



Bobcat®

Service Manual



Front Compact Tractor Snowblower

(FSB49) S/N B59500101 & Above

(FSB62) S/N B59600101 & Above



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SAFETY AND MAINTENANCE

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REGULAR MAINTENANCE ITEMS

Auger Gearbox Fluid

! 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.

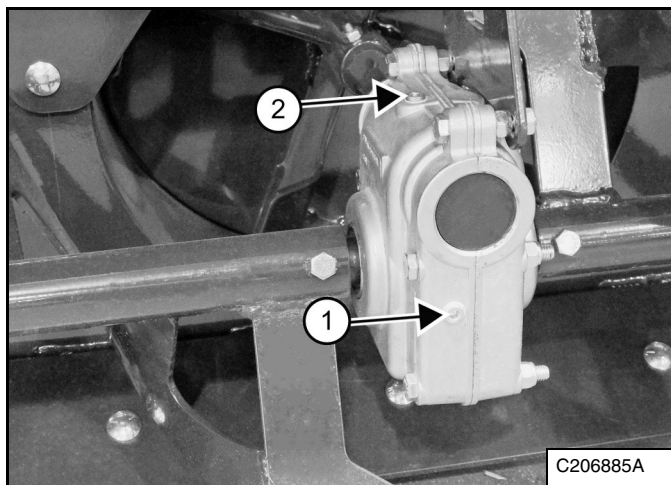
W-2019-0907

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

Figure 10-50-1



Check for proper oil level in the auger gearbox.

1. Remove the fluid level plug (Item 1) [Figure 10-50-1]. The oil should flow from the check port.
2. If the oil does not flow out of the check port, remove breather / fill plug (Item 2) [Figure 10-50-1].
3. Add oil (EP80W-90 Gear Lube) until the oil begins to flow out of the check port.
4. Reinstall fluid level plug and breather / fill plug.

Skid Shoe

! WARNING

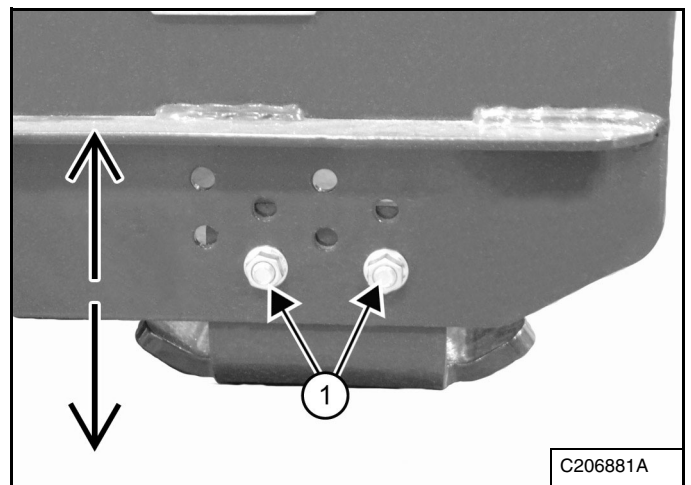
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Figure 10-50-2



1. Inspect the skid shoes and welds for cracks, damage and / or excessive wear. Repair or replace if any cracks, damage or excessive wear is visible. Tighten or replace any loose or missing bolts or nuts (Item 1) [Figure 10-50-2].
2. To remove skid shoe (Item 1), loosen and remove the bolts and nuts (Item 2) [Figure 10-50-2] and remove the skid shoe.

Installation: Realign holes, tighten bolts to 88 - 95 N•m (65 - 70 ft-lb) of torque.

ROTATOR MOTOR

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.

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! WARNING

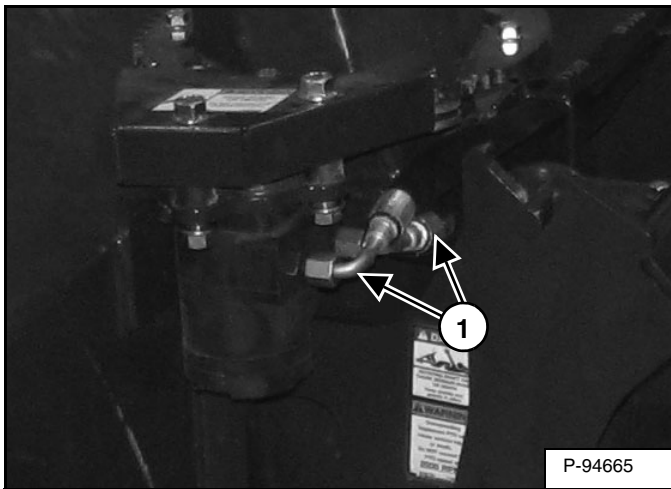
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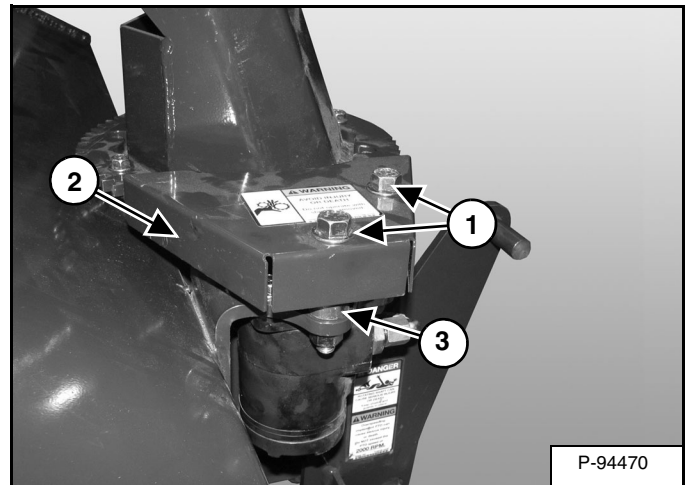
Figure 20-10-1



Mark location and remove hydraulic hoses (Item 1) [Figure 20-10-1].

Installation: Install and tighten hydraulic hoses. (See Flare Fitting on Page SPEC-50-2.)

Figure 20-10-2



1. Remove bolts (Item 1) [Figure 20-10-2].
2. Remove gear guard (Item 2) [Figure 20-10-2].
3. Remove gear guard spacers (Item 3) [Figure 20-10-2].

Installation: Position guard. Install spacers, bolts and nuts. Tighten bolts. Ensure the spacers do not interfere with gear operation.

! WARNING

AVOID INJURY OR DEATH

Never operate with covers or guards removed.

W-2121-0788

MAINFRAME

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DRIVE ASSEMBLY

Removal And Installation

Removal

! WARNING

AVOID INJURY OR DEATH

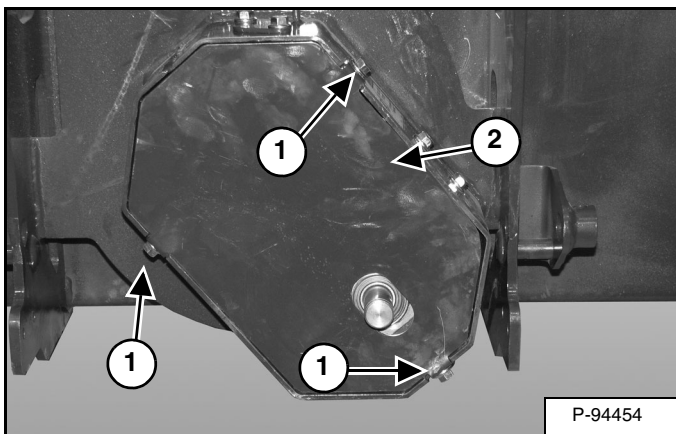
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Remove the PTO driveline. (See PTO DRIVELINE on Page 30-40-1.)

Figure 30-50-1



1. Remove the bolts (Item 1) [Figure 30-50-1].
2. Remove the drive cover (Item 2) [Figure 30-50-1].

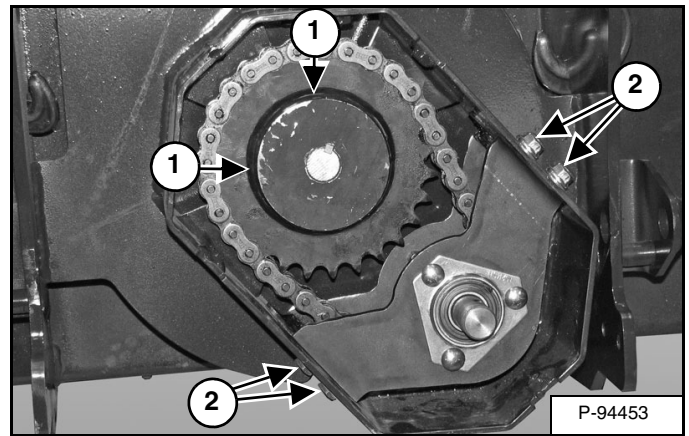
! WARNING

AVOID INJURY OR DEATH

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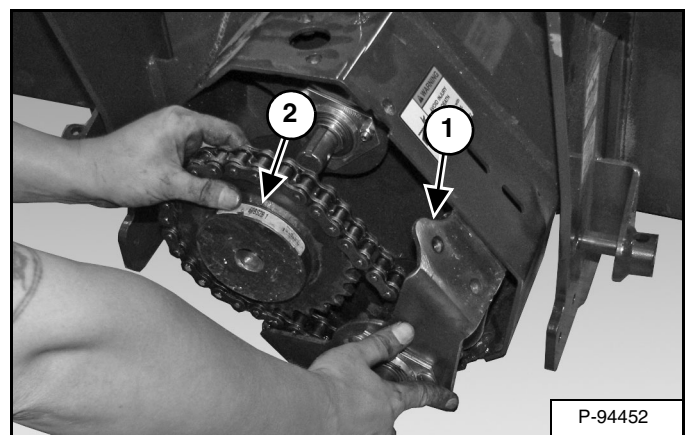
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Figure 30-50-2



1. Loosen the set screws (Item 1) [Figure 30-50-2]. Use the access hole in the drive housing for easier access to set screws.
2. Remove the four input housing mounting bolts (Item 2) [Figure 30-50-2].

Figure 30-50-3

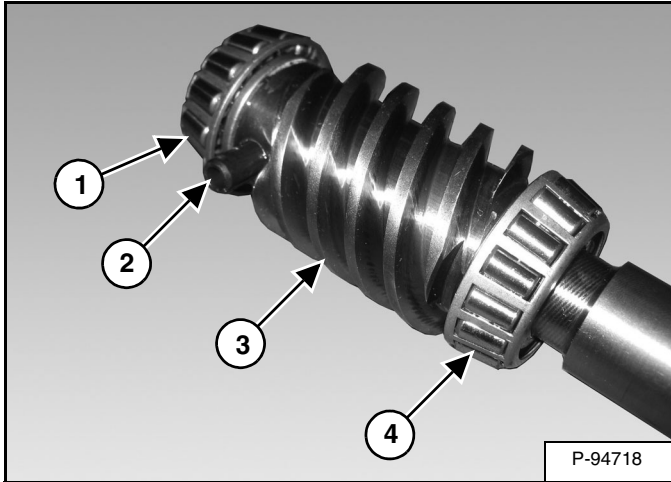


Remove the input housing (Item 1) and the gearbox drive sprocket (Item 2) [Figure 30-50-3].

AUGER GEARBOX (CON'T)

Disassembly (Cont'd)

Figure 30-60-11

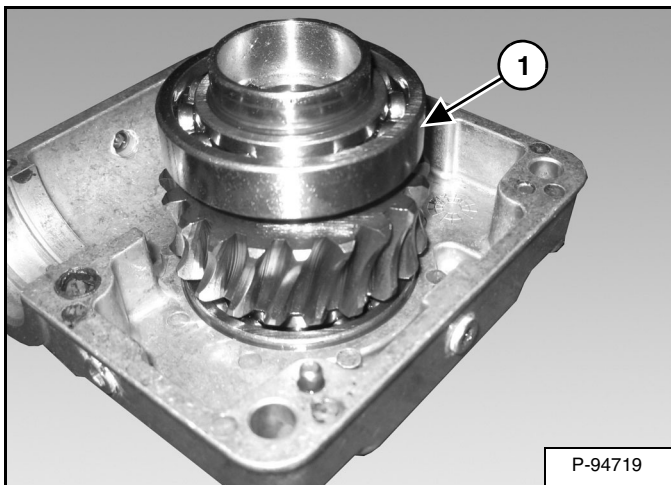


1. Remove bearing (Item 1) [Figure 30-60-11].
2. Remove spring pin (Item 2) [Figure 30-60-11]. (Spring pin shown partially removed.)
3. Remove worm gear (Item 3) [Figure 30-60-11].
4. Remove bearing (Item 4) [Figure 30-60-11].

NOTE: If the bearings or gear must be replaced, use extreme care to prevent any damage to the shaft when using press equipment to remove and install bearings or gear.

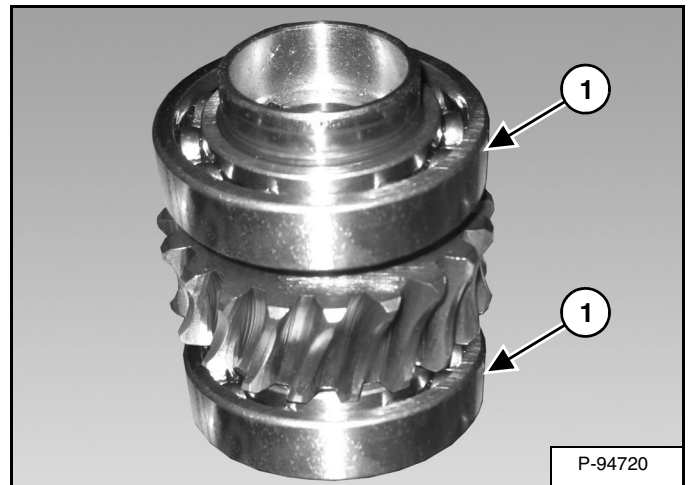
NOTE: If the bearings or gear will be reused, Do Not wash with an abrasive cleaner or solvent.

Figure 30-60-12



Remove helical gear assembly (Item 1) [Figure 30-60-12] from housing.

Figure 30-60-13

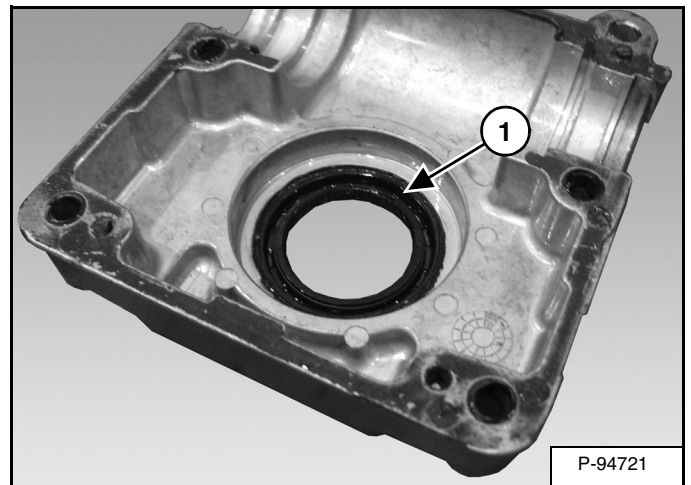


Remove the bearings (Item 1) [Figure 30-60-13].

NOTE: If the bearings must be replaced, use extreme care to prevent any damage to the gear when using press equipment to remove and install bearings.

NOTE: If the bearings or gear will be reused, Do Not wash with an abrasive cleaner or solvent.

Figure 30-60-14



Remove the oil seal (Item 1) [Figure 30-60-14]. Repeat for other half of housing.

NOTE: Clean the housing mating surface prior to assembly.

DISCHARGE CHUTE

Removal And Installation

WARNING

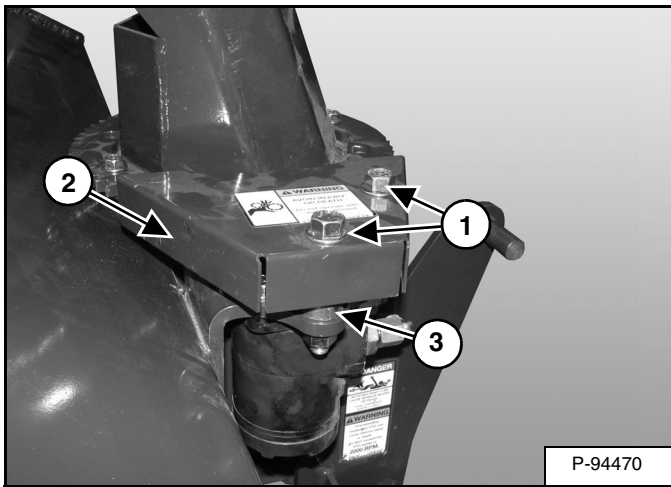
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W-2019-0907

Figure 30-90-1



Remove bolts (Item 1), cover (Item 2) and spacers (Item 3) [Figure 30-90-1].

Installation: Install the spacers. Position cover on spacers, install and tighten bolts.

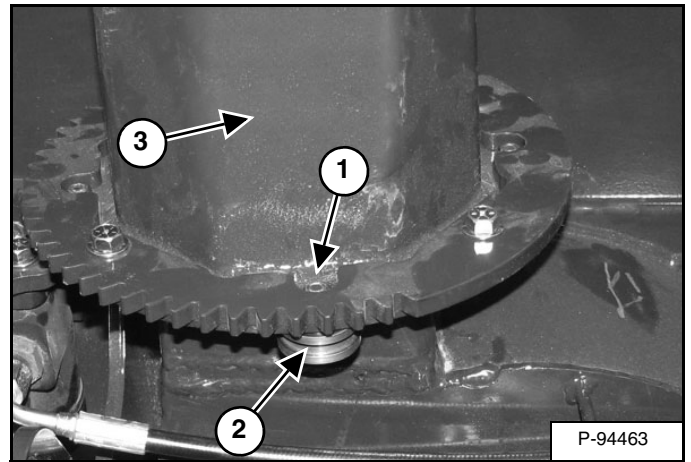
WARNING

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W-2121-0788

Figure 30-90-2



Remove bolt and nut (Item 1), remove roller and bushing (Item 2). Remove the chute (Item 3) [Figure 30-90-2].

Installation: Install the chute. Position roller and bushing, install and tighten bolt and nut. Adjust the rotator motor to chute teeth. (See ROTATOR MOTOR on Page 20-10-1.)

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

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