



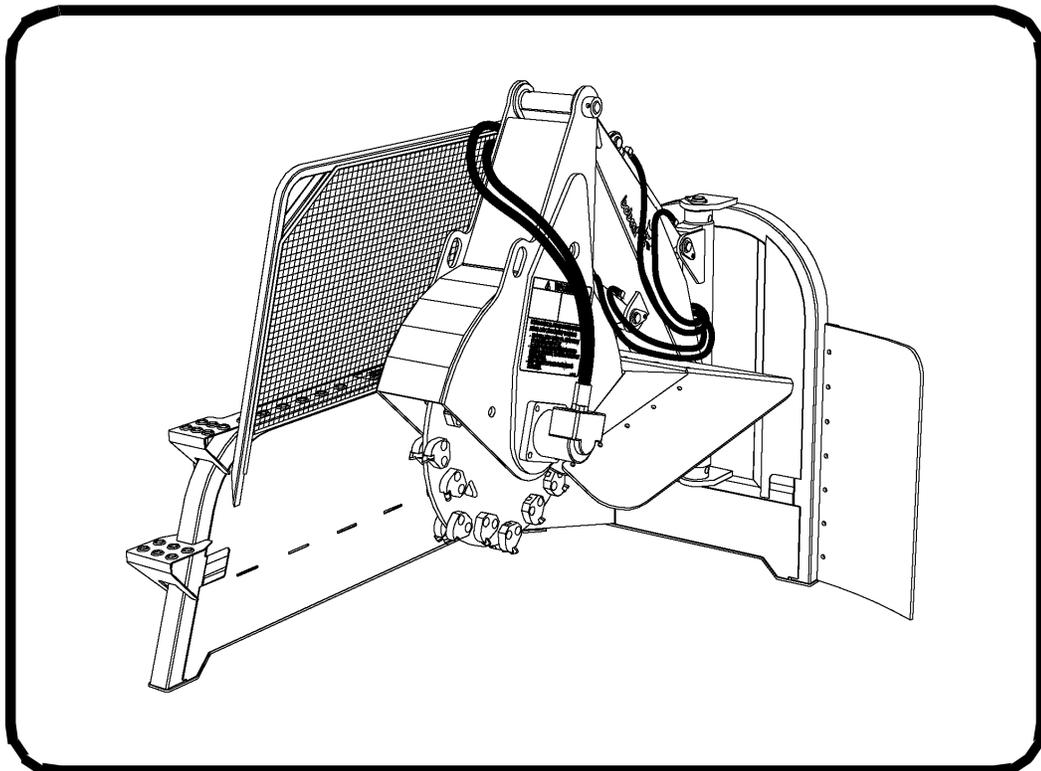
# Bobcat®

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## Service Manual Stump Grinder

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**(SG30) S/N 005600101 & Above**  
**(SG60) S/N 233000101 & Above**  
**(SGX60) S/N A00700101 & Above**



Sample of manual. Download All 254 pages at:

<https://www.arepairmanual.com/downloads/2011-bobcat-stump-grinder-sg30-sg60-sgx60-service-repair-workshop-manualsg30-6901091-4-11/>

Product: 2011 Bobcat Stump Grinder SG30/SG60/SGX60 Service Repair Workshop Manual(SG30 S/N 005600101 & Above,SG  
Full Download: [https://www.arepairmanual.com/downloads/2011-bobcat-stump-gr  
inder-sg30-sg60-sgx60-service-repair-workshop-manualsg30-s-n  
-005600101-abovesg60-s-n-233000101-abovesgx60-s-n-a00700101-  
above-6901091-4-11/](https://www.arepairmanual.com/downloads/2011-bobcat-stump-grinder-sg30-sg60-sgx60-service-repair-workshop-manualsg30-s-n-005600101-abovesg60-s-n-233000101-abovesgx60-s-n-a00700101-above-6901091-4-11/)

Sample of manual. Download All 254 pages at:  
<https://www.arepairmanual.com/downloads/2011-bobcat-stump-grinder-sg30-sg60-sgx60-service-repair-workshop-manualsg30>

# MAINTENANCE SAFETY



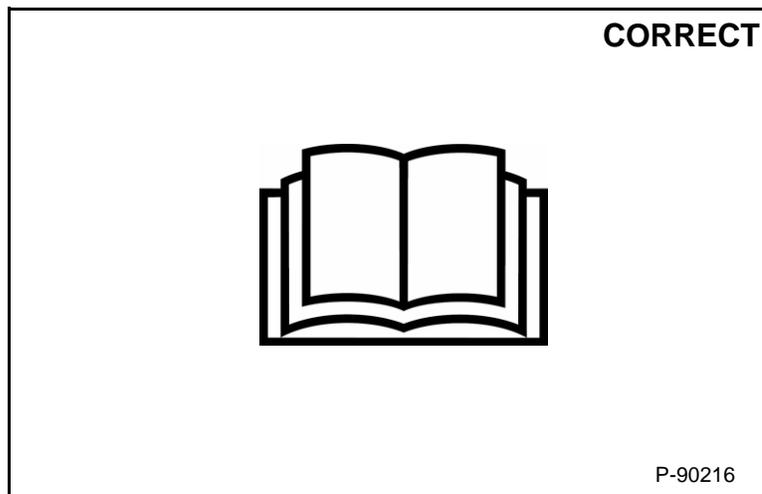
## WARNING

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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## FOREWORD

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## SERIAL NUMBER LOCATION

### Attachment Serial Number

Always use the serial number of the Stump Grinder 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

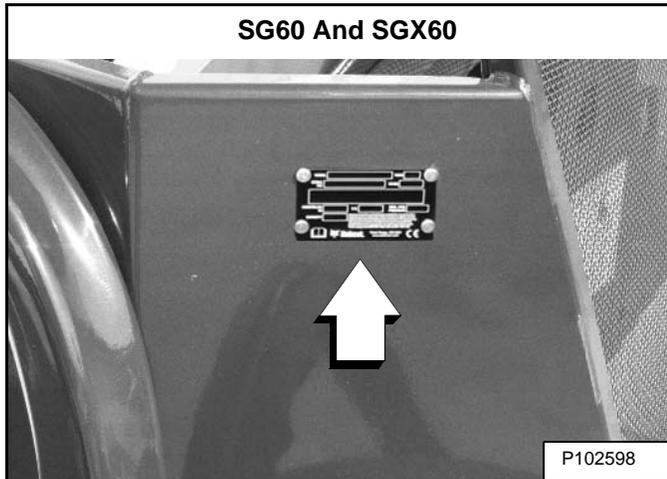
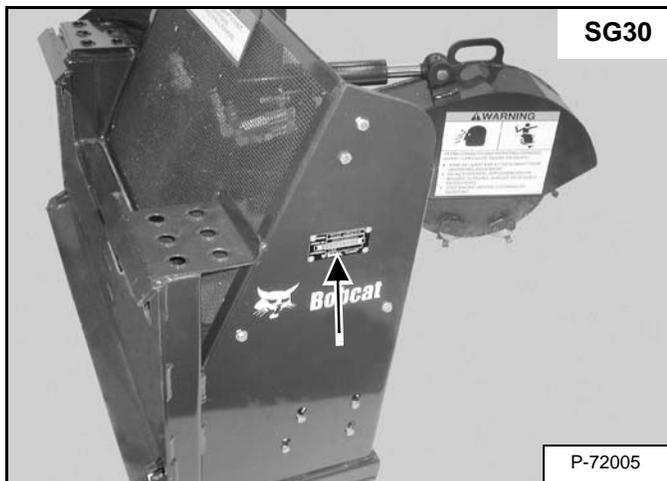


Figure 2



## DELIVERY REPORT

Figure 3

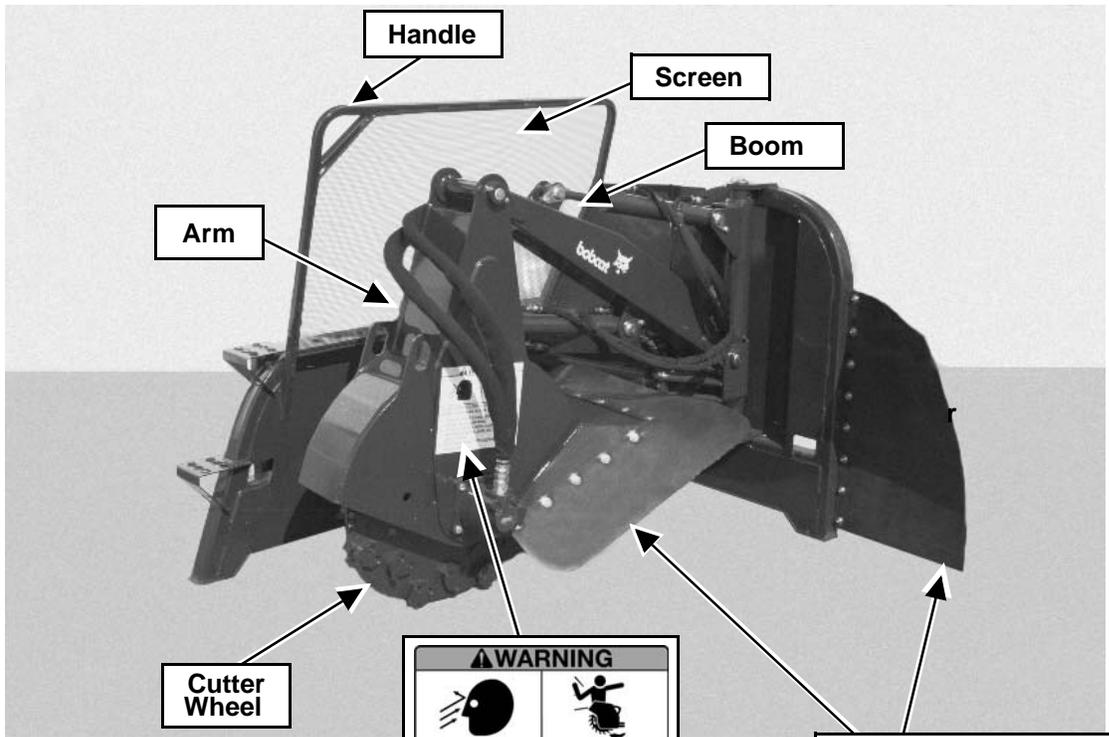
DELIVERY REPORT

WARNING

P-20022

The delivery report [Figure 3] must be completed by the dealer and signed by the owner or operator when the Bobcat chipper is delivered. An explanation of the form must be given to the owner.

**ATTACHMENT IDENTIFICATION (SG60 AND SGX60)**



**WARNING**

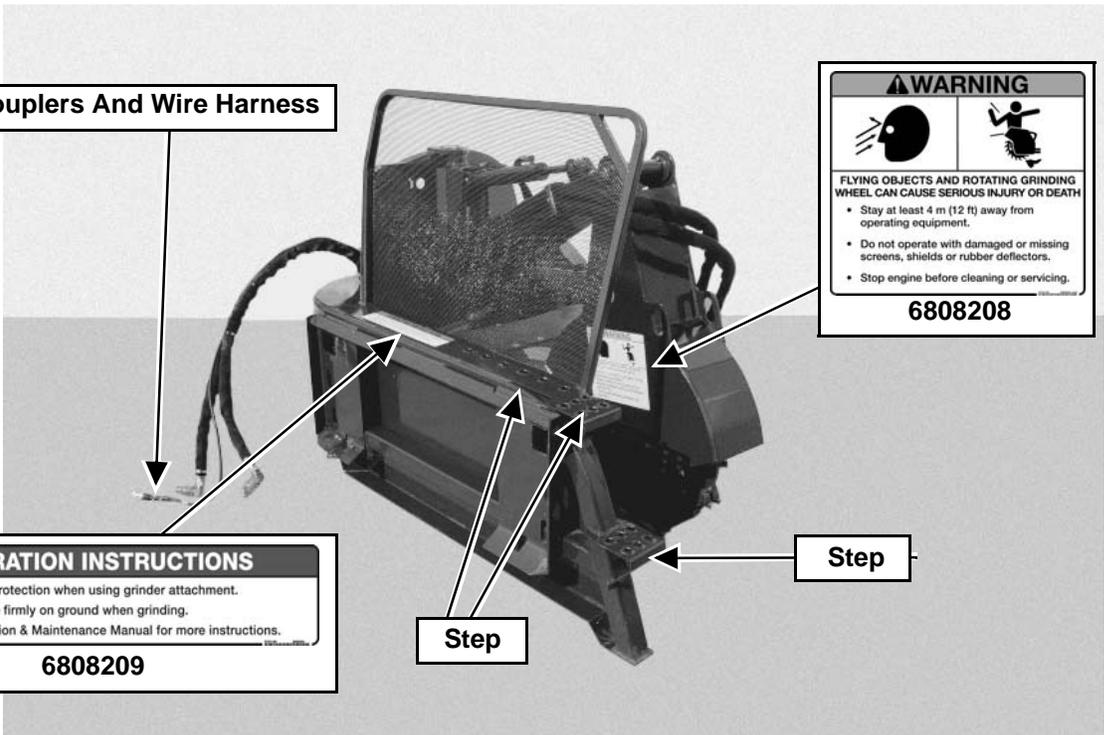
**FLYING OBJECTS AND ROTATING GRINDING WHEEL CAN CAUSE SERIOUS INJURY OR DEATH**

- Stay at least 4 m (12 ft) away from operating equipment.
- Do not operate with damaged or missing screens, shields or rubber deflectors.
- Stop engine before cleaning or servicing.

**6808208**

**Rubber Debris Shield**

**Quick Couplers And Wire Harness**



**WARNING**

**FLYING OBJECTS AND ROTATING GRINDING WHEEL CAN CAUSE SERIOUS INJURY OR DEATH**

- Stay at least 4 m (12 ft) away from operating equipment.
- Do not operate with damaged or missing screens, shields or rubber deflectors.
- Stop engine before cleaning or servicing.

**6808208**

**OPERATION INSTRUCTIONS**

- Wear eye protection when using grinder attachment.
- Keep frame firmly on ground when grinding.
- See Operation & Maintenance Manual for more instructions.

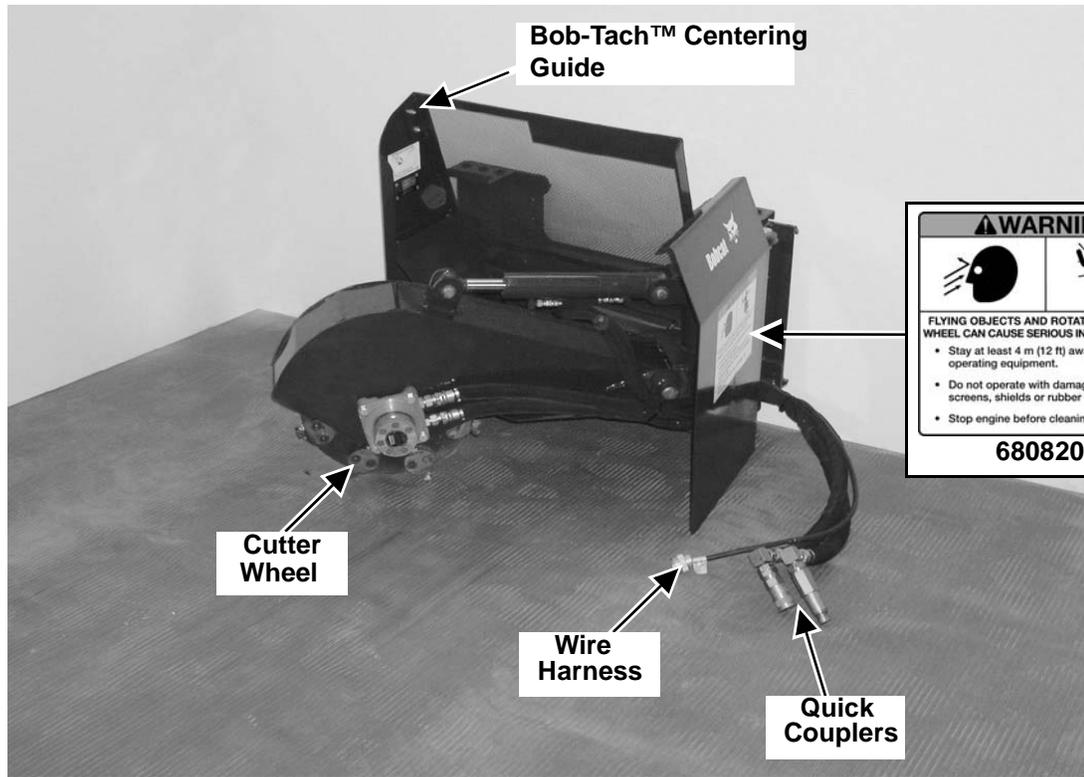
**6808209**

**Step**

**Step**

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P-15981

ATTACHMENT IDENTIFICATION (SG30)

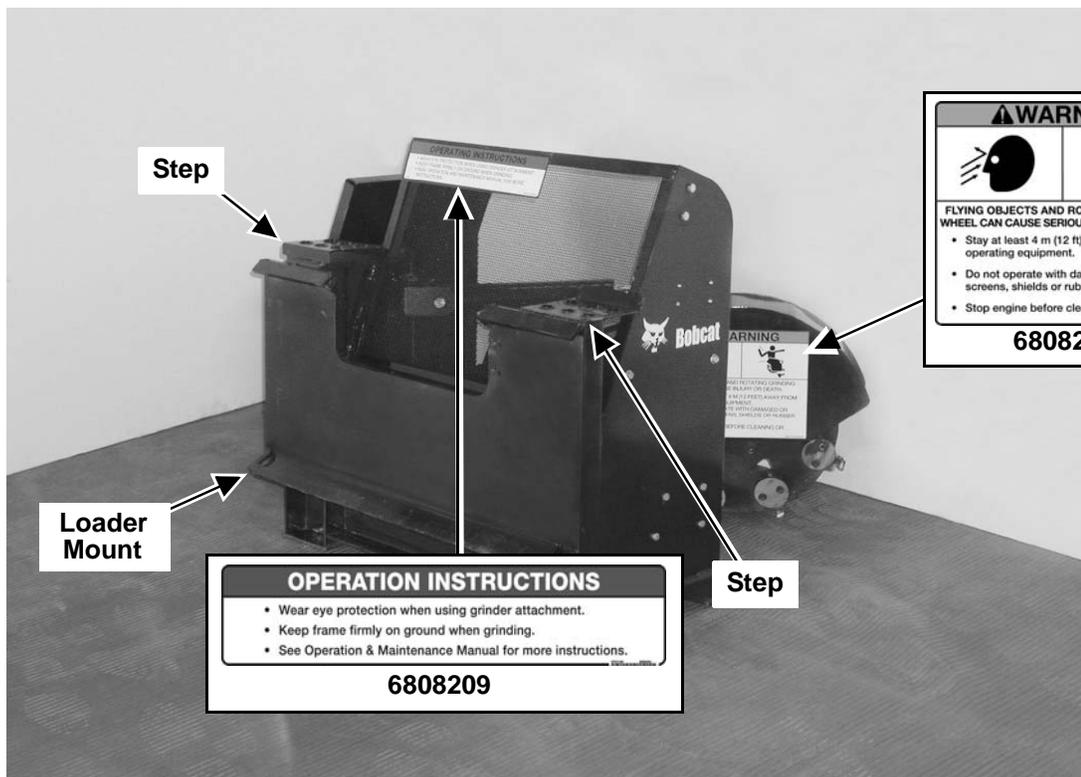


**WARNING**

**FLYING OBJECTS AND ROTATING GRINDING WHEEL CAN CAUSE SERIOUS INJURY OR DEATH**

- Stay at least 4 m (12 ft) away from operating equipment.
- Do not operate with damaged or missing screens, shields or rubber deflectors.
- Stop engine before cleaning or servicing.

**6808208**



**WARNING**

**FLYING OBJECTS AND ROTATING GRINDING WHEEL CAN CAUSE SERIOUS INJURY OR DEATH**

- Stay at least 4 m (12 ft) away from operating equipment.
- Do not operate with damaged or missing screens, shields or rubber deflectors.
- Stop engine before cleaning or servicing.

**6808208**

**OPERATION INSTRUCTIONS**

- Wear eye protection when using grinder attachment.
- Keep frame firmly on ground when grinding.
- See Operation & Maintenance Manual for more instructions.

**6808209**

P-47912  
P-47913



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## TROUBLESHOOTING

### Chart

 <b style="font-size: 24pt; margin-left: 10px;">WARNING</b>	<p><b>Instructions are necessary before operating or servicing machine. Read and understand the Operation &amp; 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.</b></p> <p style="text-align: right; font-size: 10pt;">W-2003-0903</p>
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If the stump grinder is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the stump grinder. Stump grinder 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 stump grinder.

PROBLEM	CAUSE	CORRECTION
Stump grinder cut is inadequate.	Cutting teeth worn or missing.	Replace the cutting teeth.
Noisy motor (with load).	Vibration; loose bolts.	Check torque.
Noisy motor (with no load).	Humming; worn bearings.	Replace bearings.
External oil leaks.	Motor case pressure too high.	Check the quick couplers.
	Damaged O-rings.	Replace O-rings as needed.
Loaded motor does not turn at normal speed.	Not enough hydraulic flow.	Check pump flow and rotation speed.
	Internal leaks.	Check cylinders and valve block assembly.  Check motor.
Cutter motor does not rotate.	Front auxiliary hydraulics not engaged.	Engage the loader front auxiliary.
	Couplers are reversed.	Switch couplers.
	Excessive hydraulic leakage.	Check hoses and valve block.
	Hydraulic leaks.	Check cylinders and valve block assembly.  Check pump drive and pump inlet.
	No hydraulic flow.	Check valves for damage or corrosion.
Cutter wheel hops.	Cutting teeth worn or missing.	Replace the cutting teeth.
	Cutting teeth setting wrong.	Reset cutting teeth.
Cutter wheel stalls.	Relief valve for boom swing cylinder set too high.	Replace relief valve.
	Cutting depth too deep.	Raise boom.
	Plug orifice blocked.	Check hydraulic lines and valve.
Swing cylinder stalls.	Relief pressure set too low.	Replace relief valve.
Relief valve chatters.	Relief pressure set too low.	Replace relief valve.



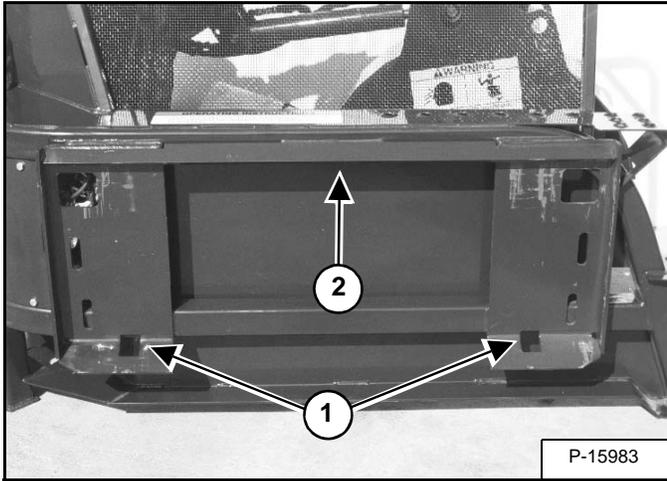
**Bobcat**®

## DAILY INSPECTION

### Attachment Mounting Frame

SG60 And SGX60

Figure 10-20-1

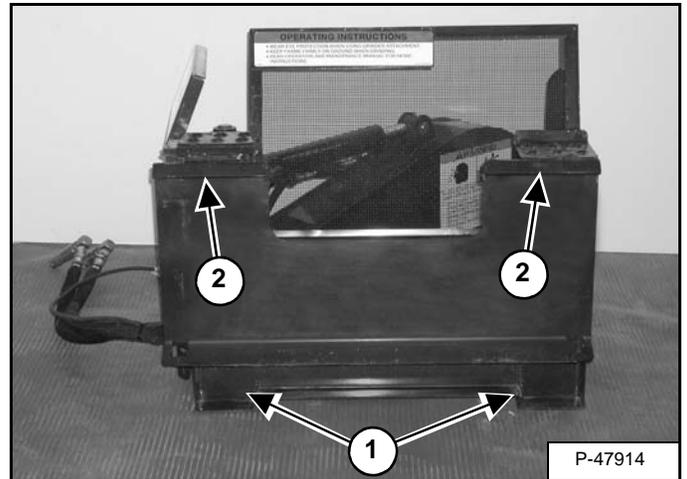


Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) [Figure 10-20-1] and all welds on the stump grinder for wear and damage each time the stump grinder is removed from the loader.

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

SG30

Figure 10-20-2



Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) [Figure 10-20-2] and all welds on the stump grinder for wear and damage each time the stump grinder is removed from the loader.

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

## DAILY INSPECTION (CONT'D)

### Bob-Tach

Hand Lever Bob-Tach

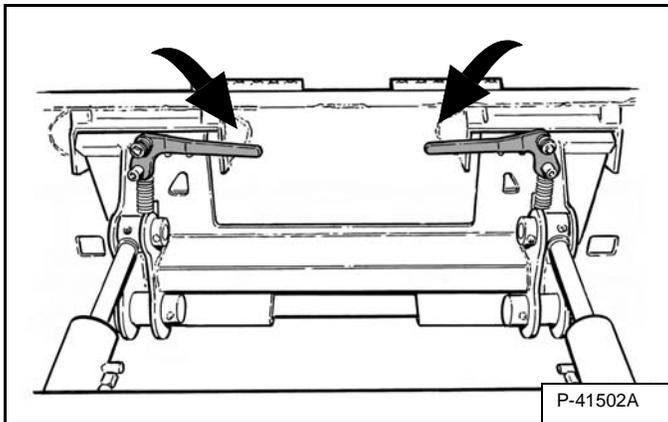
# ! WARNING

## AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

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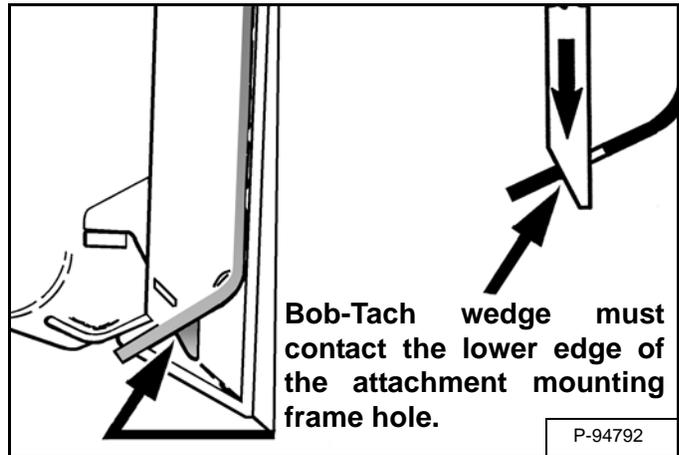
Figure 10-20-3



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 10-20-3] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-20-3].

Figure 10-20-4



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-4].

**NOTE:** If the wedge does not contact the lower edge of the hole, the attachment will be loose and can come off the Bob-Tach.

Inspect the mounting frame on the stump grinder. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the machine's Operation & Maintenance Manual for the correct procedure.)

## DAILY INSPECTION (CONT'D)

### Bob-Tach (Cont'd)

Power Bob-Tach



#### AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

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Figure 10-20-5

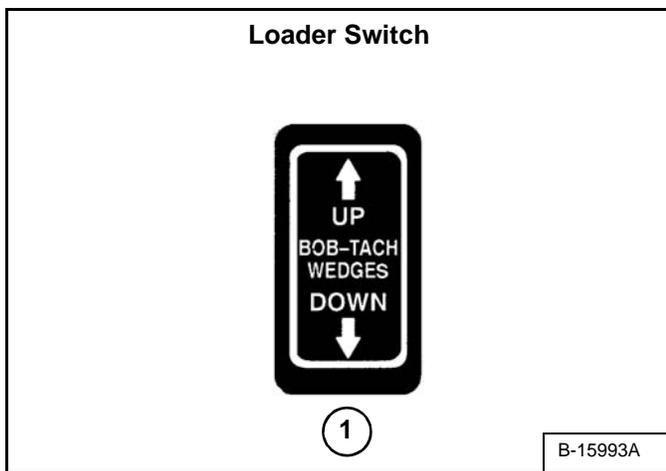


Figure 10-20-6

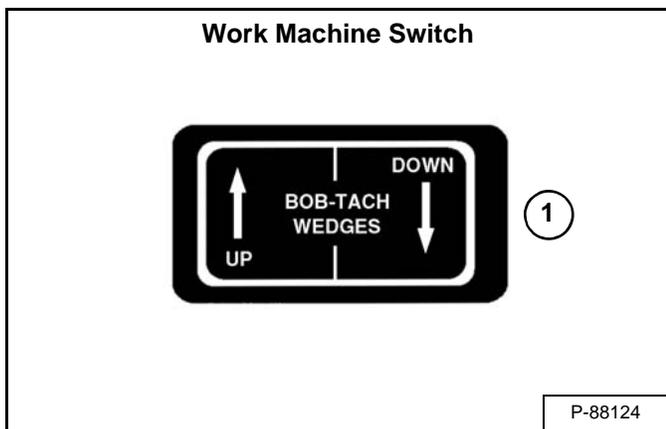
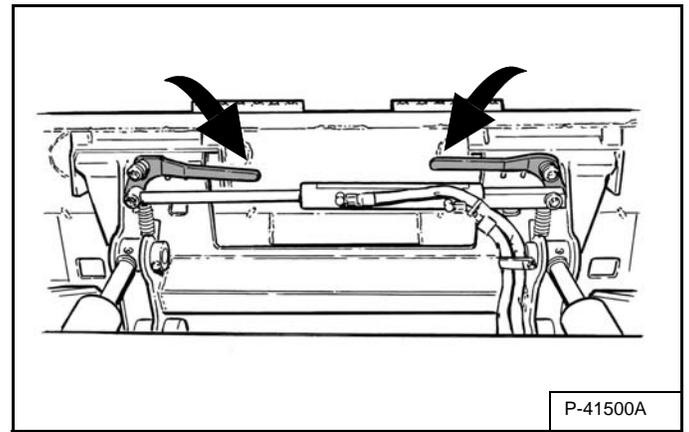
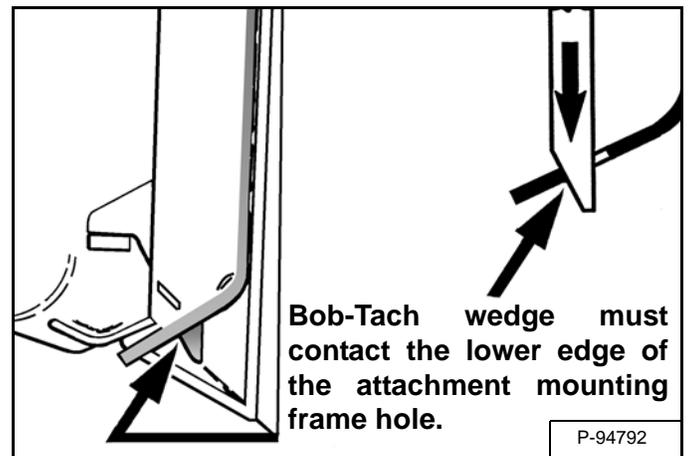


Figure 10-20-7



Push and hold the BOB-TACH “WEDGES DOWN” switch (Item 1) [Figure 10-20-5] or [Figure 10-20-6] until the levers are fully engaged in the locked position [Figure 10-20-7] (wedges fully extended through the attachment mounting frame holes).

Figure 10-20-8



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-8].

**NOTE:** If the wedge does not contact the lower edge of the hole, the attachment will be loose and can come off the Bob-Tach.

Inspect the mounting frame on the stump grinder. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the machine's Operation & Maintenance Manual for the correct procedure.)

## DAILY INSPECTION (CONT'D)

### Rubber Debris Shield Inspection

SG60 And SGX60

Figure 10-20-9

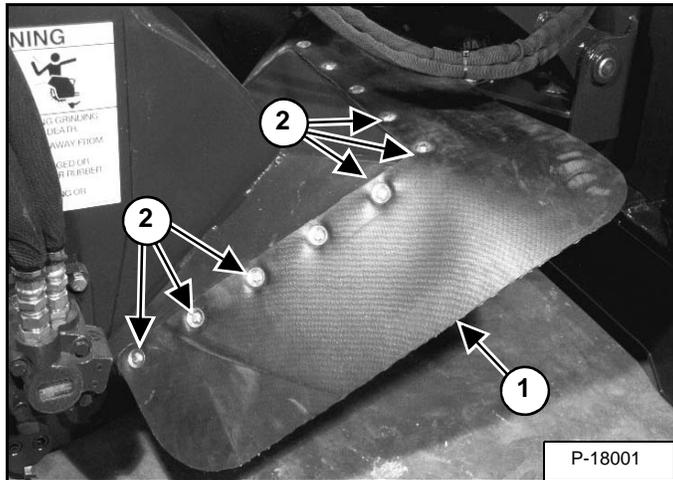
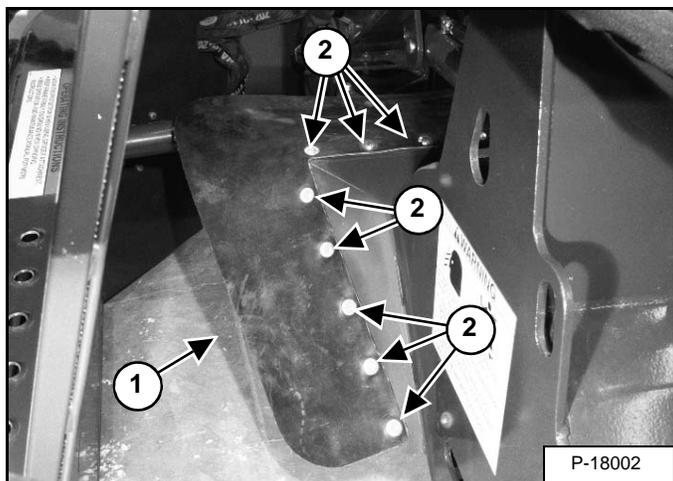


Figure 10-20-10

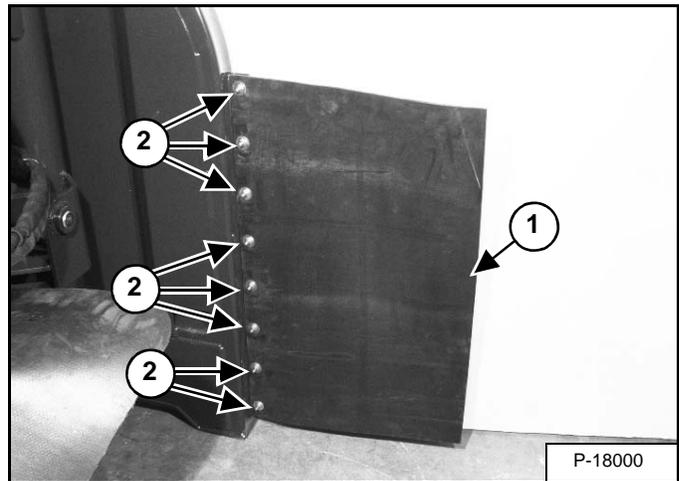


Inspect the cutter wheel rubber debris shield (Item 1) [Figure 10-20-9] and [Figure 10-20-10].

Replace the shield when damaged or worn by removing the fifteen bolts, washers and nuts (Item 2) [Figure 10-20-9] and [Figure 10-20-10].

**Installation:** Tighten the bolts to 9 - 10 N•m (80 - 90 in-lb) torque.

Figure 10-20-11

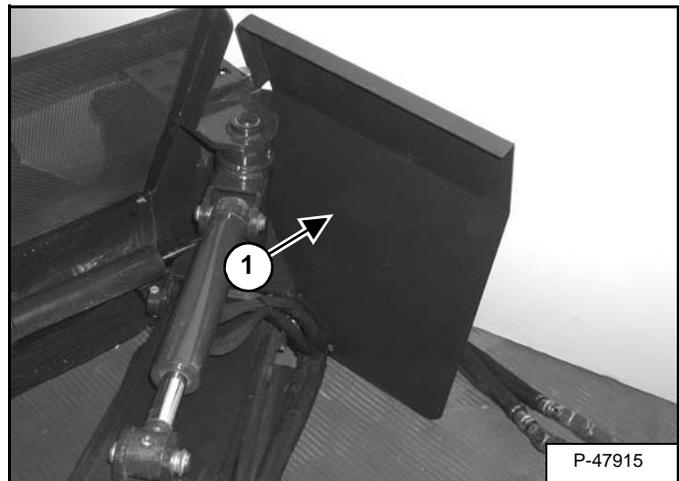


Inspect the side rubber debris shield (Item 1). Replace the shield when damaged or worn by removing the eight bolts, washers and nuts (Item 2) [Figure 10-20-11].

**Installation:** Tighten the bolts to 9 - 10 N•m (80 - 90 in-lb) torque.

SG30

Figure 10-20-12



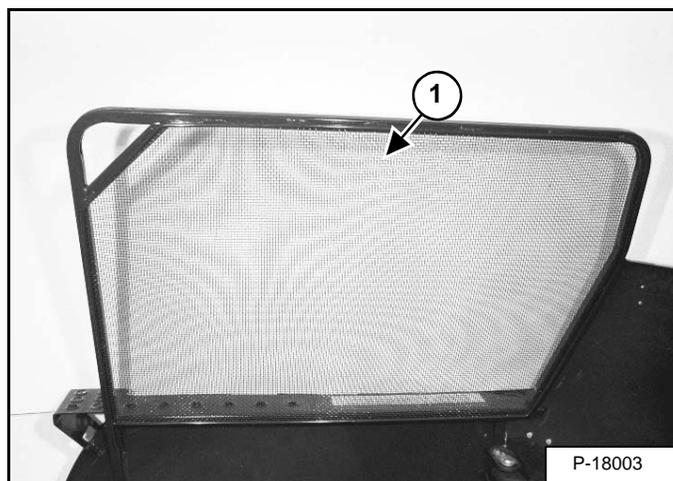
Inspect the debris shield (Item 1) [Figure 10-20-12].

## DAILY INSPECTION (CONT'D)

### Screen Inspection

SG60 And SGX60

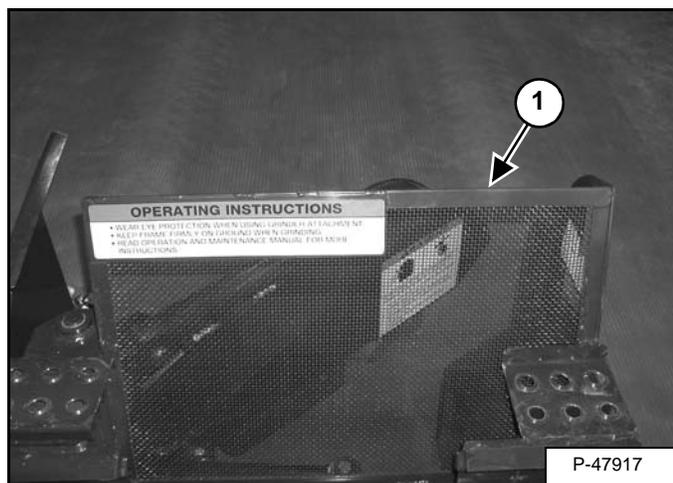
Figure 10-20-13



Inspect the screen (Item 1) [Figure 10-20-13].

SG30

Figure 10-20-14



Inspect the screen (Item 1) [Figure 10-20-14] for damage.

## DAILY INSPECTION (CONT'D)

### Screen Replacement

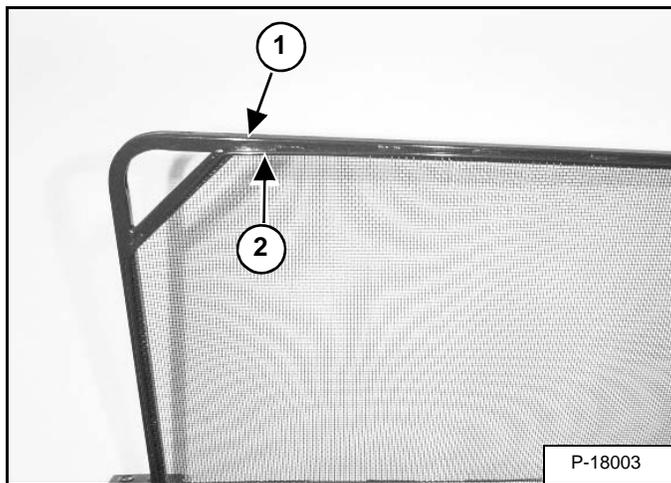
SG60 And SGX60

# WARNING

Eye and body protection is required when welding or grinding. Wear approved goggles, helmet and clothing. Failure to wear eye and body protection can result in serious injury.

W-2009-1285

Figure 10-20-15

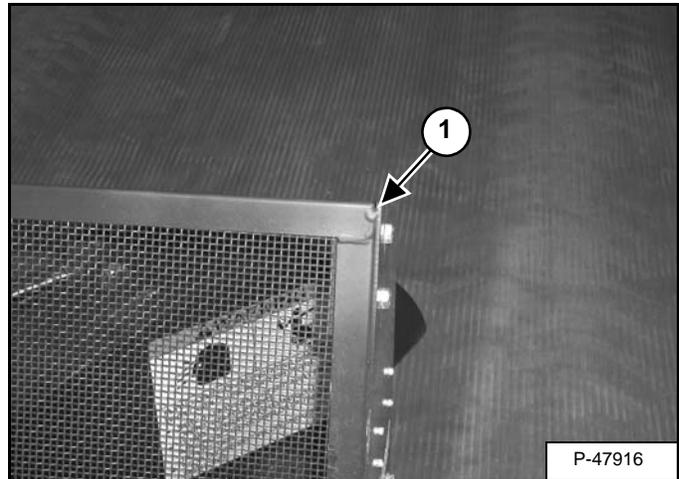


If the screen is damaged, cut the welds (Item 1) and remove the attaching rod (Item 2) [Figure 10-20-15].

Remove the screen. Grind the welds off the frame. Weld a new screen and attaching rod on the support frame. Paint the welds to prevent corrosion.

SG30

Figure 10-20-16



If the screen is damaged, cut the welds (Item 1) [Figure 10-20-16] (both sides on top) and remove the screen from the stump grinder. Grind any remaining welds off the frame. Position the new screen and weld the new screen in the same locations as originally welded. Paint the welds to prevent corrosion.

## LUBRICATING THE ATTACHMENT (SG60 AND SGX60)

### Lubrication Locations

Always use a good quality lithium base grease when lubricating the stump grinder. Apply the lubricant until extra grease shows.

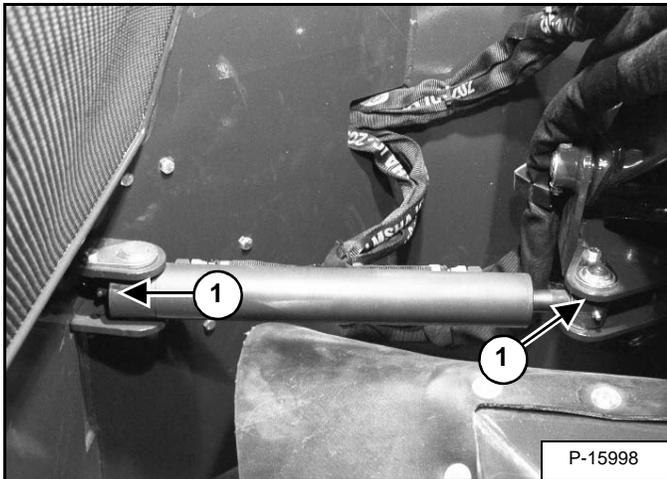
# IMPORTANT

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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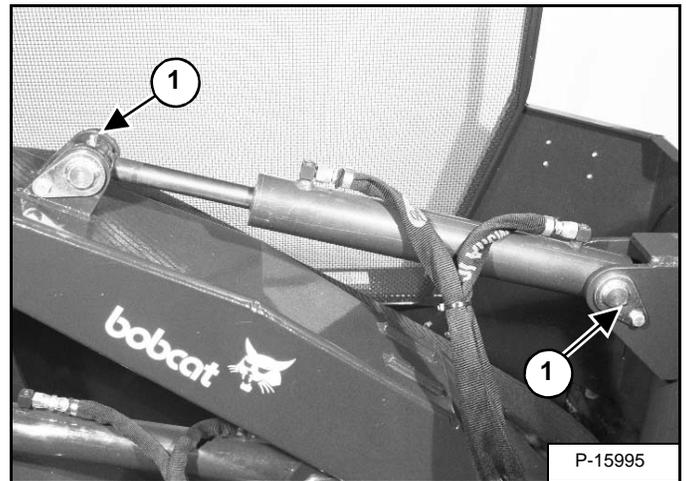
Lubricate the following grease fittings every **8-10 hours**.

Figure 10-30-1



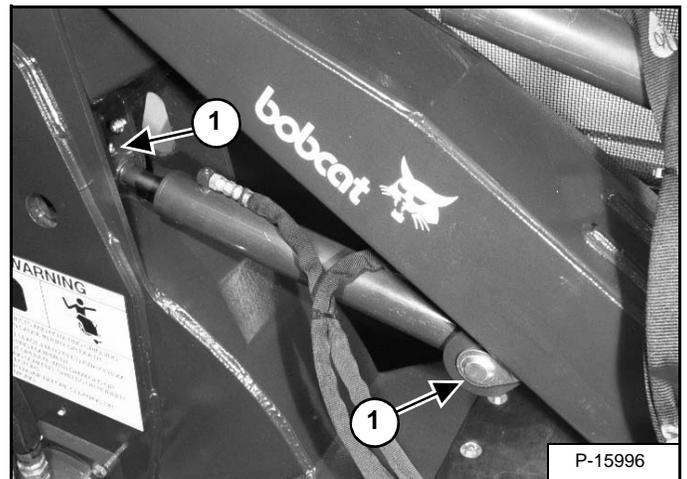
Boom swing cylinder base and rod end (Item 1) [Figure 10-30-1].

Figure 10-30-2



Boom cylinder base and rod end (Item 1) [Figure 10-30-2].

Figure 10-30-3

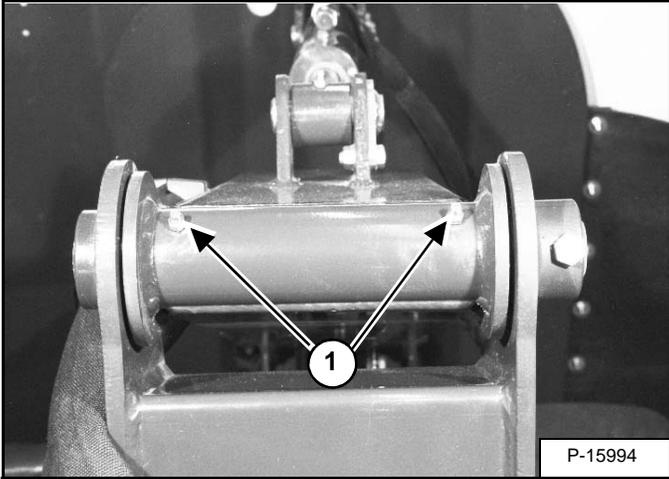


Arm cylinder base and rod end (Item 1) [Figure 10-30-3].

**LUBRICATING THE ATTACHMENT (SG60 AND SGX60) (CONT'D)**

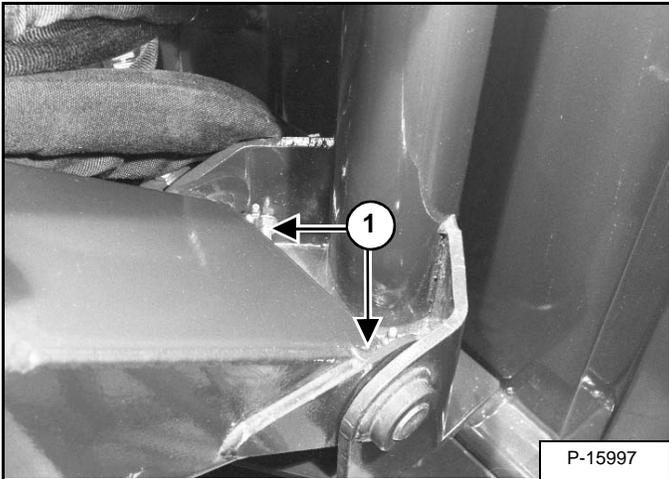
**Lubrication Locations (Cont'd)**

**Figure 10-30-4**



Arm pivot points (Item 1) [Figure 10-30-4].

**Figure 10-30-5**



Boom pivot point (Item 1) [Figure 10-30-5].

**Figure 10-30-6**



Boom swing pivot points (Item 1) [Figure 10-30-6].

## LUBRICATING THE ATTACHMENT (SG30)

### Lubrication Locations

Always use a good quality lithium base grease when lubricating the stump grinder. Apply the lubricant until extra grease shows.

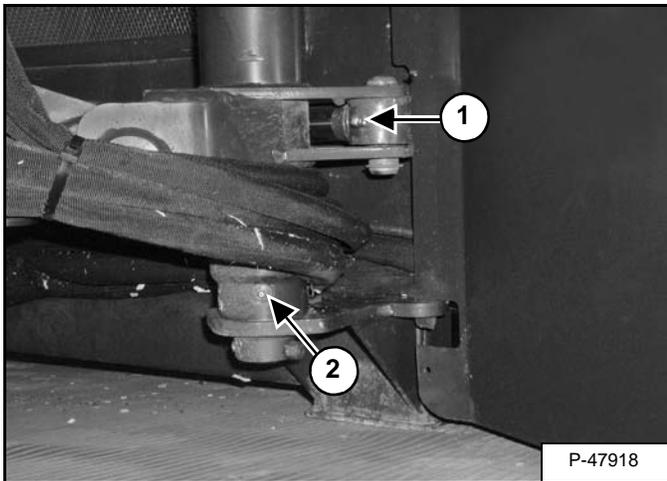
# IMPORTANT

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

Lubricate the following grease fittings every **8-10 hours**.

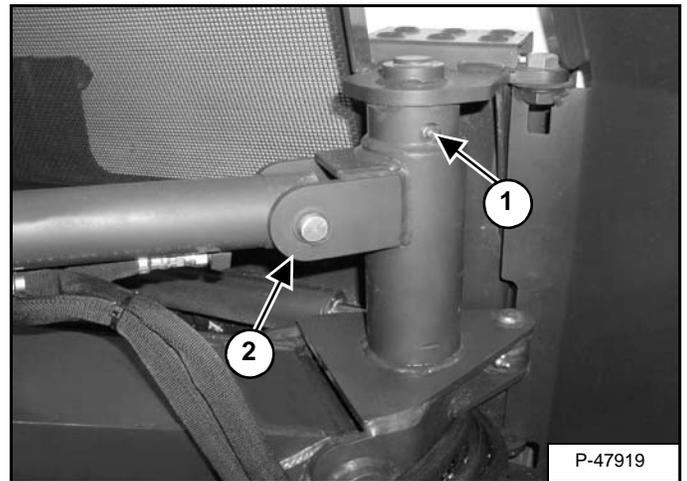
### Figure 10-31-1



Boom swing cylinder rod end (Item 1) [Figure 10-31-1].

Boom swing lower pivot (Item 2) [Figure 10-31-1].

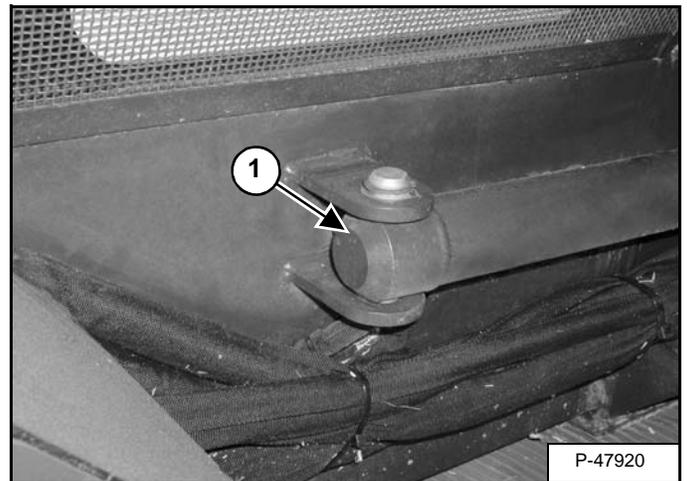
### Figure 10-31-2



Boom swing upper pivot (Item 1) [Figure 10-31-2].

Boom cylinder base end (Item 2) [Figure 10-31-2].

### Figure 10-31-3

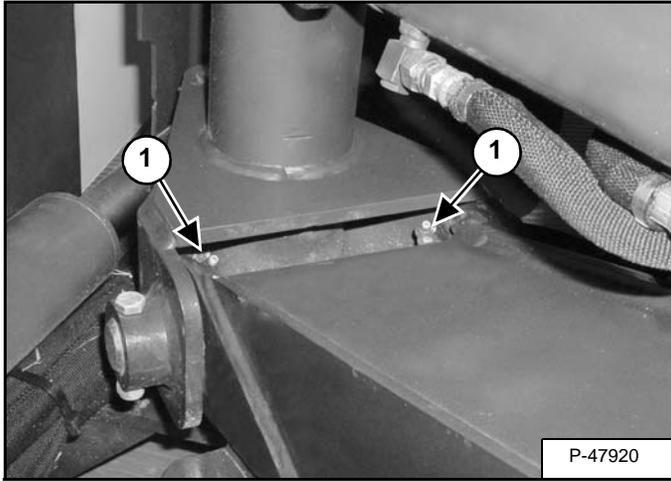


Boom swing cylinder base end (Item 1) [Figure 10-31-3].

## LUBRICATING THE ATTACHMENT (SG30) (CONT'D)

### Lubrication Locations (Cont'd)

Figure 10-31-4



Boom pivot point (Item 1) [Figure 10-31-4].

## CUTTING TEETH (SG60 AND SGX60)

### Removal And Installation

Stop the engine and engage the parking brake.

Unfasten the seat belt, raise the seat bar and exit the loader.

Disconnect the auxiliary hydraulic hoses at the loader couplers.

The procedure is the same for both types of teeth except as noted below.

**Installation:** Standard Teeth; tighten the bolts to 237 N•m (175 ft-lb) torque.

**Installation:** Optional Teeth; tighten the bolts to 176 - 190 N•m (130 - 140 ft-lb) torque.

**NOTE:** Thoroughly clean the side and front surface of the cutter wheel of all debris before installing new teeth. The teeth must fit flush to the cutter wheel surface with no obstructions.



### AVOID INJURY OR DEATH

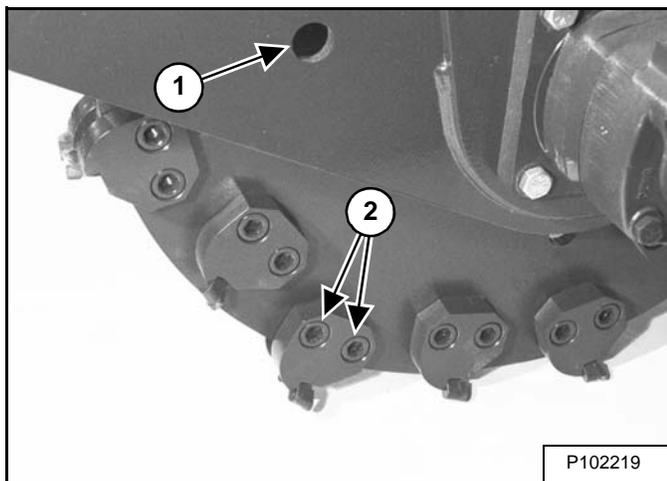
Before you leave the operator's seat:

- Lower the lift arms and put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise the seat bar.
- Move all controls to the **NEUTRAL / LOCKED** position to make sure the lift, tilt and traction drive functions are deactivated.

The seat bar system must deactivate these functions when the seat bar is up. See your Bobcat dealer for service if controls do not deactivate.

W-2463-1110

Figure 10-40-1



Install a bar through the hole in the frame (Item 1) [Figure 10-40-1] and through the hole in the cutter wheel to prevent the wheel from turning.

Remove the two bolts (Item 2) [Figure 10-40-1]. (The standard tooth is shown in photo.)

## CUTTING TEETH (SG60 AND SGX60) (CONT'D)

### Removal And Installation (Cont'd)

Figure 10-40-2

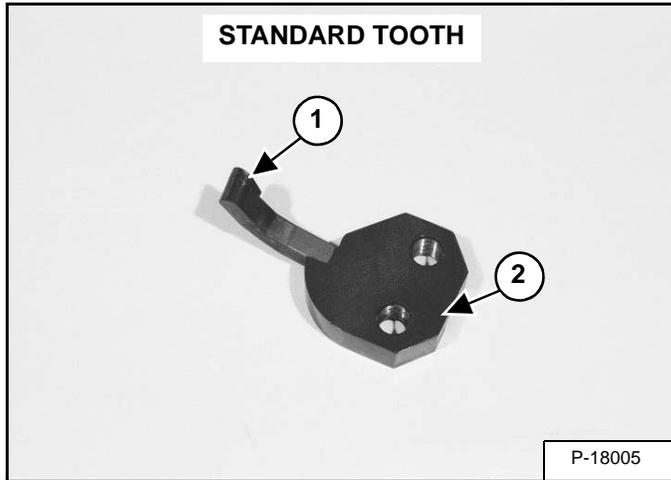
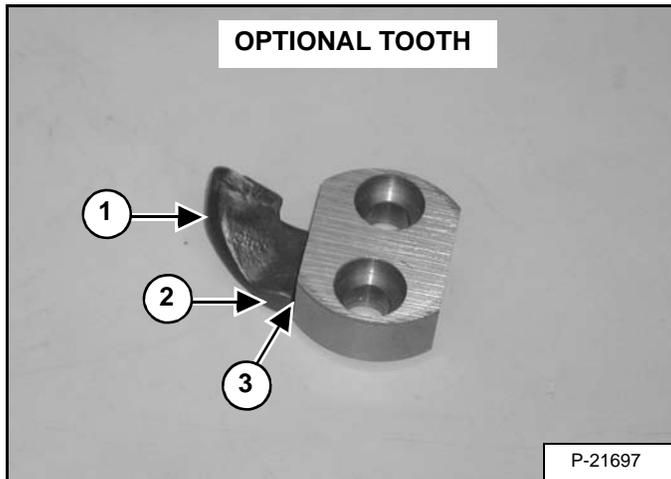


Figure 10-40-3

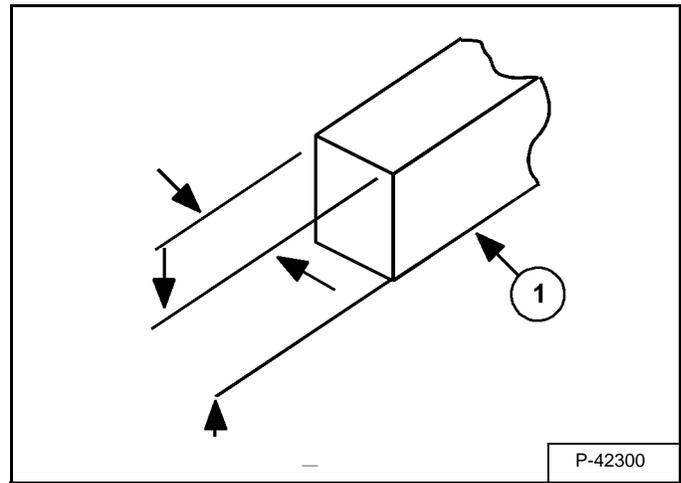


Remove the tooth (Item 1) from the holder [Figure 10-40-2] or [Figure 10-40-3].

**Installation:** Standard Teeth; install the tooth (Item 1) so the end of the tooth shank is flush with the end of the holder (Item 2) [Figure 10-40-2].

**Installation:** Optional Teeth; install the tooth (Item 1) so the tooth shoulder (Item 2) contacts the face of the tooth holder (Item 3) [Figure 10-40-3].

Figure 10-40-4

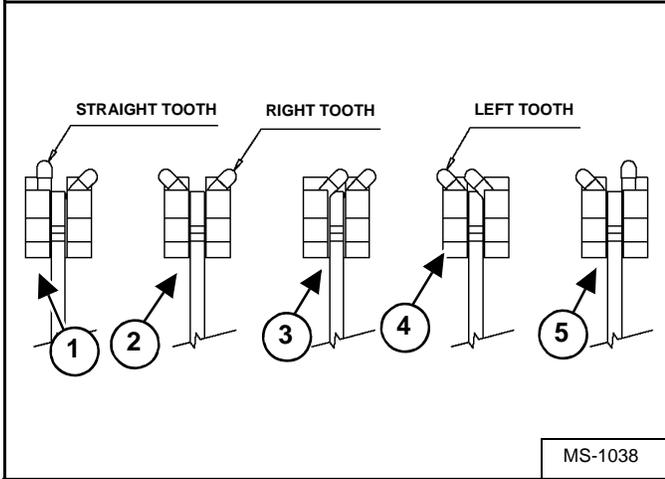


For tooth identification, measure the end of the tooth shank (Item 1) [Figure 10-40-4]. The standard teeth have a 11,2 x 12,7 mm (0.44 x 0.50 in) shank and the optional teeth have a 12,9 x 20,2 mm (0.51 x 0.79 in) shank.

## CUTTING TEETH (SG60 AND SGX60) (CONT'D)

### Cutting Teeth Pattern

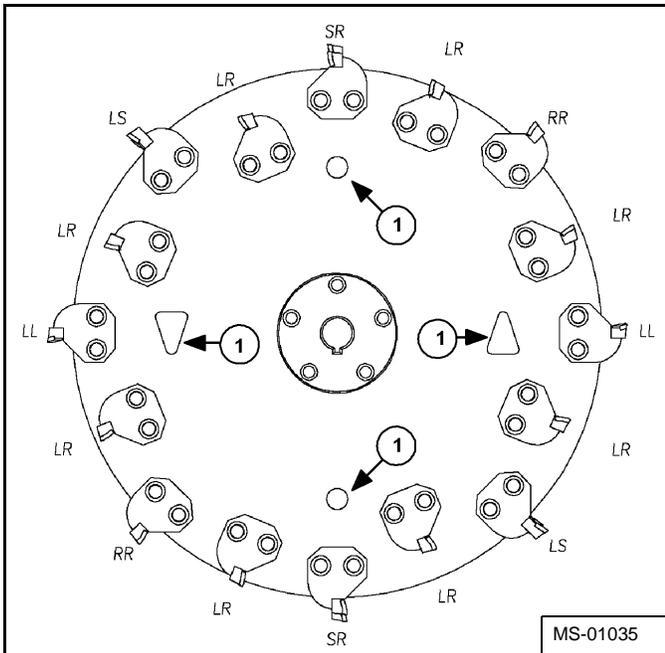
Figure 10-40-5



The cutting teeth are installed in a pattern of straight tooth / right tooth (Item 1), left tooth / right tooth (Item 2), right tooth / right tooth (Item 3) left tooth / left tooth (Item 4) and left tooth / straight tooth (Item 5) [Figure 10-40-5].

**NOTE:** The teeth are viewed from the cutting side of the tooth.

Figure 10-40-6



The tooth pattern is repeated twice around the cutting wheel. Start the tooth pattern at any of the locations shown (Item 1) [Figure 10-40-6]. (Example: The pattern is started at the 12 o'clock position and is repeated, starting at the 6 o'clock position.)

**! 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

Product: 2011 Bobcat Stump Grinder SG30/SG60/SGX60 Service Repair Workshop Manual(SG30 S/N 005600101 & Above,SG  
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