



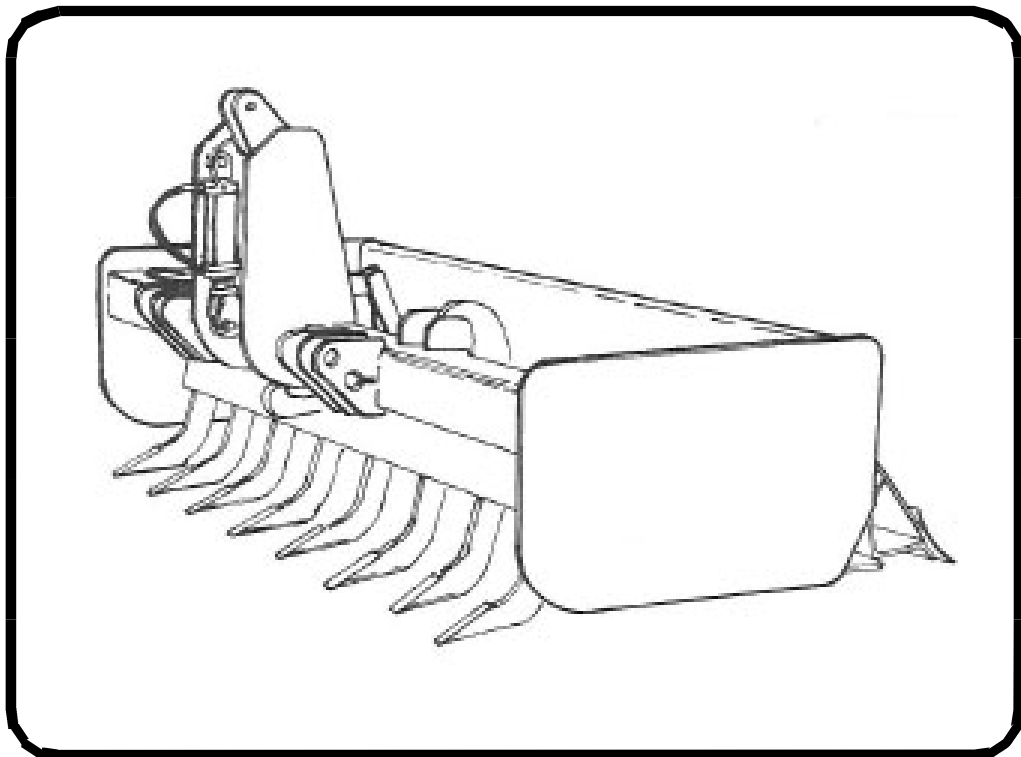
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# Service Manual

## Heavy Duty Box Blade

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**(BLADE 3HDBB72) - S/N AF4N00101 & Above**  
**(BLADE 3HDBB84) - S/N AF4P00101 & 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-2003-0903











**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

CORRECT



B-10731a

-  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.



**Bobcat®**

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### REFERENCE INFORMATION

Write the correct information for YOUR heavy duty box blade in the spaces below.  
Always use these numbers when referring to your heavy duty box blade.

Heavy Duty Box Blade Serial Number

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NOTES:

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YOUR BOBCAT® DEALER:

ADDRESS:

PHONE:

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Bobcat Company  
P.O. Box 128  
Gwinner, ND 58040-0128

Bobcat Company Europe  
Drève Richelle 167  
B-1410 WATERLOO  
Belgium

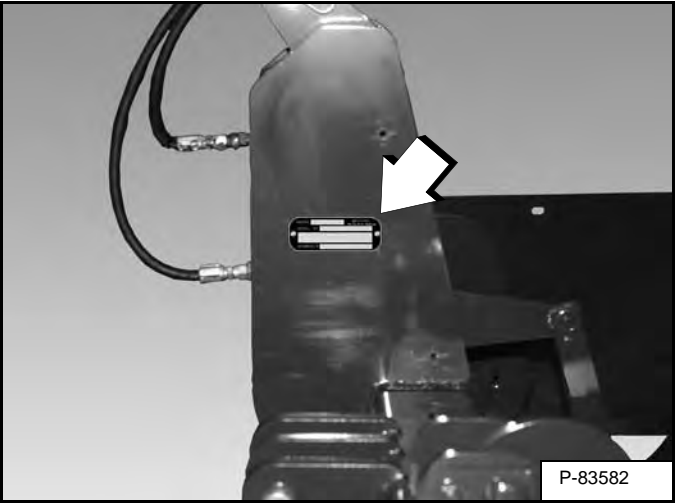


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SERIAL NUMBER LOCATION

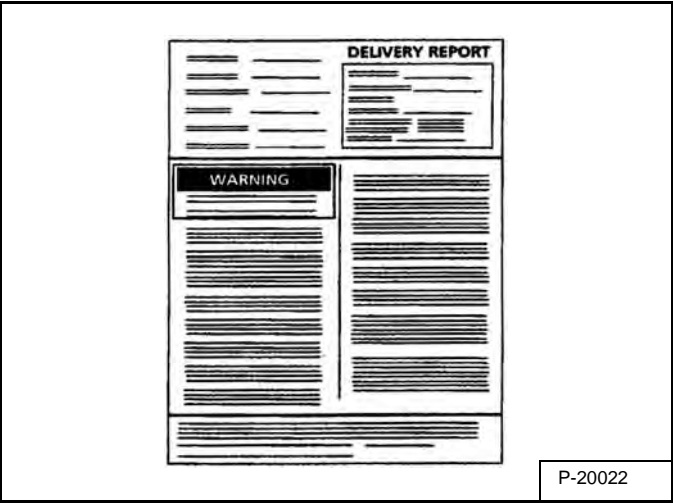
Figure 1



Always use the serial number of the heavy duty box blade 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 [Figure 1].

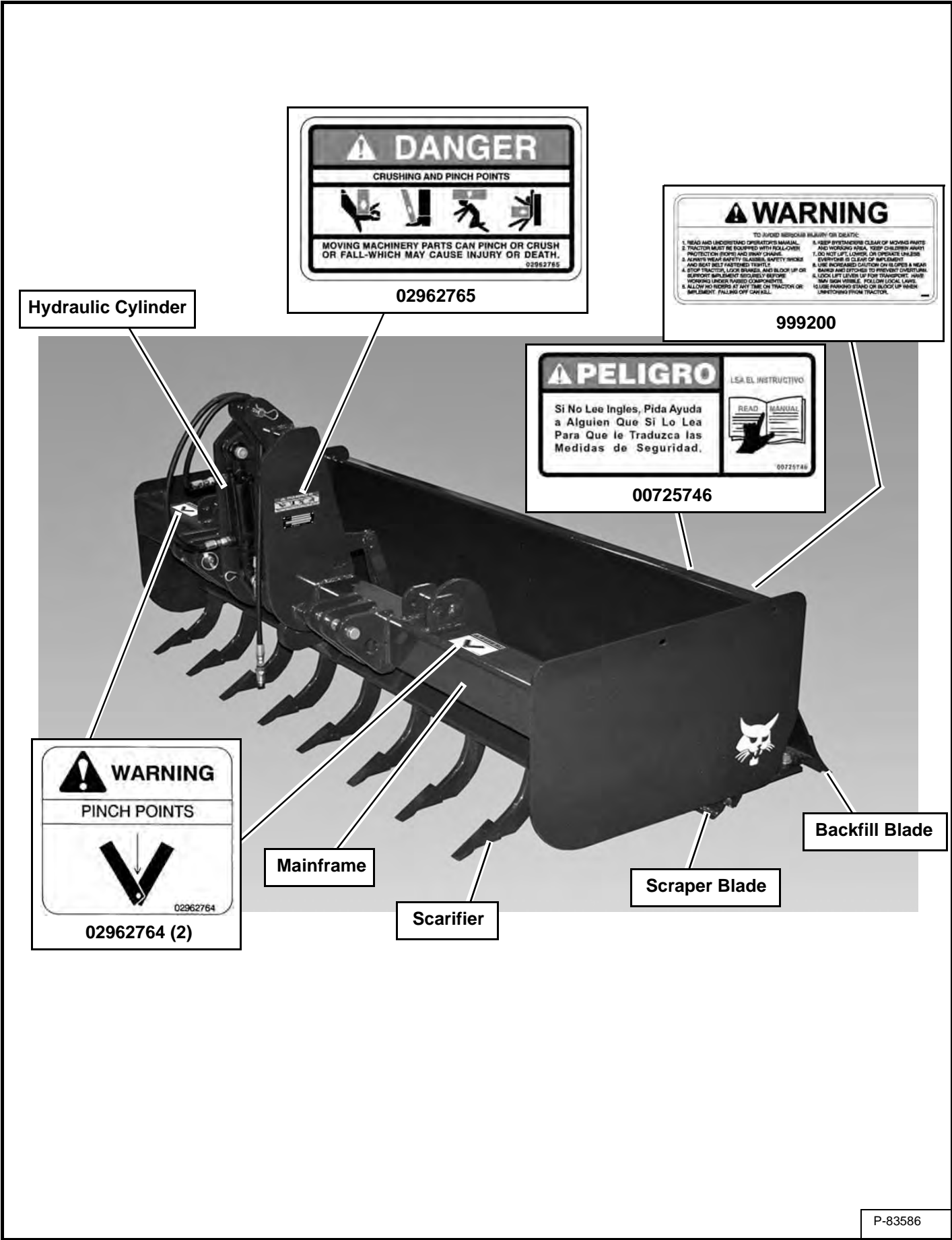
DELIVERY REPORT

Figure 2



The delivery report must be filled out by the dealer and signed by the owner or operator when the heavy duty box blade is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 2].

IDENTIFICATION AND MACHINE SIGNS (DECALS)



**PREVENTIVE MAINTENANCE**

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## TROUBLESHOOTING

### Chart


HEAVY DUTY BOX BLADE TROUBLESHOOTING GUIDE		
PROBLEM	CAUSE	CORRECTION
Bent moldboard	Damaged by hitting hidden objects	Slow speed down if soil conditions are unknown
Cutting blade does not penetrate soil	Cutting edge is dull	Replace cutting edge
	Blade angle is too straight	Adjust top link
	Soil is too hard	Use scarifier shanks to relax soil
A-Frame is bent	Impacting objects during backfill	Slow speed down if soil conditions are unknown
Moldboard is digging too deep	Blade angle too steep	Adjust top link
Unable to level ground adequately	Tractor Draft Control set incorrectly	Adjust Tractor Draft Control
Hydraulic cylinder does not function	Auxiliary hydraulic couplers not completely connected	Connect auxiliary couplers
Auxiliary hydraulic hose fitting leak	Connections are not tight	Tighten connections
	Connections are cracked from over-tightening	Replace cracked connections
	Mismatched connection threads or types	Determine that auxiliary connectors are correct



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**

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.

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SERVICE SCHEDULE		FREQUENCY
ITEM	SERVICE REQUIRED	DAILY
Lubrication	Lubricate grease points.	X

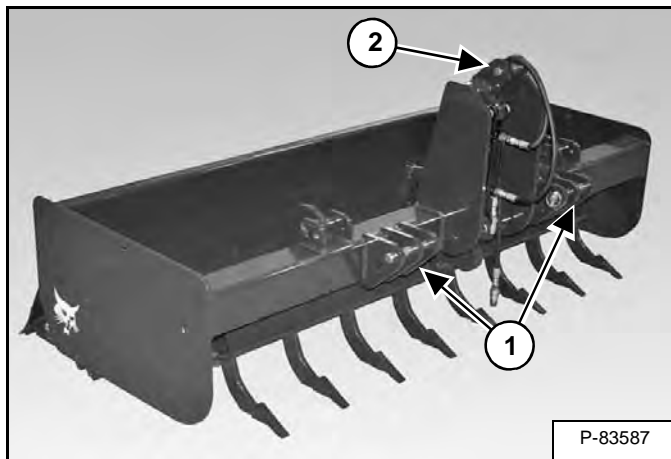




## DAILY INSPECTION

### Implement Mounting Frame

Figure 10-30-1



Inspect the lower three-point mounts and lower mounting pins (Item 1) and upper three-point mount and pin (Item 2) [Figure 10-30-1], along with all welds for wear and damage each time the three-point heavy duty box blade is removed from the compact tractor.

Check the following items at the start of a work day:

- Check for damaged or missing decals. Replace if necessary.
- Replace any worn or damaged parts immediately.

### Three-Point Hitch

## ! WARNING

### AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Fully lower the loader arms, put the attachment flat on the ground (if equipped).
- Fully lower the implement(s) to the ground (if equipped).
- Lock brake pedals together and engage the parking brake.
- Place all controls in neutral.
- Stop the engine, unfasten the seat belt and remove the key.

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## ! WARNING

### AVOID INJURY OR DEATH

The parking brake must be engaged before leaving the operator's seat. Rollaway can occur because the transmission may not prevent machine movement. Lock the brake pedals together before activating the parking brake.

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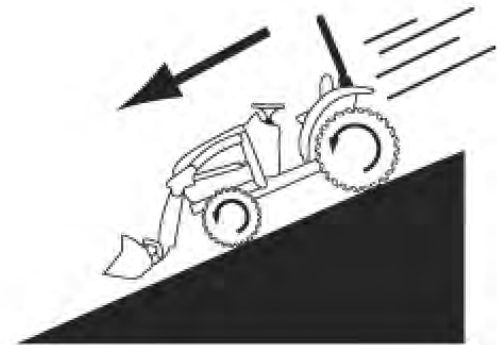
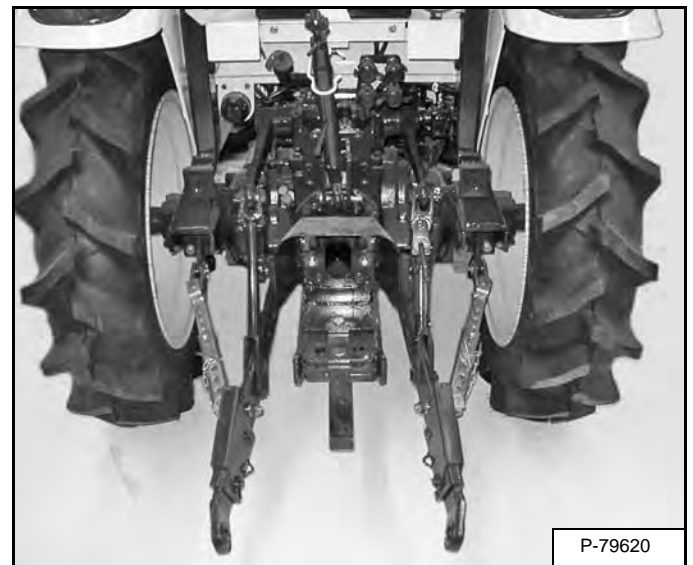


Figure 10-30-2



Inspect the three-point hitch linkage, PTO shaft splines, guards, and shields. Replace if damaged or missing [Figure 10-30-2]. Repair broken or loose parts.

See the Compact Tractor Operation & Maintenance Manual for detailed information on inspecting the compact tractor.



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