

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

**Blower Assembly for LT Series Lawn
Tractors
48 QT**

OMM149901 I3

OPERATOR'S MANUAL



JOHN DEERE

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Previous Editions

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North American Version

Litho in U.S.A.



INTRODUCTION

Introduction

Using Your Operator's Manual

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.

This operator's manual is an important part of your machine and should remain with the machine when you sell it.

Specifications and design are subject to change without notice.

Product Identification

Product Compatibility

This 48QT Blower Assembly is compatible with the 48 Inch mower decks for the LT Series Lawn Tractors only.

Record Identification Numbers

48 QT Blower Assembly 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 blower assembly and record the information in the spaces provided below.

DATE OF PURCHASE:

DEALER NAME:

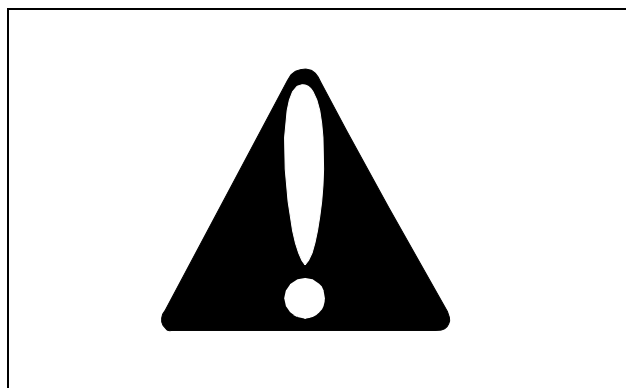
DEALER PHONE:

PRODUCT SERIAL NUMBER:

Safety

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

Understanding The Machine Safety Labels



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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.

WARNING: Rotating Blade-Thrown Objects



M118454, M97581

Operate blower with entire grass catcher secured in place.

Operating Safely

- Read the machine and attachment operator's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the machine and disengage the controls quickly.
- Do not let children or an untrained person operate machine.
- Never operate the machine without proper guards or other safety devices in place.
- Disengage all clutches and shift into neutral before starting the engine.
- Inspect machine before you operate and at frequent intervals while operating. Be sure hardware is tight. Repair or replace damaged badly worn, or missing parts.
- Make any necessary adjustments before you operate. Never attempt to make any adjustments while the engine is running, unless if recommended in adjustment procedure.
- Take all possible precautions when leaving the machine unattended. Shut off the engine before unplugging the attachment, or when making any repairs, adjustments, or inspections. Disengage the PTO, lower the attachment, lock the parking brake, stop the engine, and remove the key.
- Only operate during daylight or with good artificial light.
- Look behind machine before you back up. Back up carefully.
- Do not let anyone, especially children, ride on machine or attachment. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.
- Do not operate machine when you are tired or ill or under the influence of drugs or alcohol.
- Never operate the machine at high transport speeds on slippery surfaces.
- Use only attachments and accessories approved by the manufacturer of this product.
- After striking a foreign object, stop the engine, remove the spark plug wire, thoroughly inspect the machine for any damage, and repair the

SAFETY

damage before starting and operating the machine.

- Use extreme caution when operating on or near gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- If the machine vibrates abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Disengage any power to the attachment when the machine is transported or not in use.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- Always refer to the Storage section of the operator's manual for important details if storing this product for a long period of time.

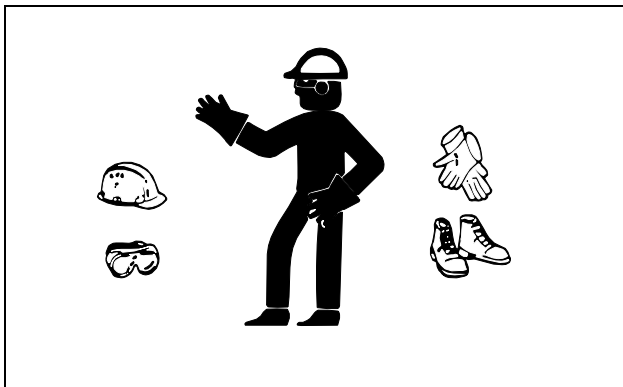
Parking Safely

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 park brake.
5. Stop engine.
6. Remove 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 (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.

Wear Appropriate Clothing



MIF

- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.

- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.

Avoid Injury From Rotating Blades



MIF

- Do not put hands or feet near blower assembly when engine is running.
- Stop engine before you unplug the blower assembly.
- Do not operate the blower assembly unless entire grass catcher is fastened in place with hopper cover latched in the CLOSED position.

Avoid Injury from Moving Parts

Before cleaning, repairing, or inspecting, make certain all moving parts have stopped. Disconnect the spark plug wire to prevent accidental starting. Disconnect the cord to electrical motors (if applicable).

Do not put hands or feet near or under rotating parts. Keep clear of any discharge area at all times.

Protect your hands when you inspect or unplug the attachment. Wear gloves and use proper tools.

Before you dismount to unplug or adjust attachment:

- Disengage PTO.
- Stop the engine.
- Lock the park brake.
- Remove the key.
- Wait for all moving parts to stop.
- Keep hands, feet and clothing away from attachment when engine is running.

Practice Safe Maintenance



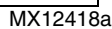
- Only qualified, trained adults should service this machine.

- 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 attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- 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.
- Check all hardware, including shear bolts, 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.

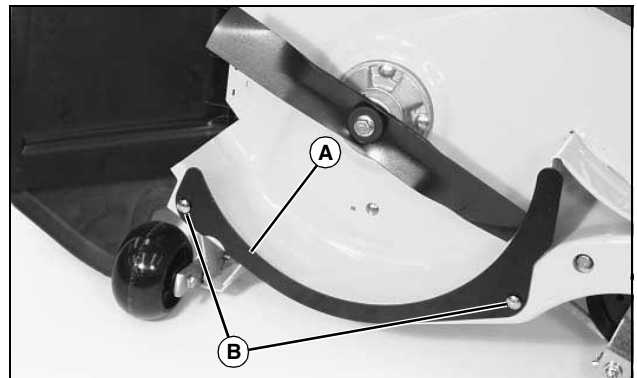
- ## Bag of Parts

Assembly

Identify Parts



- A- Blower Assembly**
B- Belt Shield
C- Front Bracket



M94154

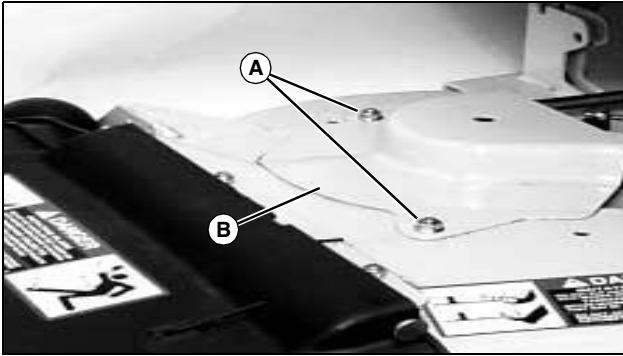
NOTE: Remove mower for ease of installation.

Install anti-blowout plate so raised grooves face outward.

Install anti-blowout plate (A) to underside of mower deck using two M8x16 carriage bolts (B) from outside and M8 lock nuts on inside.

ASSEMBLY

Remove Mower Deck Belt Shield



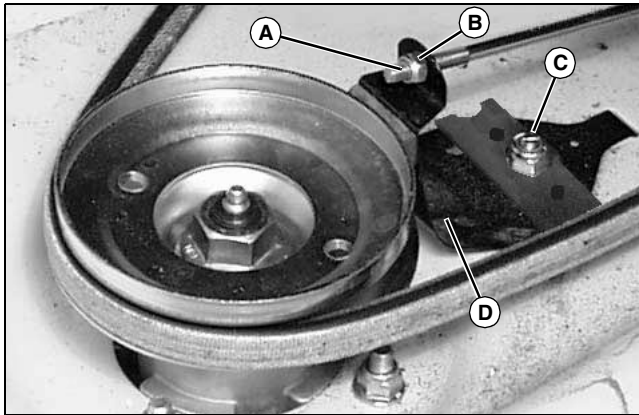
M96313

1. Remove two flange nuts (A) and belt shield (B) from mower deck right spindle. Do not remove two mower deck carriage bolts.
2. Clean and store shield for future use if and when blower assembly and double sheave are removed.
3. Save flange nuts for installation of blower assembly belt guide.

Remove Spindle Brake (If Equipped)

NOTE: Spindle sheave and brake appearance may vary.

Machines with electric clutch do not have a spindle brake.



M96314a

1. Mark first exposed thread (A) of brake rod on back side of spindle brake. This will be the initial adjustment mark for installation of new spindle brake supplied with blower assembly.

2. Remove and save brake rod adjustment nut (B).

NOTE: Early tractors may have a washer instead of a spindle brake strap.

3. Remove and save mower deck spindle brake mounting locknut (C) and spindle brake strap.

NOTE: If original spindle brake used a washer, discard spindle brake and washer. See John Deere dealer for late model replacement parts.

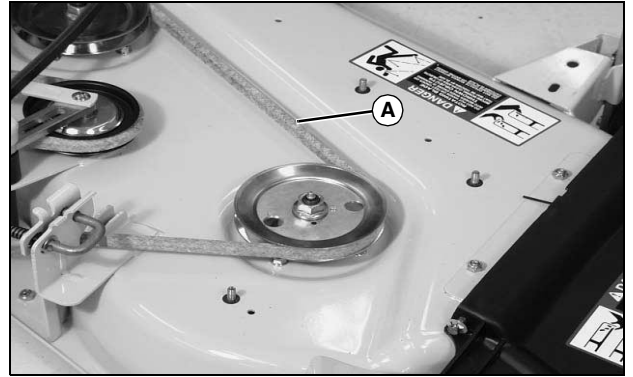
4. Remove spindle brake (D)

5. Clean, inspect, and store original spindle brake for use if blower assembly and double sheave are removed.

Install Double Sheave

NOTE: Spindle sheave appearance may vary.

1. Disengage PTO.

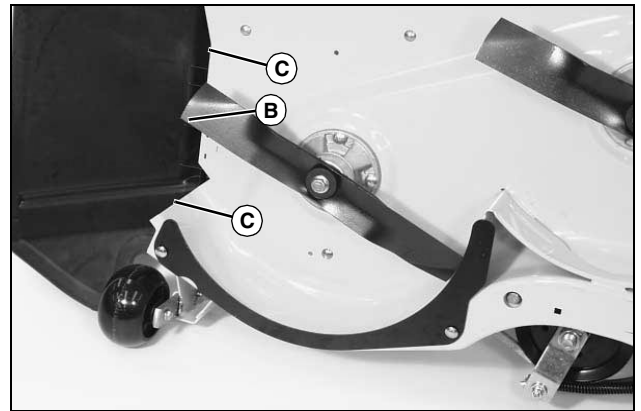


M94156

2. Remove drive belt (A) from right sheave. (See tractor operator's manual for belt removal instructions.)



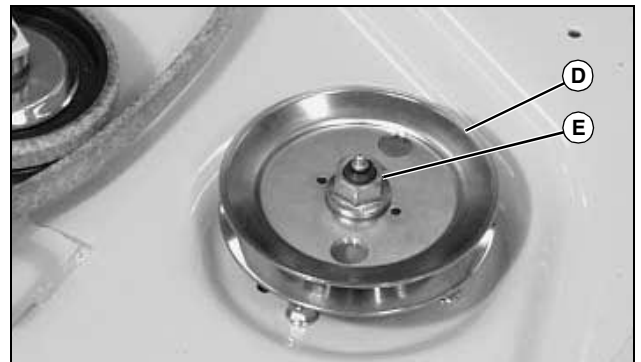
CAUTION: Avoid injury! Mower blades are sharp. Always wear gloves when handling mower blades or working near blades.



M94154

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

NOTE: After sheave nut (E) is removed, entire blade and spindle shaft assembly is free to fall out.



M94157

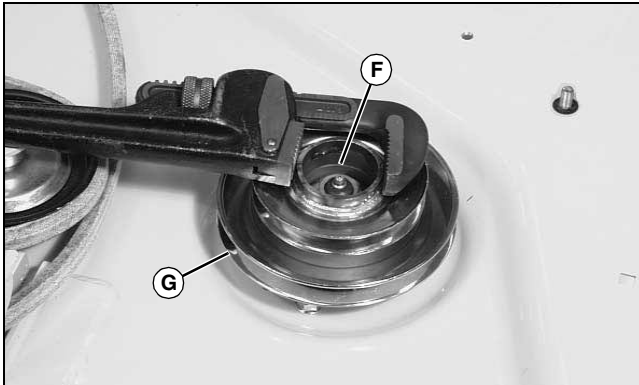
4. With blade held stationary against wooden block, remove flange nut (E) to remove original sheave (D).

5. Loosen blade cap screw only until it can be turned by hand. Do not remove entirely.

6. Clean and store original sheave (D) for later use if blower assembly and double sheave are removed.

ASSEMBLY

IMPORTANT: Avoid damage! Use a pipe wrench or other suitable tool to hold double sheave stationary while tightening flange lock nut. Do not use mower blade or blade cap screw to tighten against. This may damage blade cap screw and spindle threads.



M94158a

7. Align internal spline teeth (F) of blower assembly double sheave (G) with splines on spindle shaft.
8. Prevent sheave from turning by holding it with a pipe wrench.
9. Install and tighten original flange lock nut (E) to 145 N•m (107 lb-ft).
10. Tighten blade cap screw to 68 N•m (50 lb-ft) using wooden block between blade tip and edge of deck discharge opening.

NOTE: Double sheave sits lower than original sheave. This causes slight misalignment of mower deck drive belt to allow clearance for blower drive belt.

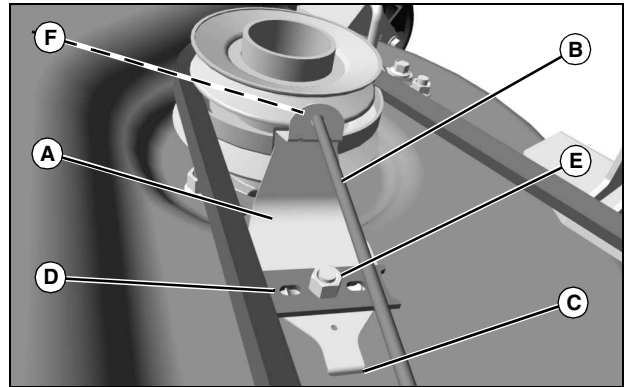


M96316

11. Install original mower drive belt (A) in lower belt groove of double sheave (G).
12. Safely unblock and lower mower deck to ground.

Install Double Sheave Spindle Brake (If Equipped)

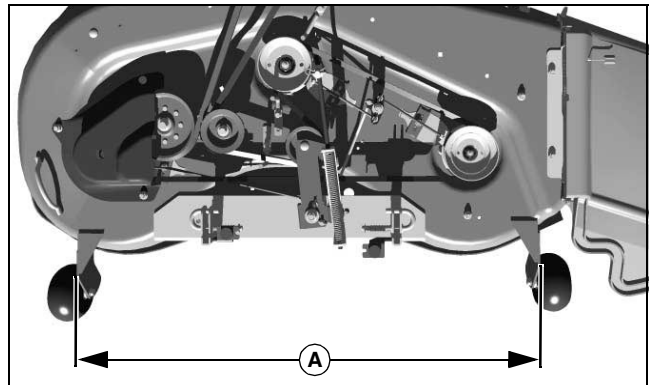
NOTE: Machines with an electric clutch do not need a spindle brake installed.



MX10453

1. Install double sheave spindle brake (A) over end of brake rod (B) so mounting tab seats in mower deck slot (C).
2. Install spindle brake strap (D) over aligning tabs on spindle brake.
3. Fasten spindle brake strap and spindle brake to mower deck using original washer and locknut (E). Tighten locknut to 37 N•m (27 lb-ft).
4. Install original brake rod lock nut (F) to initial adjustment mark made earlier in removal steps. Final adjustment is made when mower is installed on tractor.

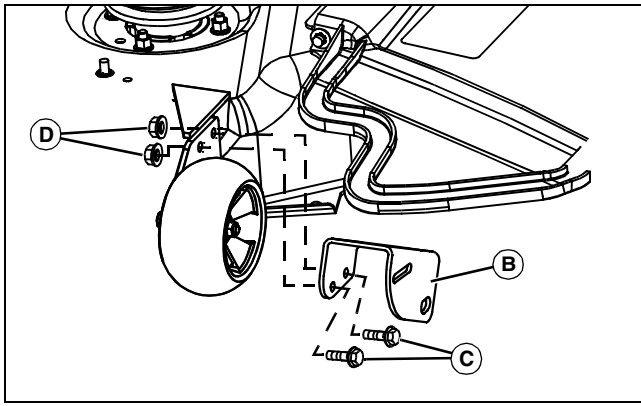
Install Rear Bracket



MX10455

1. Measure distance (A) from outside of left-rear gage wheel bracket to outside of right-rear gage wheel bracket.
 - If distance is 1027 mm (40.4 in.), use narrow rear bracket.
 - If distance is 987 mm (38.9 in.), use wide rear bracket.

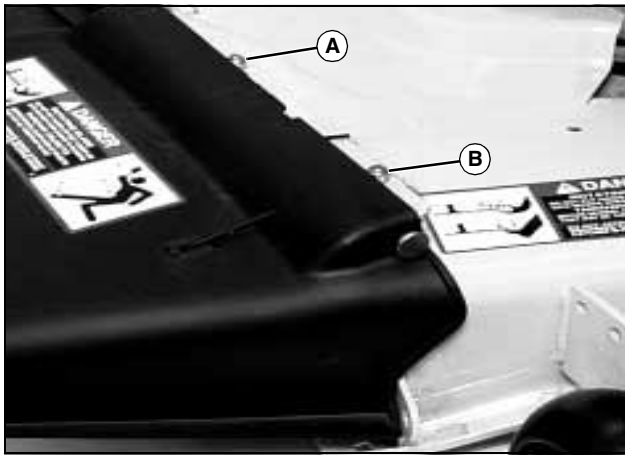
ASSEMBLY



MIF

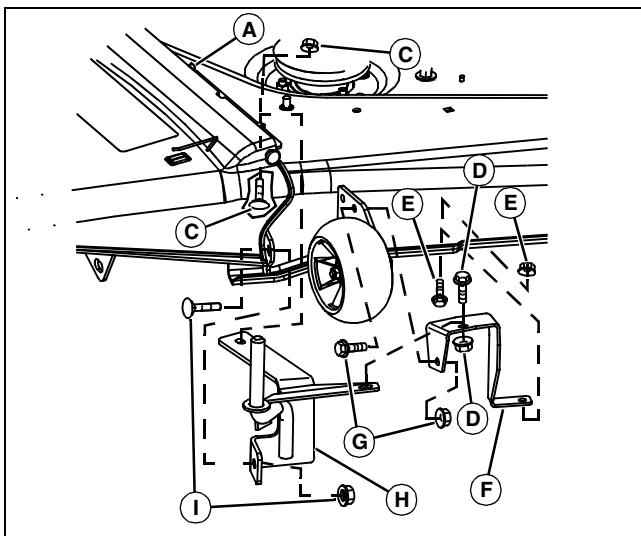
2. Install appropriate rear bracket (B) to right-rear gage wheel bracket using two M8x25 flange bolts (C) and M8 lock nuts (D).

Install Front Mounting Brackets



M96320

1. Loosen rear lock nut (A) of chute hinge plate. Do not remove.
2. Remove and discard front lock nut and carriage bolt (B) from chute hinge plate.



MIF

3. First install front bracket (F) using hardware (E) and (G). Then install front hinge pin mounting bracket (H) using hardware (C), (D), and (I).

Tighten nuts finger tight only:

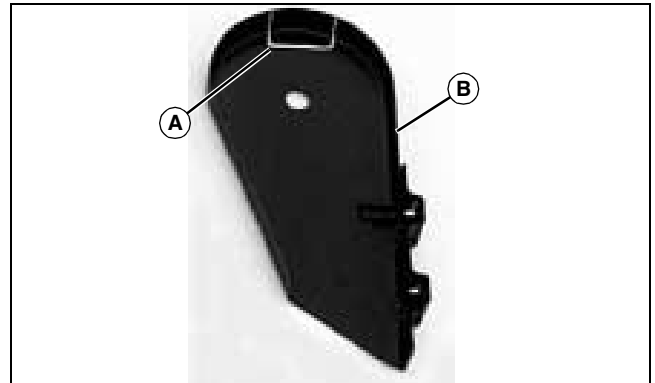
- (C) - M8x20 carriage bolt from underneath and M8 lock nut from on top.
- (D) - M10x25 flange bolt from top and M10 flange lock nut from underneath.
- (E) - M8x25 flange bolt from underneath and M8 flange lock nut on top.
- (G) - M8x25 flange bolt from outside and M8 flange lock nut from inside.
- (I) - M8x20 carriage bolt from outside and M8 lock nut on inside.

4. Tighten hardware in following sequence:

- a. (G) - M8x25 flange bolt and lock nut,
- b. (E) - M8x25 flange bolt and lock nut,
- c. Push discharge chute hinge bracket fully inward before tightening rear hinge bracket hardware (A) - M8x16 carriage bolt and lock nut and front hinge bracket hardware (C) - M8x20 carriage bolt and lock nut,
- d. (D) - M10x25 flange bolt and lock nut,
- e. (I) - M8x20 carriage bolt and lock nut.

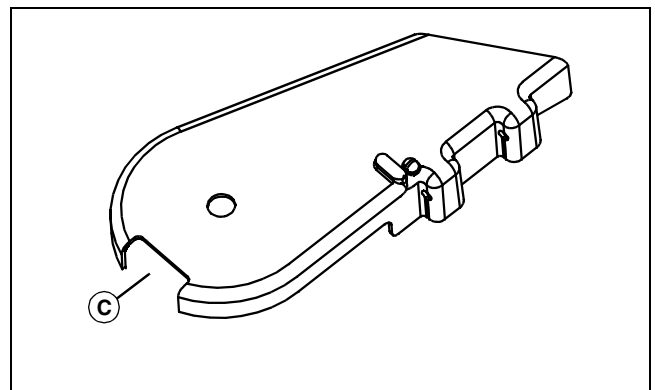
Notch Blower Belt Shield (If Spindle Brake Equipped)

NOTE: Machines with an electric clutch do not have a spindle brake installed, and do not need belt shield alteration.



M96312

1. Locate embossed cutout line (A) (highlighted in white for photo only) on bottom of blower assembly belt shield (B).



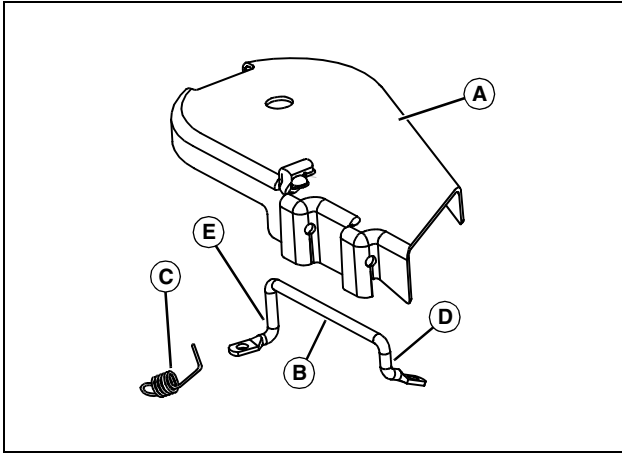
MIF

2. Cut end portion (C) from belt shield along embossed cutout line.

ASSEMBLY

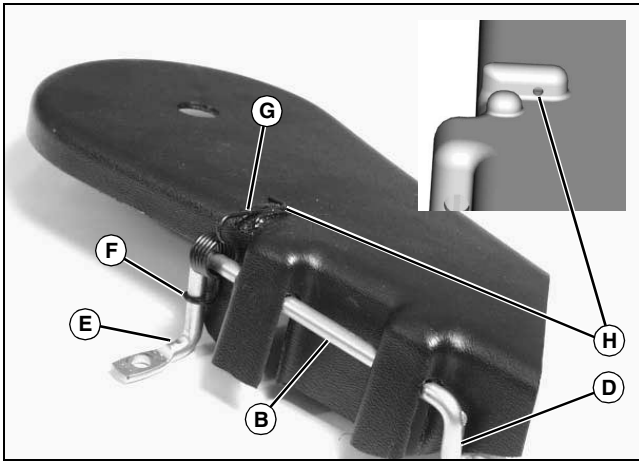
Assemble and Install Belt Shield

NOTE: Belt shield mounting bracket (B) has one short leg (D) and one long leg (E). Hinge spring (C) is assembled on long leg.



MIF

1. Assemble belt shield (A), mounting bracket (B) and hinge spring (C).

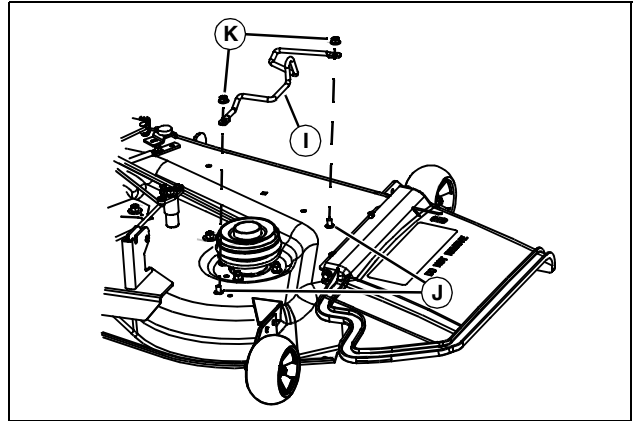


M96334a, M94167

2. Install curved anchor (F) of spring around long leg (E) of bracket and straight anchor (G) of spring in shield hole (H).

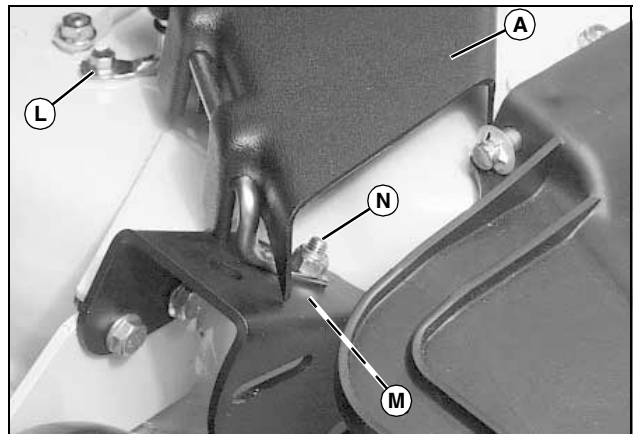
3. Start mounting bracket (B) at a 45° angle inside left shield mounting slot to insert spring straight anchor (G) into shield hole (H).

4. Swing mounting bracket (B) up into shield slots until short leg end (D) locks into right slot pivot hole.



MIF

5. Fasten blower assembly belt guide (I) to original mower deck bolts (J) with original flange nuts (K) (removed earlier with original right belt shield).



M96317

6. Fasten belt shield (A) to mower deck with M8x16 self-tapping bolt (L) from top through long leg, M8x20 carriage bolt (M) from underneath, and M8 lock nut (N) on top through short leg.

7. Check for proper operation of hinge spring and make sure shield does not contact spindle brake at any point. If it contacts spindle brake, widen notch slightly.

Install 48C Baffle Kit

NOTE: Power flow brackets should be installed before this baffle.

Prepare Mower Deck

1. Remove Power Flow and mower deck from tractor as instructed in operator's manual.

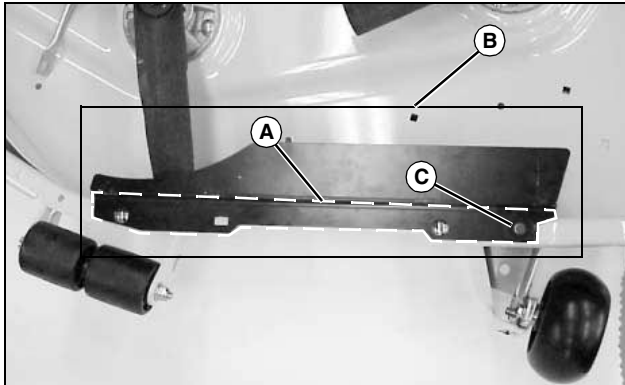


CAUTION: Avoid injury! Mower blades are sharp. Always wear gloves when handling mower blades or working near blades.

2. Turn mower deck over and clean underside of mower deck.

ASSEMBLY

NOTE: If mower deck is equipped with a European Baffle Kit (A-dotted line) or Leaf Blowout Kit (B-solid line), it may be necessary to drill an additional hole in order to attach wire form support to mower deck.



MX4537

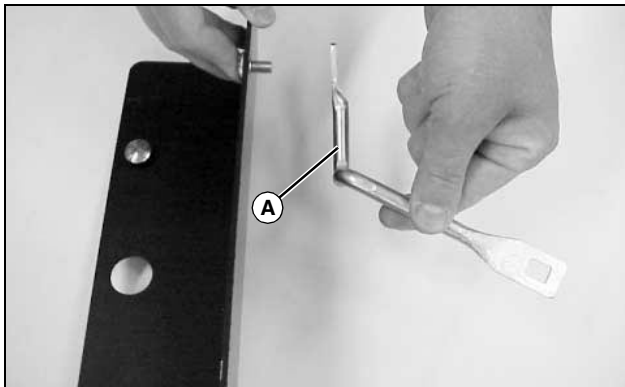
3. Check baffle (A) or plate (B) for hole at (C).

- If hole is present, continue with Installation procedure.
- If hole is not present, mark hole location on underside of plate/baffle using existing hole in deck lip as a template.

Remove baffle/plate and drill one 9 mm (3/8 inch) hole at mark. Deburr if necessary.

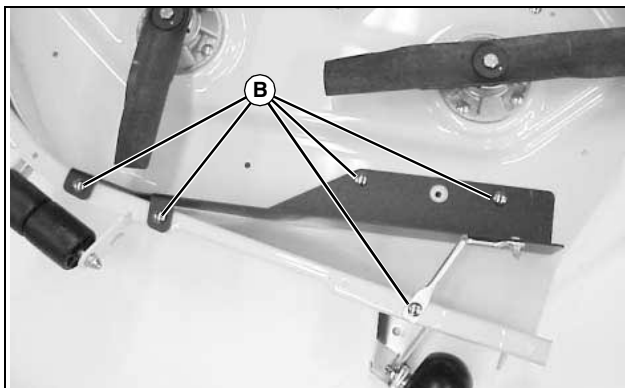
Do not install baffle/plate back onto deck lip at this time.

Installation



MX4534

1. Install short leg of wire form (A) on baffle with one M8x20 bolt and M8 lock nut. Do not tighten.

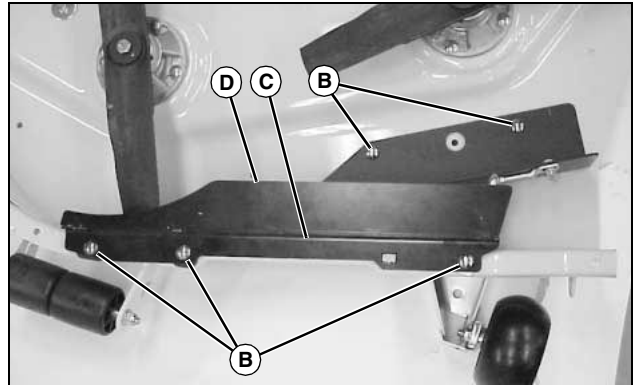


MX4535

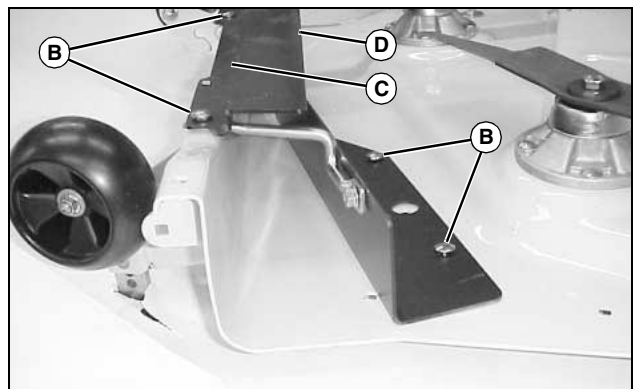
2. Position baffle on mower deck, aligning holes in baffle and wire form with

existing holes on mower deck.

- If European baffle kit or leaf blowout kit is not being installed, fasten baffle using five M8x20 bolts (B) and M8 lock nuts.



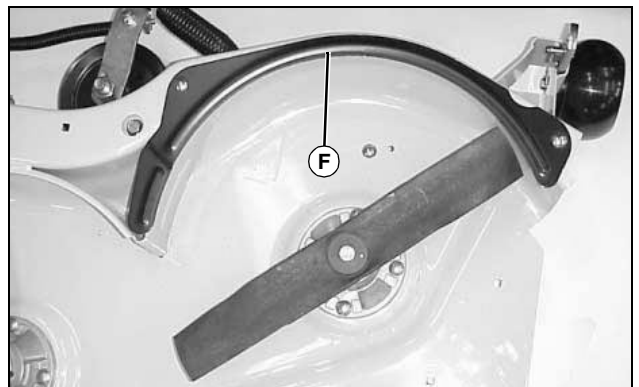
MX4539



MX4540

- If European baffle kit or leaf blowout kit was originally installed, position original baffle (C) or plate (D) over new baffle and fasten using five M8x20 bolts (B) and M8 lock nuts.

NOTE: When using 48 QT Power Flow, Anti-Blowout Plate (F) included with power flow must be installed. Make sure bracket has not been bent.



MX4536

3. Install mower deck.

4. Install power flow.

PREPARING MACHINE

Preparing Machine

Remove Mulch Kit



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

Mulch kit is not compatible with installation of blower assembly. If mulch kit is installed on mower, removal of mulch plug, attaching hardware and mulching blades is required. See installation instructions shipped with mulch kit.

Install Proper Mower Blades

IMPORTANT: Avoid damage! When replacing mower blades, always use genuine John Deere Service Parts.

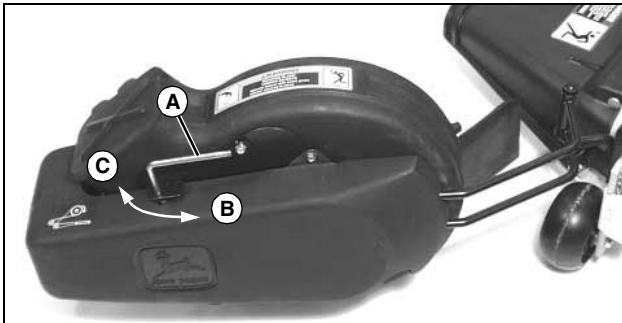
- For best performance, always use correct mower blade for job being performed.
- Always follow safety and service instructions in tractor operator's manual when changing mower blades.

For maximum performance from blower assembly, install correct mower blades for application:

- **Mulching Blades** - Not for use with blower assembly.
- **Standard Blades** - Standard blades are designed for bagging, side discharging, and all mowing conditions.

Installing

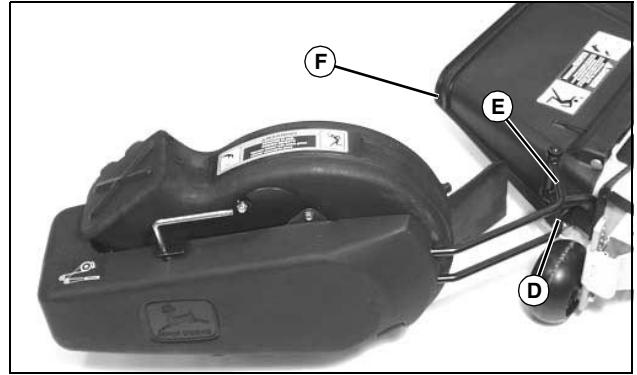
Install Blower Assembly



M94163a

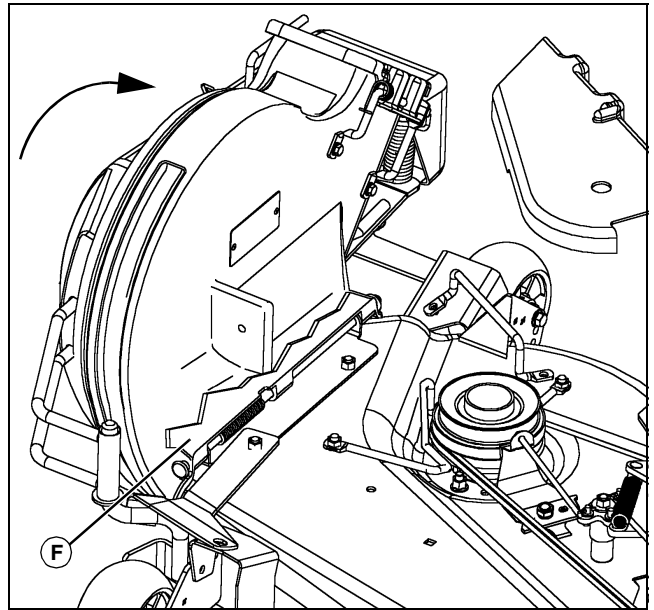
1. Check position of locking handle (A). Move handle to unlocked position (B).

- (B) - unlocked position
- (C) - locked position



M94163a

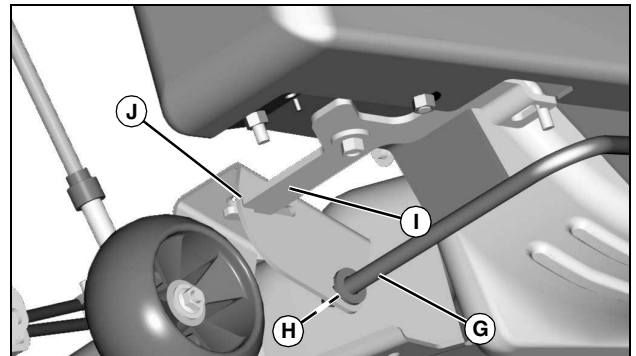
2. Install blower assembly mounting hinge (D) onto deck mounting bracket pin (E) so assembly is forward of discharge chute (F).



MX96309C

Picture Note: Discharge chute (F) is cutaway for clarity. Do not remove chute for this procedure.

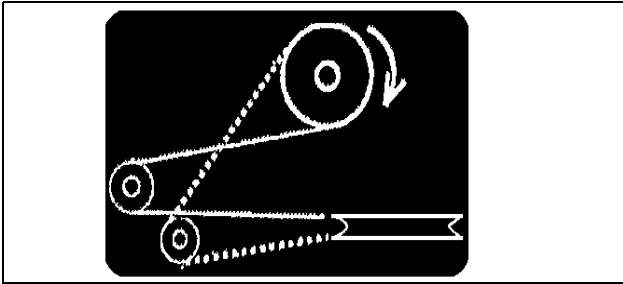
3. Lift discharge chute (F) and swing blower assembly into mower deck discharge area.



M96310

4. At right-rear gage wheel bracket, insert support rod (G) into hole (H) of bracket and align locking lever (I) with bracket slot (J).

INSTALLING

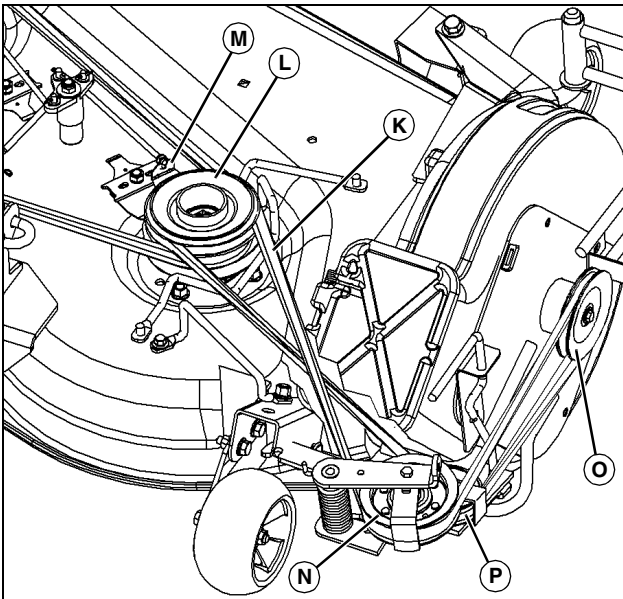


M94151

5. Locate belt routing label on belt shield left, top-rear corner.

6. Hold blower assembly securely against mower deck discharge area during this procedure.

7. Hold belt shield up.

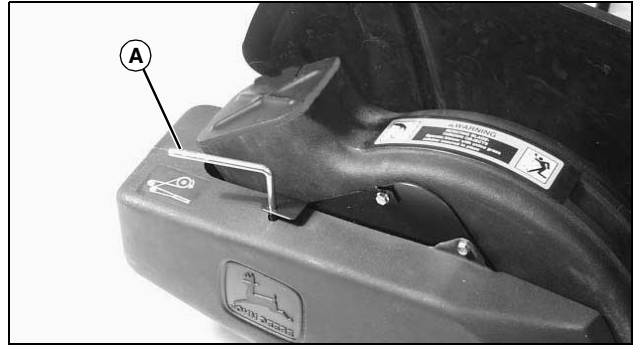


MX96309B

8. Install blower assembly drive belt (K) into top sheave (L). Make sure drive belt is fully seated in top sheave, and not contacting brake (M).

9. For proper fan rotation, the drive belt must be installed:

- a. from deck top sheave (L),
- b. to blower top idler (N),
- c. to top of drive sheave (O),
- d. to bottom idler (P),
- e. back to mower deck top sheave (L).



M94165a

10. Move locking handle (A) to lock position.

Adjust Mower Deck

After material collection system is completely installed, adjust cutting height and mower level side-to-side and front-to-rear as described in tractor operator's manual. Then level blower assembly. See Level Blower Assembly below.

Level Blower Assembly

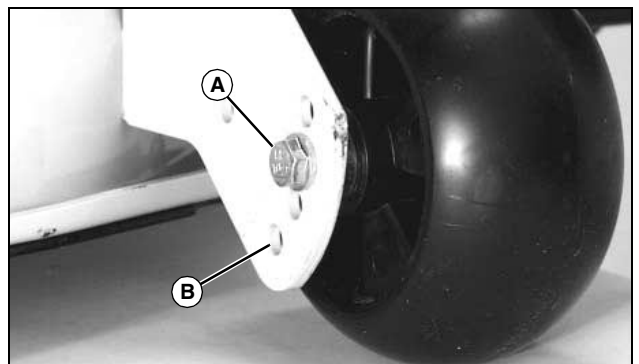
IMPORTANT: Avoid damage! Level the blower assembly after each installation to prevent scuffing and to provide adequate support for the unit while traveling over the mowing area.

1. Adjust cutting height and level mower deck side-to-side and front-to-rear as described in tractor operator's manual.

2. Adjust double sheave spindle brake as described in tractor operator's manual.

NOTE: If desired pre-set cutting height is above 63.5 mm (2.5 in.), use lowest hole (B) of each gage wheel bracket.

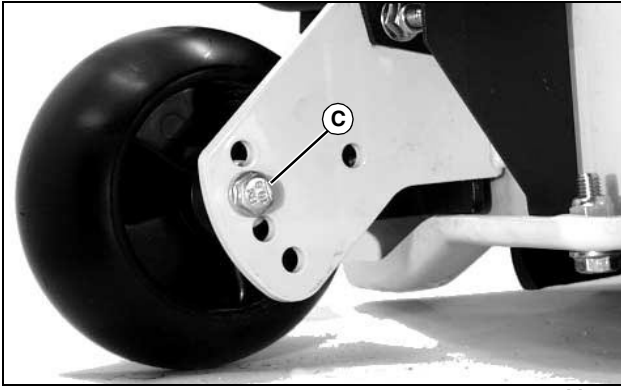
3. Lower mower deck to pre-set cutting height.



M96319

4. Adjust right-rear gage wheel stud (A) to roll on ground.

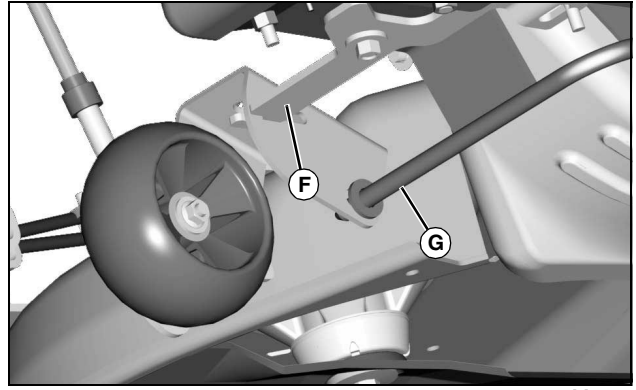
REMOVING AND STORING



M96318

5. Adjust right-front gage wheel stud (C) to same adjustment hole setting as rear gage wheel stud (A).

6. Verify that both gage wheels roll on ground and blower assembly is level.



M96310

3. Swing blower assembly outward to disengage locking lever (F) and support rod (G) from rear mounting bracket.

Removing and Storing

Remove Blower Assembly

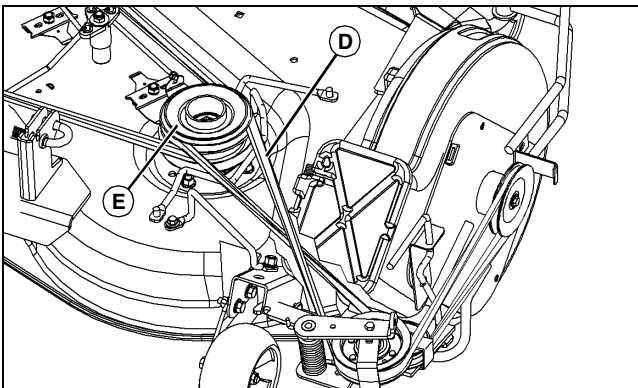
NOTE: It is not necessary to remove anti-blowout plate from mower deck when removing blower assembly.



M94163a

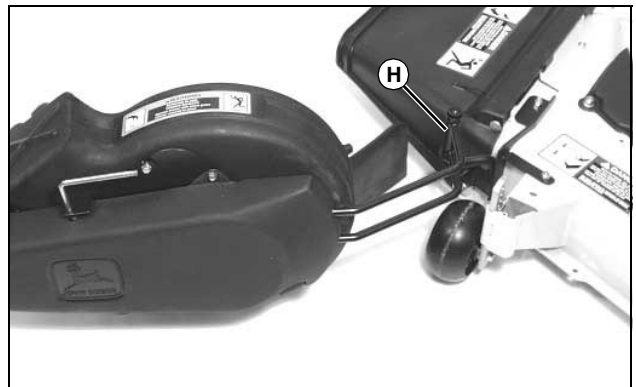
1. Move locking handle (A) to unlocked position (B).

- (B) - Unlocked position
- (C) - Locked position



MX96309B

2. Raise and hold belt shield up (not shown) while removing blower assembly drive belt (D) from deck top sheave (E).



M94163a

4. Lift blower assembly off mounting bracket pin (H).

5. Make sure discharge chute spring tension holds it down in proper discharge position.

Storing Safety



CAUTION: Avoid injury! 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.
- 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.

Storing Blower Assembly Safely

1. Remove blower assembly from mower deck.

IMPORTANT: Avoid damage! Grass build-up, if allowed to dry out, may break off into small, hard pieces and be propelled inside blower assembly. Premature failure may result.

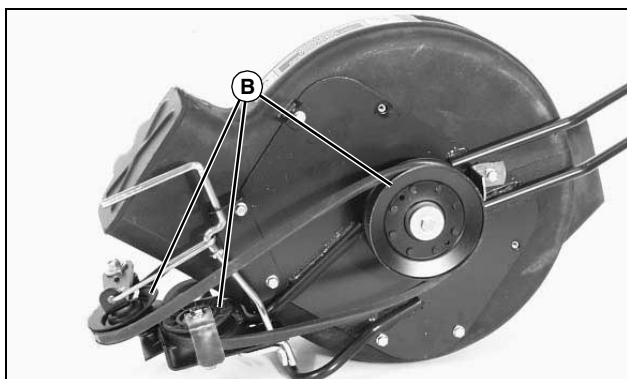
2. Clean interior and exterior of blower assembly.

OPERATING



M97581

3. Remove attaching hardware and belt shield (A).



M94172a

4. Remove all grass accumulation from around idlers (B) and drive belt.

5. Remove and inspect drive belt. Replace belt if necessary.

6. Store blower assembly in a clean, dry area. It is best to enclose it in its original shipping carton.

Operating

Using the Blower Assembly

Starting Blower Assembly

Whenever tractor PTO is engaged to start mower deck, blower assembly will automatically start. (See tractor operator's manual for PTO operating instructions.)

Stopping Blower Assembly

Whenever tractor PTO is disengaged to stop mower deck, blower assembly will automatically stop.

Checking for Plugging While Bagging



CAUTION: Avoid injury! To help prevent injury from mower blades, do not unplug discharge chute while engine is running. Shut off engine first.

Check flow indicator on Power Flow chute periodically for any indication of loss of air flow.

If there is a trail of clippings behind mower or clippings blow to side, check for plugged chute, full grass, or problems with blower assembly.

If grass builds up in front of mower deck discharge chute, check for

plugged Power Flow chute or problems with blower assembly.

Dismounting to Inspect or Unplug Material Collection System



CAUTION: Avoid injury! To help prevent personal injury, follow steps below before dismounting to inspect or unplug any part of material collection system.

Before dismounting to inspect or unplug any part of material collection system, perform these steps:

- Stop vehicle.
- Lock park brake.
- Disengage PTO.
- Move throttle lever to rear (slow) position.
- Stop engine. Remove key.
- Wait for all moving parts to stop.

Service

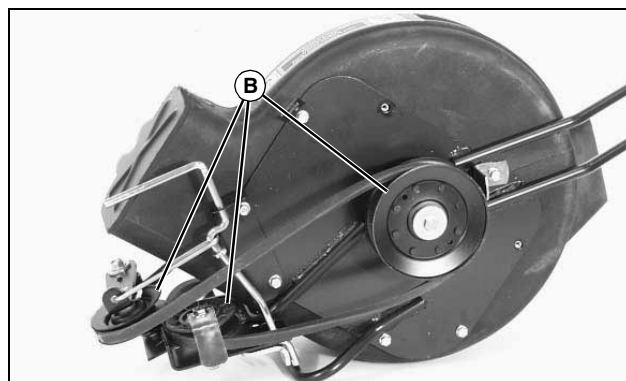
Removing Blower Drive Belt

1. Remove blower assembly from mower deck.



M97581

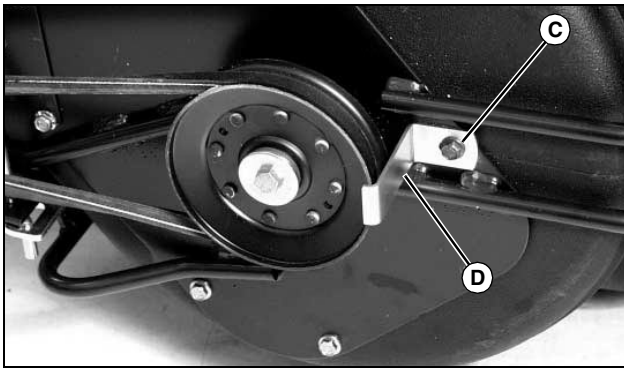
2. Remove attaching hardware and belt shield (A).



M94172a

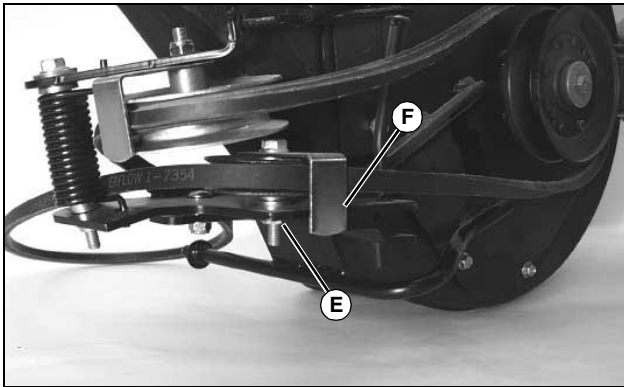
3. Remove all grass accumulation from around three idlers (B) and drive belt.

SERVICE



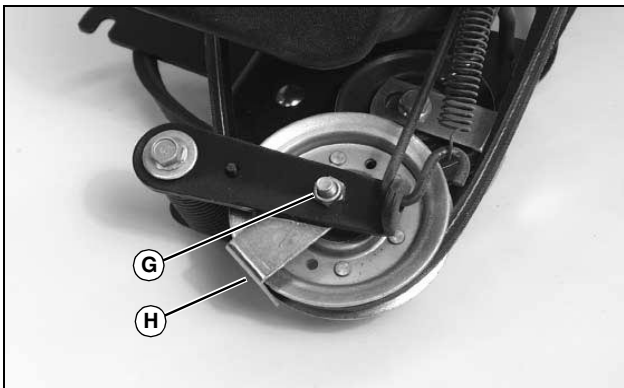
M96329

4. Loosen cap screw (C) just enough to move belt guide (D) away from sheave to remove belt.



M97589

5. Loosen lower idler nut (E) just enough to move belt guide (F) away from idler to remove belt.

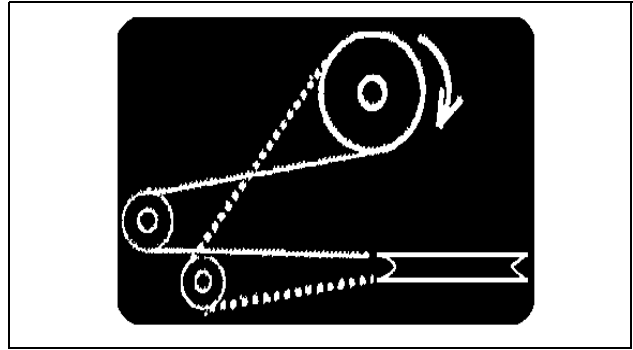


M97590

6. Loosen upper idler nut (G) just enough to move belt guide (H) away from upper idler to remove belt.

7. Remove belt from blower idlers and discard belt appropriately.

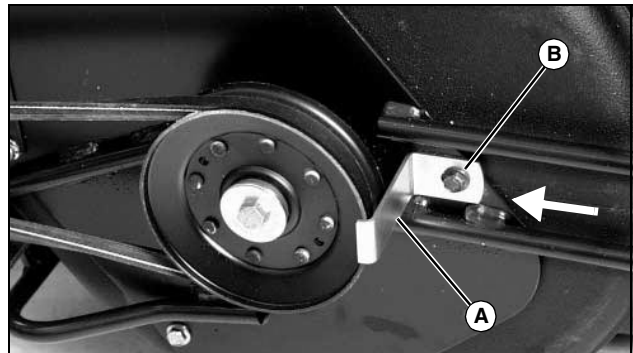
Installing Blower Drive Belt



M94151

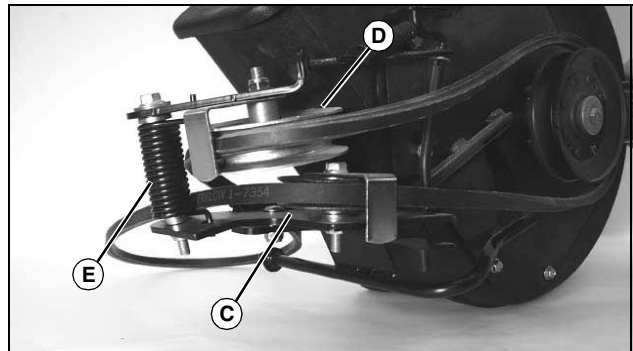
NOTE: Locate belt routing diagram on blower assembly belt shield. This diagram illustrates proper belt installation. If belt is not installed correctly, it is possible that blower assembly fan will rotate backwards.

1. Install belt on impeller sheave.



M96329

2. Move belt guide (A) to end of slot and perpendicular to outer edge of sheave. Maintain this positioning while tightening cap screw (B) completely.

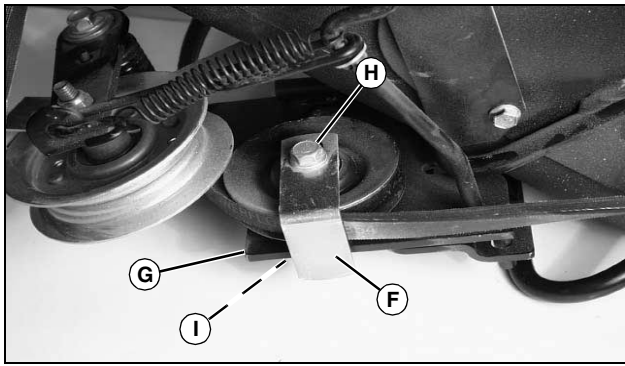


M97589

3. Route belt:

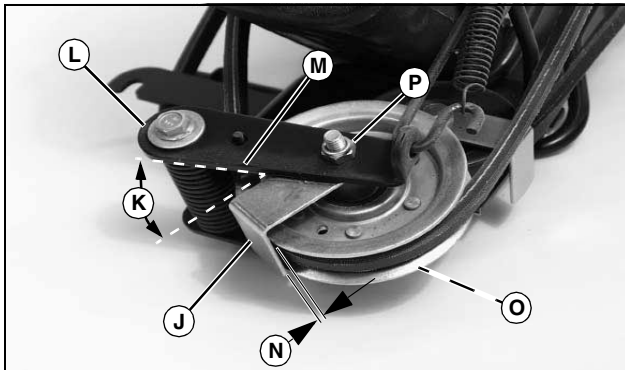
- around lower idler (C) with belt "V" toward groove of idler,
- around upper idler (D) with belt "face" toward flat of idler,
- then go between spring assembly (E) and idlers toward mower deck top sheave.

SERVICE



M97592

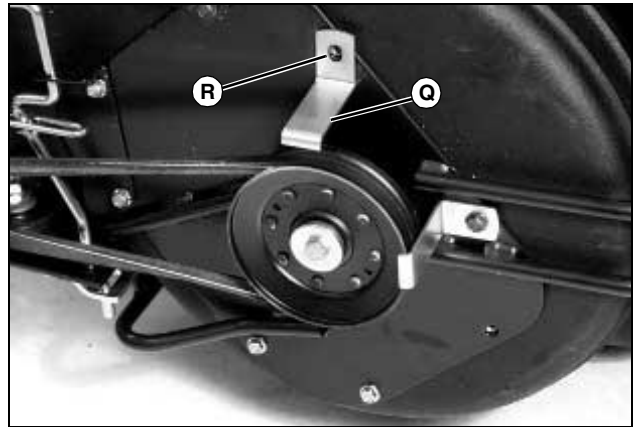
4. Align belt guide (F) at lower idler so it is parallel with edge of mounting plate (G) as shown.
5. Adjust clearance between belt guide and outer edge of idler to 3 mm (1/8 in.).
6. Hold bolt head (H) stationary with wrench and tighten nut (I) completely.



M97591

7. Align belt guide (J) at upper idler so it is at a 60° angle (K) 58 mm (2.2 in.) from center of bolt (L) to left edge of guide to rear edge of tension arm (M).
8. Adjust clearance between inside surface of belt guide and outer edge of idler (N) to 3 mm (1/8 in.).
9. Hold belt guide and bolt head (O) stationary with wrench and tighten nut (P).
10. With belt shield removed, install blower assembly on mower deck.

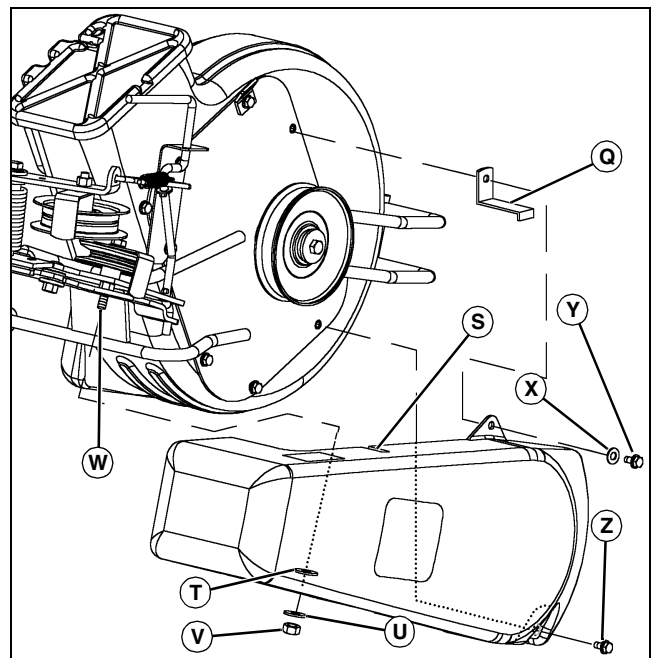
NOTE: Before installing belt shield, make sure all belt guides do not contact drive belt or idlers when belt is tensioned.



M96330

11. When installing belt shield and hardware, bracket (Q) goes on inside of shield. It should align with threaded hole (R) and top shield hole. Flat washer and cap screw (removed earlier) are installed on outside of shield.
12. After shield is installed, push bracket (Q) down so top of slot rests on shield cap screw.

NOTE: Do not tighten any hardware until all hardware is installed.



M96333

13. Install shield and all fastening hardware as originally installed:
 - a. Shield top slot (S) goes over locking handle shaft.
 - b. Washer (T) goes on inside of shield, washer (U) and lock nut (V) go on outside of shield - all three and bottom shield hole are installed on cap screw (W).
 - c. Install top shield hole so bracket (Q) is on inside of shield with washer (X) and cap screw (Y) on outside of shield.
 - d. Cap screw (Z) goes on outside of bottom-front shield hole.
 - e. Tighten all hardware.

TROUBLESHOOTING

Troubleshooting

Using Troubleshooting Chart

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

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

If	Check
Blower Assembly Will Not Turn On	Belt worn or broken.
Blower Assembly Plugs	Ground speed too fast for grass conditions. Locking handle not fully engaged. Belt worn. Belt installed incorrectly. Mower blades not correct type for application.
Blower Assembly Performance is Poor	Ground speed too fast for grass conditions. Locking handle not fully engaged. Belt worn. Mower blades not correct type for application.

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

1. Refer to your attachment and machine operator manuals.
2. Contact your John Deere dealer with unanswered questions.
3. Call the John Deere Customer Communications Center.
 - Call 1-800-537-8233 and provide product serial number and model number.

Replacement Parts

Service Literature

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

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

Parts

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

Part numbers may change, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

When you order parts, your John Deere dealer needs your machine serial number and engine serial number. These are the numbers that you recorded in the Product Identification section of this manual.

Part Numbers

Item	Part Number
Blower Assembly Drive Belt	M138974
Mower Blades - Standard	M145476

(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

John Deere Quality Statement

John Deere Quality Continues with Quality Service

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