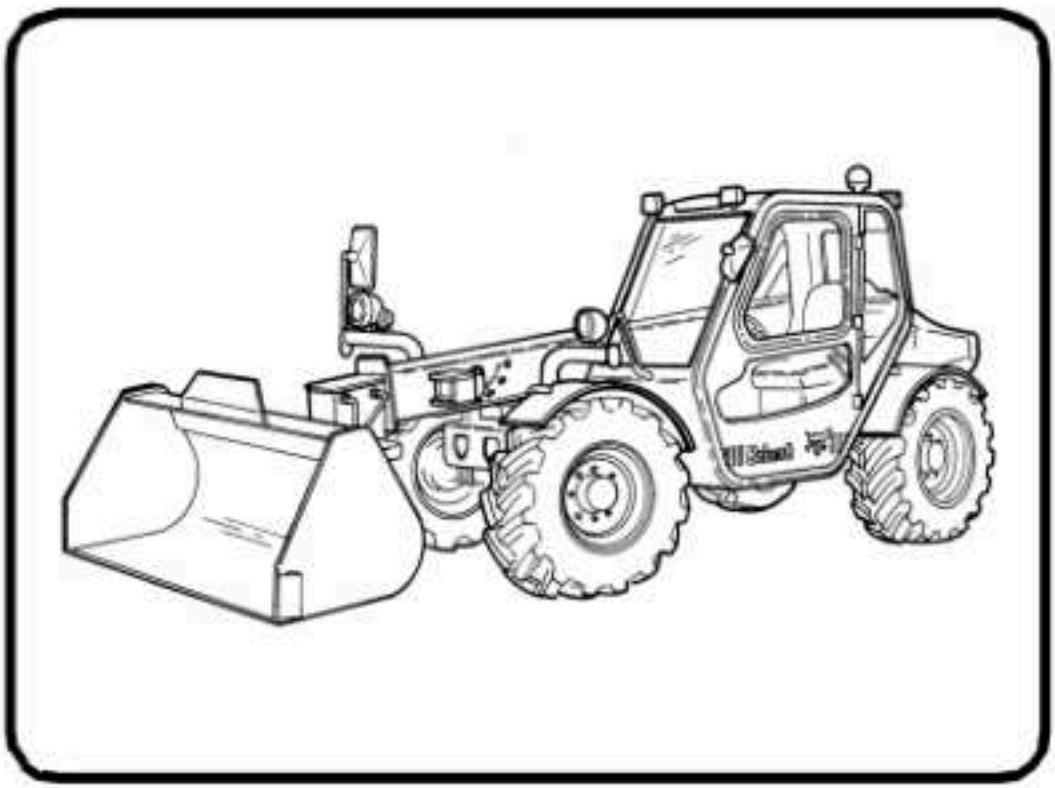
Bobcat®

Operation & Maintenance Manual
V518 / V723 VersaHANDLER®
Telescopic Tool Carrier (TTC)

V518 - S/N A8G813000 & Above (With Cab)
V518 - S/N A8G913000 & Above (With Canopy)
V723 - S/N A8HP13000 & Above (With Cab & Frame Leveling)
V723 - S/N A8HL13000 & Above (With Cab)
V723 - S/N A8HK13000 & Above (With Canopy & Frame Leveling)



6989577 (3-10)

Printed in U.S.A.

© Bobcat Company 2010

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD 5

SAFETY & TRAINING RESOURCES 13

OPERATING INSTRUCTIONS 23

PREVENTIVE MAINTENANCE 77

MACHINE SIGN TRANSLATIONS 127

SPECIFICATIONS 141

WARRANTY 147

ALPHABETICAL INDEX 151

REFERENCE INFORMATION

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

VersaHANDLER Serial Number _____

Engine Serial Number _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
BELGIUM

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... 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 VersaHANDLER. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT VersaHANDLER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your VersaHANDLER.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

REGULAR MAINTENANCE ITEMS 7

SERIAL NUMBER LOCATION 8
- VersaHANDLER Serial Number 8
- Engine Serial Number 8

DELIVERY REPORT 9

VERSAHANDLER IDENTIFICATION 10

FEATURES, ACCESSORIES AND ATTACHMENTS 11
- Standard Items 11
- Options And Accessories 11
- Available Tires 11
- Attachments 11
- Front Window Guard Kit 12
- Front Window Guard Kit Inspection And Maintenance 12

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... Order the manual at mid-west-tech.com >

Left Instrument Panel

Figure 14



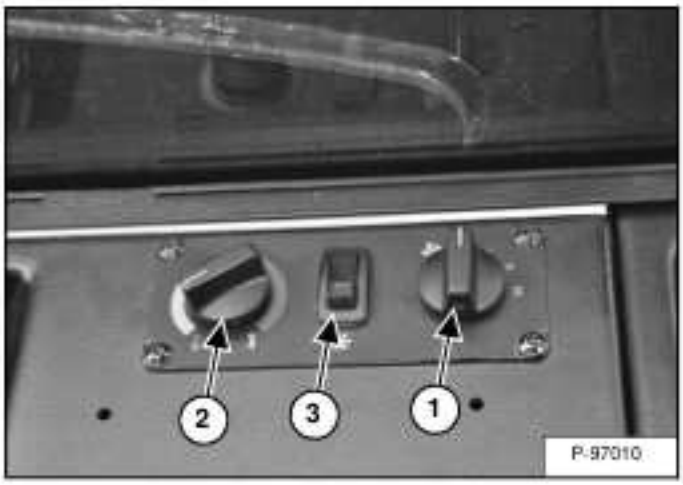
Left Side Instrument Panel

1. **Hazard Lights (Red Light)** - Press the bottom of the switch to turn the Hazard lights ON; press top to turn OFF. Light flashes when Hazard Lights are ON.

NOTE: Both the left and right directional arrows (Item 16) [Figure 12] will also flash when the hazard switch is activated.

Heater / Air Conditioning Controls (If Equipped)

Figure 15



Right Rear Console

1. **Fan Switch** - Turn clockwise to increase fan speed. "O" - Off, "I" - Low, "II" Medium, "III" - Fast

2. **Temperature Control** - Turn clockwise to increase cab temperature; counterclockwise to decrease.

3. **Air Conditioning Switch (If Equipped)** - Press the top of the switch to turn the Air Conditioning ON - Press the bottom of the switch to turn the Air Conditioning OFF.

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... Order the manual at mid-west-tech.com >

SERVICE SCHEDULE

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 VersaHANDLER.

⚠ 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

SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	10	50	100	250	500	[5] 1000
Engine Oil	Check the oil level and add oil as needed.	■					
Hydraulic Fluid	Check fluid level and add as needed.	■					
Articulation Pins	Lubricate with multi-purpose lithium based grease.	■					
Safety Signs, Safety Tread and Mirrors	Check for damaged signs (decals), safety tread and mirrors. Replace if damaged or worn.	■					
Fuel Filter	Clean the sediment bowl / water trap.	■					
Nuts and Bolts	Check for loose nuts and bolts. Tighten as needed.	■					
Seat Belt and Restraint Bar (if equipped)	Check the condition of the seat belt. Check the Restraint Bar (if equipped). Clean dirt and debris from moving parts.	■					
Brakes	Check for function. Service as necessary.	■					
Back-up Alarm	Check for function. Replace as necessary.	■					
Lateral Operator Restraint System (if equipped)	Check that hydraulic and drive functions are deactivated when the restraint bar is raised. check indicator light on center instrument panel. See details in this Operation & Maintenance Manual.	■					
Tires	Check for wear or damage. Inflate to correct pressure. Be sure all tires are inflated to the same pressure. Use only approved tires.	■					
Engine Air Filter And Air System	Check condition indicator, replace element when required and empty dust cup as needed. Check air system for leaks.	■					
Engine Cooling System	Clean debris from oil cooler, radiator and air conditioner condenser. check coolant level cold in reservoir. Add premixed coolant as needed (See ENGINE COOLING SYSTEM, Page PM-16.) Check cooling system for leaks.	■					
King Pins, U-Joints, Axle Oscillation (Front / Rear), Attach. Frame Pivot(s), Tilt / Lift Cyl., Boom Pivot, Leveling Cyl. (if equipped)	Lubricate with multi-purpose lithium based grease.		■				
Telescopic Boom Slide	Lubricate with multi-purpose lithium based grease. Check wear blocks for adjustment or replacement.		■				
Hydraulic Hoses, Tubelines and Connections	Check condition of hoses, tubelines and connectors. Repair or replace as needed.		■				
Battery	Check electrolyte level. Add distilled water as needed.			■			
Wheel Nuts	Check wheel nut torque. Tighten as needed [221 ft.-lb. (300 N•m)].	[1]		■			
Restraint Bar Spring Pivot	Lubricate with multi-purpose lithium based grease.				■		
Alt. and Air Cond. Belt (if equipped)	Check belt tension and adjust as needed.		[2]		■		
Engine Oil and Filter	Replace the engine oil and filter. See SPECIFICATIONS Page SPEC-01 for correct capacity. Use a genuine Bobcat filter.		[2]			■	
Engine Air Filter	Replace the outer filter element. Use a genuine Bobcat filter.		[2]			■	
Fuel Filter	Replace the fuel filter element. Use a genuine Bobcat filter.		[2]			■	
Hydraulic Fluid Filter	Replace the hydraulic filter element. Use a genuine Bobcat filter.		[2]			■	
Hydrostatic Fluid Filter	Replace the hydraulic filter element. Use a genuine Bobcat filter.		[2]			■	
Hydraulic Fluid and Filter	Replace the hydraulic fluid and filter element. See SPECIFICATIONS.						■
Front and Rear Axle Fluid	Replace the axle fluid. See SPECIFICATIONS.			[3]		[4]	■
Telescopic Boom Wear Blocks	Check for wear and adjust as needed. Replace as necessary.						■
Pivot Pins and Bushings	Check for wear on the pivot pins and bushings.						■
Engine valve lash	Check and adjust as needed.						■
Engine Coolant	Check freeze protection of antifreeze -34°F (-30°C). Flush cooling system and replace with premixed coolant.	Every 2 years					

[1] Check wheel nut torque every 8 hours for the first 24 hours.
[2] Perform service first time, then as indicated in chart.
[3] Check level.
[4] Replace fluid first time, then as indicated in chart.
[5] Or every 12 months.

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... Order the manual at mid-west-tech.com >

WARNING

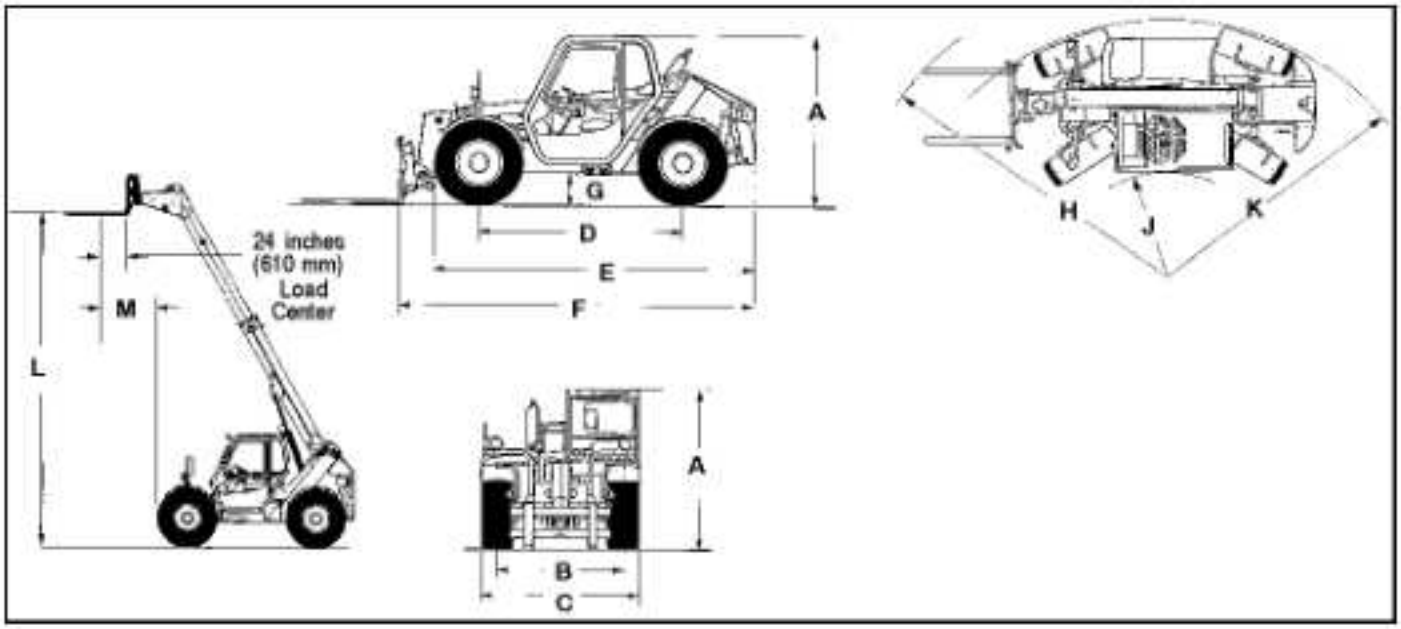
Each attachment and each VersaHANDLER TTC have different Load Capacity Charts. For example: An 84 inch bucket used on a V518 will have its own chart; that same 84 inch bucket when used on a V723 will have a different chart. Be sure you use the correct chart for your attachment and VersaHANDLER TTC combination.

W-2493-0204

Dimensions are given for machine equipped with standard tires and may vary with other tire types.

- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to SAE, ASME or ISO standards and are subject to change without notice.

Dimensional Specifications



	V518	V723	V723 WITH FRAME LEVELING
A	82.6 in. (2097 mm)	93.4 in. (2372 mm)	93.4 in. (2372 mm)
B	62.2 in. (1580 mm)	70.8 in. (1798 mm)	70.8 in. (1798 mm)
C	78.1 in. (1984 mm)	87.2 in. (2215 mm)	87.2 in. (2215 mm)
D	98.4 in. (2499 mm)	112 in. (2850 mm)	112 in. (2850 mm)
E	153.9 in. (3909 mm)	163 in. (4143 mm)	163 in. (4143 mm)
F	173.5 in. (4407 mm)	195.6 in. (4969 mm)	195.6 in. (4969 mm)
G	13.4 in. (340 mm)	20.2 in. (513 mm)	20.2 in. (513 mm)
H	184.8 in. (4694 mm)	212.6 in. (5400 mm)	212.6in. (5400 mm)
J	58.0 in. (1473 mm)	54.0 in. (1370 mm)	54.0 in. (1370 mm)
K	147.4 in. (3744 mm)	153.5 in. (3900 mm)	153.5 in. (3900 mm)
L	217.7 in. (5530 mm)	283.6 in. (7205 mm)	283.6 in. (7205 mm)
M	42.0 in. (1067 mm)	54.9 in. (1395 mm)	54.9 in. (1395 mm)

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... 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

DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107

WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

The Bobcat VersaHANDLER 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

- OSHA Rule 29 CFR 1910.178 (l) requires employers to train employees operating Rough Terrain Forklifts.
- 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 or structures 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.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Load Capacity of the machine (as indicated on the Load Capacity Charts). Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of 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, respiratory equipment, hearing protection or Front Window Guard are required for some work See your Bobcat dealer about Bobcat Safety Equipment.

SI VH-0208

MidWestTech | Bobcat V518 VersaHandler Cab, V518 VersaHandler Canopy, V723 VersaH... Order the manual at mid-west-tech.com >