



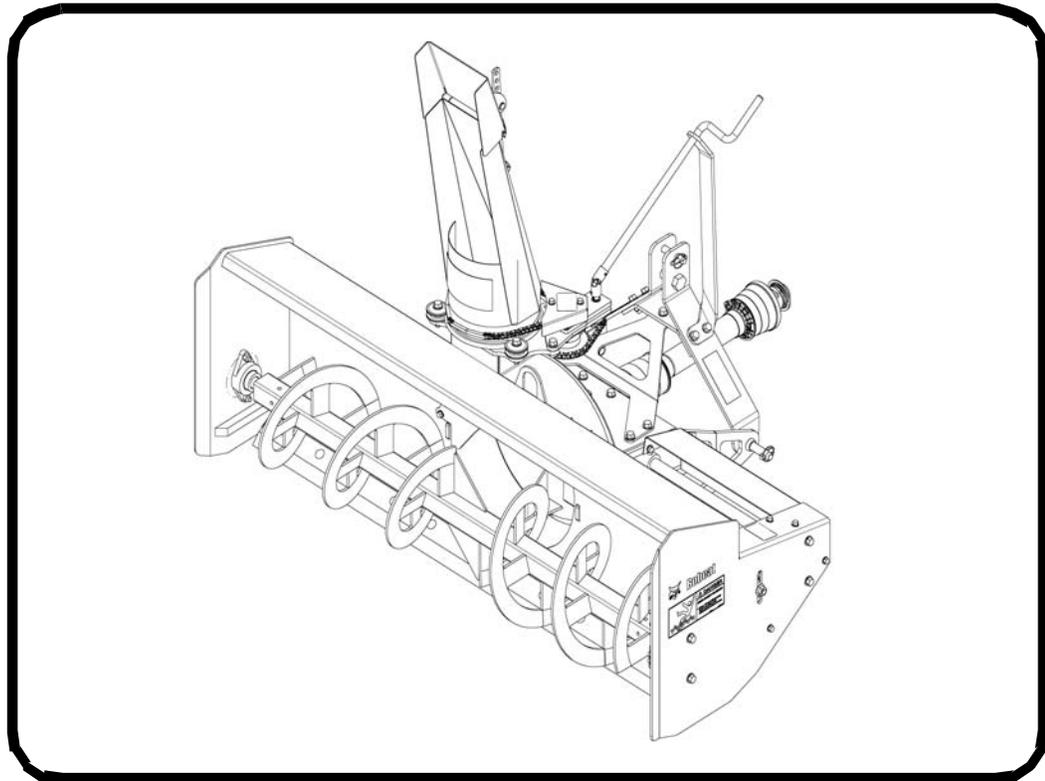
Bobcat®

Service Manual

Three-Point Snow Blower

3SB

(54 Inch) S/N ABCW00101 & Above
(66 Inch) S/N ABCU00101 & Above
(72 Inch) S/N AB4K00101 & Above



Product: 2008 Bobcat Three-Point Snow Blower 54 Inch,66 Inch,72 Inch Service Repair Workshop Manual
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MAINTENANCE SAFETY



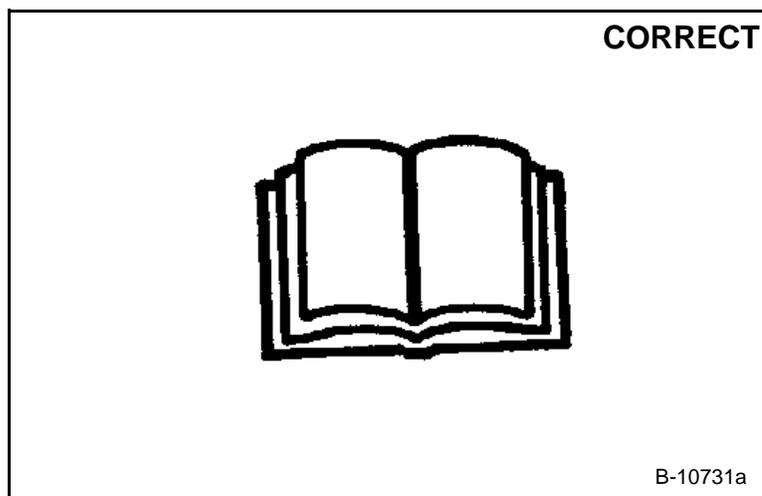
WARNING

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-2003-0903



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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**PREVENTIVE
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**MAIN
FRAME**

**SPECIFICATIONS
AND
SCHEMATICS**

REFERENCE INFORMATION

Write the correct information for YOUR three-point snow blower in the spaces below. Always use these numbers when referring to your three-point snow blower.

Three-Point Snow Blower Serial Number _____

NOTES:

YOUR BOBCAT® DEALER:

ADDRESS:

PHONE:

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

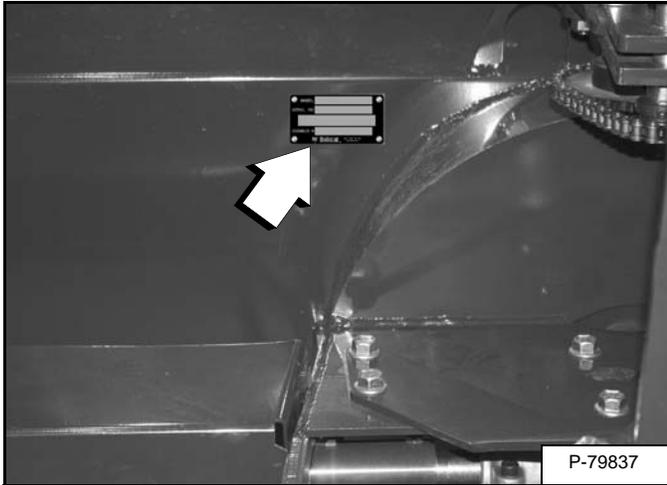
Bobcat Company Europe
Drève Richelle 167
B-1410 WATERLOO
Belgium



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SERIAL NUMBER LOCATION

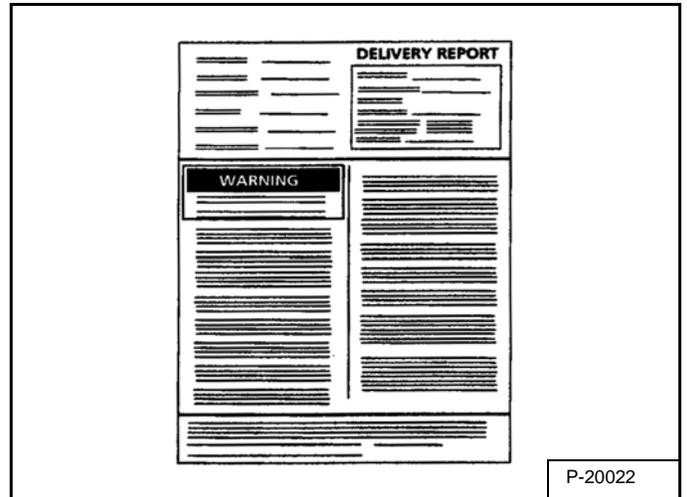
Figure 1



Always use the serial number of the three-point snow blower 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].

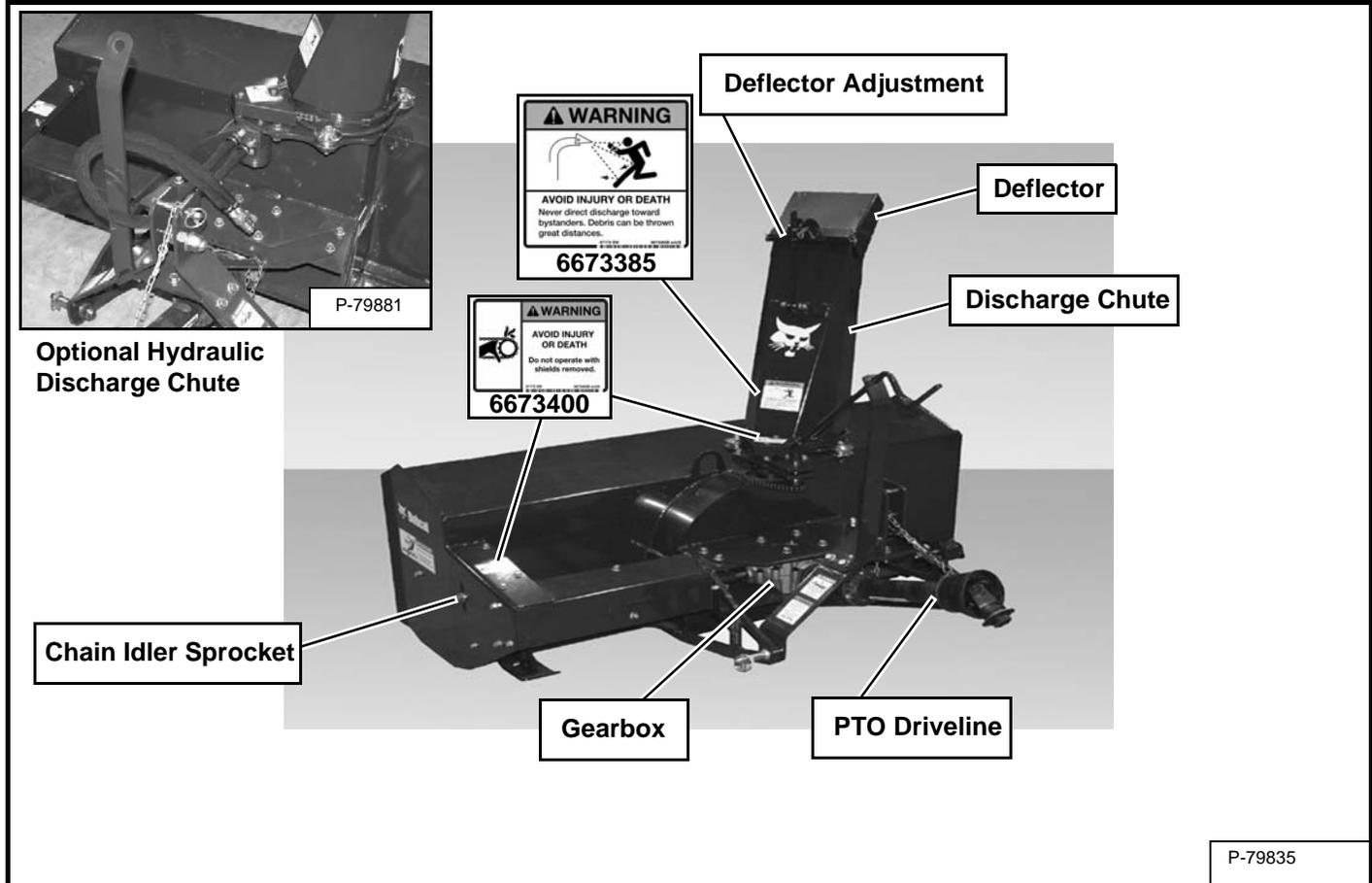
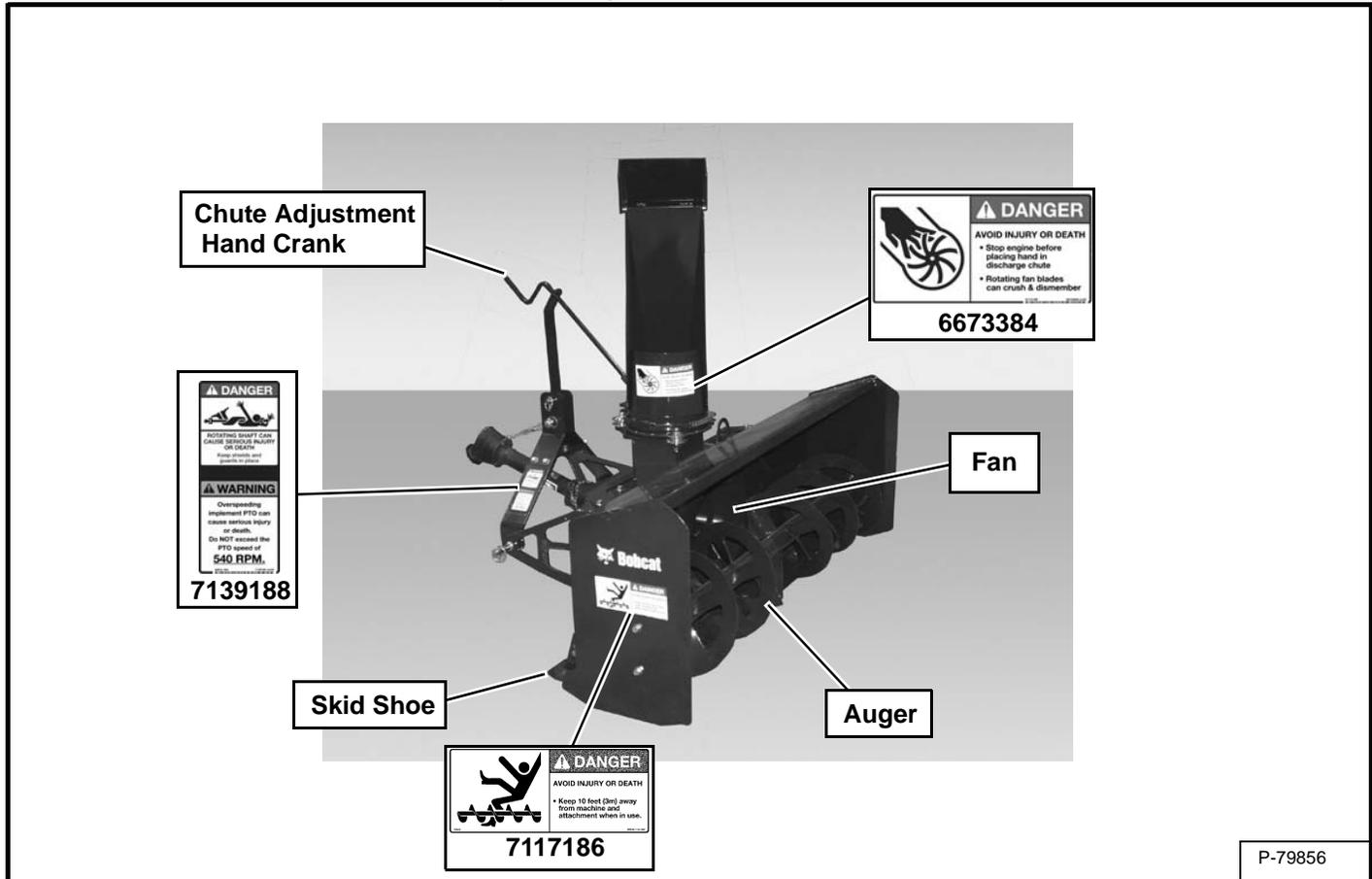
DELIVERY REPORT

Figure 2



The delivery report must be filled out by the dealer and signed by the owner or operator when the three-point snow blower 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)



PREVENTIVE MAINTENANCE

PREVENTIVE MAINTENANCE

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TROUBLESHOOTING

Chart

PROBLEM	CAUSE	CORRECTION
Snow blower does not operate	Damaged or incorrect attachment of the PTO driveline	Check connection, connect properly, repair or replace
	Auger shear bolt has sheared / missing	Replace bolt
	PTO shear bolt has sheared / missing	Replace bolt
	Chain broke or derailed	Repair or replace
	Bolt at connection of sprocket to auger broke or missing	Replace bolt
Chute does not rotate	Loose or broken chute rotation chain	Repair or replace
Snow blower cuts too low / too high	Skid shoes out of adjustment	Raise or lower skid shoes as needed
OPTIONAL HYDRAULIC CHUTE ROTATION EQUIPPED MODELS		
PROBLEM	CAUSE	CORRECTION
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



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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

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W-2003-0199

SERVICE SCHEDULE		FREQUENCY		
ITEM	SERVICE REQUIRED	DAILY	10 HOURS	50 HOURS/ YEARLY
Implement Frame Inspection	Inspect for cracks or damage.	X		
Skid Shoe Inspection	Inspect for excess wear, cracks, damage and loose hardware.	X		
Check Chain Tension	Adjust and/or replace chain as required.	X		
Grease PTO driveline	Grease PTO driveline and knuckles.		X	
Grease Snow Blower Bearings	Grease all bearings.		X	
Gearbox Lubrication Level	Check for proper level of fluid.		X	
Replace Gearbox Lube	Drain and replace fluid (Approx. 28 fl. oz. of EP80W90)	■		X

■ Service at first 10 hours and thereafter as scheduled.

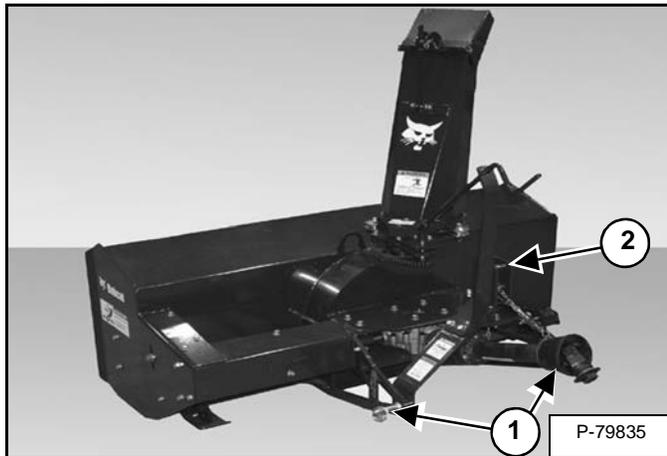


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INSPECTION

Implement Mounting Frame

Figure 10-30-1



Inspect the lower three-point mounts and lower mounting pins (Item 1) and upper three-point mount and pin (Item 2) [Figure 10-30-1], along with all welds on the three-point snow blower for wear and damage each time the three-point snow blower is removed from the compact tractor.

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.

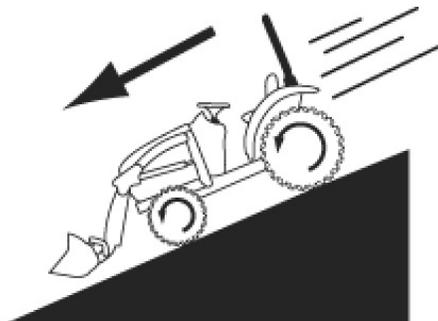
Three-Point Hitch

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.

W-2656-0807



WARNING

AVOID INJURY OR DEATH

- Do NOT exceed the rated implement PTO speed.
- Stay clear of rotating driveline.
- Keep bystanders away.
- Keep hands, feet, clothing and long hair away.
- Keep PTO shields and all guards in place.
- Disengage PTO (rear and mid), engage the parking brake, stop the engine and make sure all rotating components are stopped before exiting compact tractor.
- Do NOT service the compact tractor or implement with the PTO (rear or mid) engaged.
- Do NOT service the implement in a raised position unless properly blocked and with all rotating components stopped.
- Disengage PTO (rear and mid) for road travel.

W-2697-1007

DANGER

AVOID INJURY OR DEATH

Keep away from auger, fan and other moving parts. Do not operate with guards removed.

D-1006-0708

Figure 10-30-2



Inspect the three-point hitch linkage, PTO shaft splines (if required), guards, and shields. Replace if damaged or missing [Figure 10-30-2]. Repair broken or loose parts.

See the Compact Tractor Operation & Maintenance Manual for detailed information on inspecting the compact tractor.



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LUBRICATING THE IMPLEMENT

Lubrication Locations

WARNING

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.

W-2599-0607

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.

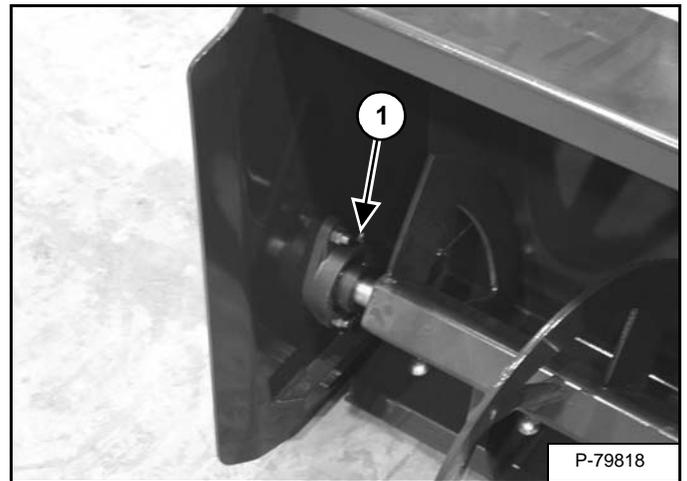
W-2568-0907

Lubricate as specified for the best performance of the three-point snow blower.

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

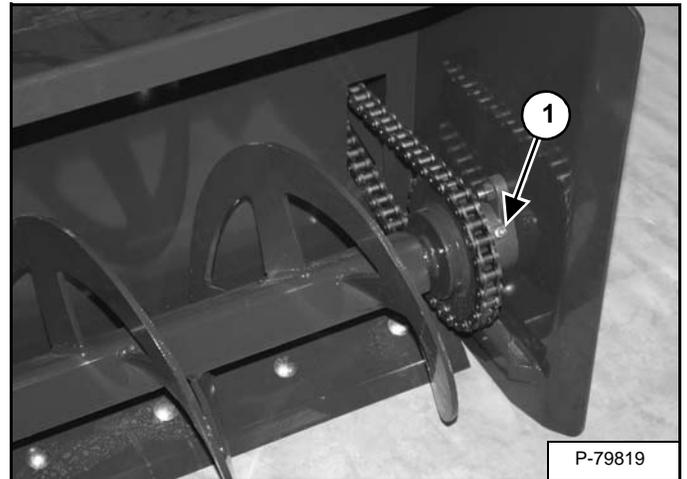
Lubricate the following:

Figure 10-40-1



The grease zerk (Item 1) [Figure 10-40-1] is located on the left side of the auger on the bearing block, wipe any excess grease or dirt off before greasing.

Figure 10-40-2

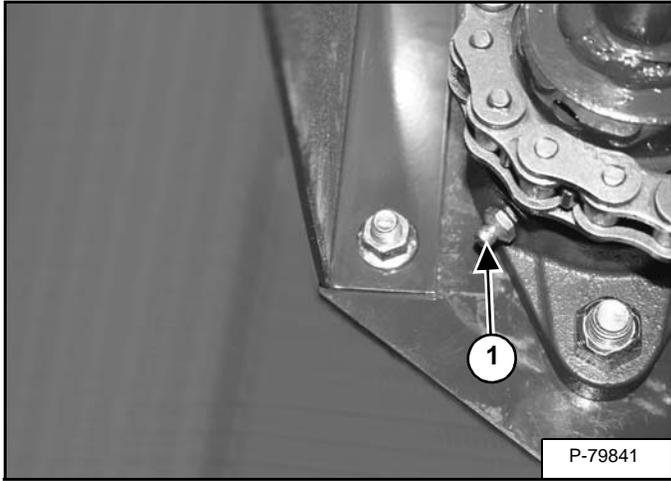


The grease zerk (Item 1) [Figure 10-40-2] is located on the right side of the auger on the bearing block, wipe any excess grease or dirt off before greasing.

LUBRICATING THE IMPLEMENT (CONT'D)

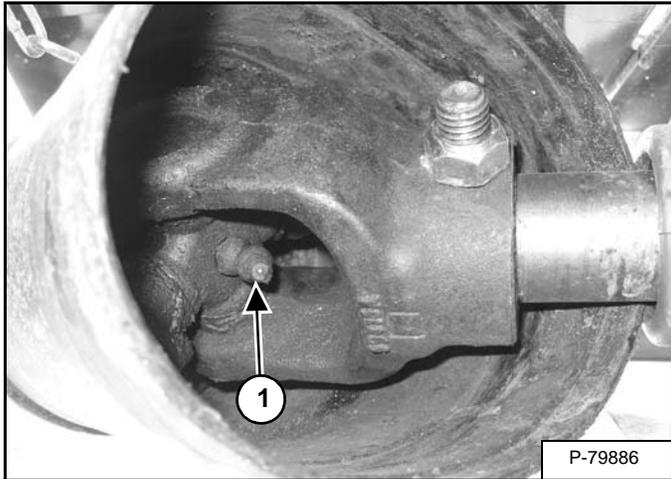
Lubrication Locations (Cont'd)

Figure 10-40-3



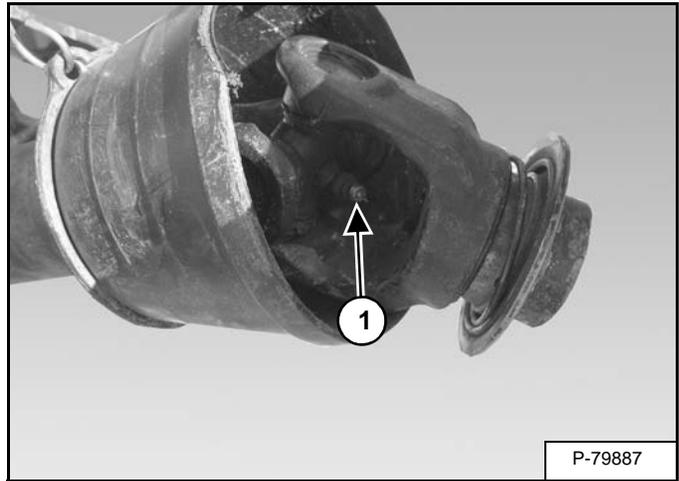
The grease zerk (Item 1) [Figure 10-40-3] is located on the right side of the snow blower under the chain guard on the bottom of the bearing block, wipe any excess grease or dirt off before greasing.

Figure 10-40-4



The grease zerk (Item 1) [Figure 10-40-4] is located on the gearbox side of the PTO driveline on the knuckle, wipe any excess grease or dirt off before greasing.

Figure 10-40-5



The grease zerk (Item 1) [Figure 10-40-5] is located on the compact tractor side of the PTO driveline on the knuckle, wipe any excess grease or dirt off before greasing.

REGULAR MAINTENANCE ITEMS

WARNING

AVOID INJURY OR DEATH

Securely block up the implement before working underneath.

W-2565-0207

WARNING

AVOID INJURY OR DEATH

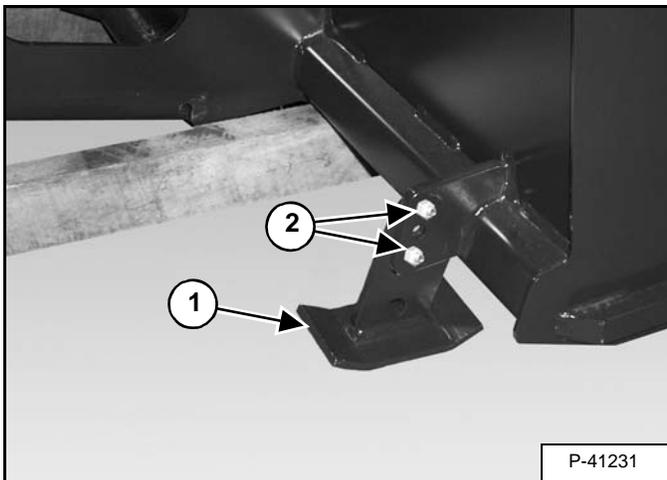
Wear safety glasses to prevent eye injury when any of the following conditions exist:

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

W-2019-0907

Skid Shoes

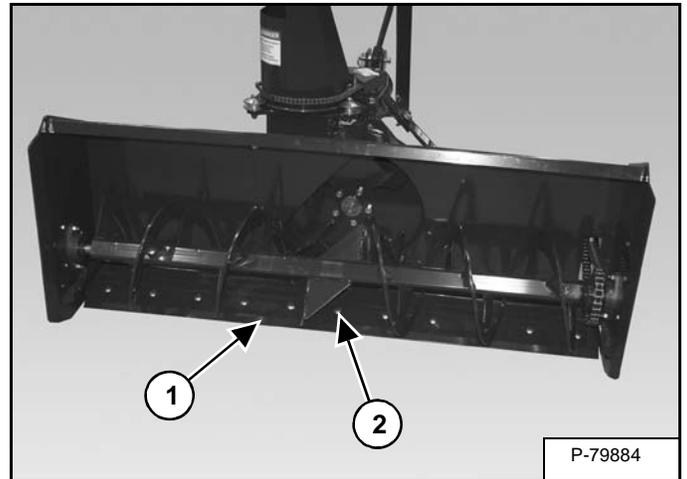
Figure 10-50-1



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 10-50-1].

Cutting Edge

Figure 10-50-2

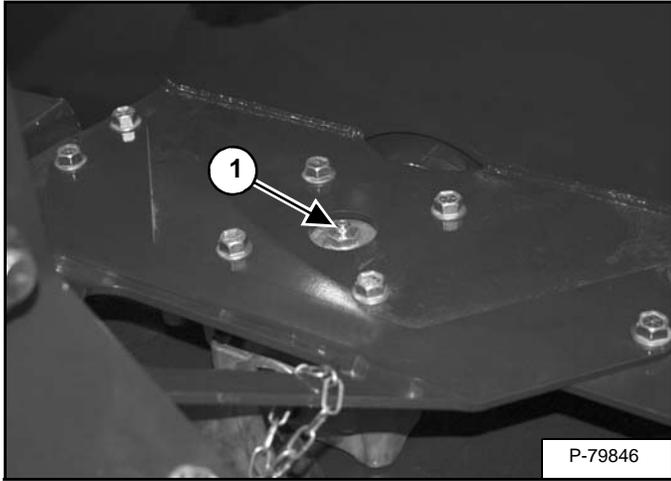


Inspect the cutting edge (Item 1) for cracks, damage and excessive wear. Replace if any cracks, damage or excessive wear is visible. Tighten or replace any loose or missing bolts or nuts (Item 2) [Figure 10-50-2].

REGULAR MAINTENANCE ITEMS (CONT'D)

Gearbox Fluid

Figure 10-50-3



Remove the plug (Item 1) [Figure 10-50-3] from gearbox.

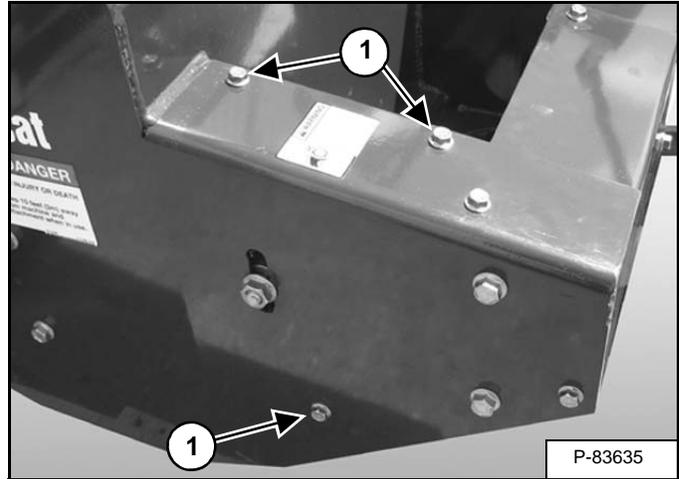
To check the fluid level use a flashlight to look into the gearbox. The fluid level should be about half way up on the drive shaft.

For low fluid level, add SAE EP 80W90 to gearbox.

When fluid is at the correct level, reinstall and tighten the fill plug.

Chain Tightness

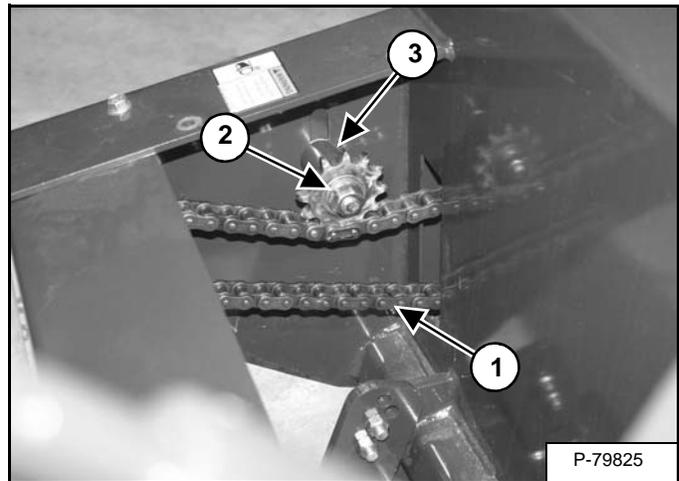
Figure 10-50-4



Remove the chain shield by removing the bolts and nuts (Item 1) [Figure 10-50-4].

Installation: Realign holes, tighten bolts and nuts to 25-28 ft.-lb. (34-38 N•m) torque.

Figure 10-50-5



There should be approximately 1/2 of an inch of movement in the chain (Item 1) [Figure 10-50-5].

To adjust the chain tension, loosen the idler sprocket bolt (Item 2). Slide the idler sprocket assembly (Item 3) [Figure 10-50-5] up or down until the proper chain tension is achieved, then tighten bolt to 125-140 ft.-lb. (170-190 N•m) torque.

REGULAR MAINTENANCE ITEMS (CONT'D)

Cleaning The Three-Point Snow Blower



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

Stop the machine and implement on a flat level surface. Engage the parking brake. Disengage the rear-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 three-point snow blower.

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



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GEARBOX FLUID CHANGE

WARNING

AVOID INJURY OR DEATH

Securely block up the implement before working underneath.

W-2565-0207

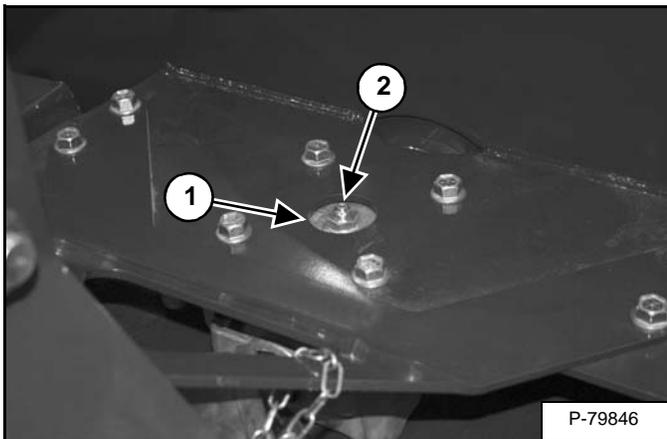
IMPORTANT

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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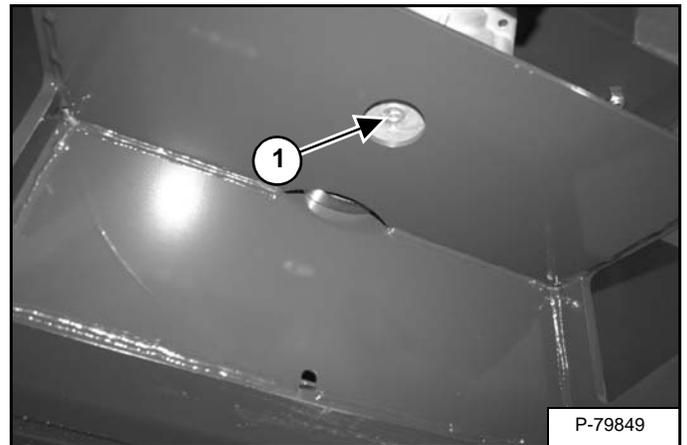
Three-point Snow Blower (All Models)

Figure 10-60-1



Clean any debris and foreign material from fill plug area (Item 1) before removing fill plug (Item 2) [Figure 10-60-1].

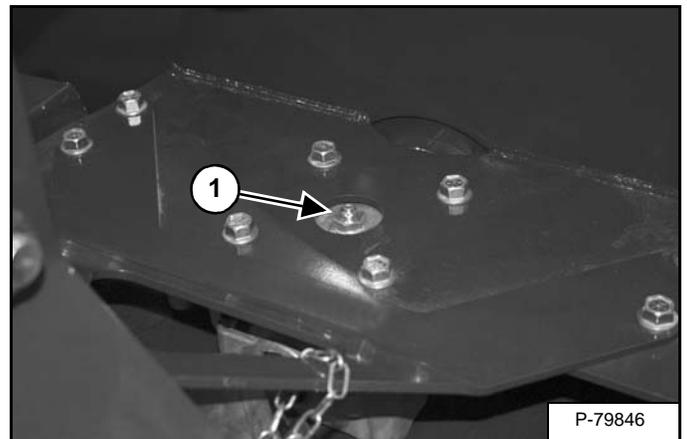
Figure 10-60-2



Remove drain plug (Item 1) [Figure 10-60-2] from the gearbox, draining fluid into an approved container and cleaning up any spills.

Install and tighten drain plug.

Figure 10-60-3



Fill gearbox to correct operation level.

NOTE: The correct oil level is approximately half the depth of the gearbox or to the shaft centerlines.

Install and tighten fill plug (Item 1) [Figure 10-60-3].



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REMOVAL AND INSTALLATION

WARNING

AVOID INJURY OR DEATH

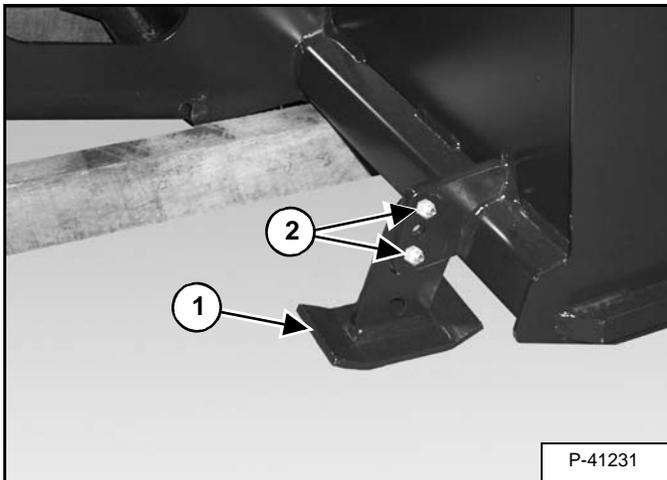
Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
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- Engine is running.
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Skid Shoe Replacement

Figure 10-70-1



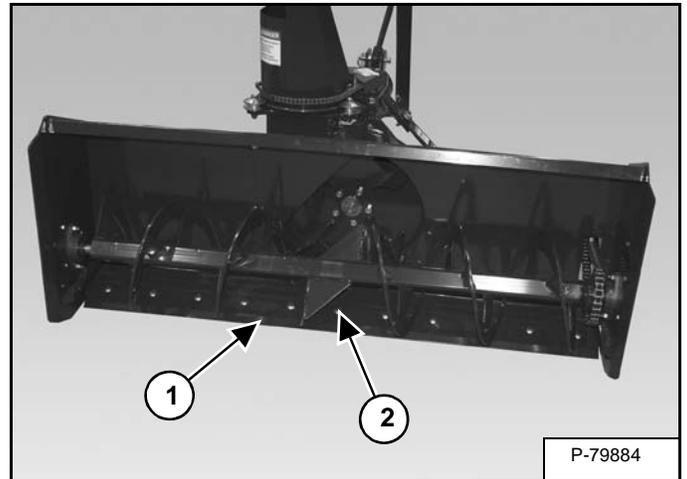
To remove skid shoe (Item 1), loosen and remove the bolts and nuts (Item 2) [Figure 10-70-1].

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

Remove the skid shoe.

Cutting Edge Replacement

Figure 10-70-2



To replace cutting edge (Item 1), lift the three-point snow blower and support to keep from falling, loosen and remove the bolts and nuts (Item 2) [Figure 10-70-2].

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

Remove the cutting edge.



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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.
- Check for damaged or missing decals. Replace if necessary.
- Check for loose hardware, missing or damaged parts.
- Replace worn or damaged parts.
- Lubricate the implement.
- Place the implement on flat ground in a dry protected shelter.

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.
- Check for loose hardware, missing or damaged parts.
- Replace worn or damaged parts.
- Lubricate the implement.
- Check oil level in the gearbox.

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