



# Bobcat®

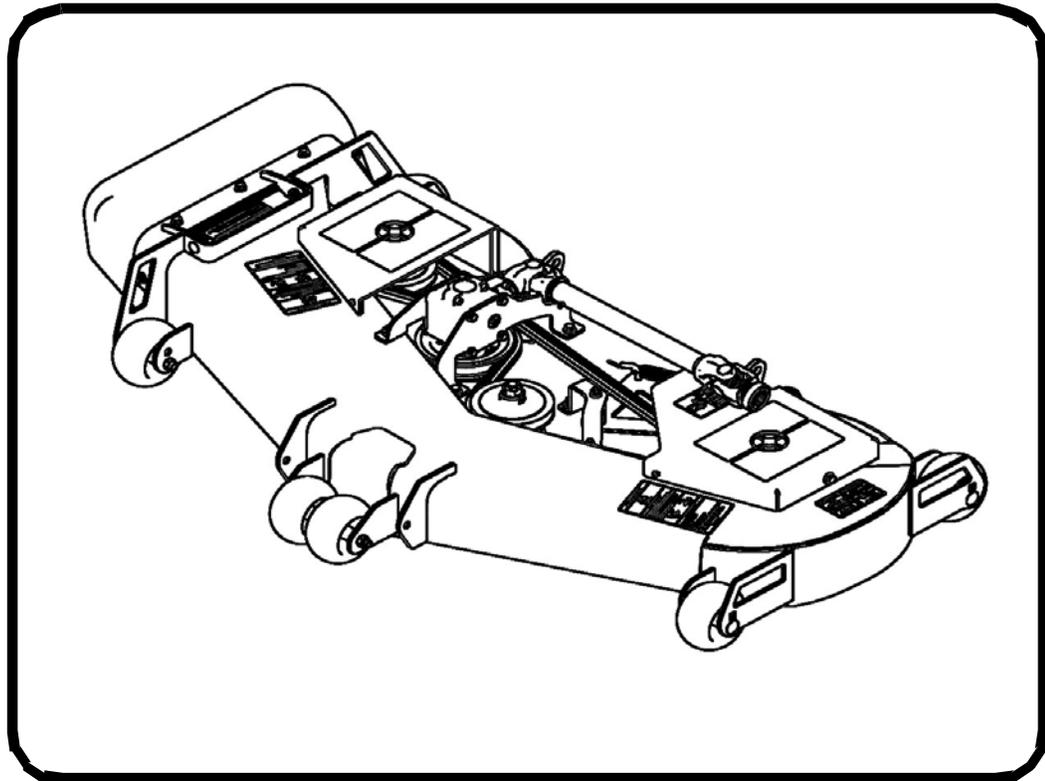
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## Service Manual

# Mid-Mount Finish Mower

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**(Mower Mid MM54) S/N AB4D00101 & Above**  
**(Mower Mid MM66) S/N AB4C00101 & Above**



Product: Bobcat Mid-Mount Finish Mower Service Repair Workshop Manual  
Full Download: <https://www.arepairmanual.com/downloads/bobcat-mid-mount-finish-mower-service-repair-workshop-manual/>

Sample of manual. Download All 62 pages at:  
<https://www.arepairmanual.com/downloads/bobcat-mid-mount-finish-mower-service-repair-workshop-manual/>

# MAINTENANCE SAFETY



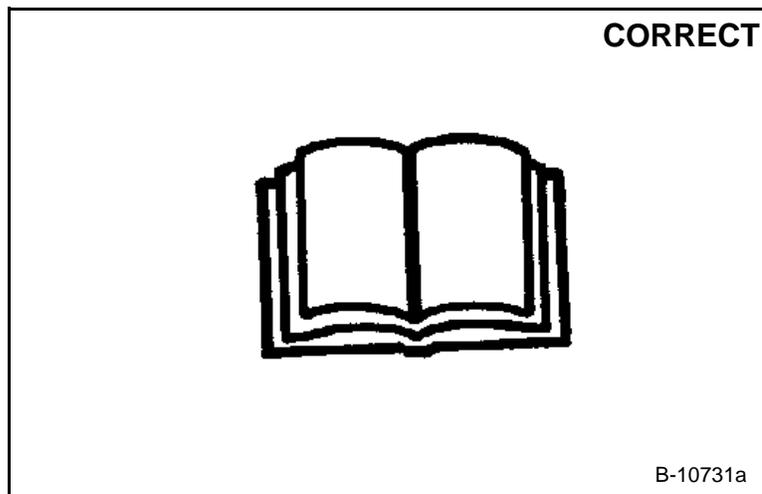
## WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



-  Never service attachments / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.



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**MAIN  
FRAME**

**SPECIFICATIONS  
AND  
SCHEMATICS**

## REFERENCE INFORMATION

Write the correct information for YOUR mid-mount finish mower implement in the spaces below. Always use these numbers when referring to your mid-mount finish mower.

Mid-Mount Finish Mower Serial Number \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

YOUR BOBCAT® DEALER:

ADDRESS:

PHONE:

\_\_\_\_\_  
Bobcat Company  
P.O. Box 128  
Gwinner, ND 58040-0128

Bobcat Company Europe  
Drève Richelle 167  
B-1410 WATERLOO  
Belgium

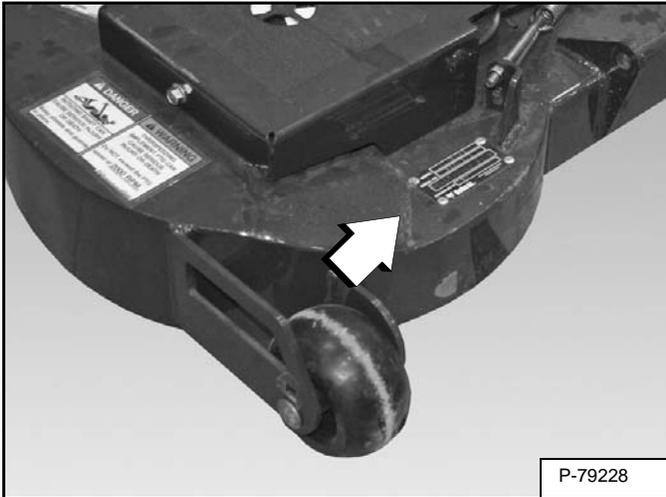


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## SERIAL NUMBER LOCATION

### Implement Serial Number

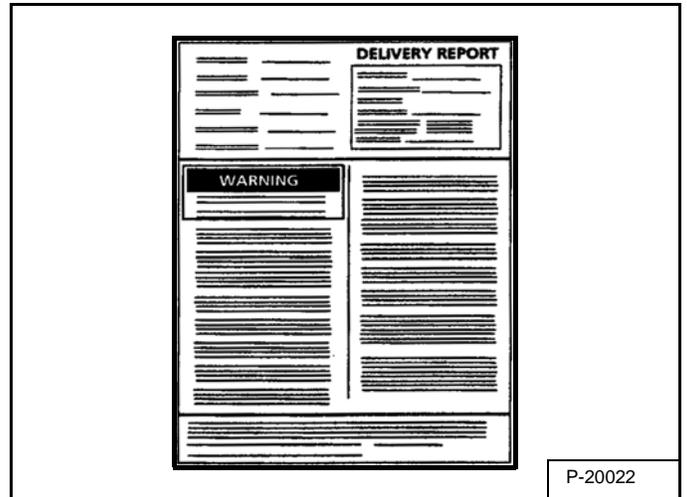
Figure 1



Always use the serial number of the mid-mount finish mower when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [Figure 1].

## DELIVERY REPORT

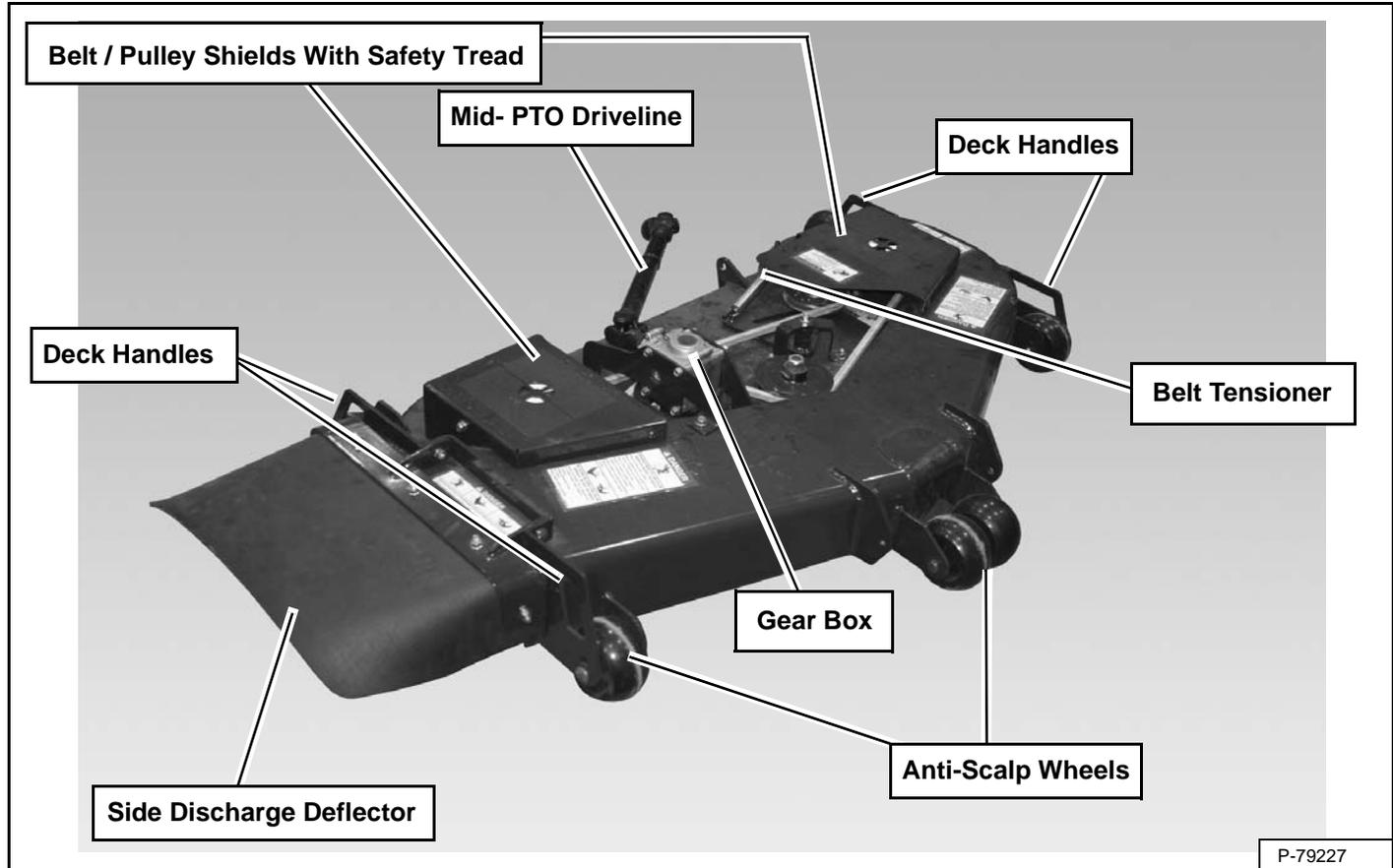
Figure 2



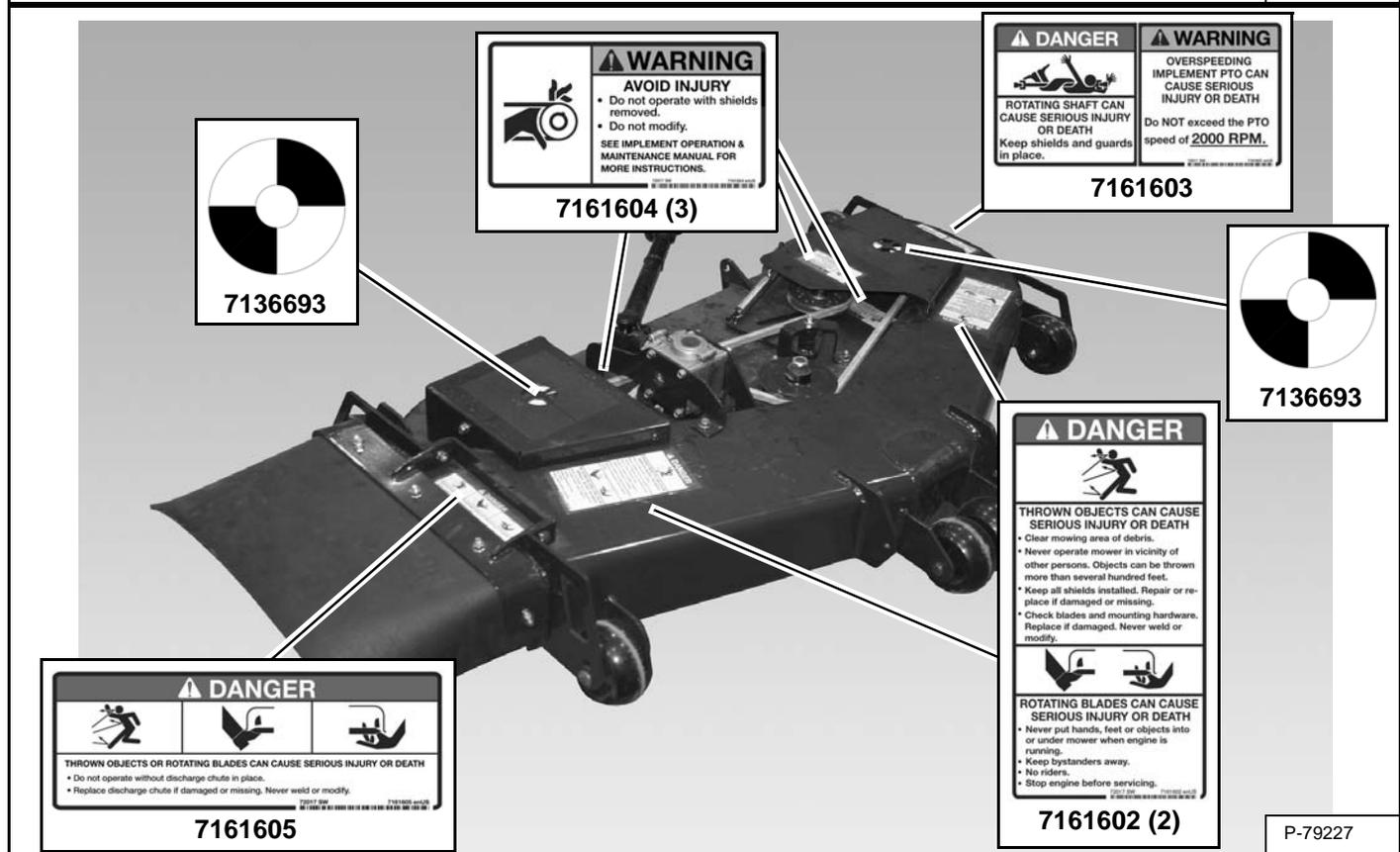
The delivery report must be filled out by the dealer and signed by the owner or operator when the mid-mount finish mower is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 2].

**IDENTIFICATION AND MACHINE SIGNS (DECALS)**

**Mower Mid MM54 (54 In.)**



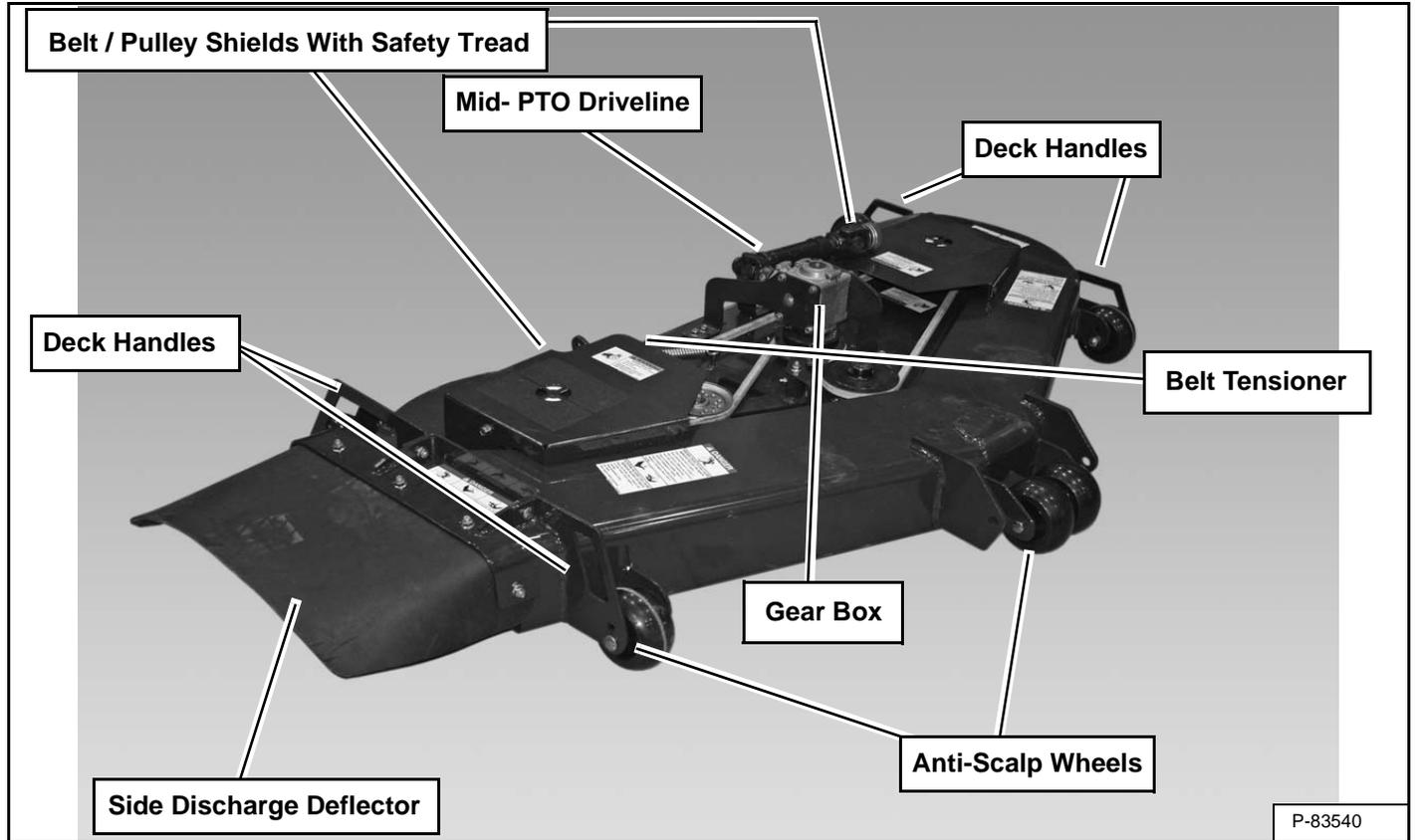
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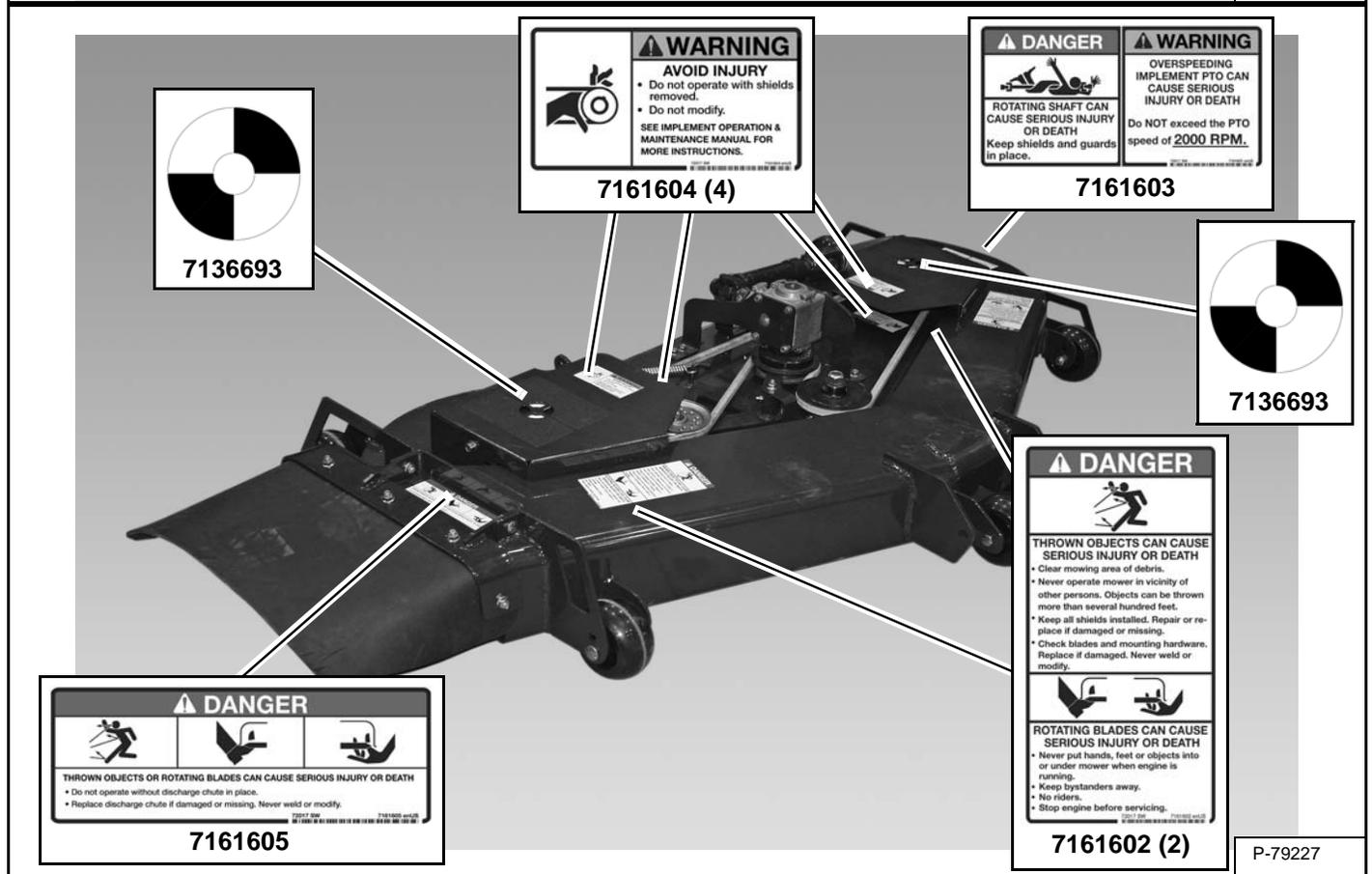
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IDENTIFICATION AND MACHINE SIGNS (DECALS) (CONT'D)

Mower Mid MM66 (66 In.)



P-83540



P-79227



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## SAFETY AND MAINTENANCE

## SAFETY AND MAINTENANCE

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## TROUBLESHOOTING

### Chart

TROUBLESHOOTING THE MID-MOUNT FINISH MOWER		
PROBLEM	CAUSE	CORRECTION
Poor cutting.	Travel speed too fast.	Reduce travel speed.
	Damaged motor	Repair or replace motor.
	Low blade RPM.	Increase RPM.
	Blade belt slipping	Adjust belt to correct tension.
	Blades dull.	Sharpen or replace the blades.
Blades will not rotate.	Worn or broken blade belt.	Replace belt.
	PTO driveline disconnected.	Connect PTO driveline.
Vibration.	Build up of material on the bottom of the mower deck.	Clean the bottom of the mower deck.
	Loose or cracked hardware.	Repair or replace as needed.
	Blades worn or broken.	Replace the blades.
	Blade spindles bent.	Replace spindles.
	Blades not balanced.	Balance or replace blades.



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## LUBRICATING THE IMPLEMENT

### Lubrication Locations



#### AVOID INJURY OR DEATH

If equipped with a loader or implement, always have the attachment or implement fully lowered on the ground. Stop the engine and engage the parking brake before doing any maintenance to the compact tractor. Do Not work under raised loader arms or raised implement.

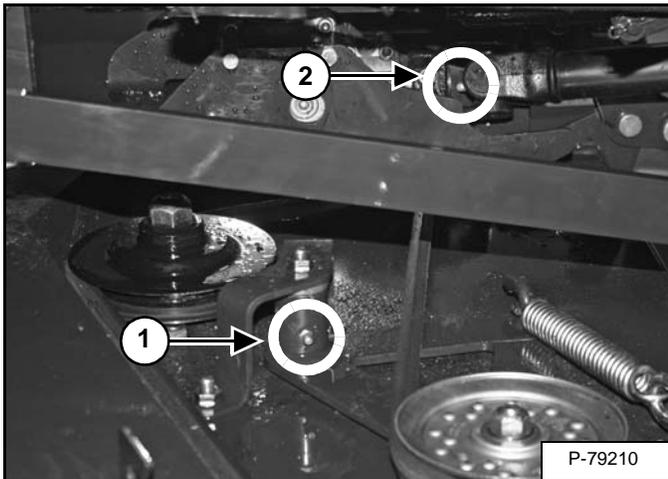
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Lubricate as specified for the best performance of the mid-mount finish mower.

Always use a good quality lithium based multi-purpose grease. Apply lubricant until extra grease shows.

Lubricate the following:

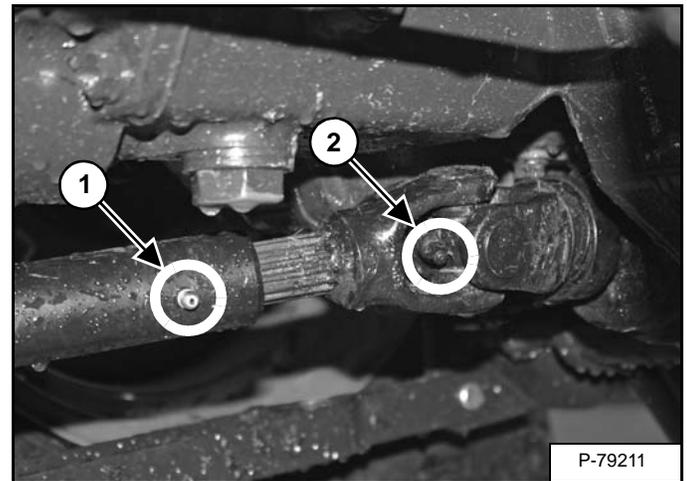
Figure 10-20-1



Belt tension pivot (Item 1) [Figure 10-20-1].

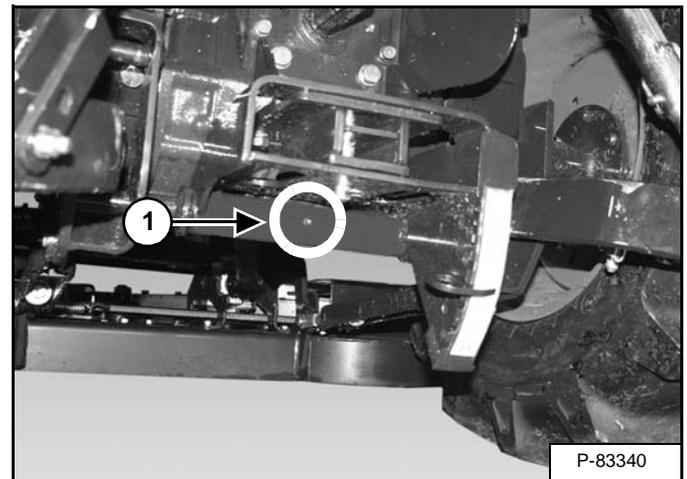
Front of PTO driveline (Item 2) [Figure 10-20-1].

Figure 10-20-2



Two locations (Items 1 & 2) [Figure 10-20-2] at the rear of the PTO driveline.

Figure 10-20-3



Pivot pin on the rear mount (Item 1) [Figure 10-20-3].



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## DRIVE BELT

### Adjusting Belt Tension

**NOTE:** The following illustrations may not show your exact mower as it appears but the procedure is correct.

## WARNING

### AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the loader arms, put the attachment flat on the ground (if equipped).
- Fully lower the implement(s) to the ground (if equipped).
- Lock brake pedals together and engage the parking brake.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt and remove the key.

W-2569-0907

Park the compact tractor / mower on flat level ground.

Fully lower the loader arms and put the attachment flat on the ground (if equipped).

Fully lower the implement(s) to the ground (if equipped).

Lock brake pedals together and engage the parking brake.

Place all controls in neutral and stop the engine.

## WARNING

### AVOID INJURY OR DEATH

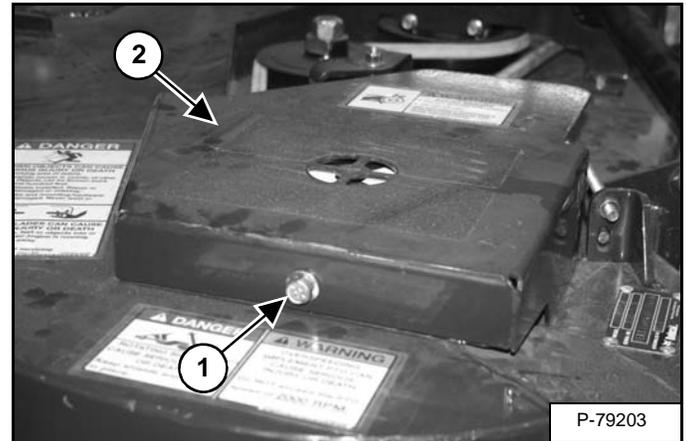
- Disengage the PTO (rear and mid), engage the parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO (rear and mid) for road travel.
- Keep hands, feet and clothing away.

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Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the compact tractor.

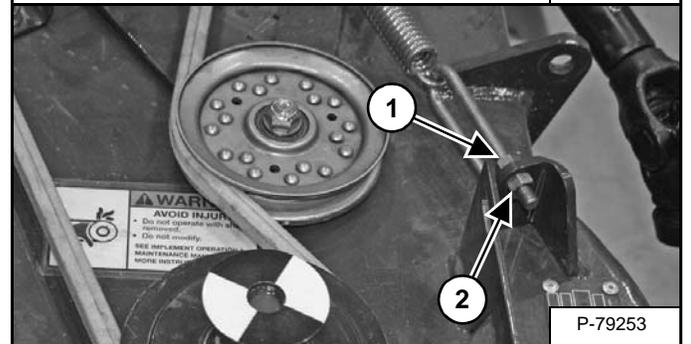
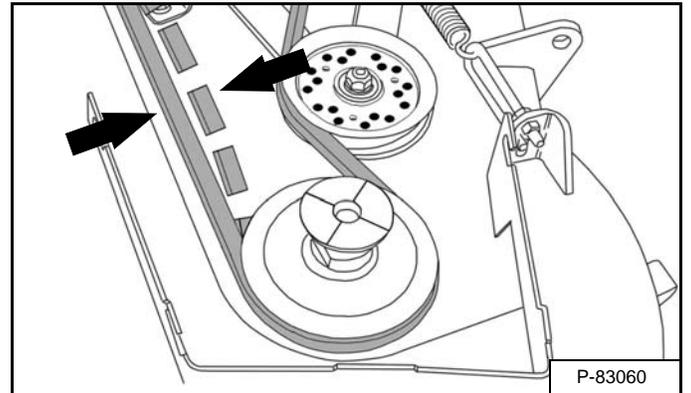
Exit the compact tractor. (See the Mid-Mount Finish Mower Operation & Maintenance Manual for the correct procedure.)

Figure 10-30-1



Remove bolt (Item 1) and remove the belt guard (Item 2) [Figure 10-30-1].

Figure 10-30-2



Loosen jam nut (Item 1), tighten tension nut (Item 2) [Figure 10-30-2] to the desired belt tension.

Check belt tension by pressing forcefully on the belt.

The belt should move between 0.2-0.4 in. (5-10 mm) [Figure 10-30-2].

Once the desired belt tension is obtained, tighten jam nut (Item 1) [Figure 10-30-2].

Install belt guard (Item 2) and bolt (Item 1) [Figure 10-30-1].

## DRIVE BELT (CONT'D)

### Removal And Installation

# ! WARNING

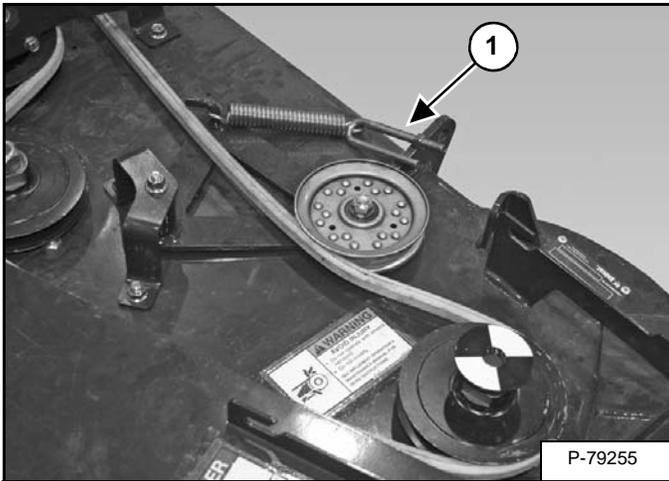
### AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

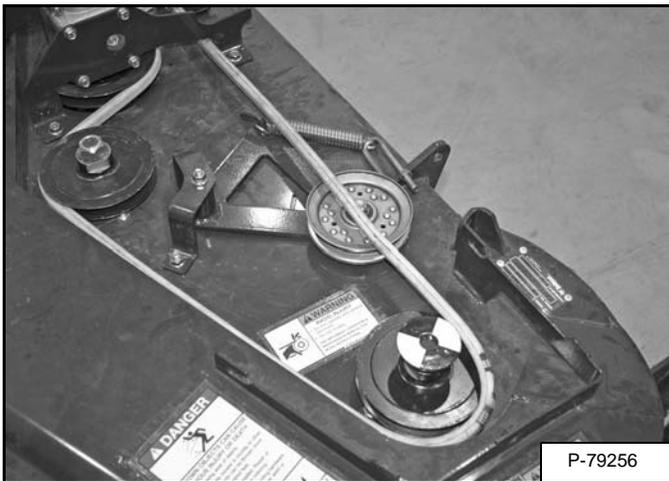
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Figure 10-30-3



Loosen or remove tension bolt (Item 1) [Figure 10-30-3].

Figure 10-30-4



Remove belt from pulleys [Figure 10-30-4].

## Belt Routing

Figure 10-30-5

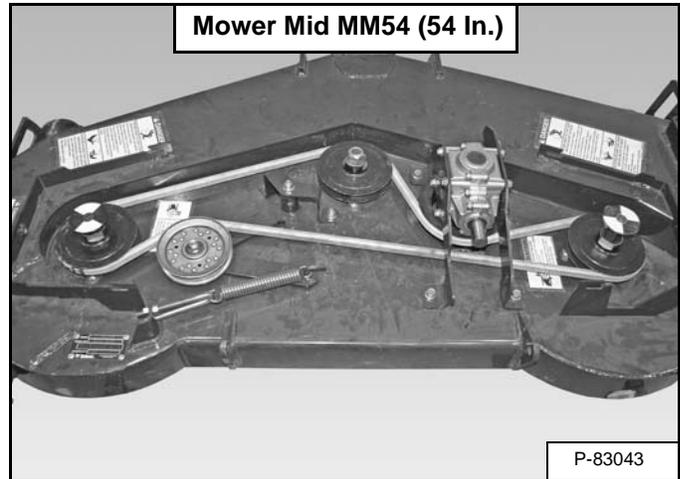
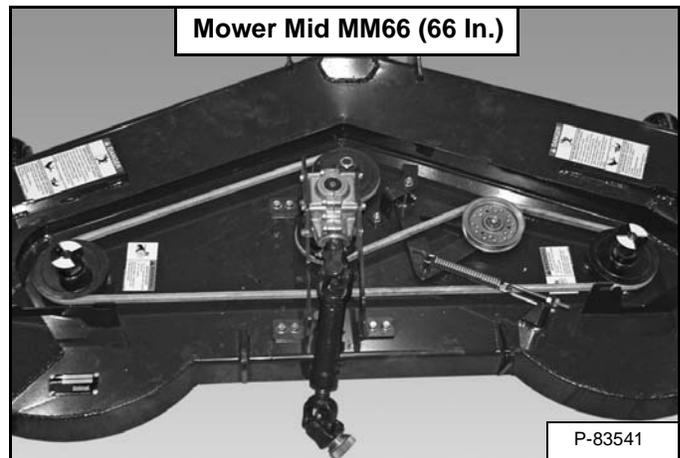


Figure 10-30-6



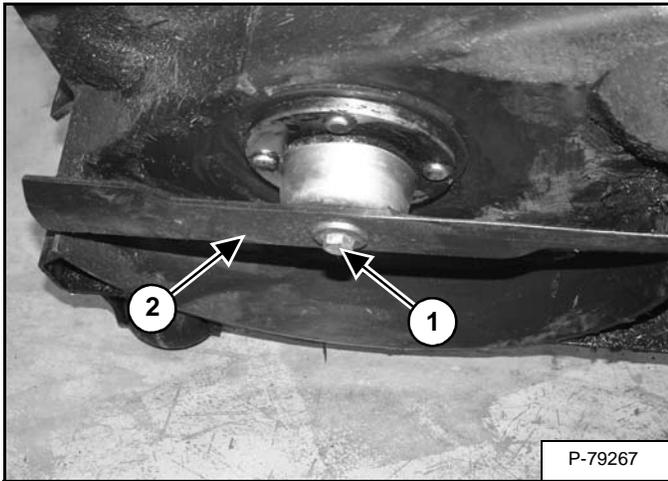
Install the belt as shown in [Figure 10-30-5] or [Figure 10-30-6].

**NOTE:** Adjust belt tension to the recommended belt deflection. (See Adjusting Belt Tension on Page 10-30-1.)

## BLADE

### Removal And Installation

Figure 10-40-1



Remove bolt (Item 1) and blade (Item 2) [Figure 10-40-1].

**Installation:** Tighten bolt to 65-70 ft.-lb. (88-95 N•m) torque.

## Sharpening

### **WARNING**

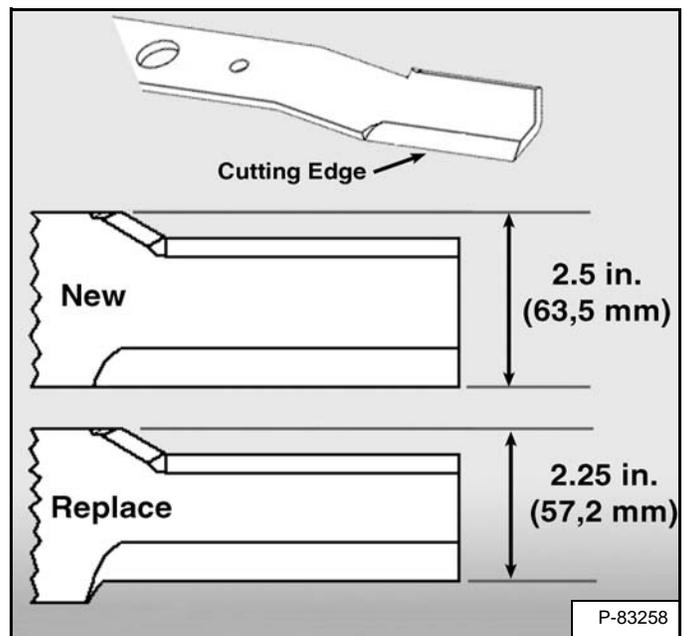
#### AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-0907

Figure 10-40-2



When the cutting edge of the blades become dull, remove the blades. (See Removal And Installation on Page 10-40-1.)

Sharpen at a 28° angle and balance the blades. Replace the blades when they reach a width of 2.25 in (57,2 mm) [Figure 10-40-2].

Always replace all three blades with blades that are equal in weight to prevent vibration. Use only genuine Bobcat replacement blades.

If any vibration in the mower is felt, the blades must be balanced or replaced.



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## MAIN FRAME

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**MAIN  
FRAME**



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## ANTI-SCALP WHEEL

### Removal And Installation

# ! WARNING

### AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the loader arms, put the attachment flat on the ground (if equipped).
- Fully lower the implement(s) to the ground (if equipped).
- Lock brake pedals together and engage the parking brake.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt and remove the key.

W-2569-0907

Park the compact tractor / mower on flat level ground.

Fully lower the loader arms and put the attachment flat on the ground (if equipped).

Fully lower the implement(s) to the ground (if equipped).

Lock brake pedals together and engage the parking brake.

Place all controls in neutral and stop the engine.

# ! WARNING

### AVOID INJURY OR DEATH

- Disengage the PTO (rear and mid), engage the parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO (rear and mid) for road travel.
- Keep hands, feet and clothing away.

W-2568-0907

Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the compact tractor.

Exit the compact tractor. (See the Mid-Mount Finish Mower Operation & Maintenance Manual for the correct procedure.)

# ! WARNING

### AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

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# ! WARNING

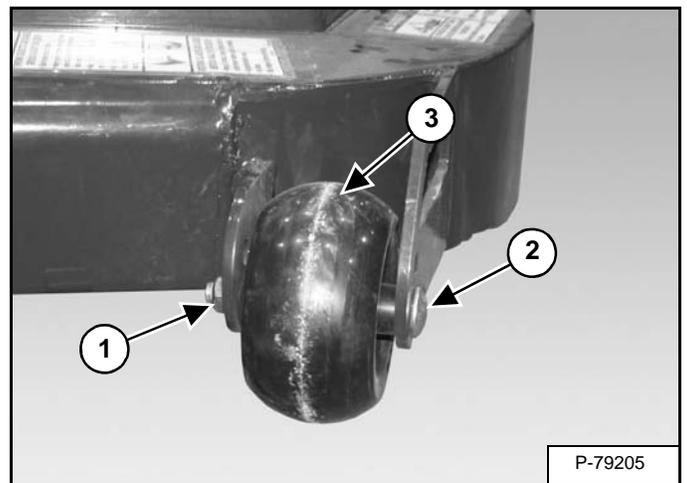
### AVOID INJURY OR DEATH

Never put hands, feet, or objects into or under mower when engine is running.

W-2704-1207

### Single Anti-Scalp Wheels

Figure 20-10-1



Remove nut (Item 1) and bolt (Item 2) [Figure 20-10-1].

Remove wheel (Item 3) [Figure 20-10-1].

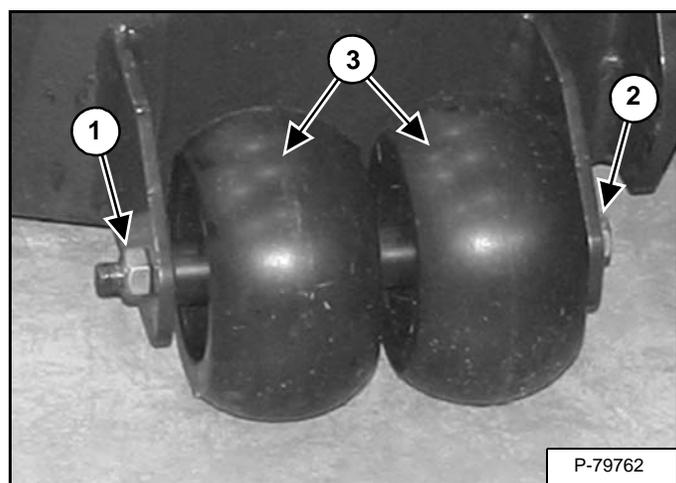
**Installation:** Install the wheel. Align and install bolt (Item 2). Install and tighten nut (Item 1) [Figure 20-10-1] to 25-28 ft.-lb. (34-38 N•m) torque.

## CASTER WHEELS (CONT'D)

### Removal And Installation (Cont'd)

#### *Dual Front Anti-Scalp Wheels*

**Figure 20-10-2**



Remove nut (Item 1) and bolt (Item 2) **[Figure 20-10-2]**.

Remove wheels (Item 3) **[Figure 20-10-2]**.

**Installation:** Install the wheels. Align and install bolt (Item 2). Install and tighten nut (Item 1) **[Figure 20-10-2]** to 25-28 ft.-lb. (34-38 N•m) torque.

## GEARBOX

### Removal And Installation

# ! WARNING

### AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the loader arms, put the attachment flat on the ground (if equipped).
- Fully lower the implement(s) to the ground (if equipped).
- Lock brake pedals together and engage the parking brake.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt and remove the key.

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Park the compact tractor / mower on flat level ground.

Fully lower the loader arms and put the attachment flat on the ground (if equipped).

Fully lower the implement(s) to the ground (if equipped).

Lock brake pedals together and engage the parking brake.

Place all controls in neutral and stop the engine.

# ! WARNING

### AVOID INJURY OR DEATH

- Disengage the PTO (rear and mid), engage the parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO (rear and mid) for road travel.
- Keep hands, feet and clothing away.

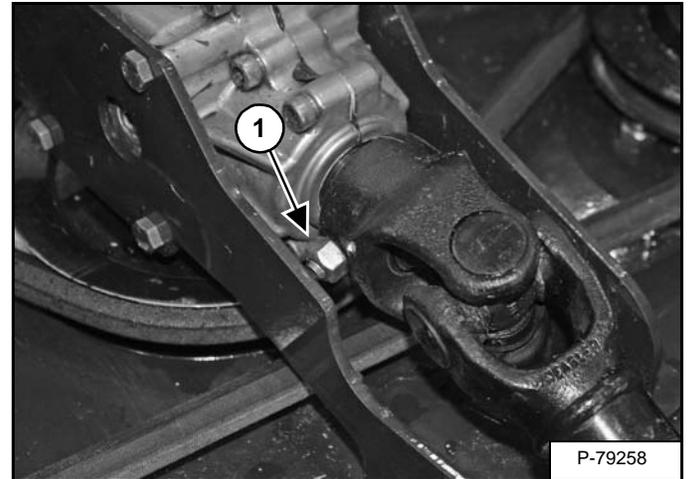
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Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the compact tractor.

Exit the compact tractor. (See the Mid-Mount Finish Mower Operation & Maintenance Manual for the correct procedure.)

Remove the mower from the compact tractor. (See the Mid-Mount Finish Mower Operation & Maintenance Manual for the correct procedure.)

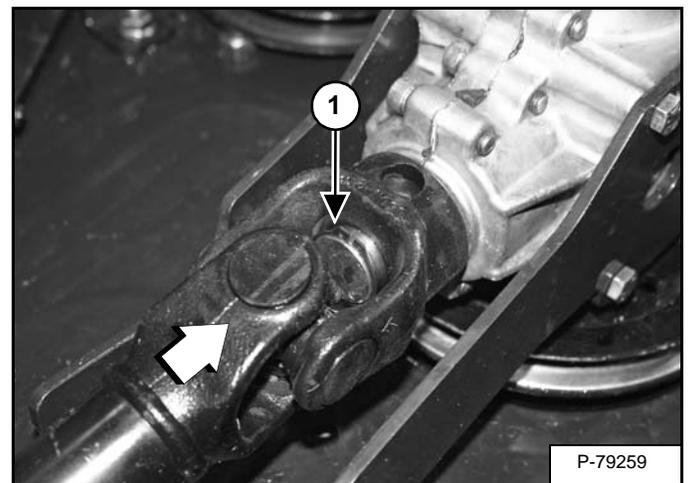
Figure 20-20-1



Remove nut (Item 1) [Figure 20-20-1] and Grade 2 shear bolt.

**Installation:** Align and install the Grade 2 shear bolt and lock nut.

Figure 20-20-2



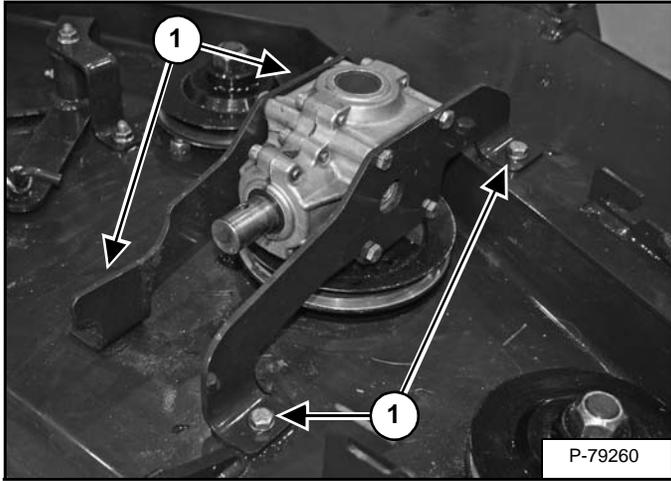
Remove the snap ring (Item 1) [Figure 20-20-2] and remove the PTO driveline from the gear box shaft.

**Installation:** Install the PTO driveline onto the gear box shaft. Install the snap ring (Item 1) [Figure 20-20-2] securing the lower end of the PTO driveline to the gear box shaft.

## GEARBOX (CONT'D)

### Removal And Installation (Cont'd)

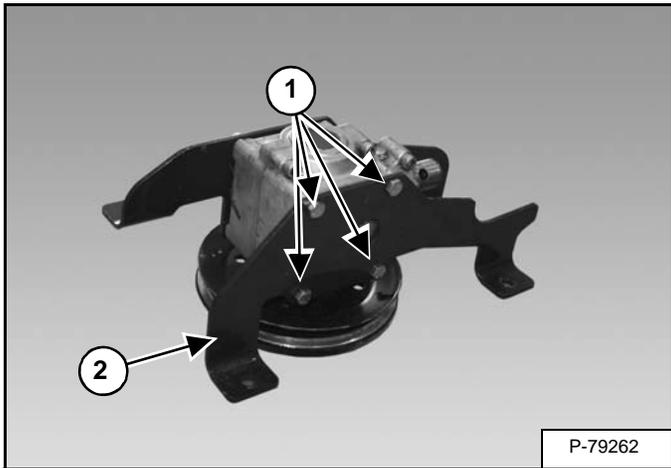
Figure 20-20-3



Remove the bolts (Item 1) [Figure 20-20-3] and remove the gear box from the mower deck.

**Installation:** Install and tighten the bolts to 25-28 ft.-lb. (34-38 N•m) torque.

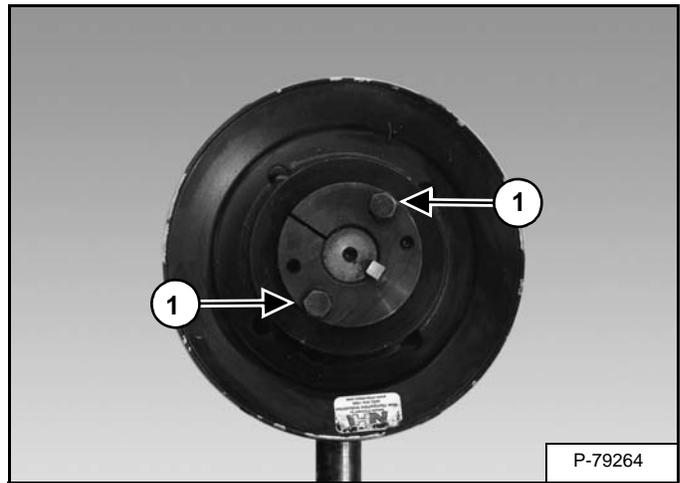
Figure 20-20-4



Remove the four bolts (Item 1) and mounting bar (Item 2) [Figure 20-20-4] from both sides of the gear box.

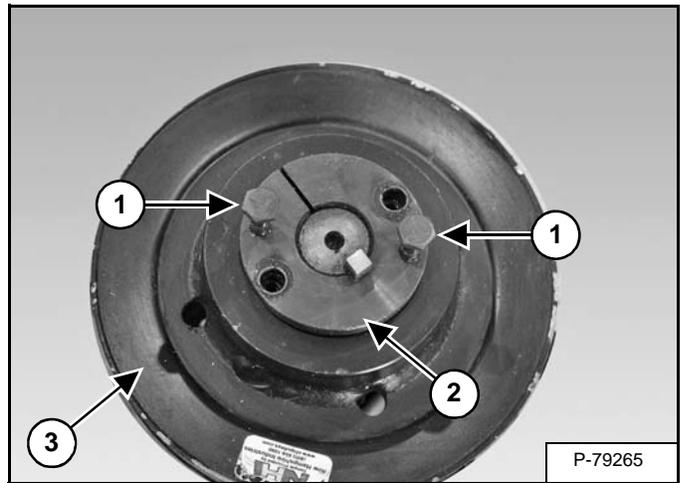
**Installation:** Align the mounting bar (Item 2), install and tighten the four bolts (Item 1) [Figure 20-20-4] to 25-28 ft.-lb. (34-38 N•m) torque on both sides of the gear box.

Figure 20-20-5



Remove the two bolts (Item 1) [Figure 20-20-5].

Figure 20-20-6



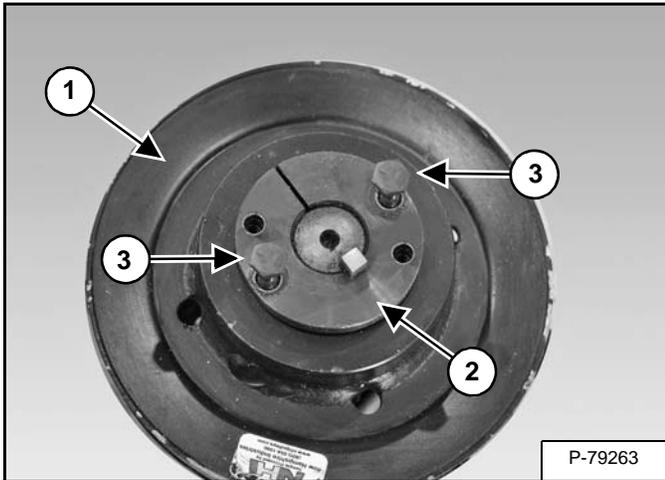
Install the two bolts (Item 1) removed in [Figure 20-20-5] into the two threaded holes of the collar (Item 2) [Figure 20-20-6]. Tighten the two bolts evenly until the collar is free from the shaft. Remove the bolts from the collar.

Remove the pulley (Item 3) [Figure 20-20-6].

## GEARBOX (CONT'D)

### Removal And Installation (Cont'd)

Figure 20-20-7



**Installation:** Place the pulley (Item 1) on the shaft. Align and install the collar (Item 2) on the shaft. Rotate the pulley until the holes of the pulley and the collar are lined up. Install the two bolts (Item 3) [Figure 20-20-7] through the collar and into the pulley. Tighten the two bolts evenly until the collar and the pulley are securely fastened on the shaft.

## GEARBOX (CONT'D)

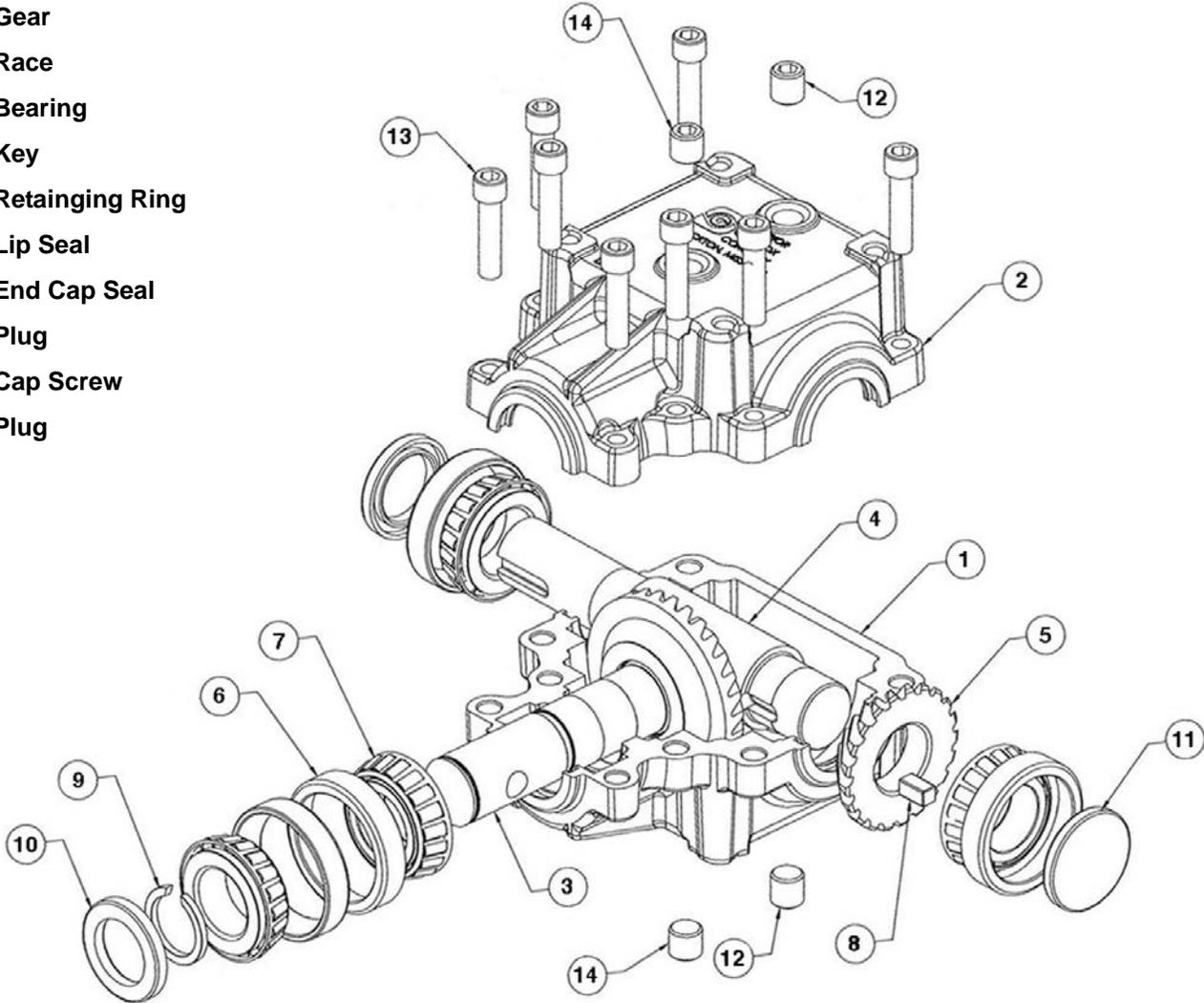
Product: Bobcat Mid-Mount Finish Mower Service Repair Workshop Manual

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### Parts Identification

[mower-service-repair-workshop-manual/](https://www.arepairmanual.com/downloads/bobcat-mid-mount-fin-mower-service-repair-workshop-manual/)

1. Bottom Housing
2. Top Housing
3. Stub Shaft
4. Cross Shaft
5. Gear
6. Race
7. Bearing
8. Key
9. Retaining Ring
10. Lip Seal
11. End Cap Seal
12. Plug
13. Cap Screw
14. Plug



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