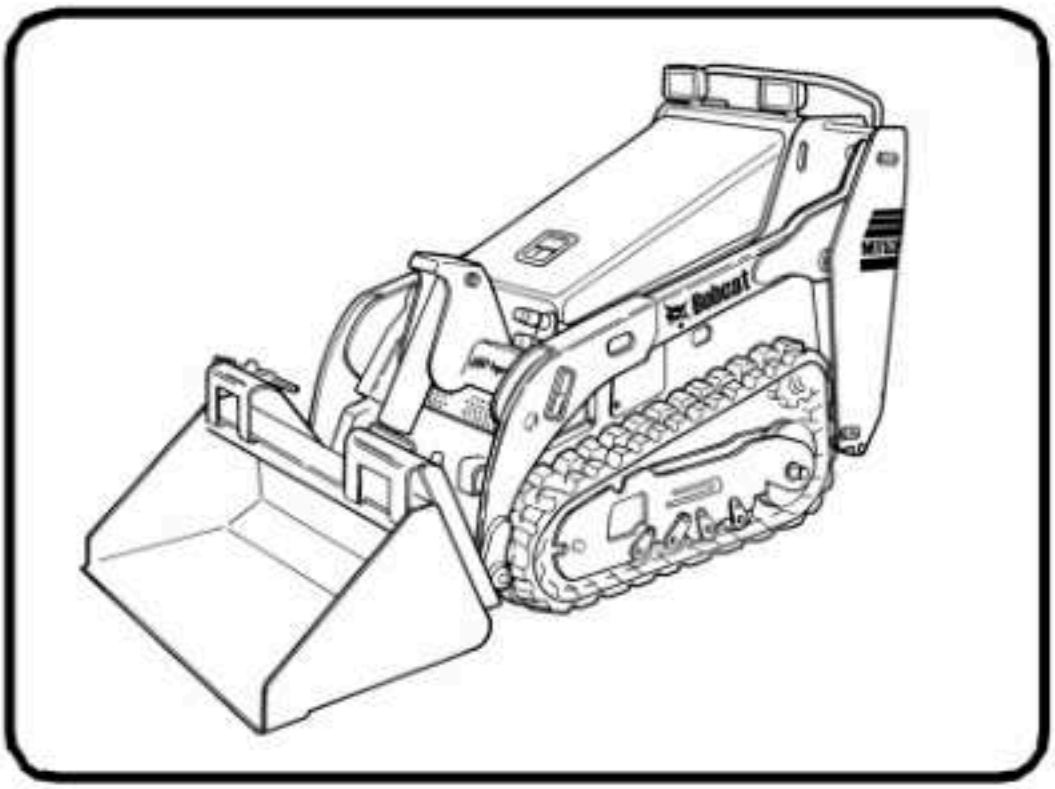
Bobcat®

Operation & Maintenance Manual
MT52 Mini Loader

S/N 528711001 & Above
S/N 528811001 & Above



6903375 (3-07) Revised (5-07) (5)

Printed in U.S.A.

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Mini Loader in the spaces below. Always use these numbers when referring to your Bobcat Mini 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
Drève Richelle 167
B-1410 WATERLOO
Belgium

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FOREWORD

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

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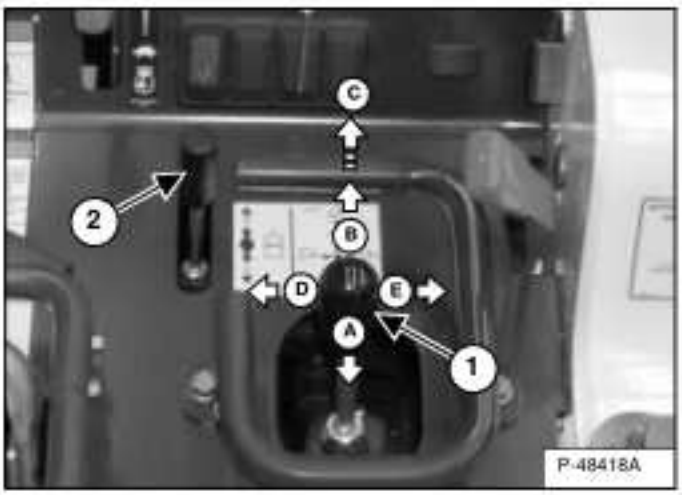
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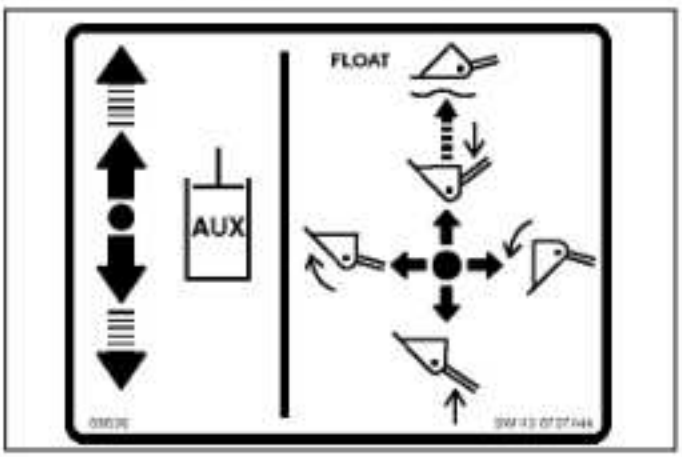
HYDRAULIC CONTROLS

Description

The hydraulic control lever controls the lift arms, bucket tilt and float functions.

Figure OI-16





The hydraulic control lever (Item 1) **[Figure OI-16]** controls the movement of the lift arms and the attachment tilt.

Lift Arm Operation

A - Raise Lift Arms

B - Lower Lift Arms

Lift Arm Float Position

C - Lift Arms in Float Position

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

Tilt Operation

D - Tilt Attachment Backward

E - Tilt Attachment Forward

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LUBRICATING THE MINI LOADER

Lubrication Locations

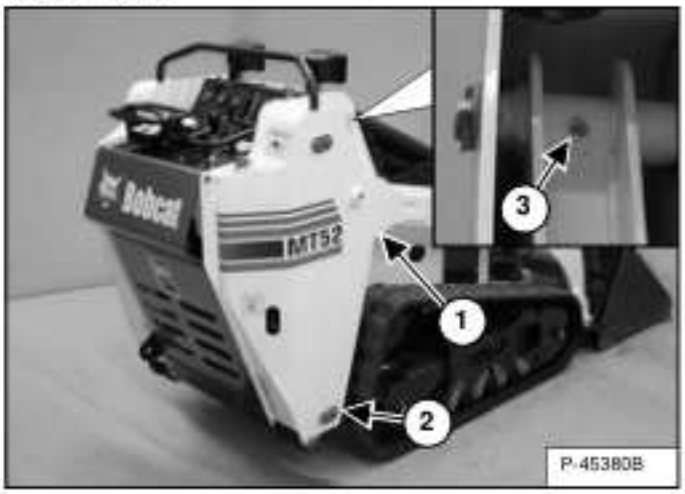
Lubricate the mini loader as specified, for the best performance of the mini loader. (See SERVICE SCHEDULE on Page PM-5.)

Record the operating hours each time you lubricate the Bobcat Mini Loader.

Always use a good quality lithium based multi-purpose grease. Apply lubricant until extra grease shows.

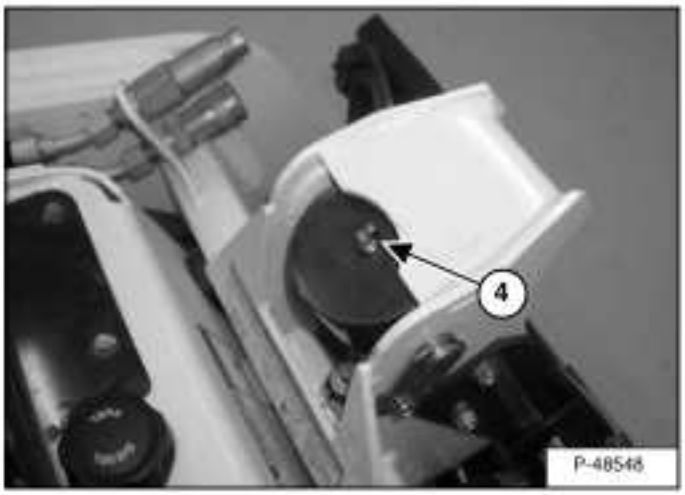
Lubricate the following locations:

Figure PM-48



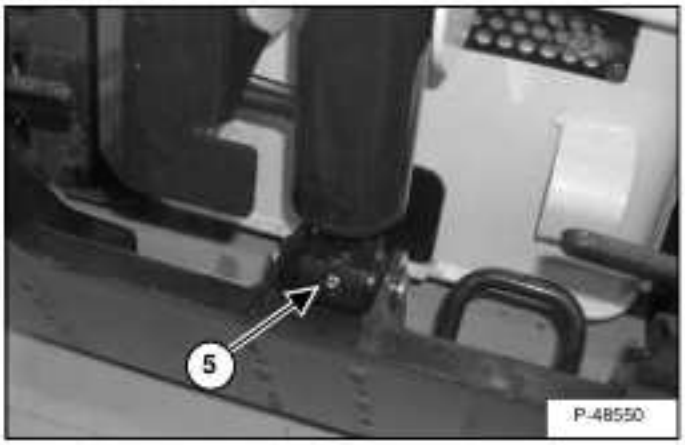
1. Lift Cylinder Rod End (Both Sides) **[Figure PM-48]**.
2. Lift Cylinder Base End (Both Sides) **[Figure PM-48]**.
3. Lift Arm Pivot (Both Sides) **[Figure PM-48]**.

Figure PM-49



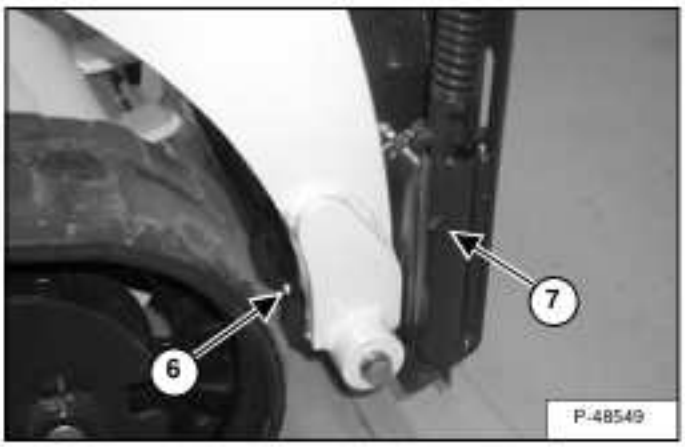
4. Tilt Cylinder Base End **[Figure PM-49]**.

Figure PM-50



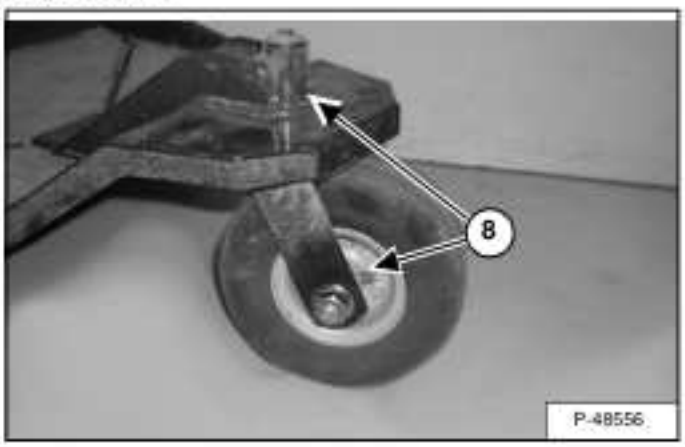
5. Tilt Cylinder Rod End **[Figure PM-50]**.

Figure PM-51



6. Bob-Tach Pivot Pin (Both Sides) **[Figure PM-51]**.
7. Bob-Tach Wedge (Both Sides) **[Figure PM-51]**.

Figure PM-52



8. Ride-On Operator Platform Wheel and pivot **[Figure PM-52]** (If Equipped).

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(MT52) LOADER SPECIFICATIONS (CONT'D)

Hydraulic System

Pump Type	Engine driven, gear type
Pump Capacity	12 GPM (45.4 L/min.) @ High Idle
System Relief at Quick Couplers	2700 PSI (186 bar)
Filter (Hydraulic)	Full flow replaceable, 10-micron synthetic media element
Hydraulic Cylinders Bore Diameter: Lift Cylinder (2) Tilt Cylinder (2) Rod Diameter: Lift Cylinder (2) Tilt Cylinder (2) Stroke: Lift Cylinder (2) Tilt Cylinder (1)	Double-acting; tilt cylinders have cushioning feature on dump and rollback 2.25 in. (57,2 mm) 3.00 in. (76,2 mm) 1.25 in. (31,8 mm) 1.25 in. (31,8 mm) 14.16 in. (359,7 mm) 10.56 in. (268,2 mm)
Control Valve	3-Spool, open center type with float detent on lift
Fluid Type	Bobcat Fluid, Hydraulic / Hydrostatic 6903117 - (2.5 Gal. container) 6903118 - (5 Gal. container) 6903119 - (55 Gal. container)
Fluid Lines	SAE Standard tubelines, hoses and fittings
Hydraulic Function Time: Raise Lift Arms Lower Lift Arms Bucket Dump Bucket Rollback	 3.10 Seconds 2.10 Seconds 1.90 Seconds 1.60 Seconds

Electrical

Starting Aid	Glow Plugs
Alternator	Belt driven, 40 Amp open frame w/ internal regulator
Battery	12 volts, 530 CCA @ 0°F (-18°C),
Starter	12 volts, gear type, 3.62 HP (2,7 kW)
Instrumentation	**Gauges:** Hourmeter, Fuel Level, Engine Coolant Temperature, Voltmeter **Warning lights:** Engine Oil Pressure, Hydraulic Oil Temperature **Other:** Lights, Opt./Accessory Switches or Indicators

Drive System

Drive System	Fully hydrostatic, track drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors

Capacities

Fuel	7 Gal. (26,5 L)
Engine Lubrication & Filter	3.4 qt. (3,2 L)
Engine Cooling System	5 qt. (4,7 L)
Hydraulic/Hydrostatic Reservoir Only (Center of Sight Glass)	2.5 Gal. (9,5 L)
Hydraulic/Hydrostatic System	5.3 Gal. (20,0 L)

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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-0206

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