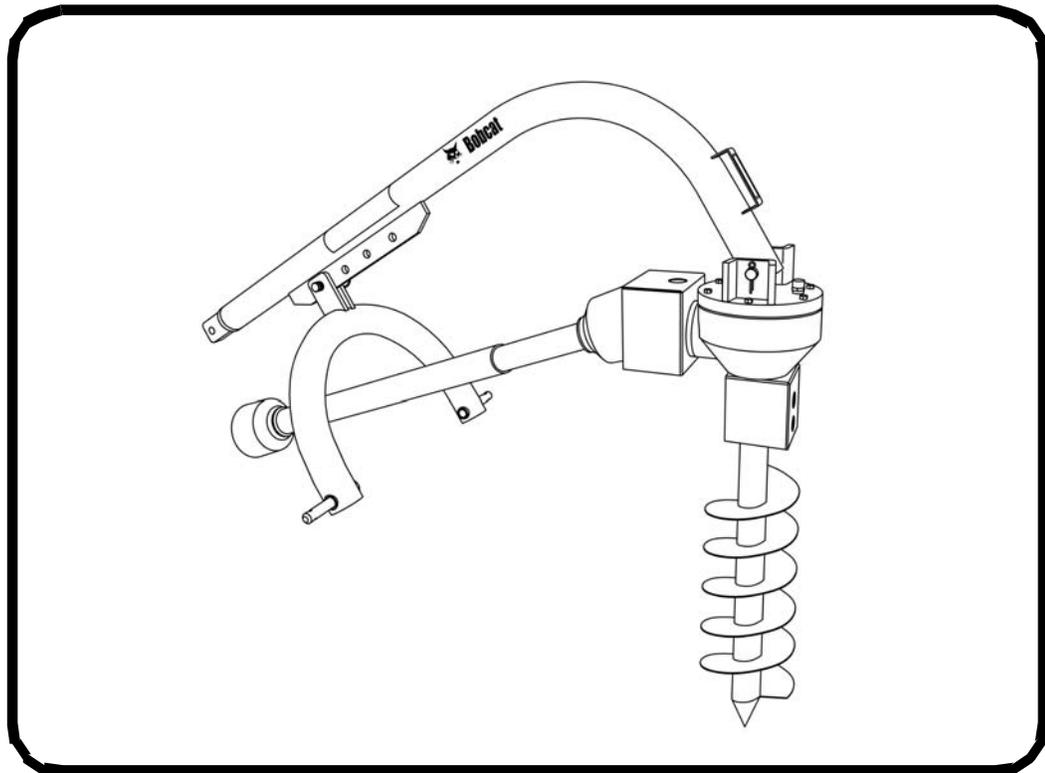




Bobcat®

Service Manual Three-Point Auger

(3PTA) S/N AMJS00101 & Above



Product: 2010 Bobcat Three-Point Auger 3PTA Service Repair Workshop Manual

Full Download: <https://www.arepairmanual.com/downloads/2010-bobcat-three-po>

[int-auger-3pta-service-repair-workshop-manual/](https://www.arepairmanual.com/downloads/2010-bobcat-three-po)

Sample of manual. Download All 56 pages at:

<https://www.arepairmanual.com/downloads/2010-bobcat-three-point-auger-3pta-service-repair-workshop-manual/>

MAINTENANCE SAFETY



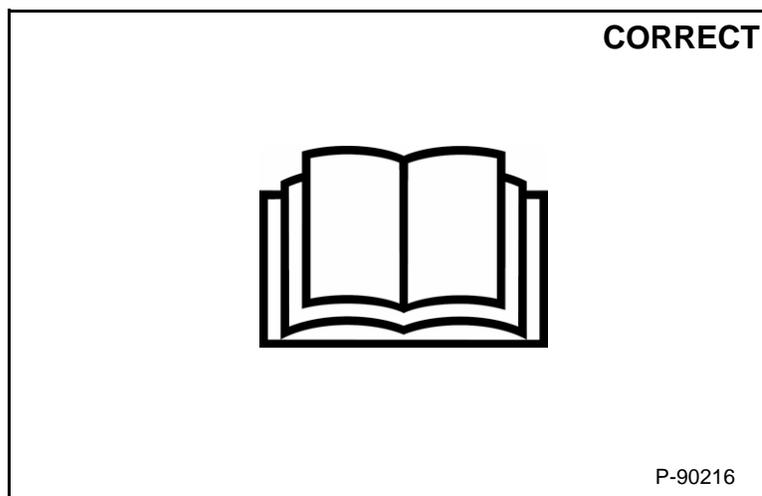
WARNING

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-2003-0807



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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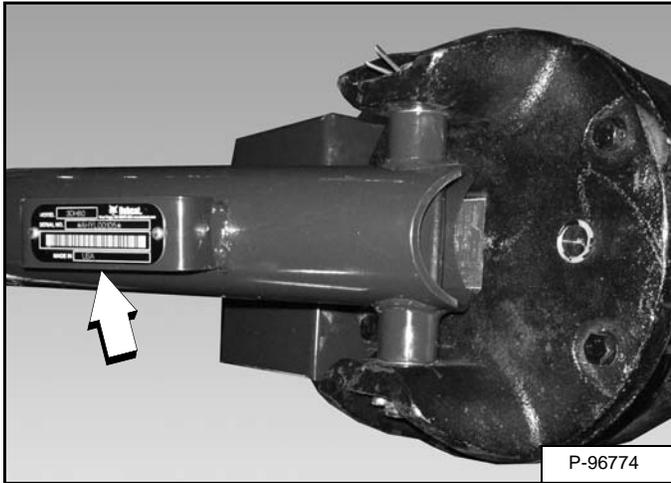


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SERIAL NUMBER LOCATION

Implement Serial Number

Figure 1



Always use the serial number of the three-point auger 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 image shows a form titled "DELIVERY REPORT". The form is divided into several sections. At the top right, there is a section labeled "DELIVERY REPORT" with several lines of text. Below this, there is a section labeled "WARNING" with a black background and white text. The rest of the form consists of several columns of horizontal lines, likely for entering information. In the bottom right corner of the form, there is a small box containing the code "B-16315".

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

IMPLEMENT IDENTIFICATION

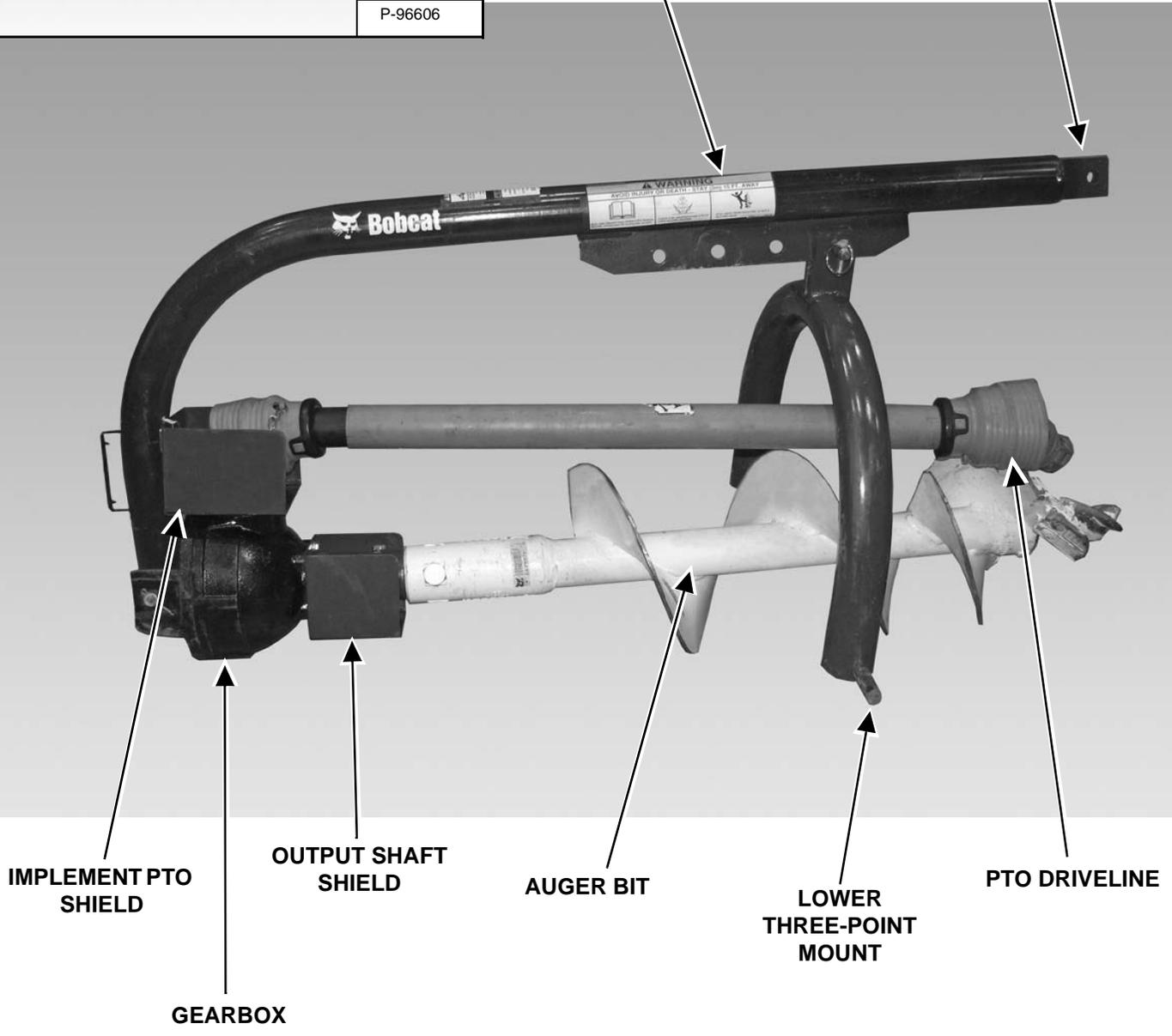
**LIGHT DUTY BIT
ADAPTER
(OPTIONAL)**



P-96606

MAIN FRAME

**UPPER
THREE-POINT
MOUNT**



**IMPLEMENT PTO
SHIELD**

**OUTPUT SHAFT
SHIELD**

AUGER BIT

**LOWER
THREE-POINT
MOUNT**

PTO DRIVELINE

GEARBOX

P-96773

SAFETY & MAINTENANCE

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TROUBLESHOOTING

Chart

 WARNING	<p>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.</p> <p style="text-align: right;">W-2003-0903</p>
--------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

PROBLEM	CAUSE	CORRECTION
Auger bit does not dig efficiently.	Worn or damaged auger teeth.	Replace teeth.
Auger bit does not rotate.	Worn or damaged key in gear box.	Replace key.
	Broken shear bolt.	Replace shear bolt.



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LUBRICATING THE IMPLEMENT

Lubrication Locations

IMPORTANT

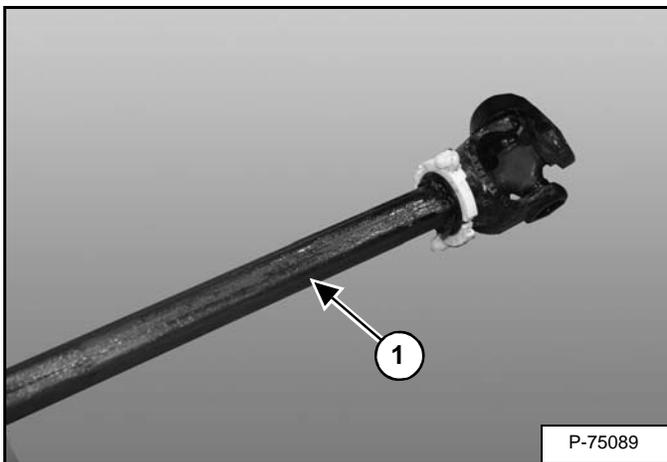
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

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

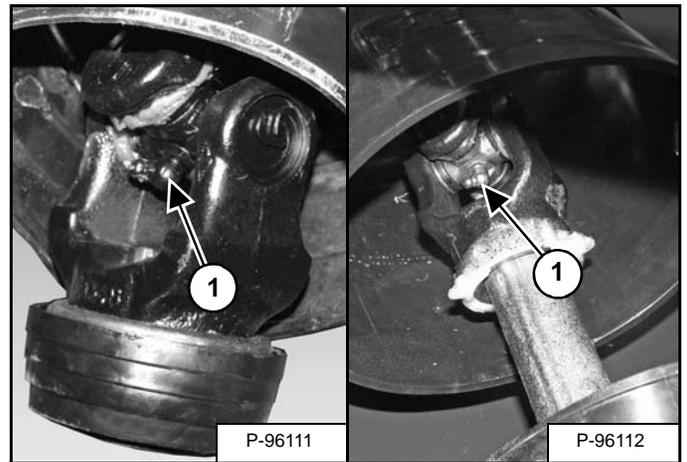
Lubricate the following **every 10 hours** of operation.

Figure 10-20-1



Apply grease to the PTO driveline (Item 1) [Figure 10-20-1].

Figure 10-20-2



Lubricate the u-joint fittings (Item 1) [Figure 10-20-2] on both ends of the PTO driveline.

NOTE: If the telescoping parts of the driveline are allowed to become dirty or dry, the driveline will bind, greatly reducing the life of the U-joints and keep the auger bit from going into the ground smoothly.

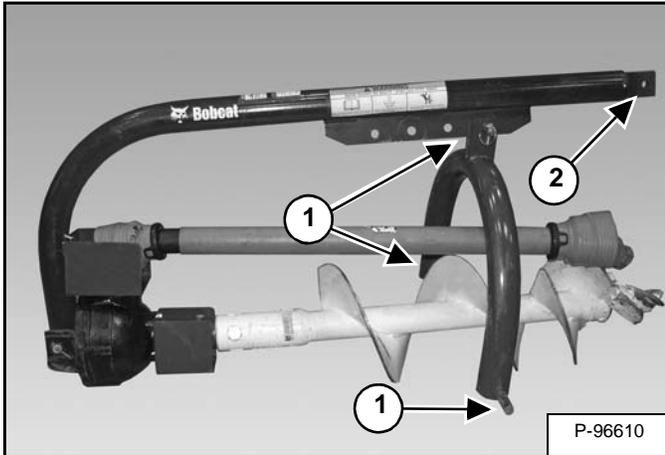


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DAILY INSPECTION

Implement Mounting Frame

Figure 10-30-1



Inspect the lower three-point mounts (Item 1) and upper three-point mount (Item 2) **[Figure 10-30-1]** and all welds on the implement for wear and damage each time the implement is removed from the machine.

Frequently inspect the implement to ensure that all components are secure and that all bolts and nuts are thoroughly tightened.

Repair or replace damaged parts.

DAILY INSPECTION (CONT'D)

Three-Point 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.

W-2568-0907

! 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

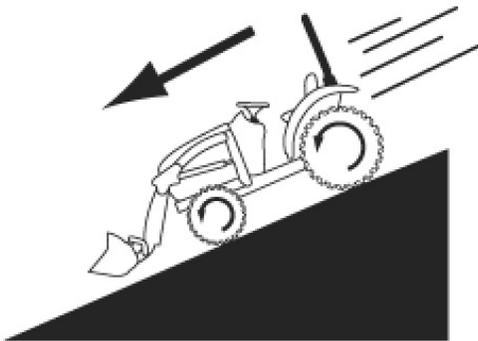
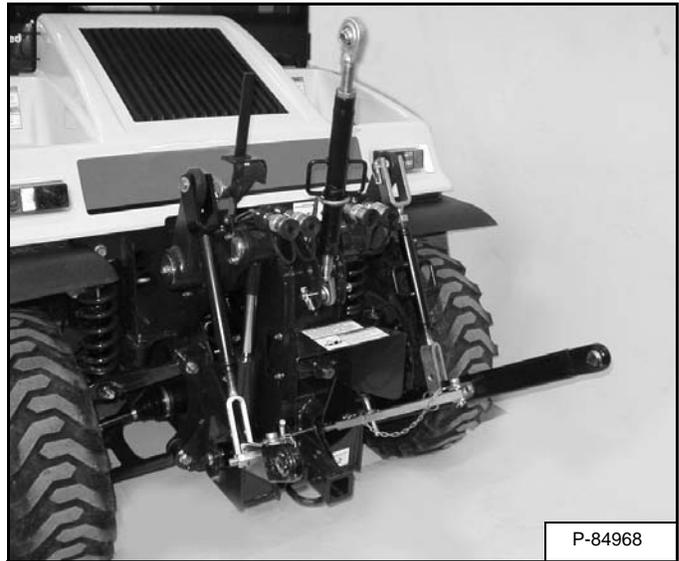


Figure 10-30-2



Figure 10-30-3



Inspect the three-point hitch linkage, PTO shaft splines, guards, and shields. Replace if damaged or missing [Figure 10-30-2] or [Figure 10-30-3]. Repair broken or loose parts.

See the machine's Operation & Maintenance Manual and Operator's Handbook for detailed information on inspecting three-point hitch.

REGULAR MAINTENANCE ITEMS

Gearbox Lubricant

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

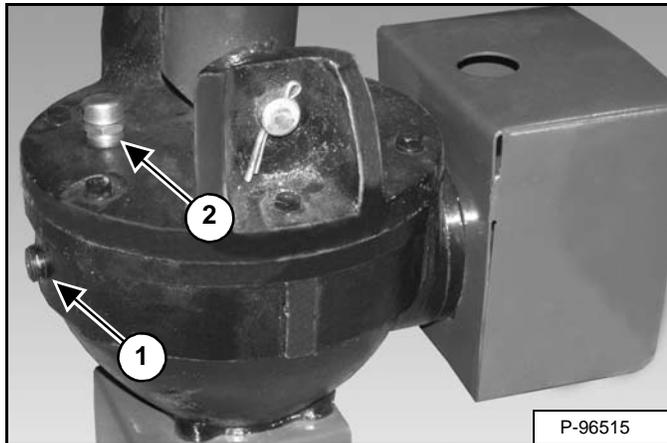
WARNING

AVOID INJURY OR DEATH

Securely block up the implement before working underneath.

W-2565-0207

Figure 10-40-1



NOTE: When checking or adding oil, the gearbox must be level and the vent / fill plug hole facing upward.

Check for proper oil level in the gearbox **every 10 hours** of operation. Remove oil level plug (Item 1) [Figure 10-40-1]. If oil is level with oil level plug hole reinstall plug.

If oil is not level with oil level plug hole, remove vent / fill plug (Item 2) [Figure 10-40-1]. Add (80W-90 Gear Lube) until oil is level with oil level plug hole. Reinstall the plugs.



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REMOVAL AND INSTALLATION OF AUGER TEETH

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.

W-2019-0907

! WARNING

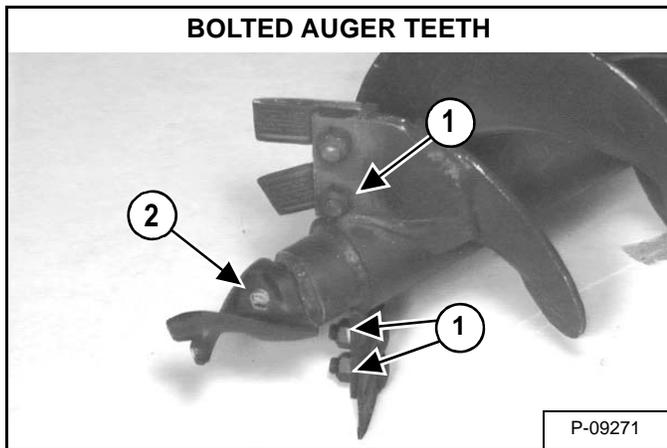
AVOID INJURY OR DEATH

Securely block up the implement before working underneath.

W-2565-0207

Replace the bolted auger teeth as follows:

Figure 10-50-1



Remove the nuts and bolts (Item 1) [Figure 10-50-1]. Replace the nuts and bolts when replacing teeth.

Remove the nut and bolt (Item 2) [Figure 10-50-1] to replace the point tooth. Replace the nut and bolt when replacing the tooth.

! WARNING

AVOID INJURY

DO NOT sharpen the carbide tips. DO NOT strike the carbide tips with a hammer, the carbide tips can break and hit you causing eye or bodily injury.

W-2189-0595



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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.
- Lubricate the implement.
- Put grease on the auger teeth.
- Inspect the three-point 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:

- Be sure all shields and guards are in place.
- Lubricate the implement.
- Remove grease from auger teeth.
- Check for loose hardware, missing or damaged parts.
- Check for leaks. Repair as needed.
- Check oil level in the gearbox.
- Install and operate implement, check for correct function.



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MAINFRAME

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Installation	20-10-2
AUGER (STANDARD BIT)	20-20-1
Removal	20-20-1
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AUGER (LIGHT DUTY BIT)	20-21-1
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Removal	20-30-1
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Parts Identification	20-30-4
Inspection	20-30-5
Disassembly	20-30-6
Assembly	20-30-9



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PTO DRIVELINE

Removal

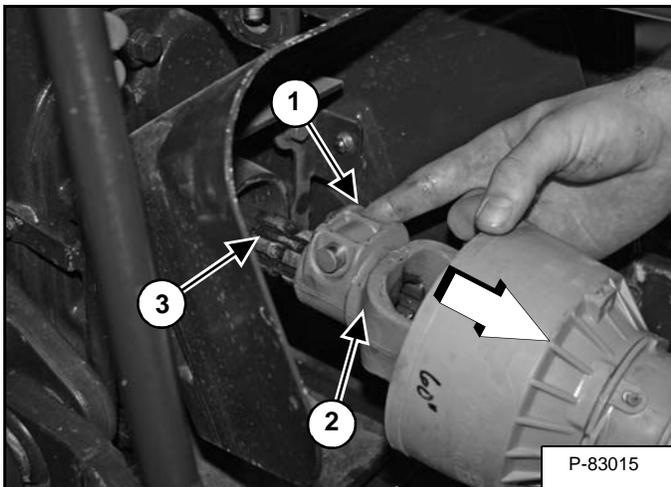
Always park on flat level ground. Lower the three-point hitch until the point of the auger contacts the ground. (See the machine's Operation & Maintenance Manual for detailed information on operating the three-point hitch.)

Stop the engine and exit the machine. (See the machine's Operation & Maintenance Manual for detailed information on entering and exiting the machine.)

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

Disconnect the PTO driveline from the machine.

Figure 20-10-1



Press the pin (Item 1) and pull the PTO driveline (Item 2) off the machine's PTO rear-drive shaft (Item 3) [Figure 20-10-1].

WARNING

AVOID INJURY OR DEATH

- Keep PTO shields and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.
- Do NOT exceed 300 rear - PTO RPM.

W-2878-0610



WARNING

AVOID INJURY OR DEATH

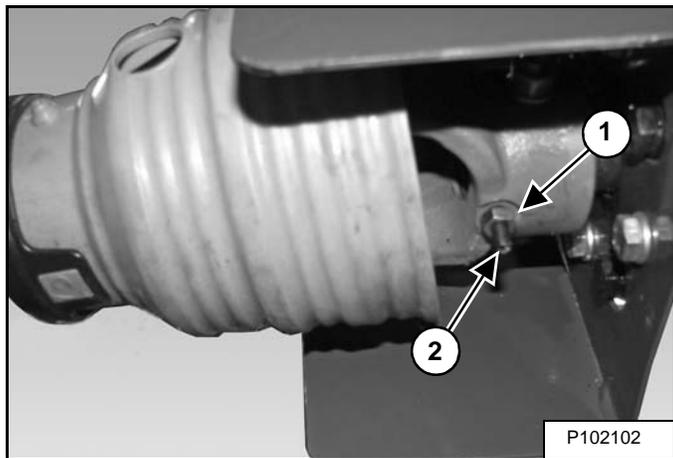
Wear safety glasses to prevent eye injury when any of the following conditions exist:

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

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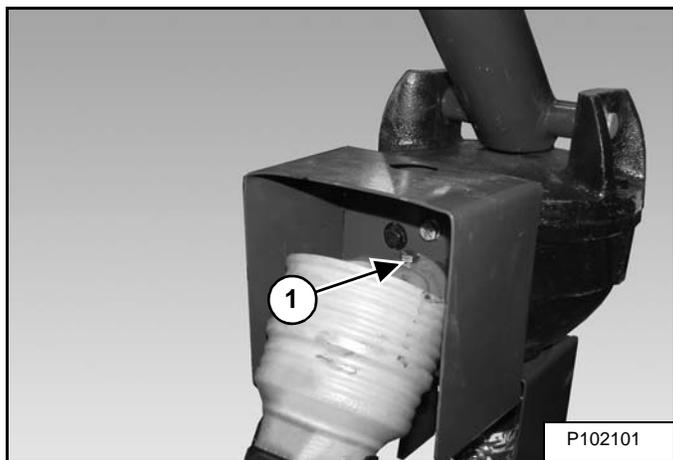
Disconnect the PTO driveline from the three-point auger.

Figure 20-10-2



Loosen the jam nut (Item 1) and remove or loosen the set screw (Item 2) [Figure 20-10-2].

Figure 20-10-3



Remove the nut and bolt (Item 1) [Figure 20-10-3]. Remove the PTO driveline from the three-point auger.



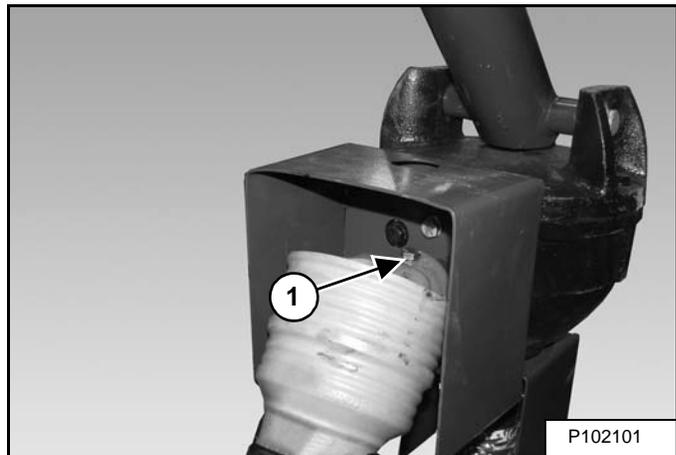
AVOID INJURY OR DEATH

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.

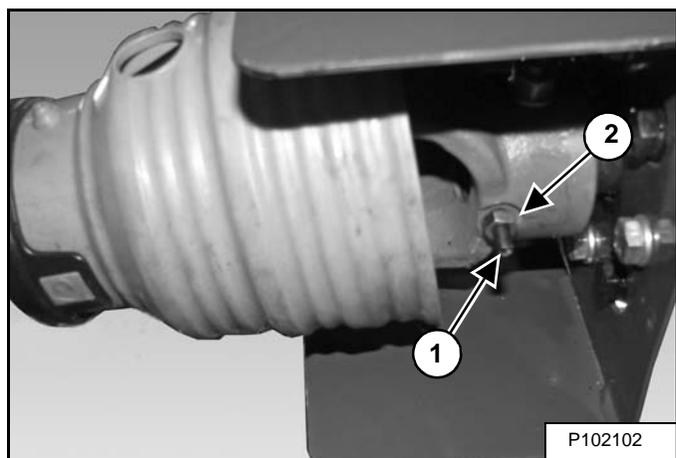
W-2019-0907

Figure 20-10-4



Install the PTO driveline onto the three-point implement. Install the bolt and nut (Item 1) [Figure 20-10-4]. Tighten bolt and nut.

Figure 20-10-5



Install the set screw (Item 1) and jam nut (Item 2) [Figure 20-10-5]. Tighten the set screw and then tighten jam nut.