



# Bobcat®

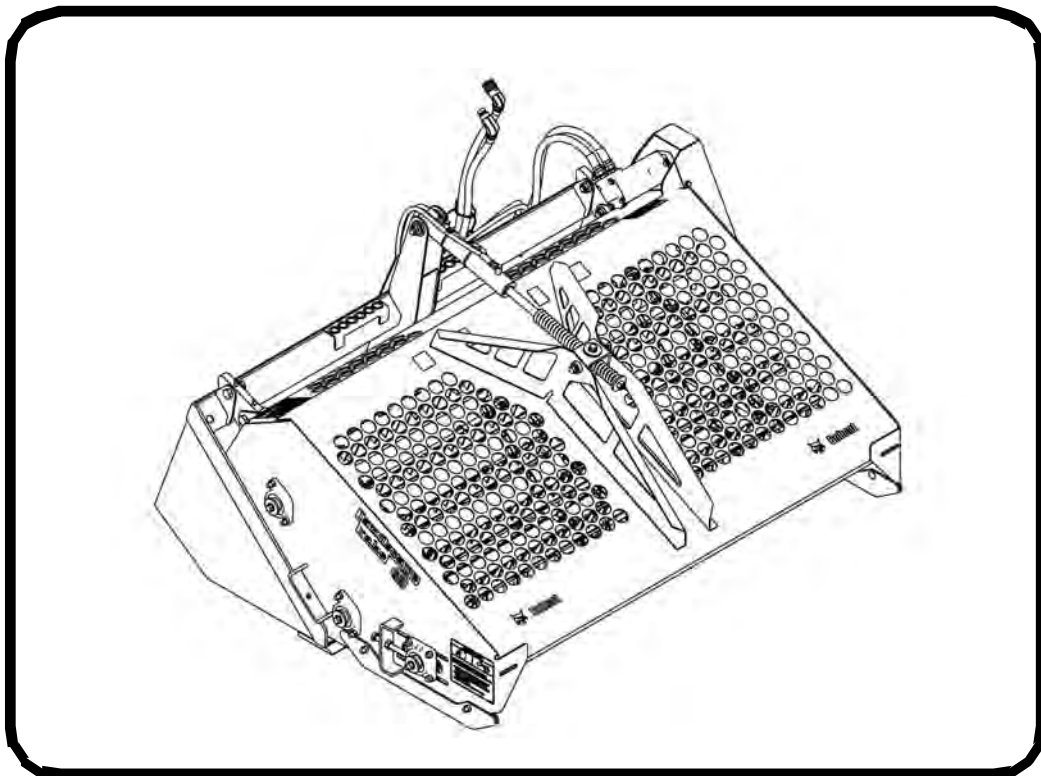
---

## Service Manual Landscape Rake

---

(4A) - S/N 440000101 & Above  
(4A3) S/N 450000101 & Above  
(5A) - S/N 460000101 & Above  
(5A3) - S/N 460600101 & Above  
(LR 5B) - S/N 910700101 & Above

(5B3) - S/N 062700101 & Above  
(6A) - S/N 470000101 & Above  
(6A3) - S/N 470600101 & Above  
(LR 6B) - S/N 063000101 & Above  
(6B3) - S/N 06250101 & Above



CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below

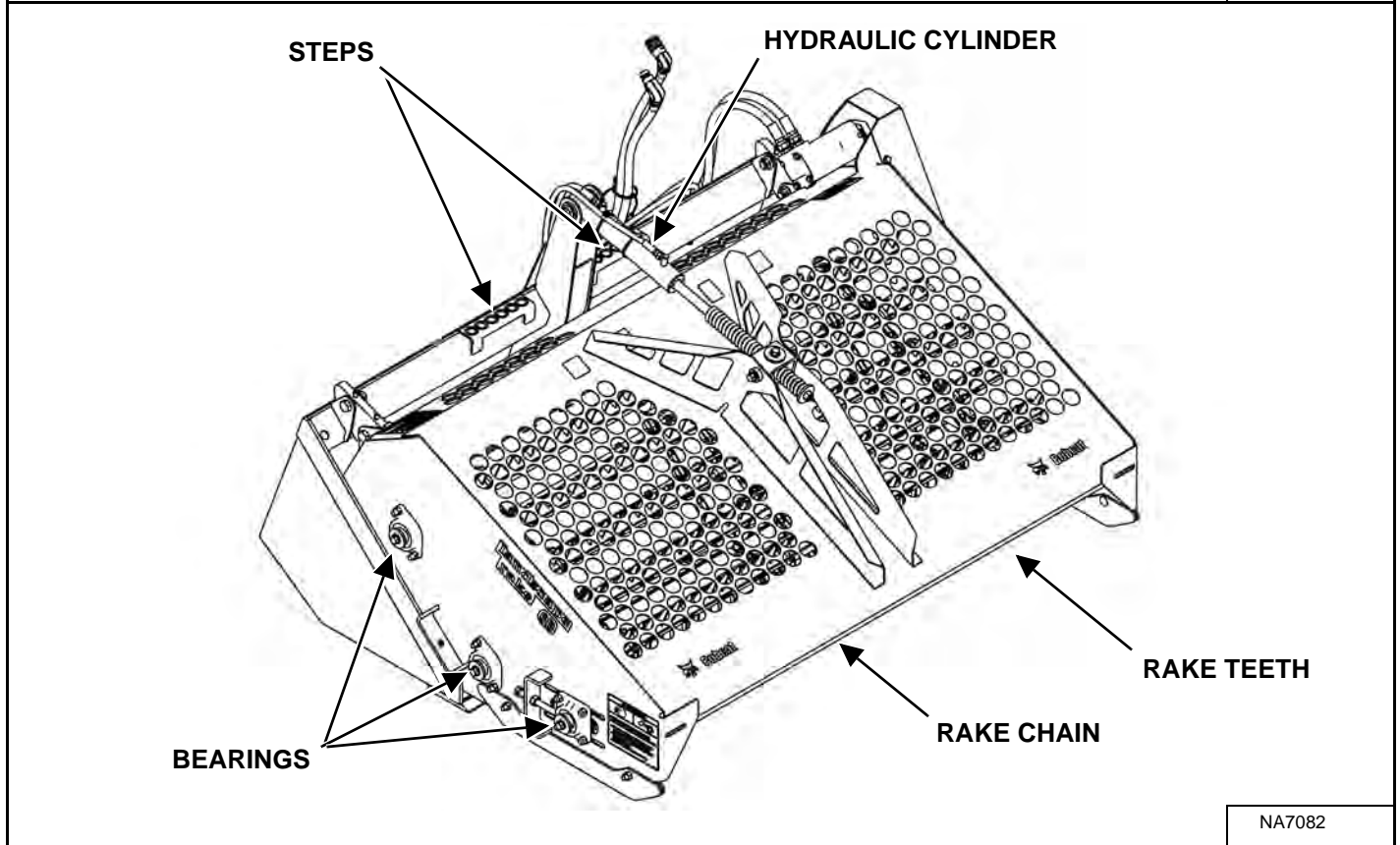
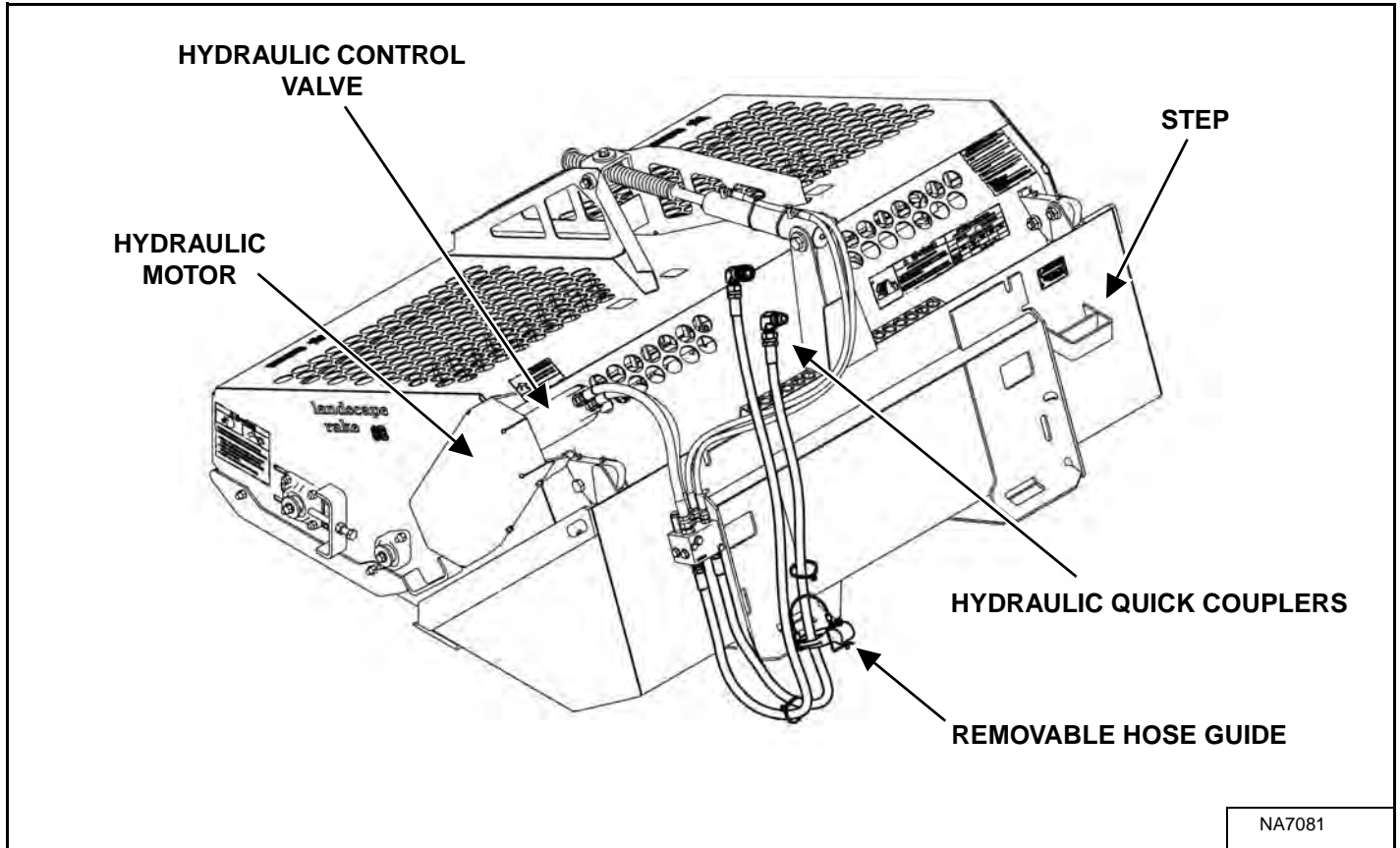


- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

ATTACHMENT IDENTIFICATION (CONT'D)

B Series



## DAILY INSPECTION (CONT'D)

### Bob-Tach (Cont'd)

Power 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 10-30-4

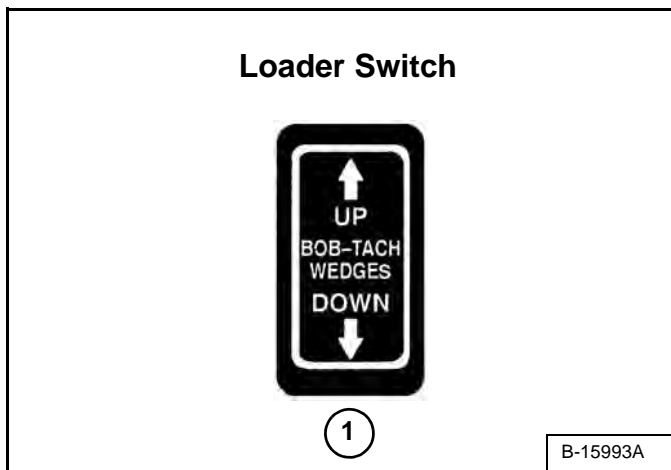


Figure 10-30-5

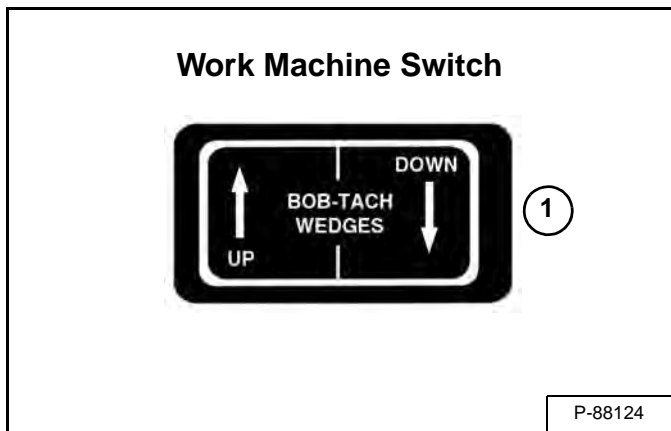
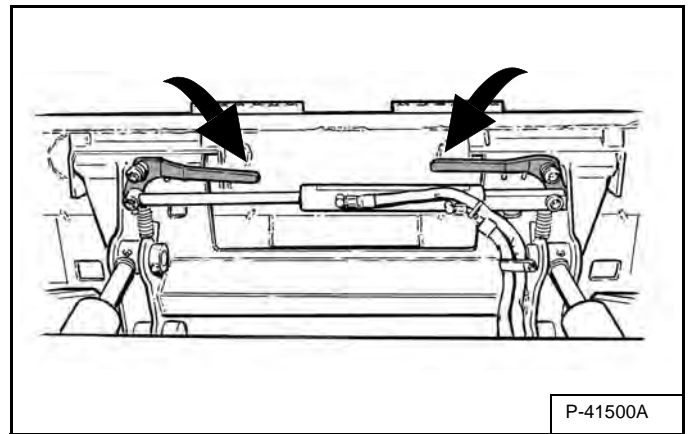
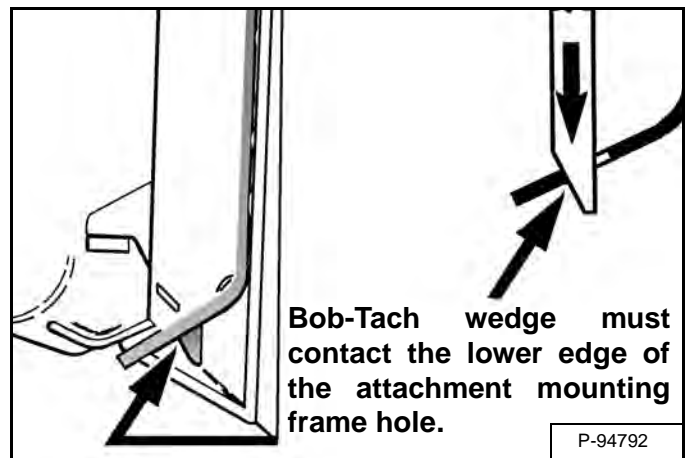


Figure 10-30-6



Push (Item 1) [Figure 10-30-4] and [Figure 10-30-5] and hold the BOB-TACH “WEDGES DOWN” switch until the levers are fully engaged in the locked position [Figure 10-30-6] (wedges fully extended through the attachment mounting frame holes).

Figure 10-30-7



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-30-7].

**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.

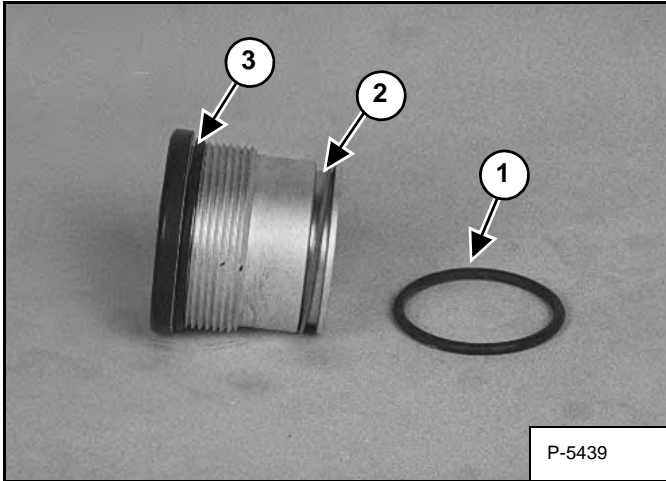
Inspect the mounting frame on the attachment. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the machine's Operation & Maintenance Manual for the correct procedure.)

## HYDRAULIC CYLINDER (CONT'D)

### Disassembly And Assembly (Cont'd)

Figure 20-10-8



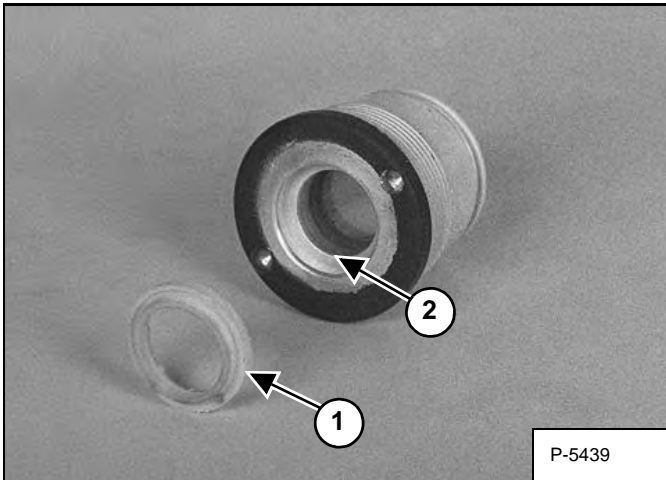
Remove the O-ring (Item 1) and back-up ring (Item 2) [Figure 20-10-8] from the head.

The back-up ring must be located toward the spanner wrench holes in the head.

Remove the O-ring (Item 3) [Figure 20-10-8] (located against the outside shoulder of the head).

Check the condition of the head, replace if needed.

Figure 20-10-9



Remove the rod wiper (Item 1) and the inner seal (Item 2) [Figure 20-10-9].

The lip of the rod wiper must face toward the outside of the head.

Assemble the cylinder in the reverse order.

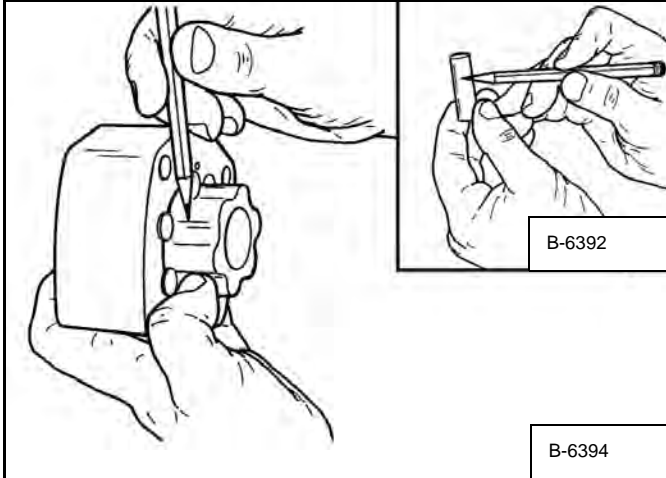
## HYDRAULIC MOTOR (CONT'D)

### Inspection

Before the motor is assembled, check the following items:

Clean all parts in clean solvent and use air pressure to dry them. Do not use cloth or paper because small pieces of material can get into the system and cause damage.

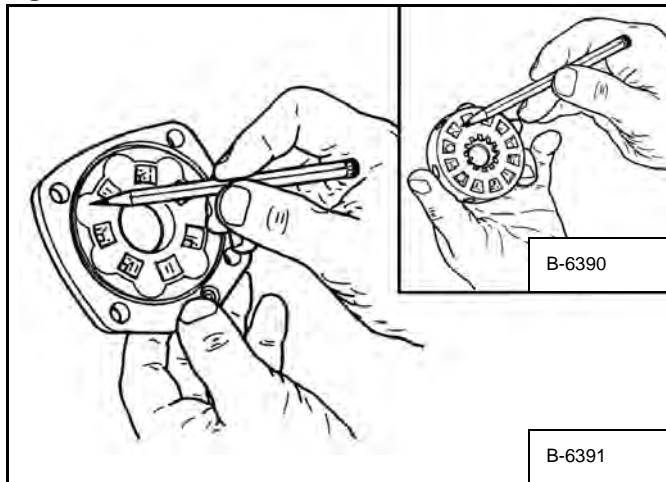
Figure 20-20-24



1. Check the Geroler<sup>®</sup> roller and rotor for wear and scratches [Figure 20-20-24].

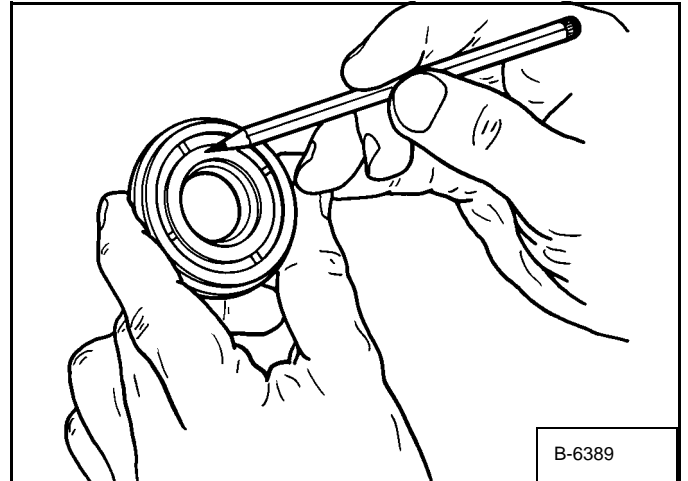
**NOTE: Put all the rollers back in their original position.**

Figure 20-20-25



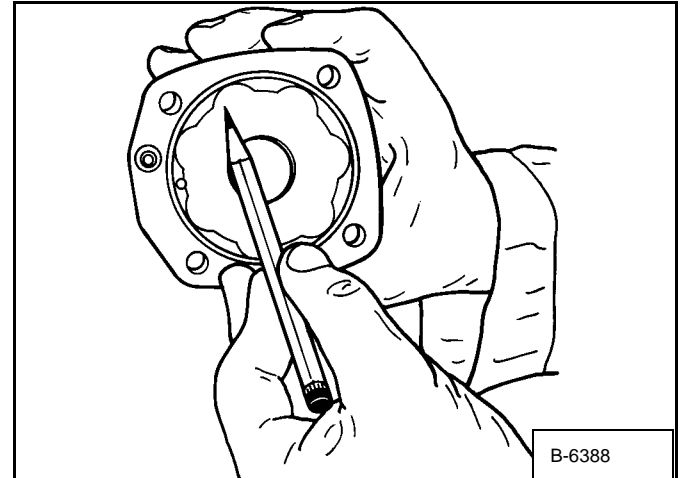
2. Check the valve plate for scratches [Figure 20-20-25].

Figure 20-20-26



3. Check the balance plate for scratches [Figure 20-20-26].
4. Check the valve drive and main drive for wear.

Figure 20-20-27



5. Check the end plate surface for scratches [Figure 20-20-27].

## LANDSCAPE RAKE CHAIN (B SERIES)

### Removal And Installation

**NOTE:** The chain removal procedure was done using an over head hoist and the Landscape Rake positioned upside down.

Remove the shield from the drive motor. (See Adjustment on Page 30-20-7.)

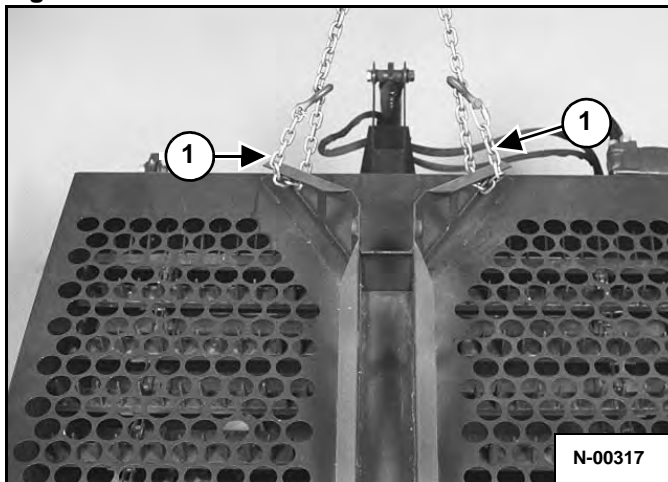
Remove the drive motor chain. (See Replacing Chain Bars (Welded) on Page 30-20-4.) or (See Replacing Chain Bars (Bolt On) on Page 30-20-5.)

Remove the hydraulic hoses from the motor. (See Removal And Installation on Page 20-10-2.)

Remove the cylinder. (See Removal And Installation on Page 20-10-2.)

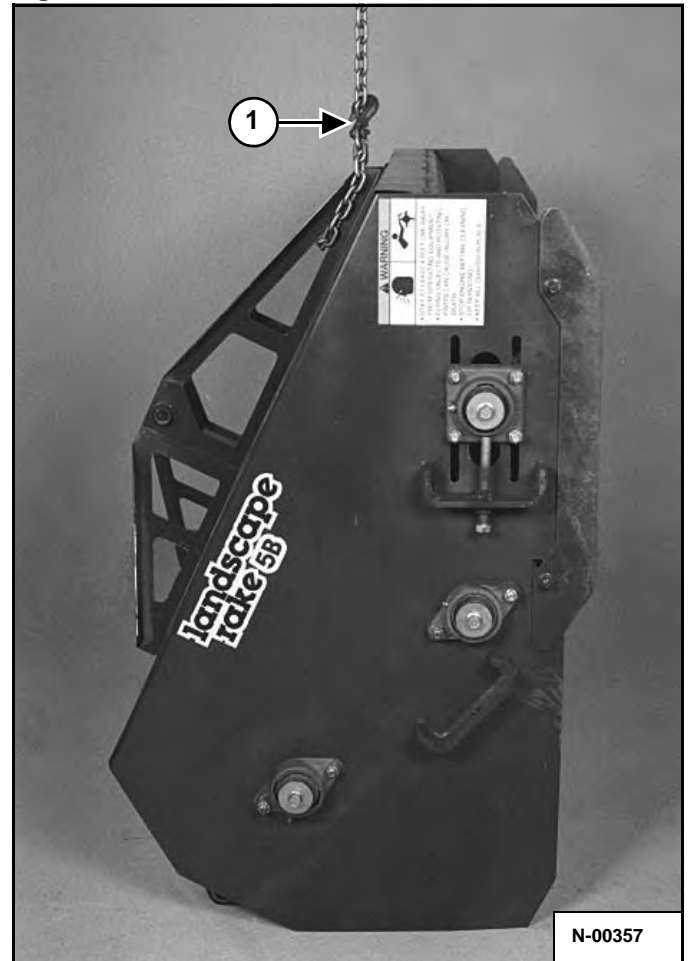
Remove the hinges. (See Removal And Installation on Page 30-60-1.)

**Figure 30-20-1**



Install chains (Item 1) [Figure 30-20-1] in the slots of the frame, and use a hoist to separate the rake frame from the bucket.

**Figure 30-20-2**



By repositioning the chains in the slots (Item 1) [Figure 30-20-2] toward the front of the rake frame, a hoist can be used to stand the rake frame on its back edge as shown.

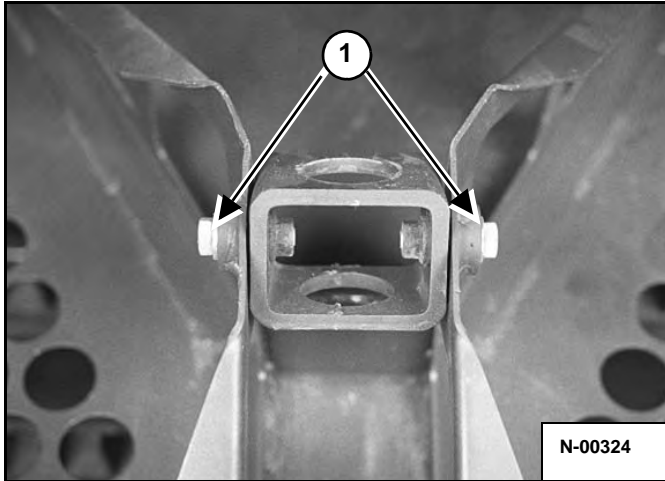
Continue to pull the rake frame into the upside down position. The rake frame will be stable in this position for chain removal.

Position the master links to the top. Release the tension fully from the rake chain.

## ROD GUIDE HOUSING (B SERIES)

### Removal And Installation

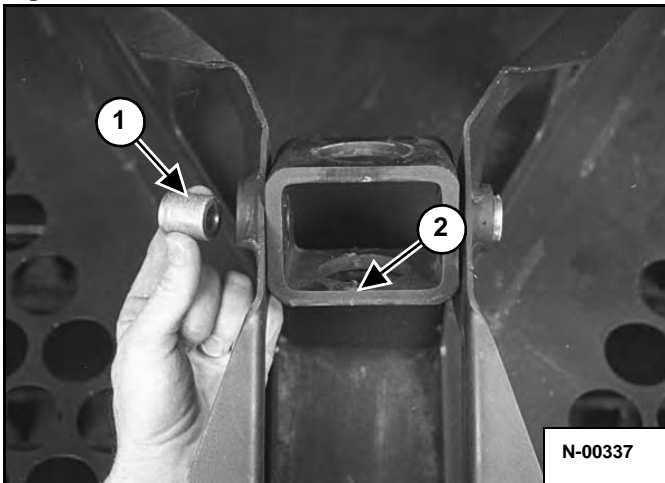
Figure 30-40-1



Remove the bolts (Item 1) [Figure 30-40-1] from the pivot bushings.

**Installation:** Use anti-seize on the bolts and nuts during assembly.

Figure 30-40-2



Remove the pivot bushings (Item 1) [Figure 30-40-2] from the frame.

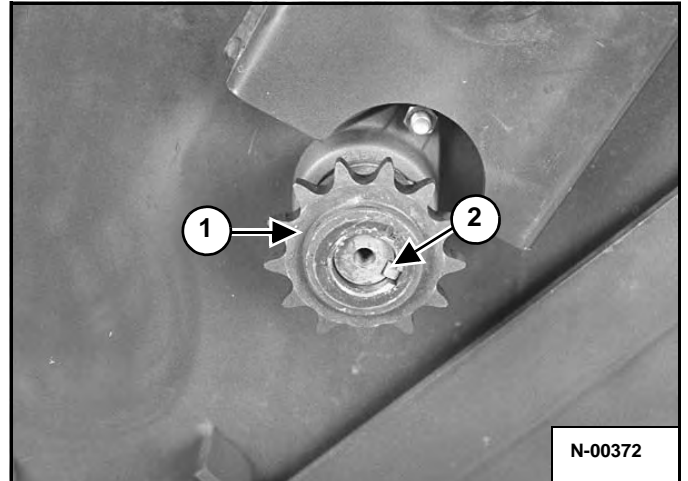
Remove the housing (Item 2) [Figure 30-40-2].

**Installation:** Use anti-seize on the pivot bushings during assembly.

Remove the bolt (Item 1) [Figure 30-40-1] and washer.

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

Figure 30-40-3



Remove the drive sprocket (Item 1) and key (Item 2) [Figure 30-40-3].

**Installation:** Install the key and drive sprocket.

## SPECIFICATIONS

|   |           |
|---|-----------|
| SPECIFICATIONS (A SERIES) .....                     | SPEC-10-1 |
| A Series .....                                      | SPEC-10-1 |
| SPECIFICATIONS (B SERIES) .....                     | SPEC-11-1 |
| B Series .....                                      | SPEC-11-1 |
| HYDRAULIC SCHEMATIC (A SERIES) .....                | SPEC-20-1 |
| A Series .....                                      | SPEC-20-1 |
| HYDRAULIC SCHEMATIC (B SERIES) .....                | SPEC-21-1 |
| B Series .....                                      | SPEC-21-1 |
| TORQUE SPECIFICATIONS FOR BOLTS .....               | SPEC-30-1 |
| Torque For General SAE Bolts .....                  | SPEC-30-1 |
| Torque For General Metric Bolts .....               | SPEC-30-2 |
| HYDRAULIC CONNECTION SPECIFICATIONS .....           | SPEC-40-1 |
| O-ring Face Seal Connection .....                   | SPEC-40-1 |
| Straight Thread O-ring Fitting .....                | SPEC-40-1 |
| Tubelines And Hoses .....                           | SPEC-40-1 |
| Flare Fitting .....                                 | SPEC-40-2 |
| Port Seal Fitting .....                             | SPEC-40-2 |
| GLOSSARY OF HYDRAULIC SYMBOLS FOR ATTACHMENTS ..... | SPEC-50-1 |

## TORQUE SPECIFICATIONS FOR BOLTS

### Torque For General SAE Bolts

The following table shows standard torque specifications for bolts with zinc phosphate coating. Bolts purchased from Bobcat Company that have zinc phosphate coating are specified by the letter H following the part number.

|                | Thread Size                  | SAE Grade 5                  | SAE Grade 8                  |
|----------------|------------------------------|------------------------------|------------------------------|
| N•m<br>(in-lb) | 0.250                        | 9,0 - 10,2<br>(80 - 90)      | 12,4 - 13,6<br>(110 - 120)   |
|                | 0.3125                       | 20,3 - 22,6<br>(180 - 200)   | 24,2 - 27,1<br>(215 - 240)   |
| N•m<br>(ft-lb) | 0.375                        | 34 - 38<br>(25 - 28)         | 47 - 54<br>(35 - 40)         |
|                | 0.4375                       | 54 - 61<br>(40 - 45)         | 81 - 88<br>(60 - 65)         |
|                | 0.500                        | 88 - 95<br>(65 - 70)         | 122 - 136<br>(90 - 100)      |
|                | 0.5625                       | 122 - 136<br>(90 - 100)      | 170 - 190<br>(125 - 140)     |
|                | 0.625                        | 170 - 190<br>(125 - 140)     | 240 - 260<br>(175 - 190)     |
|                | 0.750                        | 300 - 330<br>(220 - 245)     | 410 - 450<br>(300 - 330)     |
|                | 0.875                        | 450 - 490<br>(330 - 360)     | 645 - 710<br>(475 - 525)     |
|                | 1.000                        | 645 - 710<br>(475 - 525)     | 985 - 1085<br>(725 - 800)    |
|                | 1.125                        | 880 - 975<br>(650 - 720)     | 1425 - 1600<br>(1050 - 1175) |
|                | 1.250                        | 1200 - 1360<br>(900 - 1000)  | 2000 - 2200<br>(1475 - 1625) |
|                | 1.375                        | 1630 - 1830<br>(1200 - 1350) | 2720 - 2980<br>(2000 - 2200) |
|                | 1.500                        | 2040 - 2240<br>(1500 - 1650) | 3530 - 3870<br>(2600 - 2850) |
|                | 1.625                        | 2720 - 2980<br>(2000 - 2800) | 4680 - 5150<br>(3450 - 3800) |
|                | 1.750                        | 3390 - 3730<br>(2500 - 2750) | 5830 - 6500<br>(4300 - 4800) |
|                | 1.875                        | 4270 - 4750<br>(3150 - 3500) | 7450 - 8300<br>(5500 - 6100) |
| 2.000          | 5150 - 5700<br>(3800 - 4200) | 8800 - 9800<br>(6500 - 7200) |                              |

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL