



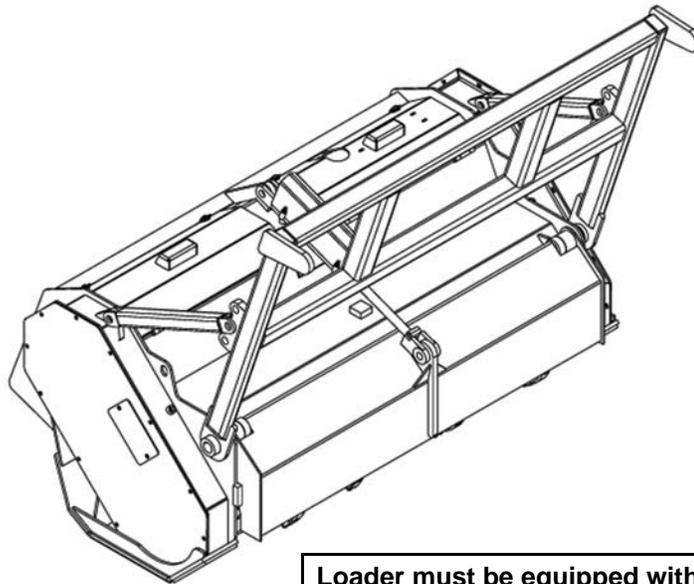
# Bobcat®

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## Service Manual Forestry Cutter

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**(FRST CTTR FRC50) - S/N ADTN00101 & Above  
(Forestry Cutter) - S/N A6ZB00101 & Above**



**Loader must be equipped with the  
FORESTRY DOOR KIT P/N 7131885  
and OTHER APPROVED FORESTRY KITS**



Product: Bobcat Forestry Cutter Service Repair Workshop Manual  
Full Download: <https://www.arepairmanual.com/downloads/bobcat-forestry-cutter-service-repair-workshop-manual-2/>

Sample of manual. Download All 126 pages at:  
<https://www.arepairmanual.com/downloads/bobcat-forestry-cutter-service-repair-workshop-manual-2/>

# MAINTENANCE SAFETY



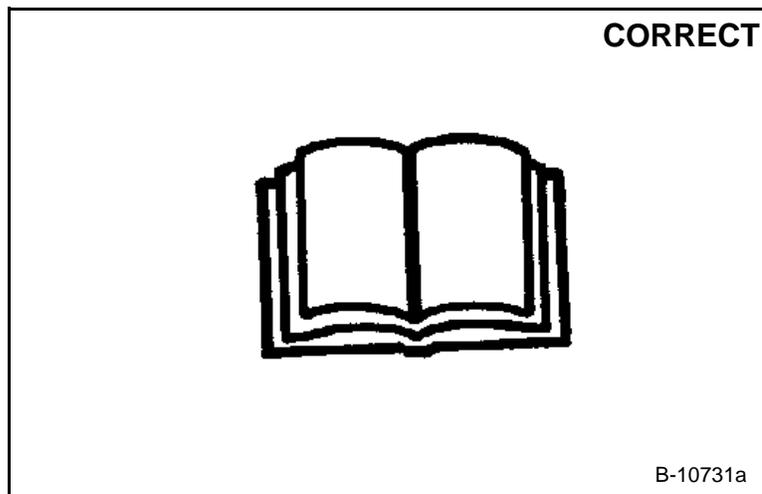
## WARNING

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.



B-10731a

-  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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## REFERENCE INFORMATION

Write the correct information for YOUR forestry cutter attachment in the spaces below. Always use these numbers when referring to your forestry cutter.

Forestry Cutter Serial Number \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTES:  
\_\_\_\_\_  
\_\_\_\_\_

YOUR BOBCAT® DEALER:  
  
ADDRESS:  
\_\_\_\_\_  
PHONE:  
\_\_\_\_\_

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

Bobcat Company Europe  
Dréve Richelle 167  
B-1410 WATERLOO  
Belgium



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## SERIAL NUMBER LOCATION

Figure 1

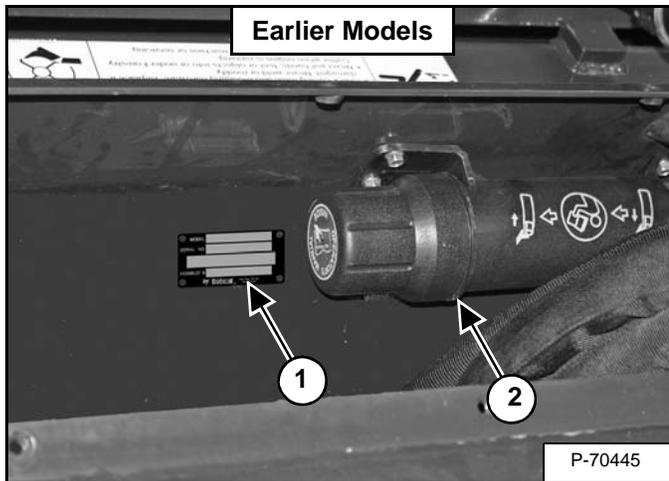
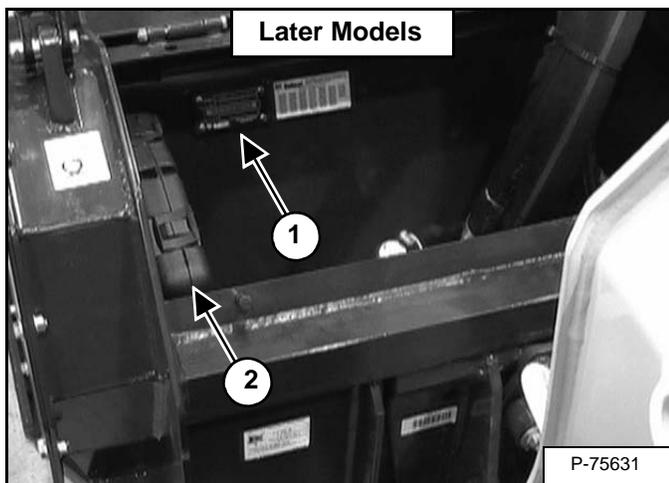


Figure 2



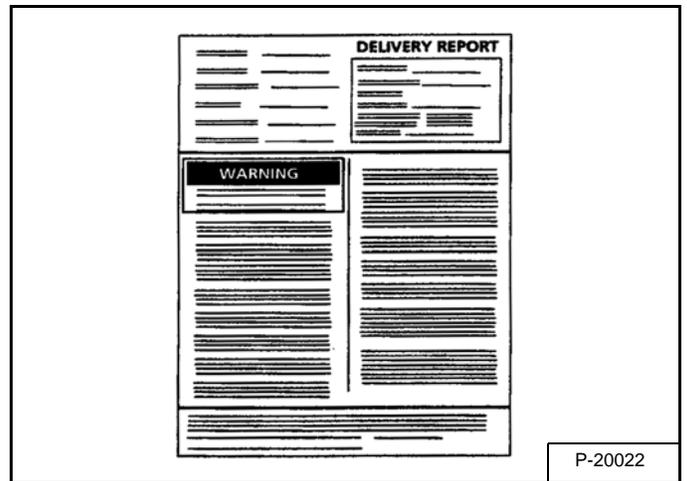
Always use the serial number (Item 1) [Figure 1] & [Figure 2] of the forestry cutter when requesting service information or when ordering parts (Serial number is located under the left cover). Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

## MANUAL STORAGE

The manual storage container (Item 2) [Figure 1] & [Figure 2] is mounted under the left cover of the forestry cutter.

## DELIVERY REPORT

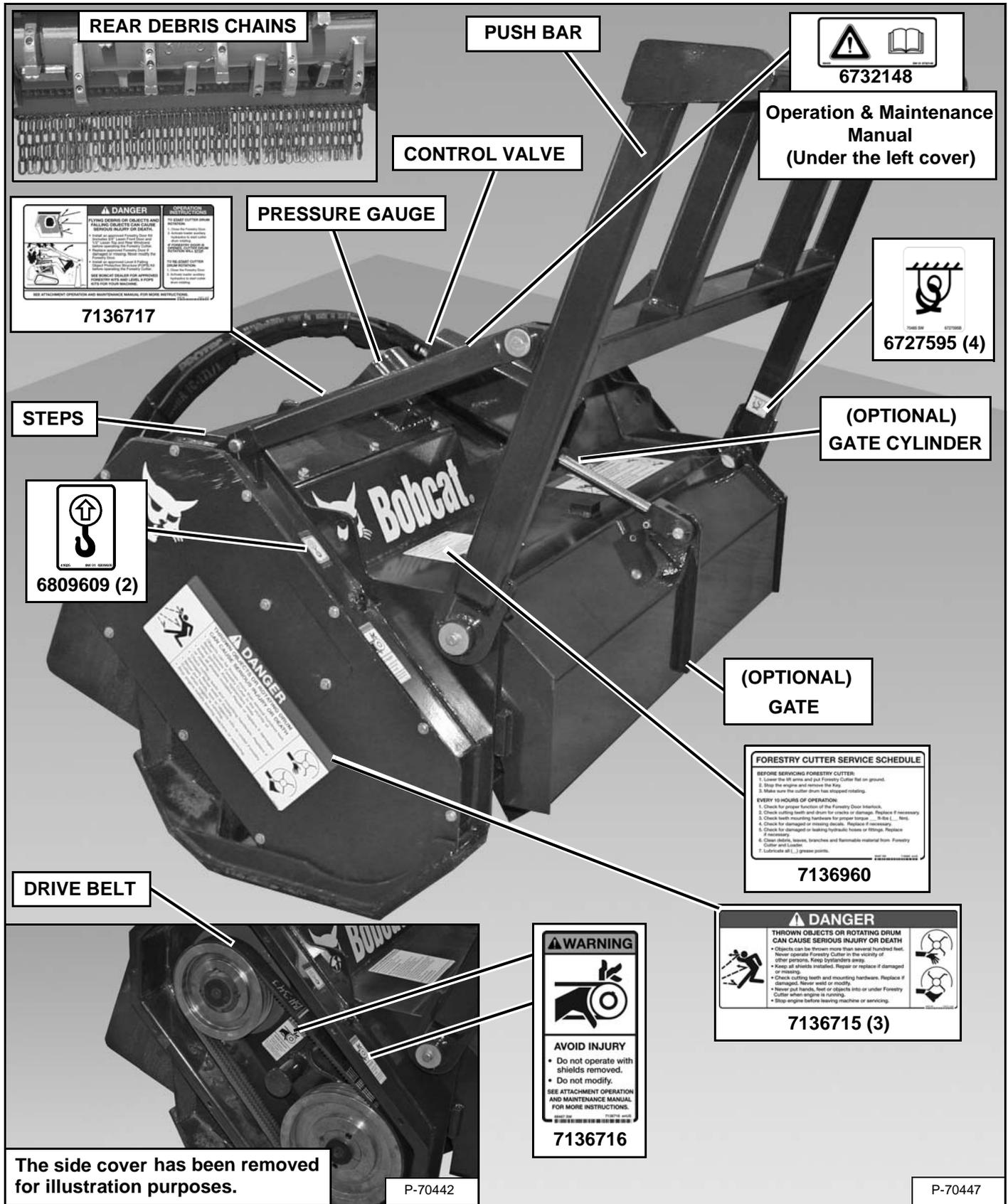
Figure 3



The delivery report must be filled out by the dealer and signed by the owner or operator when the forestry cutter is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 3].

# IDENTIFICATION AND MACHINE SIGNS (DECALS)

## Forestry Cutter



REAR DEBRIS CHAINS

PUSH BAR



6732148

Operation & Maintenance Manual  
(Under the left cover)

CONTROL VALVE

PRESSURE GAUGE



7136717



6727595 (4)

STEPS

(OPTIONAL)  
GATE CYLINDER



6809609 (2)

(OPTIONAL)  
GATE



7136960

DRIVE BELT



The side cover has been removed for illustration purposes.

P-70442



7136716

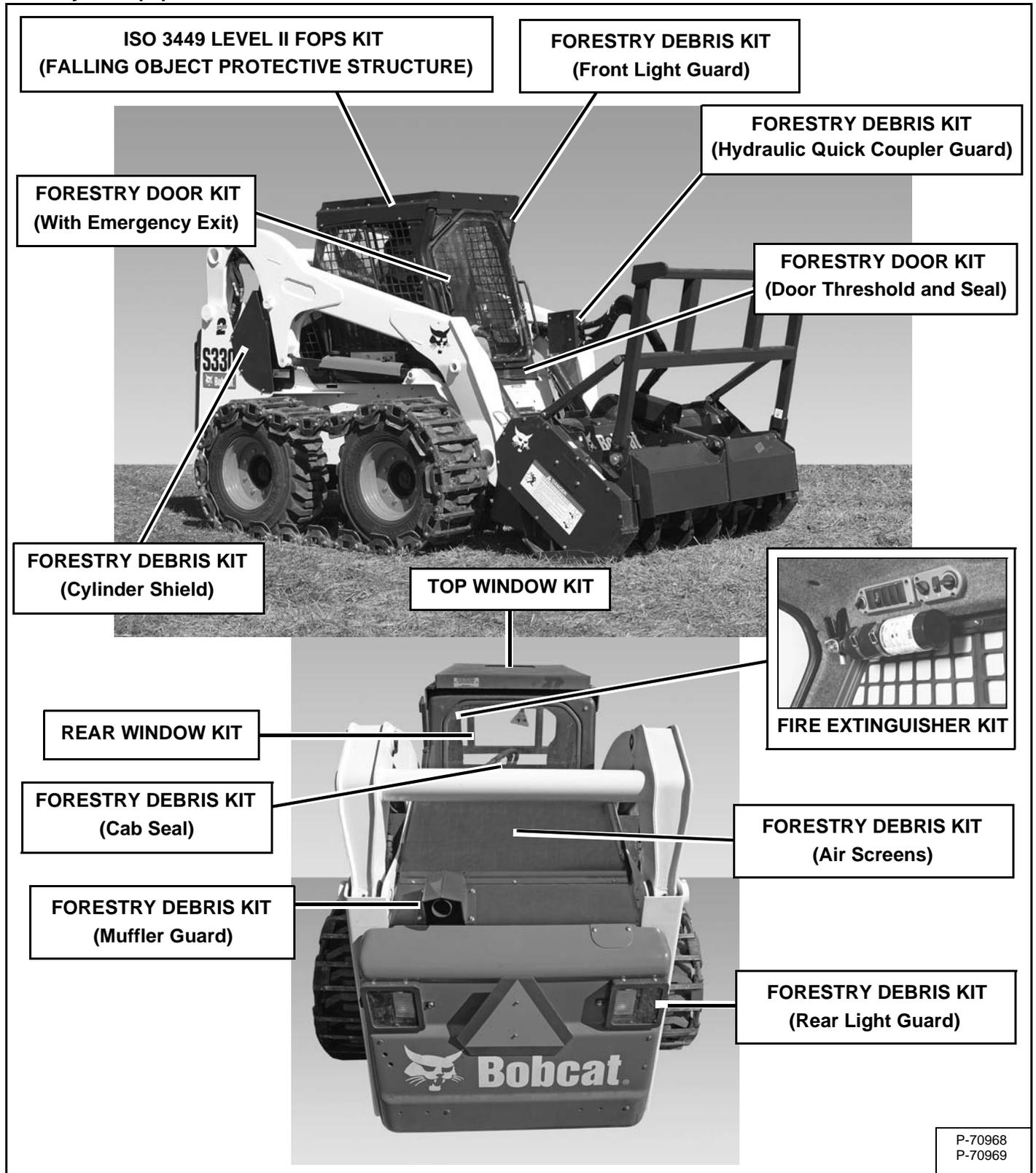


7136715 (3)

P-70447

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

Forestry Kit Equipment Identification





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**PREVENTIVE  
MAINTENANCE**



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## TROUBLESHOOTING

### Chart

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
Rotor will not turn.	Forestry door open.	Close forestry door.
	Wire harness disconnected.	Install wire harness.
	Quick couplers disconnected.	Install quick couplers.
	Auxiliary Hydraulics not engaged.	Engage auxiliary hydraulics.
	Unapproved door installed.	Install approved door.
	Rotor is jammed or plugged.	Unplug rotor.
Auxiliary Hydraulics will not start.	Forestry door open.	Close forestry door.
	Unapproved door installed.	Install approved door.
Forestry cutter performs poorly.	Material engagement speed too fast.	Engage material at a slower speed.



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## FORESTRY CUTTER SERVICE SCHEDULE

### BEFORE SERVICING FORESTRY CUTTER:

1. Lower the lift arms and put Forestry Cutter flat on ground.
2. Stop the engine and remove the key.
3. Make sure the cutter drum has stopped rotating.

### EVERY 10 HOURS OF OPERATION:

1. Check for proper function of the Forestry Door Interlock. Inspect Forestry Door for damage. Replace if necessary.
2. Inspect Level II Falling Object Protective Structure (FOPS) for damage. Repair if damaged or replace if necessary.
3. Clean debris, leaves, branches and flammable material from Forestry Cutter and machine. Check for damaged or missing guards and shields. Repair or replace if necessary.
4. Check cutting teeth and drum for cracks or damage. Replace if necessary.
5. Check teeth mounting hardware for proper torque 190 ft-lbs (260 Nm).
6. Check for damaged or missing decals. Replace if necessary.
7. Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.
8. Lubricate (2) grease points.

### EVERY 40 HOURS OF OPERATION:

1. Lubricate grease point under cover.

SEE ATTACHMENT OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

68487 SW

7136960 enUS



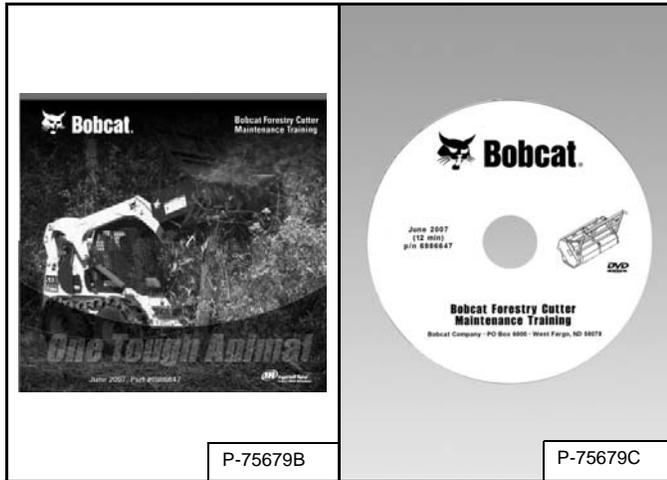


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## DAILY INSPECTION

### Forestry Cutter Maintenance Training DVD

Figure 10-30-1



The Forestry Cutter Maintenance Training DVD provides basic instructions on how to properly inspect and clean the loader and forestry cutter [Figure 10-30-1].

#### Loader And Forestry Cutter

Clean debris, leaves, branches and flammable material from forestry cutter and loader. (See **Cleaning The Machine And Forestry Cutter** on Page 10-30-8.)



#### AVOID INJURY OR DEATH

Before servicing the Forestry Cutter:

- Lower the lift arms and put Forestry Cutter flat on the ground.
- Stop the engine.
- Make sure the cutter drum has stopped rotating.
- Engage the parking brake.
- Move all pedals, handles, joysticks, and other controls until they are LOCKED or in the NEUTRAL position.

**SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.**

W-2644-0607

#### Guards, Shields, Seals And Decals

Check for damaged or missing guards, screens, shields, seals and decals. Replace any damaged or missing components.

## Hydraulic Hoses & Fittings



#### AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0807

Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.

**NOTE: Hydraulic oil leaks, excess grease, fuel and oil accumulation (including spillage) should be washed completely after every major service.**

#### Forestry Door

The Forestry Door window contains 3/4 inch (19,05 mm) thick laminated Lexan™ material [Figure 10-30-2]. If the Forestry Door window is damaged, replace it with Bobcat approved service parts only.

Forestry Door Window [Figure 10-30-2].

Figure 10-30-2



- Inspect for cracks or damage. Replace if required.
- Pre-rinse with water to remove gritty materials.
- Wash with a mild household detergent and warm water.
- Use a sponge or soft cloth. Rinse well with water and dry with a clean soft cloth or rubber squeegee.
- Do not use abrasive or highly alkaline cleaners.
- Do not clean with metal blades or scrapers.

## DAILY INSPECTION (CONT'D)

### Forestry Door (Cont'd)

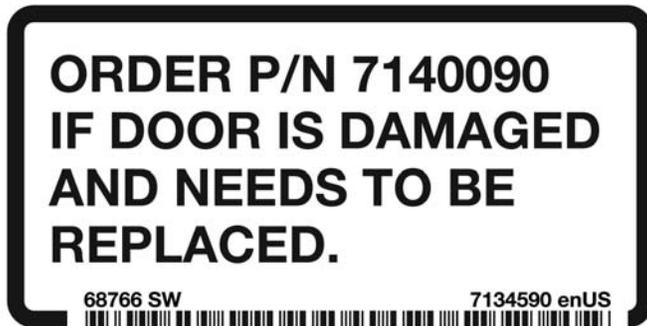
#### Emergency Exit

Figure 10-30-3



- Inspect the emergency exit lever (Item 1), linkages and hardware (Item 2) [Figure 10-30-3] for loose or damaged parts.
- Repair or replace if necessary.

Figure 10-30-4



The Forestry Door service decal [Figure 10-30-4] is located in the lower right corner of the forestry door.

### Forestry Door Interlock

Before checking the Forestry Door Interlock, make sure the drum is clean and the area is clear of bystanders. Park the loader on flat level ground.

Enter the loader, fasten seat belt and close the Forestry Door. Lower the seat bar and start the engine.

1. Raise the lift arms so the forestry cutter is approximately 1 foot off the ground.
2. Engage the auxiliary hydraulics. The drum should rotate.
3. Open the Forestry Door. The drum should stop rotating.
4. Close the Forestry Door. The drum must remain stopped.
5. Engage the auxiliary hydraulics again with the Forestry Door closed to start drum rotation.

If the Forestry Door Interlock does not operate as described above, see your Bobcat Dealer for service.



#### AVOID INJURY OR DEATH

Never operate without the Forestry Door installed.

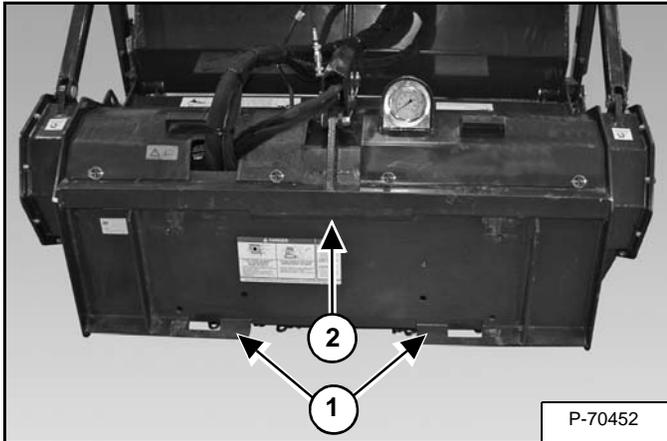
Never modify the Forestry Door Interlock and check that it is functioning properly.

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## DAILY INSPECTION (CONT'D)

### Forestry Cutter Mounting Frame

Figure 10-30-5

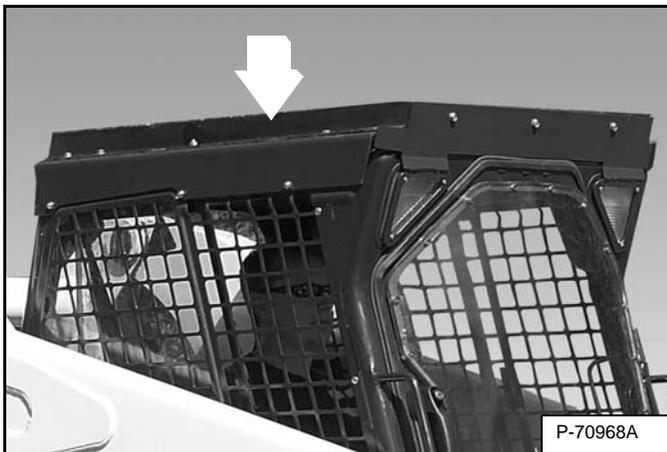


Inspect the Bob-Tach wedge mount (Item 1), mounting flange (Item 2) [Figure 10-30-5] and all welds on the forestry cutter mount for wear and damage each time the forestry cutter is removed from the loader.

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

### Level II Falling Object Protective Structure (FOPS)

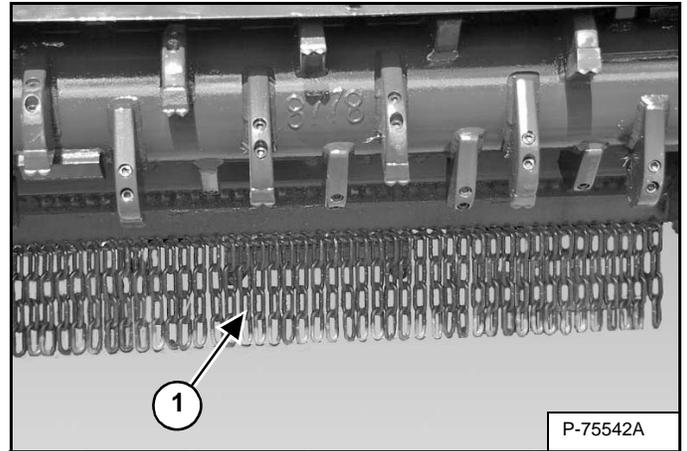
Figure 10-30-6



Inspect the Level II Falling Object Protective Structure (FOPS) [Figure 10-30-6] for damage. Repair if damaged or replace if necessary.

### Rear Debris Chains

Figure 10-30-7



Inspect the rear debris chains (Item 1) [Figure 10-30-7] for damage. Repair if damaged or replace if necessary.

### Engine Compartment

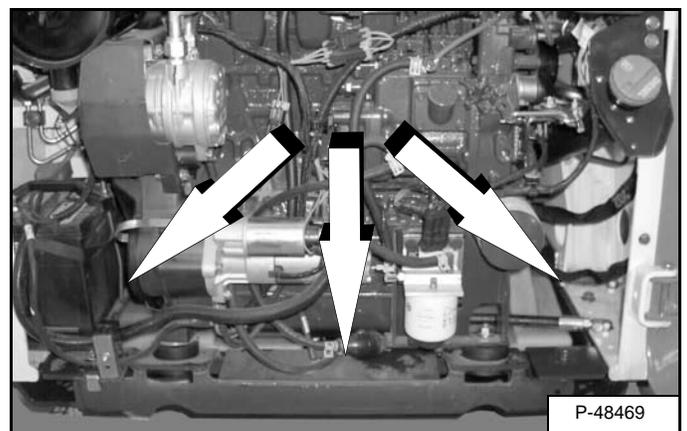


#### KEEP ENGINE COMPARTMENT AREA CLEAN

- Oil and flammable debris can increase risk of fire.

W-2642-0607

Figure 10-30-8

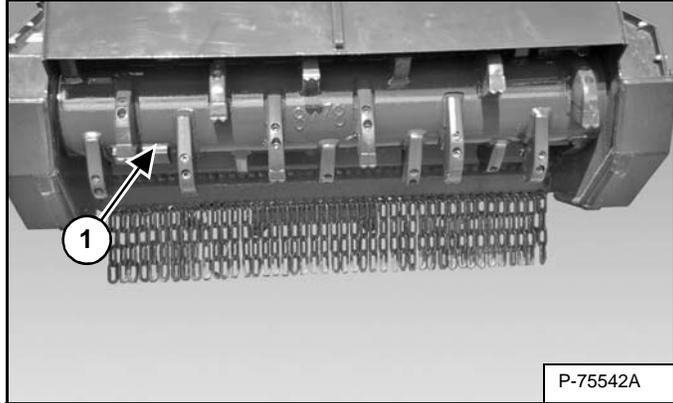


Open the rear door and inspect the engine compartment for accumulated flammable debris such as leaves, twigs, pine needles, wood shavings and sawdust. Remove all flammable debris from the engine compartment and hard to reach areas with compressed air [Figure 10-30-8]. (See Forestry Cutter Maintenance Training DVD on Page 10-30-1.) for more information regarding the cleaning of the attachment and loader.

## DAILY INSPECTION (CONT'D)

### Drum

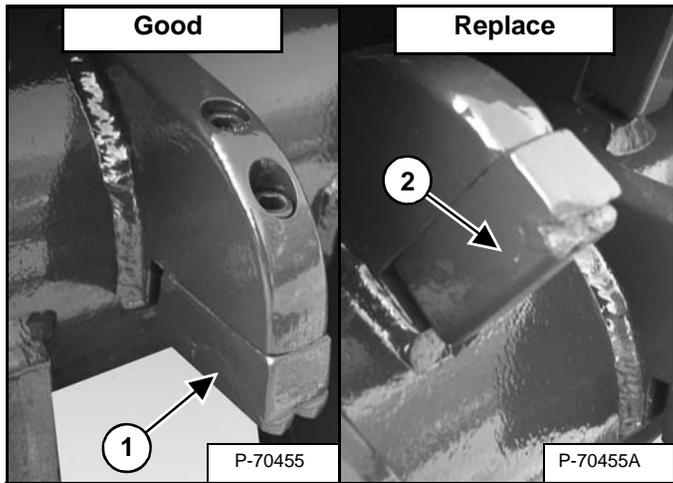
Figure 10-30-9



Inspect the drum (Item 1) [Figure 10-30-9] for material that is lodged or wrapped around the drum. Remove all foreign material from the drum.

### Carbide Teeth And Mounting Weldment

Figure 10-30-10



Inspect the carbide teeth (Item 1) daily. Replace carbide teeth (Item 2) [Figure 10-30-10] as necessary. (See CARBIDE TEETH on Page 10-50-1.)

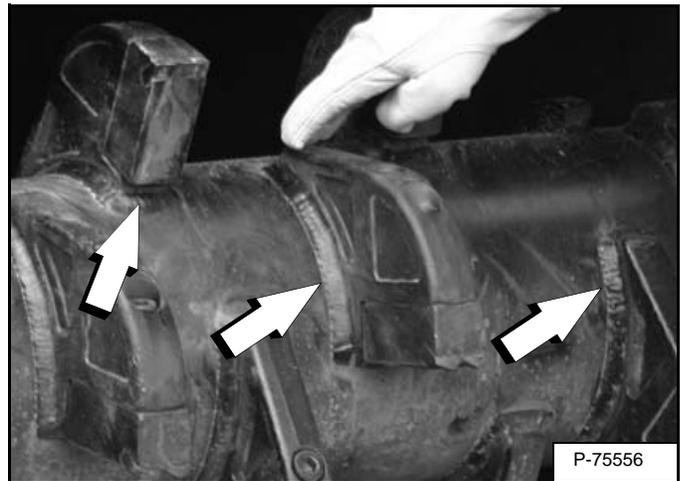
**NOTE:** Replace worn carbide teeth as necessary.

Figure 10-30-11



Tighten any loose teeth to the proper torque [Figure 10-30-11]. Tighten bolts to 175-190 ft.-lb. (240-260 N•m) torque.

Figure 10-30-12

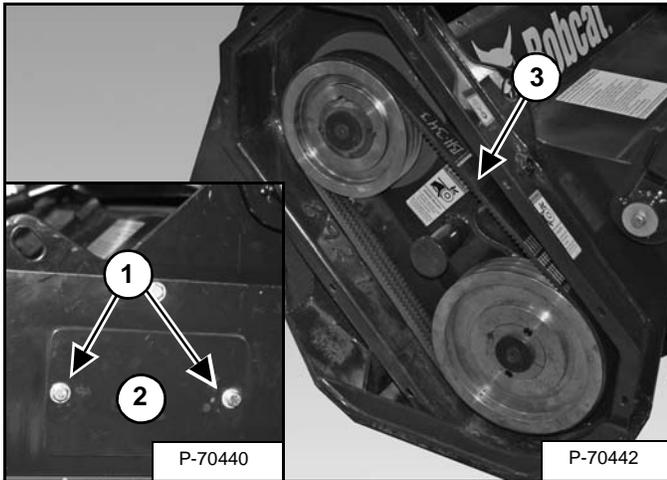


Inspect all mounting weldments [Figure 10-30-12] on the drum.

## DAILY INSPECTION (CONT'D)

### Drive Belt

Figure 10-30-13



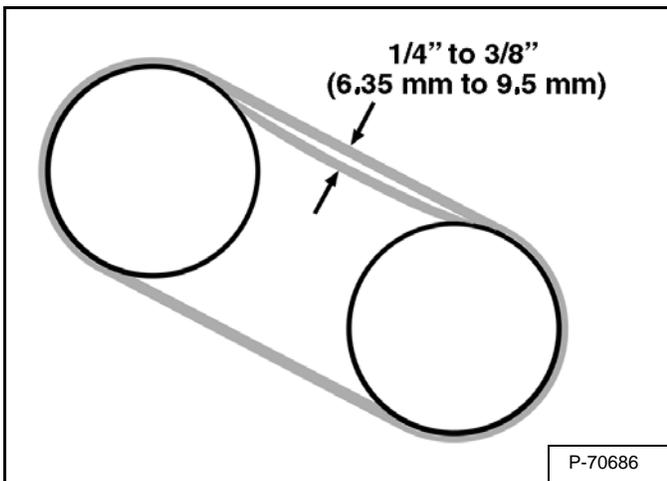
**NOTE:** Side cover removed for picture clarity [Figure 10-30-13].

Remove the two bolts (Item 1) and inspection cover (Item 2) [Figure 10-30-13].

**Installation:** Tighten bolts to 25-28 ft.-lb. (34-38 N•m) torque.

Inspect the drive belt (Item 3) [Figure 10-30-13] for proper belt deflection [Figure 10-30-14].

Figure 10-30-14

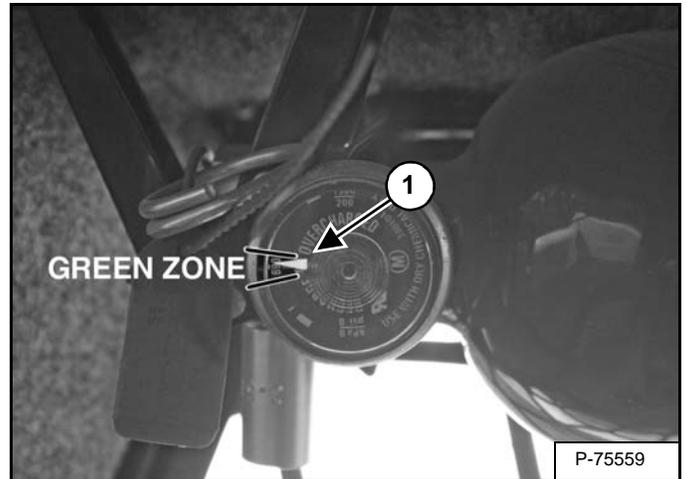


Check the belt tension by pressing forcefully on the belt. The belt should move between 1/4 inch to 3/8 inch (6,35 mm to 9,5 mm) [Figure 10-30-14].

Tighten drive belts as necessary. (See DRIVE BELT on Page 30-70-1.)

### Fire Extinguisher

Figure 10-30-15



Check the fire extinguisher gauge [Figure 10-30-15].

The indicator (Item 1) [Figure 10-30-15] must be in the GREEN ZONE. If the indicator is out of the GREEN ZONE, replace or recharge extinguisher.

## DAILY INSPECTION (CONT'D)

### Bob-Tach

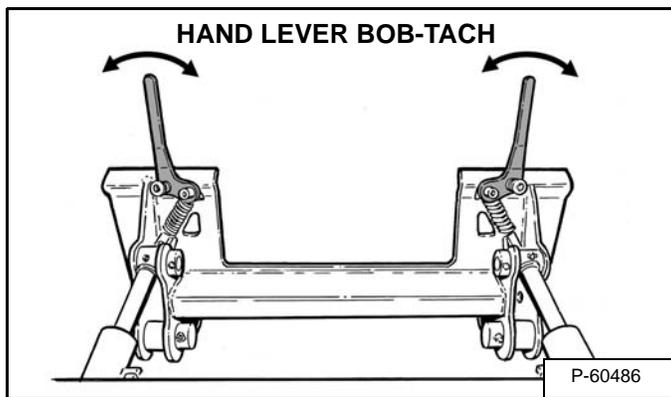
#### Hand Lever Bob-Tach

# ! 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.

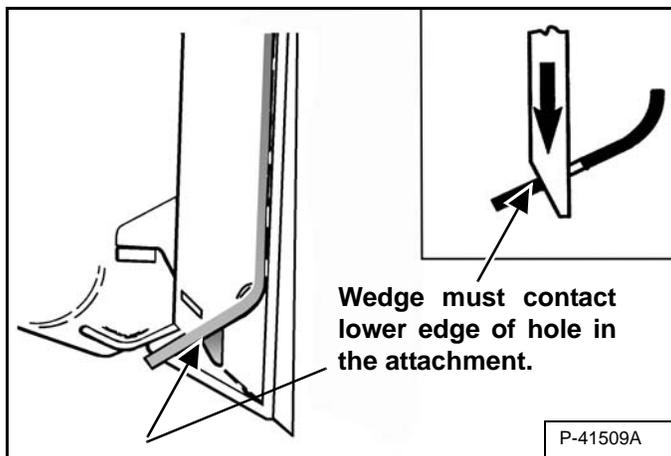
W-2102-0588

Figure 10-30-16



Move the Bob-Tach levers to engage and disengage the wedges [Figure 10-30-16]. The levers and wedges must move freely.

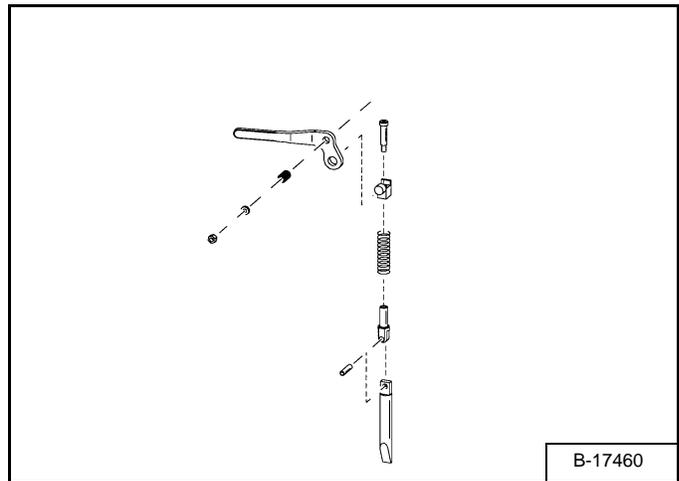
Figure 10-30-17



The wedges must extend through the holes in the attachment mounting frame [Figure 10-30-17].

If the wedge does not contact the lower edge of the hole [Figure 10-30-17], the attachment will be loose and can come off the Bob-Tach.

Figure 10-30-18



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-30-18]. 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*.)

## DAILY INSPECTION (CONT'D)

### Bob-Tach (Cont'd)

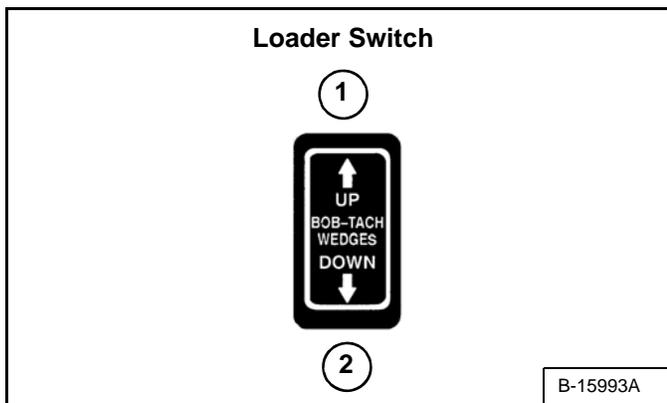
Power Bob-Tach Option



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.

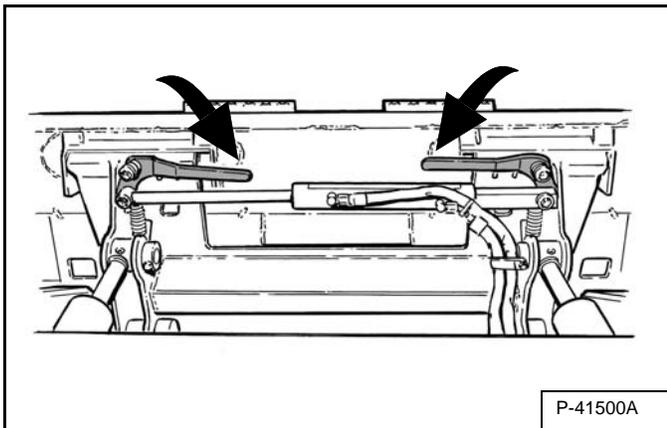
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Figure 10-30-19



B-15993A

Figure 10-30-20

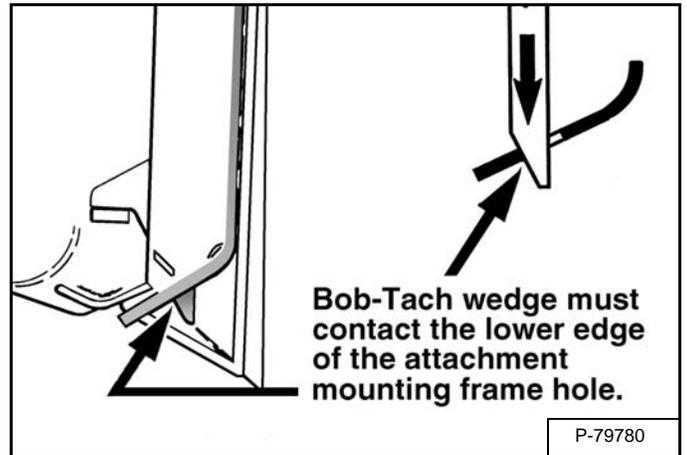


P-41500A

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 10-30-19] until the wedges are fully lowered.

The levers and wedges must move freely [Figure 10-30-20].

Figure 10-30-21

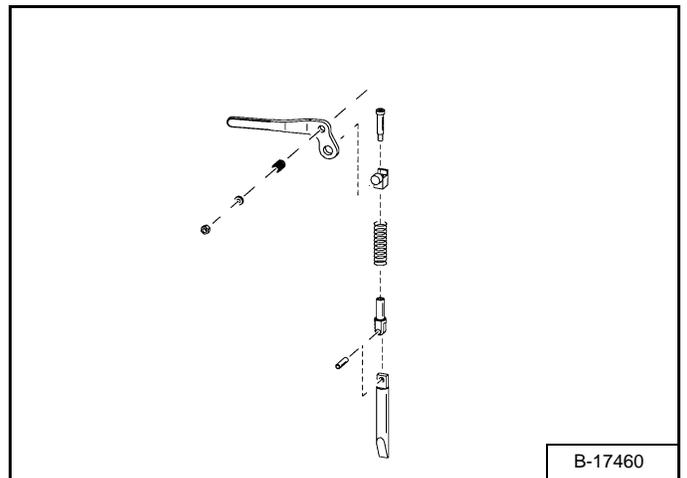


P-79780

The wedges must extend through the holes in the attachment mounting frame [Figure 10-30-21].

If the wedge does not contact the lower edge of the hole [Figure 10-30-21], the attachment will be loose and can come off the Bob-Tach.

Figure 10-30-22



B-17460

Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-30-22]. 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.*)

## **DAILY INSPECTION (CONT'D)**

### **Cleaning The Machine And Forestry Cutter**

*Machine Cleaning* (See Machine Cleaning on Page 10-60-1.)

*Forestry Cutter Cleaning* (See Forestry Cutter Cleaning on Page 10-60-5.)

## LUBRICATING THE FORESTRY CUTTER

### Lubrication Locations

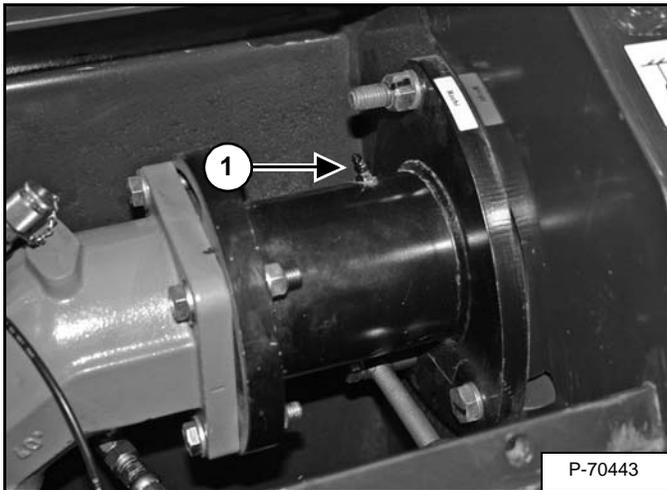
# IMPORTANT

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 forestry cutter. Apply the lubricant until extra grease shows.

Figure 10-40-1

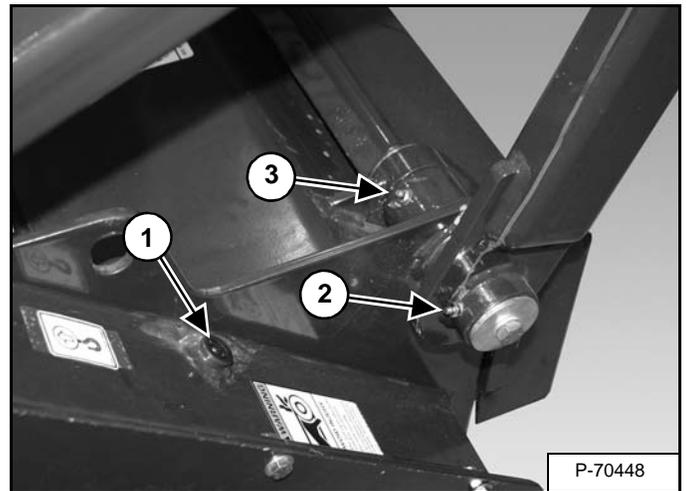


- Drive shaft bearing housing.

Grease fitting (Item 1) [Figure 10-40-1] every 50 hours. Add one pump of grease and recheck. Do not add more than two pumps.

**NOTE: Excess lubrication can elevate the operating temperature of the bearing housing.**

Figure 10-40-2



- Rotor bearings.

Grease fitting (Item 1) [Figure 10-40-2] both sides every 10 hours of operation. Add one pump of grease for every hour of operation.

**NOTE: If grease is noticed inside the belt housing, decrease the frequency of lubrication.**

- Push Bar.

Grease fittings (Item 2) [Figure 10-40-2] both sides of the push bar. Add grease until extra grease shows.

- Gate (if equipped).

Grease fittings (Item 3) [Figure 10-40-2] both sides of the gate. Add grease until extra grease shows.



**Bobcat®**

## CARBIDE TEETH

### Removal And Installation

#### Removal



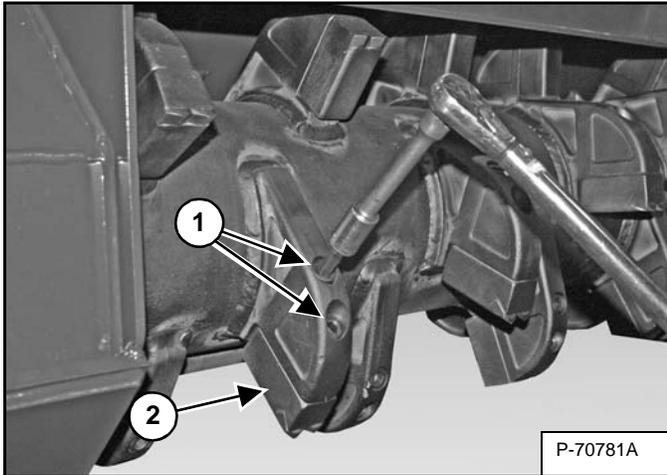
#### AVOID INJURY OR DEATH

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

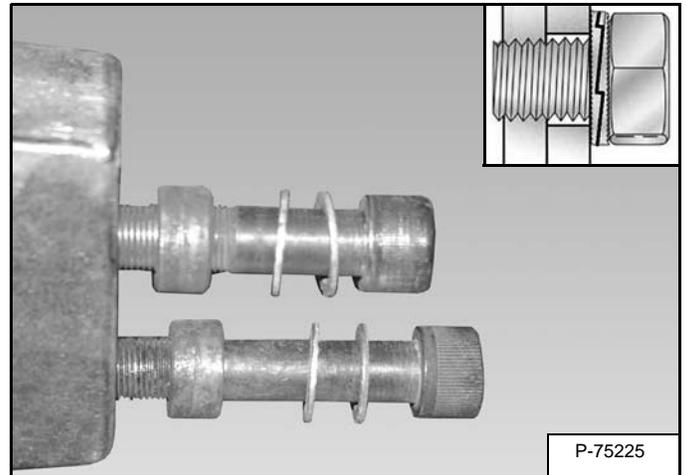
Figure 10-50-1



Remove the bolts (Item 1), nord-lock washers, bushings and carbide tooth (Item 2) [Figure 10-50-1].

#### Installation

Figure 10-50-2



**NOTE:** Always use new nord-lock washers.

**NOTE:** Replace bushings if worn or damaged.

Align the carbide tooth with the mount. Carbide tooth facing away from the drum.

Install bushings, nord-lock washers and bolts as shown in [Figure 10-50-2].

**Installation:** Tighten bolts to 175-190 ft.-lb. (240-260 N•m) torque.

Product: Bobcat Forestry Cutter Service Repair Workshop Manual  
Full Download: <https://www.arepairmanual.com/downloads/bobcat-forestry-cutter-service-repair-workshop-manual-2/>



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