

Flail Cutter

FC155-FC175

(Europe Only)

FC200



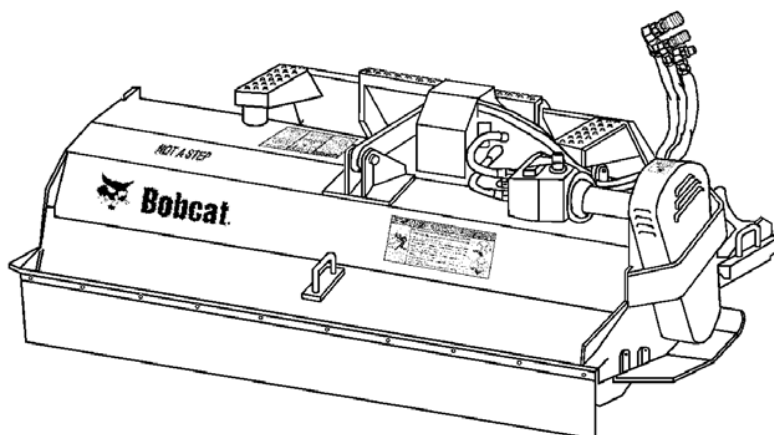
Bobcat®

Service Manual

(FC155 Europe Only) S/N A01P00101 & Above

(FC175 Europe Only) S/N 467500101 & Above

(FC200) S/N 467300101 & Above



ALPHABETICAL INDEX

BRUSH DEFLECTOR (EARLIER MODELS)	30-40-1
DAILY INSPECTION	10-20-1
DELIVERY REPORT	III
DRIVE BELTS	10-50-1
DRIVE BELTS	30-100-1
DRUM	30-50-1
FLAIL KNIVES	30-60-1
HYDRAULIC MOTOR	20-10-1
HYDRAULIC CONTROL VALVE (S/N A01P00143 & BELOW, S/N 467500163 & BELOW, S/N 467300196 & BELOW)	20-20-1
HYDRAULIC CONTROL VALVE (S/N A01P00144 & ABOVE, S/N 467500154 & ABOVE, S/N 467300197 & ABOVE)	20-21-1
HYDRAULIC SCHEMATIC	SPEC-20-1
IDENTIFICATION AND MACHINE SIGNS (DECALS)	IV
LINKAGE	30-80-1
LUBRICATION	10-30-1
MANUAL STORAGE LOCATION	III
REAR HATCH	10-40-1
ROLLER ASSEMBLY	30-20-1
RUBBER SKIRT	30-30-1
RUBBER STOP	30-70-1
SERIAL NUMBER LOCATION	III
SKID SHOE	30-10-1
SPECIFICATIONS	SPEC-10-1
TROUBLESHOOTING	10-10-1
WEAR STRIP	30-90-1

**ALPHABETICAL
INDEX**



CONTENTS

**SAFETY AND
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**MAIN
FRAME**

**SPECIFICATIONS
AND
SCHEMATICS**

SERIAL NUMBER LOCATION	III
Attachment Serial Number.....	III
MANUAL STORAGE LOCATION	III
DELIVERY REPORT.....	III
IDENTIFICATION AND MACHINE SIGNS (DECALS)	IV
SAFETY AND MAINTENANCE.....	10-01
HYDRAULIC SYSTEM	20-01
MAIN FRAME	30-01
SPECIFICATIONS AND SCHEMATICS	SPEC-01

**CALIFORNIA
PROPOSITION 65 WARNING**

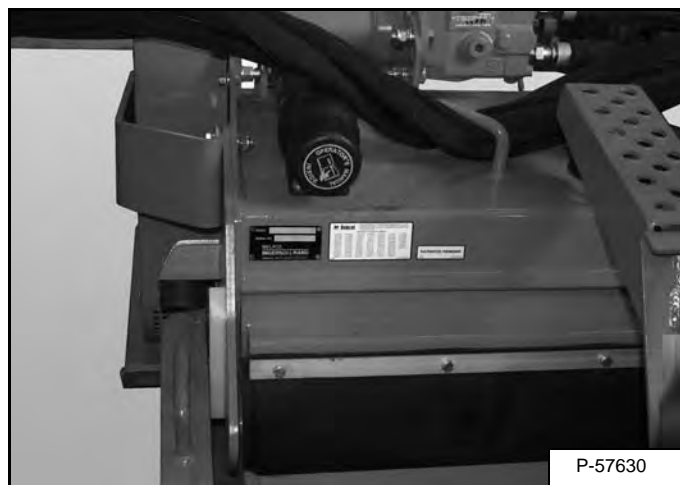
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



SERIAL NUMBER LOCATION

Attachment Serial Number

Figure 1



Always use the serial number of the flail cutter 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].

MANUAL STORAGE LOCATION

Read and understand the Operation & Maintenance Manual before operating the flail cutter.

Figure 2

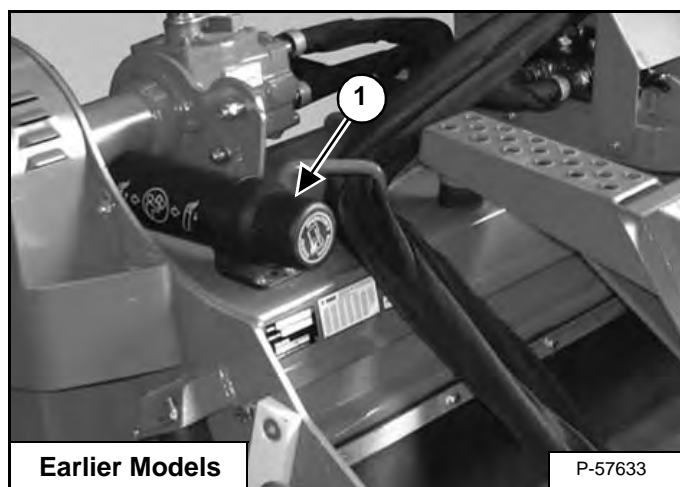
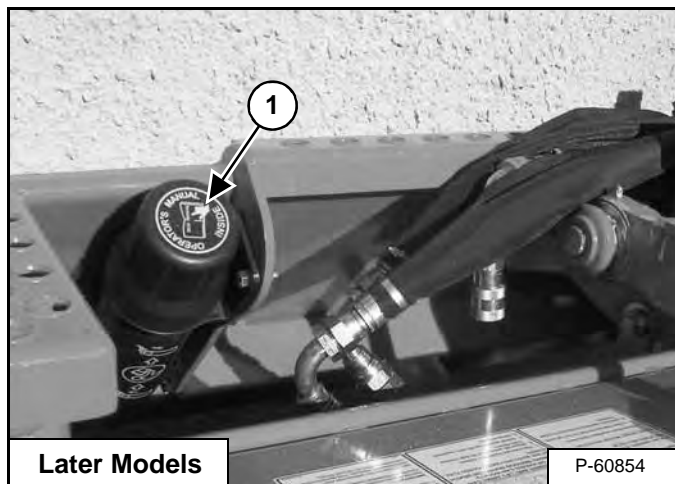


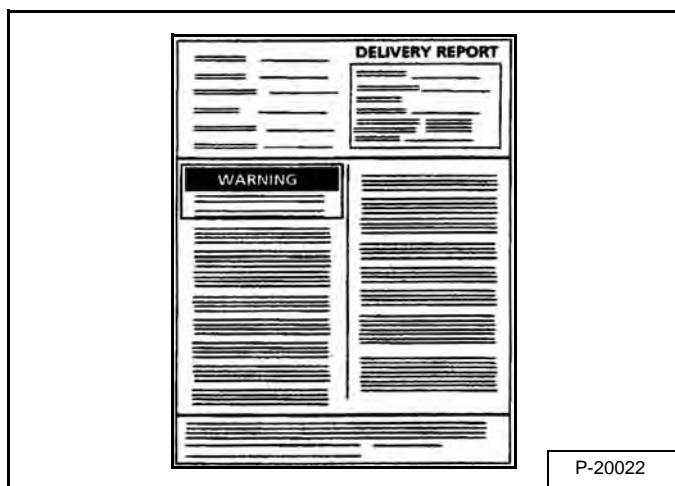
Figure 3



The Operation & Maintenance Manual and Safety Manual are stored in a container (Item 1) [Figure 2] & [Figure 3] located on the flail cutter.

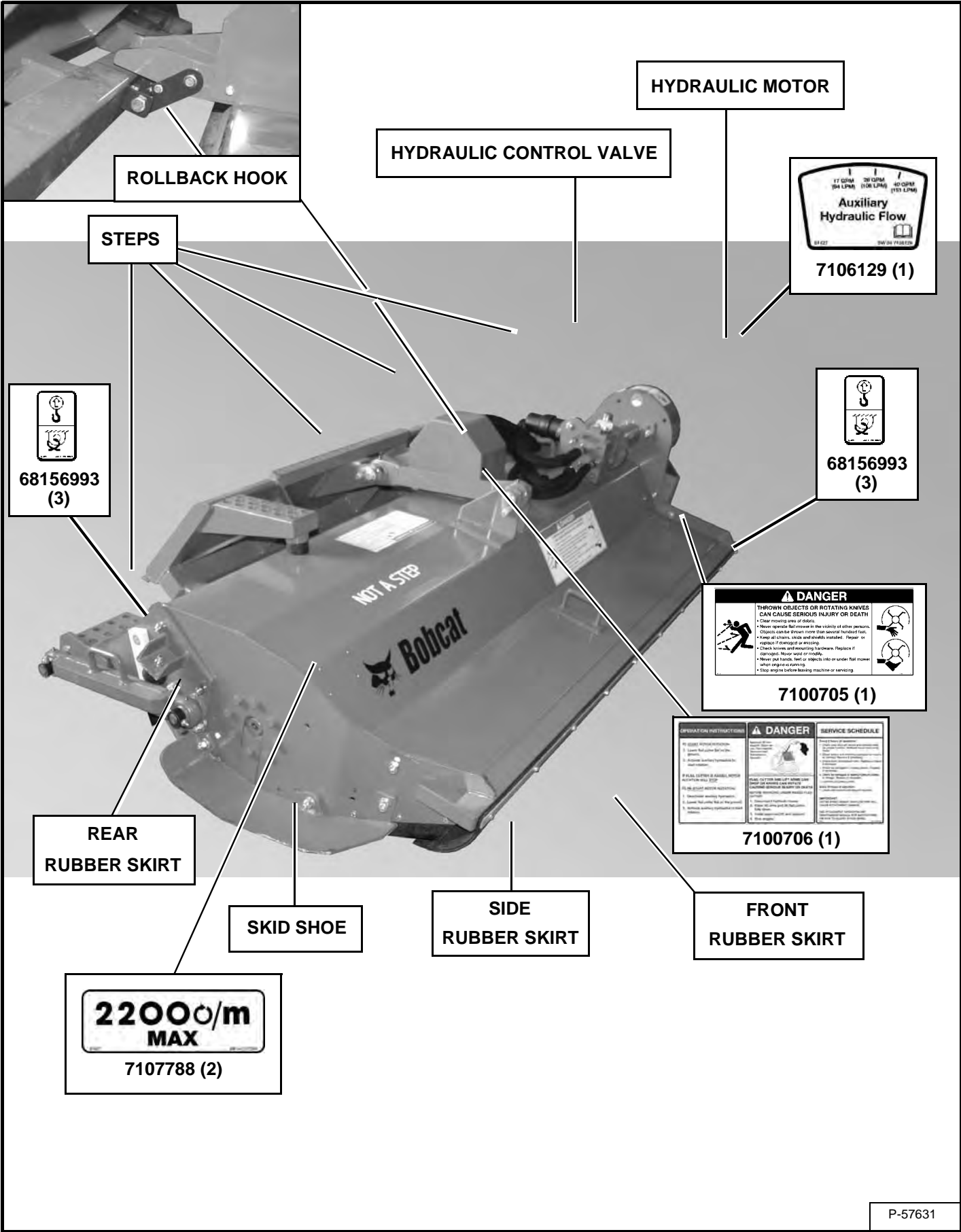
DELIVERY REPORT

Figure 4



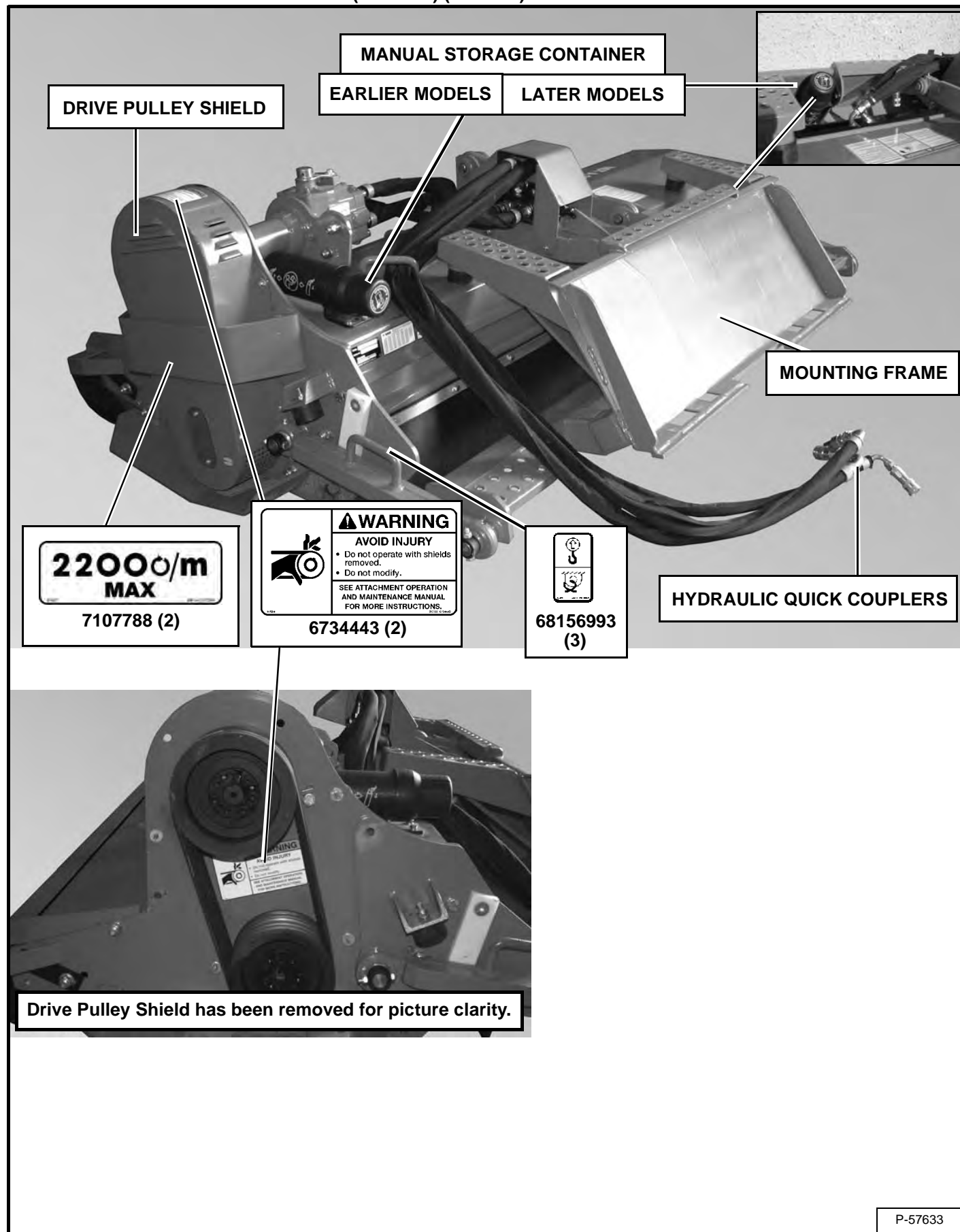
The delivery report must be filled out by the dealer and signed by the owner or operator when the flail cutter is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 4].

IDENTIFICATION AND MACHINE SIGNS (DECALS)



P-57631

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





SAFETY AND MAINTENANCE

SAFETY AND MAINTENANCE

DRIVE BELTS	10-50-1
Adjustment	10-50-1
DAILY INSPECTION	10-20-1
Attachment Mounting Frame	10-20-1
Bob-Tach	10-20-2
Checking Mechanical Linkage For Rotor Shut-Off Device.	10-20-7
Checking The Rotor Shut-Off Device.	10-20-4
Rollback Hook Inspection	10-20-4
LUBRICATION	10-30-1
REAR HATCH	10-40-1
Adjustment	10-40-1
Rear Hatch Positions	10-40-2
TROUBLESHOOTING	10-10-1
Chart	10-10-1



TROUBLESHOOTING

Chart

WARNING

AVOID INJURY OR DEATH

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

If the attachment is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the attachment. Attachment problems can be affected by a hydraulic system that is not operating to specifications or such problems as a plugged fuel filter or hydraulic filter in the machine. Connect a flow meter to the machine to check the hydraulic pump output, relief valve setting and tubelines to check flow and pressure. (See the machine Service Manual for the correct procedure to connect the flow meter).

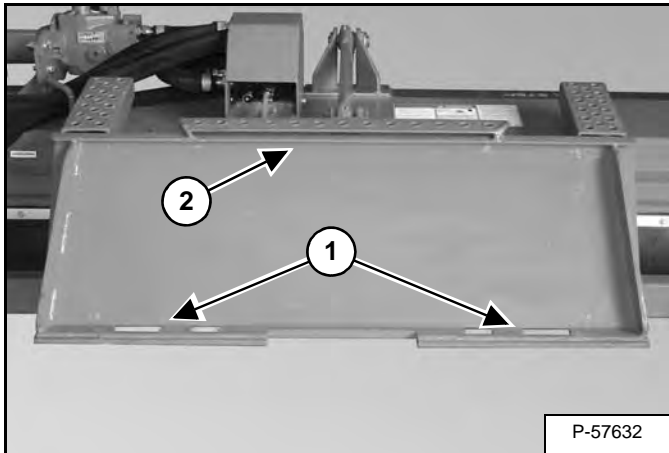
PROBLEM	CAUSE	CORRECTION
Abnormal machine vibrations.	The knife rotor is out of balance.	Rebalance the rotor.
	One or more of the knives are broken.	Replace broken knives.
	Loss of a counterweight.	Replace counterweight.
Poor Cutting.	The rotor does not reach the correct working speed.	Check belt tension.
	Machine adjustment does not comply with the instructions.	Check transmission rpm.
	Forward speed is too fast.	Adjust forward speed.
	Worn knives or parts.	Replace knives or sharpen uniformly. DO NOT change their weight and position on the rotor.
Machine absorbs too much power.	Hatch or roller out of adjustment.	Adjust the hatch and/or roller.
	Too much material and low machine power.	Adjust power and forward speed.
The roller does not turn.	Dry roller.	Lubricate roller.
	Material is fouling the guards.	Clean the guards.
	Roller is bent.	Replace roller.
	Sandy soil.	Fit roller with larger roller diameter.
Casing is punctured.	Worn sheet metal.	Replace the casing or scrap the attachment.
		Repair the casing if the rotor is still operational.
Bearings break frequently.	Casing is bent by excessive side loads.	Replace casing.
	No lubrication.	Lubricate bearings.
	Attachment overloaded.	Adjust power and forward speed.
	Rotor installed wrong.	Reinstall rotor.
	Rotor out of adjustment.	Adjust rotor.



DAILY INSPECTION

Attachment Mounting Frame

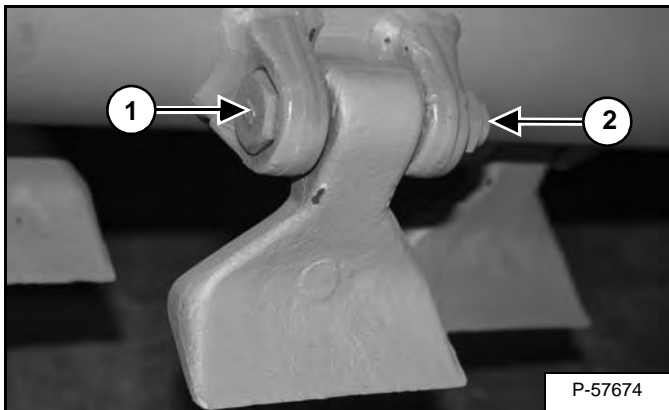
Figure 10-20-5



Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) **[Figure 10-20-5]** and all welds on the flail cutter for wear and damage each time the flail cutter is removed from the loader.

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

Figure 10-20-6



Periodically inspect the flail knife bolts (Item 1) and nuts (Item 2) **[Figure 10-20-6]** for tightness. They must be secured thoroughly as loosening could damage the rotor.

DAILY INSPECTION (CONT'D)

Bob-Tach

Hand Lever Bob-Tach

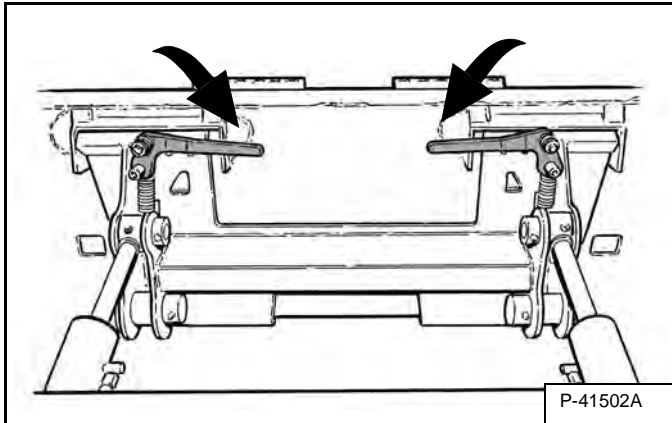
! WARNING

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.

W-2715-0208

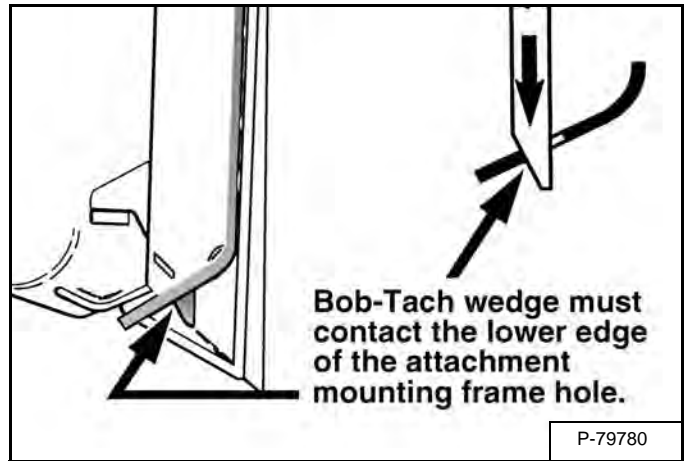
Figure 10-20-7



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 10-20-7] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-20-7].

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 attachment. (See the machine's Operation and 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.

W-2715-0208

Figure 10-20-9

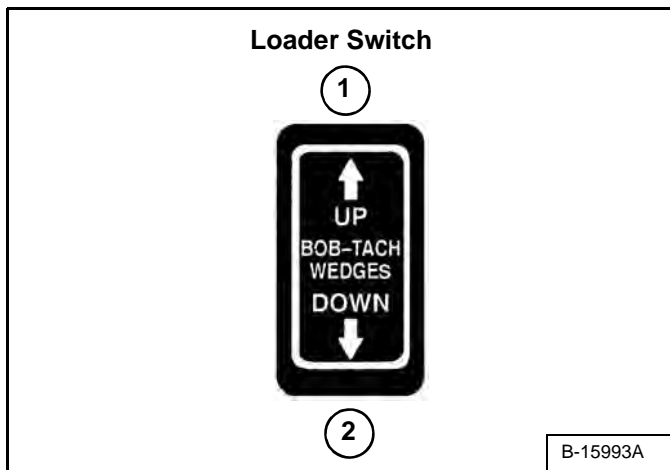


Figure 10-20-10

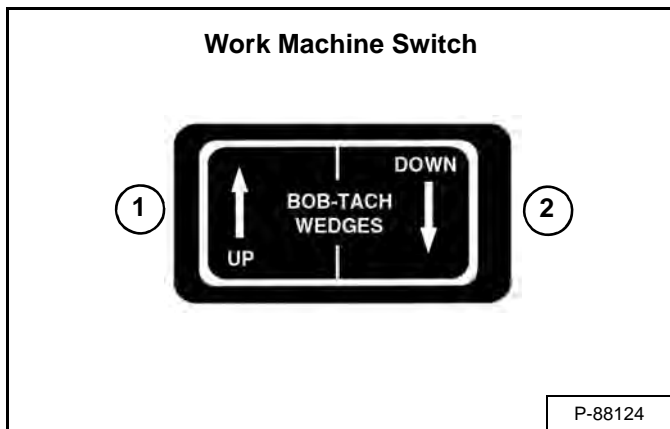
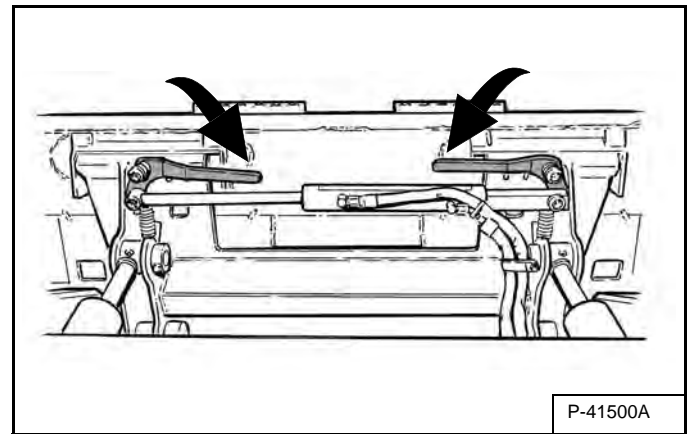
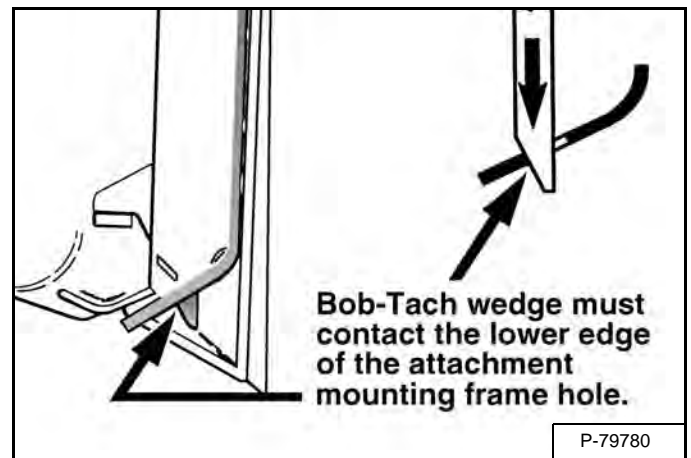


Figure 10-20-11



Push and hold the BOB-TACH “WEDGES DOWN” switch (Item 2) [Figure 10-20-9] and [Figure 10-20-10] until the levers are fully engaged in the locked position [Figure 10-20-11] (wedges fully extended through the attachment mounting frame holes).

Figure 10-20-12



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-12].

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 attachment. (See the machine's Operation and 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.)

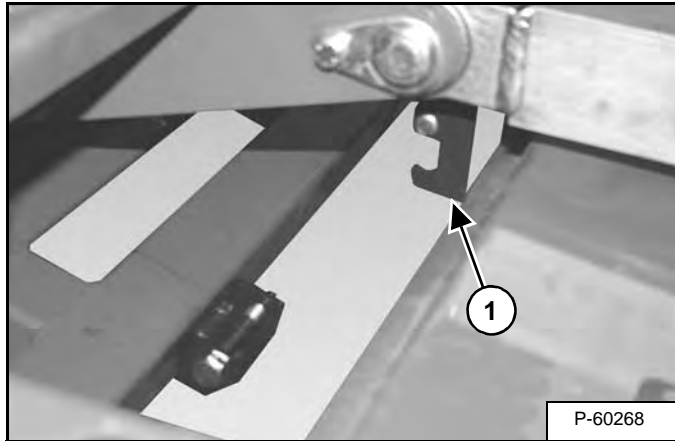
DAILY INSPECTION (CONT'D)

Rollback Hook Inspection

A rollback hook is provided to prevent the cutter deck from contacting the frame if the attachment is raised and fully rolled back on some machines.

NOTE: The rollback hook must swing freely.

Figure 10-20-13



Inspect the rollback hook (Item 1) [Figure 10-20-13]. The rollback hook must swing freely. Inspect for cracks, loose hardware or damage. Replace any parts that are damaged bent or missing.

Checking The Rotor Shut-Off Device

WARNING

- **Never operate without rotor shut-off device.**
- **Never modify the rotor shut-off device and check that it is operating properly.**

W-2628-0405

Use the following procedures to check the rotor shut-off device.

Procedure 1

Enter the machine. (See the Flail Cutter Operation & Maintenance Manual for the correct procedure.)

While in the operator seat, seat belt fastened and seat bar lowered, start the engine.

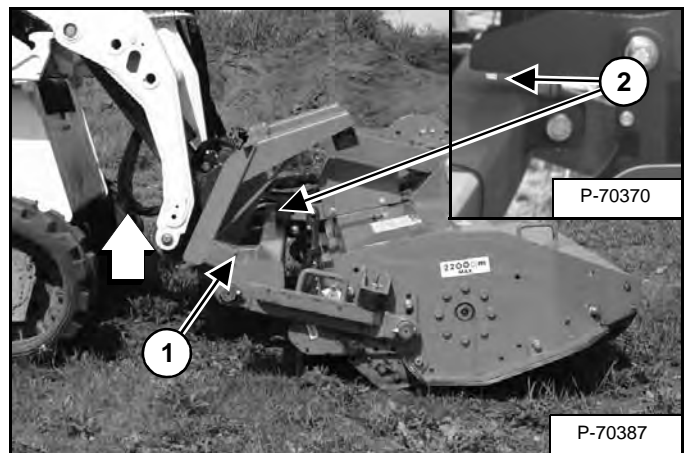
Figure 10-20-14



Place the flail cutter flat on the ground, fully lower the lift arm(s) [Figure 10-20-14].

Engage the auxiliary hydraulics. (See the Machine Operation & Maintenance Manual for the correct procedure.) The rotor should rotate.

Figure 10-20-15



Raise the lift arm(s), when the lower cross member of the attachment mounting frame (Item 1) comes in contact with the shut-off lever (Item 2) [Figure 10-20-15], the rotor must come to a complete stop within 7 seconds.

Lower the lift arm(s) fully to check that the rotor does not restart.

NOTE: If the rotor does not come to a complete stop within seven seconds or begins rotating again after the lift arms are fully lowered during any of the above procedures, see your Bobcat dealer for service.

Dear

**Thanks very much for your visiting and
patience.**

Want to get more information,

Please click here, Go back to the page.

**After your payment, you will have instant access to
your download.**

The Download Link will also be sent to your e-mail.

You will get the complete manual

Have any questions

please write to me

admin@servicemanualperfect.com