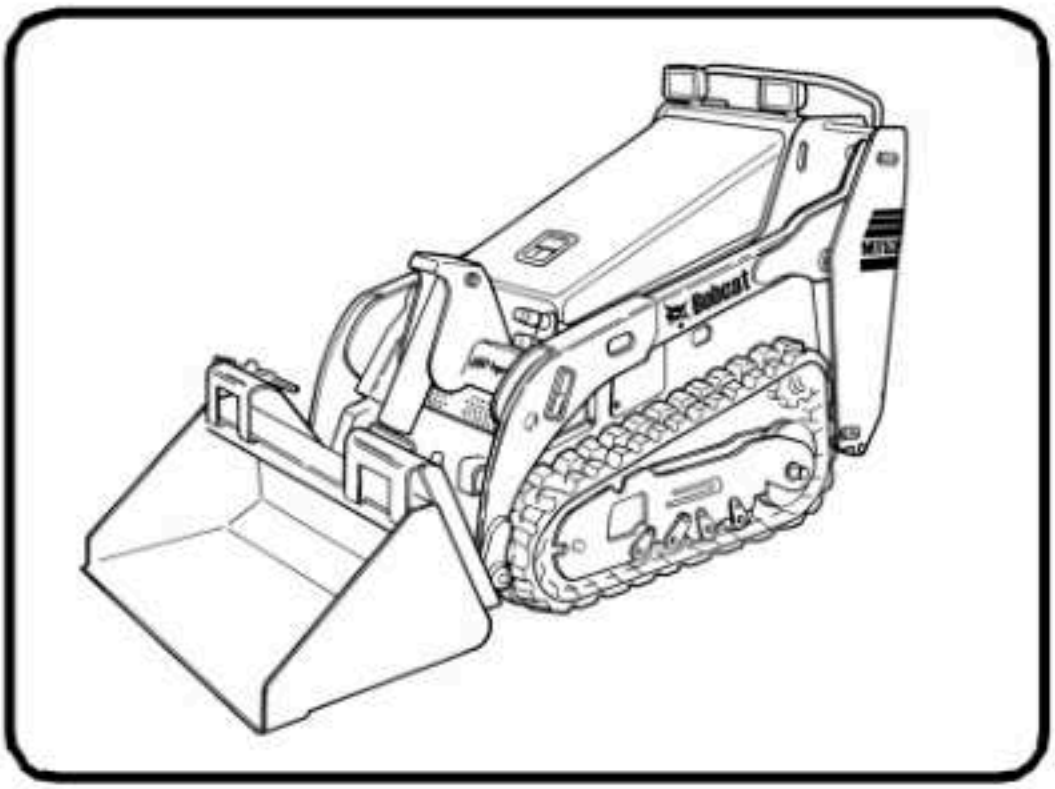
Bobcat®

Operation & Maintenance Manual
MT52 Mini Loader

S/N A3WR11001 & Above
S/N A3WS11001 & Above



6986856 (4-08) Revised (8-10) (2)

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.

Mini Loader 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

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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 BOBCAT LOADER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your loader.

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SERIAL NUMBER LOCATIONS 8
- Mini Loader Serial Number 8
- Engine Serial Number 8

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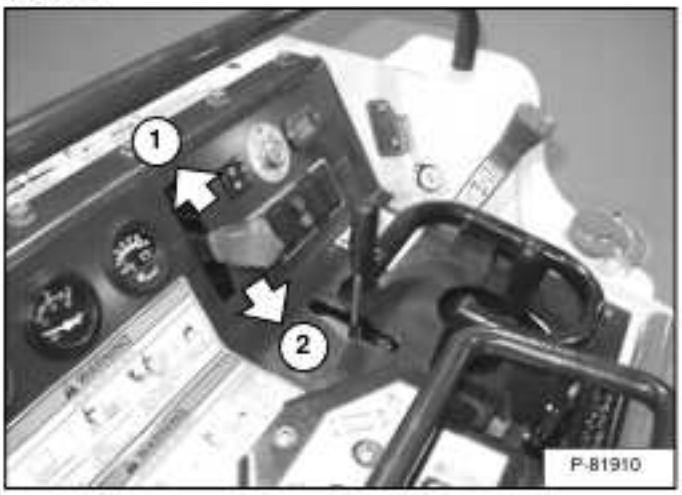
FEATURES, ACCESSORIES AND ATTACHMENTS 10
- Standard Items 10
- Options And Accessories 10
- Attachments 10
- Buckets Available 10

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ENGINE SPEED CONTROL

Operation

Figure 9



Move the engine speed control lever up (Item 1) to increase engine speed. Move the lever down (Item 2) **[Figure 9]** to decrease engine speed.

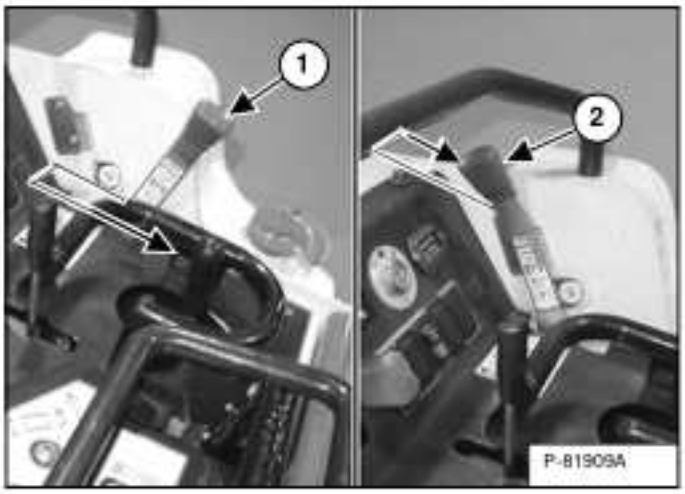
For maximum performance, run the engine at full speed.

PARKING BRAKE

Operation

Engage the parking brake whenever you stop the mini loader.

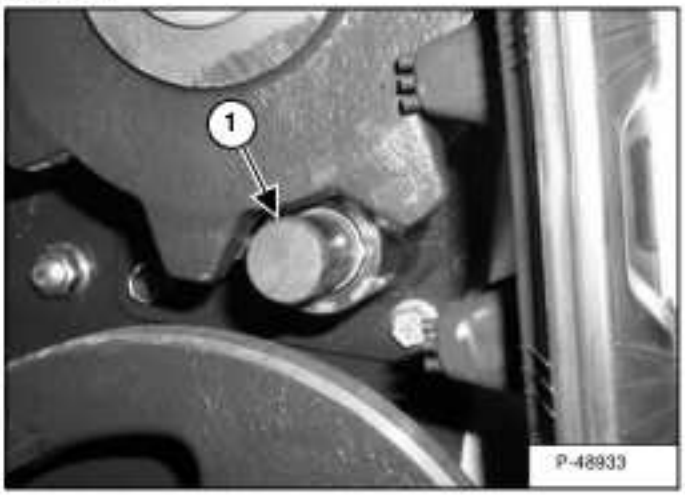
Figure 10



Move the parking brake lever slightly forward, to the left and then backward to engage the parking brake (Item 1) **[Figure 10]**.

Move the lever forward, to the right and then slightly backward (Item 2) **[Figure 10]** until the lever is inserted into the latch to disengage the parking brake.

Figure 11



NOTE: Move the machine forward or backward slightly to ensure both pins (Item 1) [Figure 11] are engaged (between the teeth of the track drive sprockets), or to remove load on pins when disengaging the parking brake.

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LUBRICATING THE MINI LOADER

Lubrication Locations

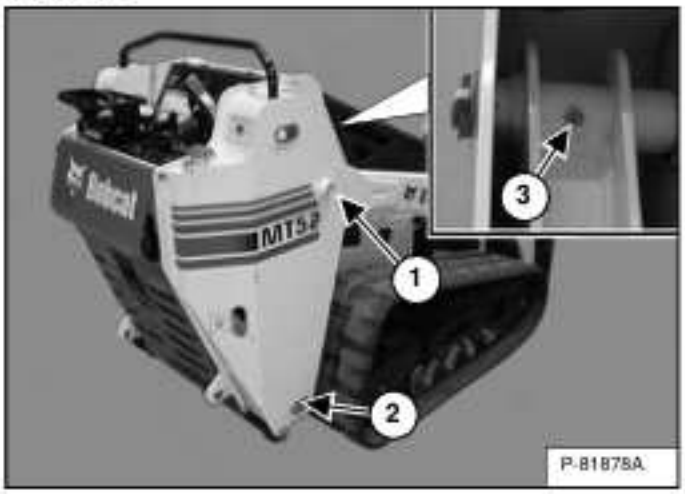
Lubricate the mini loader as specified for the best performance of the mini loader. (See SERVICE SCHEDULE on Page 59.)

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.

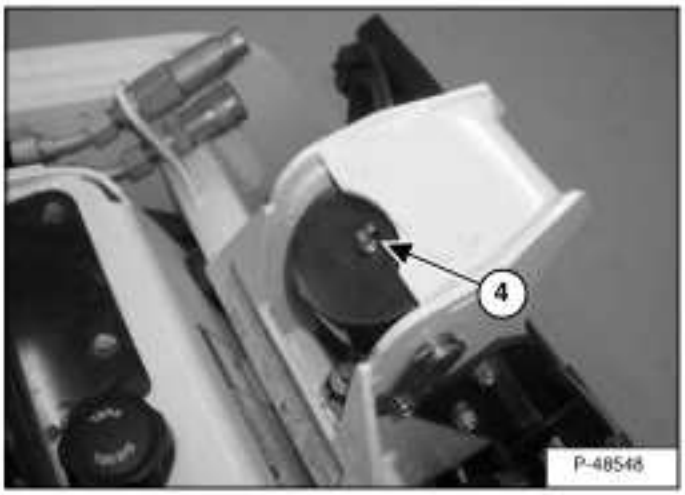
Lubricate the following locations:

Figure 113



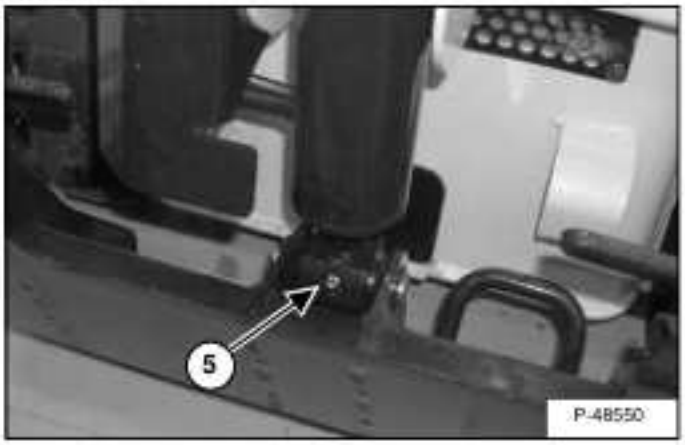
1. Lift Cylinder Rod End (Both Sides) **[Figure 113]**.
2. Lift Cylinder Base End (Both Sides) **[Figure 113]**.
3. Lift Arm Pivot (Both Sides) **[Figure 113]**.

Figure 114



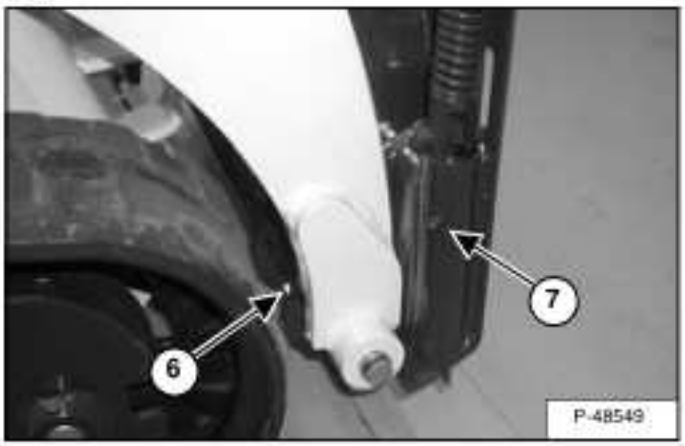
4. Tilt Cylinder Base End **[Figure 114]**.

Figure 115



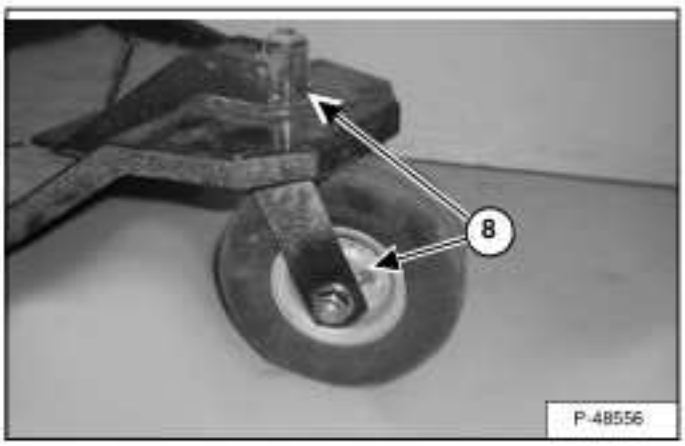
5. Tilt Cylinder Rod End **[Figure 115]**.

Figure 116



6. Bob-Tach Pivot Pin (Both Sides) **[Figure 116]**.
7. Bob-Tach Wedge (Both Sides) **[Figure 116]**.

Figure 117



8. **Early Models Only:** Ride-On Operator Platform Wheel and pivot **[Figure 116]** (If Equipped). (Later models use sealed bearings, no service required.)

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(MT52) MINI 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	2900 PSI (200 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	 3.0 Seconds 2.0 Seconds 1.7 Seconds 1.4 Seconds

Electrical

Starting Aid	Glow Plugs
Alternator	12 volts, 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 And 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

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 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 (ROC) 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, respiratory equipment, or hearing protection are required for some work. See your Bobcat dealer about Bobcat Safety Equipment.

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