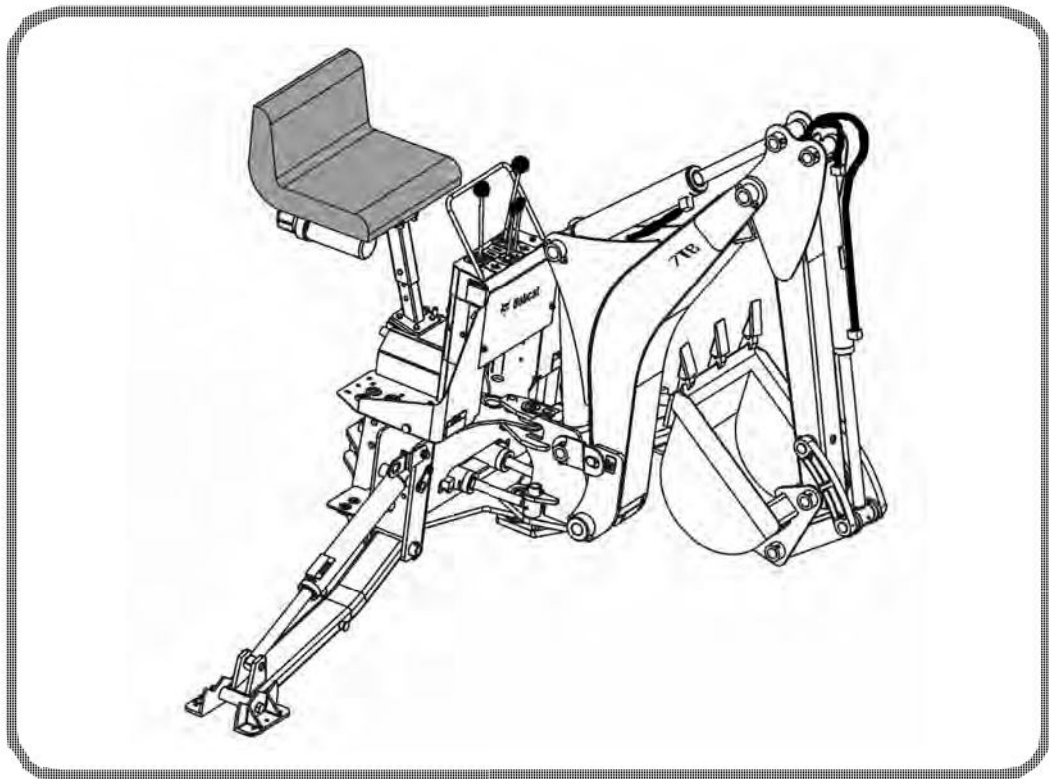




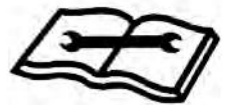
Bobcat®

Service Manual Tractor Backhoe

(6TB) S/N A91400101 & Above
(7TB) S/N AE3H00101 & Above
(8TB) S/N AE3L00101 & Above



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MAINTENANCE SAFETY



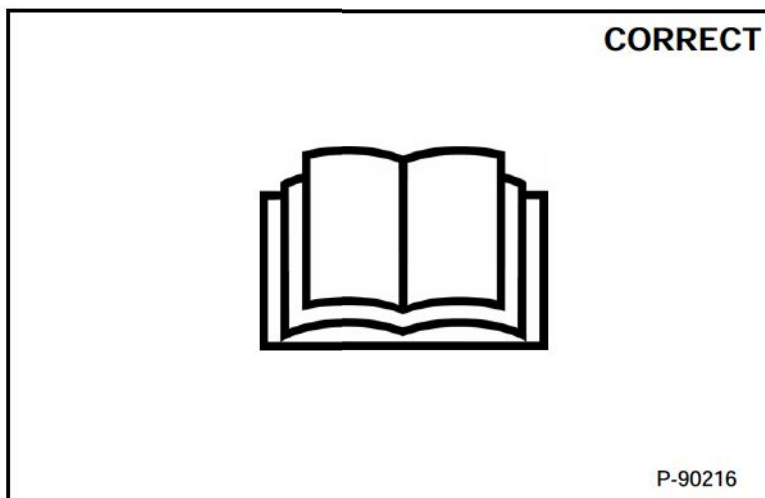
WARNING









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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MSW30-0409

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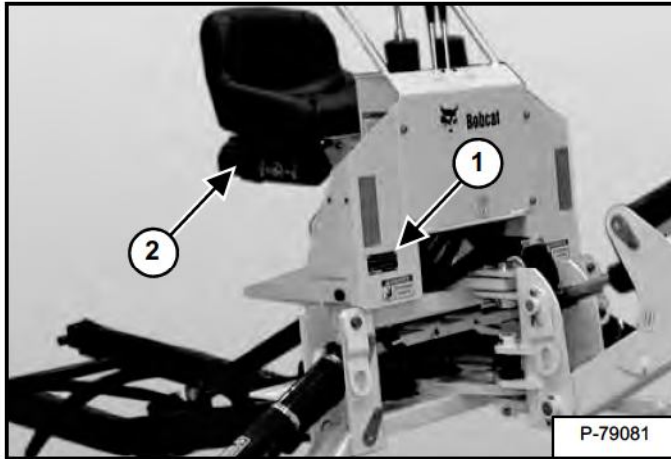
FOREWORD

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SERIAL NUMBER LOCATION

Attachment Serial Number

Figure 1



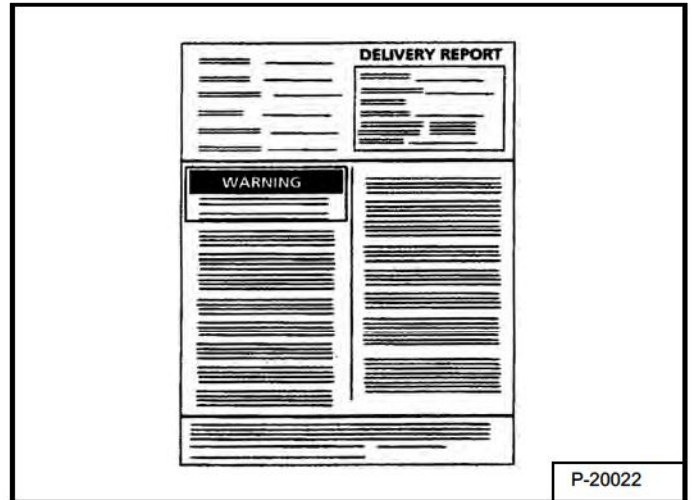
Always use the serial number (Item 1) [Figure 1] of the backhoe when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

Manual Storage

The manual storage container (Item 2) [Figure 1] is located under the right side of the backhoe operator's seat.

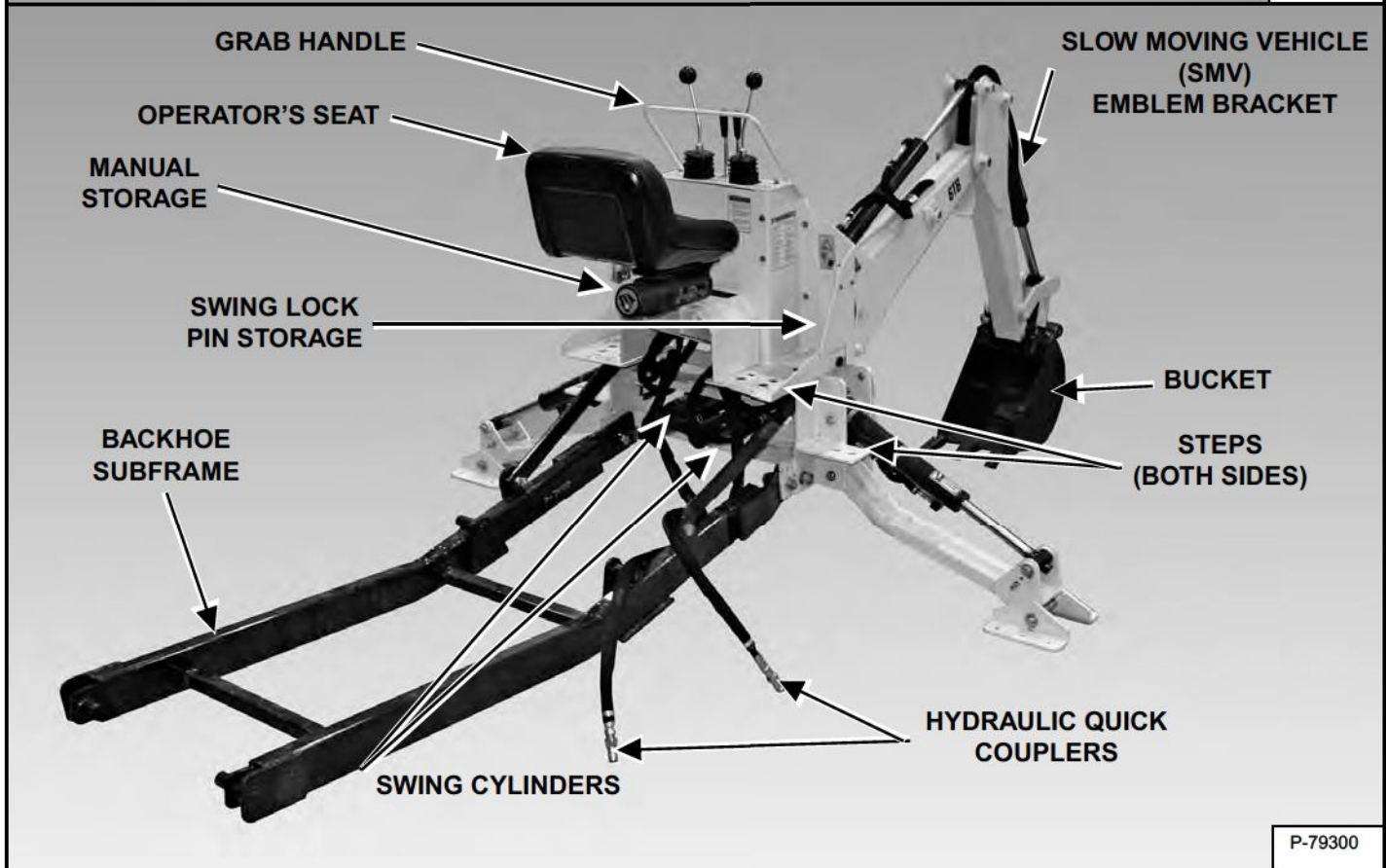
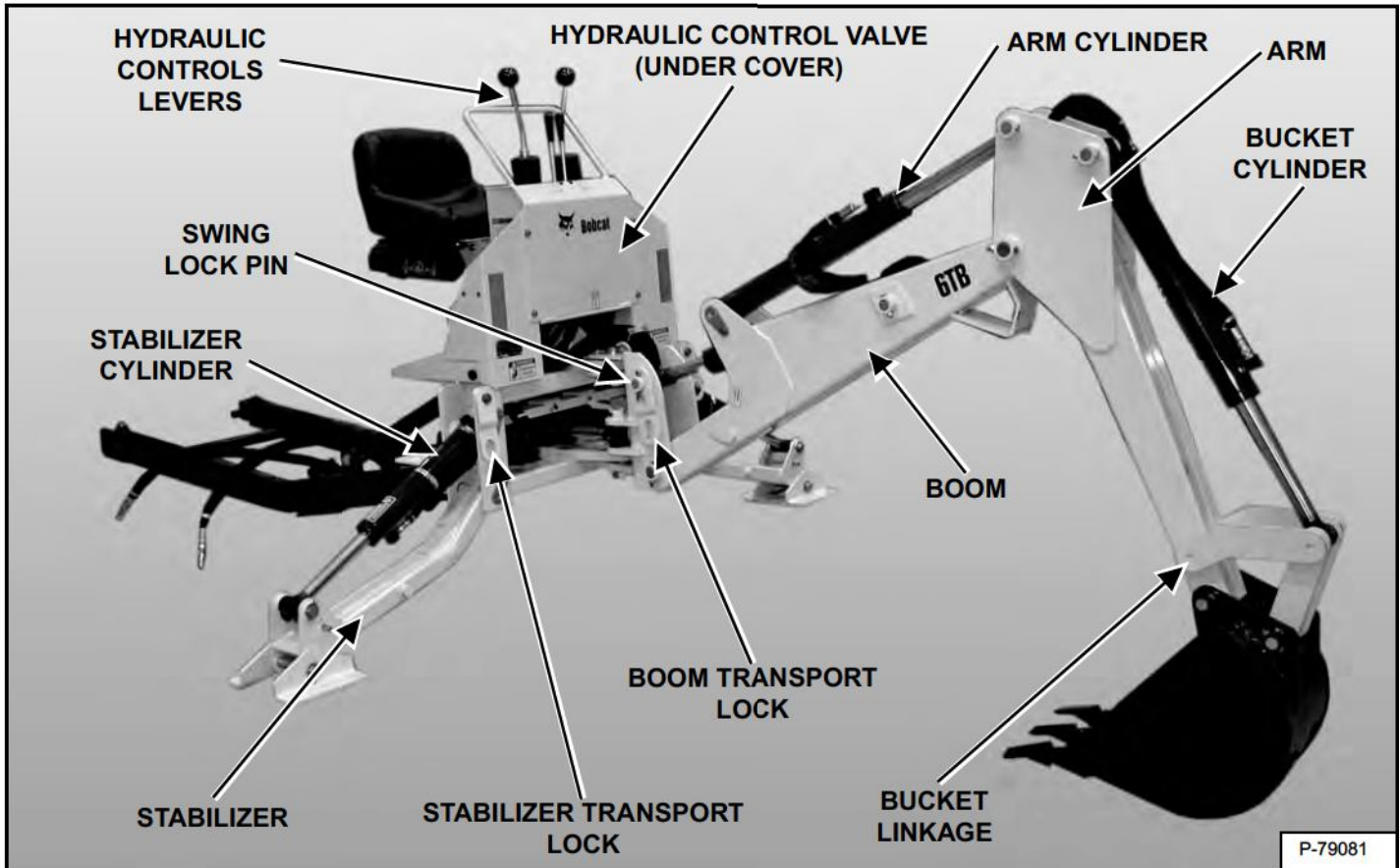
DELIVERY REPORT

Figure 2



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

ATTACHMENT IDENTIFICATION




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SAFETY & 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-2003-0903</p>
--	--

If the tractor backhoe is not working correctly, check the hydraulic system of the compact tractor thoroughly before making any repairs on the tractor backhoe. Tractor backhoe 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 compact tractor'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 tractor backhoe.

TROUBLESHOOTING THE BOBCAT TRACTOR BACKHOE		
PROBLEM	CAUSE	CORRECTION
Loss of hydraulic action.	The auxiliary hydraulic control on the compact tractor is not engaged.	Activate the auxiliary hydraulic control on the compact tractor.
	The quick coupler hoses on the backhoe are not installed correctly on the compact tractor.	Reverse the quick couplers on the compact tractor or reverse the flow by pushing the auxiliary flow lever the opposite direction.
	Hydraulic fluid is low.	*Add fluid of the correct type.
	Air in the hydraulic system.	Operate all the cylinders except the swing cylinder as far as possible both ways and hold the controls for several seconds after the cylinders reached the end strokes.
No cushion in swing cylinder.	Air in the cylinder caused by a leak or repair of the swing cylinder.	Repair as needed. Remove air from the swing cylinder.
*See the Compact Tractor's Operation & Maintenance Manual, Specification Section for the correct type of fluid to use.		

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LUBRICATING THE ATTACHMENT

Lubrication Locations (6TB)

WARNING

AVOID INJURY OR DEATH

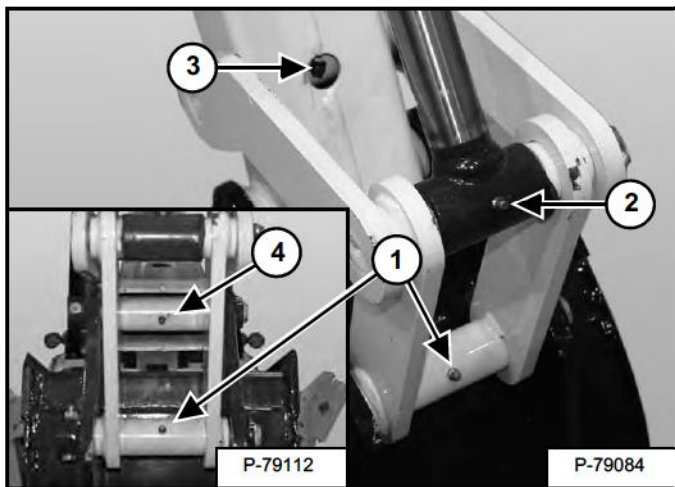
Always lower the backhoe boom, arm, bucket and stabilizers to the ground (or install the swing lock pin and engage the boom and stabilizer transport locks) and stop the compact tractor engine before making any adjustments on the backhoe or compact tractor.

W-2685-0208

Use a good quality lithium based multi-purpose grease. Lubricate the fittings until extra grease shows.

Lubricate the backhoe every **8 HOURS** of operation:

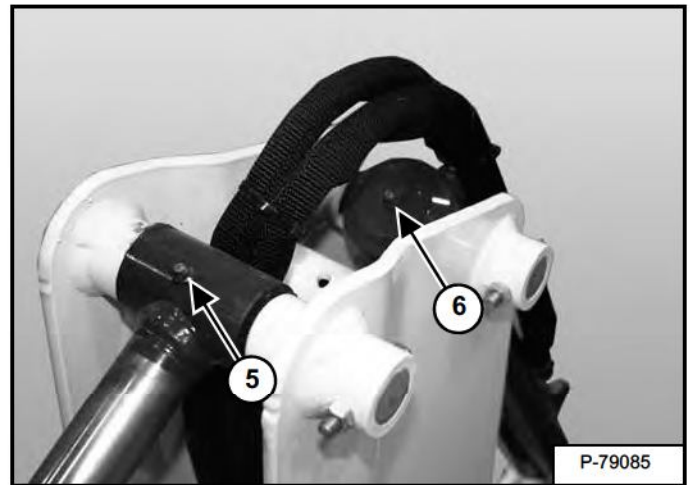
Figure 10-20-1



Lubricate the following locations [Figure 10-20-1].

1. Lower Bucket Link.
2. Bucket Cylinder Rod End.
3. Upper Bucket Link.
4. Bucket Pivot Pin.

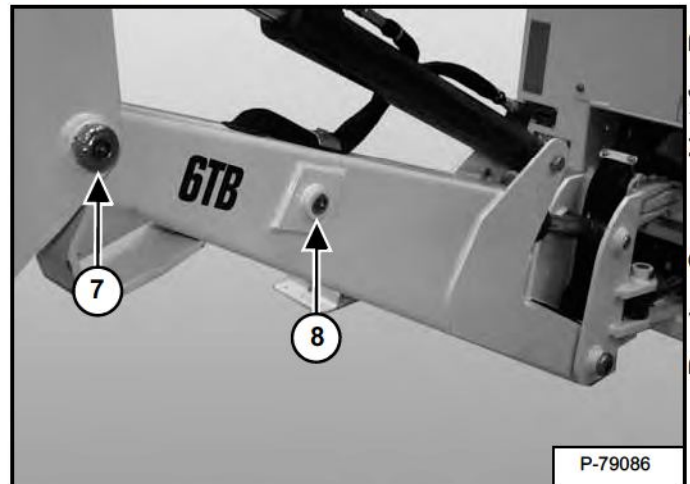
Figure 10-20-2



Lubricate the following locations [Figure 10-20-2].

5. Arm Cylinder Rod End.
6. Bucket Cylinder Base End.

Figure 10-20-3



Lubricate the following locations [Figure 10-20-3].

7. Boom Pivot Pin.
8. Boom Cylinder Base End.

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