



# Bobcat®

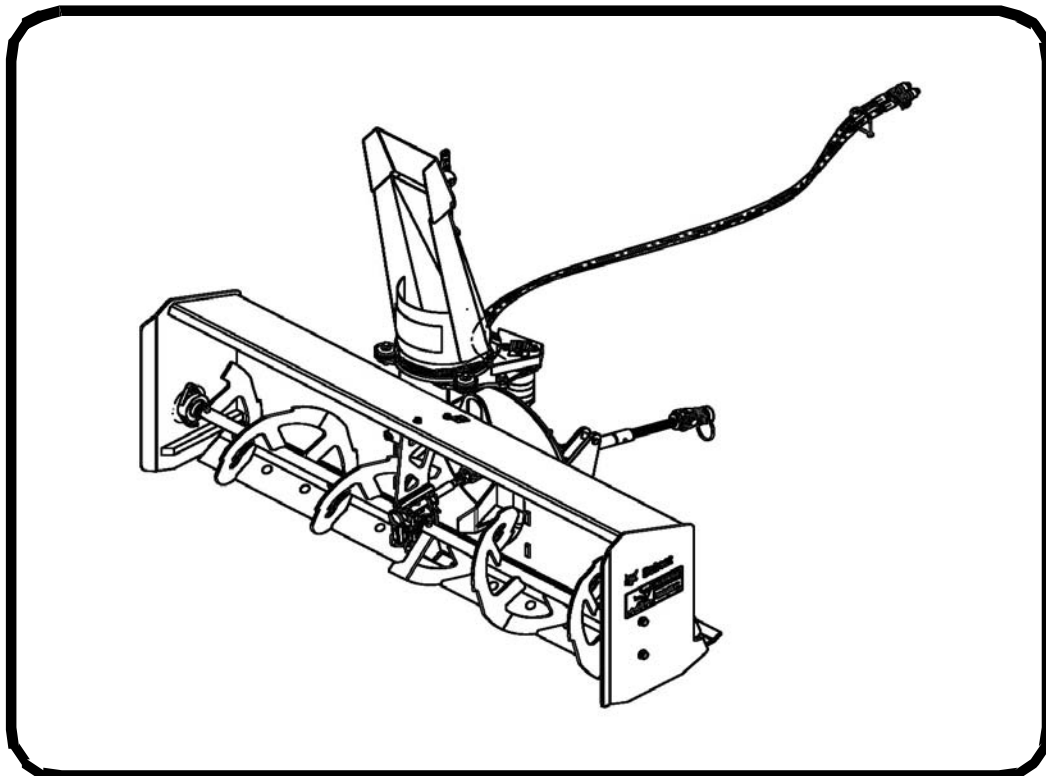
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## Service Manual

# Front Compact Tractor Snowblower

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(FCTSB72) S/N AJGY00101 & Above



Sample of manual. Download All 94 pages at:

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Product: 2010 Bobcat Front Compact Tractor Snowblower Service Repair Workshop Manual(FCTSB72 S/N AJGY00101 & Above)  
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# MAINTENANCE SAFETY



## WARNING

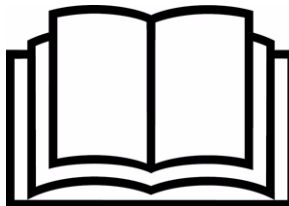
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after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

W-2003-0807











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

**CORRECT**



P-90216

-  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.

MSW30-0409



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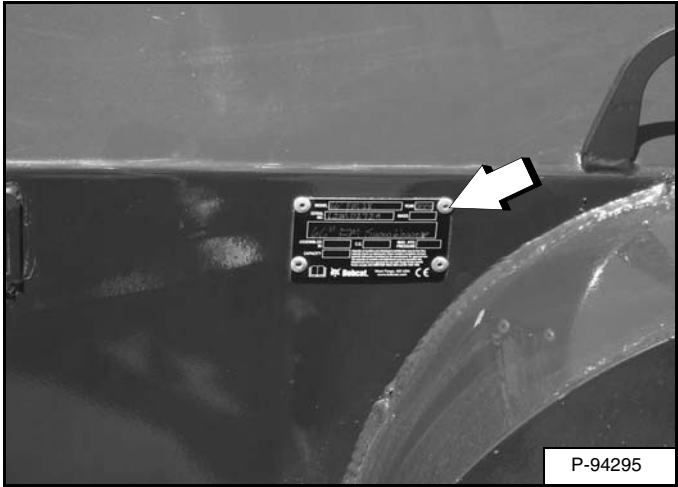
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SERIAL NUMBER LOCATION

Implement Serial Number

Figure 1



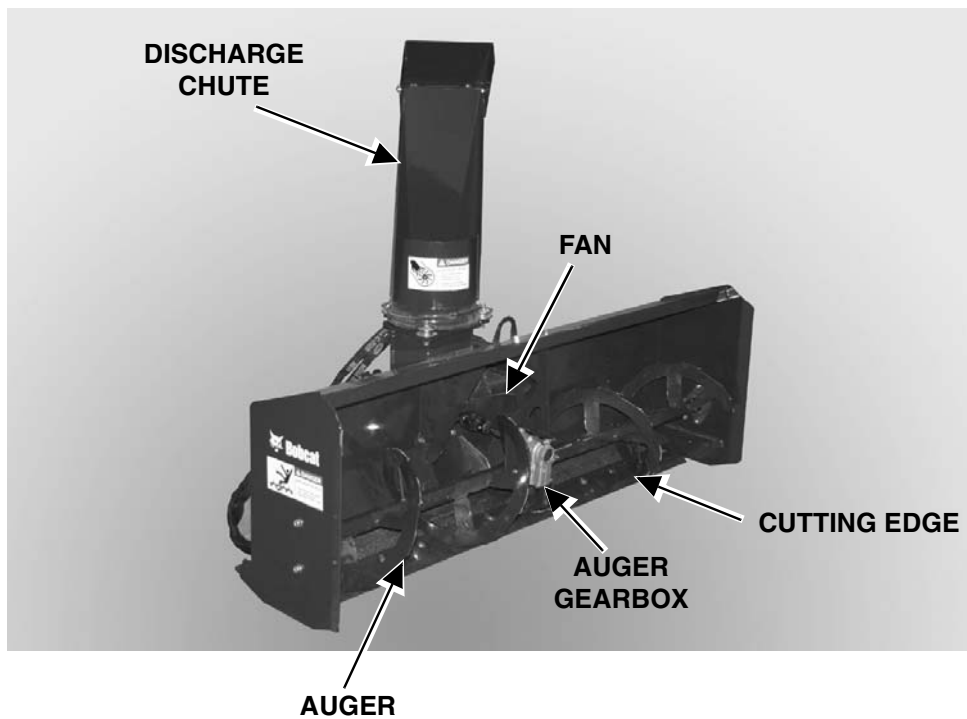
Always use the serial number of the front mount snowblower when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [Figure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

DELIVERY REPORT

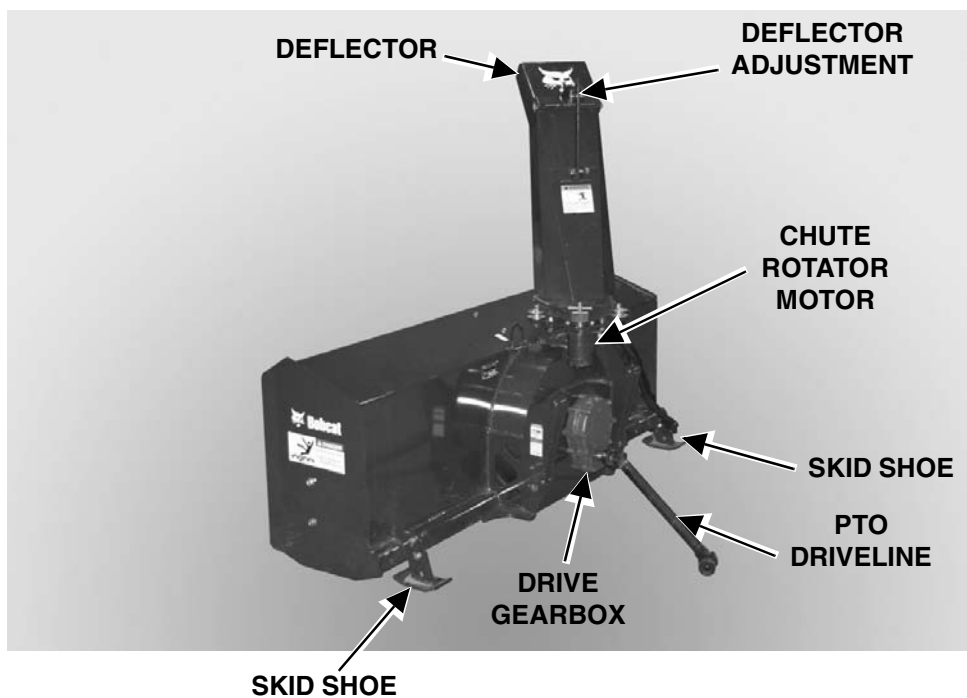
Figure 2

The delivery report [Figure 2] must be completed by the dealer and signed by the owner or operator when the Bobcat front mount snowblower is delivered. An explanation of the form must be given to the owner.

## IMPLEMENT IDENTIFICATION



P-94313



P-94312

## SAFETY & MAINTENANCE

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## TROUBLESHOOTING

### Chart



## 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.

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If the attachment is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the attachment. Attachment problems can be affected by a hydraulic system that is not operating to specifications. Connect a flow meter to the machine to check the hydraulic pump output, relief valve setting and tube lines to check flow and pressure. (See the machine's Service Manual for the correct procedure to connect the flow meter.)

Use the following troubleshooting chart to locate and correct problems which most often occur with the attachment.

PROBLEM	CAUSE	CORRECTION
Snowblower does not operate.	Damaged or incorrect attachment of the PTO shaft.	Check connection, connect properly, repair or replace.
	Auger shear bolt has sheared / missing.	Replace bolt.
	PTO shear bolt has sheared / missing.	Replace bolt.
	Bolt at connection of gearbox to auger broke or missing.	Replace bolt.
Snowblower cuts too low / too high.	Skid shoes out of adjustment.	Raise or lower skid shoes as needed.
	Top link set wrong.	Adjust top link as needed.
Chute does not rotate.	Damaged quick couplers.	Replace quick couplers.
	Damaged hydraulic motor.	Repair or replace.
	Loose or broken chute rotation chain.	Repair or replace.
	Orifice fitting plugged.	Remove orifice fitting, clean fitting and reinstall. If problem persists, remove and replace orifice fitting.



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## SERVICE SCHEDULE

### Description

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat product.



### WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, 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.

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SERVICE SCHEDULE		FREQUENCY		
ITEM	SERVICE REQUIRED	DAILY	10 HOURS	50 HOURS / YEARLY
Implement Frame Inspection	Inspect for cracks or damage.			
Skid Shoe Inspection	Inspect for excess wear, cracks, damage and loose hardware.			
Check Chute Rotation Chain	Adjust and / or replace chain as required.			
Grease PTO Shaft	Grease PTO shaft and u-joints.			
Grease Outer Auger Bearings	Grease all bearings.			
Gearbox Lubrication Level	Check for proper level of fluid.			
Replace Drive Gearbox Lube	Drain and replace fluid (Approx. 20 fl. oz. (0,60 L) of EP80W90)		[1]	
Replace Auger Gearbox Lube	Drain and replace fluid (Approx. 10.24 fl. oz. (0,30 L) of EP80W90)		[1]	

[1] Service at first 10 hours and thereafter as scheduled.



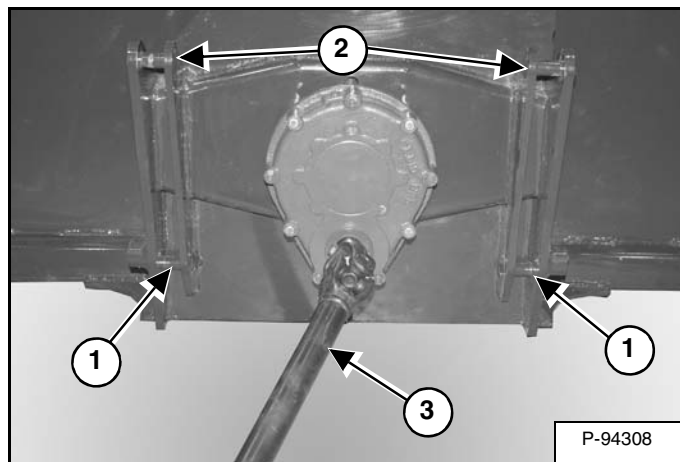
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## DAILY INSPECTION

### Implement Mounting Frame

Figure 10-30-1



Inspect the lower mounts and lower mounting pins (Item 1) and upper mounts and pins (Item 2), along with all welds on the implement for wear and damage each time the implement is removed from the compact tractor. Inspect the input shaft and PTO driveline for damage (Item 3) [Figure 10-30-1].

Check the following items at the start of a work day:

- Check for damaged or missing decals. Replace if necessary.
- Replace any worn or damaged parts immediately.

### Compact Tractor Quick Hitch

## 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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## WARNING

### AVOID INJURY OR DEATH

The parking brake must be engaged before leaving the operator's seat. Rollaway can occur because the transmission may not prevent machine movement. Lock the brake pedals together before activating the parking brake.

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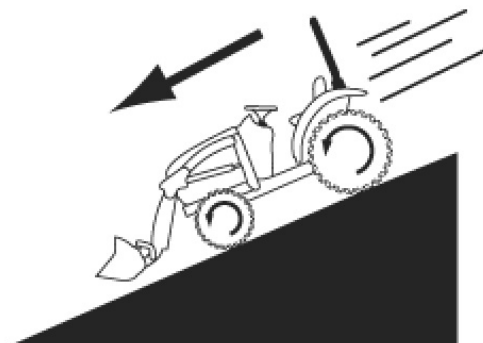
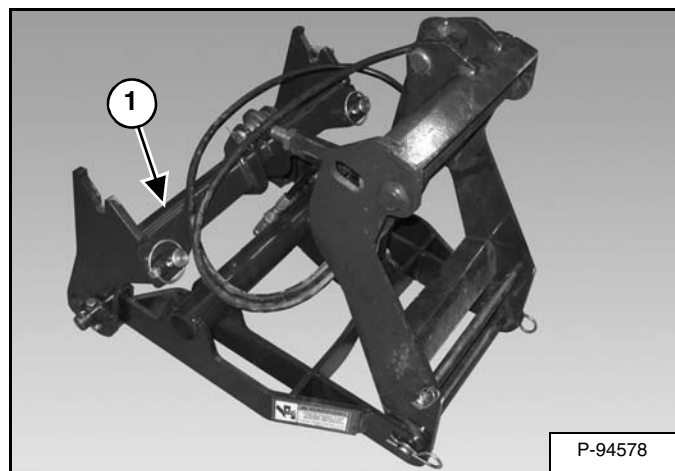


Figure 10-30-2



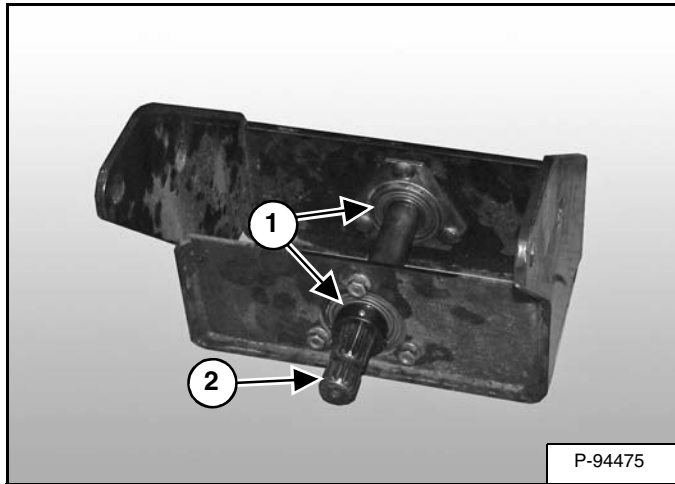
Inspect the quick hitch (Item 1) [Figure 10-30-2] and all welds on the quick hitch mount for wear and damage each time the implement is removed from the machine.

Repair or replace damaged parts.

## DAILY INSPECTION (CONT'D)

### Front-PTO Shaft Assembly

Figure 10-30-3



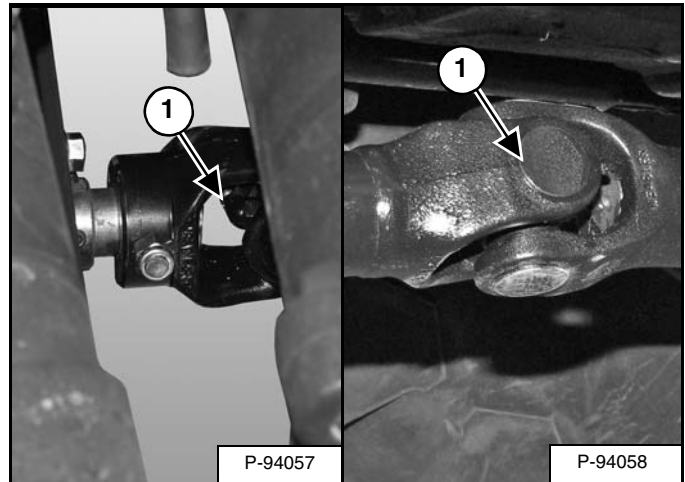
Inspect the front-PTO shaft assembly for wear or damage. Inspect the bearings (Item 1) and shaft (Item 2) [Figure 10-30-3] for wear or damage.

**NOTE: Front-PTO shaft assembly shown removed from the compact tractor.**

Repair or replace damaged parts.

### PTO Driveline

Figure 10-30-4



Inspect the driveline assembly for wear or damage.

**NOTE: Pay attention to damaged or worn u-joints (Item 1) [Figure 10-30-4].**

Repair or replace damaged parts.

## IMPLEMENT STORAGE AND RETURN TO SERVICE

### Storage

Sometimes it may be necessary to store your Bobcat implement for an extended period of time. Below is a list of items to perform before storage:

- Thoroughly clean and wash the implement.
- Lubricate the implement.
- Inspect the upper and lower mounts, mounting pins and all welds on the implement for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Replace worn or damaged parts.
- Check for damaged or missing decals. Replace if necessary.
- Place the implement in a dry protected shelter.
- Place the implement flat on the ground.

**NOTE: In muddy conditions or to prevent the implement from freezing to the ground, put the implement on planks or blocks before removing the implement from the machine.**

### Return To Service

After the Bobcat implement has been in storage, it is necessary to follow a list of items to return the implement to service:

- Check for damaged or missing decals. Replace if necessary.
- Be sure all shields and guards are in place.
- Lubricate the implement.
- Check for loose hardware, missing or damaged parts.
- Check for leaks. Repair as needed.
- Check oil level in the gearbox(es).
- Install and operate implement, check for correct function.



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## REGULAR MAINTENANCE ITEMS

### Auger Gearbox Fluid

# ! 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.

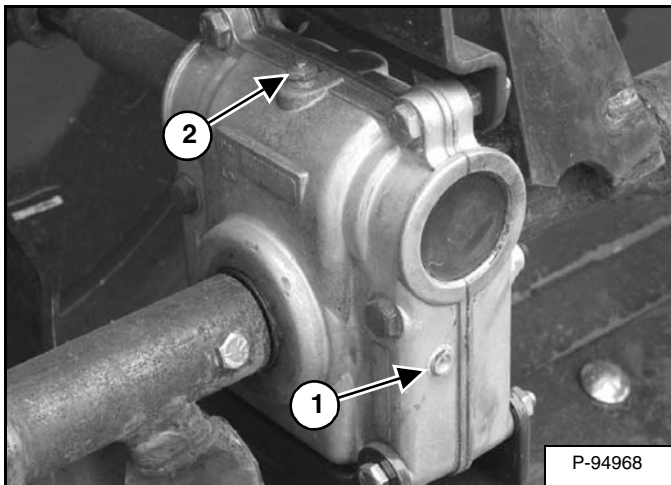
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# IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

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Figure 10-50-1



Check for proper oil level in the auger gearbox.

Remove the fluid level plug (Item 1) [Figure 10-50-1]. The oil should flow from the check port.

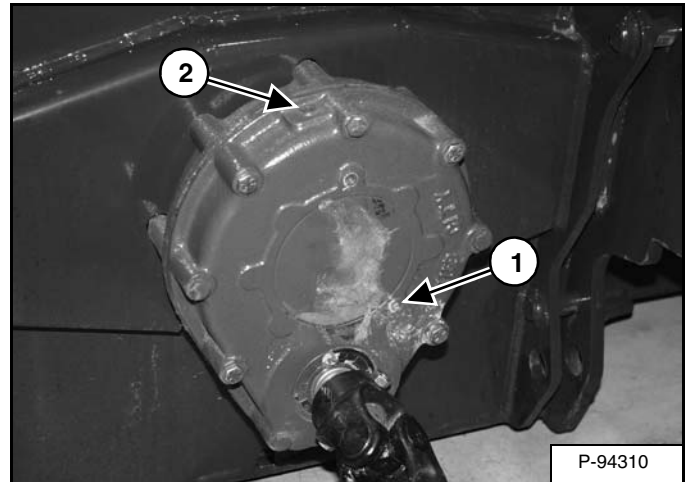
If the oil does not flow out of the check port, remove breather / fill plug (Item 2) [Figure 10-50-1].

Add oil (EP80W-90 Gear Lube) until the oil begins to flow out of the check port.

Reinstall fluid level plug and breather / fill plug.

### Drive Gearbox Fluid

Figure 10-50-2



Check for proper oil level in the drive gearbox.

Remove the fluid level plug (Item 1) [Figure 10-50-2]. The oil should flow from the check port.

If the oil does not flow out of the check port, remove breather / fill plug (Item 2) [Figure 10-50-2].

Add oil (EP80W-90 Gear Lube) until the oil begins to flow out of the check port.

Reinstall fluid level plug and breather / fill plug.

## REGULAR MAINTENANCE ITEMS (CONT'D)

### Skid Shoe

# ! WARNING

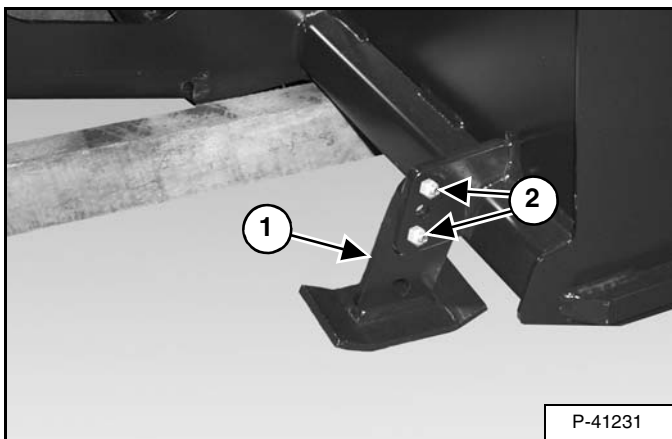
#### AVOID INJURY OR DEATH

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 10-50-3



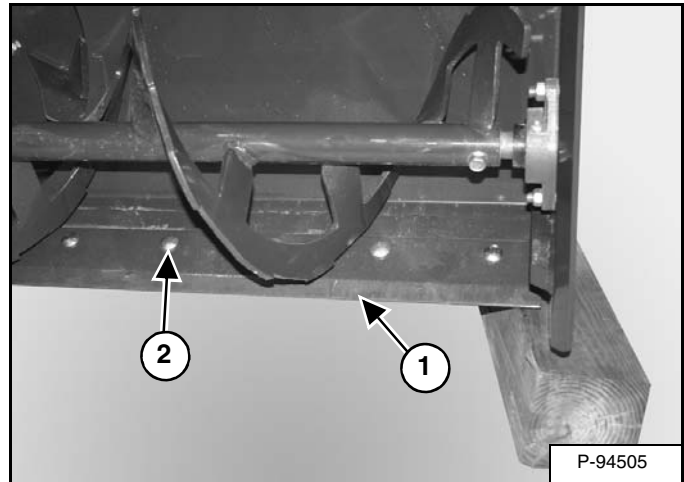
Inspect the skid shoes (Item 1) and welds for cracks, damage and / or excessive wear. Repair or replace if any cracks, damage or excessive wear is visible. Tighten or replace any loose or missing bolts or nuts (Item 2) [Figure 10-50-3].

To remove skid shoe (Item 1), loosen and remove the bolts and nuts (Item 2) [Figure 10-50-3] and remove the skid shoe.

**Installation:** Realign holes, tighten bolts to 65 - 70 ft.-lb. (88 - 95 N•m) of torque.

### Cutting Edge

Figure 10-50-4



# ! WARNING

#### AVOID INJURY OR DEATH

Securely block up the implement before working underneath.

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Inspect the cutting edge (Item 1) for cracks, damage and excessive wear. Replace if any cracks, damage or excessive wear is visible. Tighten or replace any loose or missing bolts or nuts (Item 2) [Figure 10-50-4].

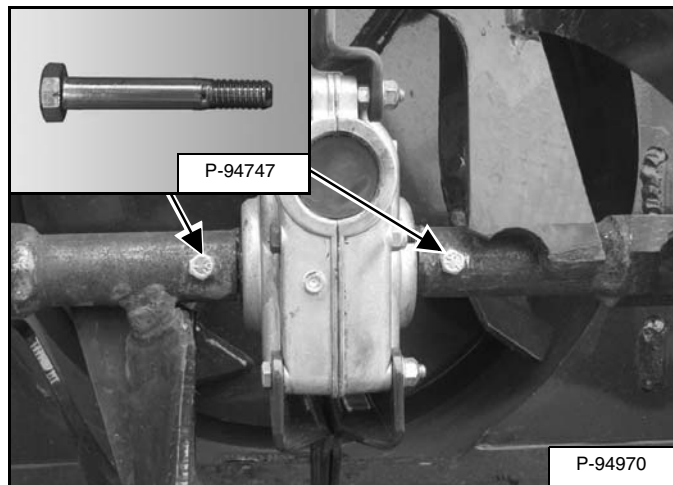
To replace cutting edge (Item 1), lift and block both sides of the front mount snowblower. Remove the bolts and nuts (Item 2) [Figure 10-50-4], remove the cutting edge.

**Installation:** Realign holes, tighten bolts to 65 - 70 ft.-lb. (88 - 95 N•m) of torque.

## REGULAR MAINTENANCE ITEMS (CONT'D)

### Shear Bolt Replacement

Figure 10-50-5



Remove any remaining portion of the old shear bolt from the gearbox shaft [Figure 10-50-5].

**NOTE:** Use only shear bolts recommended by Bobcat.

**NOTE:** When replacing the auger shear bolts, the auger paddles must be 180° from each other.

**Installation:** Realign holes, tighten bolts.

### Cleaning The Front Mount Snowblower

Stop the machine and implement on a flat level surface. Engage the parking brake. Disengage the mid-PTO and place all controls in neutral. Stop the engine, unfasten the seat belt, remove the key and exit the compact tractor.

Disconnect the PTO driveline.

Use water or air pressure to clean debris from the front mount snowblower.

Use care when removing any obstructions that are wrapped around auger or driveline.



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## LUBRICATING THE IMPLEMENT

### Lubrication Locations

# ! WARNING

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

- Pressurized fluids and springs or other stored energy components.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2505-0604

# IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

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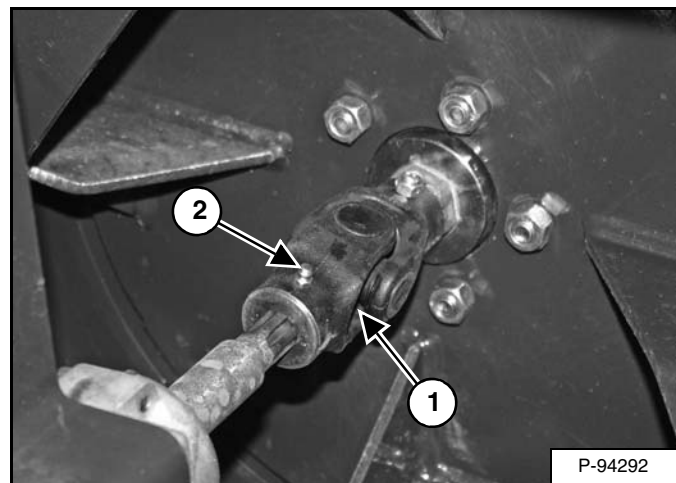
Lubricate the grease fittings EVERY 8 - 10 hours.

Lubricate as specified for the best performance of the front mount snowblower.

Always use a good quality lithium based multipurpose grease. Apply lubricant until extra grease shows.

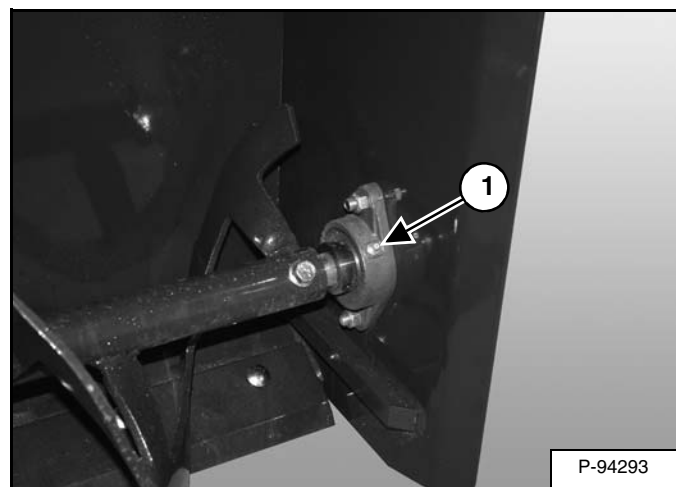
Lubricate the following:

Figure 10-60-1



U-joint (Item 1) and junction (Item 2) [Figure 10-60-1] on working side of fan.

Figure 10-60-2

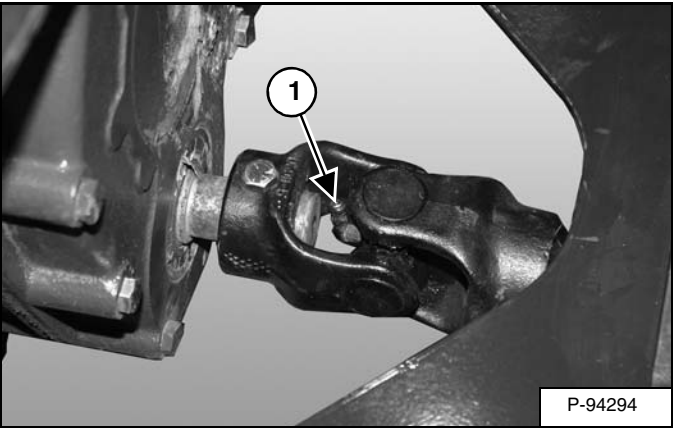


Bearing block (Item 1) [Figure 10-60-2] on outer end of each auger.

LUBRICATING THE IMPLEMENT (CONT'D)

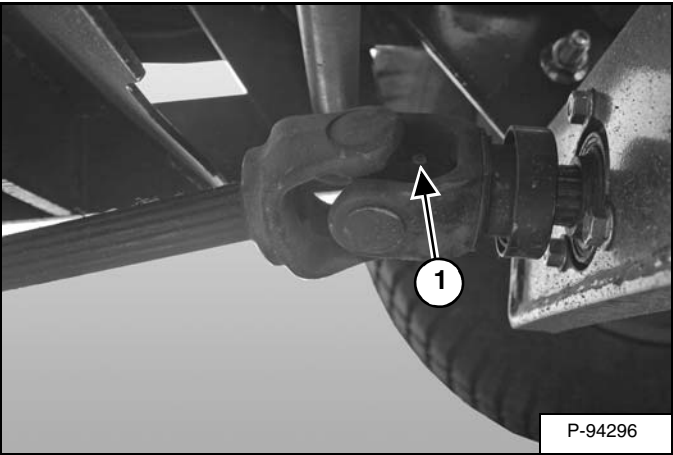
Lubrication Locations (Cont'd)

Figure 10-60-3



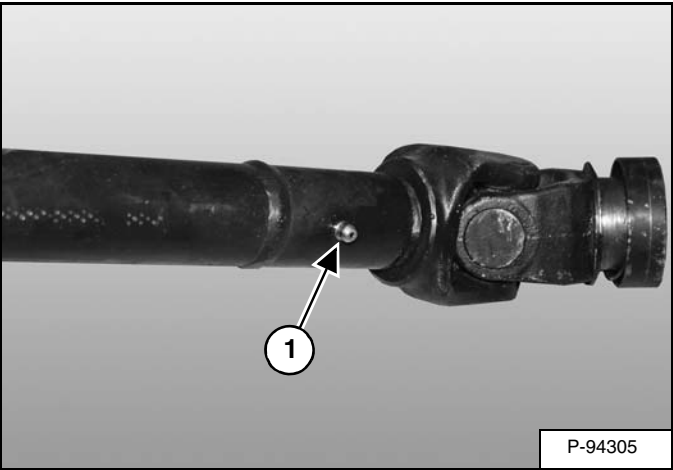
U-joint (Item 1) [Figure 10-60-3] at the drive gearbox.

Figure 10-60-4



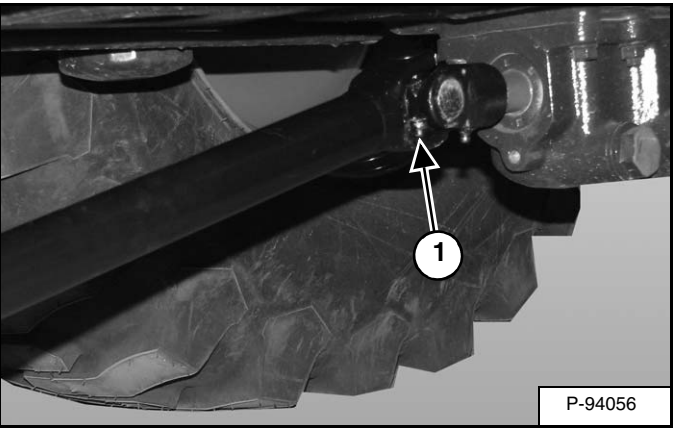
U-joint (Item 1) [Figure 10-60-4] at the front-PTO.

Figure 10-60-5



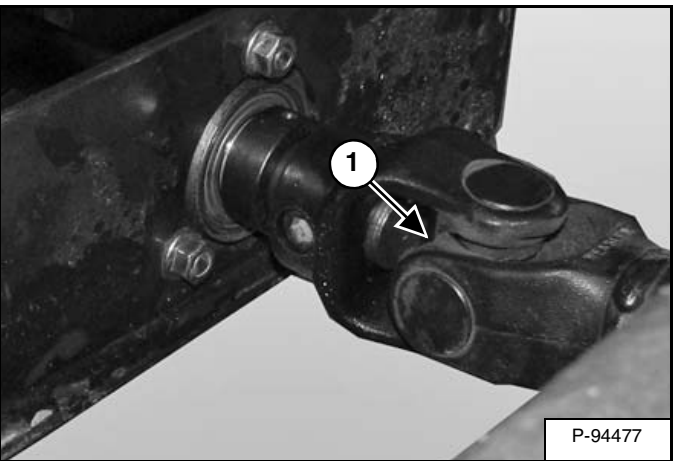
Rear of the PTO driveline sleeve (Item 1) [Figure 10-60-5].

Figure 10-60-6



Fixed shaft u-joint (Item 1) [Figure 10-60-6] at the mid-PTO.

Figure 10-60-7



Fixed shaft u-joint (Item 1) [Figure 10-60-7] at the front-PTO shaft.

## LUBRICATING THE IMPLEMENT (CONT'D)

### Auger Gearbox Fluid Change

# ! 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.

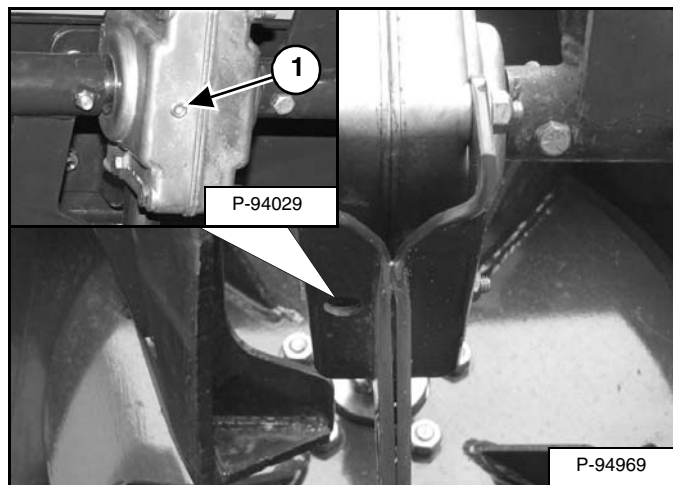
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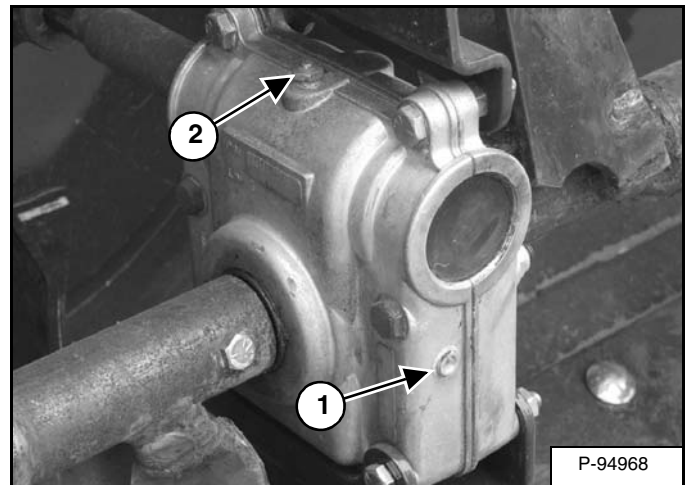
Figure 10-60-8



Remove drain plug (Item 1) [Figure 10-60-8] from the auger gearbox, draining the fluid into an approved container and cleaning up any spills.

Install and tighten drain plug.

Figure 10-60-9



Fill the auger gearbox to proper oil level.

Remove the fluid level plug (Item 1) [Figure 10-60-9].

Remove the breather / fill plug (Item 2) [Figure 10-60-9].

Add oil (EP80W-90 Gear Lube) until the oil begins to flow out of the check port.

Install and tighten fluid level plug and breather / fill plug.

## LUBRICATING THE IMPLEMENT (CONT'D)

### Drive Gearbox Fluid Change

# ! 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.

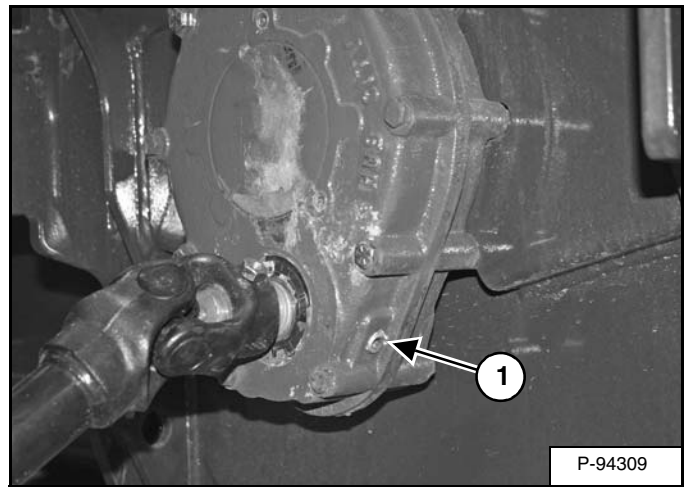
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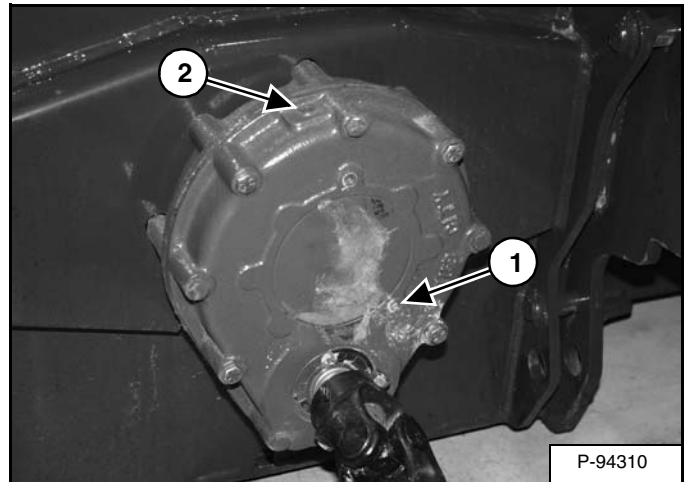
Figure 10-60-10



Remove drain plug (Item 1) [Figure 10-60-10] from the drive gearbox, draining the fluid into an approved container and cleaning up any spills.

Install and tighten drain plug.

Figure 10-60-11



Fill the drive gearbox to proper oil level.

Remove the fluid level plug (Item 1) [Figure 10-60-11].

Remove the breather / fill plug (Item 2) [Figure 10-60-11].

Add oil (EP80W-90 Gear Lube) until the oil begins to flow out of the check port.

Install and tighten fluid level plug and breather / fill plug.

## HYDRAULIC SYSTEM

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