

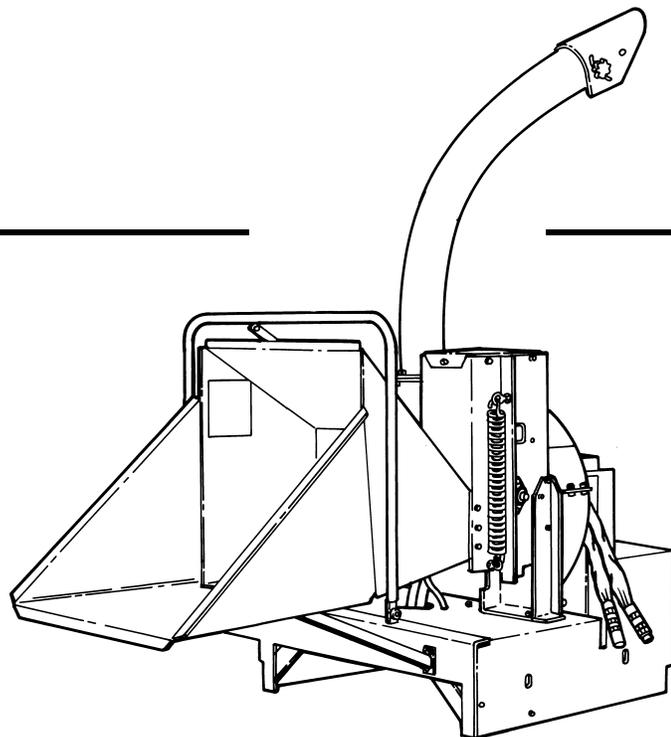


Bobcat®

**BOBCAT
CHIPPER**

**Service
Manual**

**WC-5A (S/N 912900101 & Above)
WC-8A (S/N 739500101 & Above)
WC-8B (S/N A02B00101 & Above)**



Product: Bobcat Chipper Service Repair Workshop Manual
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MAINTENANCE SAFETY



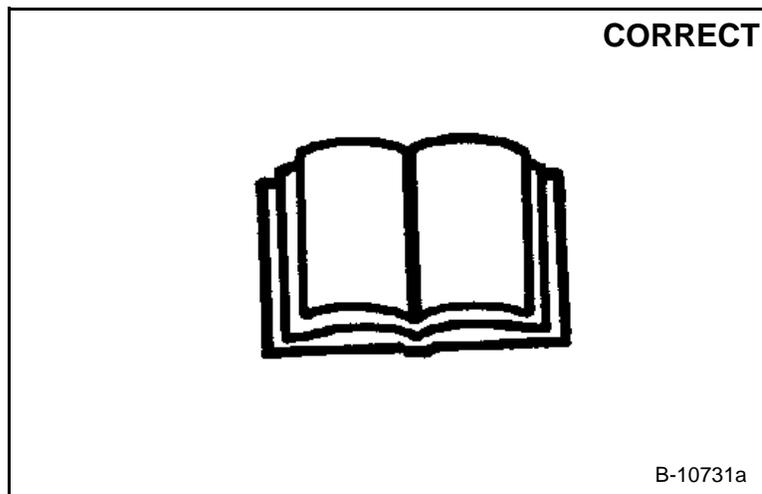
WARNING

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 without instructions. See Operation & Maintenance Manual and Attachment Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment with the engine running unless instructed to do so in manual.
-  Always lower the attachment 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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**PREVENTATIVE
MAINTENANCE**

**HYDRAULIC
SYSTEM**

MAIN FRAME

**SPECIFICATIONS
AND SCHEMATICS**

This Attachment is **ONLY** approved for use on Bobcat Skid Steer Loaders equipped with the Bobcat Interlock Control system (BICS™). On loaders equipped with the forward pivot seat bar, the loader must also be equipped with a Remote Attachment Control Harness Kit.

**CALIFORNIA
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



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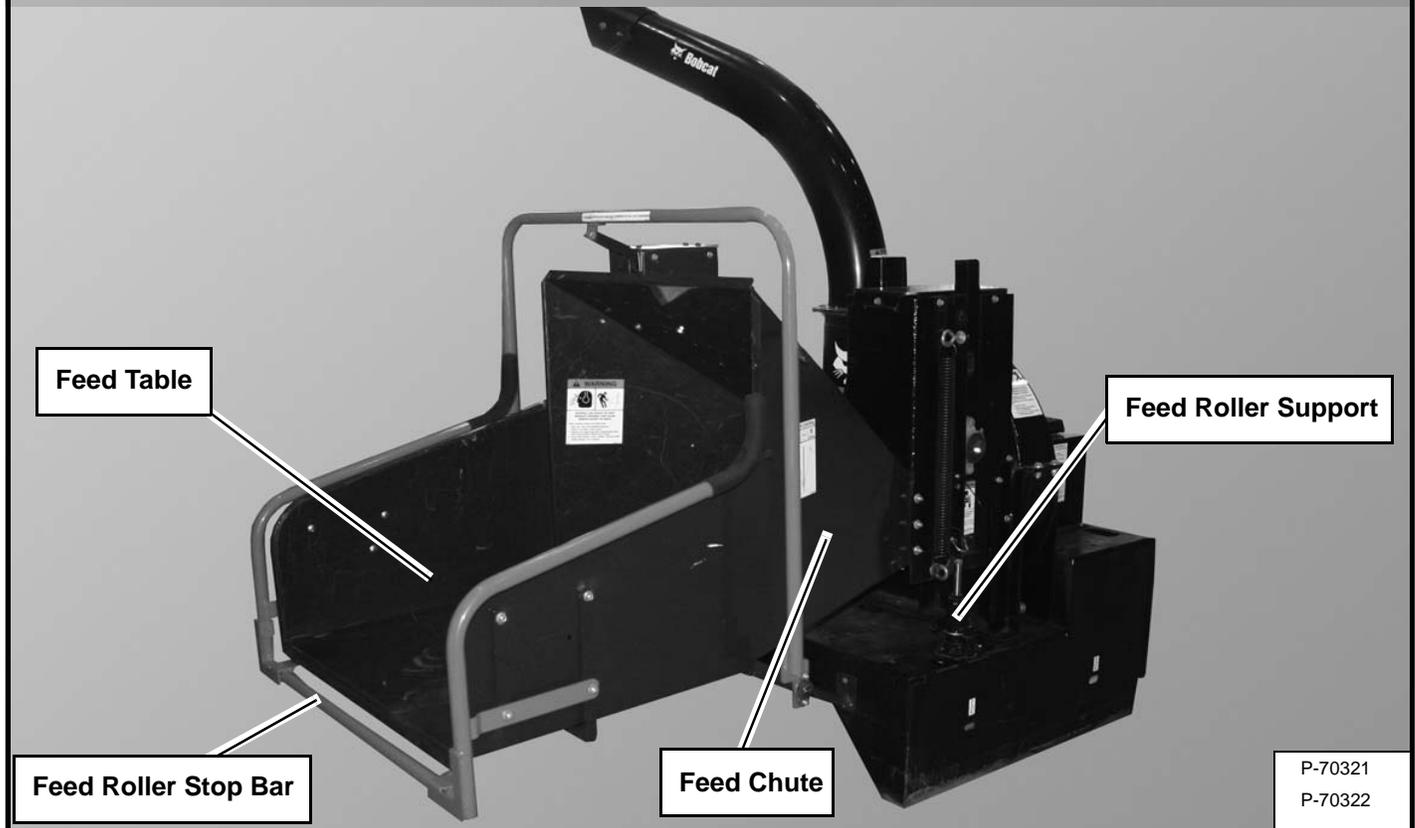
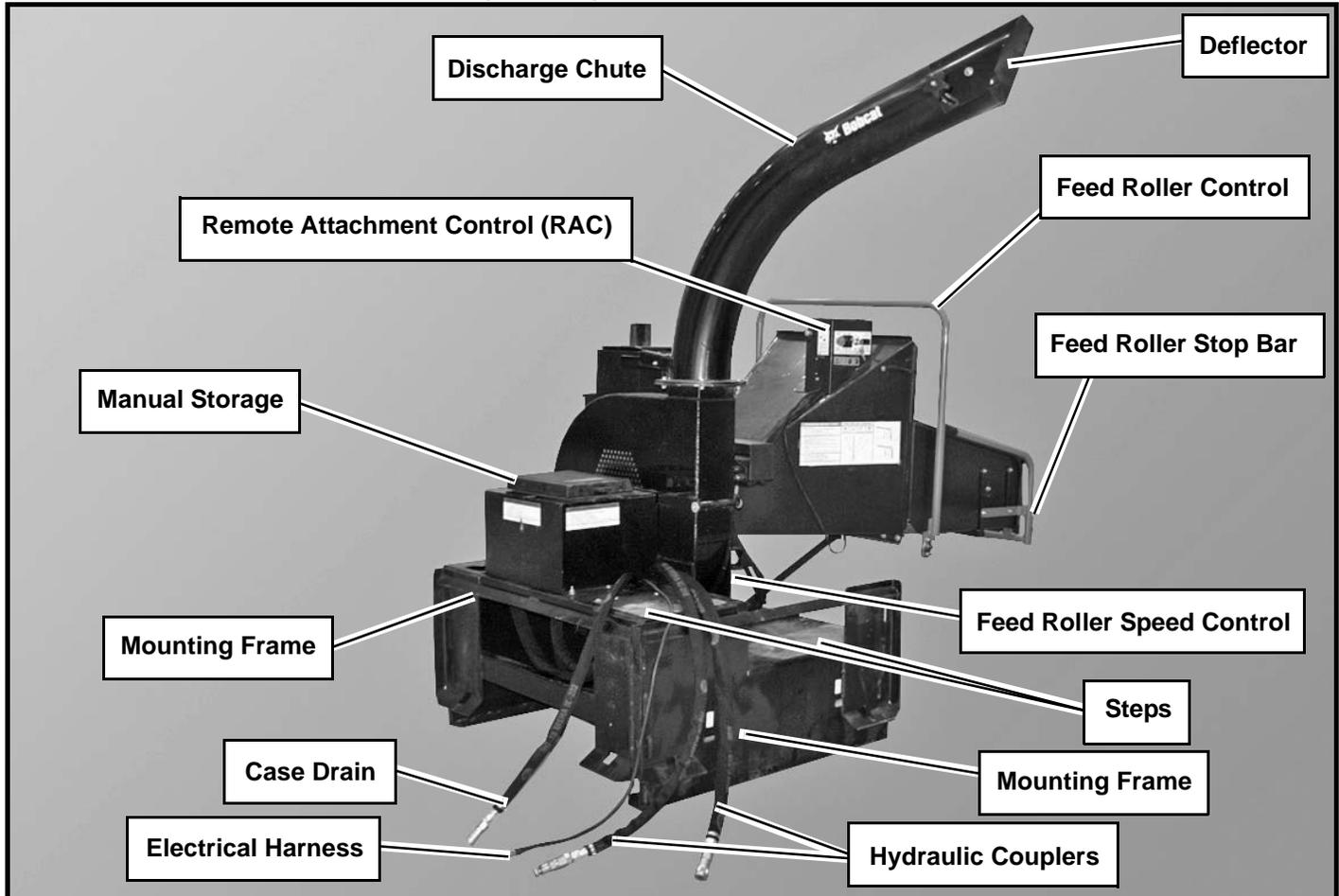
SERIAL NUMBER LOCATION

Figure 1



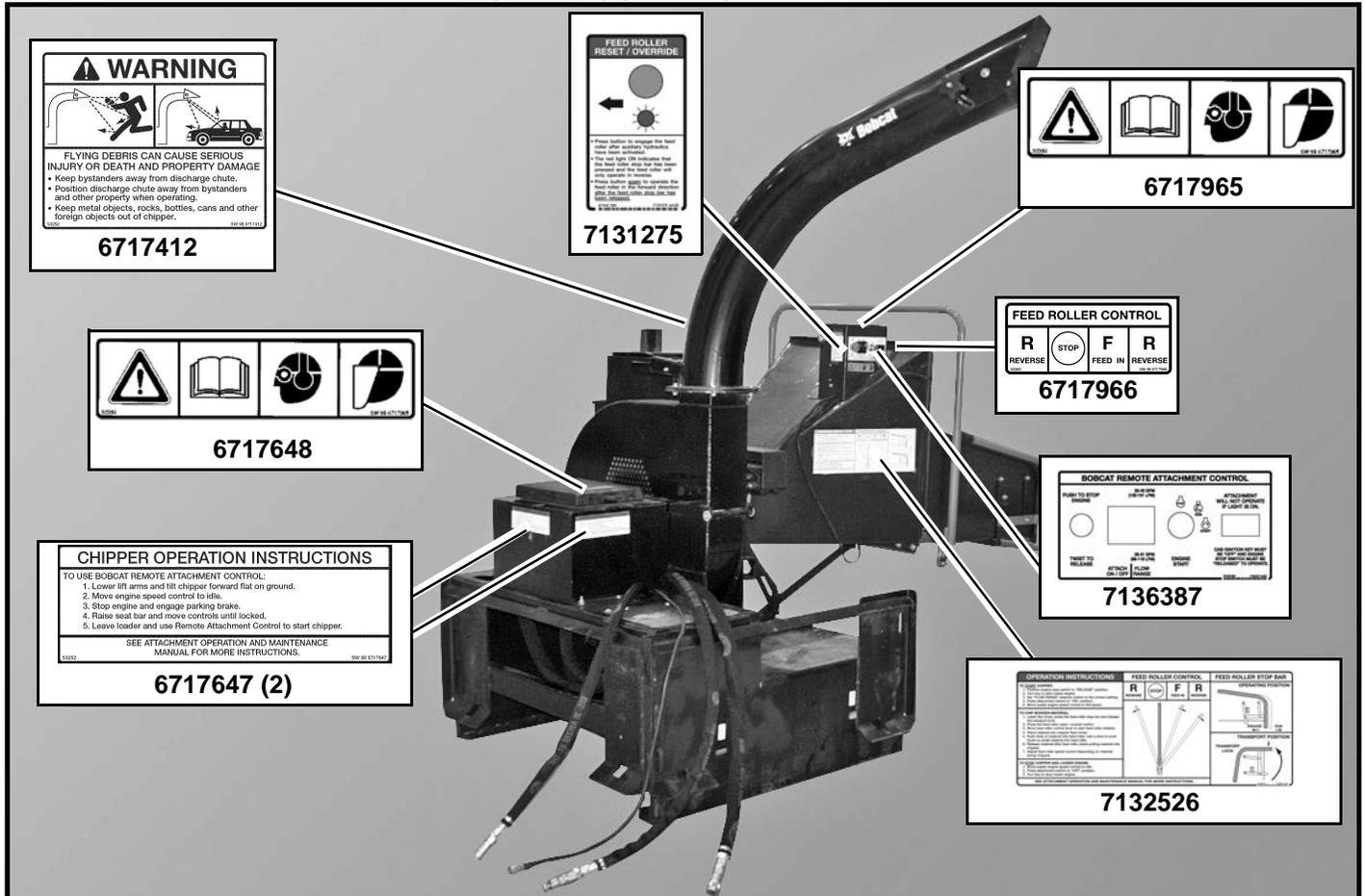
Always use the serial number of the chipper when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [Figure 1].

IDENTIFICATION AND MACHINE SIGNS (DECALS)



P-70321
P-70322

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



WARNING

FLYING DEBRIS CAN CAUSE SERIOUS INJURY OR DEATH AND PROPERTY DAMAGE

- Keep bystanders away from discharge chute.
- Position discharge chute away from bystanders and other property when operating.
- Keep metal objects, rocks, bottles, cans and other foreign objects out of chipper.

6717412

FEED ROLLER RESET / OVERRIDE

Press button to engage the feed roller reset override. The feed roller will stop rotating. Press button again to disengage the feed roller reset override. The feed roller will resume rotating. Press button again to disengage the feed roller reset override. The feed roller will resume rotating. Press button again to disengage the feed roller reset override. The feed roller will resume rotating.

7131275

6717965

6717648

FEED ROLLER CONTROL

6717966

CHIPPER OPERATION INSTRUCTIONS

TO USE BOBCAT REMOTE ATTACHMENT CONTROL:

1. Lower lift arms and tilt chipper forward flat on ground.
2. Move engine speed control to idle.
3. Stop engine and engage parking brake.
4. Raise seat bar and move controls until locked.
5. Leave loader and use Remote Attachment Control to start chipper.

SEE ATTACHMENT OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

6717647 (2)

BOBCAT REMOTE ATTACHMENT CONTROL

7136387

OPERATION INSTRUCTIONS

6717647 (2)

TO REVERSE FEED ROLLER: PUSH FULLY FORWARD OR PULL FULLY BACKWARD

6717670

DANGER

FEED ROLLER AND ROTATING CHIPPER BLADES CAN CAUSE SERIOUS INJURY OR DEATH

- Keep hands, feet and clothing away from feed roller and chipper blades.
- Never climb onto chipper feed chute or table when operating.
- Do not overreach. Keep proper balance and footing at all times. Keep off attachments.
- Before clearing debris or working:
 1. Stop chipper and stop loader engine.
 2. Wait for rotating chipper blades to come to a complete stop.
 3. Disconnect quick coupler from loader and connect them together.

6717410

DANGER

ROTATING CHIPPER BLADES OR FLYING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH

- Keep access cover closed and fastened with locking bolts during operation.
- Before opening access cover for cleaning or service:
 1. Stop loader engine.
 2. Wait for rotating chipper blades to come to a complete stop.
 3. Disconnect quick coupler from loader and connect them together.

6717411

WARNING

MATERIAL CAN KICKUP OR SHIFT SIDEWAYS SUDDENLY AND CAUSE SERIOUS INJURY OR DEATH

When feeding material into feed roller:

- Stand to the side of feed chute.
- Release and stand away from material after feed roller starts pulling material into chipper.
- Keep metal objects, rocks, bottles, cans and other foreign objects out of chipper.

6717413

DANGER

ROTATING SWAY CAN CAUSE SERIOUS INJURY OR DEATH

6715361

WARNING

FEED ROLLER CAN FALL AND CAUSE SERIOUS INJURY OR DEATH

- Secure the feed roller support on the up position using the locking pin before working with attachments & maintenance.

7131275

CHIPPER SERVICE SCHEDULE

EVERY 10 HOURS OF OPERATION:

1. Check feed roller cover for proper operation.
2. Check feed roller cover for proper operation.
3. Check for proper input at P.S. 5 (P.S. 5) using the following:
 - Check for proper operation.
 - Check for proper operation.
 - Check for proper operation.
 - Check for proper operation.
4. Check for proper operation.
5. Check for proper operation.
6. Check for proper operation.
7. Check for proper operation.
8. Check for proper operation.
9. Check for proper operation.
10. Check for proper operation.

6717411

P-70321
P-70322



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PREVENTATIVE MAINTENANCE

PREVENTATIVE MAINTENANCE

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TROUBLESHOOTING

Chart

 <b style="font-size: 24px; margin-left: 10px;">WARNING	<p>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.</p>
W-2003-0199	

TROUBLESHOOTING THE CHIPPER		
PROBLEM	CAUSE	CORRECTION
Chipper does not seat properly on the Bob-Tach.	Bob-Tach wedges are not fully retracted.	Retract Bob-Tach wedges.
	Mud, dirt or stones are lodged between the Bob-Tach and the Chipper.	Remove debris between Bob-Tach and Chipper.
Loader will not start with Chipper removed. (Early models only)	Connector not installed on remote attachment control harness on the loader lift arm.	Install connector on wire harness
Loader will not start with loader key switch with Chipper installed.	Engine stop switch on Remote Attachment Control engaged.	Turn the engine stop switch clockwise to release the switch.
	Key switch on Remote Attachment Control in the run position.	Turn the key switch to the OFF position.
Loader will not start with the Remote Attachment Control key switch.	Engine stop switch on Remote Attachment Control engaged.	Turn the engine stop switch clockwise to release the switch.
	Loader key switch in the run position.	Turn the loader key switch to the OFF position.
Chipper does not turn.	No hydraulic flow	Check quick couplers connection. Check for damaged hose ends and fittings.
		Press RAC attachment ON switch.
Chipper vibrates excessively.	Chipper not correctly attached to Bob-Tach.	Check for correct mounting of the Chipper to the Bob-Tach.
	Damaged Chipper blades.	Replace damaged blades.
Chipper hard to feed	Plugged discharge chute.	Clear discharge chute.
	Dull Chipper blades.	Sharpen blades.
	Damaged Chipper blades.	Replace damaged blades.
	Improper blade clearance.	Adjust clearance.
Feed roller does not engage	Low hydraulic flow due to low engine RPM.	Move loader engine speed control lever to high engine RPM position.



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INSPECTION

Bob-Tach Inspection

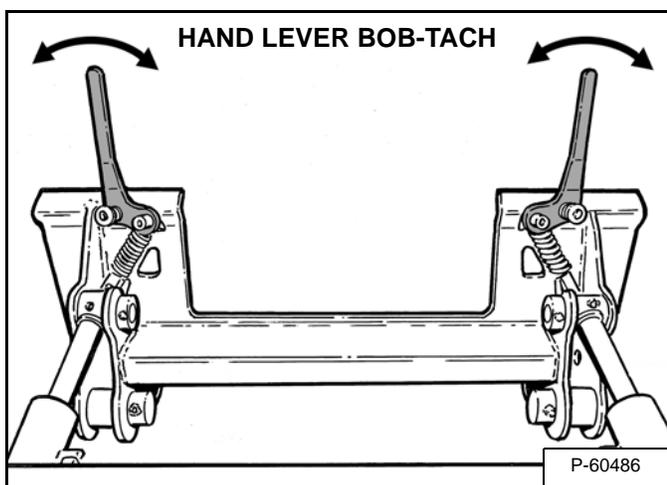
Hand Lever Bob-Tach



Bob-Tach wedges must extend through the holes in attachment. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

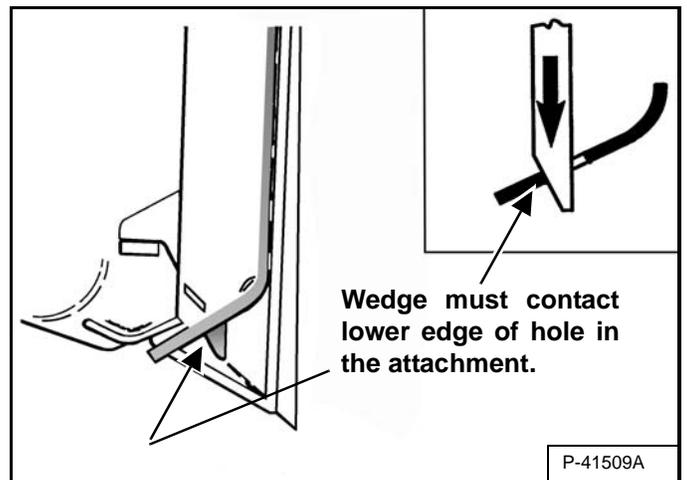
W-2102-0588

Figure 10-20-1



Move the Bob-Tach levers to engage and disengage the wedges [Figure 10-20-1]. The levers and wedges must move freely.

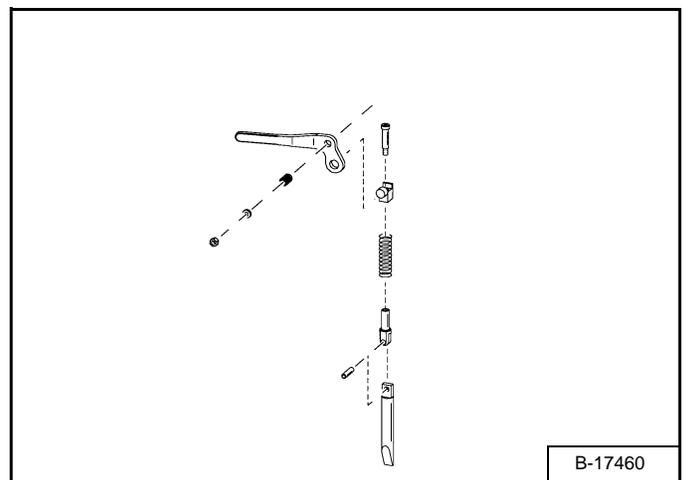
Figure 10-20-2



The wedges must extend through the holes in the attachment mounting frame [Figure 10-20-2].

If the wedge does not contact the lower edge of the hole [Figure 10-20-2], the attachment will be loose and can come off the Bob-Tach.

Figure 10-20-3



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-20-3]. 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 correct loader Operation & Maintenance Manual for *LUBRICATION OF THE BOBCAT LOADER*.)

INSPECTION (CONT'D)

Power Bob-Tach Inspection

Power Bob-Tach Option

! WARNING

Bob-Tach wedges must extend through the holes in attachment. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

W-2102-0588

Figure 10-20-4

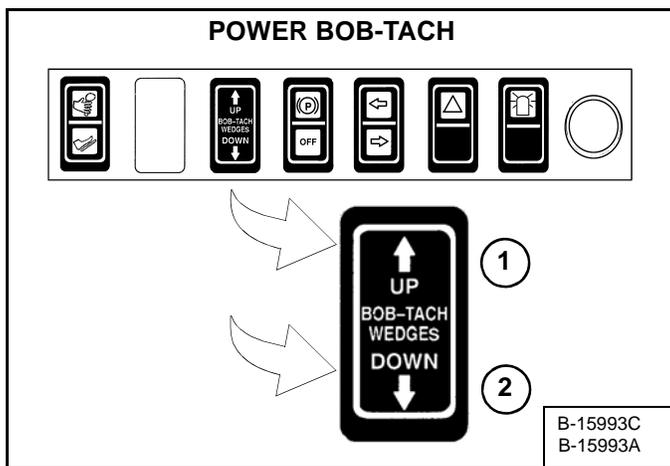
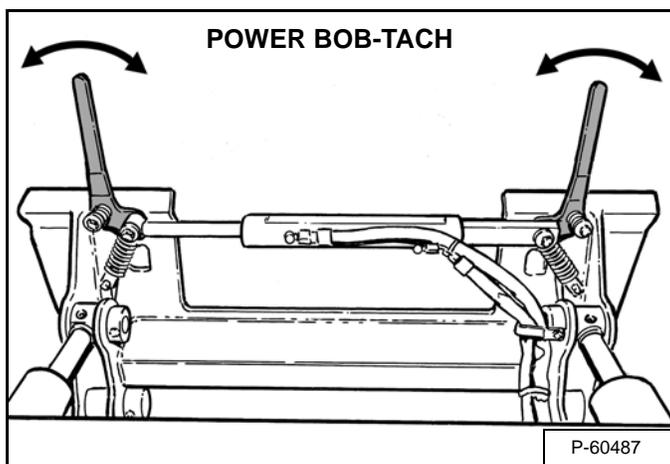


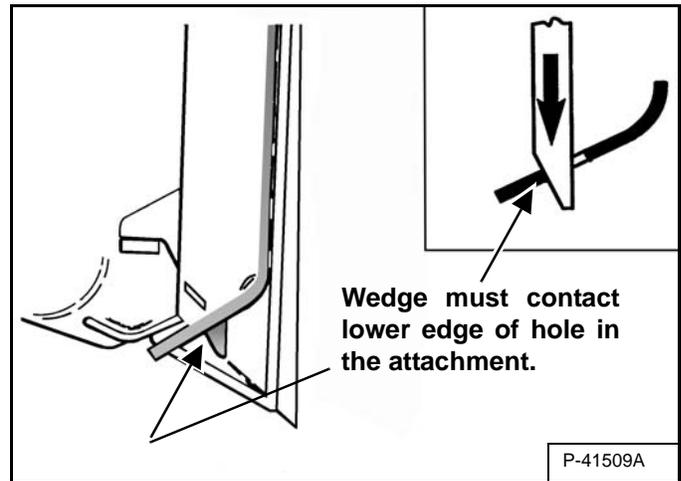
Figure 10-20-5



Push and hold the BOB-TACH WEDGES UP switch (Item 1) until the wedges are fully raised. Push and hold the BOB-TACH WEDGES DOWN switch (Item 2) [Figure 10-20-4] until the wedges are fully lowered.

The levers and wedges must move freely [Figure 10-20-5].

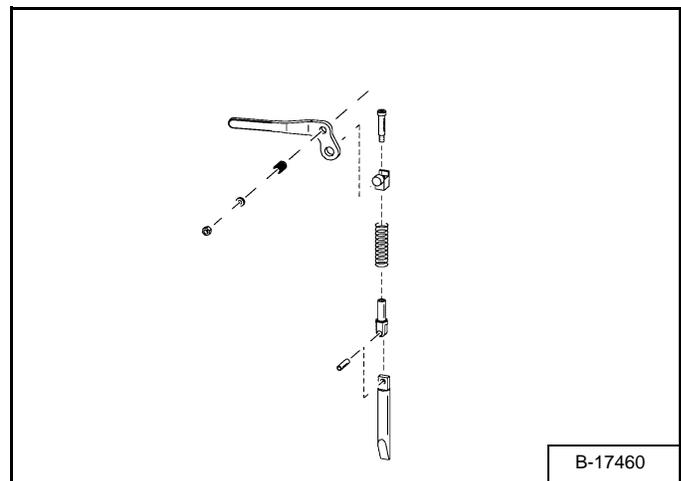
Figure 10-20-6



The wedges must extend through the holes in the attachment mounting frame [Figure 10-20-6].

If the wedge does not contact the lower edge of the hole [Figure 10-20-6], the attachment will be loose and can come off the Bob-Tach.

Figure 10-20-7



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-20-7]. Replace any parts that are damaged, bent or missing. Keep all fasteners tight.

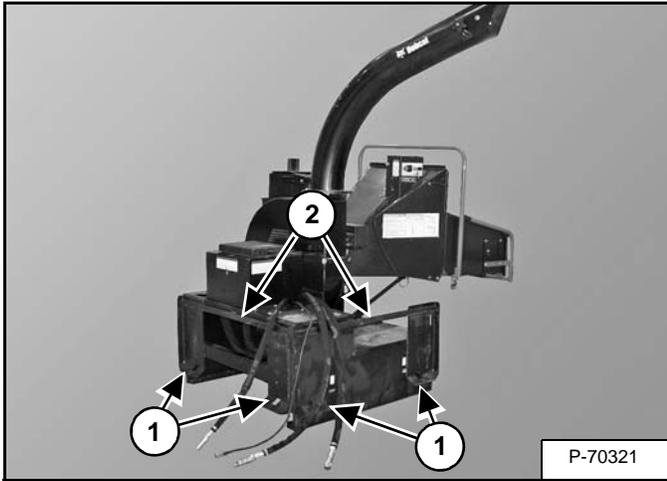
Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the correct loader Operation & Maintenance Manual for *LUBRICATION OF THE BOBCAT LOADER.*)

INSPECTION (CONT'D)

Attachment Mounting Frame

Figure 10-20-8

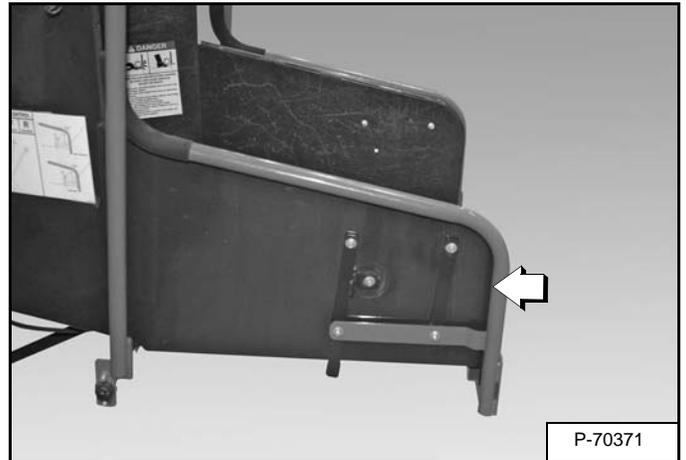


Inspect the Bob-Tach wedge mount (Item 1), mounting flange (Item 2) and all welds on the chipper mount for wear and damage each time the chipper is removed from the loader [Figure 10-20-8].

Feed Roller Stop Bar Activation Point

Start the chipper and engage the feed roller in the forward direction.

Figure 10-20-9



Fully press the feed roller stop bar to the Engaged position [Figure 10-20-9]. The feed roller must stop turning when the feed roller stop bar is pressed to the activation point. (See FEED ROLLER STOP BAR ACTIVATION POINT on page 10-80-1.) for information on adjusting the feed roller stop bar activation point.

Release the feed roller stop bar. The feed roller must remain stopped.

Move the feed roller control to the Reverse position. The feed roller should turn in the reverse direction.

Move the feed roller control to the Forward position and press the feed roller reset/override button. The feed roller should resume turning in the forward direction.

If the feed roller does not function as described, see your Bobcat dealer for repair.



WARNING

- Never operate without the feed roller stop bar.
- Never modify the feed roller stop bar and check that it is operating properly.

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LUBRICATION

Lubrication Locations

IMPORTANT

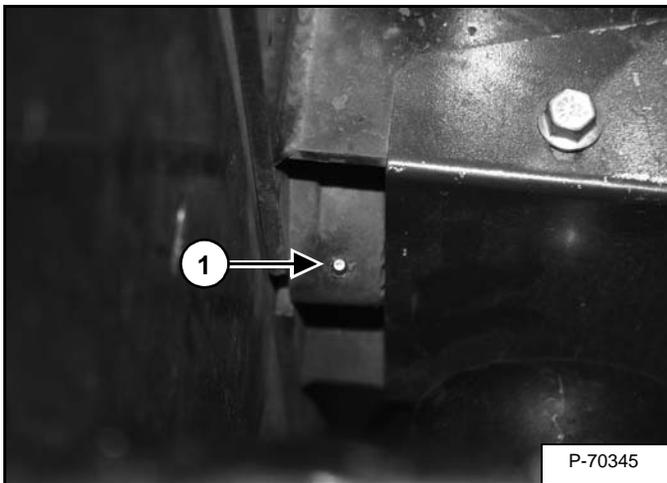
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

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

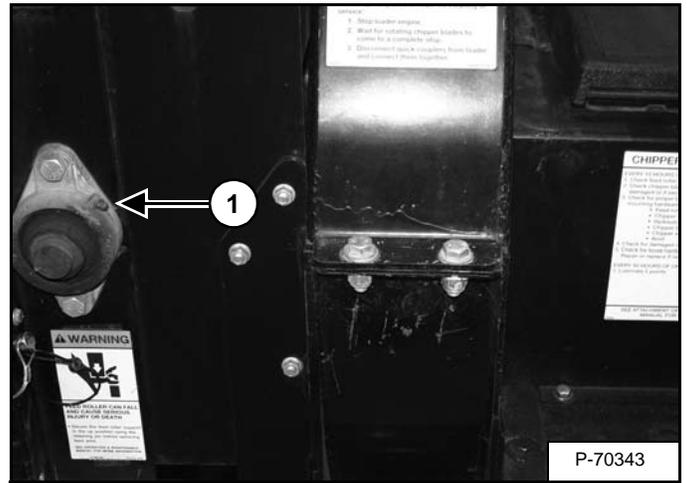
Lubricate the following five areas with grease. **EVERY 50 HOURS:**

Figure 10-30-1



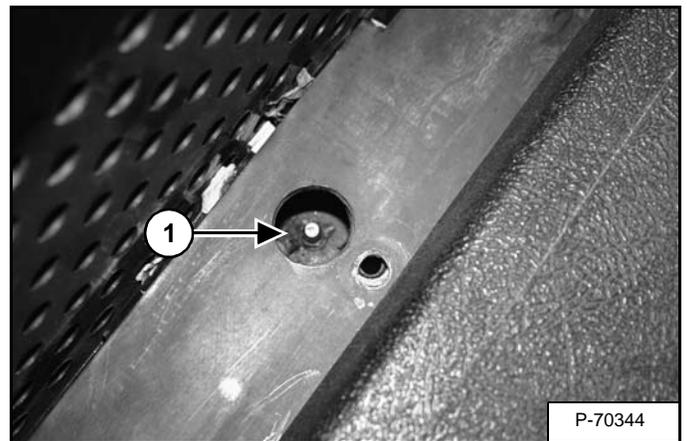
Feed roller bearing (Item 1) [Figure 10-30-1].

Figure 10-30-2



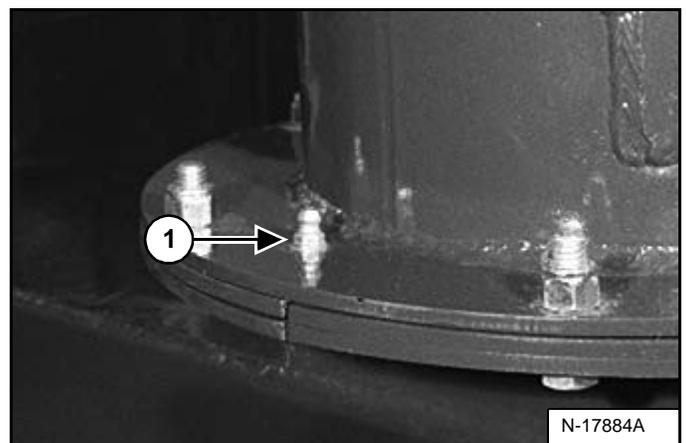
Feed roller bearing (Item 1) [Figure 10-30-2] both sides.

Figure 10-30-3



Shaft (Item 1) [Figure 10-30-3].

Figure 10-30-4



Chute (Item 1) [Figure 10-30-4].



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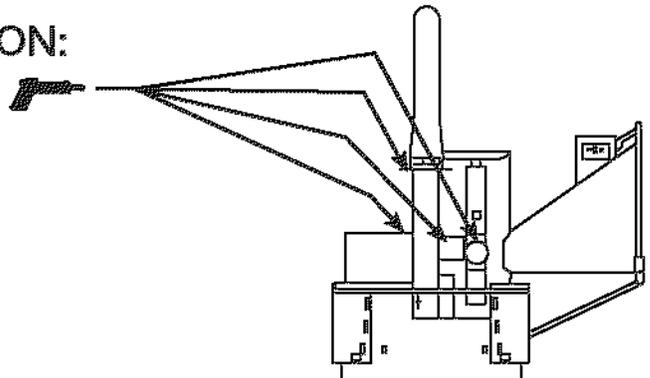
CHIPPER SERVICE SCHEDULE

EVERY 10 HOURS OF OPERATION:

1. Check feed roller control lever for proper operation.
2. Check chipper blades for sharpness. Replace if cracked, damaged or if excessively worn.
3. Check for proper torque of 75 ft-lbs (102 NM) the following mounting hardware:
 - Feed roller bearings
 - Chipper wheel bearings
 - Hydraulic motor
 - Chipper blades
 - Chipper wheel paddles
 - Anvil
4. Check for damaged or missing decals. Replace if necessary.
5. Check for loose hardware, missing guards, or damaged parts. Repair or replace if necessary.

EVERY 50 HOURS OF OPERATION:

1. Lubricate 5 points.



SEE ATTACHMENT OPERATION AND MAINTENANCE
MANUAL FOR MORE INSTRUCTIONS



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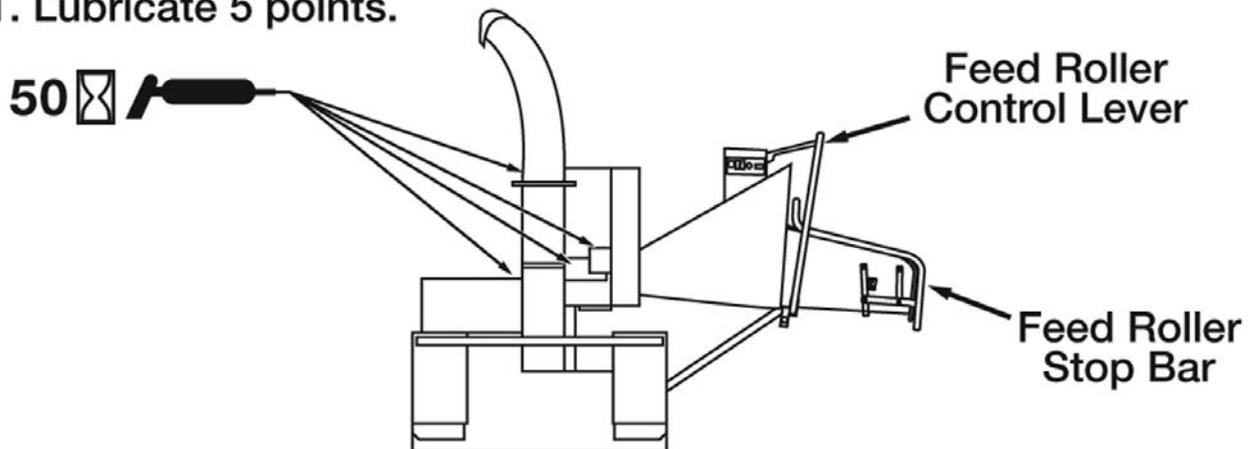
CHIPPER SERVICE SCHEDULE

EVERY 10 HOURS OF OPERATION:

1. Check feed roller control lever for proper operation.
2. Check feed roller stop bar for proper operation.
3. Check for proper torque of 75 ft-lbs (102 N•m) the following mounting hardware:
 - Feed roller bearings
 - Chipper wheel bearings
 - Hydraulic motor
 - Chipper wheel paddles
 - Anvil
4. Check for proper torque of 120 ft-lbs (163 N•m) on the chipper blade mounting hardware.
5. Check for damaged or missing decals. Replace if necessary
6. Check for loose hardware, missing guards, or damaged parts. Repair or replace if necessary.

EVERY 50 HOURS OF OPERATION:

1. Lubricate 5 points.



SEE ATTACHMENT OPERATION AND MAINTENANCE
MANUAL FOR MORE INSTRUCTIONS

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CHIPPER BLADES

Setting Chipper Blade Clearance

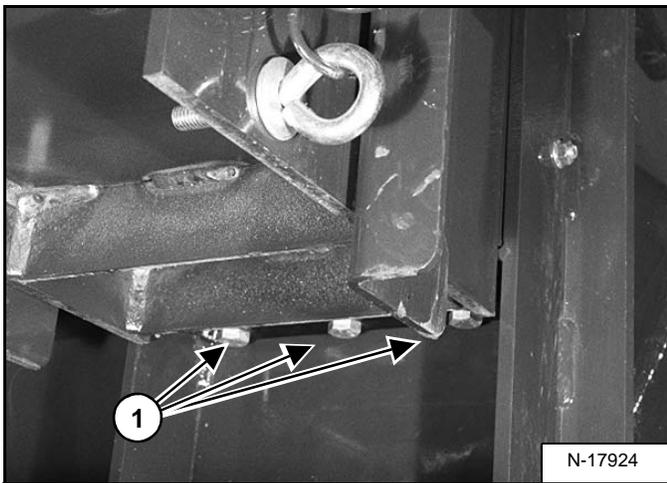
WARNING

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-2019-1285

Figure 10-50-1



To adjust the clearance, loosen the three bolts (Item 1) [Figure 10-50-1].

Installation: Tighten the bolts to 75 ft.-lb. (102 N•m) torque.

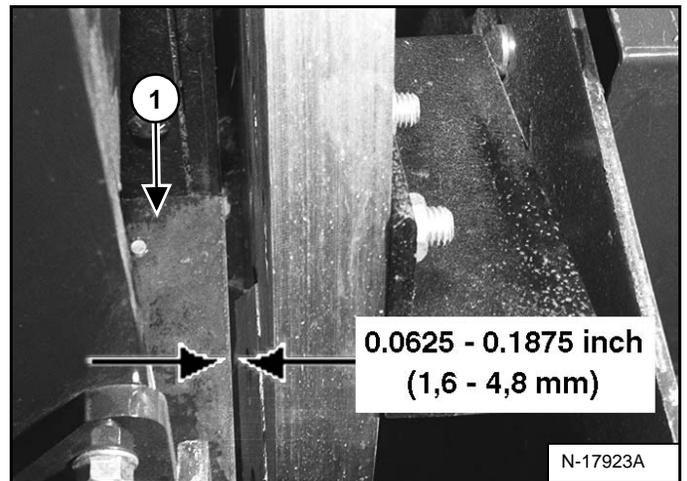
WARNING

AVOID INJURY OR DEATH

Rotating chipper blades or flying objects can cause serious injury or death. Never operate the chipper with the housing open or without the housing bolts properly torqued.

W-2345-0199

Figure 10-50-2



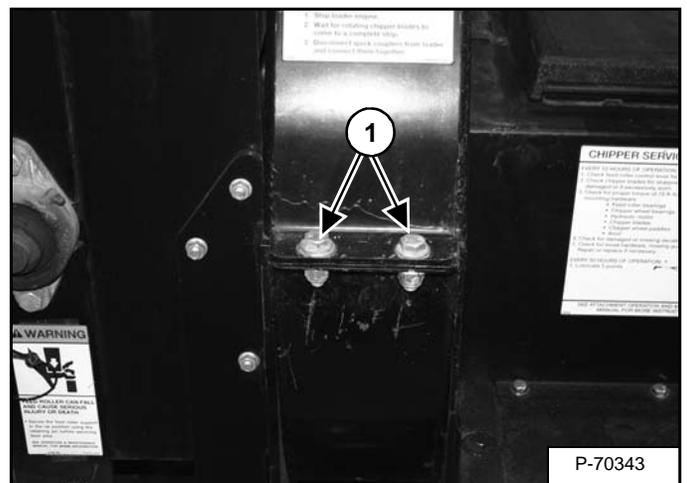
Move the anvil (Item 1) [Figure 10-50-2] until the correct clearance between the anvil and blades is reached.

The anvil can be installed in four different positions.

When the edge of the anvil becomes worn, remove the three bolts (Item 1) [Figure 10-50-1] and turn the anvil over. Install the bolts and set the blade to anvil clearance to the above listed dimensions. Replace the anvil if cracked or excessively worn.

Close the chipper housing using the discharge chute.

Figure 10-50-3



Install the two bolts (Item 1) [Figure 10-50-3] and nuts. Tighten the bolts to 25-28 ft.-lb. (34-38 N•m) torque.

Sharpening The Chipper Blades

NOTE: Never sharpen or grind the mounting surfaces of the blades. This will cause the edge to roll and the blade will be damaged, resulting in poor chipping performance.

Small imperfections such as nicks and burrs on the leading edge of the blade will affect the chipping performance of the attachment.

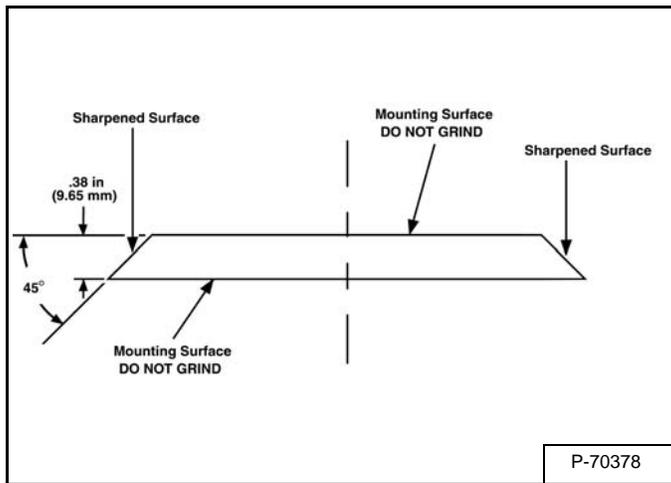
- For blades that have been repeatedly sharpened, ensure that the sharpened surface extends past the chipping slot opening. If it does not extend past the opening, the blades should be replaced.



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 10-50-4



Regrind the angled edge of the chipping blades to 45 degrees [Figure 10-50-4].

- The blades can be ground on a bench grinder or by a professional.
- Make sure some type of fixture is used to correctly hold the blade at the proper angle.
- Be careful when grinding so that the blade does not become overheated and change color. This will remove the heat-treated properties.
- Use short grinding times and cool with water or some type of liquid coolant.
- Remove an equal amount off each blade to maintain disk balance.

Sample of manual. Download All 198 pages at:
<https://www.arepairmanual.com/downloads/bobcat-chipper-service-repair-workshop-manual/>