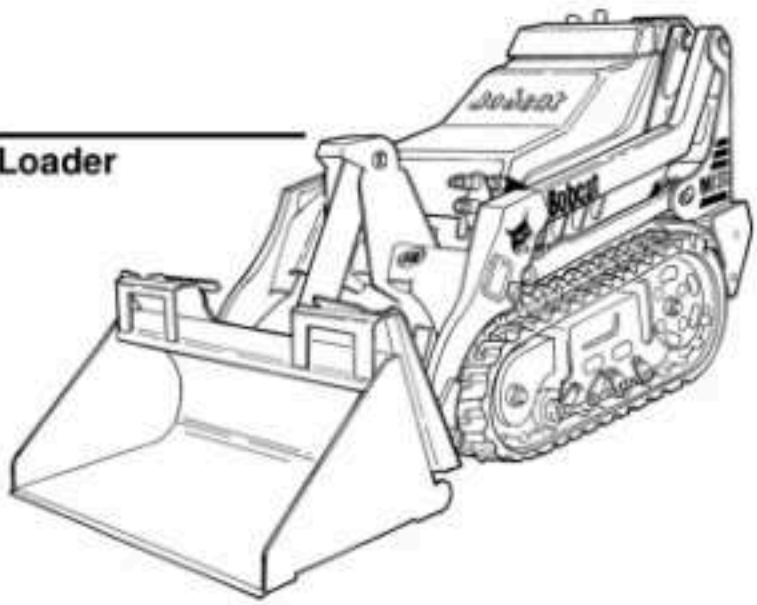
MT50

Bobcat®

Operation & Maintenance Manual

S/N 520611001 & Above
S/N 522411001 & Above

Mini Track Loader



Bobcat

6901508 (4-04) Revised (6-04) (10)

Printed in U.S.A.

©Bobcat Company 2004

MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD III

SAFETY IX

OPERATING INSTRUCTIONS OI-1

PREVENTIVE MAINTENANCE PM-1

SPECIFICATIONS. SPEC-1

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.

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
J. Huysmanslaan 59
B-1651 LOT
Belgium

MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

FOREWORD

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

DELIVERY REPORT. VII

ENGINE SERIAL NUMBER VII

FEATURES, ACCESSORIES AND ATTACHMENTS IX

MACHINE IDENTIFICATION VIII

MINI LOADER SERIAL NUMBER. VI

MOTOR OIL V

REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATIONS VI

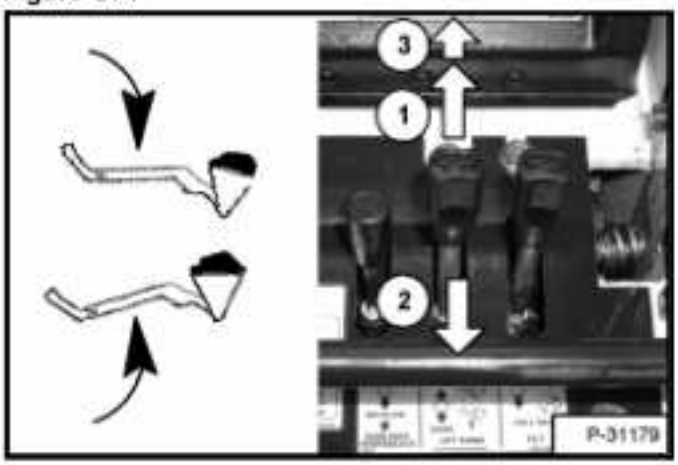
MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

HYDRAULIC CONTROLS

Lift Arm Operation

The center lever controls the lift arms.

Figure OI-7



Move the center lever forward (Item 1) **[Figure OI-7]** to lower the lift arms; backward (Item 2) **[Figure OI-7]** to raise the lift arms.

Lift Arm Float Position [Figure OI-7]

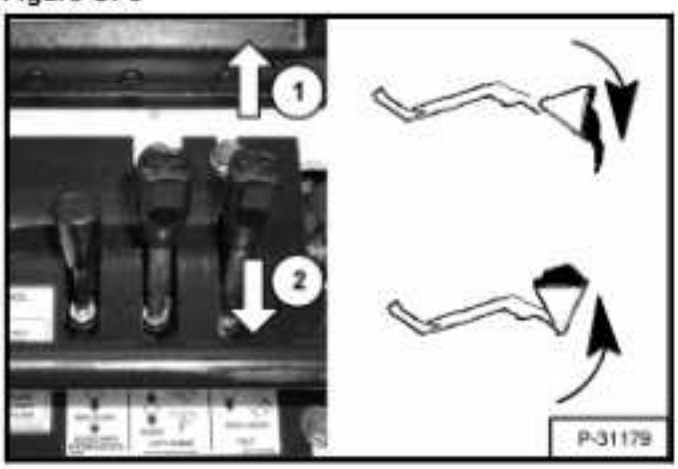
Move the center lever all the way forward (Item 3) **[Figure OI-7]** until it locks into the *float* position.

Use the *float* position of the lift arms to level loose material while driving backward.

Tilt Operation

The right lever controls the attachment tilt.

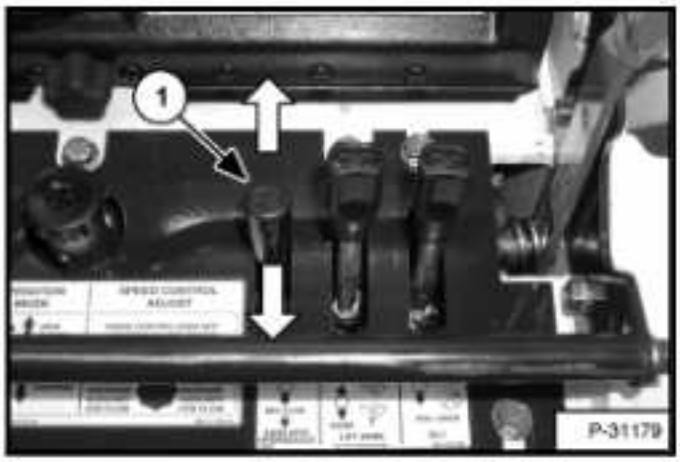
Figure OI-8



Move the right lever forward (Item 1) **[Figure OI-8]** to tilt the attachment forward; backward (Item 2) **[Figure OI-8]** to tilt the attachment backward.

Front Auxiliary Hydraulics

Figure OI-9



Your Bobcat loader is equipped with front auxiliary hydraulics which provides hydraulic power for attachments. The auxiliary control lever (Item 1) **[Figure OI-9]** is for operating an attachment such as a grapple or tiller.

Continuous Flow:

Push the auxiliary lever all the way forward or backward until it locks for continuous operation of an attachment such as an auger or trencher.

⚠ WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

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

CORRECT



B-10731a

⚠ Never service the Bobcat® Mini Loader without instructions.

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

WRONG



B-16106

⚠ Have good ventilation when welding or grinding painted parts.

⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.

⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.

WRONG



B-16105

⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace it if damaged.

WRONG



B-16104

⚠ Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.

⚠ Never modify equipment or add attachments not approved by Bobcat Company.

WRONG



B-16103

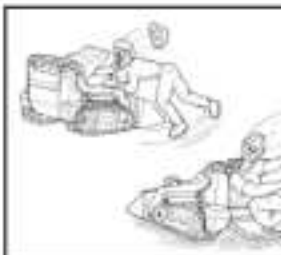
⚠ Stop, cool and clean engine of flammable materials before checking fluids.

⚠ Never service or adjust loader with the engine running unless instructed to do so in the manual.

⚠ Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.

⚠ Never fill fuel tank with engine running, while smoking or when near open flame.

WRONG



B-16111
B-16102

⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.

⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.

⚠ Keep rear door closed except for service. Close and latch door before operating the loader.

WRONG



B-6589

⚠ Lead-acid batteries produce flammable and explosive gases.

⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.

⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL. Always use genuine Bobcat replacement parts.** The Service Safety Training Course is available from your Bobcat dealer.

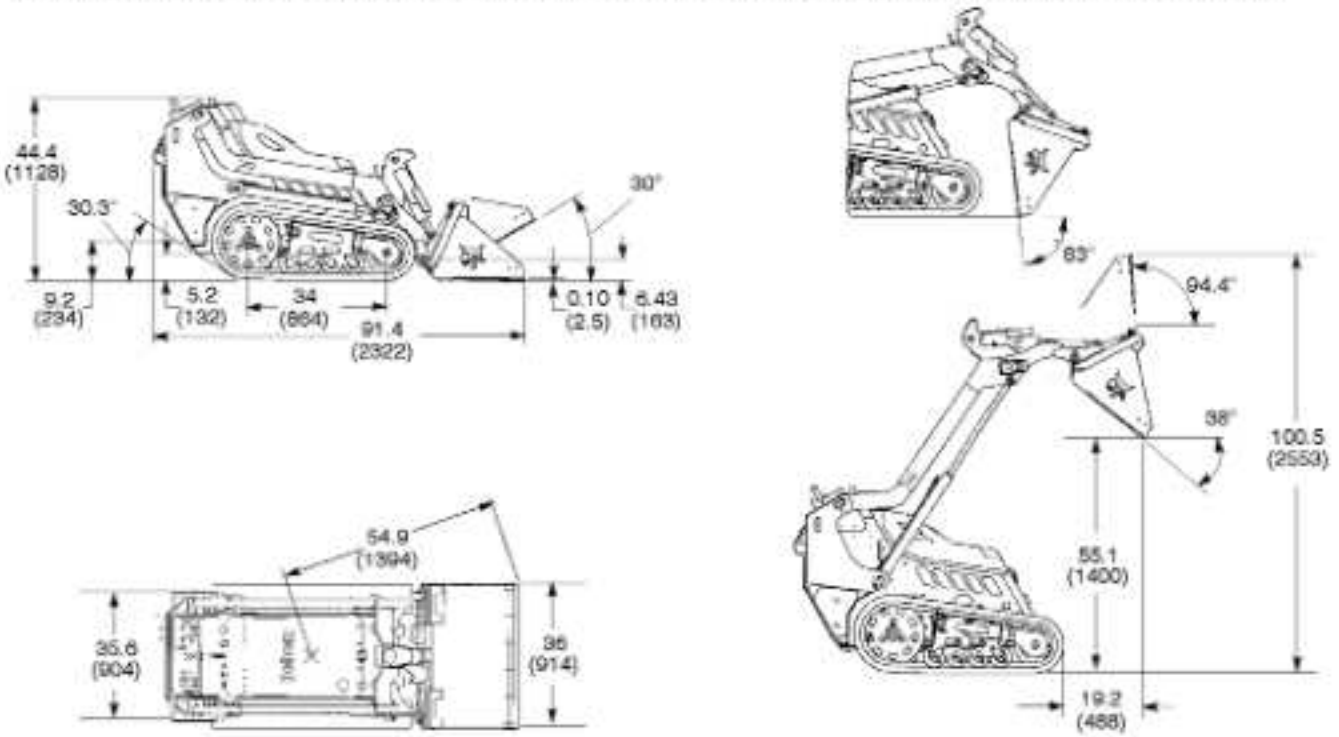
MSW22-0504

- **First oil and filter change must occur at 50 hours; 100 hours thereafter.**
- **Replace filter after the first 50 hours; 500 hours thereafter.**

MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >

MINI TRACK LOADER SPECIFICATIONS

- Dimensions are given for loader equipped with standard dirt bucket and may vary with other bucket types. All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to SAE or ISO standards and are subject to change without notice.



Changes of structure or weight distribution of the loader can cause changes in control and steering response and can cause failure of the loader parts.

Performance Specifications

Rated Operating Capacity (ISO)	500 lbs. (227 kg)
Tipping Load (SAE)	1500 lbs. (680 kg)
Operating Weight w/bucket	2497 lbs. (1133 kg)
Travel Speed (Forward)	3.2 MPH (5,2 km/hr)
(Reverse)	1.45 MPH (2,3 km/hr)

Engine

Make/Model	KUBOTA/D722EB-3
Fuel/Cooling	Diesel/Liquid (Antifreeze Mixture)
Horsepower (SAE Net)	18.8 HP (14,0 kW) @ 3600 RPM
Number of Cylinders	Three
Lubrication	Pressure System W/Filter
Air Cleaner	Dry replaceable cartridge w/safety element

MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... 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 Mini 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 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. 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.
- Safety Videos, which provide general information regarding safe and efficient equipment operation, are available from your Bobcat dealer.

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 or hearing protection are required for some work. See your Bobcat dealer about Bobcat Safety Equipment.

SI ML-1203

MidWestTech | Bobcat MT50 Mini Track Loader Operation & Maintenance Manual | Publica... Order the manual at mid-west-tech.com >