

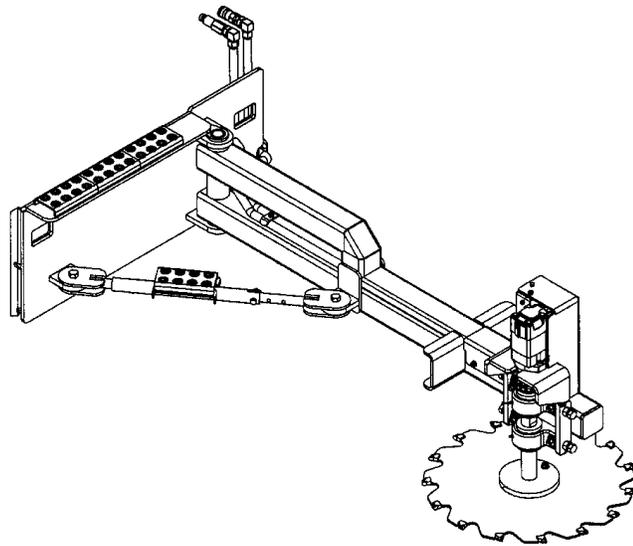
# Brush Saw



# Bobcat®

# Service Manual

S/N A13P00101 & Above



Product: Bobcat Brush Saw Service Repair Workshop Manual

Full Download: <https://www.arepairmanual.com/downloads/bobcat-brush-saw-service-repair-workshop-manual/>

Sample of manual. Download All 50 pages at:

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# MAINTENANCE SAFETY



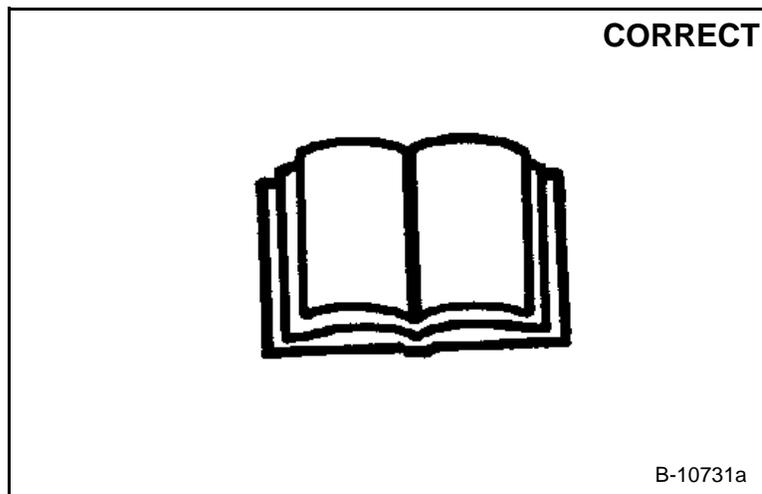
## WARNING

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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**HYDRAULIC  
SYSTEM**

**MAIN FRAME**

**SPECIFICATIONS**

**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.

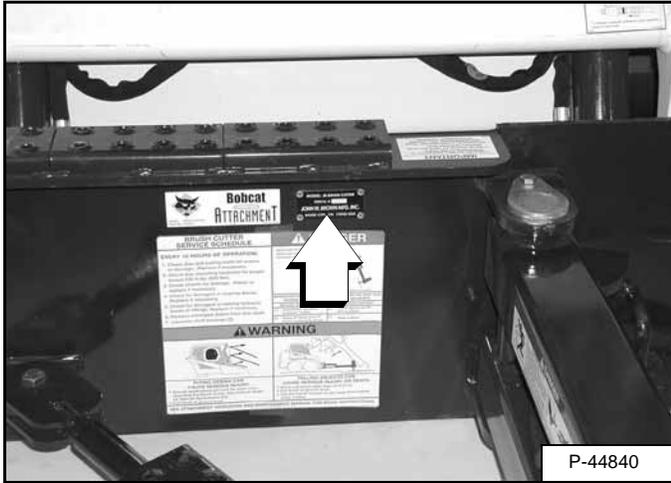


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## SERIAL NUMBER LOCATIONS

Always use the serial number of the Brush Saw 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



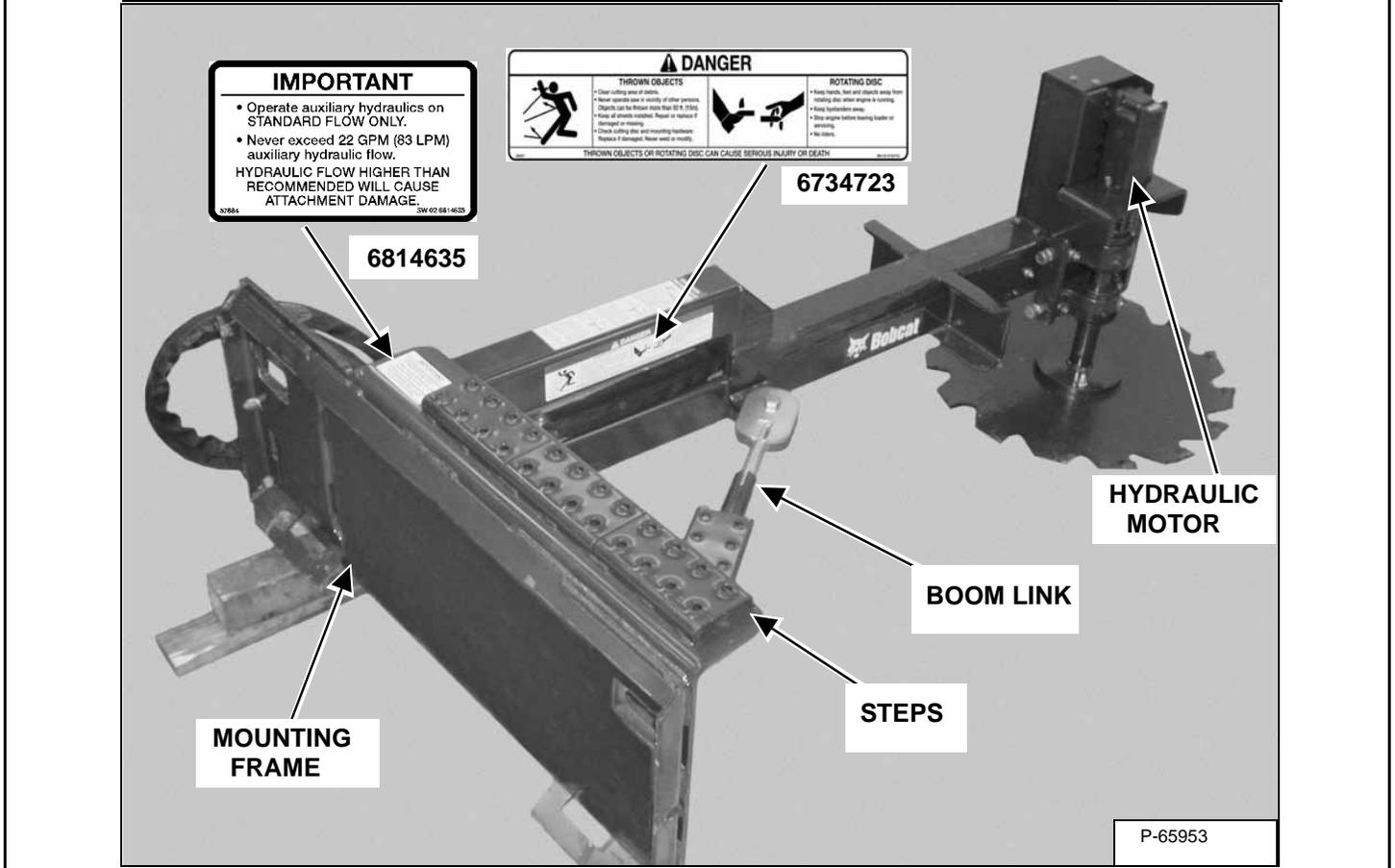
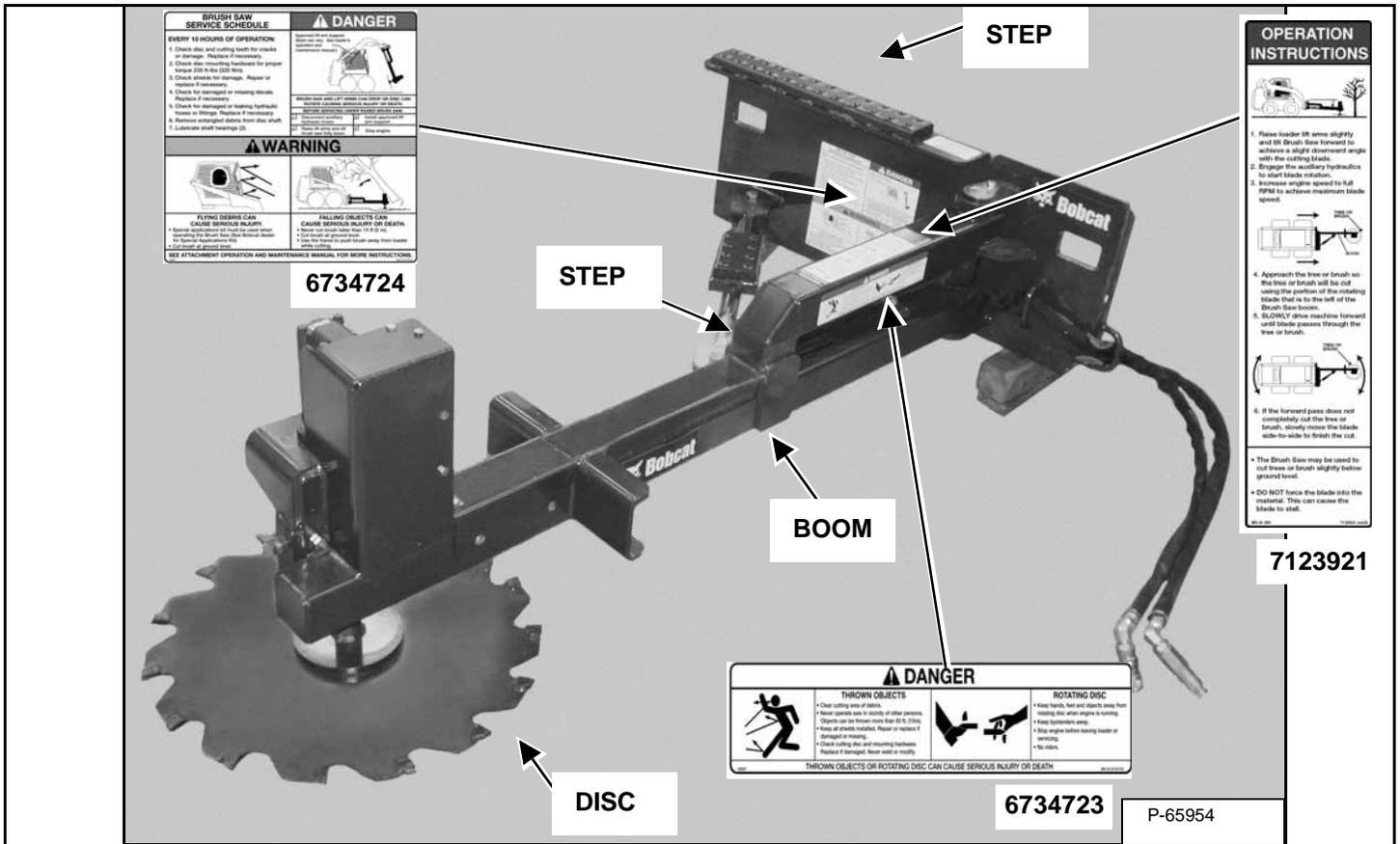
The serial number plate is located at the front of the frame [Figure 1].

## ATTACHMENT DELIVERY REPORT

Figure 2

The delivery report must be filled out by the dealer and signed by the owner or operator when the Brush Saw is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 2].

# IDENTIFICATION AND MACHINE SIGNS (DECALS)



**SAFETY & MAINTENANCE**

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## TROUBLESHOOTING

If the attachment is not working correctly, check the hydraulic system of the Loader 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 Loader. Connect a flow meter to the Loader to check the hydraulic pump output, relief valve setting and tubelines to check flow and pressure. (See the Loader Service Manual for the correct procedure to connect the flow meter.)

# WARNING

**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.**

W-2003-0199

PROBLEM	CAUSE	CORRECTION
Poor cutting.	Travel speed too fast.	Reduce travel speed.
	Damaged motor	Repair or replace motor.
	Low disc RPM.	Check auxiliary flow and pressure.
	Worn, damaged or missing cutting teeth.	Replace cutting teeth.
Disc will not rotate.	Loader fluid level too low.	Add hydraulic fluid to the fluid reservoir on the loader.
	Damaged quick couplers.	Replace quick couplers.
	Damaged hydraulic hoses.	Repair or replace hoses.
	Loader main relief valve set too low.	Adjust main relief valve to correct setting.
Vibration.	Loose or cracked hardware.	Repair or replace as needed.
	Disc worn or broken.	Replace the disc.
	Disc spindle bent.	Replace spindle.



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## LUBRICATION

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

# IMPORTANT

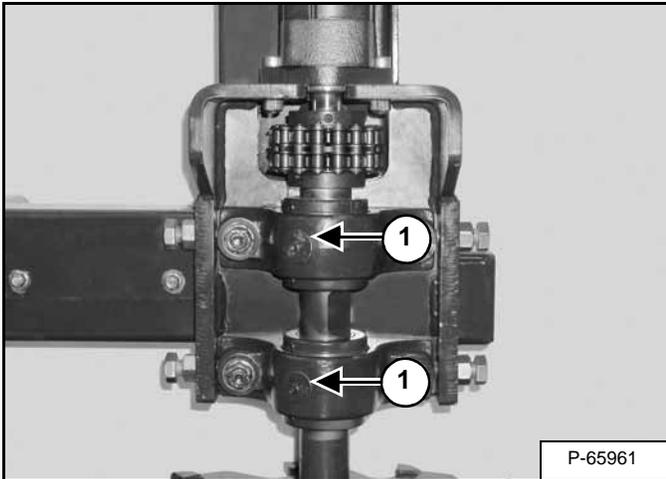
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

Lubricate the two grease fittings on the Brush Saw **every 10** hours of operation.

Lubricate the following locations:

**Figure 10-20-1**



Disc shaft (2) (Item 1) [Figure 10-20-1]



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## INSPECTION

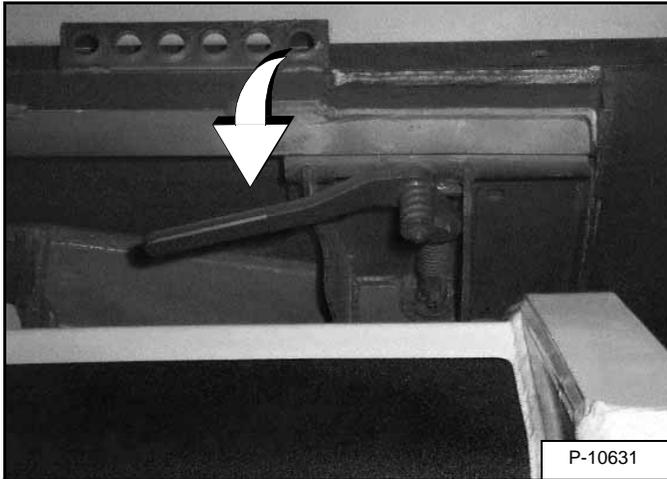
### Hand Lever Bob-Tach Inspection

# 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.

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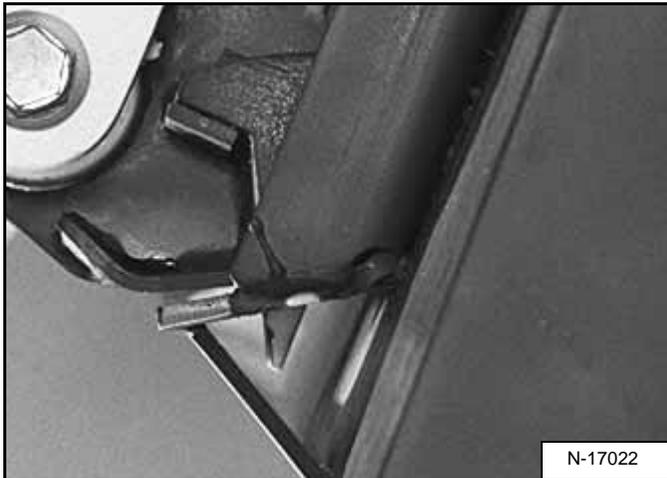
Figure 10-30-1



Move the Bob-Tach levers down to engage the wedges [Figure 10-30-1].

The levers and wedges must move freely.

Figure 10-30-2

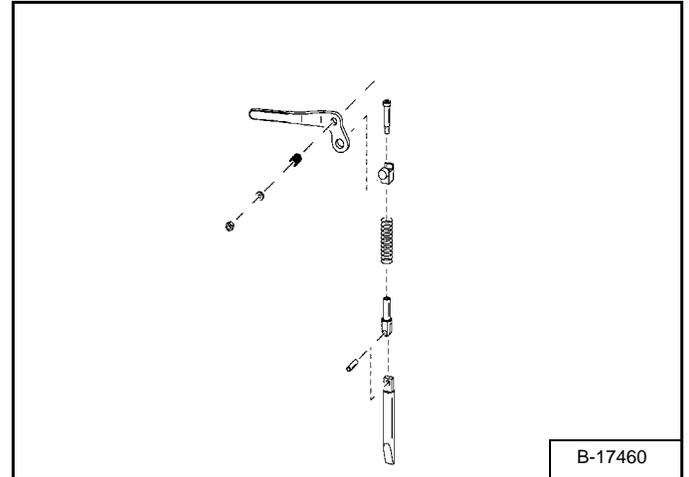


The wedges must extend through the holes in the attachment mounting frame.(Item 2) [Figure 10-30-2]

The spring loaded wedge (Item 1) must contact the lower edge of the hole in the attachment (Item 2) [Figure 10-30-2].

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

Figure 10-30-3



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [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 MACHINE.*)

## INSPECTION (CONT'D)

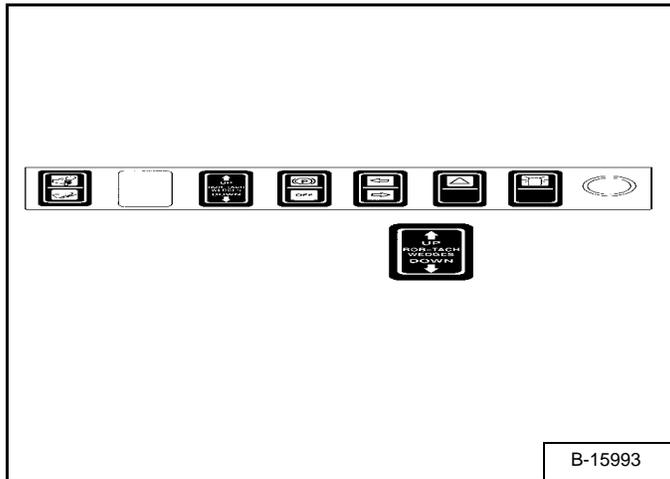
### Power Bob-Tach Inspection

# ! 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 10-30-4



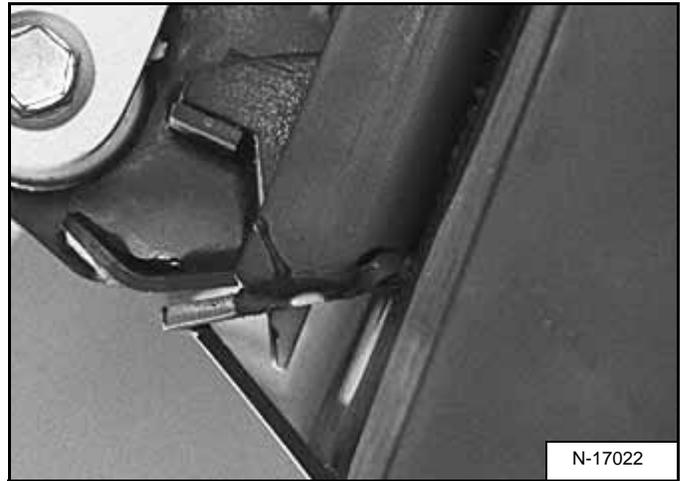
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Push and hold the *BOB-TACH WEDGES UP* switch until wedges are fully raised. Push and hold the *BOB-TACH WEDGES DOWN* switch until the wedges are fully down [Figure 10-30-4].

The wedges must move freely.

**NOTE:** The Power Bob-Tach system has continuous pressurized oil to keep the wedges in the engaged position and prevent attachment disengagement. Because the wedges can slowly lower, the operator may need to reactivate the switch (WEDGES UP) before installing an attachment to be sure both wedges are fully raised before installing the attachment.

Figure 10-30-5



The wedges must extend through the holes in the attachment mounting frame (Item 2) [Figure 10-30-5].

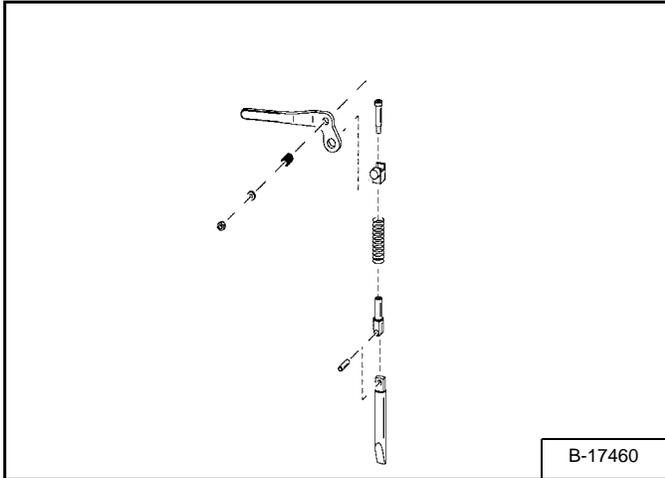
The spring loaded wedge (Item 1) must contact the lower edge of the hole in the attachment (Item 2) [Figure 10-30-5].

If the wedge does not contact the lower edge of the hole the attachment will be loose and can come off the Bob-Tach [Figure 10-30-5].

## INSPECTION (CONT'D)

### Power Bob-Tach Inspection (Cont'd)

Figure 10-30-6



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-30-6].

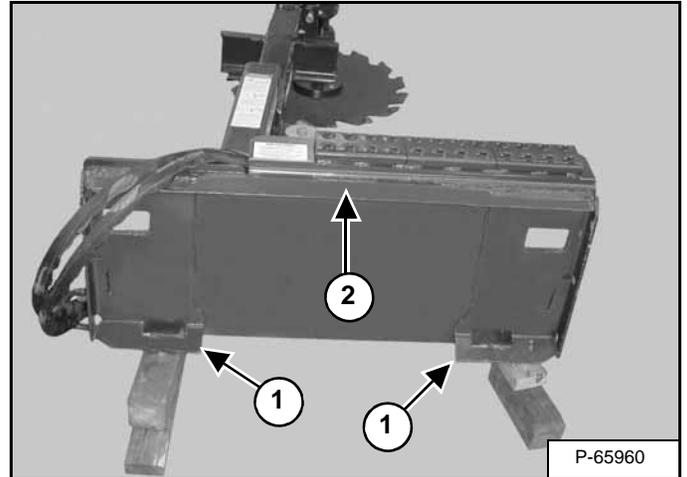
Replace any parts that are damaged, bent, or missing. Keep all fasteners tight.

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.*)

## Attachment Mount Inspection

Figure 10-30-7



Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) [Figure 10-30-7], and all welds on the attachment mount for wear and damage each time the attachment is removed from the loader.



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**HYDRAULIC  
SYSTEM**



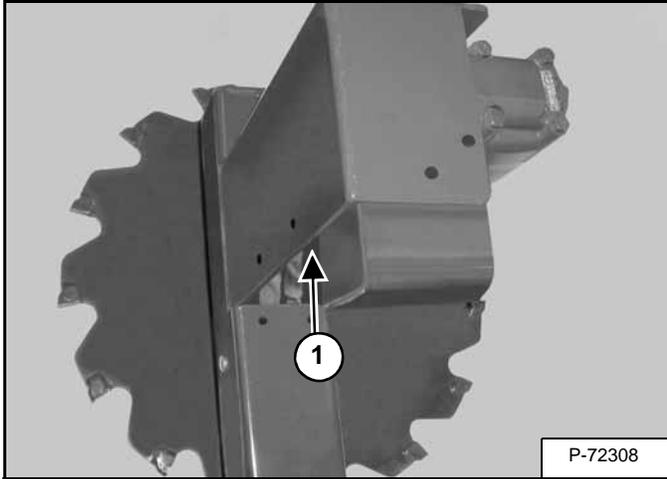
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## HYDRAULIC MOTOR

### Removal And Installation

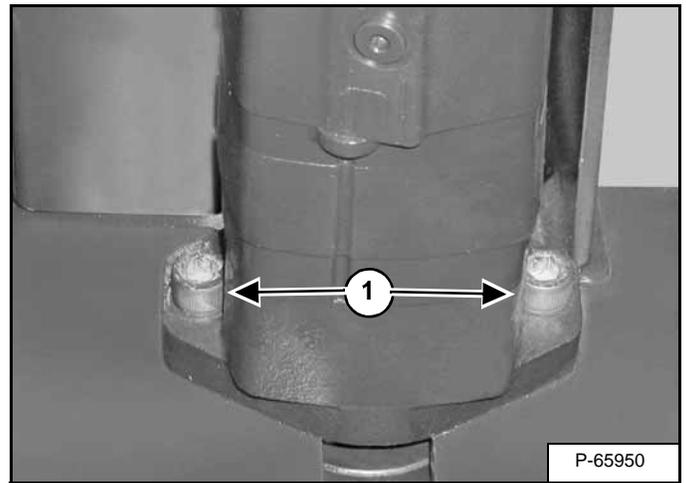
Remove the shaft assembly. (See Removal on Page 30-30-1.)

**Figure 20-10-1**



Mark and remove the two hydraulic hoses (Item 1) **[Figure 20-10-1]** from the motor.

**Figure 20-10-2**



Remove the two mounting bolts (Item 1) **[Figure 20-10-2]**

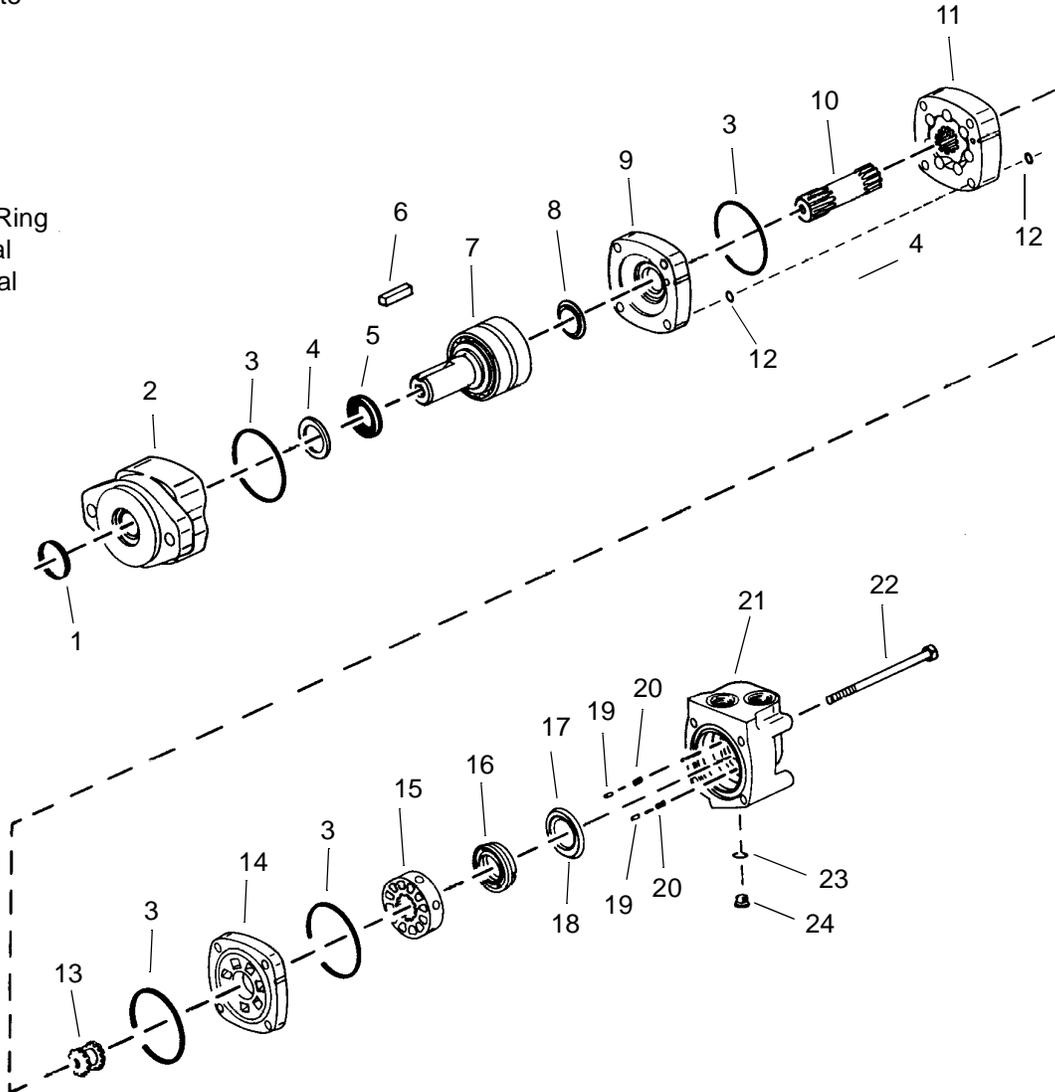
**Installation:** Tighten the mounting bolts to 110 ft.-lb. (149,2 N•m) torque.

Remove the hydraulic motor.

# HYDRAULIC MOTOR (CONT'D)

## Parts Identification

1. Shaft Seal
2. Housing
3. O-Ring
4. Back-Up Ring
5. Seal
6. Key
7. Shaft Assy.
8. Seal Face
9. Wear Plate
10. Shaft
11. Geroler
12. O-Ring
13. Shaft
14. Plate
15. Valve
16. Balance Ring
17. Inner Seal
18. Outer Seal
19. Pin
20. Spring
21. Housing
22. Bolt
23. O-Ring
24. Plug



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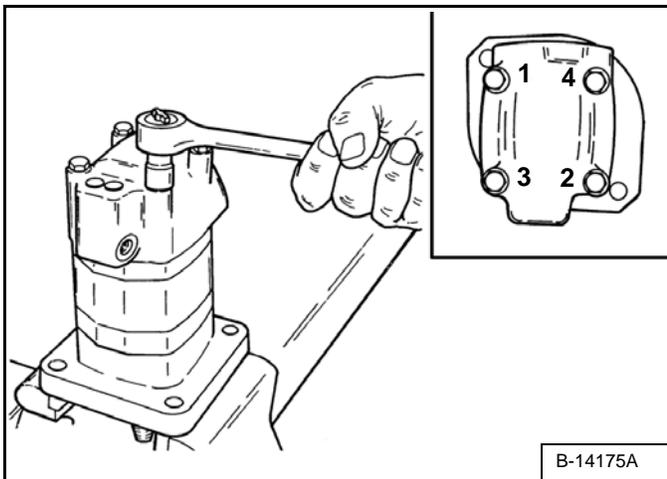
# IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

I-2003-0888

Remove the flow control port block from the hydraulic motor.

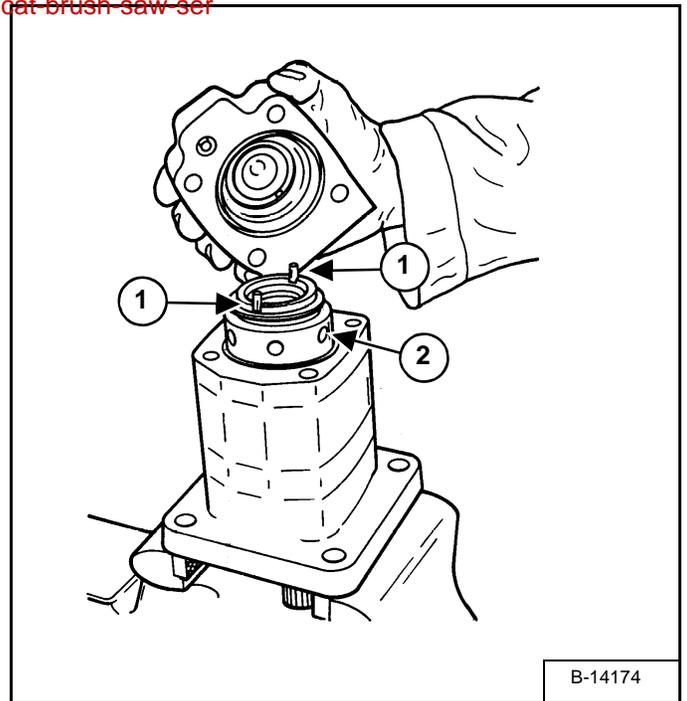
Figure 20-10-3



Remove the four bolts from the motor [Figure 20-10-3].

**Assembly:** Tighten the bolts to 37 ft.-lbs. (50 Nm) torque in the correct sequence (Inset) [Figure 20-10-3].

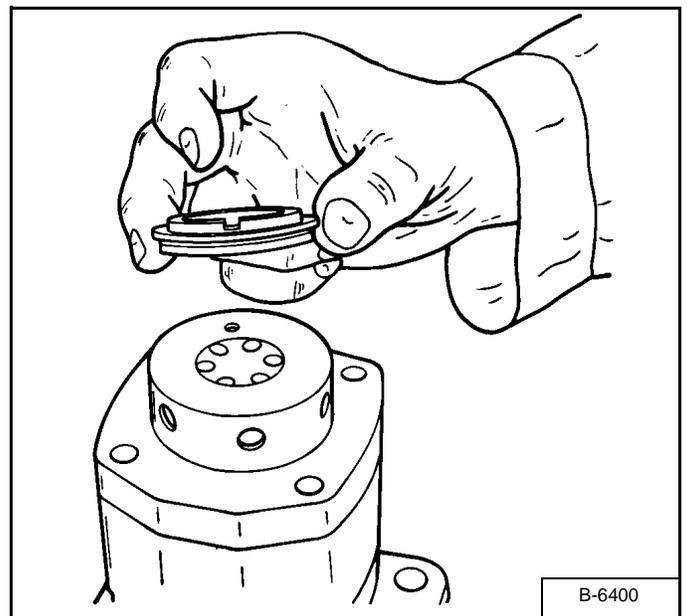
Figure 20-10-4



Lift the valve housing straight up. If done carefully, the springs (Item 1) and balance plate (Item 2) [Figure 20-10-4] will stay on the valve.

Remove the O-rings.

Figure 20-10-5



Remove the balance plate [Figure 20-10-5].