

**JOHN DEERE**  
**WORLDWIDE COMMERCIAL & CONSUMER**  
**EQUIPMENT DIVISION**

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**Power Flow™**  
**for 54C, 54D, 62C and 62D Mowers**

**SN (010001- )**

**OMM145652 E9**

**OPERATOR'S MANUAL**



**JOHN DEERE**

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North American Version  
Litho in U.S.A.

# INTRODUCTION

## Introduction

### 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.

## Product Identification

### Product Compatibility

The POWER FLOW™ is compatible with the 54C, 54D, 62C and 62D mower decks.

### Record Identification Numbers

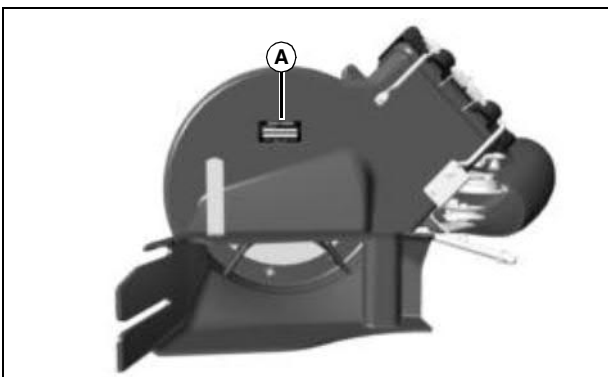
#### POWER FLOW™

54C, 54D Series High Performance Serial No. (010001 - )

62C, 62D Series High Performance Serial No. (010001 - )

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

You will need to locate the model and serial number for the POWER FLOW and record the information in the spaces provided below.



MX10017

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

## Safety Labels



### Understanding The Machine Safety Labels

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.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

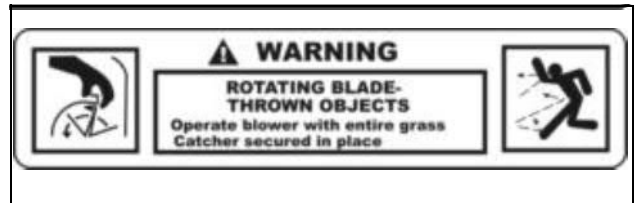
### Safety Label Location



M118454, MX10016

Operate blower with entire grass catcher secured in place.

### WARNING - M118454



M118454

#### Rotating Blade -Thrown Objects

- Operate blower with entire grass catcher secured in place.

## Safety

### Read Safety in Machine Operator's Manual

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

### Operating Safely

Read, understand and follow all instructions in this attachment manual, the machine operator's manual and safety signs on equipment before

# SAFETY

starting.

Use proper front ballast. Remove ballast when the material collection system is removed.

Hopper extends beyond machine. Be aware of surrounding objects when making short turns.

Do not operate material collection system unless entire grass catcher is fastened in place with hopper cover securely latched.

Do not let anyone ride on the mower or material collection system. Riders are subject to injury such as being struck by foreign objects or being thrown off. Riders may obstruct the operator's view and cause a collision.

## Before bag removal or installation:

- Stop mower.
- Disengage mower or PTO.
- Stop engine and remove key.
- Wait for engine and all moving parts to stop before leaving the operator seat.

## Before backing up machine:

- Stop machine.
- Look behind hopper for children.
- Keep bystanders away when unloading material collection system.

## Operate safely on slopes:

- Empty bags when they are half full.
- Do not operate on steep slopes.
- Before turning, slow down.
- Avoid sudden starts and stops.
- Do not park machine with material collection system on slopes.

## Bag Maintenance:

- Bag is subject to wear and deterioration.
- Check bag frequently; replace when necessary.
- Use John Deere bag or equivalent to comply with safety specifications.
- Do not leave clippings in bags overnight.

## Parking Safely

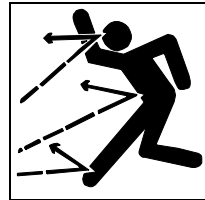
1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades or any other attachments.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.
8. Close fuel shut-off valve, if your machine is equipped.
9. Disconnect the negative battery cable or remove the spark plug wire(s) (for gasoline engines) before servicing the machine.

## Protect Children

- Tragic accidents can occur if the operator is not alert to the presence of children. Keep children indoors when the machine and attachment are operated and under the watchful care of another responsible adult.

- Never assume that children will remain where you last saw them. Stay alert to the presence of children. Turn the machine off if a child enters the work area.

- Do not let children or an untrained person operate the machine.
- Do not carry or let children ride on any attachment or machine even with the attachment off. Do not tow children in a cart or trailer.



## Avoid Injury From Thrown Objects

- When operating the vehicle with the MCS attachment installed make sure all chutes and hoses are securely in place. Keep hopper closed or MCS in operating position.

- Stop the engine and wait for all moving parts to stop before removing or lifting any attachment components.

- Avoid injury from impeller blades and thrown objects. Remove attachment when operating vehicle in side discharge mode. Make sure deflector shield is in place on mower deck if attachment is removed.



## Avoid Injury From Rotating Blades

- Keep hands and feet away from rotating blades and blower assembly when engine is running.

- Stop engine and wait for moving parts to stop before servicing components.

- Do not operate MCS or blower unless all attachment components are in place and latched.

## Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service or adjust the machine or attachment while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachment completely to the ground or to an existing attachment mechanical stop before servicing the attachment. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers.
- Securely support any machine or attachment elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.

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# ASSEMBLY

- Check all hardware at frequent intervals to be sure the equipment is in safe working condition.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

Qty.	Description
3	Washer, M6
1	Spring

## Assembly

### Identify Parts

#### NOTE:

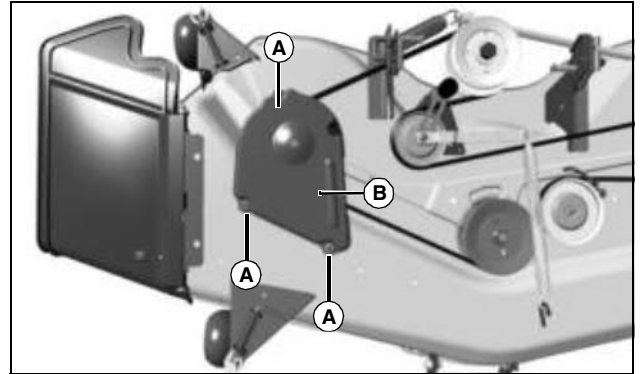
- If application requires an optional Power Flow Attachment Kit, the assembly instructions and a list of parts will be included with the kit.
- Mounting Kit is required if installing on 54D or 62D Mower Decks. See your John Deere dealer for ordering information.



MX10054b, MX10054c, MX10038, MX10751

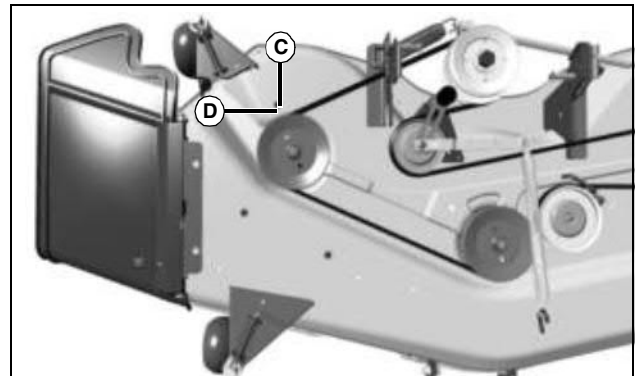
Qty.	Description
1	POWER FLOW (A)
1	Rear Baffle Plate (B)
1	Double Sheave (C)
1	Wire Form Support Shield Rod (D)
1	Blower Belt Shield (E)
1	Formed Front Mounting Bracket (F)
2	Bolt, M8x16
2	Flanged Bolt, M8x25
2	Flanged Bolt, M6x25
2	Flanged Locknut, M6
4	Locknut, M8

### Modify Mower Deck Belt Shield



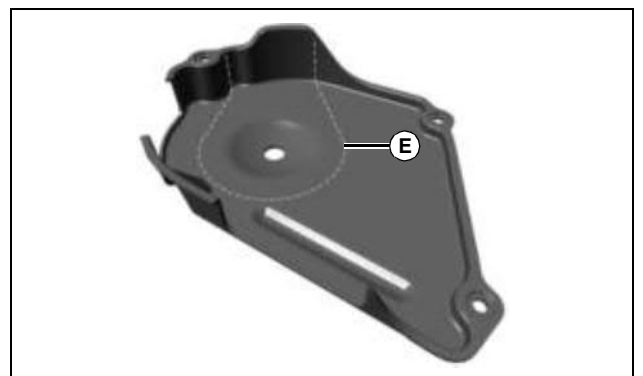
MX10040

1. Remove three flanged locknuts (A).
2. Remove deck belt shield (B).



MX10041

3. Remove retainer (C) and bolt (D).

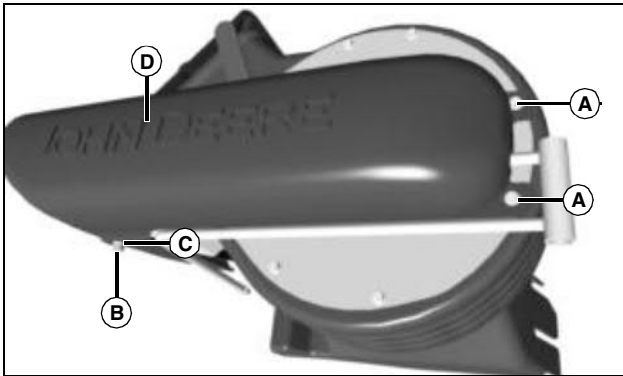


MX10042

4. Locate embossed cutout line (E) on bottom of deck belt shield.
5. Cut out embossed area.

# ASSEMBLY

## Modify Shields



MX10029

1. Remove two bolts (A), nut (B) and washer (C) attaching belt shield (D) to POWER FLOW.

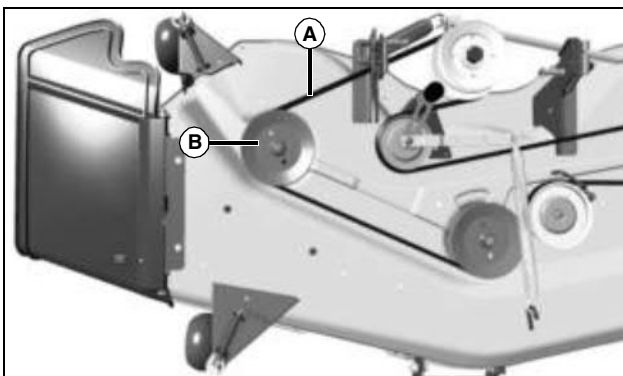


MX10749

2. Locate embossed cut line (E) on belt shield. Cut along line and remove section.
3. Install belt shield on POWER FLOW using two bolts (A), washer (C) and nut (B).

## Install Double Sheave

1. Disengage PTO.

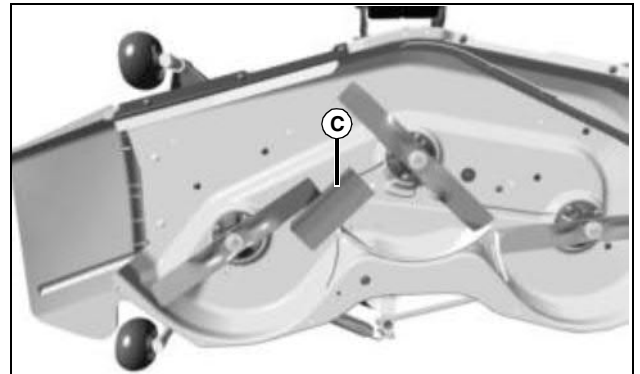


MX10045

2. Remove mower deck belt (A) from right spindle sheave (B). Inspect and replace belt if needed.



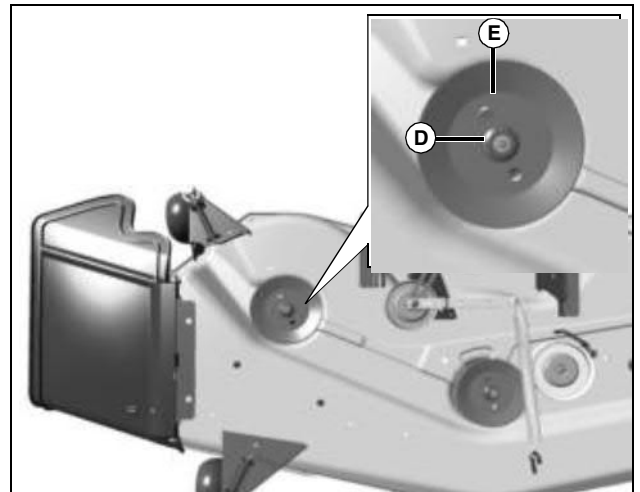
**CAUTION: Avoid injury! Blades are sharp. Always wear gloves when handling blades or working near blades.**



MX10046

3. Wedge a block of wood (C) between outer edge of blade and deck opening to prevent blade from turning.

**NOTE: Support the blade and spindle shaft assembly. After the flanged spindle nut is removed, the entire blade and spindle shaft assembly is free to fall out.**



MX10035, MX10047

4. With blade held stationary against wood block, remove and keep flanged spindle nut (D). Remove right spindle sheave (E).



**Suggest:**

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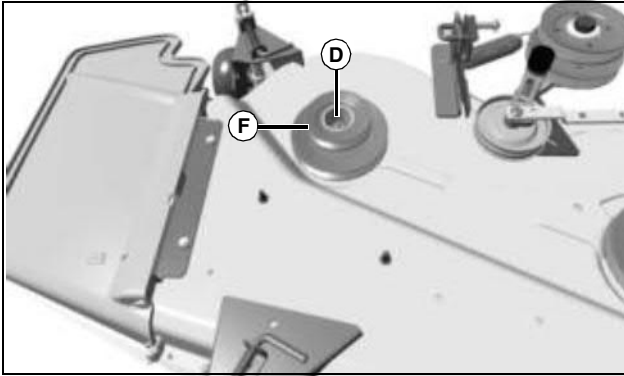
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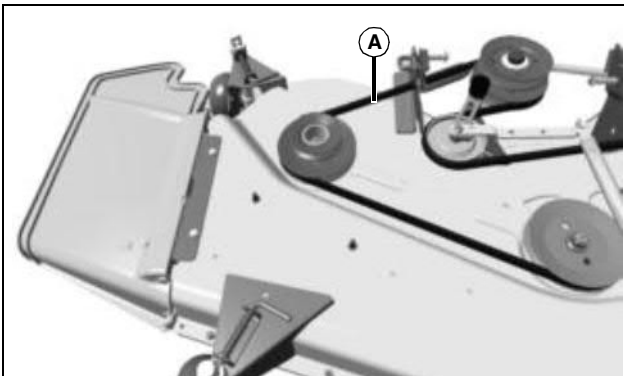
# ASSEMBLY

**IMPORTANT: Avoid damage! Tightening flanged spindle nut against blade cap screw may damage cap screw and spindle threads. Use a pipe wrench or other suitable device to hold double sheave stationary while tightening flanged spindle nut.**



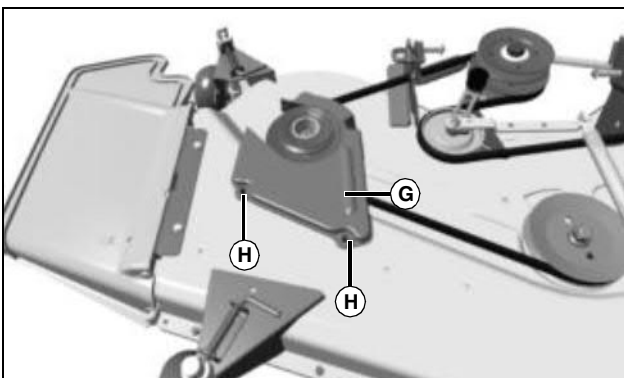
MX10032

5. Install double sheave (F) on spindle shaft with large pulley against deck.
6. With blade held stationary against wood block, install flanged spindle nut (D) and tighten to 163 N•m (120 lb-ft).



MX10048

7. Install original mower deck belt (A) in lower groove of double sheave.



MX10049

8. Install modified mower deck belt shield (G) on two bolts (H). Install two original flanged locknuts.
9. Safely unblock and lower mower deck to ground.
10. Clean and store right spindle sheave for use if POWER FLOW and double sheave are removed.

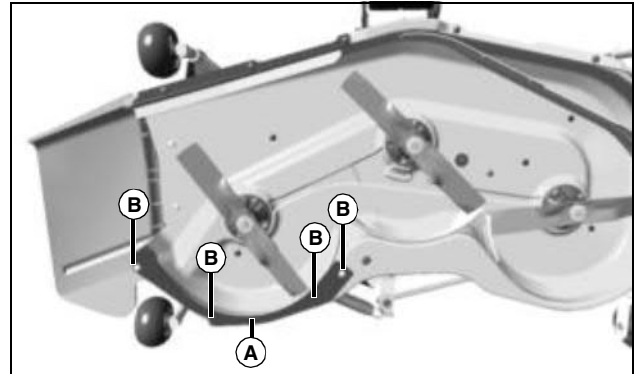
## Install Rear Baffle Plate

### Prepare Mower Deck

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

1. Turn mower deck over and clean underside.

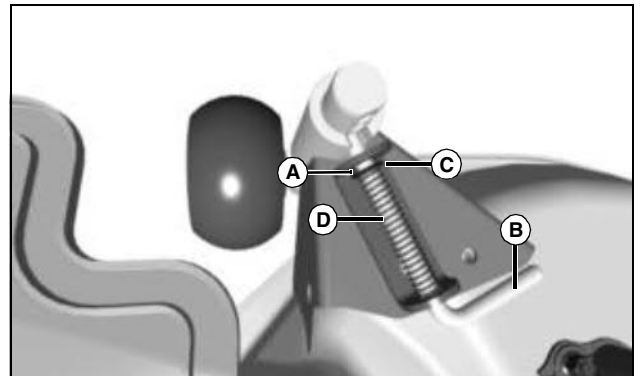
### Install Plate



MX10039

1. Install rear baffle plate (A) with four M8x16 bolts (B) and M8 locknuts. Tighten to 10-30 N•m (8-22 lb-ft).

## Install Gage Wheel Adjuster Pin



MX10043

1. Remove spring pin (A) from right rear gage wheel adjuster pin (B).
2. Remove adjuster pin (B), washer (C) and compression spring (D). Keep washer and spring.

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