

Product: 2006 Bobcat 72 Inch Seeder Service Repair Workshop Manual(72 In - S/N 018000101 & Above)

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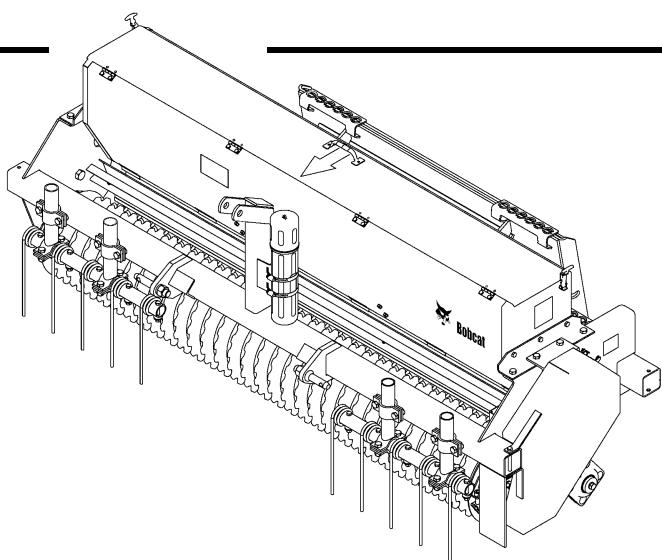
Bobcat®

Seeder

72 Inch

Service Manual

(72 In) S/N 018000101 & Above



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**SAFETY AND
MAINTENANCE**

**MAIN
FRAME**

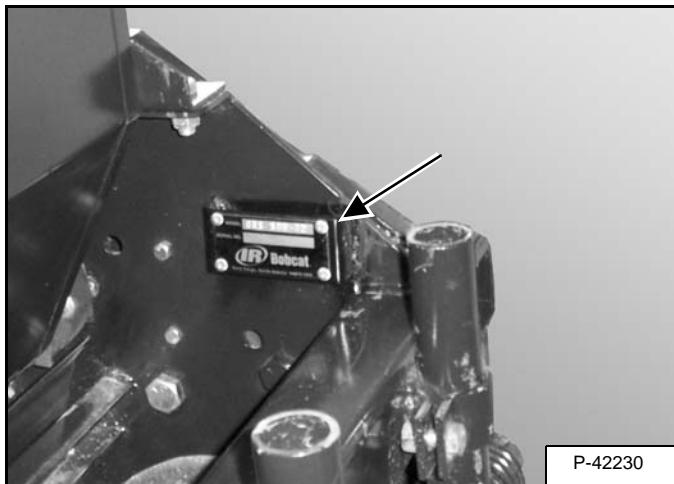
**SPECIFICATIONS
AND
SCHEMATICS**



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SERIAL NUMBER LOCATION

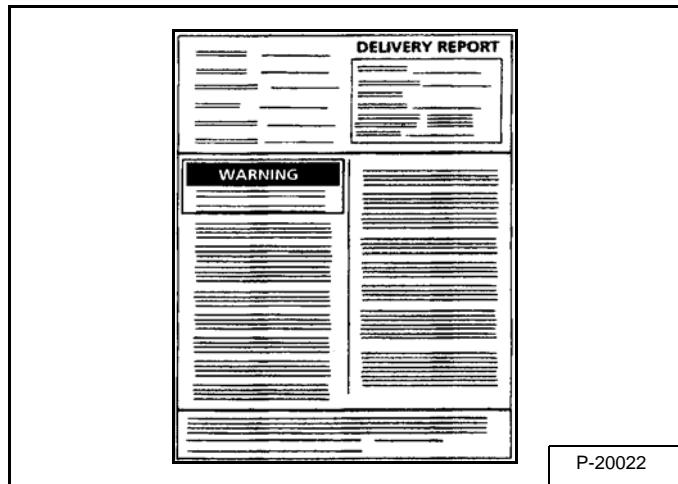
Figure 1



Always use the serial number of the Seeder 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].

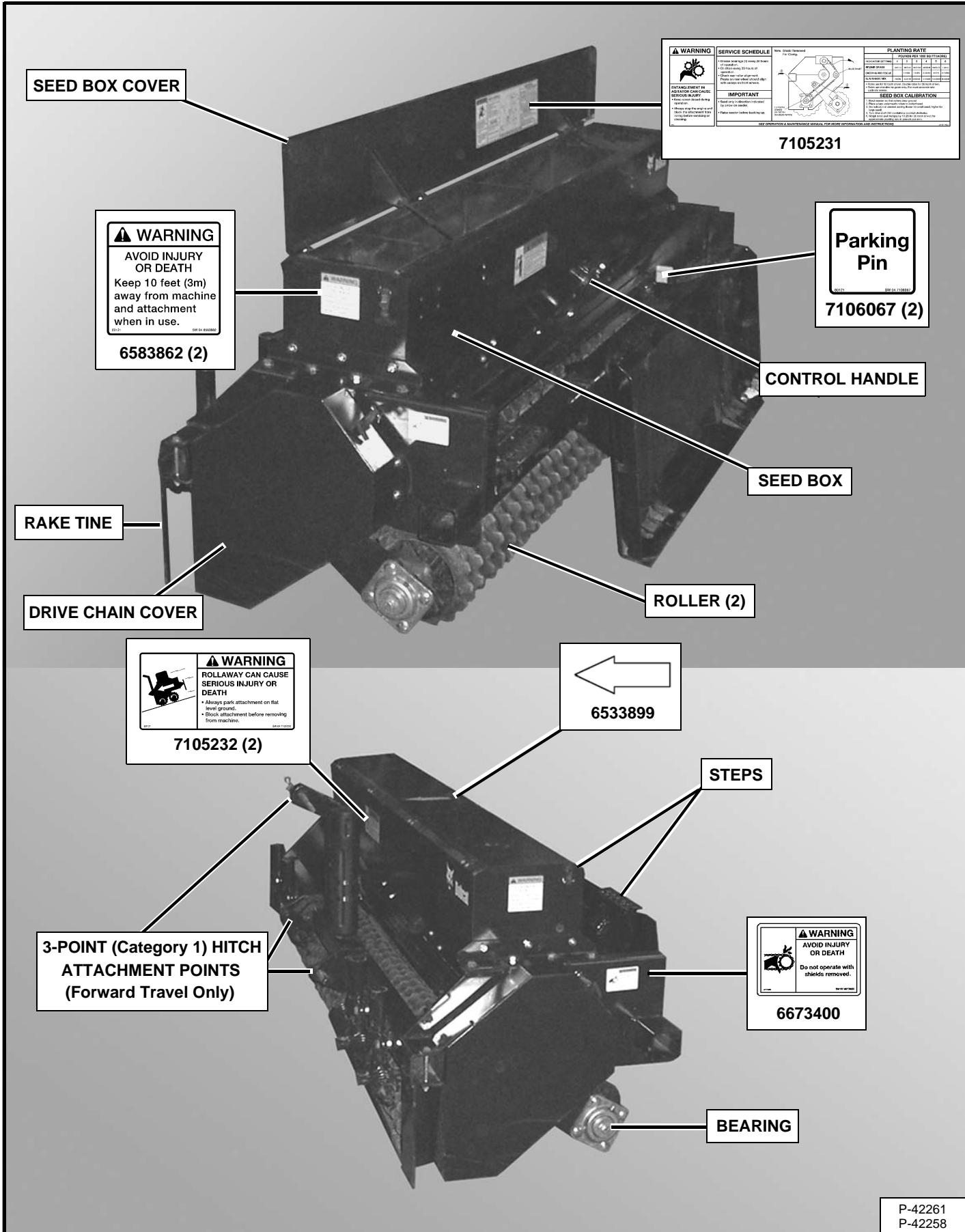
ATTACHMENT DELIVERY REPORT

Figure 2



The Attachment Delivery Report must be filled out by the dealer and signed by the owner or operator when the Seeder 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 AND MAINTENANCE

SAFETY AND MAINTENANCE

DRIVE CHAIN	10-30-1
Adjusting Chain Tension	10-30-1
Procedure	10-30-1
INSPECTION	10-20-1
Hand Lever Bob-Tach Inspection.....	10-20-1
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ROLLER ALIGNMENT	10-60-1
Adjusting Rollers	10-60-1
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TROUBLESHOOTING	10-10-1



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TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Planting rate is to heavy or not heavy enough.	Seeder not calibrated to seed type.	Calibrate seeder.
	26 tooth sprocket installed. (This doubles rate.)	Install 13 tooth sprocket.
No seed dropping from seeder.	Front roller not turning.	Seeder not contacting the ground.
		Tines are contacting the drum.
	Seed box agitator not turning.	Broken chain or sprocket roll pin.
Seeder difficult to attach with 3-point hitch.	Parking pins not engaged.	Engage parking pins.



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INSPECTION

Hand Lever Bob-Tach Inspection

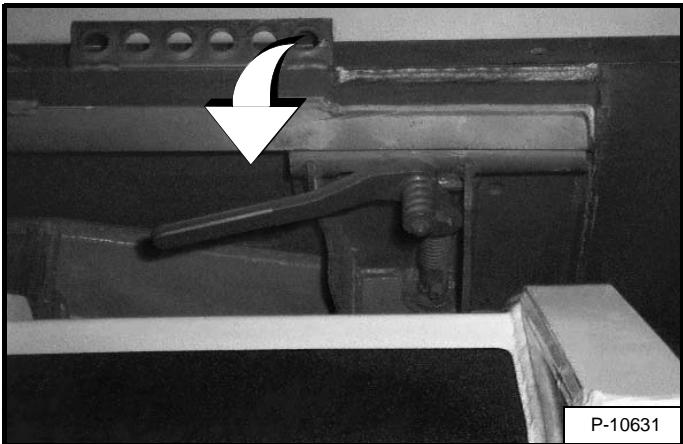


WARNING

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.

W-2102-0497

Figure 10-20-1

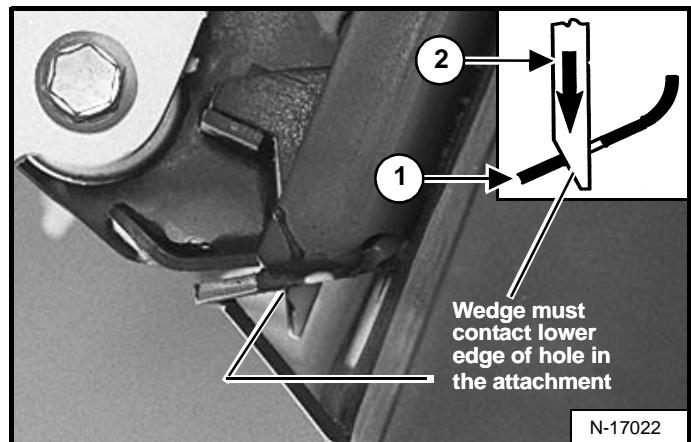


P-10631

Move the Bob-Tach levers down to engage the wedges [Figure 10-20-1].

The levers and wedges must move freely.

Figure 10-20-2

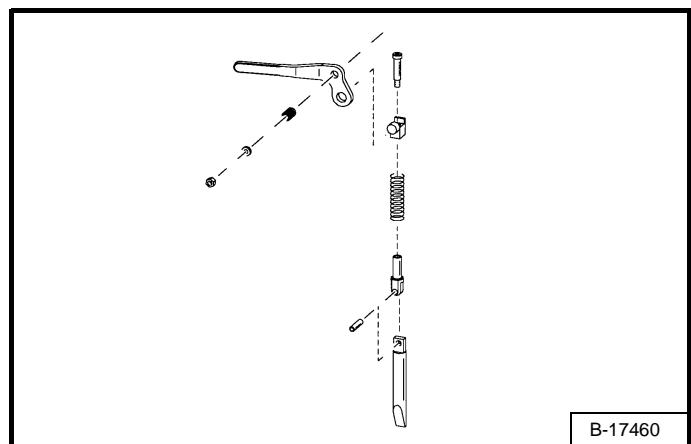


The wedges must extend through the holes in the attachment mounting frame (Item 1) [Figure 10-20-2].

The spring loaded wedge (Item 2) must contact the lower edge of the hole in the attachment (Item 1) [Figure 10-20-2].

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 10-20-3



B-17460

Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage. Replace any parts that are damaged, bent, or missing [Figure 10-20-3].

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

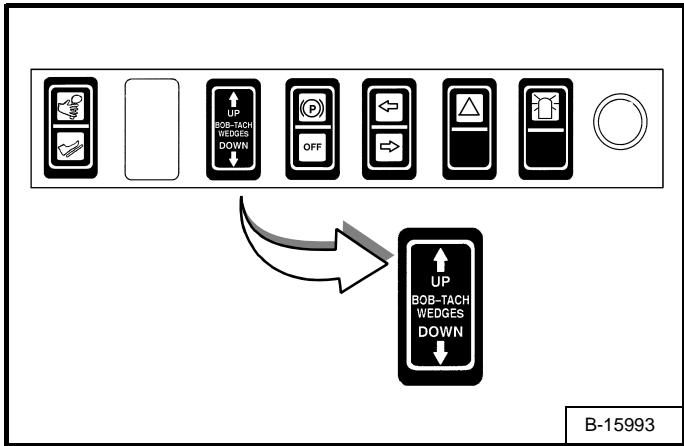


WARNING

Bob-Tach wedges must extend through the holes in attachment. 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 10-20-4

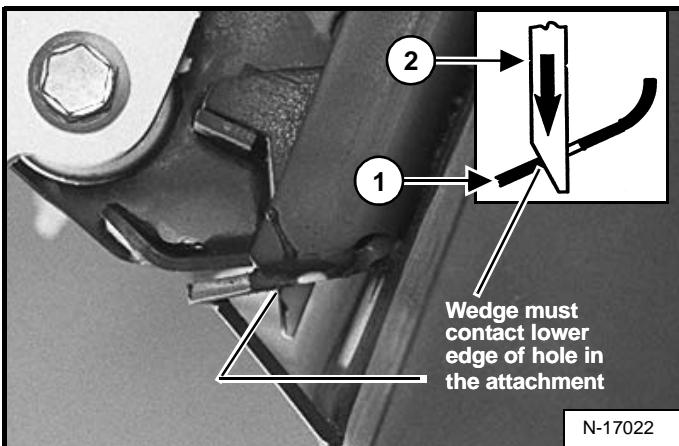


Push and hold the *BOB-TACH WEDGES UP* switch until wedges are fully raised. Push and hold the *BOB-TACH WEDGES DOWN* switch until the wedges are fully down [Figure 10-20-4].

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 10-20-5

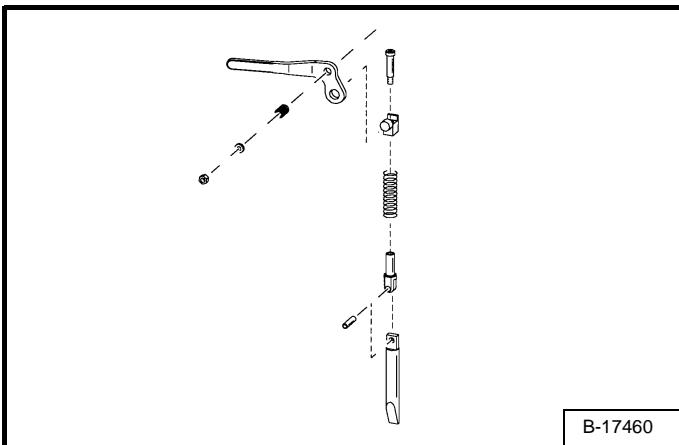


The wedges must extend through the holes in the attachment mounting frame (Item 1) [Figure 10-20-5].

The spring loaded wedge (Item 2) must contact the lower edge of the hole in the attachment (Item 1) [Figure 10-20-5].

If the wedge does not contact the lower edge of the hole [Figure 10-20-5] the attachment will be loose and can come off the Bob-Tach.

Figure 10-20-6



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 10-20-6].

Replace any parts that are damaged, bent, or missing. Keep all fasteners tight. Inspect the hoses and fittings for leaks.

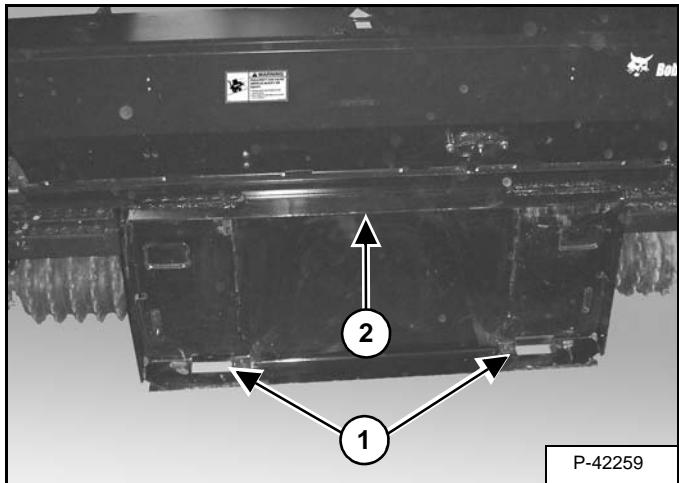
Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the correct loader Operation & Maintenance Manual for *LUBRICATION OF THE BOBCAT LOADER*.)

INSPECTION (CONT'D)

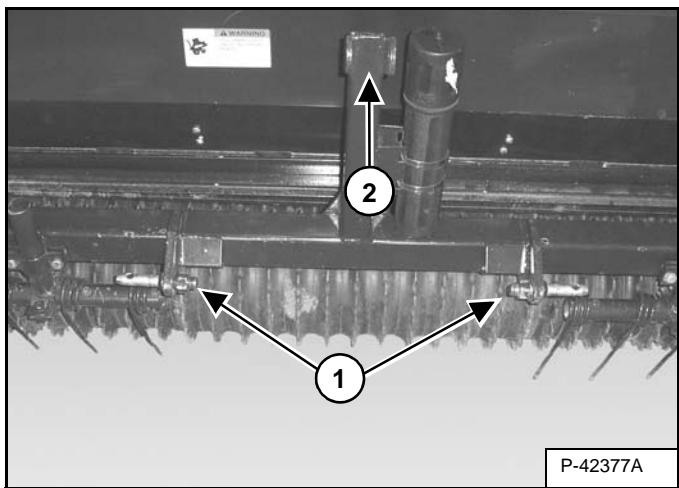
Seeder Inspection

Figure 10-20-7



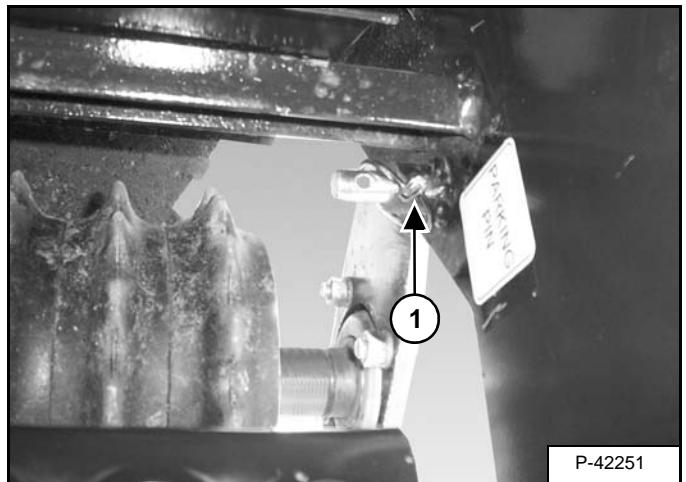
Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) and all welds on the seeder for wear and damage each time the seeder is removed from the loader/utility work machine [Figure 10-20-7].

Figure 10-20-8



Inspect the upper 3-point mount (Item 1), lower 3-point mounts (Item 2) and all welds on the seeder for wear and damage each time the seeder is removed from the tractor/machine [Figure 10-20-8].

Figure 10-20-9



Inspect the parking pin mount welds (Item 1) [Figure 10-20-9] on both sides of the seeder for wear and damage each time the seeder is removed from the machine.

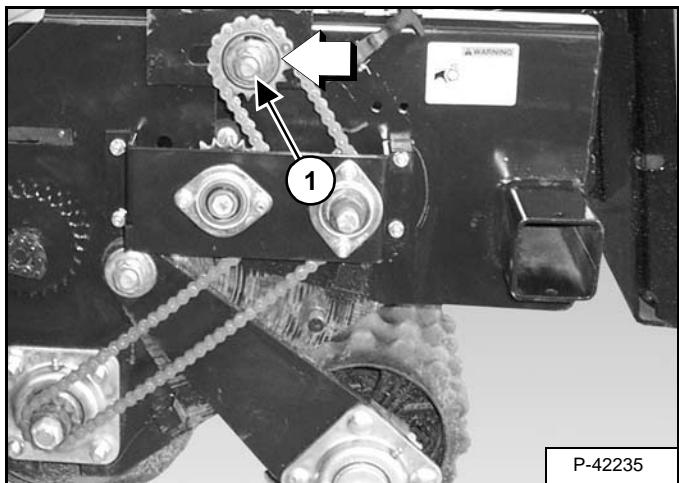


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DRIVE CHAIN

Adjusting Chain Tension

Figure 10-30-1

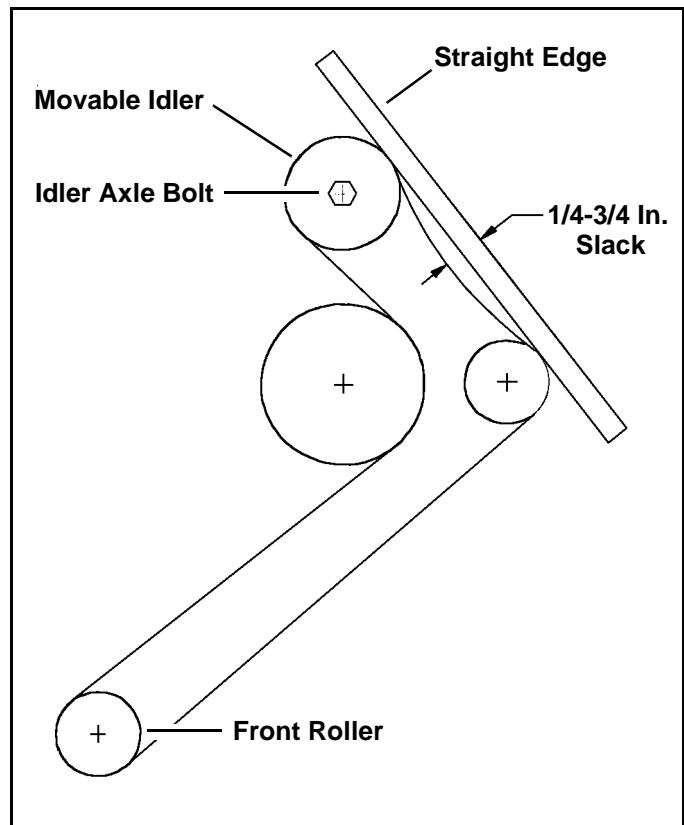


NOTE: Drive chain cover shown open for picture clarity.

Loosen the nut (Item 1) [Figure 10-30-1], then move the sprocket to the left to increase chain tension.

Procedure

Figure 10-30-2



1. Loosen the 5/8" idler axle bolt.
2. Place a straight edge along the edges of the idler sprocket and the upper 13-tooth sprocket.
3. Use the bolt to obtain about 1/4"-3/4" of slack in the chain.
4. Re-tighten idler bolt. Tighten bolt to 125-140 ft.-lb. (170-190 N•m) torque.

NOTE: Be careful not to over tighten the chain.



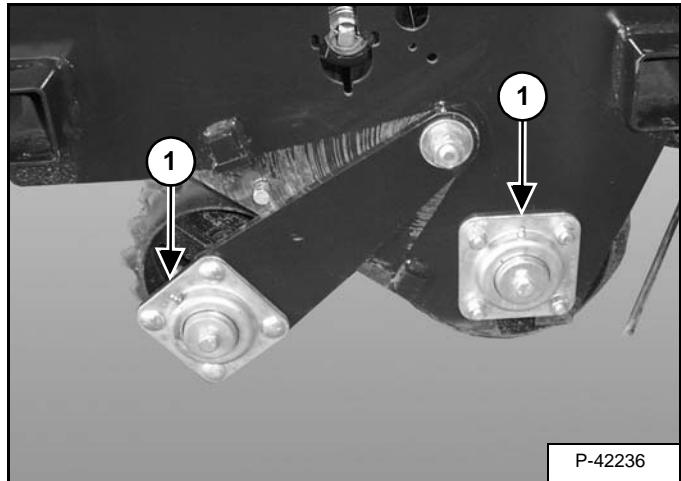
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LUBRICATION

Always use a good quality Lithium base grease when lubricating the seeder. Apply the lubricant until extra grease shows.

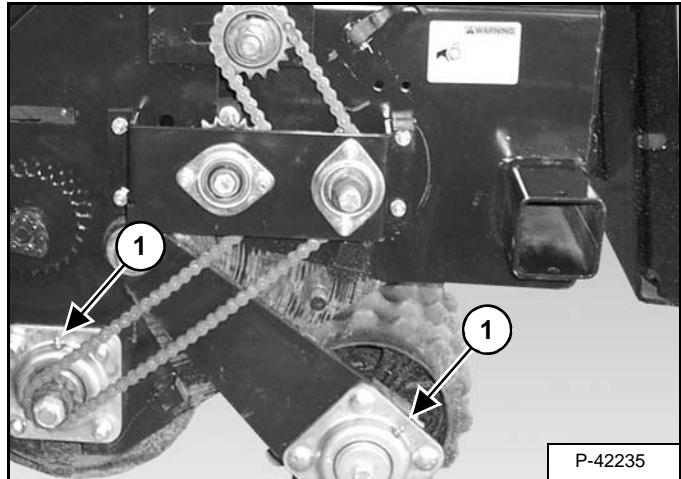
Grease the bearings every 20 hours;

Figure 10-40-1



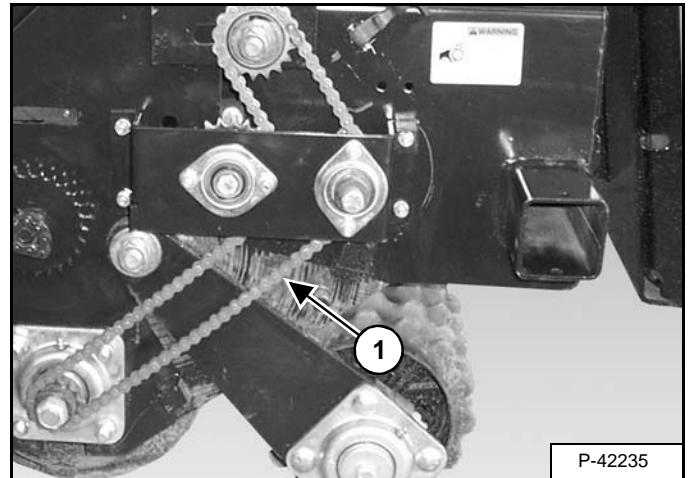
Apply grease to the bearing fittings (Item 1) [Figure 10-40-1].

Figure 10-40-2



Apply grease to the bearing fittings (Item 1) [Figure 10-40-2].

Figure 10-40-3



Oil chain (Item 1) [Figure 10-40-3] every 20 hours of operation.

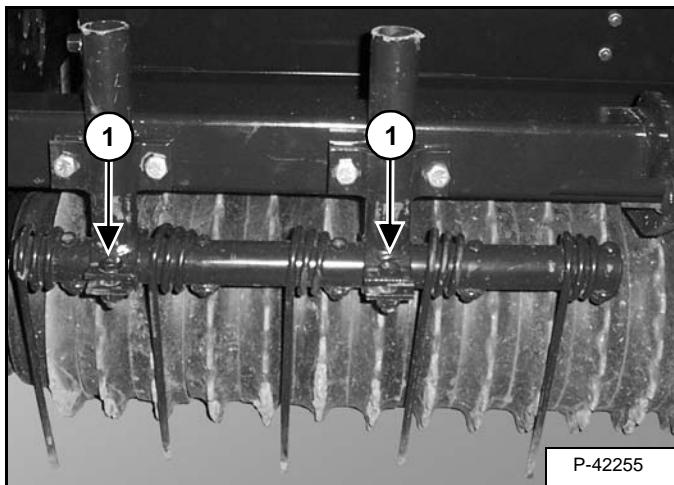


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RAKE TINES

Removal And Installation

Figure 10-50-1

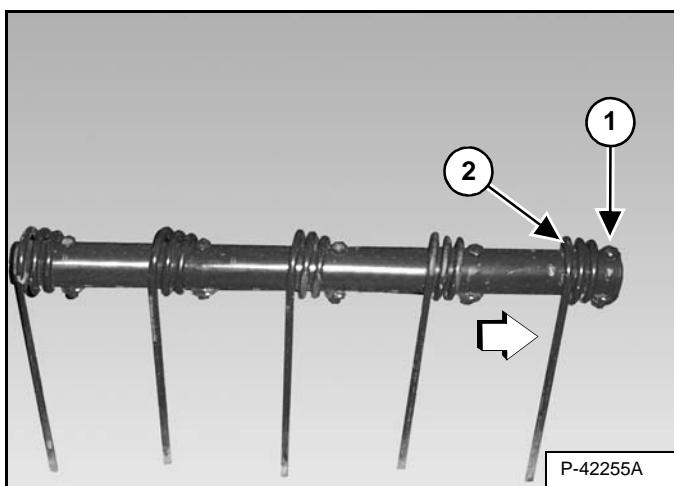


Remove the bolts (Item 1) [Figure 10-50-1] and nuts.

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

Remove the rake assembly (Item 2) [Figure 10-50-1]

Figure 10-50-2



Remove the bolt (Item 1) [Figure 10-50-2] and nut.

Installation: Tighten bolt to 25-28 ft.-lb. (34-38 N•m) torque.

Remove the tine (Item 2) [Figure 10-50-2] from the shaft.



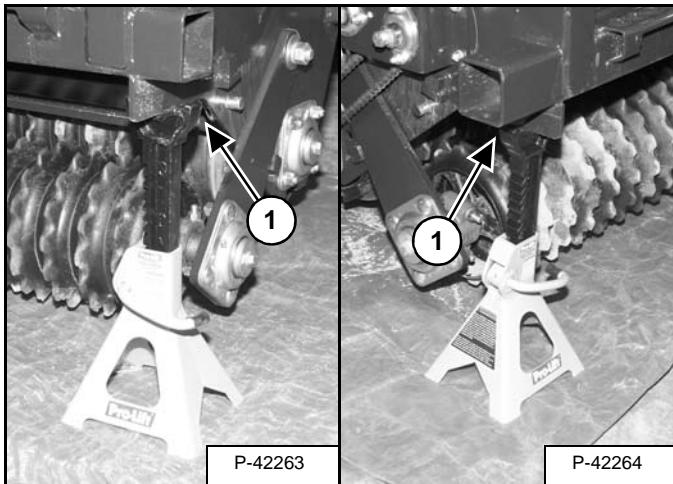
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ROLLER ALIGNMENT

Adjusting Rollers

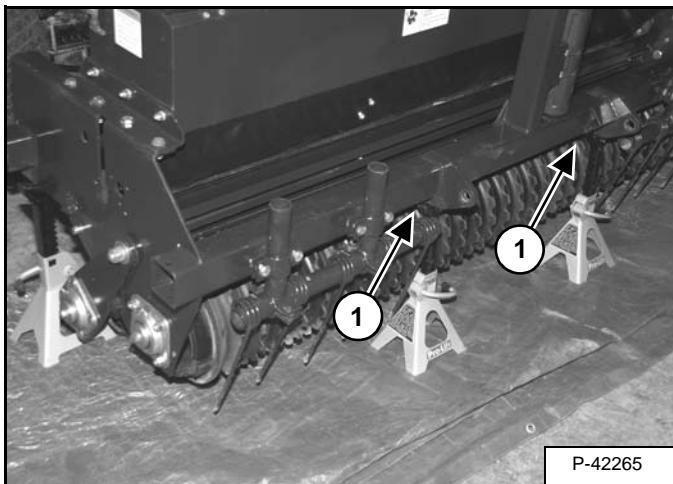


Figure 10-60-1



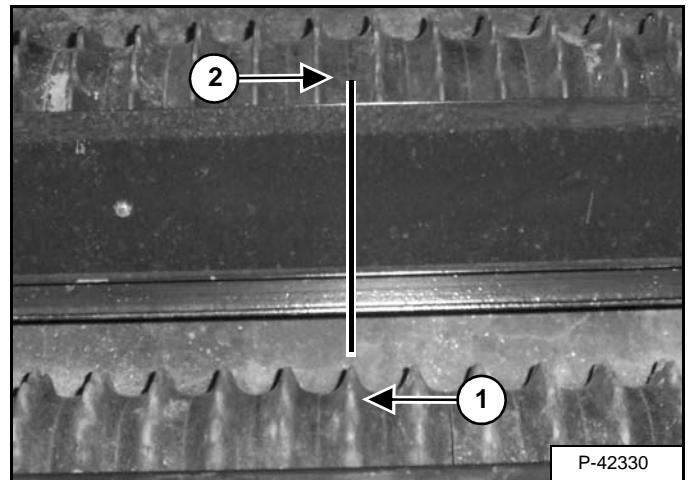
Place jack stands under the rear frame (Item 1) [Figure 10-60-1] of the seeder. Raise the seeder until the rear roller clears the ground.

Figure 10-60-2



Place jack stands under the front frame (Item 1) [Figure 10-60-2] of the seeder. Raise the seeder until the front roller clears the ground

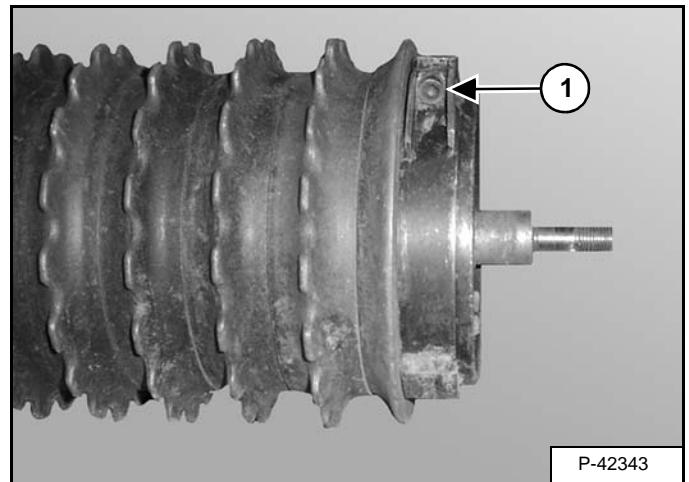
Figure 10-60-3



NOTE: Seed box has been removed for picture clarity.

The rear roller wheels (Item 1) should line up with the valleys (Item 2) of the front roller [Figure 10-60-3].

Figure 10-60-4



NOTE: Roller has been removed for picture clarity.

Loosen the clamp(s) (Item 1) [Figure 10-60-4] on the ends of the rollers and align rollers.

NOTE: When tightening the clamp, the gap in the clamp must straddle the weld seam of the pipe.

Tighten clamp(s) to 40-45 ft.-lb. (54-61 N·m) torque.



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MAIN FRAME

AGITATOR DRIVE ASSEMBLY	20-70-1
Agitator Drive Sprocket Replacement	20-70-2
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Outside Bearing Replacement	20-70-1
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FRONT ROLLER	20-20-1
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Replacement	20-10-1
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Inside Bearing Replacement	20-60-1
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Hex Drive Flange Removal And Installation	20-40-5
Hex Shaft Removal And Installation	20-40-5
Square Drive Flange Removal And Installation	20-40-5
Removal And Installation	20-40-1

MAIN
FRAME



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FRONT ROLLER BEARING

Replacement

! WARNING

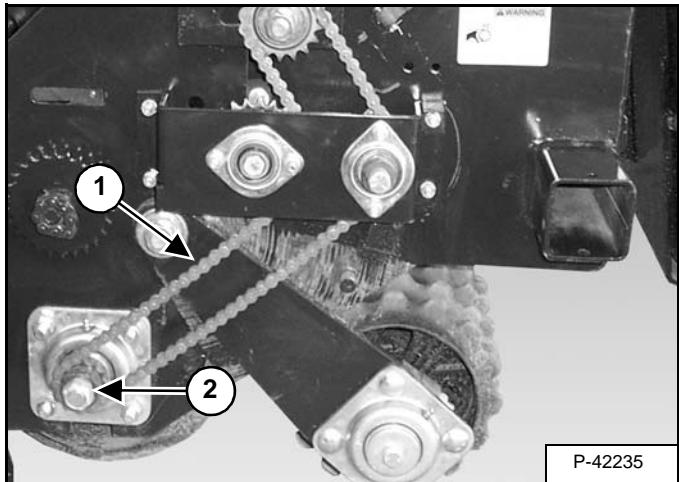
Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-1285

Left Side

Figure 20-10-1



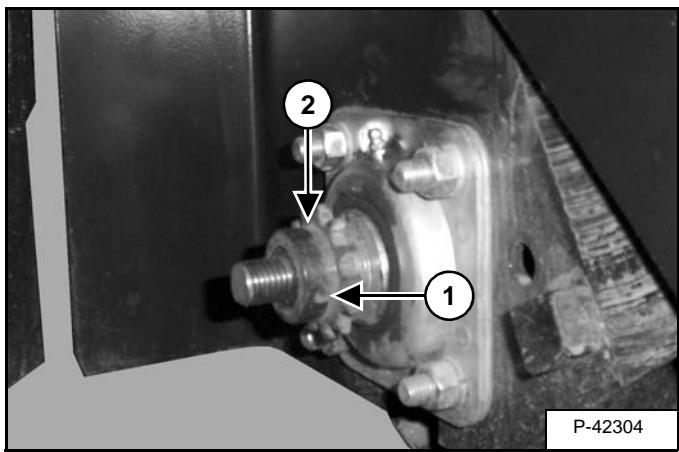
P-42235

Remove the drive chain (Item 1) [Figure 20-10-1]. (See Removal And Installation on Page 20-50-1.)

Remove nut (Item 2) [Figure 20-10-1].

Installation: Tighten nut to 220-245 ft.-lb. (300-330 N•m) torque [Figure 20-10-1].

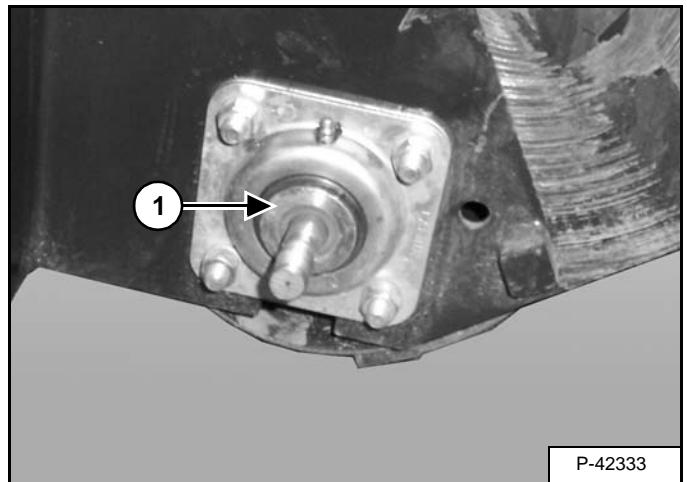
Figure 20-10-2



P-42304

Remove roll pin (Item 1), then remove the sprocket (Item 2) [Figure 20-10-2].

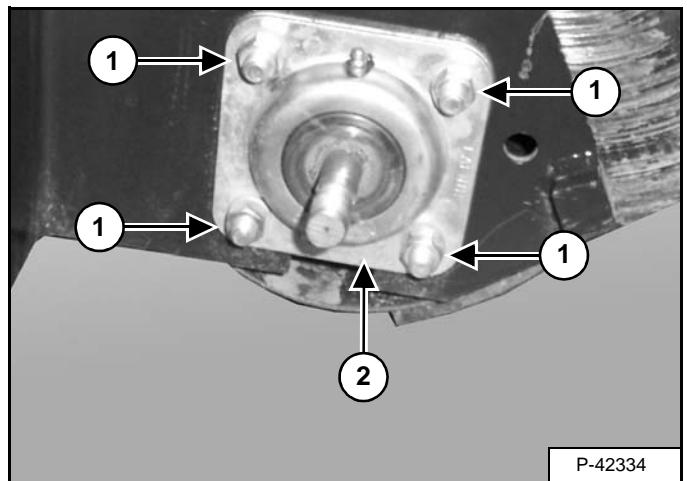
Figure 20-10-3



P-42333

Remove washer (Item 1) [Figure 20-10-3].

Figure 20-10-4



P-42334

Remove the four nuts (Item 1) [Figure 20-10-4].

Installation: Tighten nut to 65-70 ft.-lb. (88-95 N•m) torque [Figure 20-10-4].

NOTE: When replacing front and rear roller bearings, make sure grease fittings are assembled toward the top as shown [Figure 20-10-4].

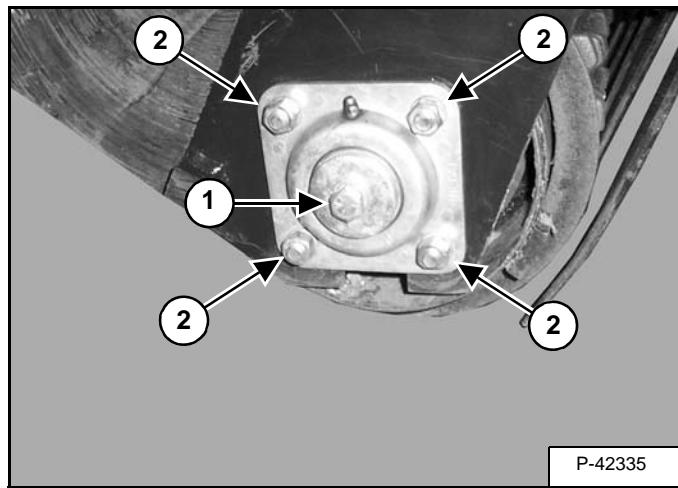
Remove and replace bearing (Item 2) [Figure 20-10-4].

FRONT ROLLER BEARING (CONT'D)

Replacement (Cont'd)

Right Side

Figure 20-10-5



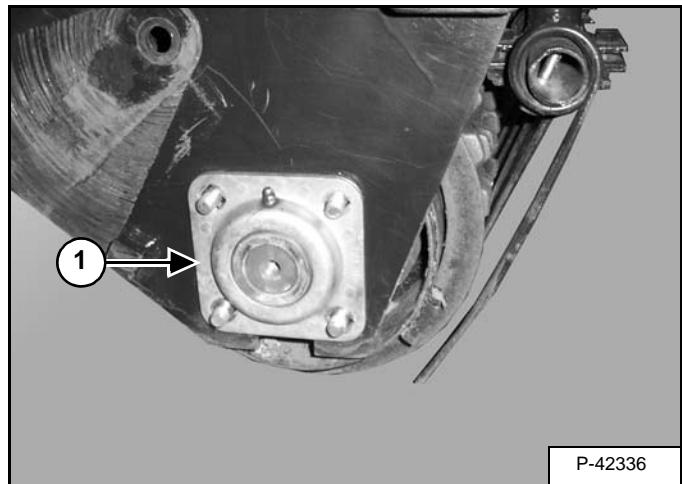
Remove the bolt (Item 1) [Figure 20-10-5] lock nut and washer.

Installation: Tighten nut to 220-245 ft.-lb. (300-330 N•m) torque [Figure 20-10-5].

Remove the four nuts (Item 2) [Figure 20-10-5] and lock washers.

Installation: Tighten nut to 65-70 ft.-lb. (88-95 N•m) torque [Figure 20-10-5].

Figure 20-10-6



NOTE: When replacing front and rear roller bearings, make sure grease fittings are assembled toward the top as shown [Figure 20-10-6].

Remove and replace bearing (Item 1) [Figure 20-10-6].

REAR ROLLER BEARING Replacement

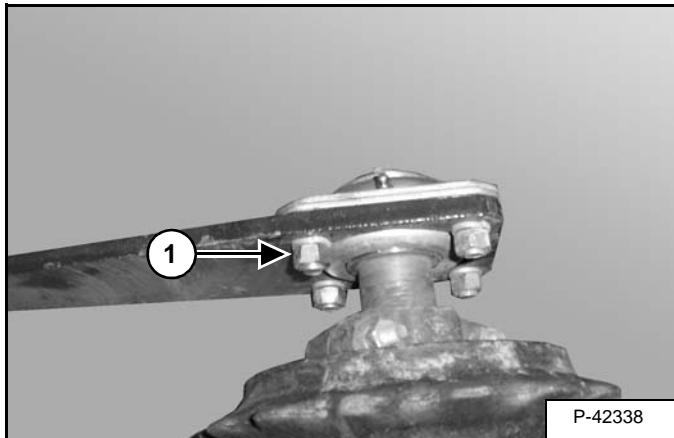
! WARNING

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

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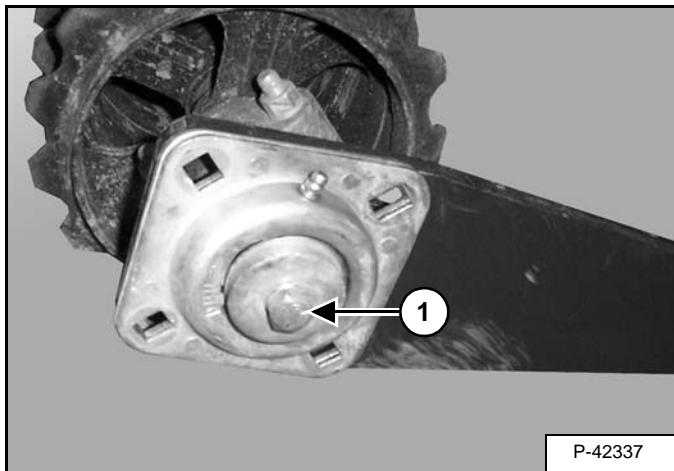
Figure 20-11-1



Remove the four nuts (Item 1) [Figure 20-11-1] and carriage bolts.

Installation: Tighten nuts to 65-70 ft.-lb. (88-95 N•m) torque [Figure 20-11-1].

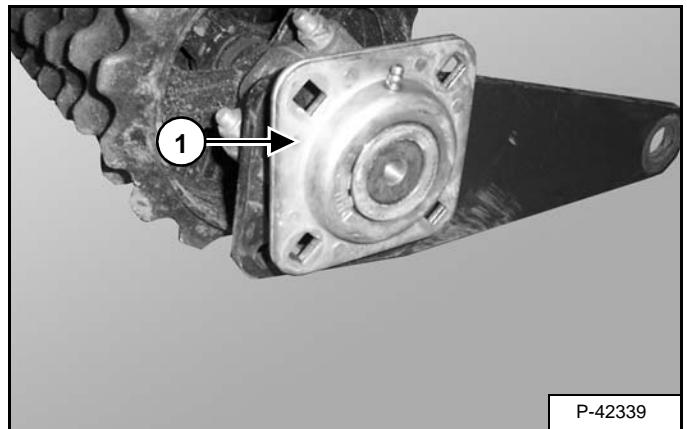
Figure 20-11-2



Remove bolt (Item 1) [Figure 20-11-2], lock washer and flat washer.

Installation: Tighten bolt to 65-70 ft.-lb. (88-95 N•m) torque [Figure 20-11-2].

Figure 20-11-3



NOTE: When replacing front and rear roller bearings, make sure grease fittings are assembled toward the top as shown [Figure 20-11-3].

Remove and replace bearing (Item 1) [Figure 20-11-3].



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FRONT ROLLER

Removal And Installation



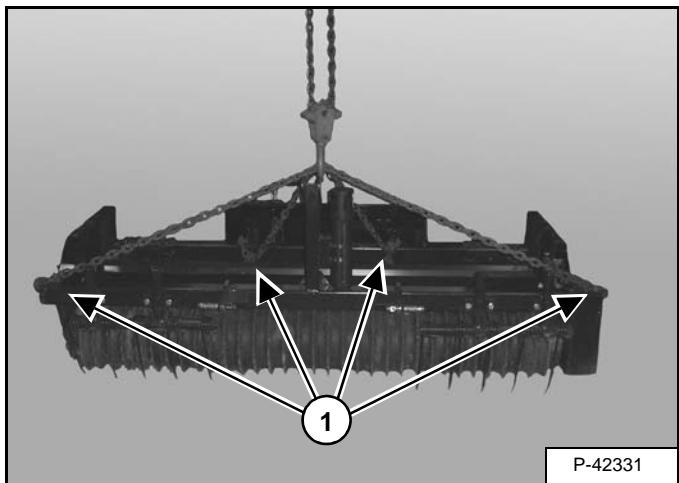
WARNING

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- Engine is running.
- Tools are being used.

W-2019-1285

Figure 20-20-1



P-42331

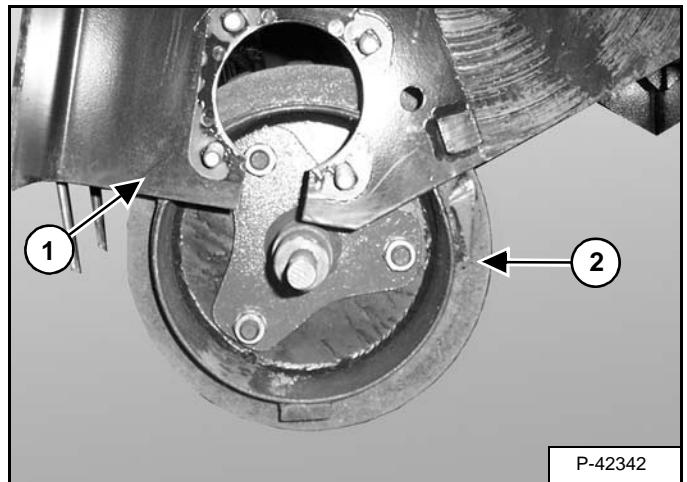
NOTE: Use chains that are in good condition and of adequate size to lift the attachment.

Install chains (Item 1) [Figure 20-20-1] on the seeder.

Remove drive chain. (See Removal And Installation on Page 20-50-1.)

Remove front roller bearings. (See FRONT ROLLER BEARING on Page 20-10-1.)

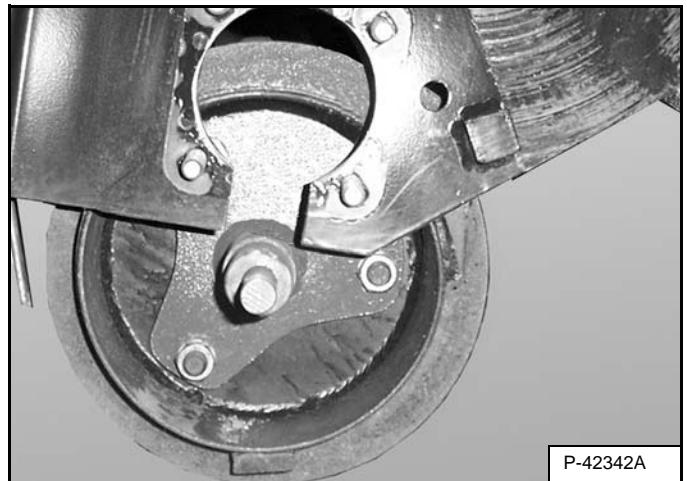
Figure 20-20-2



P-42342

Raise the seeder (Item 1) until the front roller (Item 2) is free from the seeder [Figure 20-20-2].

Figure 20-20-3



P-42342A

Installation: Align the seeder with the front roller, lower the seeder onto the roller [Figure 20-20-3].

NOTE: Leave chains installed on the seeder. When installing the bearings, the seeder may need to be raised or lowered to align the stub shaft and bearing with the holes in the seeder.

Install front roller bearings. (See FRONT ROLLER BEARING on Page 20-10-1.)

Install drive chain. (See Removal And Installation on Page 20-50-1.)

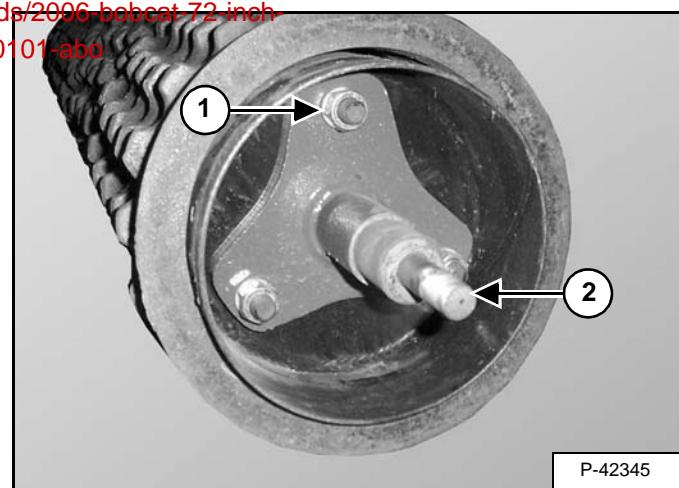
⚠ WARNING

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

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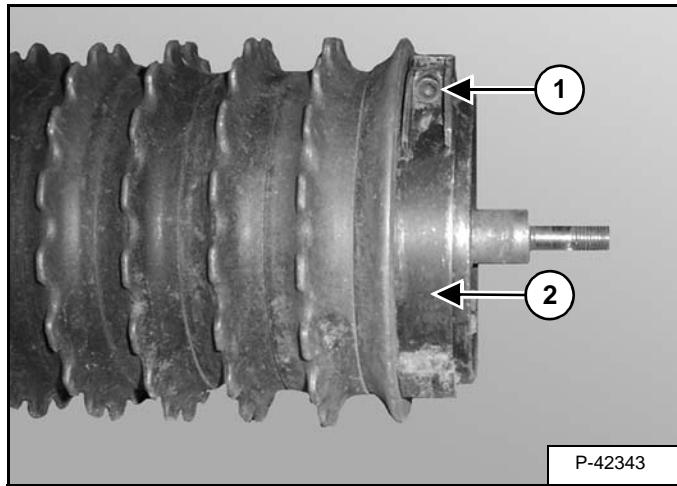
W-2019-1285

Figure 20-20-6



P-42345

Figure 20-20-4

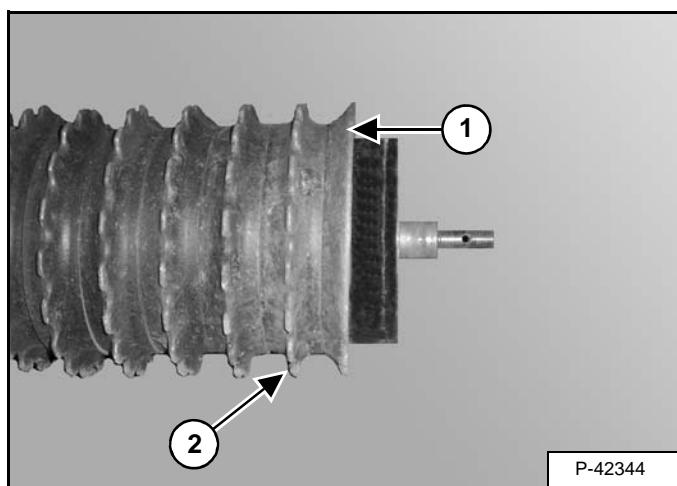


P-42343

Loosen capscrew (Item 1), then remove the band clamp (Item 2) [Figure 20-20-4].

Installation: Tighten capscrew to 220-245 ft.-lb. (300-330 N•m) torque [Figure 20-20-4].

Figure 20-20-5



P-42344

Remove the end wheel (Item 1) and sand wheel(s) (Item 2) [Figure 20-20-5].

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Seeder

Service Manual