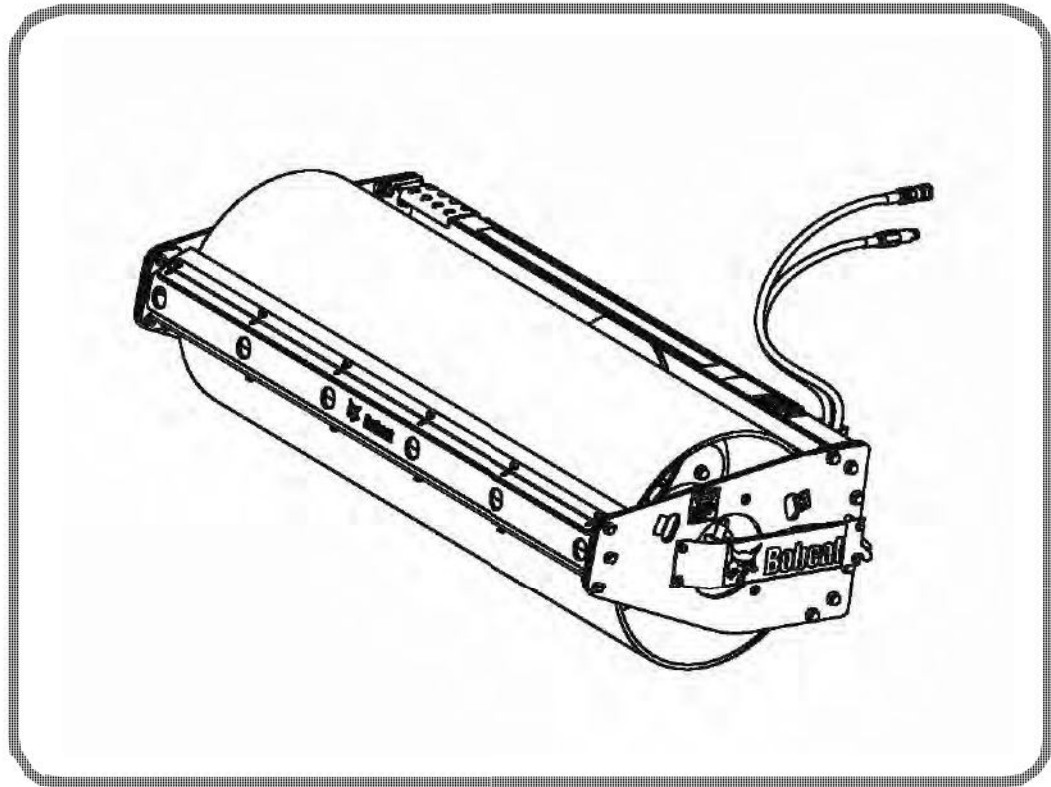




Bobcat®

Service Manual Vibratory Roller

(Roller 48 Padded) S/N AFLJ00101 & Above
(Roller 48 Smooth) S/N AFLK00101 & Above
(Roller 73 Padded) S/N AFLD00101 & Above
(Roller 73 Smooth) S/N AFLE00101 & Above
(Roller 80 Smooth) S/N AFLC00101 & Above



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MAINTENANCE SAFETY



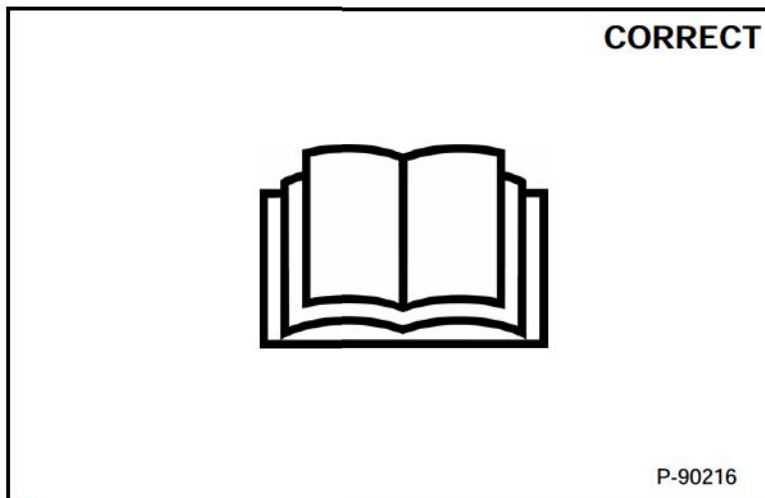
WARNING









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-2003-0807



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 / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement 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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SERIAL NUMBER LOCATION

Attachment Serial Number

Figure 1

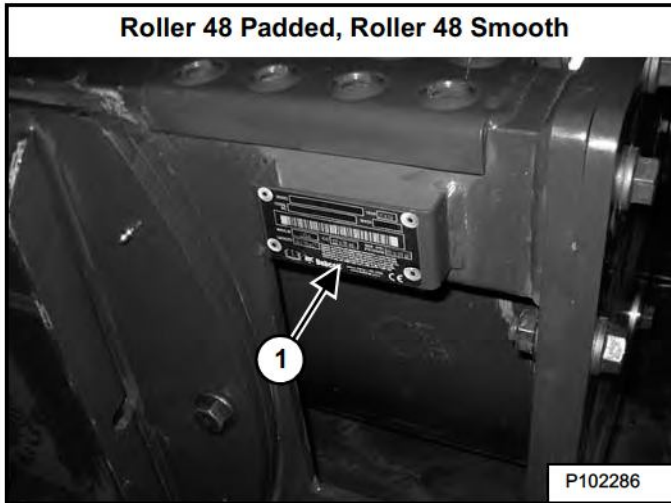
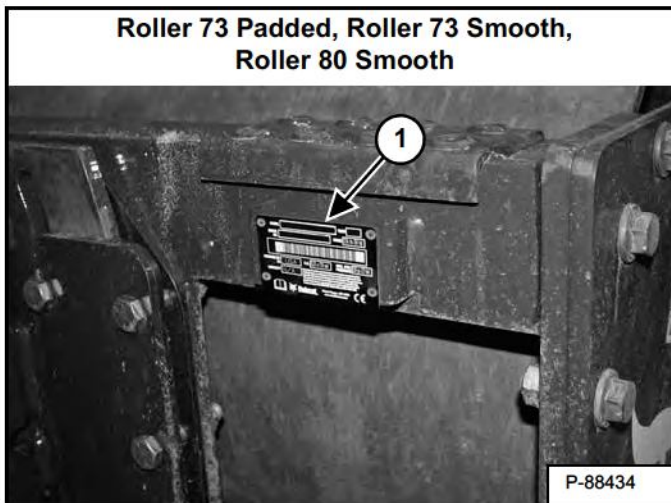


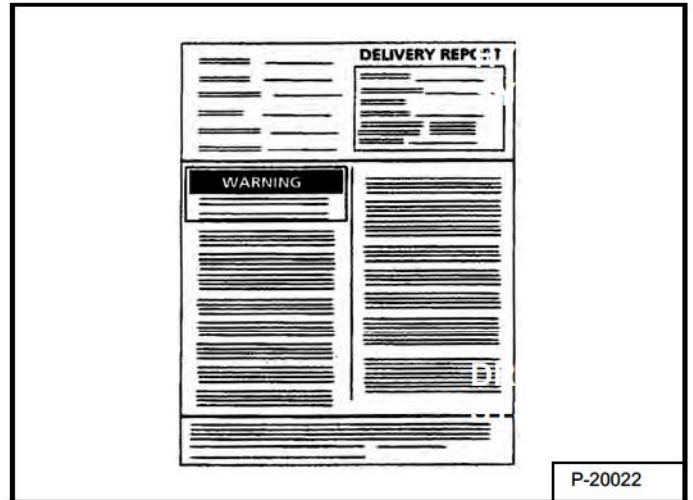
Figure 2



Always use the serial number (Item 1) [Figure 1] & [Figure 2] of the vibratory roller 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.

DELIVERY REPORT

Figure 3

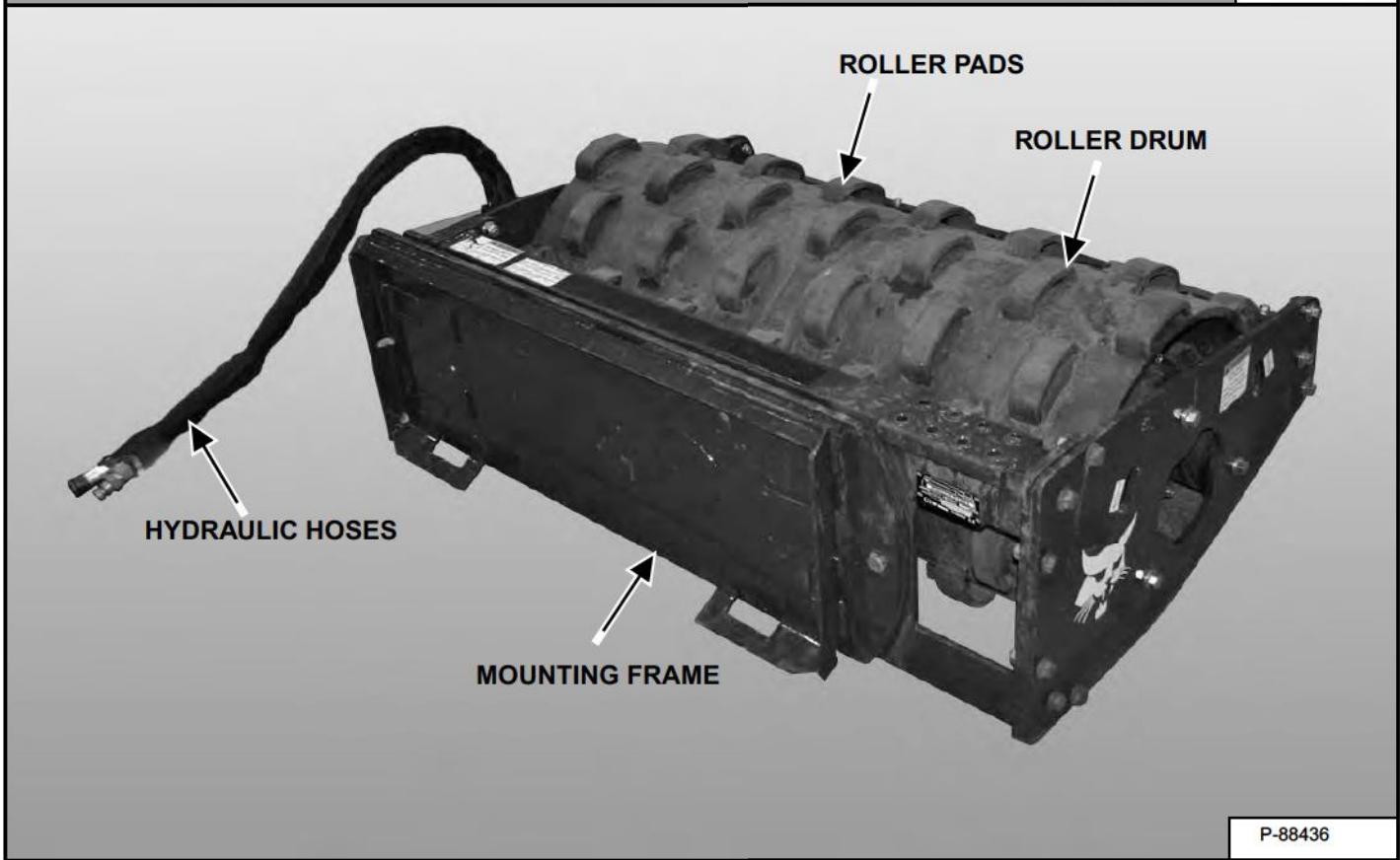
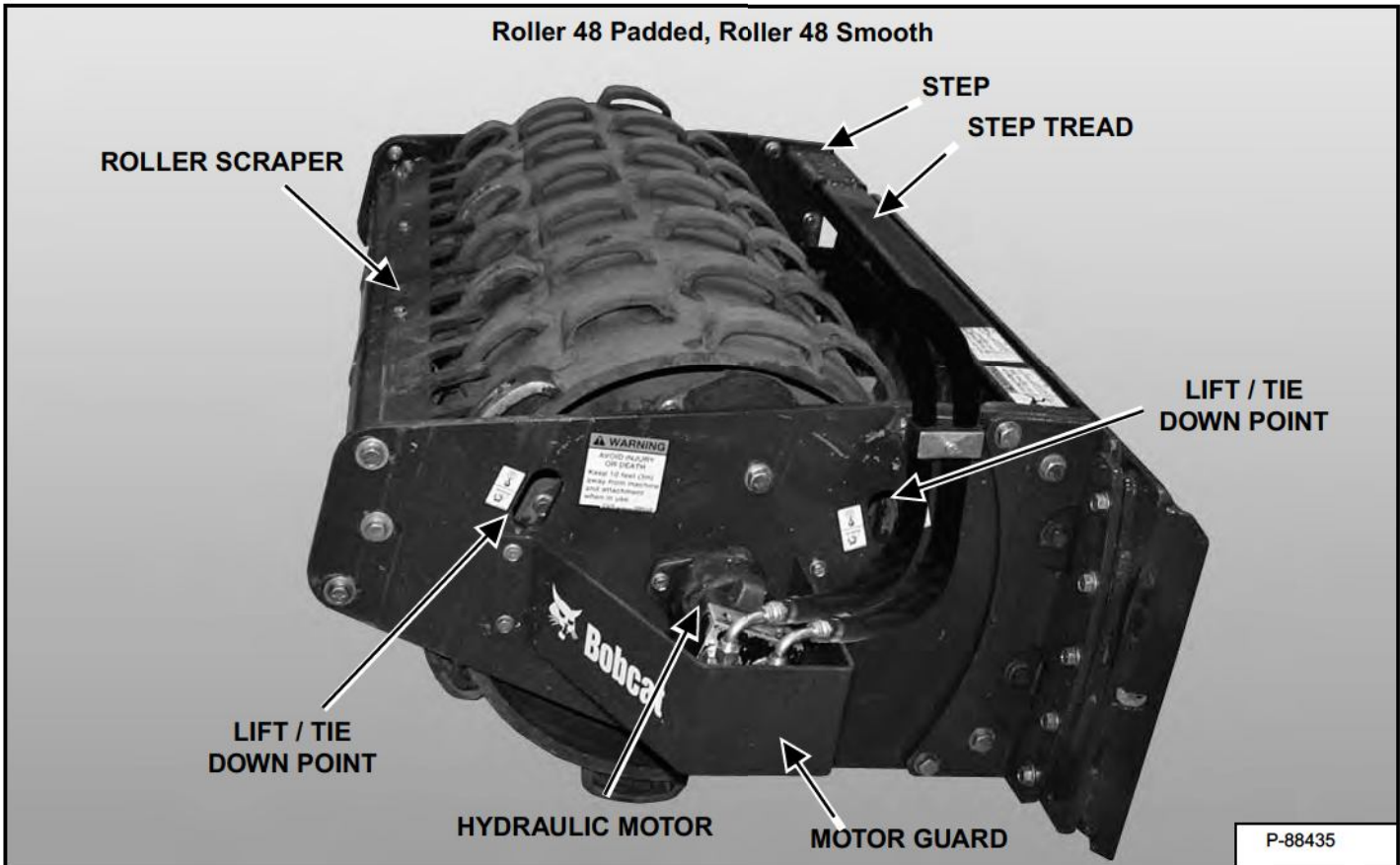


The delivery report [Figure 3] must be completed by the dealer and signed by the owner or operator when the Bobcat vibratory roller is delivered. An explanation of the form must be given to the owner.

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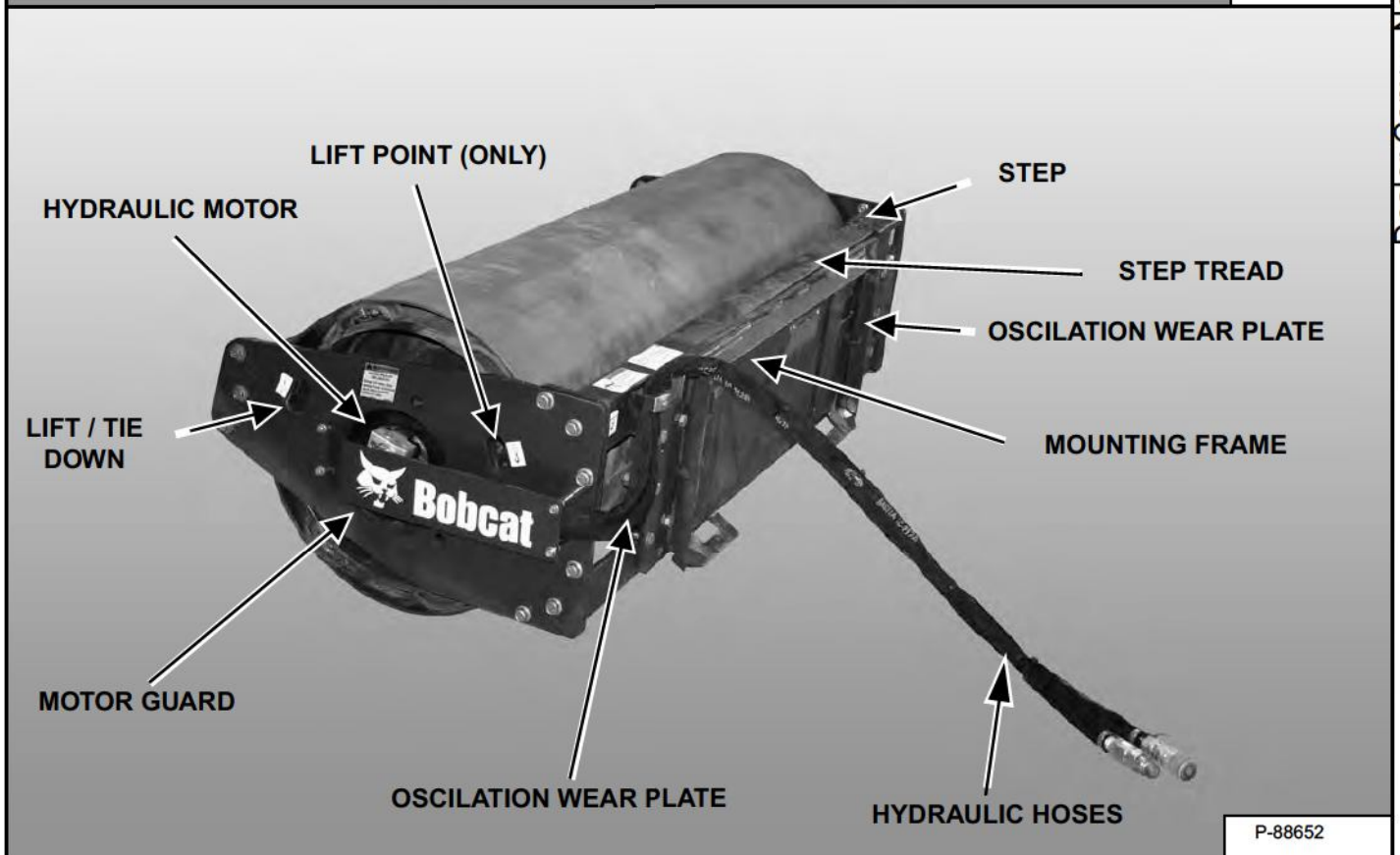
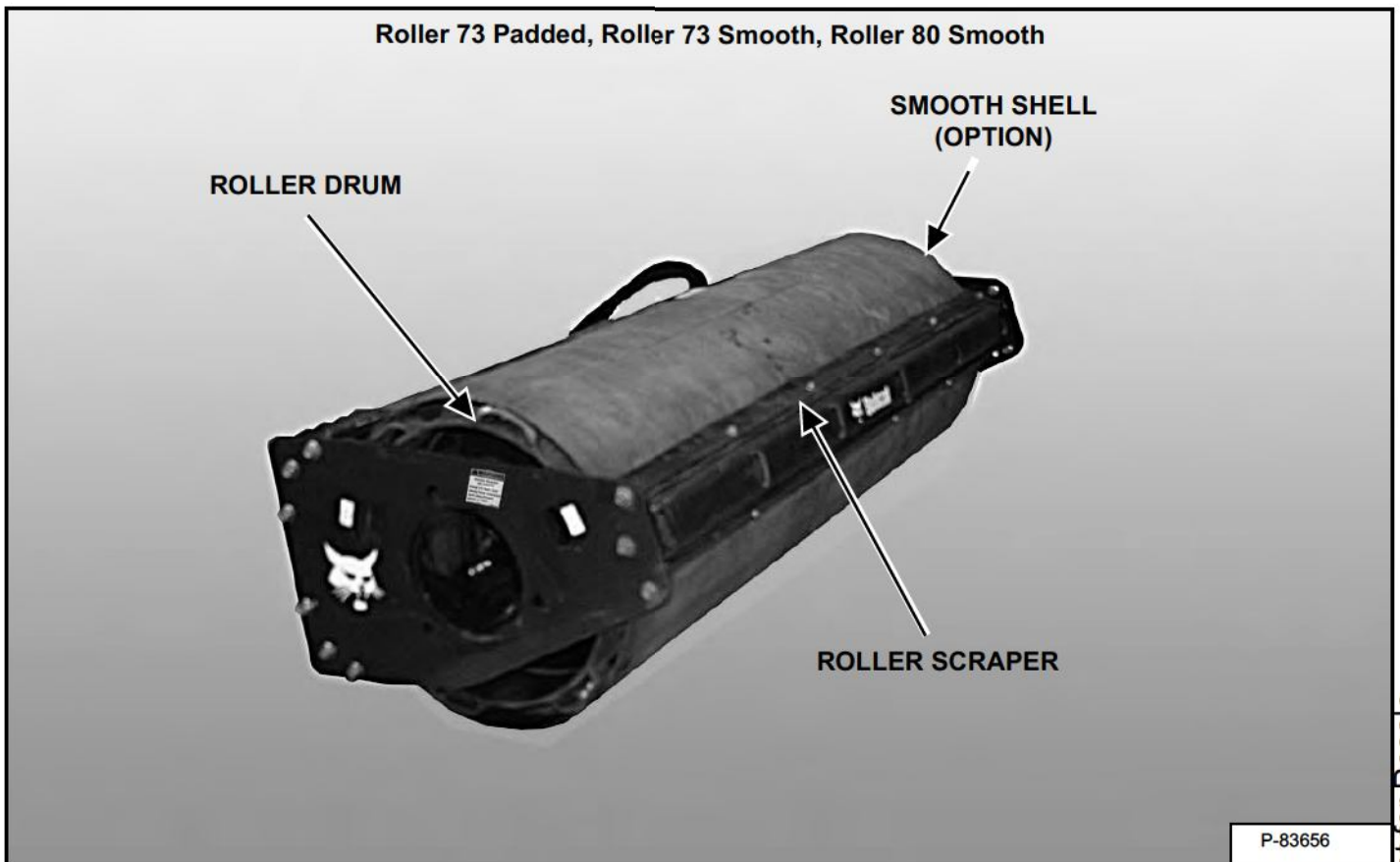
ATTACHMENT IDENTIFICATION

Roller 48 Padded, Roller 48 Smooth



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ATTACHMENT IDENTIFICATION (CONT'D)



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FEATURES AND ACCESSORIES

Standard Items

The vibratory roller is equipped with the following standard items.

- Scrapers.
- Variable Isolators.
- Oscillation Frame.
- Bi-directional Operation.

Options And Accessories

- Water Kit.
- Smooth Shell Kit.


SAFETY & MAINTENANCE

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TROUBLESHOOTING

Chart

 <b style="font-size: 24pt; margin-left: 10px;">WARNING	<p>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.</p> <p style="text-align: right; font-size: 10pt;">W-2003-0903</p>
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Use the following troubleshooting chart to locate and correct problems which most often occur with the attachment.

ROLLER 48 PADDED AND ROLLER 48 SMOOTH		
PROBLEM	CAUSE	CORRECTION
Vibratory Roller shaft will not rotate	Loader fluid reservoir is low	Add fluid to reservoir on loader
	No fluid to vibratory roller	Check connections and flow to roller
	Loader hydraulic pump not working	Repair or replace as needed
	Damaged quick couplers	Replace quick couplers
	Coupler flexible element is broken or torn	Replace the flexible element
Vibratory Roller shaft rotates slowly	Not enough hydraulic flow	Test loader hydraulics for flow and pressure
	Relief valve in hydraulic cushion is not functioning	See the vibratory roller Service Manual for the correct procedure
Vibratory Roller shaft will not rotate	Loader fluid reservoir is low	Add fluid to reservoir on loader, remove relief valve and inspect O-ring condition
Does not oscillate	Lack of lubrication	Grease the mounting frame


ROLLER 73 PADDED, ROLLER 73 SMOOTH AND ROLLER 80 SMOOTH		
PROBLEM	CAUSE	CORRECTION
Vibratory Roller shaft will not rotate	Loader fluid reservoir is low	Add fluid to reservoir on loader
	No fluid to vibratory roller	Check connections and flow to roller
	Loader hydraulic pump not working	Repair or replace as needed
	Damaged quick couplers	Replace quick couplers
	Coupler flexible element is broken or torn	Replace the flexible element
Vibratory Roller shaft rotates slowly	Not enough hydraulic flow	Test loader hydraulics for flow and pressure
	Relief valve in hydraulic cushion is not functioning	See the vibratory roller Service Manual for the correct procedure
Vibratory Roller shaft will not rotate	Loader fluid reservoir is low	Add fluid to reservoir on loader, remove relief valve and inspect O-ring condition
Does not oscillate	Improper wear plate adjustment	See the vibratory roller Operation and Maintenance Manual for the correct procedure

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SERVICE SCHEDULE

Description

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat product.

 WARNING	<p>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.</p> <p style="text-align: right;">W-2003-0199</p>
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ROLLER 48 PADDED AND ROLLER 48 SMOOTH			
SERVICE SCHEDULE		FREQUENCY	
ITEM	SERVICE REQUIRED	25 HOURS	ANNUALLY AND / OR 200 HOURS
Pivot Frame	Lubricate grease fittings on frame.		
Eccentric Case	Change the case oil.		

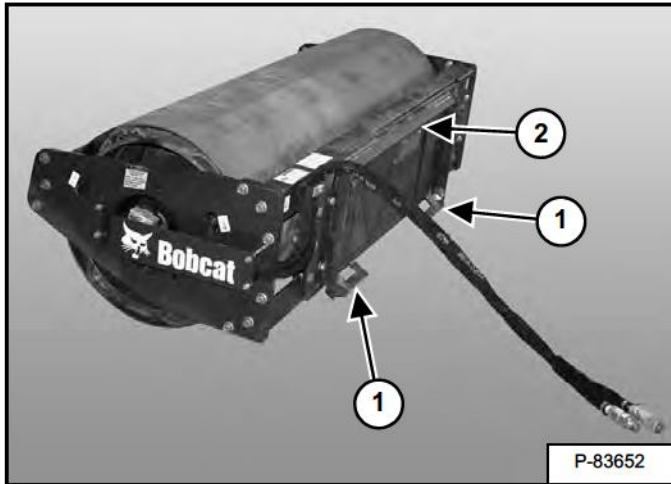
ROLLER 73 PADDED, ROLLER 73 SMOOTH AND ROLLER 80 SMOOTH			
SERVICE SCHEDULE		FREQUENCY	
ITEM	SERVICE REQUIRED	ANNUALLY AND / OR 200 HOURS	
Eccentric Case	Change the case oil.		
Wear Plates	Annually adjust for wear.		

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INSPECTION

Attachment Mounting Frame

Figure 10-30-1



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

Frequently inspect the vibratory roller to ensure that all components are secure and that all bolts and nuts are thoroughly tightened.

Bob-Tach

Hand Lever Bob-Tach

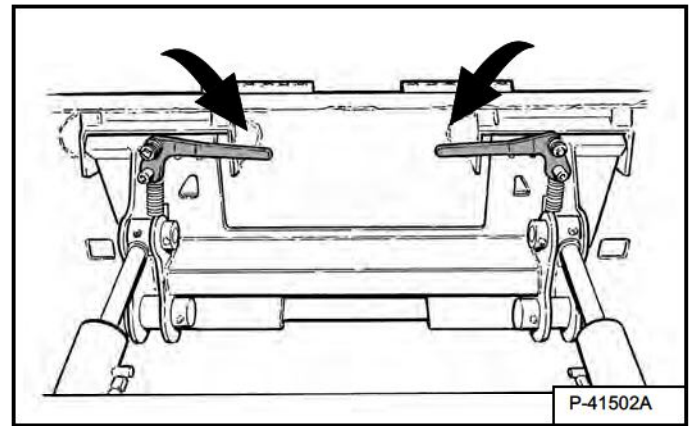
WARNING

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.

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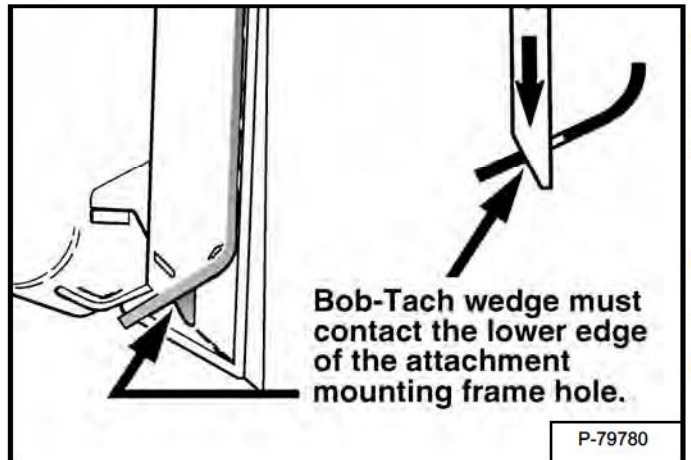
Figure 10-30-2



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 10-30-2] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-30-2].

Figure 10-30-3



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-30-3].

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.)

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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.

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Figure 10-30-4

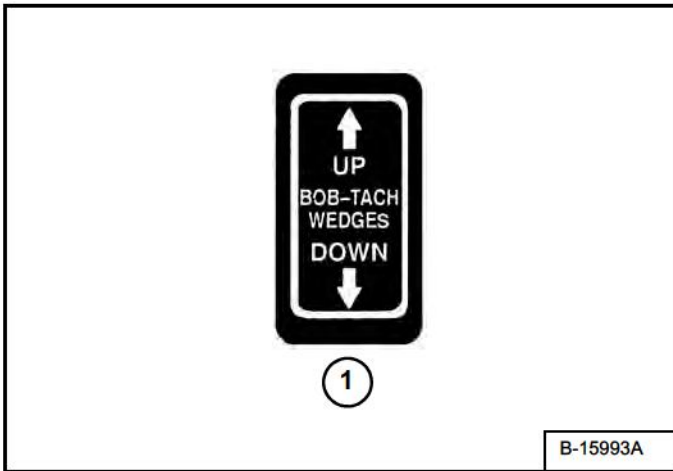
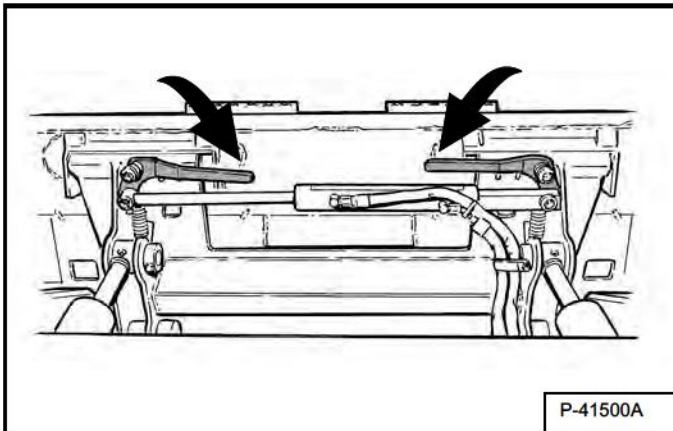
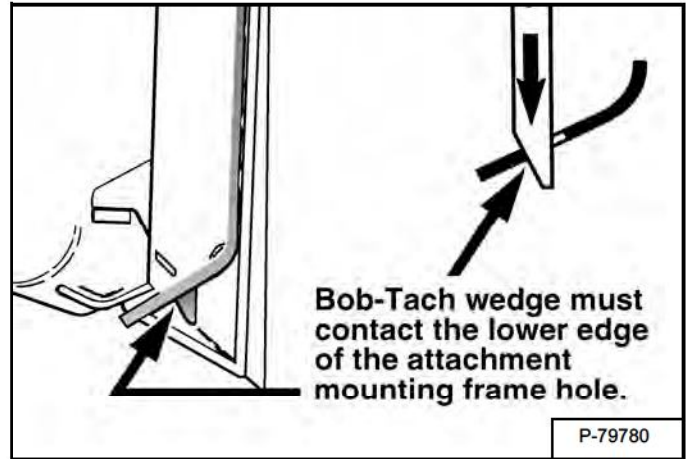


Figure 10-30-5



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

Figure 10-30-6



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-30-6].

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 and 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.)

ATTACHMENT STORAGE AND RETURN TO SERVICE

Storage

Sometimes it may be necessary to store your Bobcat attachment for an extended period of time. Below is a list of items to perform before storage.

- Thoroughly clean the attachment.
- Lubricate the attachment.
- Inspect the Bob-Tach wedge mounts, mounting flange and all welds on the attachment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Replace worn or damaged parts.
- Check for damaged or missing decals. Replace if necessary.
- Place the attachment in a dry protected shelter.
- Place the attachment flat on the ground.
- Put all controls in neutral position.

NOTE: Do not store the vibratory roller with load binders or chains for extended periods of time on a trailer (isolators may be damaged as a result).

NOTE: In muddy conditions or to prevent the attachment from freezing to the ground, put the attachment on planks or blocks before removing the attachment from the machine.

Return To Service

After the Bobcat attachment has been in storage, it is necessary to follow a list of items to return the attachment to service.

- Be sure all shields and guards are in place.
- Lubricate the attachment.
- Install and operate attachment, check for correct function.
- Check for leaks. Repair as needed.

REGULAR MAINTENANCE ITEMS

Scraper Frame And Edge Adjustment

Scraper Frame

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 regulations for the correct disposal.

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Adjusting the scraper frame position may be needed as the scraper edge wears. The edge will need to be adjusted.

Both frame and scraper edges are slotted for wear adjustment.

NOTE: The dimensions given are for reference only as ideal dimensions vary with soil types and conditions.

! 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.

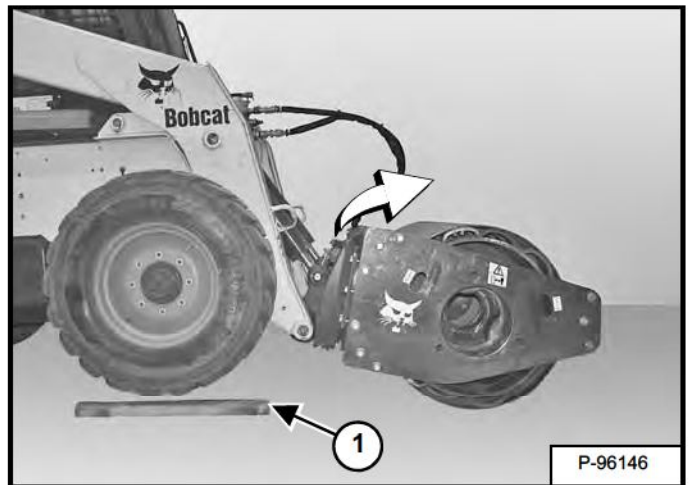
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Install the vibratory roller on the loader. (See the vibratory roller Operation & Maintenance Manual for correct procedure.)

Enter the loader and start the engine. (See the vibratory roller Operation & Maintenance Manual for correct procedure.)

NOTE: To accommodate isolator deflection, the scraper frame adjustment is made with loader down force fully applied.

Figure 10-50-1



Fully lower the lift arms.

Fully lower the attachment completely to the ground.

Roll out the loader Bob-Tach until the front of the loader is slightly off the ground as shown in [Figure 10-50-1].

Stop the engine and exit the loader. (See the vibratory roller Operation & Maintenance Manual for correct procedure.)

Insert a wood block under each front tire / track (Item 1) [Figure 10-50-1] on both sides.

! WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Lower the lift arms and put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise the seat bar.
- Move all controls to the NEUTRAL / LOCKED position to make sure the lift, tilt and traction drive functions are deactivated.

The seat bar system must deactivate these functions when the seat bar is up. See your Bobcat dealer for service if controls do not deactivate.

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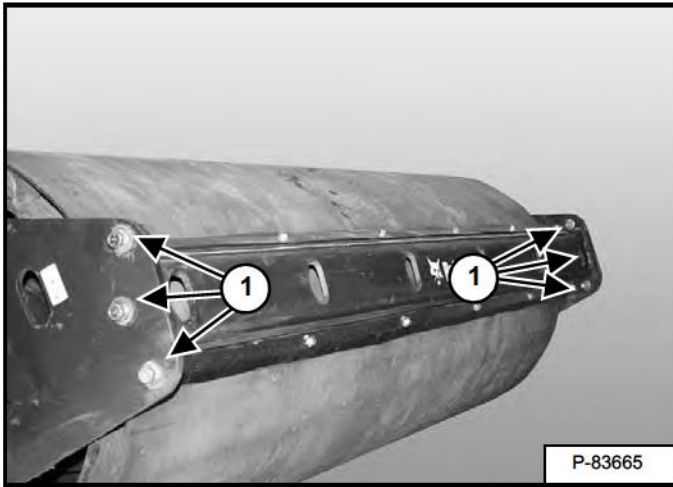
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REGULAR MAINTENANCE ITEMS (CONT'D)

Scraper Frame And Edge Adjustment (Cont'd)

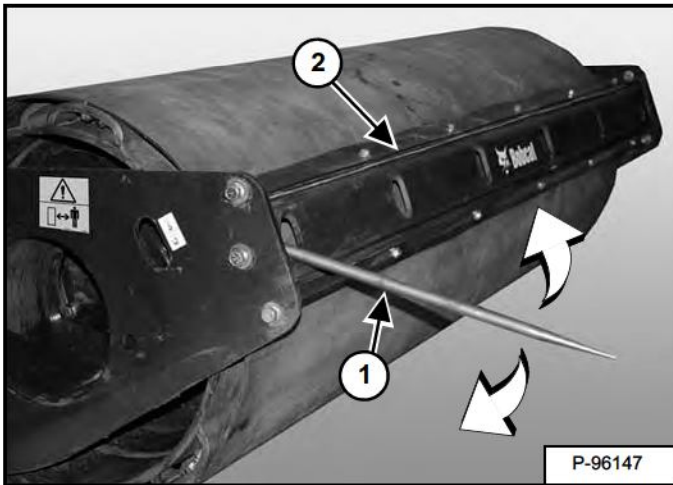
Scraper Frame (Cont'd)

Figure 10-50-2



Loosen the bolts and nuts (Item 1) [Figure 10-50-2] on both sides.

Figure 10-50-3



Insert a steel bar (Item 1) [Figure 10-50-3] into the cross frame to serve as a lever.

Move the steel bar (Item 1) up or down to adjust the cross frame (Item 2) [Figure 10-50-3] to the roller.

Figure 10-50-4

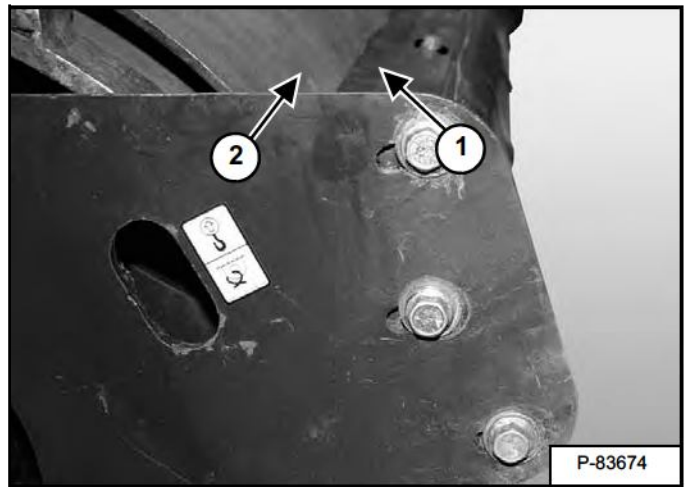
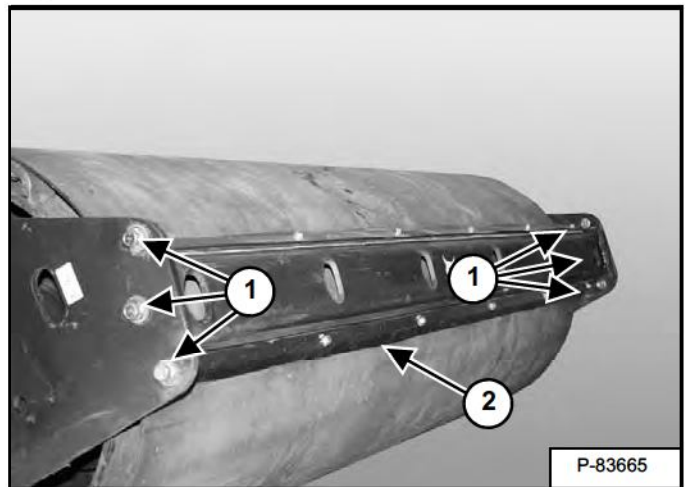


Figure 10-50-5



Adjust the cross frame so the upper scraper edge (Item 1) makes slight contact with the roller shell (Item 2) [Figure 10-50-4], while maintaining a 9,5 mm (0.38 in) gap for the lower scraper edge (Item 2) [Figure 10-50-5].

Tighten the bolts and nuts (Item 1) [Figure 10-50-5] on both sides.

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