown.

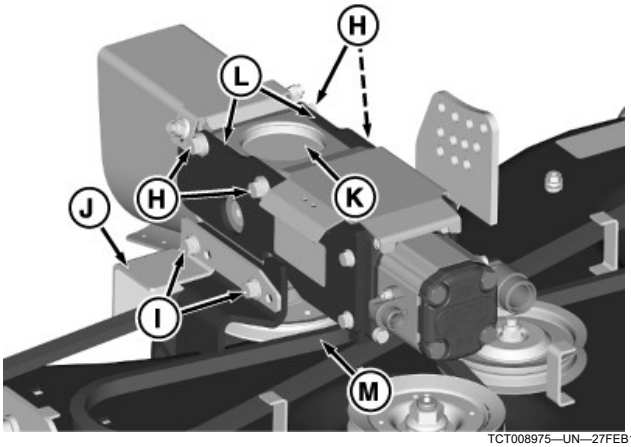
4. Loosen nuts (A) and (B).
5. Remove nut (C), tension spring (D) and rod (E) from mower deck.
6. Remove nuts and washer from (A) and (B).



TCT008974—UN—07OCT13

Picture Note: 60 in. GLC side discharge deck shown.

7. Remove drive belt (F) from belt tensioner sheave (G).



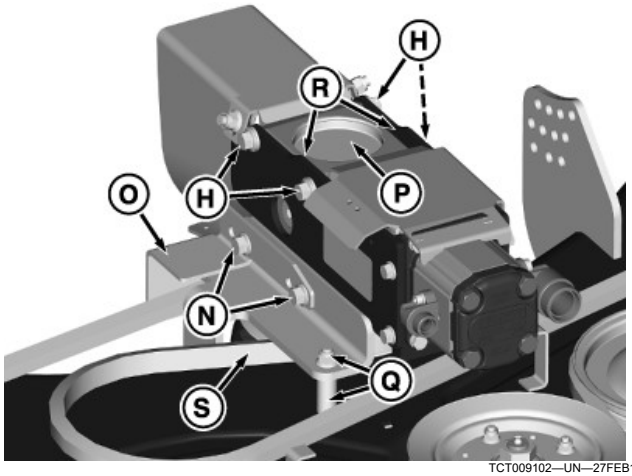
TCT008975—UN—27FEB14

Picture Note: 60 in. GLC side discharge deck shown.

8. **60 in. GLC deck:**

IMPORTANT: Avoid damage! The top four bolts (H) must not be loosened or removed during this procedure. Loosening of the bolts causes pump coupler misalignment.

a. Remove four bolts (I) securing guard bracket (J) and gear box (K) to mower deck mounting brackets.
b. Slide gear box and pump mounting brackets (L) out from mounting brackets.
c. Remove drive belt (M) from sheave.



TCT009102—UN—27FEB14

Picture Note: 72 in. GLC side discharge deck shown.

9. **72 in. GLC deck:**

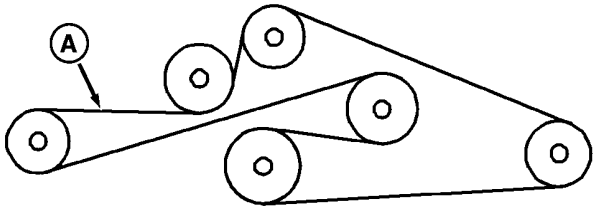
IMPORTANT: Avoid damage! The top four bolts (H) must not be loosened or removed during this procedure. Loosening of the bolts causes pump coupler misalignment.

a. Remove four bolts (N) securing guard bracket (O) and gear box (P) to mower deck mounting brackets.
b. Remove bolt and support bushing (Q).
c. Slide gear box and pump mounting brackets (R) out from mounting brackets.
d. Remove drive belt (S) from sheave.

Installing

Installation is done in the reverse order of removal.

NOTE: See belt routing diagram on mower deck idler arm.



TCT008976—UN—07OCT13

Picture Note: Viewed from rear of deck.

1. Route drive belt (A) around mower deck sheaves.
2. Loosen nut on sheave (B) to ease installation of belt.
3. Secure gearbox and guard bracket with four bolts. Tighten bolts to specifications.

Specification

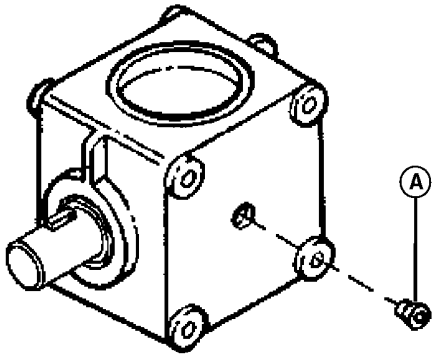
Gearbox Bolt—Torque. . . . . 73 N·m (54 lb.-ft.)

4. **183 cm (72 in.) GLC deck only:** Install the support bushing, bolt, and nut.
5. Adjust tension of mower deck drive belt. (See Adjusting Drive Belt Tension in this section.)

OUMX068,0000318-19-28FEB14

Checking Gearbox Oil Level

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Make sure mower is in operating position and level.



TCAL46590—UN—12APR13

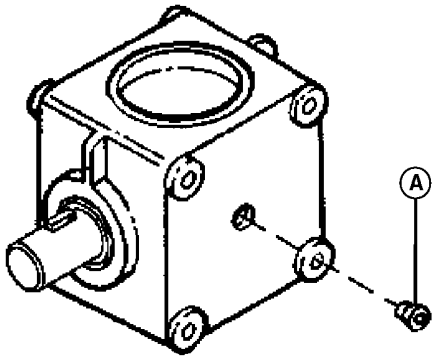
Reference view shown.

3. Remove check plug (A). Oil should be level with bottom of hole.
4. Add oil, if necessary, through check plug hole.
5. Install check plug and tighten.

OUMX068,00007D5-19-29MAY14

Changing Gearbox Oil

1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Remove drive belt and gearbox.



TCAL46591—UN—12APR13

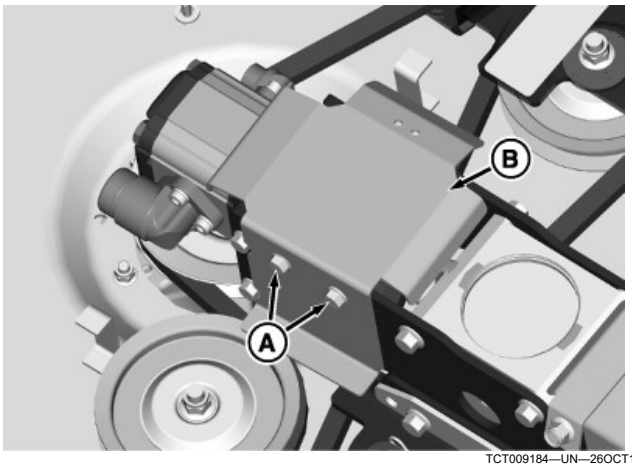
Reference view shown.

3. Remove check plug (A) and tilt gearbox on it's side, over a suitable container, and allow the gearbox oil to drain completely.
4. Install gearbox and drivebelt.
5. Add oil through check plug hole until oil is level with the bottom of the hole.
6. Install check plug and tighten.

OUMX068,00002A9-19-26OCT13

Changing Gearbox Oil (GLC Decks)

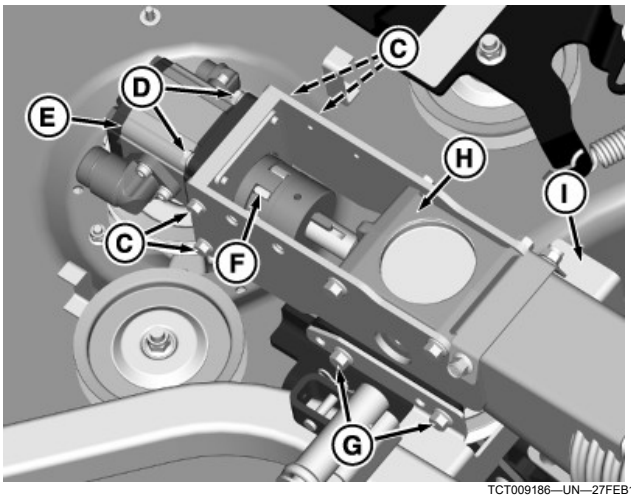
1. Park machine safely. (See Parking Safely in the SAFETY section.)
2. Remove belt shields.
3. Remove drive belt from gearbox.



TCT009184—UN—26OCT13

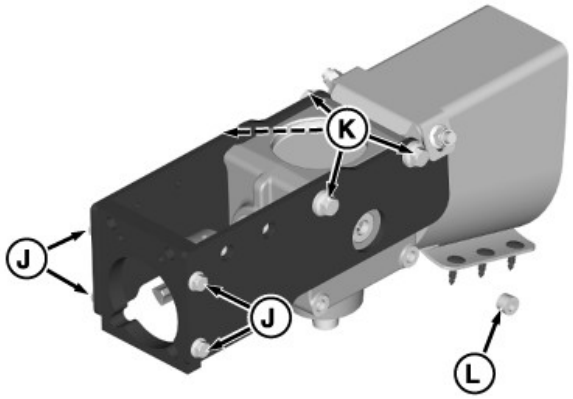
4. Remove two bolts (A) and protective cover (B).

IMPORTANT: Avoid damage! Do not remove pump mounting bracket bolts (C). The pump mounting bracket is aligned at the factory to prevent coupler misalignment.



TCT009186—UN—27FEB14

5. Remove four pump mounting bolts (D).
6. Remove pump (E) from gearbox. One half of coupler and spider (F) come off with the pump.
7. Remove four bolts (G) attaching gearbox (H) and shield (I) to mower deck mounting brackets. The coupler half comes off with the gearbox.



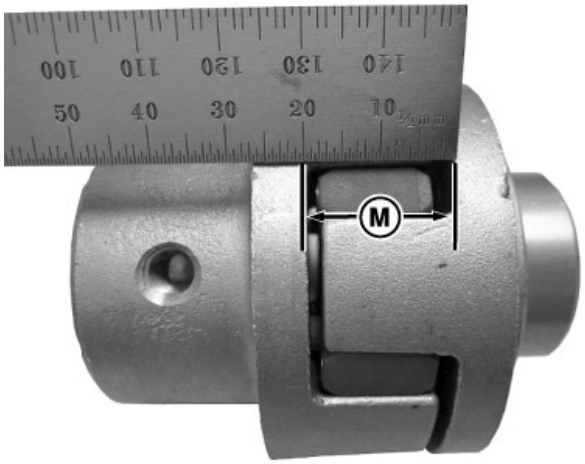
TCT009185—UN—27FEB14

8. Remove check plug (L) and tilt gearbox on its side, over a suitable container. Allow the gearbox oil to drain completely.

NOTE: DO NOT REMOVE OR LOOSEN PUMP MOUNTING BRACKETS. Oil must be changed without touching bolts (J) or the four bolts (K) on top of the gearbox.

IMPORTANT: Avoid damage! Whenever a coupler is replaced, the spider must also be replaced.

9. Inspect couplers on gearbox and pump shaft. Replace as necessary.
10. Wrap belt around sheave. Install gearbox subassembly and shield bracket.
11. Add oil through check plug hole until oil is level with the bottom of the hole.
12. Install check plug and tighten.



TCT010743—UN—17MAR14

13. Using the coupler half on the gearbox as an alignment guide, install the pump with coupler half and spider. Verify gap (M) between the coupler halves is to specification.

Specification

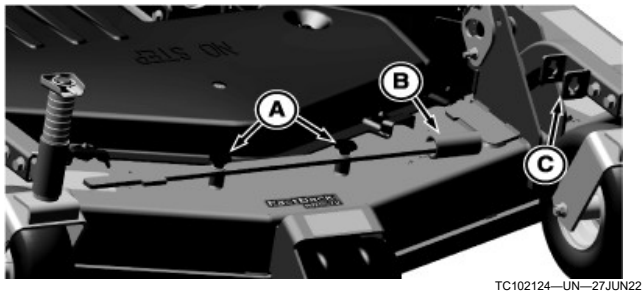
Coupler Halves—Gap. . . . . 20 mm (0.787 in.)

14. Install the protective cover.
15. Install the belt shields.

OUMX068,00003BA-19-17MAR14

Removing and Installing Blades

1. Raise mower deck completely.
2. Park machine safely. (See Parking Safely in the Safety section.)
3. Lock lift arm service latches.



TC102124—UN—27JUN22

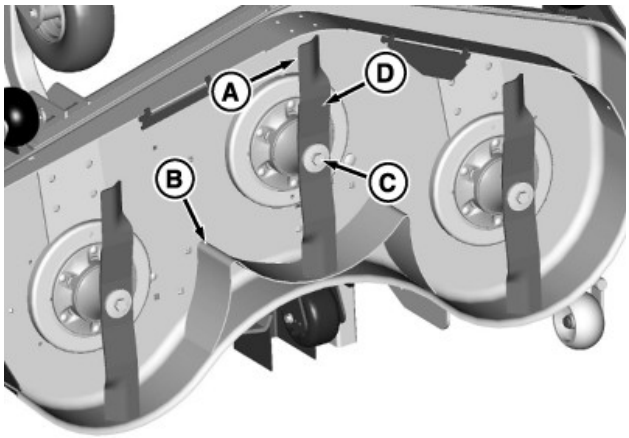
72 in. RD service bar

4. (For 72 in. RD only) Unscrew the two threaded knobs (A) that secure the service bar (B) to the mower deck. Pickup and slide the flat end of the service bar in bracket (C).
5. Rotate mower deck for service (for 72 in. RD mower deck use service bar to rotate).

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

6.



TCT010387—UN—24FEB14

Insert a wooden block between end of blade (A) and edge of deck (B) to prevent blade from turning while removing blade hardware.

7. Remove bolt and washer (C), by turning the bolt counterclockwise until removed. Remove blade (D) from spindle. Repeat for all blades requiring service.
8. Inspect the blades for damage. Replace all damaged blades.
9. Sharpen dull blades.
10. Clean blades, spindles, and hardware.
11. Balance the blades.
12. Install blade onto mower deck spindle with wings of blade facing up.
13. Install blade bolt and washer with the cupped-side of washer against the blade. Tighten blade bolt to specification. Repeat for other blades.

Specification

Blade Bolt—Torque. . . . . 122 N·m (90 lb.-ft.)

14. Lower mower decks completely.

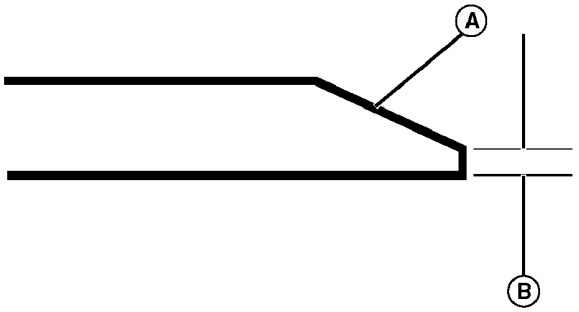
h2ac9y3,1656331915067-19-29JUN22

Sharpening Blades

CAUTION: Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades.

Always wear safety eye protection when grinding.

- Sharpen blades with grinder, hand file, or electric blade sharpener.



TCAL46593—UN—12APR13

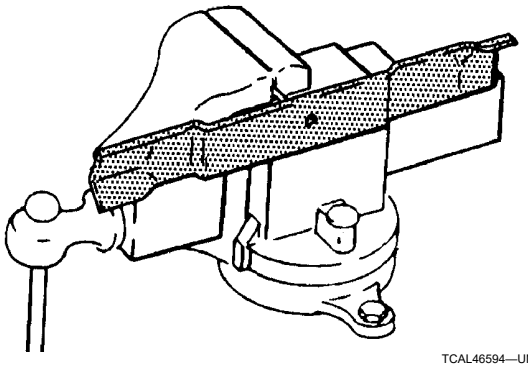
- Keep original bevel (A) when grinding.
- Blade should have 0.40 mm (1/64 in.) cutting edge (B) or less.
- Balance blades before installing.

OUMX068,00002AB-19-01DEC13

Balancing Blades

CAUTION: Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades.

1. Clean blade.



TCAL46594—UN—12APR13

2. Put blade on nail in a vise. Turn blade to horizontal position.
3. Check balance. If blade is not balanced, heavy end of blade will drop.
4. Grind bevel of heavy end. Do not change blade bevel.

OUMX068,00002AC-19-01DEC13

Troubleshooting

Using Troubleshoot Chart

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

MP47322,00F467B-19-03AUG23

Specifications

60 in. Mower Deck (Side Discharge)

Cutting Height Range	25–152 mm (1–6 in.)
Weight	184 kg (405 lb.)
Cutting Width	152.4 cm (60 in.)
Overall Width	186.7 cm (73.5 in.)

OUMX068,0000209-19-04OCT13

60 in. GLC Mower Deck (Side Discharge)

Cutting Height Range	25–152 mm (1–6 in.)
Weight	189 kg (416 lb.)
Cutting Width	152.4 cm (60 in.)
Overall Width	186.7 cm (73.5 in.)

OUMX068,000020A-19-17MAR14

62 in. Mower Deck (Rear Discharge)

Cutting Height Range	25–152 mm (1–6 in.)
Weight	180 kg (397 lb.)
Cutting Width	157.5 cm (62 in.)
Overall Width	163.8 cm (64.5 in.)

OUMX068,000020B-19-04OCT13

72 in. Mower Deck (Side Discharge)

Cutting Height Range	25–152 mm (1–6 in.)
Weight	224 kg (493 lb.)
Cutting Width	182.9 cm (72 in.)
Overall Width	218.4 cm (86 in.)

OUMX068,000020C-19-04OCT13

72 in. GLC Mower Deck (Side Discharge)

Cutting Height Range	25–152 mm (1–6 in.)
Weight	229 kg (504 lb.)
Cutting Width	182.9 cm (72 in.)
Overall Width	218.4 cm (86 in.)

OUMX068,000020D-19-17MAR14

72 in. Mower Deck (Rear Discharge)

Cutting Height Range	25–152 mm (1–6 in.)
Weight	247 kg (544.5 lb.)
Cutting Width	182.9 cm (72 in.)
Overall Width	218.4 cm (86 in.)

h2ac9y3,1655731226940-19-20JUN22

Tire Dimensions

Caster Tires	11 x 4-5

AP43109,00002C7-19-15APR13

Tire Inflation Pressures

Machine Tires	Check machine Service Intervals label
Mower Deck Caster Tires	semi-pneumatic

OUMX068,000020E-19-26OCT13

Capacities

Gearbox Capacity	0.4 L (13.5 oz.)

AP43109,00002C9-19-16APR13

Recommended Lubricants

Gearbox Oil	GL-5 (90W)
Grease	See Service Lubrication Section

AP43109,00002CA-19-15APR13

Tightening Torques

Blade Mounting Bolts	122 N·m (90 lb.-ft.)
Gearbox Mounting Bolts	73 N·m (54 lb.-ft.)
Caster Arm to Deck Bolts	81 N·m (60 lb.-ft.)
Drive Shaft to Gearbox Bolts	122 N·m (90 lb.-ft.)

OUMX068,0000618-19-24FEB14

Declaration of Conformity

Declaration of Conformity

EC Declaration of Conformity

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

The undersigned hereby declares that
Machine Type: Side Discharge Mower Deck (60 in. Mower Export)
Model: 1.52 M (60 in.) Cutting Width
Machine Type: Rear Discharge Mower Deck (62 in. Mower Export)
Models: 1.58 M (62 in.)Cutting Width
Machine Type: Side Discharge Mower Deck (72 in. Mower Export)
Models: 1.83 M (72 in.) Cutting Width
Machine Type: Side Discharge GLC Mower Deck (60 in. Mower Export)
Models: 1.52 M (60 in.) Cutting Width
Machine Type: Side Discharge GLC Mower Deck (72 in. Mower Export)
Models: 1.83 M (72 in.) Cutting Width
Machine Type: Rear Discharge Mower Deck (72 in. Mower Export)
Models: 1.83 M (72 in.) Cutting Width
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: Fuquay-Varina, NC USA
Date of Declaration: 1 December 2022
Manufacturing Unit: John Deere Turf Care

CE

DXCE01—UN—28APR09

TCT015240—UN—28MAR17

Name: Dan Thiemke
Title: Product Engineering Manager, Commercial Mowing

h2ac9y3,1658238181454-19-19JUL22

John Deere Quality Statement

UK Declaration of Conformity

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

The undersigned hereby declares that
Machine Type: Side Discharge Mower Deck (60 in. Mower Export)
Model: 1.52 M (60 in.) Cutting Width
Machine Type: Rear Discharge Mower Deck (62 in. Mower Export)
Models: 1.58 M (62 in.)Cutting Width
Machine Type: Side Discharge Mower Deck (72 in. Mower Export)
Models: 1.83 M (72 in.) Cutting Width
Machine Type: Side Discharge GLC Mower Deck (60 in. Mower Export)
Models: 1.52 M (60 in.) Cutting Width
Machine Type: Side Discharge GLC Mower Deck (72 in. Mower Export)
Models: 1.83 M (72 in.) Cutting Width
Machine Type: Rear Discharge Mower Deck (72 in. Mower Export)
Models: 1.83 M (72 in.) Cutting Width
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 Walldorf GmbH & Co. KG
Customer Support
Impexstraße 3
D-69190 Walldorf
EUConformity@JohnDeere.com

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

Place of Declaration: Fuquay-Varina, NC USA
Date of Declaration: 1 October 2022
Manufacturing Unit: John Deere Turf Care
Ag & Turf Products Importer: John Deere Ltd- Harby Road, Langar, Nottinghamshire, NG13 9HT
Forestry Products Importer: John Deere Forestry Ltd- Carlisle Airport Industrial Estate, Carlisle, Cumbria, CA6 4NW

UK CA

TC101783—UN—21FEB21

TCT015240—UN—28MAR17

Name: Dan Thiemke

Title: Product Engineering Manager, Commercial Mowing

h2ac9y3,1658238296867-19-19JUL22

John Deere Quality Statement

John Deere Quality

John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your John Deere dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.

Step 1

Refer to your operator's manual

A. It has many illustrations and detailed information on the safe and proper operation of your equipment.

B. It gives troubleshooting procedures, and specification information.

C. It gives ordering information for parts catalogs, service and technical manuals.

D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2

Contact your dealer

A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.

B. First, discuss your questions or problems with your dealer's trained parts and service staff.

C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner.

D. If your questions or problems are not resolved by the dealer, then go to Step 3.

Step 3

Contact John Deere

A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, contact John Deere for assistance.

B. For prompt, effective service, please have the following ready before you call:

- The name of the dealer with whom you've been working.
- Your equipment model number.
- Number of hours on machine (if applicable).
- Your serial number which you recorded on the inside front cover of this manual.
- If the problem is with an attachment, your attachment identification number.

C. Then call 1-800-537-8233 (United States and Canada) and our advisor will work with your dealer to investigate your concern. If you are outside the United States and Canada, visit the following website:

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

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

SP66632,00043A7-19-28AUG15

Index

A

Anti-scalp wheels
- Front, adjusting ... 21
- Rear, adjusting ... 22

B

Ballasting requirements
- 1435, 1445, 1545, 1565 ... 10
- 1550, 1570, 1575, 1580, 1585 ... 11

Belt shields, removing and installing ... 26

Blades
- Removing and installing ... 31

Blades
- Balancing ... 32
- Sharpening ... 32

C

Cutting height, adjusting ... 18

D

Drive belt
- Removing and installing
  - All except GLC decks ... 27
  - GLC decks ... 28
- Tension, adjusting ... 27

F

Front wheel track width, adjust ... 11

G

Gearbox oil
- Changing ... 30
- Changing, GLC decks ... 30
- Level, checking ... 30

Grease ... 23

L

Labels, safety without text ... 6

Lubrication, service
- Anti-scalp wheel (60 and 72 Inch) ... 23
- Caster wheel axles and pivots ... 24
- Mower blade spindle ... 23
- PTO driveshaft ... 24

M

Mower deck
- Belt shields, removing and installing ... 26
- Cleaning ... 25
- Rotating for service and operation ... 25

Mower deck level
- Adjusting ... 20
- Checking ... 19

Mower Deck, non GLC
- Installing ... 12
- Removing ... 16

P

PTO, engaging ... 21

R

Replacement parts ... 2

S

Safety ... 7

Safety labels, no text
- Avoid injury and read operator's manual ... 6
- Avoid injury from rotating blades ... 7
- Avoid injury from rotating blades and thrown objects ... 7
- Avoid injury from rotating shafts and drivelines ... 7
- Avoid injury from rotating shafts and drivelines (MCS decks) ... 7
- Avoid injury from thrown objects ... 7
- Location, 62 in. rear discharge ... 5, 6
- Location, all except 62 in. rear discharge ... 4

Safety labels, without text ... 6

Service intervals
- After each use ... 22
- After first 10 hours ... 22
- Before each use ... 22
- Every 25 hours ... 23
- Every 50 hours ... 23
- Every 100 hours ... 23
- Every 250 hours ... 23
- Every 500 hours ... 23
- Initial break-in ... 22

Service latches, using ... 17

Storing Attachment ... 17

Storing Safety ... 17

T

Tire Pressure ... 11

Troubleshooting chart ... 32

W

Wheels, mower deck gage
- Front, adjusting ... 21
- Rear, adjusting ... 22

Notes