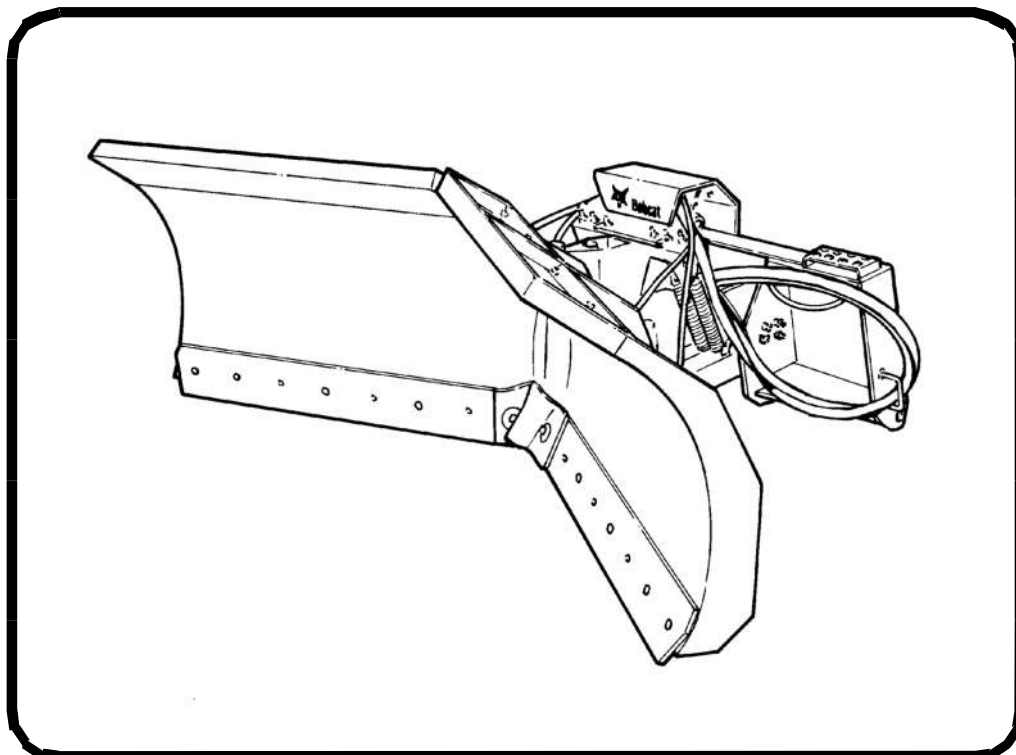




Service Manual

V-Blade

(V-Blade 60 Man) S/N A01800101 & Above
(V-Blade 60) S/N 083800101 & Above
(V-Blade 60 7-Pin) S/N 084300101 & Above
(V-Blade 72) S/N 083900101 & Above
(V-Blade 72 Man) S/N A00900101 & Above
(V-Blade 84) S/N 084000101 & Above
(V-Blade 96) S/N 084100101 & Above
(V-Blade 108) S/N 084200101 & Above



MAINTENANCE SAFETY



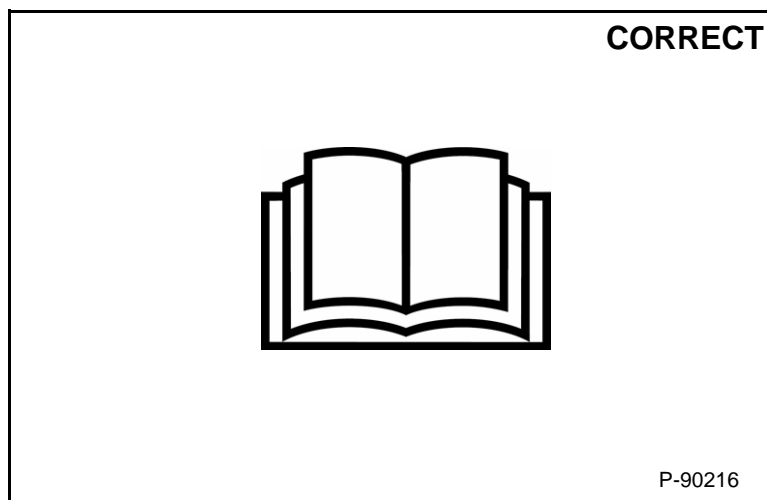
WARNING









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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CONTENTS

SAFETY & MAINTENANCE	10-01
HYDRAULIC SYSTEM	20-01
MAINFRAME	30-01
SPECIFICATIONS	SPEC-01
ALPHABETICAL INDEX	INDEX-01



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FOREWORD

SERIAL NUMBER LOCATION	1-7
Attachment Serial Number	1-7
DELIVERY REPORT	1-7
ATTACHMENT IDENTIFICATION	1-8
ATTACHMENT SIGNS (DECALS)	1-9



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SERIAL NUMBER LOCATION

Attachment Serial Number

Figure 1

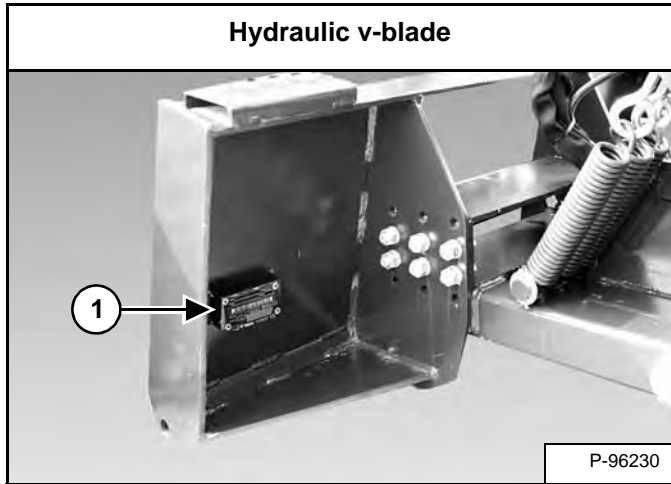
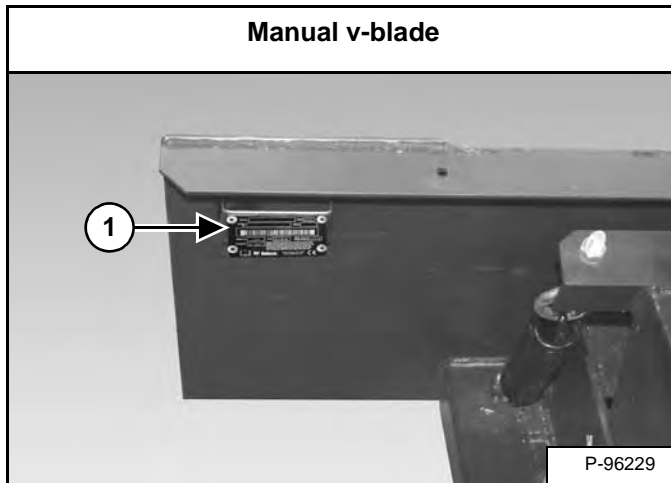


Figure 2



Always use the serial number (Item 1) **[Figure 1]** and **[Figure 2]** of the v-blade when requesting service information or when ordering parts. Earlier 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

DELIVERY REPORT

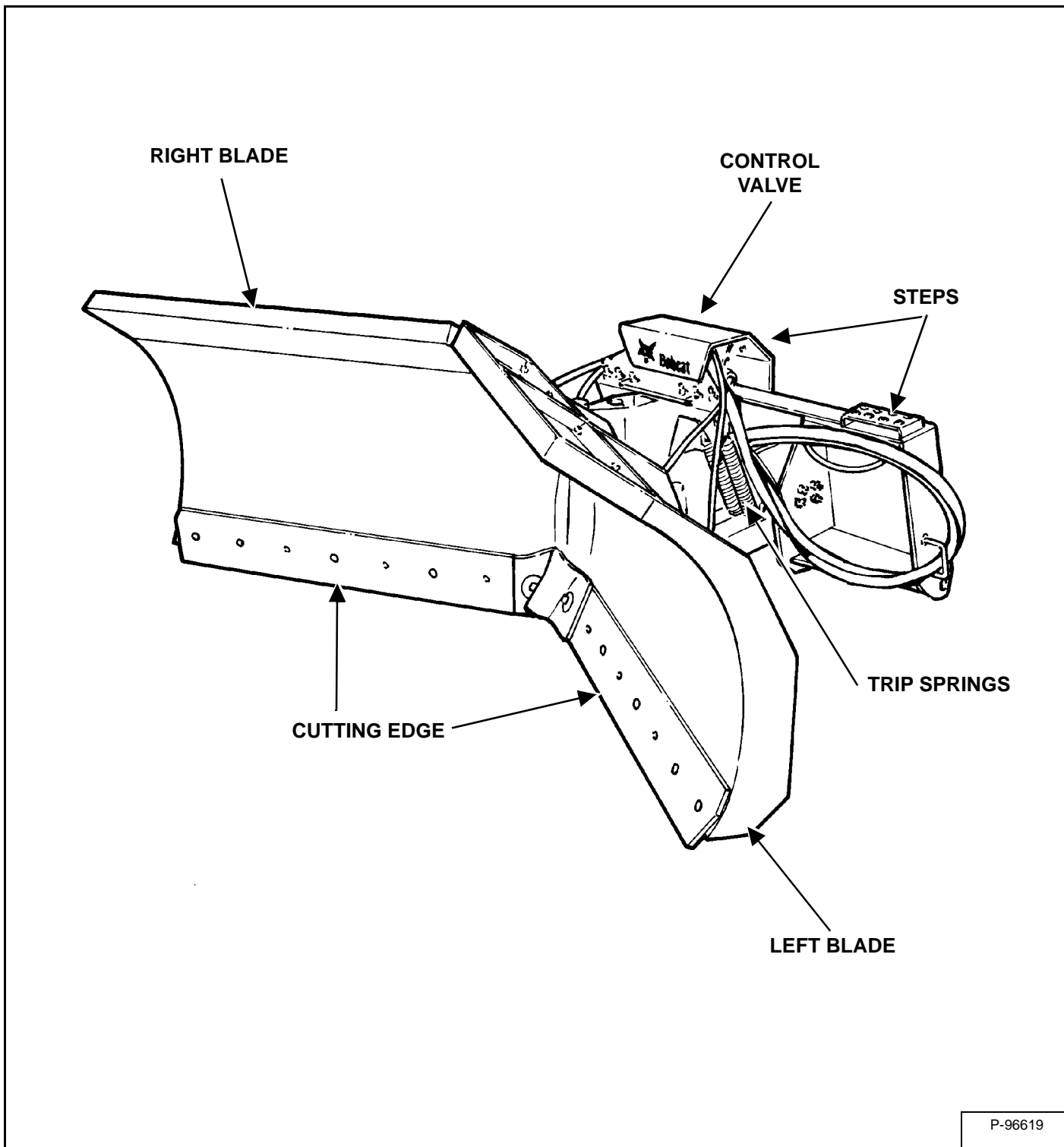
WARNING

P-20022

The image shows a 'DELIVERY REPORT' form with a 'WARNING' section. The form contains several lines of text for recording information, including a section for the operator's name and signature. The form is presented in a simplified, schematic style.

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

ATTACHMENT IDENTIFICATION

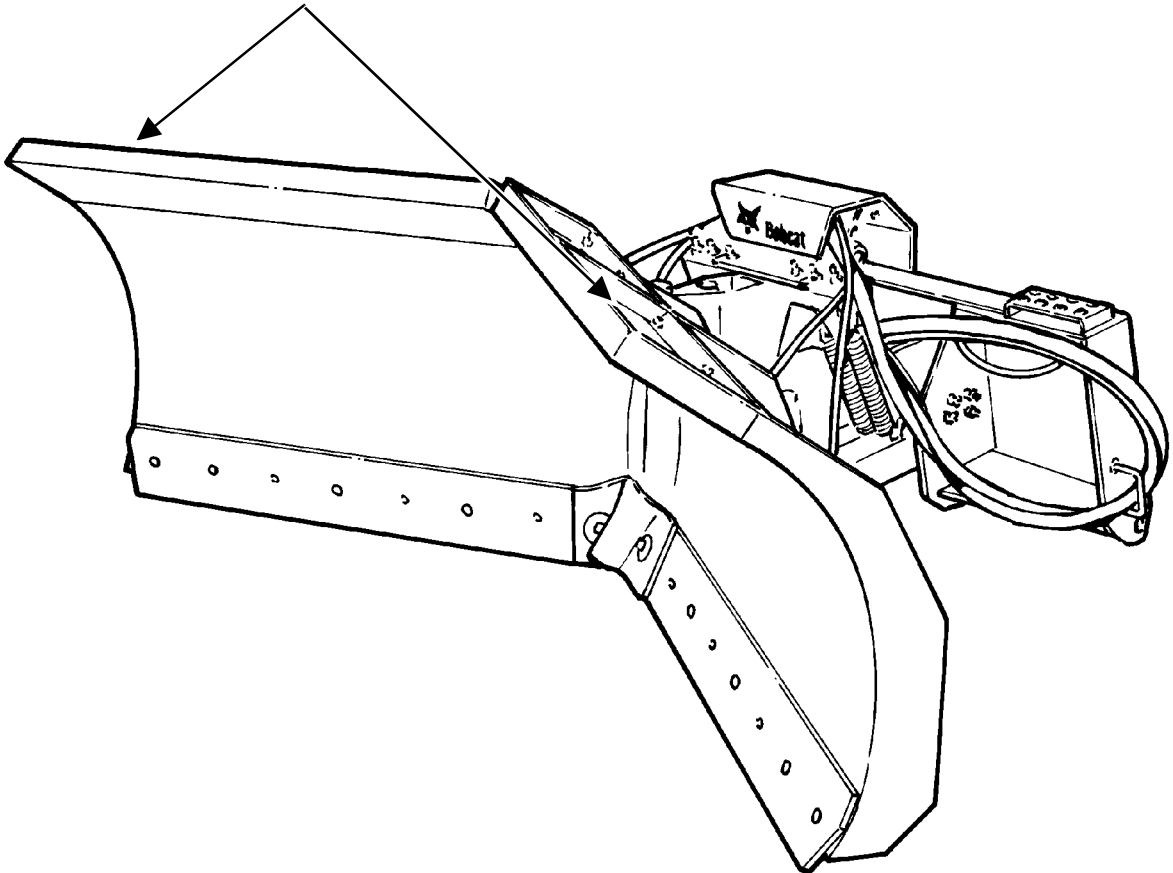


ATTACHMENT SIGNS (DECALS)

Follow the instructions on all the Attachment Signs (Decals) that are on the attachment. Replace any damaged attachment signs and be sure they are in the correct locations. Attachment signs are available from your Bobcat attachment dealer.



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P-96619



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SAFETY & MAINTENANCE


TROUBLESHOOTING	10-10-1
Chart	10-10-1
DAILY INSPECTION	10-20-1
Attachment Mounting Frame	10-20-1
Bob-Tach	10-20-2
LUBRICATING THE ATTACHMENT	10-30-1
Lubrication Locations	10-30-1
CUTTING EDGE	10-40-1
Removal And Installation	10-40-1
SKID SHOE	10-50-1
Removal And Installation	10-50-1
Skid Shoe Height Adjustment	10-50-2
TRIP SPRINGS	10-60-1
Removal And Installation	10-60-1
Trip Springs Adjustment	10-60-2



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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-2003-0903</p>
--	--

If the v-blade is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the v-blade. V-Blade 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 v-blade.

PROBLEM	CAUSE	CORRECTION
Blades will not angle.	Auxiliary hydraulics not engaged.	Engage auxiliary hydraulics.
	Hydraulic connections not made.	Connect hydraulics.
	Electrical connection not made.	Connect electrical.
Blade trips too easy.	Trip springs loose.	Tighten trip springs.
Blade trips hard.	Trip springs too tight.	Loosen trip springs.

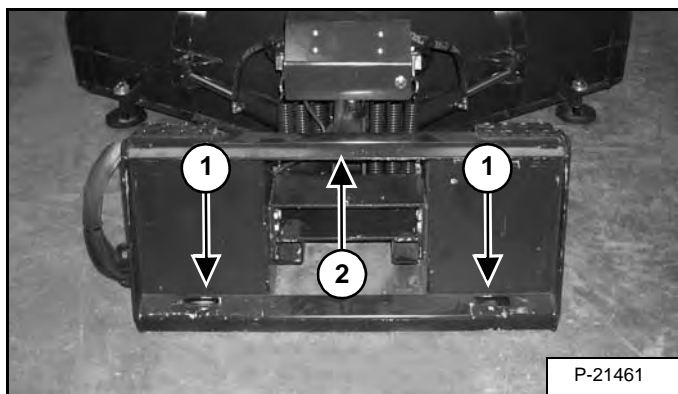


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DAILY INSPECTION

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 v-blade mount for wear and damage each time the v-blade is removed from the machine.

DAILY INSPECTION (CONT'D)

Bob-Tach

Hand Lever Bob-Tach

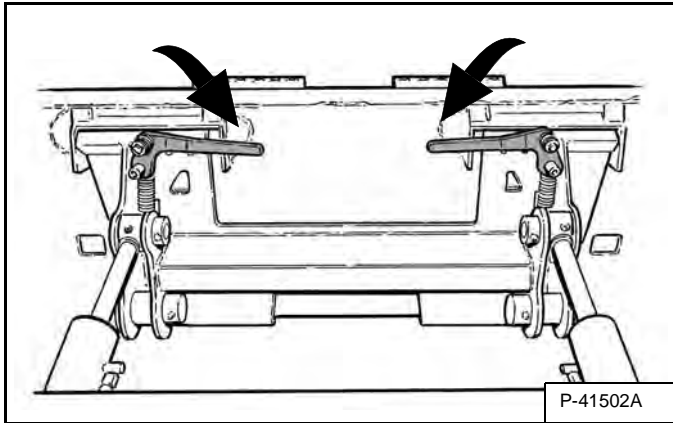
! WARNING

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

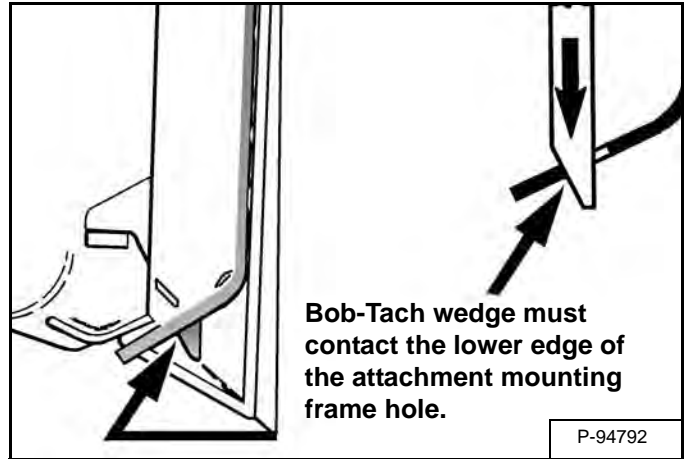
Figure 10-20-2



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 10-20-2].

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 v-blade. (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.)

Dear

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