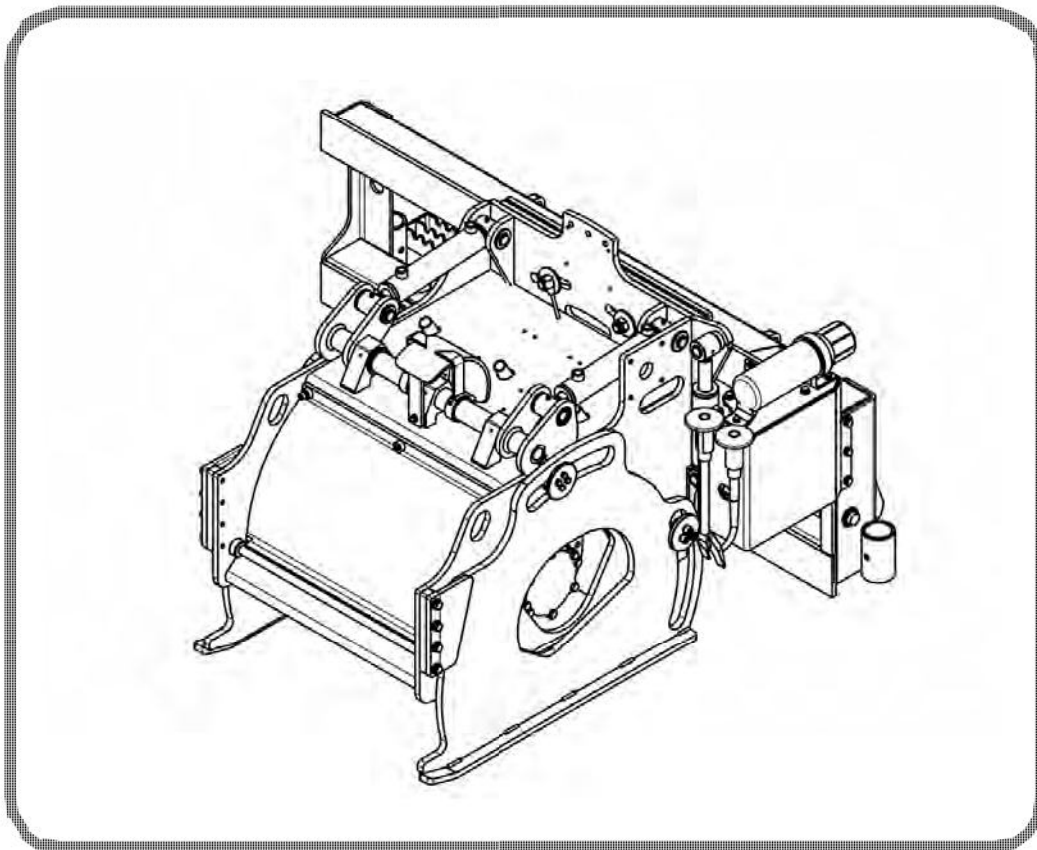




Bobcat®

Service Manual Planer

(MI Planer 18PSL) S/N AZTD00101 & Above
(MI Planer 24PSL) S/N AZTG00101 & Above



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MAINTENANCE SAFETY



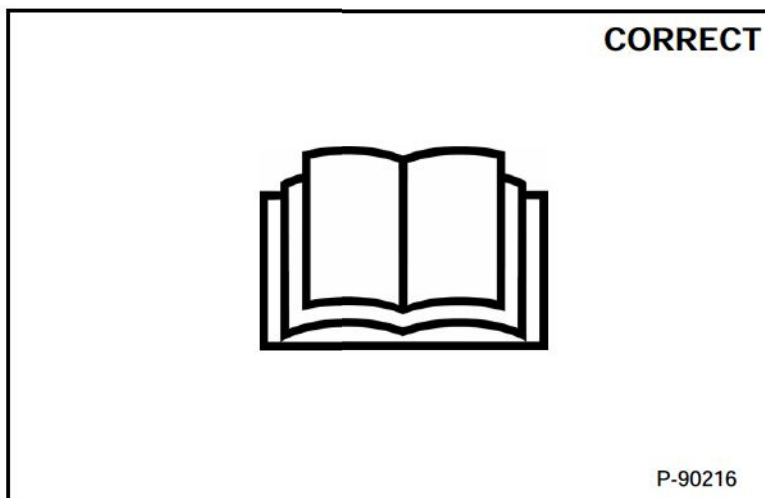
WARNING









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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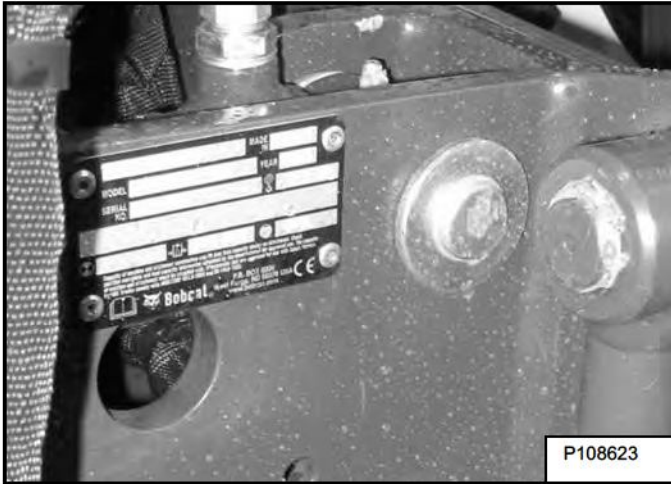
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SERIAL NUMBER LOCATION

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

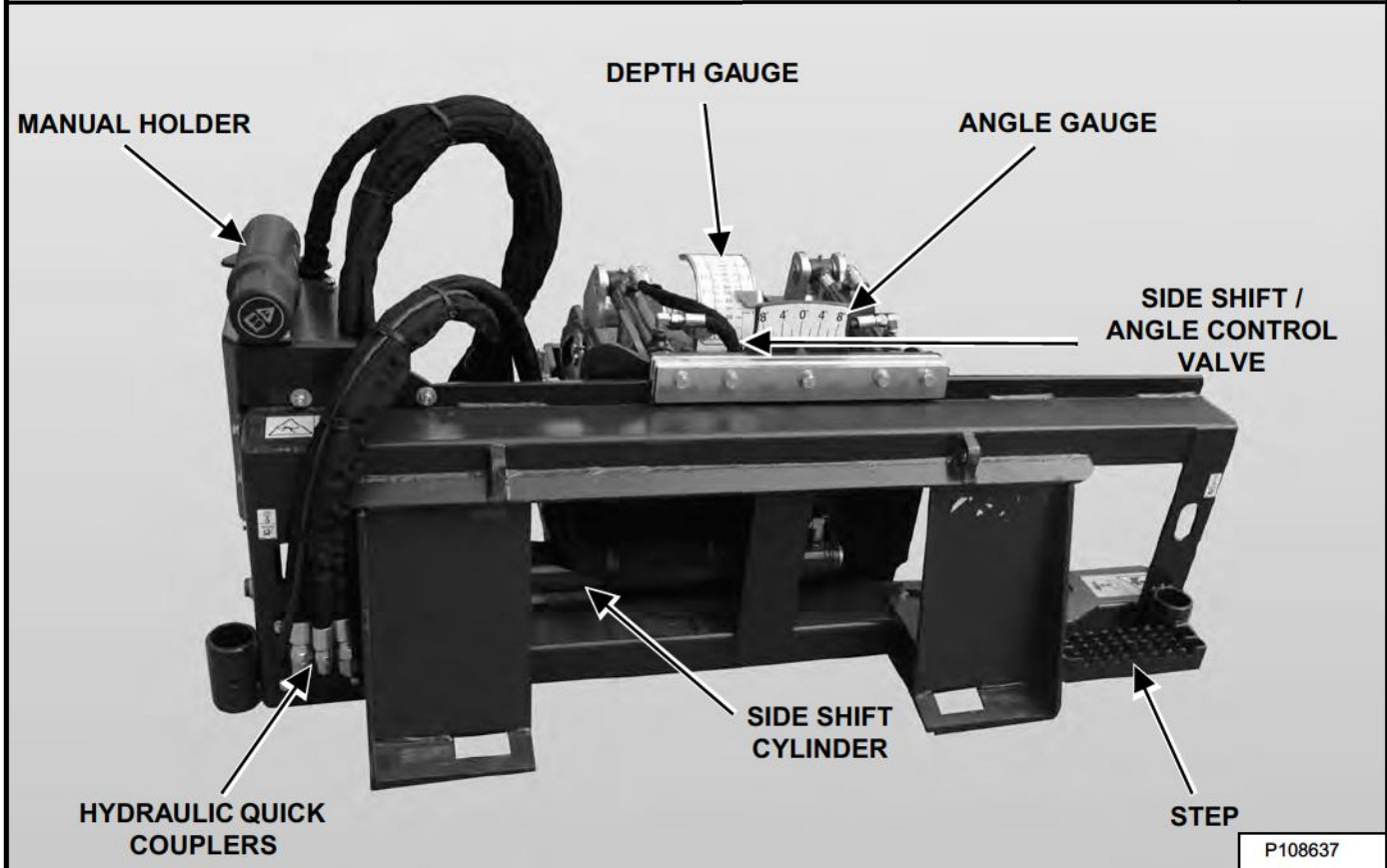
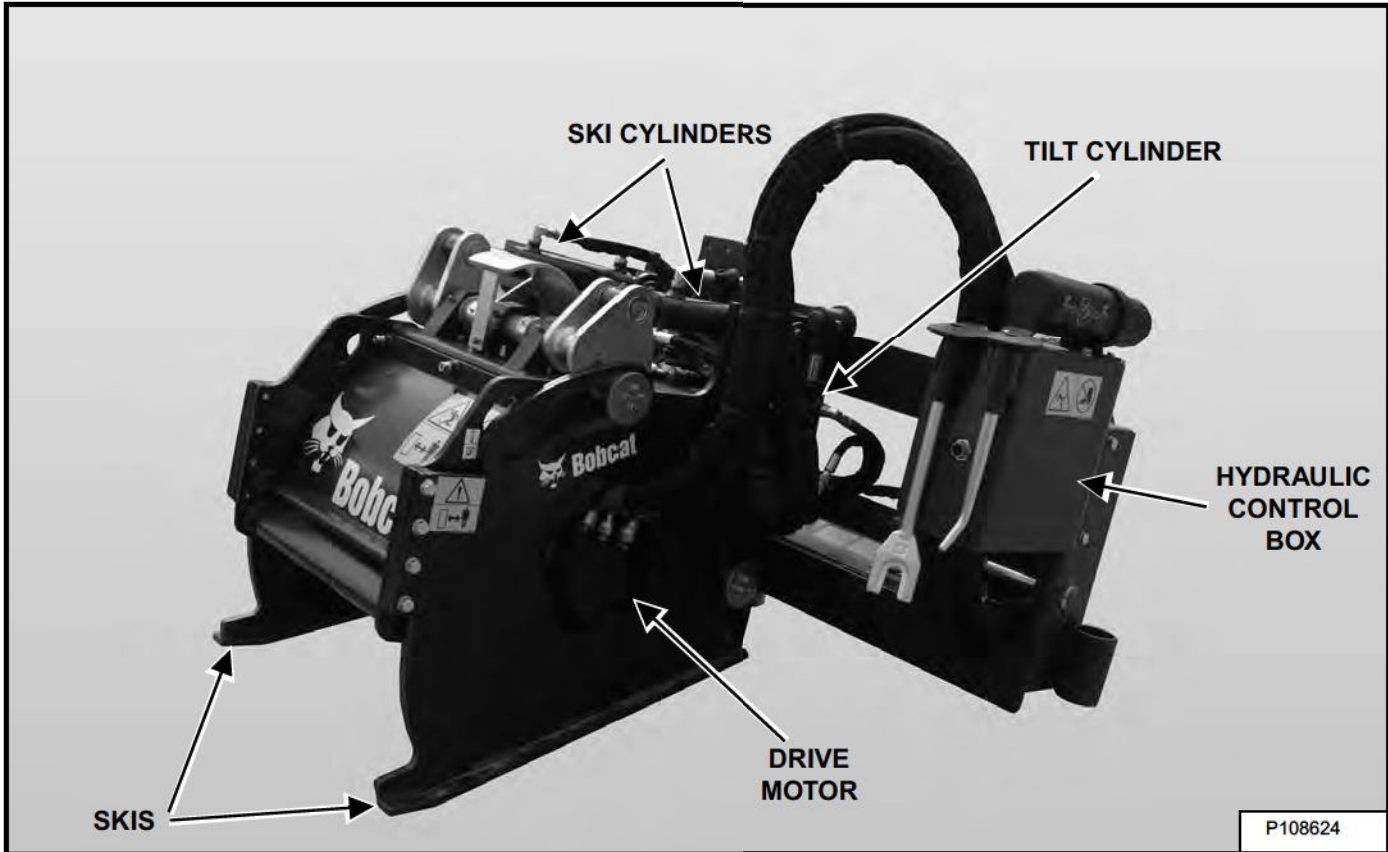
Figure 2

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.

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ATTACHMENT IDENTIFICATION

MI Planer 18PSL And 24PSL



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SAFETY AND MAINTENANCE

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TROUBLESHOOTING

Chart

 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;">W-2003-0807</p>
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If the attachment is not working correctly, check the hydraulic system of the loader 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 loader to check the hydraulic pump output, relief valve setting and tube lines to check flow and pressure. (See the loader'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.

PROBLEM	CAUSE	CORRECTION
Planer cut is inadequate.	Carbide bits worn or missing.	Replace the carbide bits.
Noisy motor (with load).	Vibration; loose bolts.	Check torque.
External oil leaks.	Motor case pressure too high.	Check the case drain line and quick couplers.
	Defective assembly.	Check case drain line for blockage.
	Damaged O-rings.	Replace O-rings as needed.
Planer will not side shift.	Valve lever not in the side shift position.	Move valve lever to side shift position.
	Not enough hydraulic pressure.	Test loader hydraulics for flow and pressure.
Planer will not angle.	Valve lever not in the plane angle position.	Move valve lever to planer angle position.
	Not enough hydraulic pressure.	Test loader hydraulics for flow and pressure.
Drum motor with load does not turn.	Hydraulic pressure is low.	Check relief valve setting.
	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.
	Internal leaks.	Check cylinder block and valve block assembly.
		Check motor.
Drum motor does not rotate.	Front auxiliary hydraulics not engaged.	Engage the loader front auxiliary.
	Couplers are reversed.	Switch couplers.
	Excessive hydraulic leakage.	Check hoses and motor block.
	Hydraulic leaks.	Check cylinder block and valve block assembly.
	No hydraulic flow.	Check pump drive and pump inlet.
	No hydraulic pressure.	Valves damaged or corroded.
	Debris in orifice.	Clean orifice and / or valve body.
Planer does not mill to correct depth.	Carbide bits worn.	Replace the carbide bits.
	Depth decals misplaced or missing.	Replace with new depth decals.
	Skis worn.	Replace skis.

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INSPECTION

Bob-Tach™

Hand Lever Bob-Tach

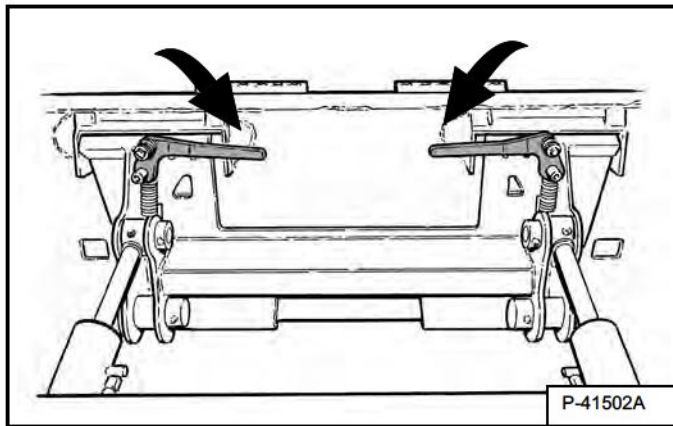


AVOID INJURY OR DEATH

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.

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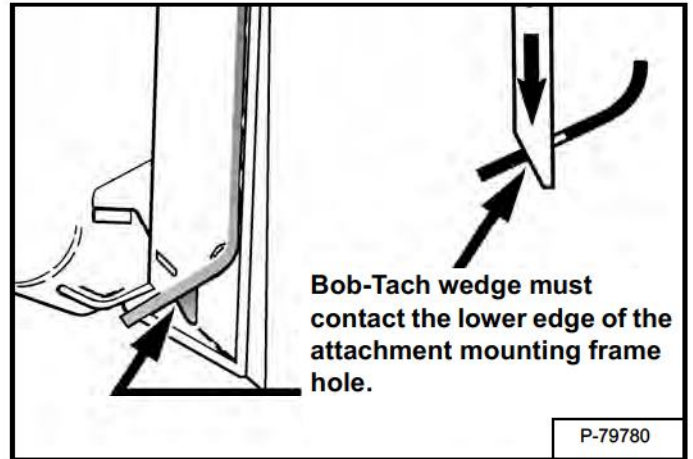
Figure 10-20-1



Push down on the Bob-Tach™ levers until they are fully engaged in the locked position [Figure 10-20-1] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-20-1].

Figure 10-20-2



Bob-Tach wedge must contact the lower edge of the attachment mounting frame hole.

The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-2].

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 loader'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 loader's Operation & Maintenance Manual for the correct procedure.)

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INSPECTION (CONT'D)

Bob-Tach™ (Cont'd)

Power Bob-Tach

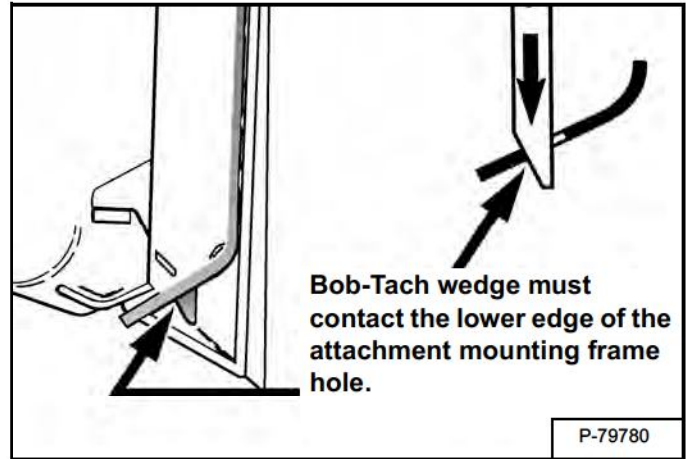
! WARNING

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.

W-2715-0208

Figure 10-20-5



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-5].

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 loader'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 loader's Operation & Maintenance Manual for the correct procedure.)

Figure 10-20-3

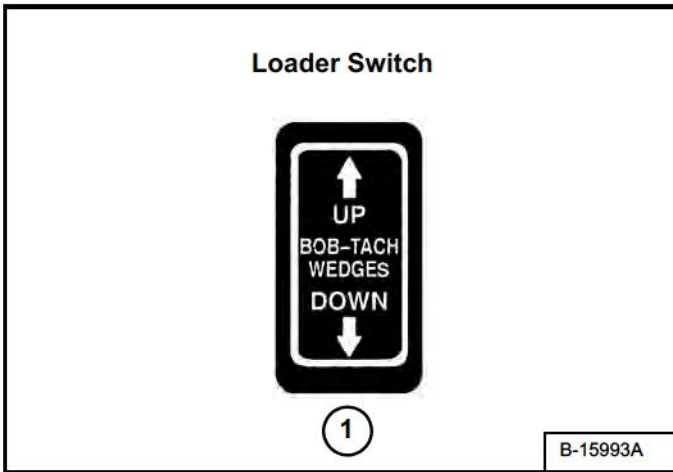
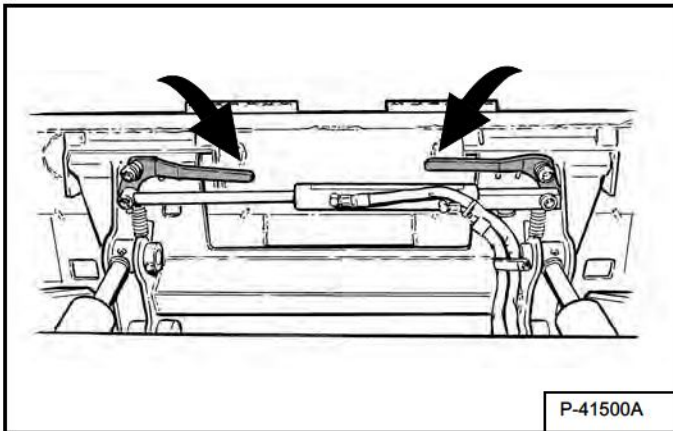


Figure 10-20-4

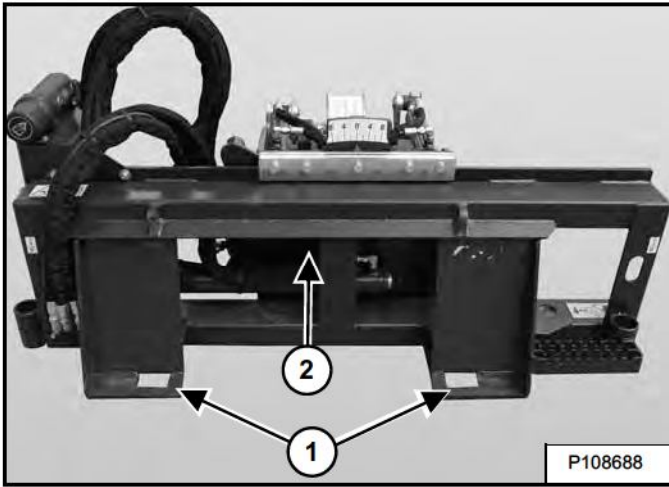


Push and hold the BOB-TACH "WEDGES DOWN" switch (Item 1) [Figure 10-20-3] until the levers are fully engaged in the locked position [Figure 10-20-4] (wedges fully extended through the attachment mounting frame holes).

INSPECTION (CONT'D)

Attachment Mounting Frame

Figure 10-20-6



Inspect the Bob-Tach wedge mounts (Item 1), mounting flange (Item 2) [Figure 10-20-6] and all welds on the planer for wear and damage each time the planer is removed from the loader.

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

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