

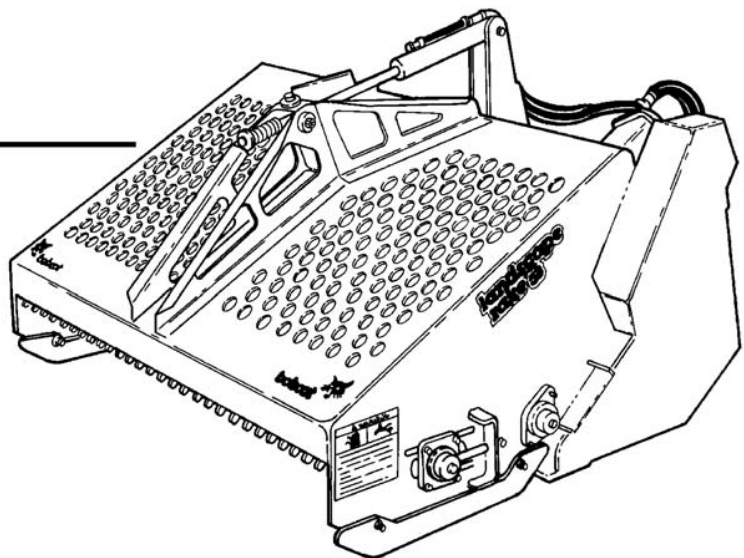
# Landscape Rake



# Bobcat®

# Service Manual

4A S/N 440000101 & Above  
4A3 S/N 450000101 & Above  
5A S/N 460000101 & Above  
5A3 S/N 460600101 & Above  
5B S/N 910700101 & Above  
5B3 S/N 062700101 & Above  
6A S/N 470000101 & Above  
6A3 S/N 470600101 & Above  
6B S/N 063000101 & Above  
6B3 S/N 062500101 & Above





# MAINTENANCE SAFETY



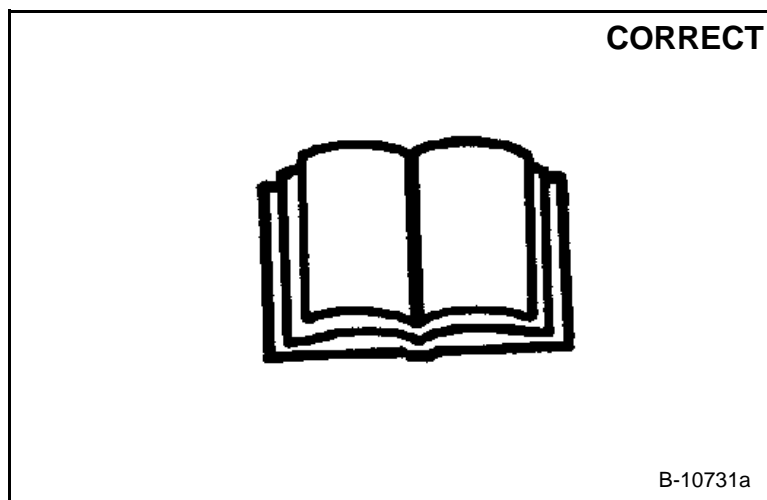
## WARNING









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.



-  Never service attachments without instructions. See Operation & Maintenance Manual and Attachment Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment with the engine running unless instructed to do so in manual.
-  Always lower the attachment 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®**

## ALPHABETICAL INDEX

BEARINGS .....	30-01
CYLINDER ROD GUIDE (B SERIES).....	30-01
DRIVE CHAIN .....	30-01
FLOW DIVIDER (A SERIES) .....	20-01
GLOSSARY OF HYDRAULIC SYMBOLS	
FOR ATTACHMENTS .....	SPEC-01
HINGES .....	30-01
HYDRAULIC CYLINDER .....	20-01
HYDRUULIC MOTOR.....	20-01
HYDRAULIC SCHMATIC .....	SPEC-01
INSPECTION .....	10-01
LANDSCAPE RAKE CHAIN (A SERIES) .....	30-01
LANDSCAPE RAKE CHAIN (B SERIES) .....	30-01
LUBRICATION.....	10-01
PORT BLOCK (B SERIES).....	20-01
ROD GUIDE HOUSING (B SERIES).....	30-01
SERVICE SCHEDULE.....	10-01
SPECIFICATIONS .....	SPEC-01
TROUBLESHOOTING .....	10-01



**Bobcat®**

## CONTENTS

SERIAL NUMBER LOCATION .....	III
IDENTIFICATION .....	IV
PREVENTIVE MAINTENANCE .....	10-01
HYDRAULIC SYSTEM .....	20-01
MAIN FRAME .....	30-01
SPECIFICATIONS AND SCHEMATICS .....	SPEC-01

**PREVENTIVE  
MAINTENANCE**

**HYDRAULIC  
SYSTEM**

**MAIN FRAME**

**SPECIFICATIONS  
AND  
SCHEMATICS**

### **CALIFORNIA**

#### **PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



**Bobcat®**



## SERIAL NUMBER LOCATION

Figure 1

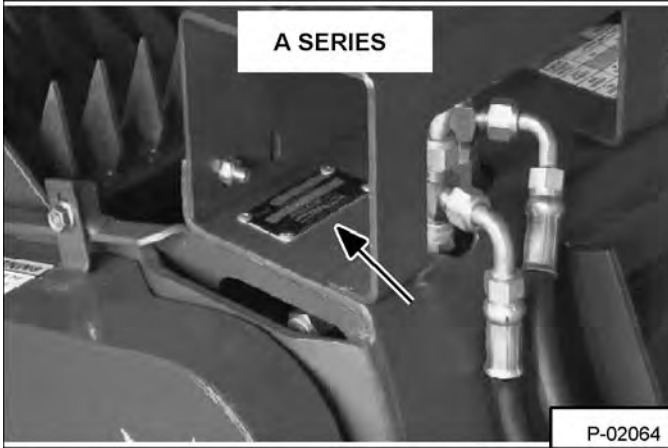
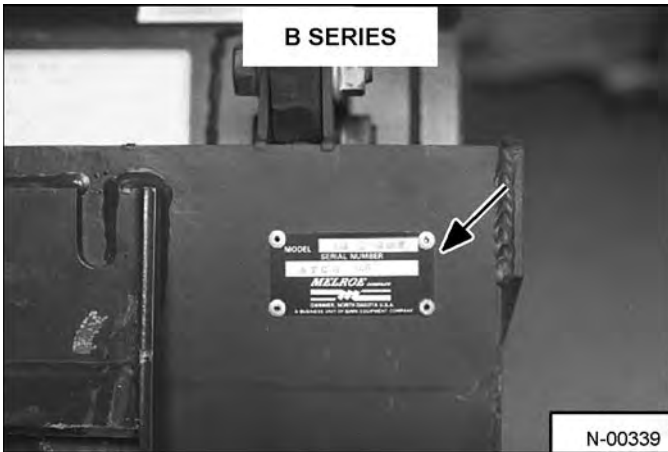


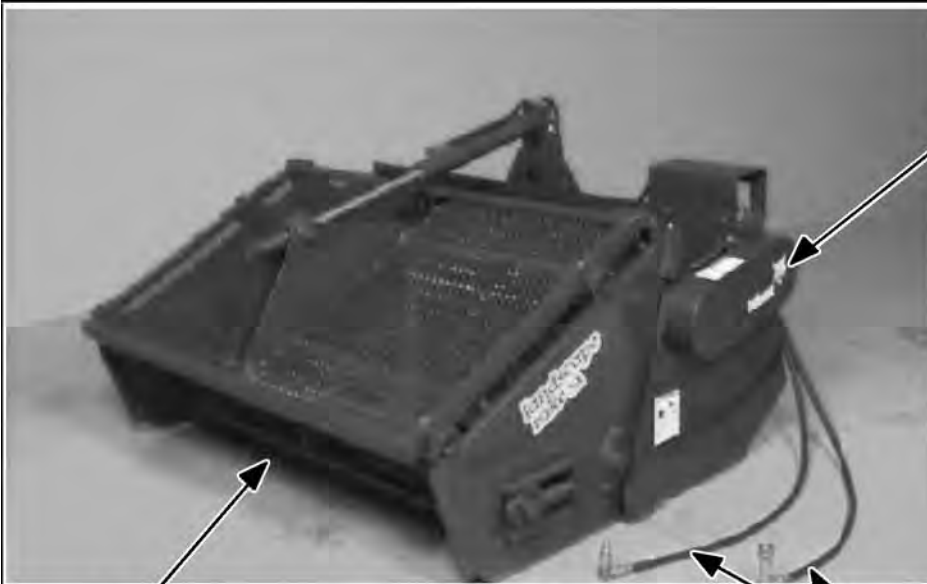
Figure 2



It is important to make the correct reference to the Serial Number of the Landscape Rake when making repairs or ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use different procedures in doing a specific operation [Figure 1] & [Figure 2].

**IDENTIFICATION**

**A Series**



Rake Teeth

Drive Motor

Quick Couplers

APPROVED AND NON-APPROVED LOADER-RAKE COMBINATIONS				<b>WARNING</b>
APPROVED		NON-APPROVED		
BOBCAT LOADER MODEL	ANDSCAPE RAKE MODEL			
	4A	5A	6A	
500 SERIES				<p><b>AVOID INJURY OR DEATH</b></p> <ul style="list-style-type: none"> <li>* DO NOT LIFT LOADED RAKE MORE THAN 3 FEET (1.0 m). TIPPING CAN RESULT.</li> <li>• RAKE MUST ONLY BE OPERATED FROM THE OPERATOR'S SEAT.</li> <li>• RAKE MUST BE LOWERED TO THE GROUND AND ENGINE STOPPED BEFORE CLEANING, SERVICING OR REPAIRING.</li> </ul> <p>XXXX 6529335</p>
600 SERIES	* Lift Restriction			
700 SERIES		* Lift Restriction		
7753			* Lift Restriction	
800 SERIES AND 1500			* Lift Restriction	
2000 2400				

6529335

Control Valve

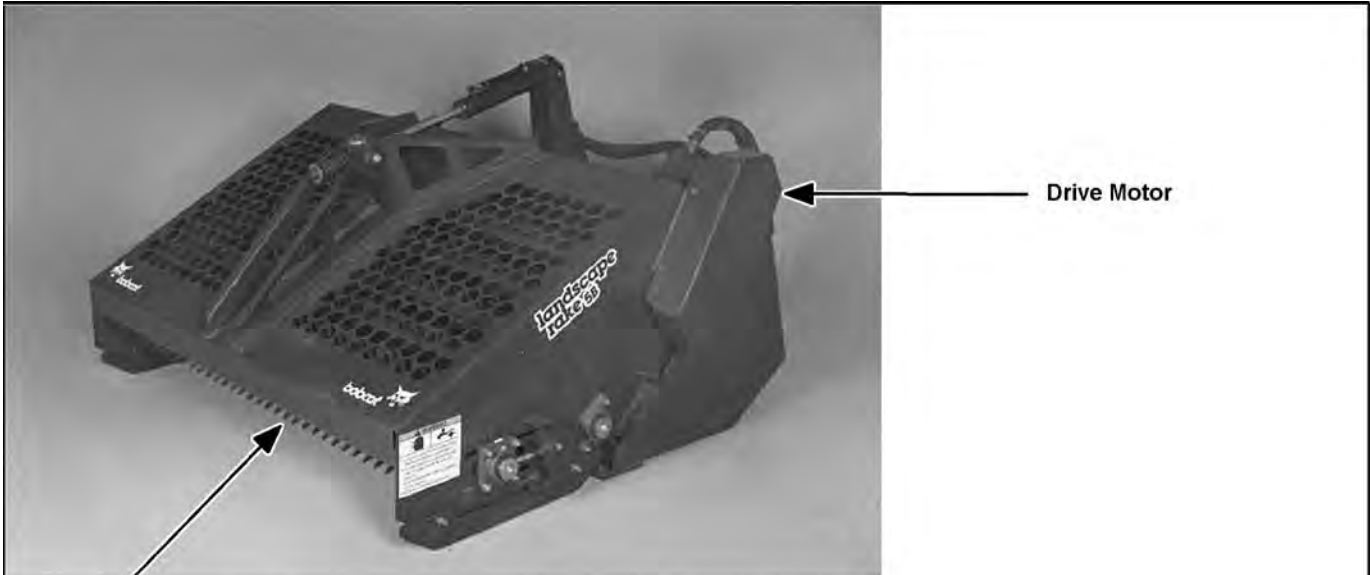
Hydraulic Cylinder



P-02073  
P-02070

IDENTIFICATION (CONT'D)

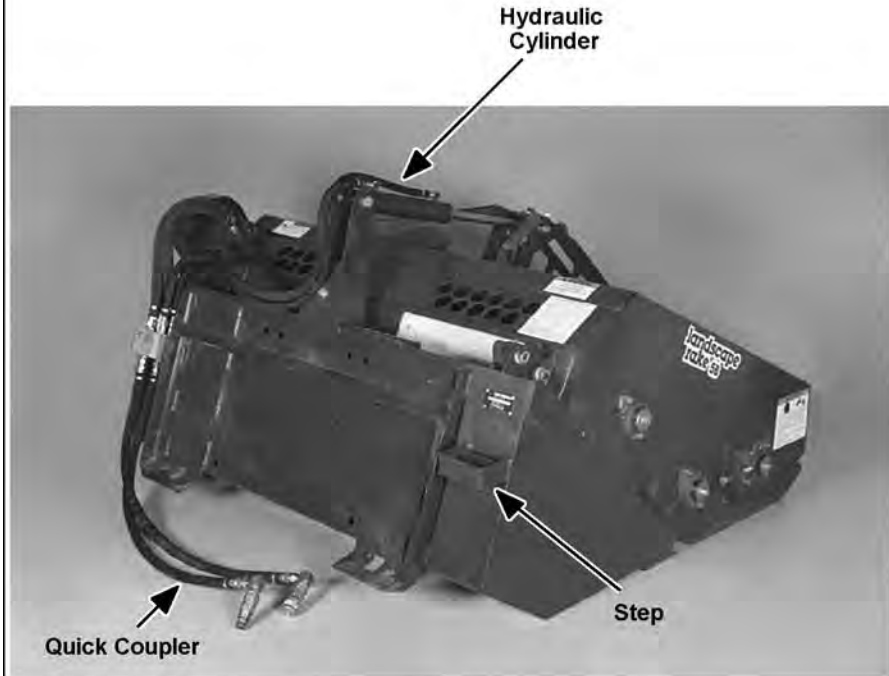
B Series



Rake Teeth

Drive Motor

<p>*</p>	<p><b>WARNING</b></p> <p><b>AVOID INJURY OR DEATH</b></p> <p>* LIFT RESTRICTION REQUIRES THAT LOADED RAKE NOT BE LIFTED MORE THAN 1 m (3 FEET). TIPPING CAN RESULT.</p> <p>LOWER RAKE TO GROUND AND STOP ENGINE BEFORE CLEANING, SERVICING OR REPAIRING.</p> <p>XXXXX 6711389</p>		<p>APPROVED AND NON-APPROVED LOADER-RAKE COMBINATION</p>				
	<p>APPROVED</p>					<p>NON-APPROVED</p>	
	<p>LANDSCAPE RAKE MODEL</p>	<p>BOBCAT LOADER MODEL</p>					
	<p>500 / 600 SERIES</p>	<p>700 SERIES</p>	<p>760 SERIES</p>	<p>770 / 850 SERIES</p>	<p>870 SERIES</p>		
<p>5B</p>	<p>///</p>	<p>* LIFT RESTRICTION</p>	<p>///</p>	<p>* LIFT RESTRICTION</p>	<p>///</p>		
<p>6B</p>	<p>///</p>	<p>///</p>	<p>* LIFT RESTRICTION</p>	<p>* LIFT RESTRICTION</p>	<p>///</p>		



Quick Coupler

Hydraulic  
Cylinder

Step

MC-02243  
N-00359  
N-00360



**Bobcat®**

## PREVENTIVE MAINTENANCE

**PREVENTIVE  
MAINTENANCE**

INSPECTION .....	10-30-1
Bob-Tach Inspection .....	10-30-1
LUBRICATION .....	10-40-1
A Series .....	10-40-1
B Series .....	10-40-1
SERVICE SCHEDULE .....	10-20-1
Daily Inspection .....	10-20-1
25 Hour Inspection .....	10-20-1
300 Hour Inspection .....	10-20-1
TROUBLESHOOTING .....	10-10-1
Chart .....	10-10-1



**Bobcat**®

## TROUBLESHOOTING



### AVOID INJURY OR DEATH

Before cleaning, servicing or repairing the Landscape Rake attachment:

- Level and lower the attachment to the ground.
- Stop the engine.
- Release pressure in all hydraulic circuits.

W-2237-0496

### Chart

PROBLEM	CAUSE	CORRECTION
Rake chain does not turn in either direction.	Drive chain on hydraulic motor is broken or loose.	Replace the chain or adjust as needed.
	Drive sprocket is off the shaft.	Install the drive sprocket and tighten set screws.
	Auxiliary hydraulics are not activated.	Activate auxiliary hydraulics
	Faulty loader valve.	Repair loader valve.
Rake chain comes off sprocket.	Rake chain is too loose.	Adjust the rake chain tension.
Rake chain jumps irregularly.	Rock in link of chain.	Remove the rock.
	Sprockets are loose or out of alignment.	Check alignment & tighten set screws.
Excessive heat is being created by the hydraulics.	Rake attachment has been mounted on a loader with too much hydraulic flow.	Install the correct sprockets, chain & drive kit. Run at slower engine speed.



**Bobcat®**





### **AVOID INJURY OR DEATH**

**Instructions are necessary before doing service on the Landscape Rake attachment. See warnings and instructions both at beginning and throughout this manual. After servicing, repairing or adjusting, always check for correct function of Landscape Rake.**

W-2238-0496

---

Maintenance work must be done at regular intervals. Failure to do so can result in damage to the rake attachment. This service schedule is a guide for correct maintenance of the rake attachment.

### **Daily Inspection**

1. Clean the rake attachment to keep it free of material build up.
2. Lubricate the 10 grease fittings (one fitting located under the chain guard).
3. Check all nuts, bolts, and guards for tightness.
4. Check safety signs (decals) and safety treads for damage. Replace if damaged, clean if soiled.
5. Check all hydraulic hoses and fittings.
6. Check for loose or damaged parts.

### **25 Hour Inspection**

1. Remove the bolt on the chain guard, wipe clean and lubricate the chain. Check the chain for the correct tension (a half link can be removed). Install chain guard before operation.
2. Adjust the tension of the rake chain. (See Adjustment on Page 30-10-2.) or (See Adjustment on Page 30-20-7.)
3. Check idler alignment to make sure the rake chain is traveling on the center of each idler.

### **300 Hour Inspection**

1. Check the rake teeth. The rake teeth are 3 inches (76 mm) long when new, if the rake teeth show wear of 1/4 inch (6,35 mm) or more, the rake tooth should be hard surfaced with a hard surface welding rod.
2. Check for bent rake teeth. Bent rake teeth can usually be straightened. Do not use heat to straighten teeth. Heat will cause the hardened teeth to become soft.
3. Check chain and sprocket for wear. Replace the parts as needed.



**Bobcat**®

**Dear**

**Thanks very much for your visiting and  
patience.**

**Want to get more information,**

**Please click here, Go back to the page.**

**After your payment, you will have instant access to  
your download.**

**The Download Link will also be sent to your e-mail.**

**You will get the complete manual**

**Have any questions**

**please write to me**

**[admin@servicemanualperfect.com](mailto:admin@servicemanualperfect.com)**