

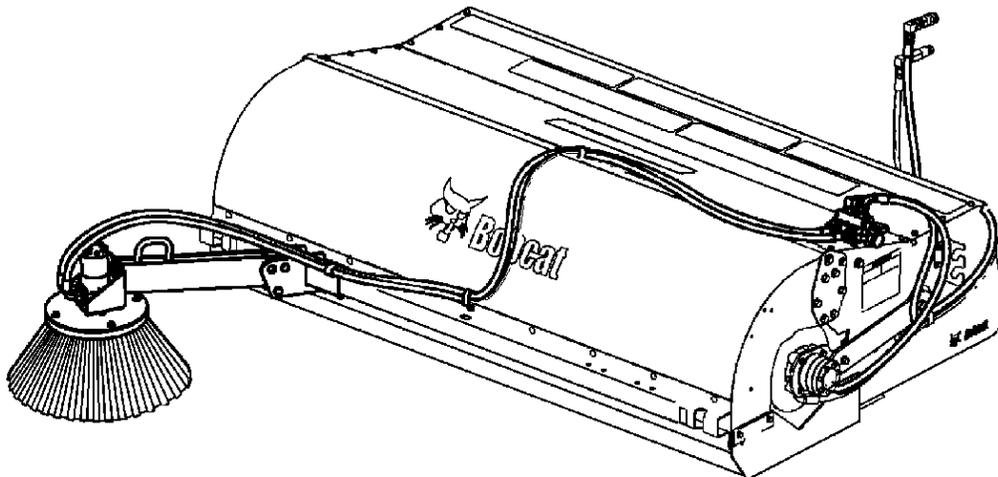


**Bobcat**®

**Sweeper**

# Service Manual

(36 Inch) S/N A7P200101 & Above  
(44 Inch) S/N A7NW00101 & Above  
(48 Inch) S/N A9T600101 & Above  
(54 Inch) S/N A7NU00101 & Above  
(84 Inch) S/N A00A00101 & Above



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# MAINTENANCE SAFETY



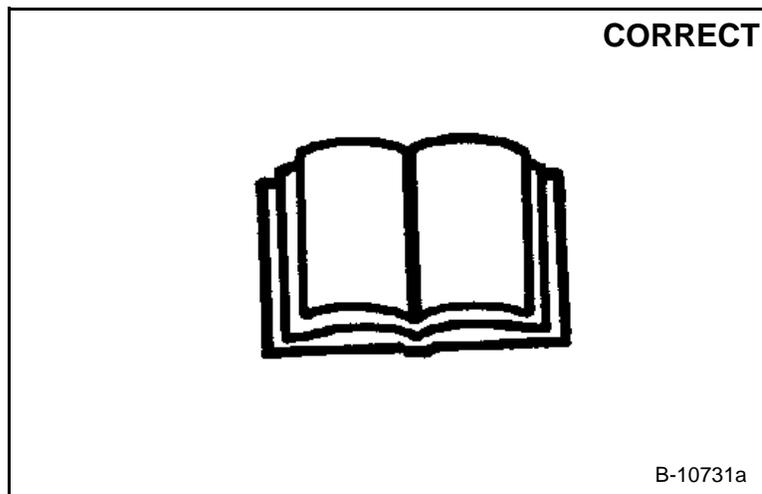
## WARNING

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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## ALPHABETICAL INDEX

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**SAFETY AND  
MAINTENANCE**

**HYDRAULIC  
SYSTEM**

**MAIN  
FRAME**

**SPECIFICATIONS  
AND  
SCHEMATICS**

## REFERENCE INFORMATION

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

Sweeper Serial Number

---

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---

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NOTES:

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YOUR BOBCAT® DEALER:

ADDRESS:

PHONE:

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

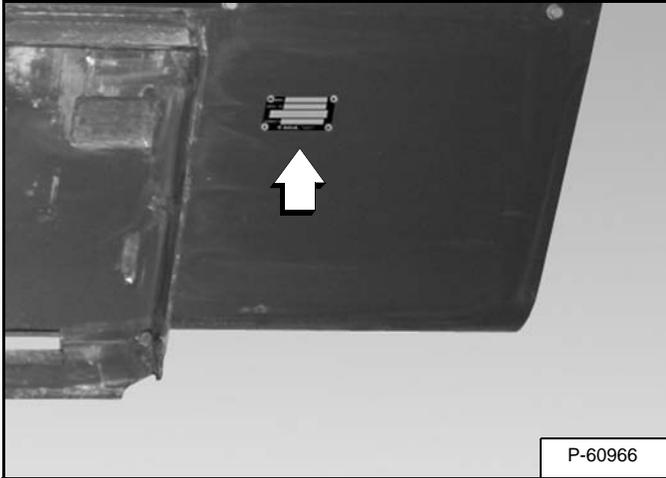
Bobcat Company Europe  
J. Huysmanslaan 59  
B-1651 LOT  
Belgium



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## SERIAL NUMBER LOCATION

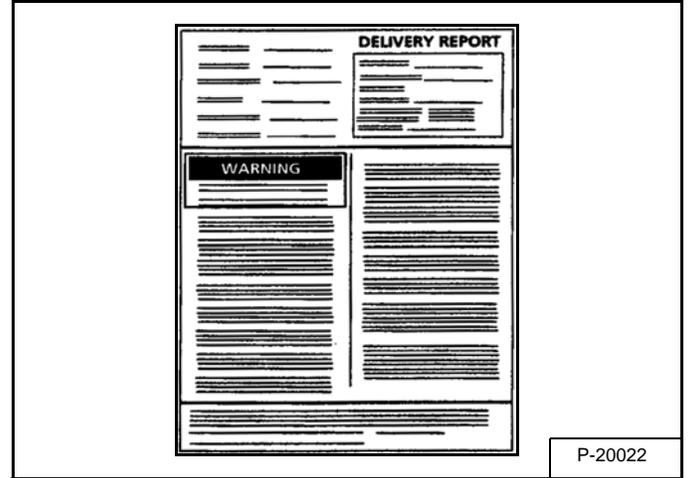
Figure 1



Always use the serial number of the sweeper 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].

## ATTACHMENT DELIVERY REPORT

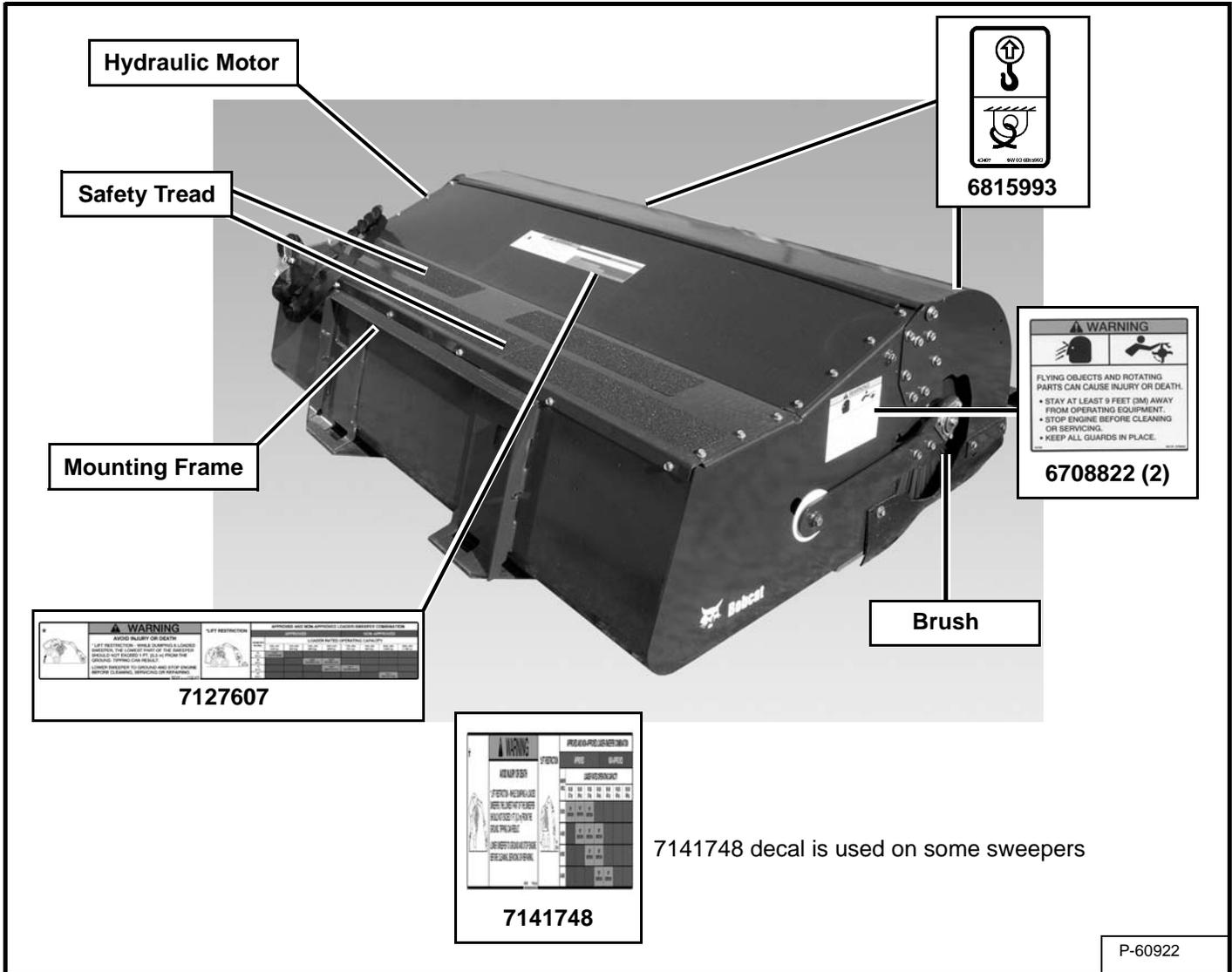
Figure 2



The attachment delivery report must be filled out by the dealer and signed by the owner or operator when the sweeper 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)

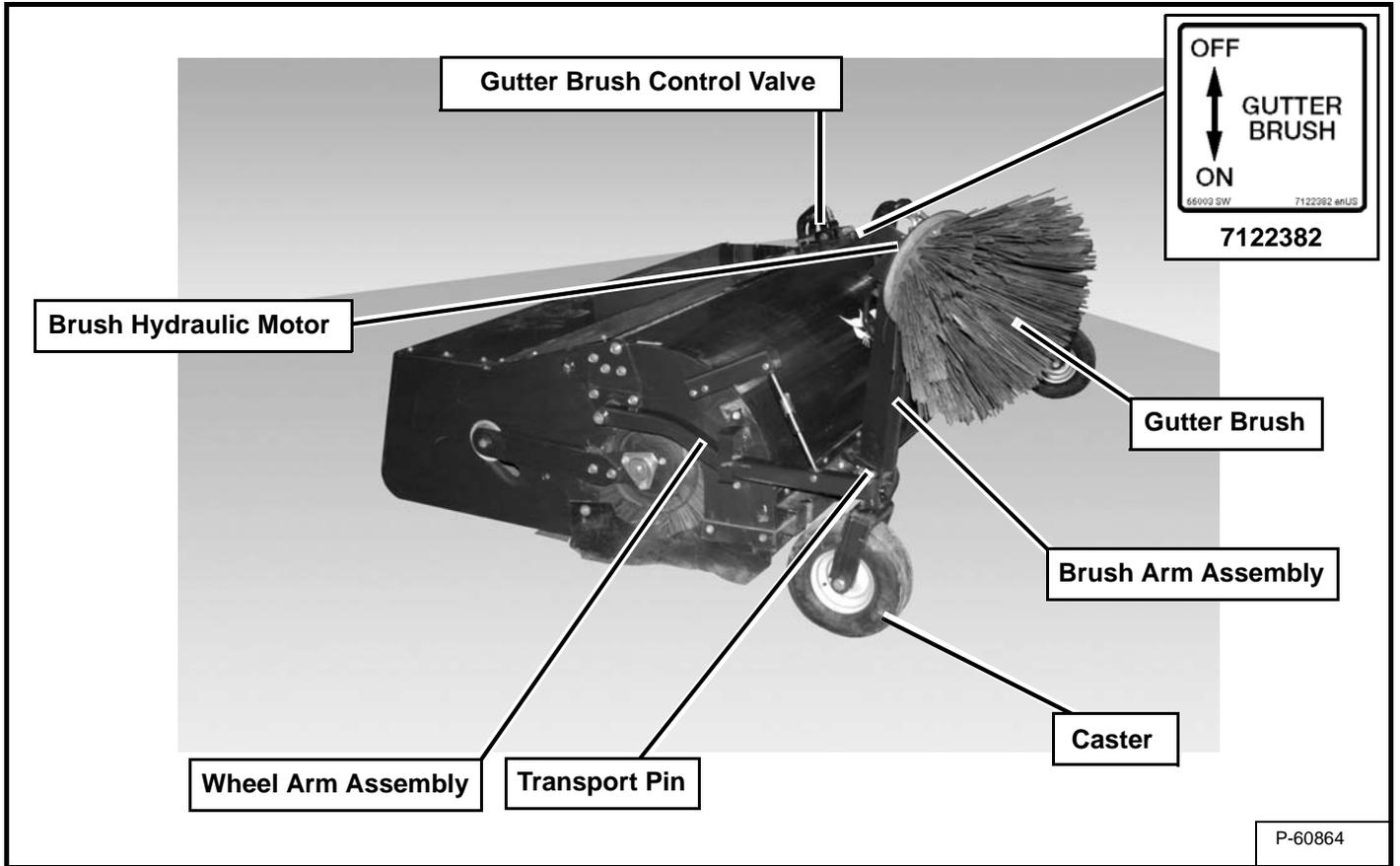
## Sweeper



P-60922

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

Gutter Brush And Wheel Kit (Optional)





## SAFETY AND MAINTENANCE

## SAFETY AND MAINTENANCE

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## TROUBLESHOOTING



### WARNING

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W-2003-0903

If the Sweeper is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the Sweeper. Sweeper problems can be affected by a hydraulic system that is not operating to specifications. 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.)

Use the following troubleshooting chart to locate and correct problems which most often occur with the sweeper.

PROBLEM	CAUSE	CORRECTION
Sweeper will not rotate.	Auxiliary front hydraulics not engaged.	Engage the machine's front auxiliary hydraulics.
	Auxiliary hydraulic switch not engaged.	Engage auxiliary hydraulic switch.
	Excessive hydraulic leakage.	Check hoses and hydraulic motor.
	No hydraulic flow.	Check hydraulic pump flow.
Sweeper operation not effective.	Sweeper bristles worn.	Adjust bristle to cutting edge distance. Replace sweeper bristle sections.
	Sweeper rotating in wrong direction of loader travel.	Reverse sweeper rotation or the direction of loader travel.
Gutter brush will not rotate.	Control valve for Gutter Brush not activated.	Move the valve spool to activate Gutter Brush.
Gutter brush operation not effective.	Gutter brush not making contact with surface.	Lower gutter brush to sweeping position.
	Gutter brush rotating in wrong direction of loader travel.	Change direction of loader travel.

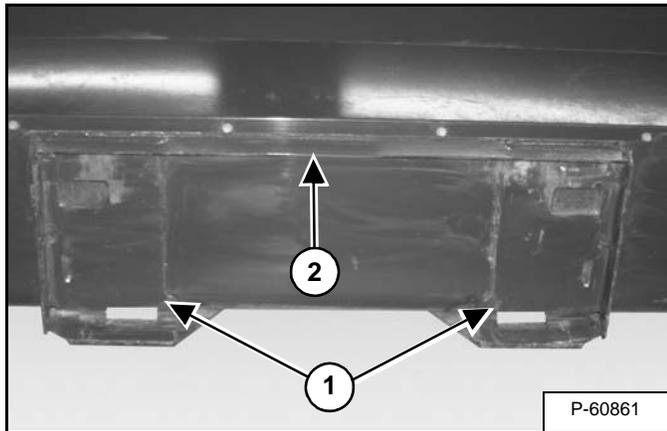


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## DAILY INSPECTION

### Sweeper Inspection

Figure 10-20-3



Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) and all welds on the sweeper for wear and damage each time the sweeper is removed from the loader [Figure 10-20-3].

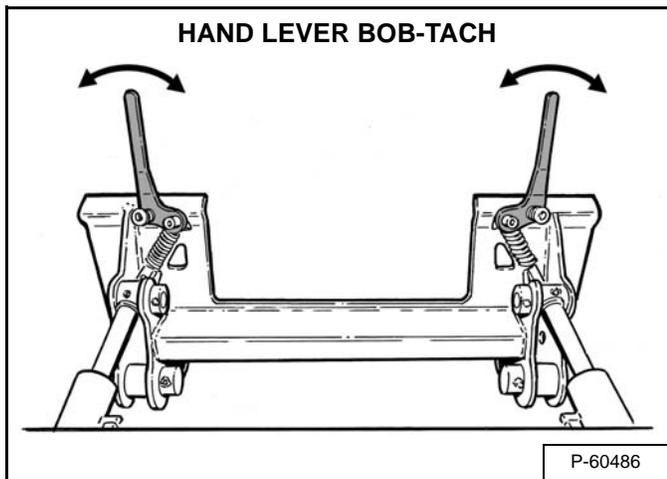
### Hand Lever Bob-Tach Inspection



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

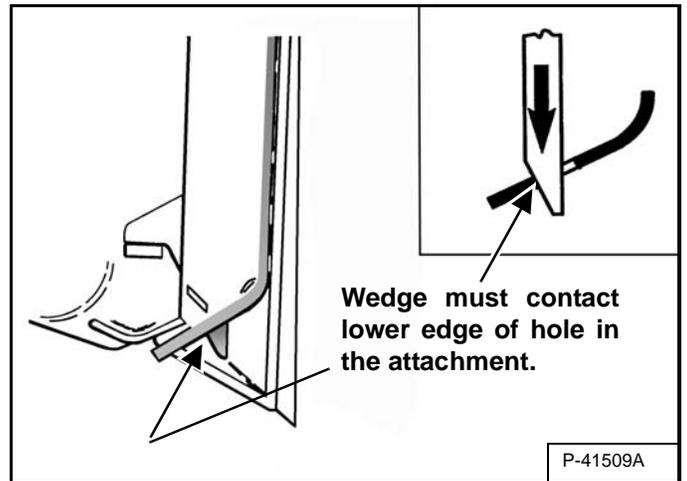
W-2102-0497

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.

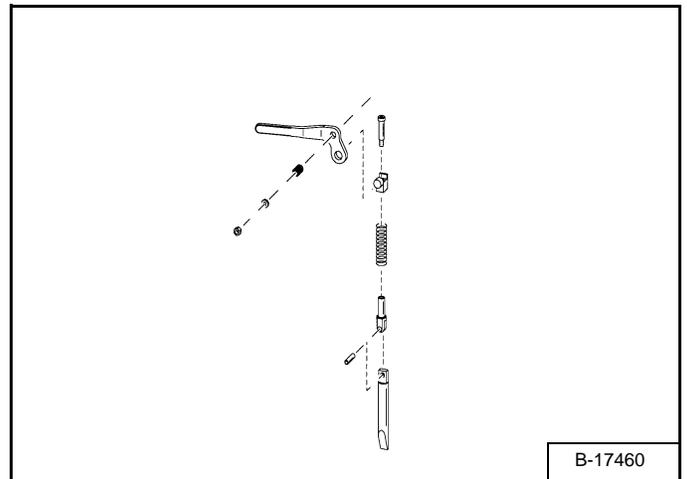
Figure 10-20-2



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 machine's Operation & Maintenance Manual for correct lubrication procedures.)

## INSPECTION (CONT'D)

### Power Bob-Tach Inspection

# ! WARNING

Bob-Tach wedges must extend through the holes in attachment. Lever(s) 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 10-20-4

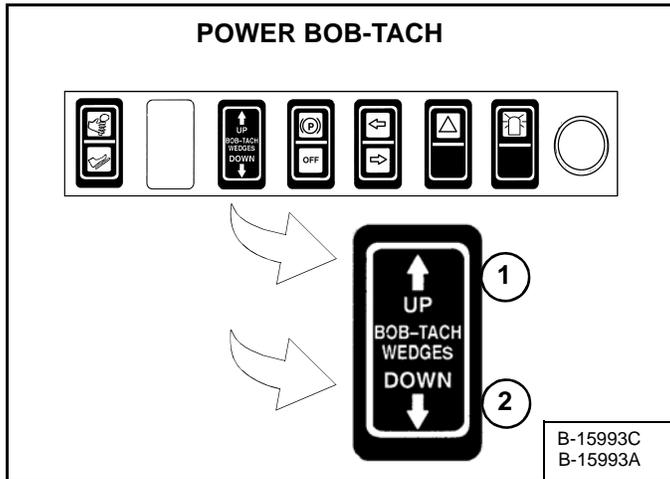
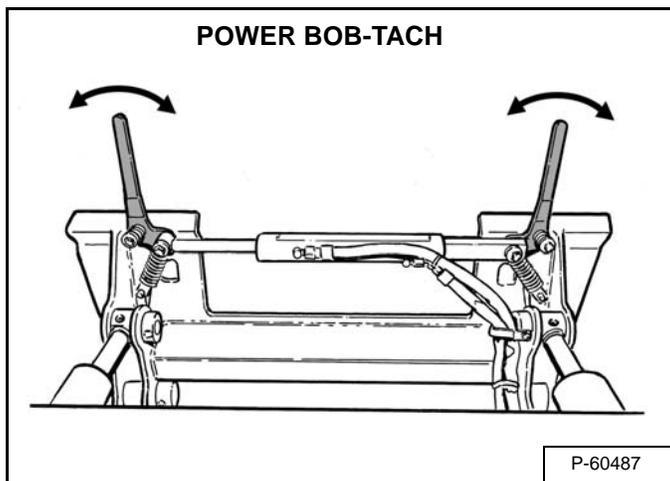


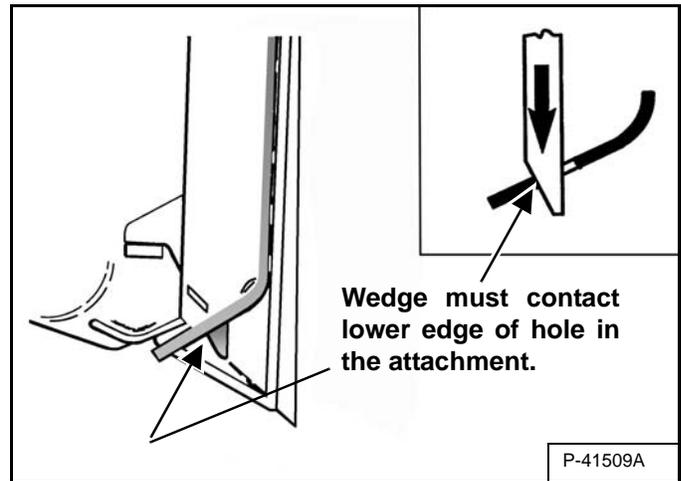
Figure 10-20-5



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].

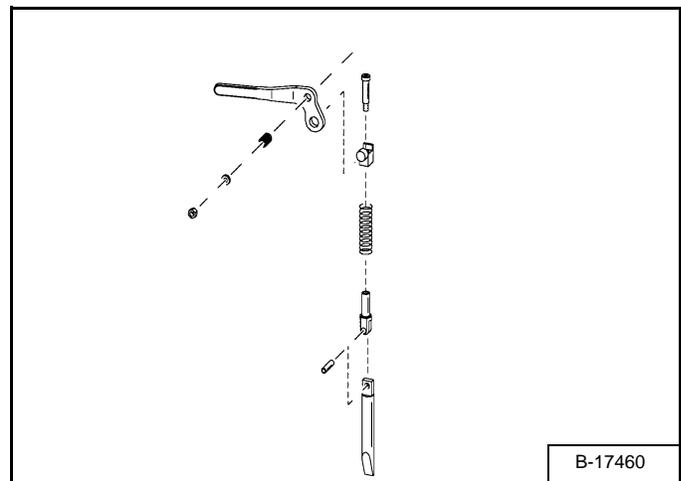
Figure 10-20-6



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 machine's Operation & Maintenance Manual for correct lubrication procedures.)

## LUBRICATING THE ATTACHMENT

### Lubrication Locations

*Optional Wheel Kit*

# 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.

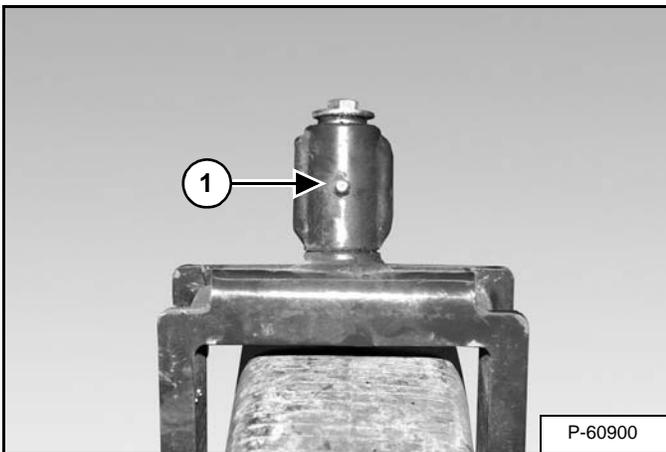
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Lubricate the following grease fittings every 8-10 hours.

**Figure 10-30-1**



**Figure 10-30-2**



Grease the two locations (Item 1) [Figure 10-30-1] & [Figure 10-30-2] on the caster assembly.



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## BRUSH

### Adjusting The Brush

The bristles will wear. Check adjustment regularly.

**NOTE:** Only the 84 inch sweeper needs to be adjusted. The 36, 44, 48 and 54 inch sweepers should always be operated with the bristles in the down position.

As the bristles wear use the following procedure to lower broom:

## WARNING

### AVOID INJURY OR DEATH

- Keep all bystanders 10 feet (3 m) away from equipment when operating.
- Do Not Operate with damaged or missing shields or parts.
- Stop the engine before cleaning or servicing.
- Contact with moving parts can cause injury or death.

W-2491-0204

## WARNING

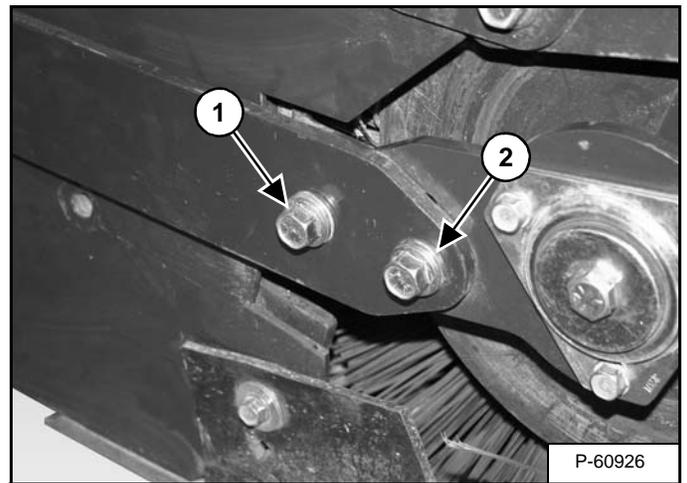
### AVOID INJURY OR DEATH

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.

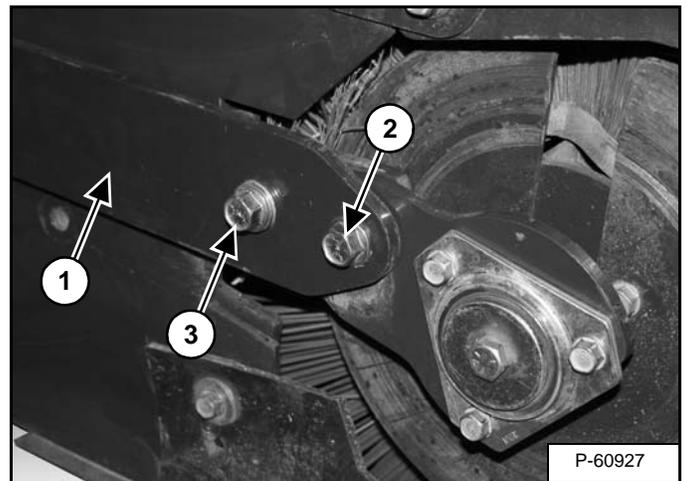
W-2019-0907

Figure 10-40-1



Loosen bolt (Item 1), then remove bolt (Item 2) [Figure 10-40-1].

Figure 10-40-2



Raise the arm (Item 1), then install bolt (Item 2) and nut. Tighten bolts (Items 2 & 3) [Figure 10-40-2] to 65-70 ft.-lb. (88-95 N•m) torque.

Repeat procedure on opposite side of the sweeper.



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## HYDRAULIC SYSTEM

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## HYDRAULIC SYSTEM



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## CONTROL VALVE (GUTTER BRUSH)

### Removal And Installation

# 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

# IMPORTANT

Contain and dispose of any oil leakage in an environmentally safe manner.

I-2066-0395

# ! WARNING

## 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

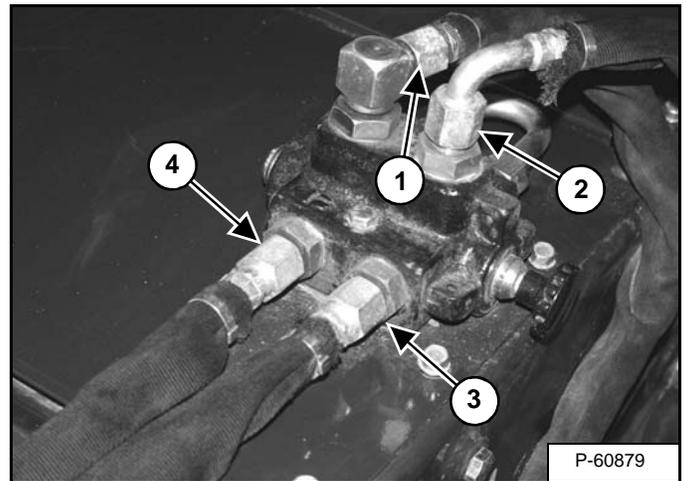
# ! WARNING

## AVOID INJURY OR DEATH

- Keep all bystanders 10 feet (3 m) away from equipment when operating.
- Do Not Operate with damaged or missing shields or parts.
- Stop the engine before cleaning or servicing.
- Contact with moving parts can cause injury or death.

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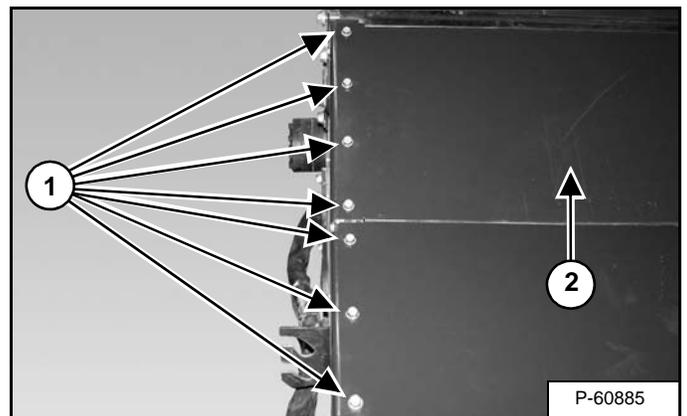
Figure 20-10-1



Remove hoses (Item 1 - 4) [Figure 20-10-1].

**Installation:** Hose (Item 1) is the female quick coupler, hose (Item 2) is connected to the sweeper motor, hose (Item 3) is connected to the left fitting of the gutter brush motor and hose (Item 4) [Figure 20-10-1] is connected to the right fitting of the gutter brush motor.

Figure 20-10-2

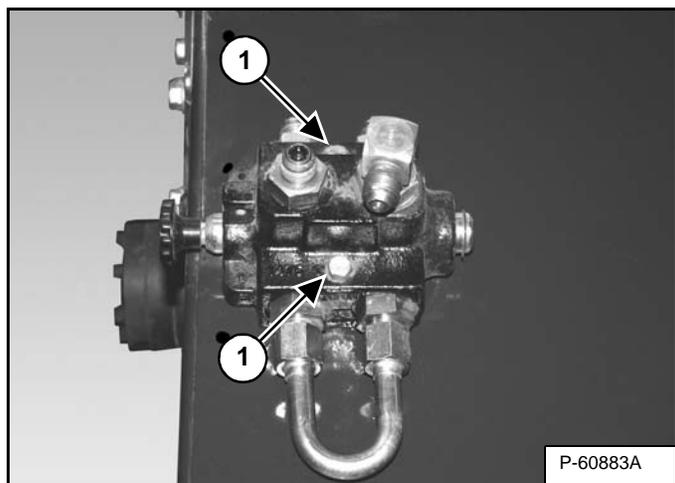


Remove bolts (Item 1) from both sides of the sweeper. Remove the center cover (Item 2) [Figure 20-10-2].

## CONTROL VALVE (GUTTER BRUSH) (CONT'D)

### Removal And Installation (Cont'd)

Figure 20-10-3



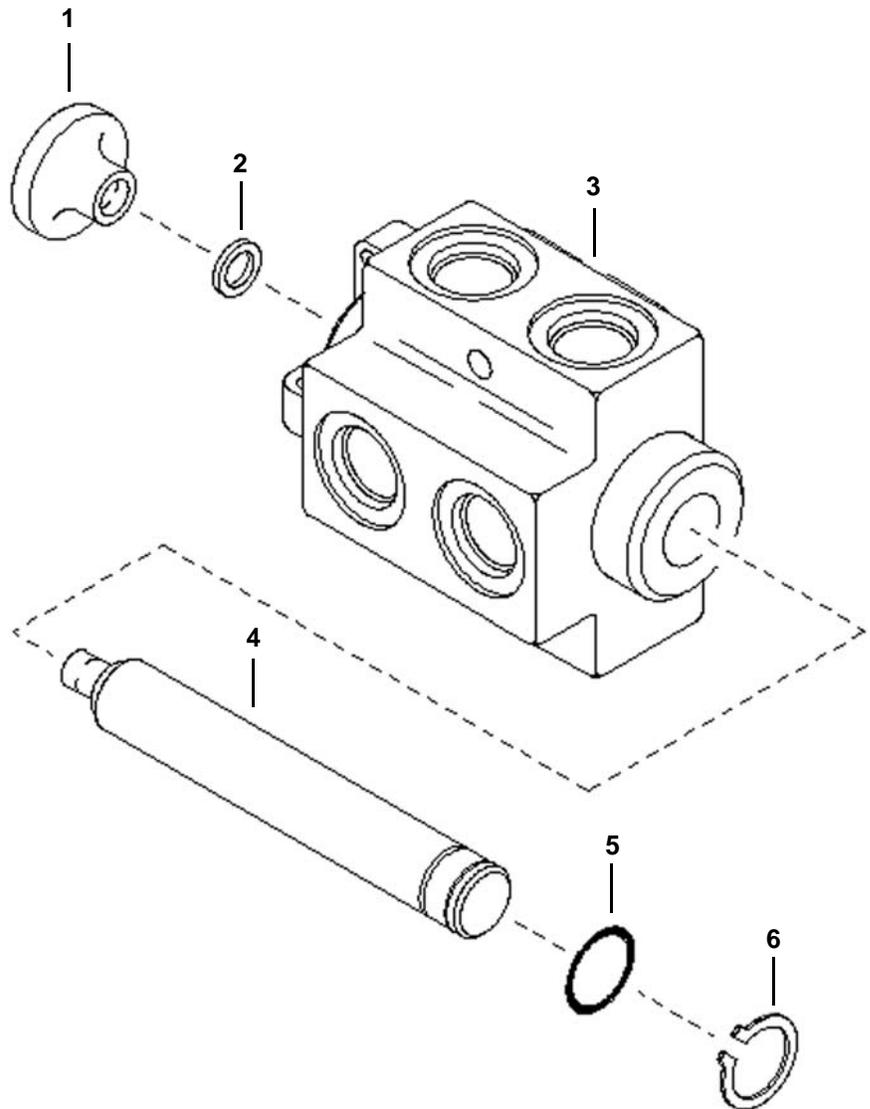
Remove the two bolts (Item 1) [Figure 20-10-3] and nuts.

Remove the control valve [Figure 20-10-3].

## CONTROL VALVE (GUTTER BRUSH) (CONT'D)

### Parts Identification

1. Handle
2. Washer
3. Housing
4. Spool
5. O-ring
6. Snap Ring



TS-01151A



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## HYDRAULIC MOTOR

### Removal and Installation (Sweeper)

# 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

# IMPORTANT

Contain and dispose of any oil leakage in an environmentally safe manner.

I-2066-0395

# ! WARNING

## AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

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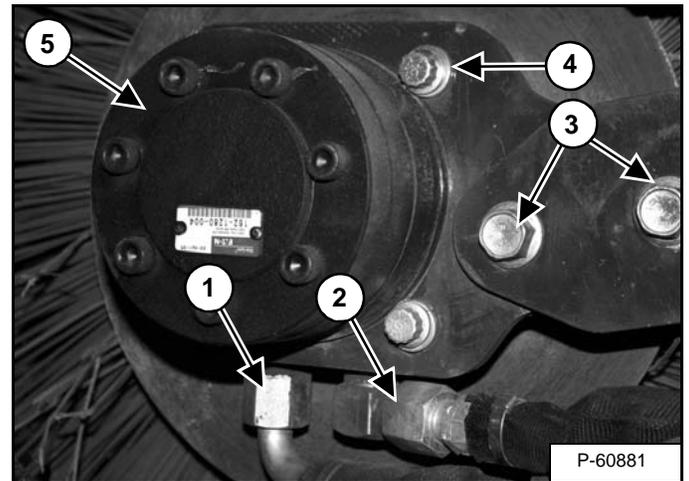
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- Stop the engine before cleaning or servicing.
- Contact with moving parts can cause injury or death.

W-2491-0204

Figure 20-20-1



Remove the hydraulic hoses (Items 1 & 2) [Figure 20-20-1].

**Installation:** Hose (Item 1) is the male quick coupler hose and hose (Item 2) [Figure 20-20-1] is the female quick coupler hose.

**Gutter Brush Installation:** Hose (Item 2) [Figure 20-20-1] is connected to the top left fitting (straight fitting) on the control valve.

Remove bolts (Item 3) [Figure 20-20-1] and nut.

**Installation:** Tighten bolt to 65-70 ft.-lb. (88-95 N•m) torque.

Remove the four bolts (Item 4), then remove the motor (Item 5) [Figure 20-20-1].

**Installation:** Tighten bolt to 65-70 ft.-lb. (88-95 N•m) torque.

# HYDRAULIC MOTOR (CONT'D)

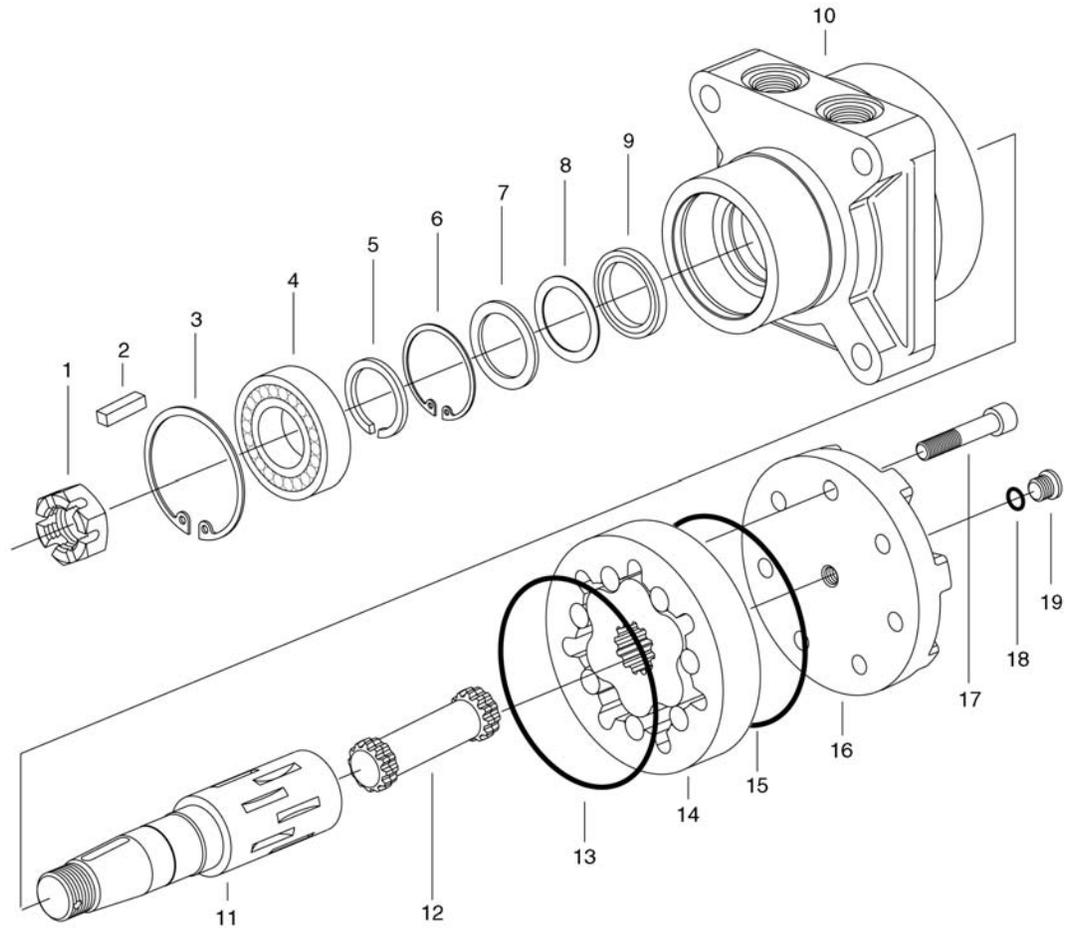
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## Parts Identification (Sweeper)

[service-repair-workshop-manual/](https://www.arepairmanual.com/downloads/2008-bobcat-sweeper-service-repair-workshop-manual/)

1. Hex Nut
2. Key
3. Retaining Ring
4. Ball Bearing
5. Retaining Ring
6. Retaining Ring
7. Washer
8. Backup Washer
9. Pressure Seal
10. Housing
11. Output Shaft
12. Drive
13. Seal
14. Geroler
15. Seal
16. End Cap
17. Cap Screw
18. O-ring
19. Plug



P-70198

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