864

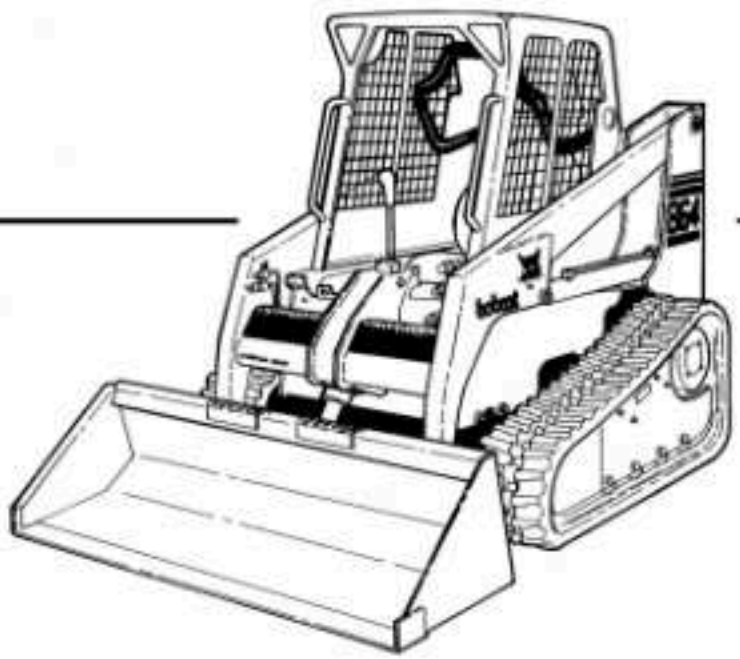
864

HIGH FLOW

Bobcat®

Operation & Maintenance Manual

S/N 518911001 thru 14999
S/N 516811001 thru 14999
S/N 517511001 thru 14999



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

6900953 (10-04) Revised (12-06) (3)

Ingersoll Rand
Compact Vehicle Technologies

Printed in U.S.A.

© Bobcat Company 2006

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD III

SAFETY XI

OPERATING INSTRUCTIONS OI-1

PREVENTIVE MAINTENANCE PM-1

SYSTEM SETUP & ANALYSIS SA-1

MACHINE SIGN TRANSLATIONS MST-1

SPECIFICATIONS SPEC-1

REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Loader in the spaces below. Always use these numbers when referring to your Bobcat Loader.

Loader Serial Number _____

Engine Serial Number _____

_____

_____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

Bobcat Company Europe
Dréve Richelle 167
B-1410 WATERLOO
Belgium

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

FOREWORD

This Operation & Maintenance Manual was written to give the owner/operator instructions on the safe operation and maintenance of the Bobcat Loader. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR machine. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

BOBCAT LOADER IDENTIFICATION. VIII

DELIVERY REPORT. VII

FEATURES AND ACCESSORIES IX

MOTOR OIL V

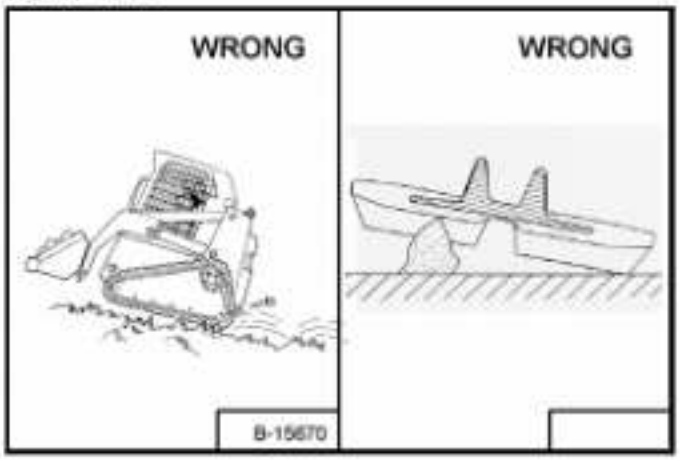
REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATIONS VII
Engine Serial Number VII
Loader Serial Number VII

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

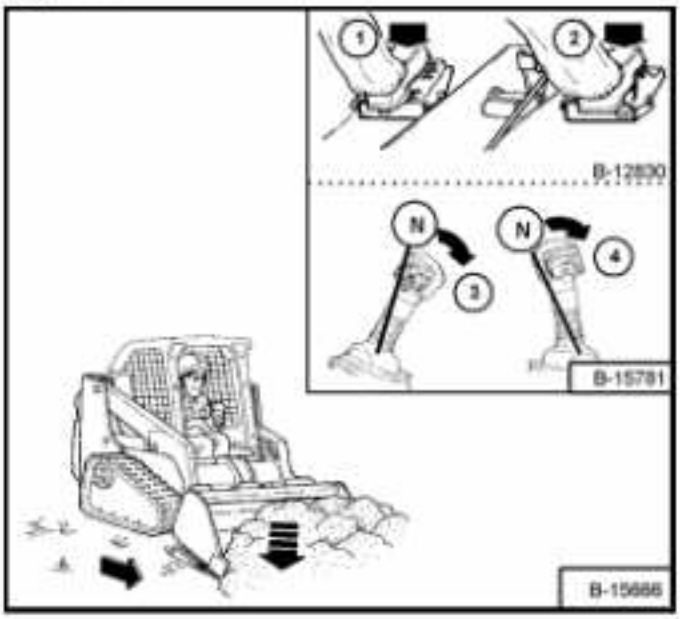
Compact Track Loader Operating Tips (Cont'd)

Figure OI-73



Filling the Bucket (Foot Pedals)

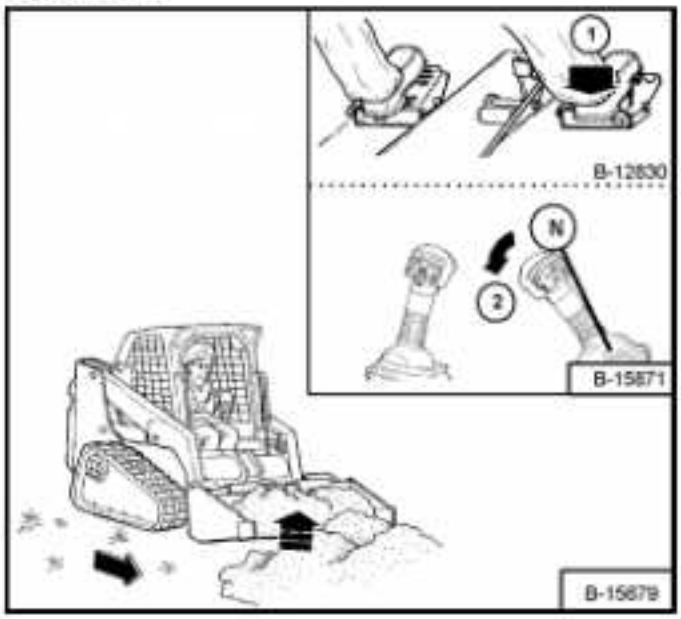
Figure OI-74



Push the top of the lift pedal (Item 1) **[Figure OI-74]** until the lift arms are all the way down.

Push the top of the tilt pedal (Item 2) **[Figure OI-74]** to put the cutting edge of the bucket on the ground.

Figure OI-75



Drive slowly forward into the material. Push the bottom of the tilt pedal (Item 1) **[Figure OI-75]** to raise the front of the bucket.

Drive backward away from the material.

⚠ WARNING

Load, unload and turn on flat level ground. Do not exceed Rated Operating Capacity (ROC) shown on sign (decal) in cab. Failure to obey warnings can cause the machine to tip or roll over and cause injury or death.

W-2056-0903

Filling the Bucket (Hand Controls)

Move the left hand lever, from neutral position (**N**), toward the operator (Item 3) **[Figure OI-74]** until the lift arms are all the way down.

Move the right hand lever, from neutral position (**N**) away from the operator (Item 4) **[Figure OI-74]** to put the cutting edge of the bucket on the ground.

Drive slowly forward into the material. Move the right hand lever, from neutral position (**N**), toward the operator (Item 2) **[Figure OI-75]** to raise the front of the bucket.

Drive backward away from the material.

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

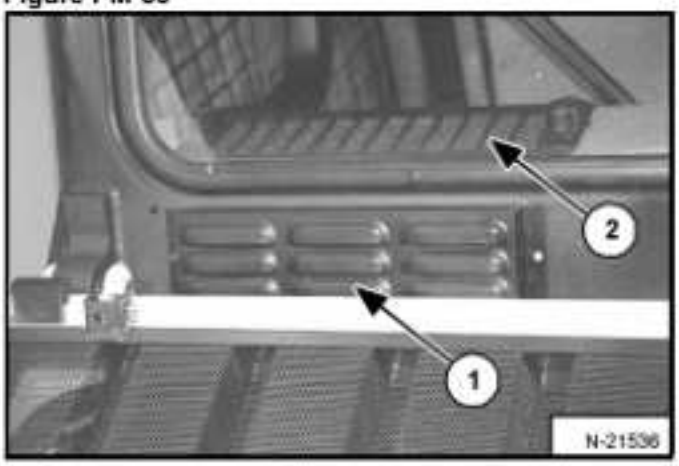
HEATER AND AIR CONDITIONING

Cleaning and Maintenance

The heater and air conditioning require regular inspection and maintenance. (See SERVICE SCHEDULE on Page PM-7 for intervals.)

Filters

Figure PM-80



The *Fresh Air Filter* is located below the rear window of the cab (Item 1) **[Figure PM-80]**.

Remove the bolts and remove the filter housing.

Shake the filter or use low air pressure to remove dirt.

Reinstall the filter and housing.

The *Recirculation Filter* is located in front of the rear window inside the cab (Item 2) **[Figure PM-80]**.

Remove the clamping knobs, grill and filter.

Clean the filter with water and mild detergent. Reinstall the filter.

Evaporator

Figure PM-81



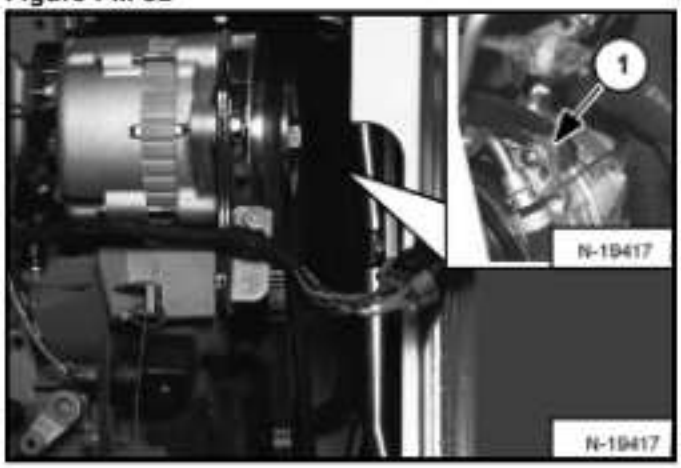
Raise the cab and remove the evaporator cover (Item 1) **[Figure PM-81]**.

Use low pressure water or air to remove debris from the evaporator fins.

Install the cover.

Air Conditioner Belt Adjustment

Figure PM-82



Loosen the mounting and adjustment bolts (Item 1) **[Figure PM-82]**. Move the compressor forward to tighten the belt. Tighten the mounting and adjustment bolts. Check regularly for belt wear.

Air Conditioner Lubrication

Run the air conditioner for about 5 minutes every week to lubricate the internal components.

Troubleshooting

If the fan does not run, or the air conditioning does not turn on, check the fuse. (See ELECTRICAL SYSTEM on Page PM-27.)

If the air conditioning system circulates warm air, the refrigerant may need to be recharged.

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

864/864H COMPACT TRACK LOADER SPECIFICATIONS (CONT'D)

Drive System

Primary	Hydrostatic track drive

Hydraulic System

Engine driven, gear type	18.8 GPM (71,2,0 L/min.) @ 3000 RPM
System relief @ quick couplers	3000 PSI (20600 kPa)

Electrical System

Alternator	12-volts, 50 or 90 amp, open, neg. ground
Battery	12 volts - 1000 CCA @ 0°F (-18°C)

Standard System Instrumentation

Hourmeter, gauges, and warning lights for engine and hydraulic/hydrostatic functions.

Optional BOSS System Instrumentation

Electronic display panel with visual warning and audible alarm. Automatic shutdown function and diagnostic capability.

Capacities

CAPACITIES:		TYPE:
Fuel Tank	25 Gal. (94 L)	Diesel #2 or #1
Eng. Lubrication & Cooling System	16 qt. (9,5 L)	See Chart Page **PM-21**
Engine Oil Change w/Filter	9 qt. (8.5 L)	See Chart Page **PM-21**
Hydrostatic Motor Carrier	- - -	Synthetic Oil P/N 6682546
Idlers and Roller	3.4 oz. (100 cc)	SAE 10W-40
Hyd./Hydros. Res.	4 Gal. (15,2 L)	See Below
Hyd./Hydros. System	10 Gal. (38 L)	See Below

Abv. 0°F (-18°C) use Bobcat Fluid 6563328 or SAE 10W-30 SE, 10W-40 SE
Bel. 0°F (-18°C) use SAE 5W-30 SE

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

Safe Operation Is The Operator's Responsibility

Safety Alert Symbol

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

WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

The Bobcat Loader and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.
- Service Safety Training Courses are available from your Bobcat dealer. They provide information for safe and correct service procedures.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity (R.O.C.) of the machine. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of the load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the **Before Operation** Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

SI SSL-0206

MidWestTech | Bobcat 864, 864 High Flow Skid Steer Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >