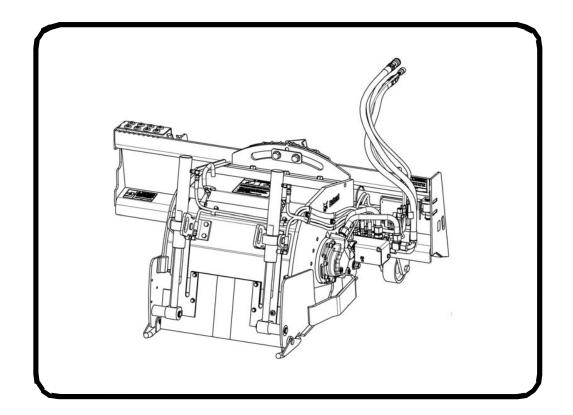


Service Manual Planer

(18PLA) S/N AKS200101 & Above (24PLA) S/N AJN700101 & Above (PNSFL) S/N AKS300101 & Above





MAINTENANCE SAFETY

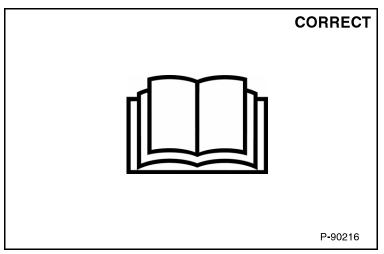


Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after 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.
- A 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.
- A 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.

MSW30-0409

Thanks very much for your reading,

Want to get more information,

Please click here, Then get the complete
manual



NOTE:

If there is no response to click on the link above, please download the PDF document first, and then click on it.

Have any questions please write to me: admin@servicemanualperfect.com



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FOREWORD

SERIAL NUMBER LOCATION	
DELIVERY REPORT	. 1-7
ATTACHMENT IDENTIFICATION	
(18PLA And 24PLA) Planer	

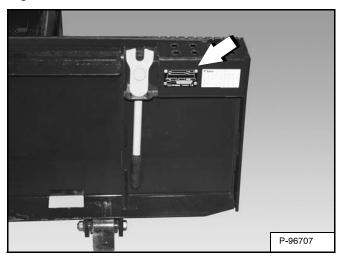


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SERIAL NUMBER LOCATION

Attachment Serial Number

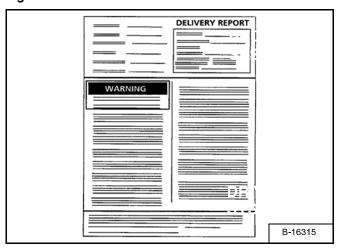
Figure 1



Always use the serial number [Figure 1] of the planer 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

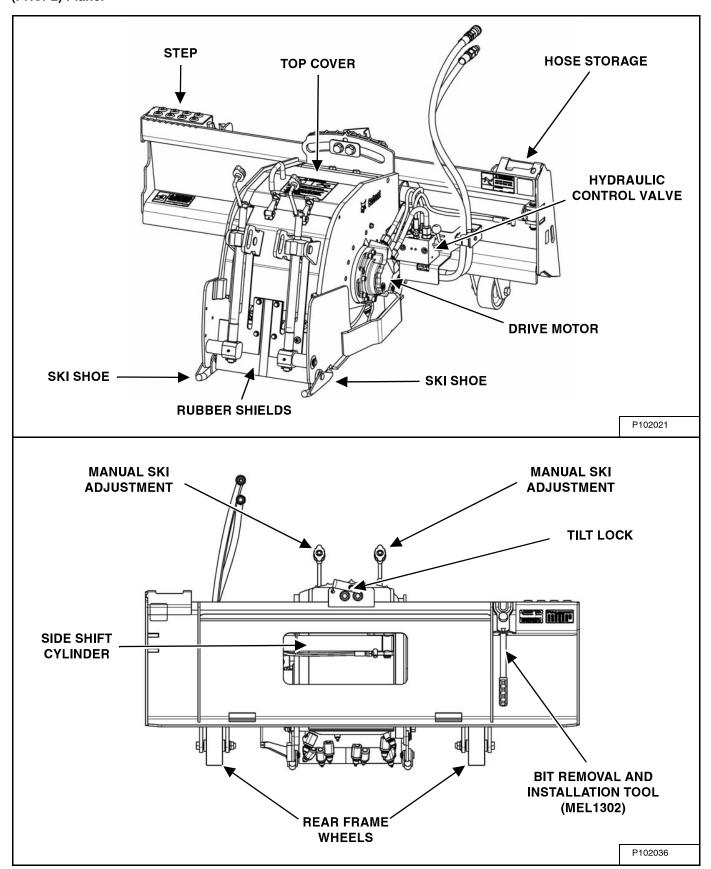
Figure 2



The delivery report **[Figure 2]** must be completed by the dealer and signed by the owner or operator when the Bobcat planer is delivered. An explanation of the form must be given to the owner.

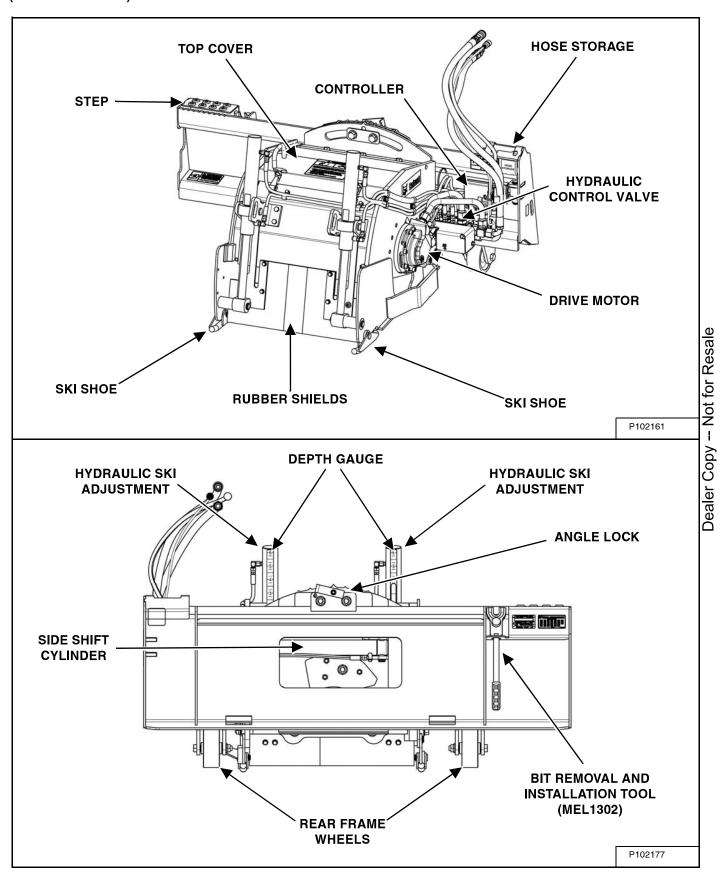
ATTACHMENT IDENTIFICATION

(PNSFL) Planer



ATTACHMENT IDENTIFICATION (CONT'D)

(18PLA And 24PLA) Planer





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SAFETY AND MAINTENANCE

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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

If the attachment is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the attachment. Attachment problems can be affected by a hydraulic system that is not operating to specifications. Connect a flow meter to the machine to check the hydraulic pump output, relief valve setting and tube lines to check flow and pressure. (See the machine's 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 attachment.

normal speed. Flow diverter valve. Make sure Hi Flow is ON.	PROBLEM	CAUSE	CORRECTION
External oil leaks. Motor case pressure too high. Check the case drain line.	Planer cut is inadequate.	Carbide bits worn or missing.	Replace the carbide bits.
Defective assembly. Damaged O-rings. Replace O-rings as needed. Planer will not side shift. Damage to wiring or electrical connectors. Not enough hydraulic pressure. Planer housing seized or rusted in place. Drum motor with load does not turn. Internal hydraulic leaks. Check motor. Noisy motor (with no load). Loaded motor does not turn at normal speed. Drum motor does not rotate. Front auxiliary hydraulics not engaged. Excessive hydraulic leaks. Check cylinder block and valve block assembly. No hydraulic leaks. Check cylinder and valve block assembly. No hydraulic flow. Check pump ffive and rotation speed. Check in flow diverter valve. Engage the loader front auxiliary. Engage the loader front auxiliary. Check cylinder and valve block assembly. No hydraulic flow. Check pump drive and pump inlet. No hydraulic flow. Check pump drive and pump inlet. Replace the carbide bits. Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Install new ski pivot bushings.	Noisy motor (with load).	Vibration; loose bolts.	Check torque.
Damaged O-rings. Planer will not side shift. Damage to wiring or electrical connectors. Not enough hydraulic pressure. Planer housing seized or rusted in place. Drum motor with load does not turn. Internal hydraulic leaks. Loaded motor does not turn at normal speed. Drum motor does not rotate. Pront auxiliary hydraulics not engaged. Excessive hydraulic leakage. Pront auxiliary hydraulics not engaged. Excessive hydraulic leakage. Planer does not mill to correct depth. Decals misplaced or missing. Replace O-rings as needed. See your Bobcat dealer. See your Bobcat dealer. Test loader hydraulics for flow and pressure. Remove rust or material interference. Planer does not one mill to correct depth. Drum deals as needed. Test loader hydraulics for flow and pressure. Check relief valve setting. Check motor. Check pump flow and rotation speed. Check in Flow diverter valve. Make sure Hi Flow is ON. Check cylinder block and valve block assembly. Check notor. Engage the loader front auxiliary. Engage the loader front auxiliary. Check pump drive and pump inlet. No hydraulic pressure. Valves damaged or corroded. Planer does not mill to correct Carbide bits worn depth. Decals misplaced or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.	External oil leaks.	Motor case pressure too high.	Check the case drain line.
Planer will not side shift. Damage to wiring or electrical connectors. Not enough hydraulic pressure. Planer housing seized or rusted in place. Drum motor with load does not turn. Internal hydraulic leaks. Loaded motor does not turn at normal speed. Drum motor does not rotate. Pront auxiliary hydraulics not engaged. Excessive hydraulic leaks. No hydraulic leaks. Check motor. Check wotor. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check pump flow and rotation speed. Check relief valve setting. Check cylinder and valve block assembly. No hydraulic flow. Check pump drive and pump inlet. Valves damaged or corroded. Planer does not mill to correct Carbide bits worn depth. Decals misplaced or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.		Defective assembly.	Check case drain line for blockage.
connectors. Not enough hydraulic pressure. Planer housing seized or rusted in place. Drum motor with load does not turn. Internal hydraulic leaks. Noisy motor (with no load). Loaded motor does not turn at normal speed. Pront auxiliary hydraulics not engaged. Excessive hydraulic leaks. Check cylinder block and valve block assembly. No hydraulic leaks. Check cylinder and valve block assembly. No hydraulic leaks. Check cylinder and valve block assembly. No hydraulic leaks. Check cylinder and valve block assembly. Check cylinder and valve block assembly. Replace the carbide bits. Planer does not mill to correct depth. Decals misplaced or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Replace with new depth decals.		Damaged O-rings.	Replace O-rings as needed.
Planer housing seized or rusted in place. Drum motor with load does not turn. Internal hydraulic leaks. Check motor. Noisy motor (with no load). Loaded motor does not turn at normal speed. Internal leaks. Check pump flow and rotation speed. Check in Flow diverter valve. Make sure Hi Flow is ON. Internal leaks. Check motor. Check pump flow and rotation speed. Check in Flow diverter valve. Make sure Hi Flow is ON. Check motor. Drum motor does not rotate. Front auxiliary hydraulics not engaged. Excessive hydraulic leaks. Check hoses and tubelines. Hydraulic leaks. Check cylinder and valve block assembly. Check hoses and tubelines. Hydraulic leaks. Check pump drive and pump inlet. No hydraulic pressure. Valves damaged or corroded. Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Install new ski pivot bushings.	Planer will not side shift.	I	See your Bobcat dealer.
Drum motor with load does not turn. Hydraulic pressure is low. Check relief valve setting.		Not enough hydraulic pressure.	Test loader hydraulics for flow and pressure.
turn. Internal hydraulic leaks. Check motor. Noisy motor (with no load). Humming; worn bearings. Replace bearings. Loaded motor does not turn at normal speed. Not enough hydraulic flow. Check pump flow and rotation speed. Check Flow diverter valve. Make sure Hi Flow is ON. Internal leaks. Check cylinder block and valve block assembly. Check motor. Drum motor does not rotate. Front auxiliary hydraulics not engaged. Excessive hydraulic leakage. Check hoses and tubelines. Hydraulic leaks. Check cylinder and valve block assembly. No hydraulic flow. Check pump drive and pump inlet. No hydraulic pressure. Valves damaged or corroded. Planer does not mill to correct depth. Decals misplaced or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.		_	Remove rust or material interference.
Noisy motor (with no load). Loaded motor does not turn at normal speed. Not enough hydraulic flow. Internal leaks. Check pump flow and rotation speed. Check in Flow diverter valve. Make sure Hi Flow is ON. Internal leaks. Check cylinder block and valve block assembly. Check motor. Drum motor does not rotate. Front auxiliary hydraulics not engaged. Excessive hydraulic leakage. Hydraulic leaks. Check cylinder and tubelines. Hydraulic leaks. Check cylinder and valve block assembly. No hydraulic flow. No hydraulic flow. No hydraulic pressure. Valves damaged or corroded. Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Install new ski pivot bushings.		Hydraulic pressure is low.	Check relief valve setting.
Loaded motor does not turn at normal speed. Not enough hydraulic flow. Check pump flow and rotation speed. Check hormal speed.		Internal hydraulic leaks.	Check motor.
normal speed. Flow diverter valve. Make sure Hi Flow is ON.	Noisy motor (with no load).	Humming; worn bearings.	Replace bearings.
Drum motor does not rotate. Front auxiliary hydraulics not engaged. Excessive hydraulic leakage. Hydraulic leaks. No hydraulic flow. No hydraulic pressure. Planer does not mill to correct depth. Decals misplaced or missing. Check motor. Check motor. Engage the loader front auxiliary. Engage the loader front auxiliary. Check hoses and tubelines. Check cylinder and valve block assembly. Valves damaged or corroded. Replace the carbide bits. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.		Not enough hydraulic flow.	Check pump flow and rotation speed. Check Hi Flow diverter valve. Make sure Hi Flow is ON.
Drum motor does not rotate. Front auxiliary hydraulics not engaged. Excessive hydraulic leakage. Hydraulic leaks. No hydraulic flow. No hydraulic pressure. Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Engage the loader front auxiliary. Check hoses and tubelines. Check cylinder and valve block assembly. Check pump drive and pump inlet. Valves damaged or corroded. Replace the carbide bits. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.		Internal leaks.	Check cylinder block and valve block assembly.
engaged. Excessive hydraulic leakage. Check hoses and tubelines. Hydraulic leaks. Check cylinder and valve block assembly. No hydraulic flow. Check pump drive and pump inlet. No hydraulic pressure. Valves damaged or corroded. Planer does not mill to correct depth. Carbide bits worn depth. Replace the carbide bits. Decals misplaced or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.			Check motor.
Hydraulic leaks. No hydraulic flow. No hydraulic pressure. Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Check cylinder and valve block assembly. Check pump drive and pump inlet. Valves damaged or corroded. Replace the carbide bits. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.	Drum motor does not rotate.	, , ,	Engage the loader front auxiliary.
No hydraulic flow. No hydraulic pressure. Valves damaged or corroded. Planer does not mill to correct depth. Carbide bits worn depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Install new ski pivot bushings.		Excessive hydraulic leakage.	Check hoses and tubelines.
No hydraulic pressure. Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. No hydraulic pressure. Valves damaged or corroded. Replace the carbide bits. Replace with new depth decals. Install new ski pivot bushings.		Hydraulic leaks.	Check cylinder and valve block assembly.
Planer does not mill to correct depth. Decals misplaced or missing. Ski pivot bushings worn or missing. Replace the carbide bits. Replace with new depth decals. Install new ski pivot bushings.		No hydraulic flow.	Check pump drive and pump inlet.
depth. Decals misplaced or missing. Replace with new depth decals. Ski pivot bushings worn or missing. Install new ski pivot bushings.		No hydraulic pressure.	Valves damaged or corroded.
Ski pivot bushings worn or missing. Install new ski pivot bushings.		Carbide bits worn depth.	Replace the carbide bits.
		Decals misplaced or missing.	Replace with new depth decals.
Ski worn. Replace ski		Ski pivot bushings worn or missing.	Install new ski pivot bushings.
I Topiaco om		Ski worn.	Replace ski.
Planer function(s) will not operate. Valve contamination. Check internal valve orifices.	Planer function(s) will not operate.	Valve contamination.	Check internal valve orifices.

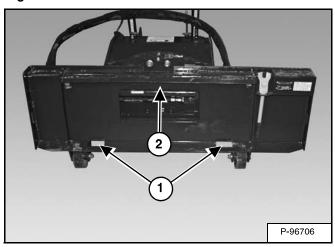
Dealer Copy -- Not for Resale



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Attachment Mounting Frame

Figure 10-20-1



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

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

Bob-Tach

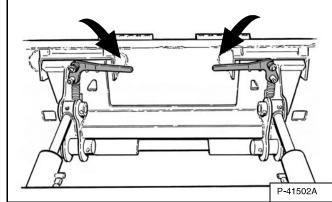
Hand Lever Bob-Tach

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.

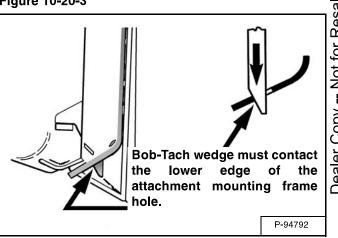
W-2715-0208



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 10-20-2] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-20-

Figure 10-20-3



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-3].

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 planer. (See the loader'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.

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

DAILY INSPECTION (CONT'D)

Bob-Tach (Cont'd)

Power Bob-Tach



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 10-20-4

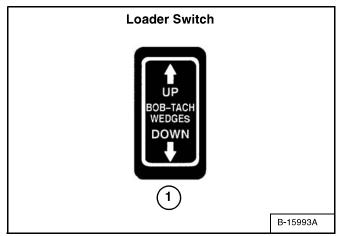
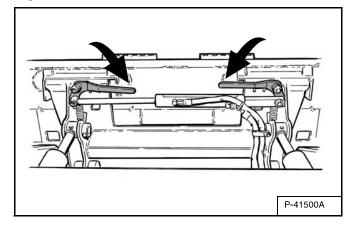
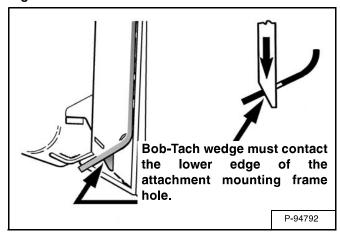


Figure 10-20-5



Push and <u>hold</u> the BOB-TACH "WEDGES DOWN" switch (Item 1) [Figure 10-20-4] until the levers are fully engaged in the locked position [Figure 10-20-5] (wedges fully extended through the attachment mounting frame holes).

Figure 10-20-6



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-6].

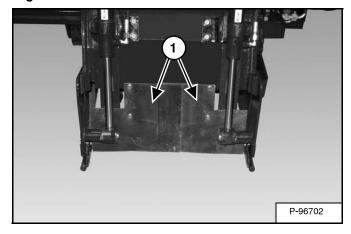
NOTE: If the wedge does not contact the lower edge of the hole, the attachment will be loose and can come off the Bob-Tach.

Inspect the mounting frame on the planer. (See the loader'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.

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

Rubber Shield Inspection

Figure 10-20-7



Make sure the rubber shield(s) (Item 1) [Figure 10-20-7] are in good condition to provide protection from flying debris.