

Product: Bobcat MT52 Mini Track Loader Service Repair Workshop Manual 523611001-523711001

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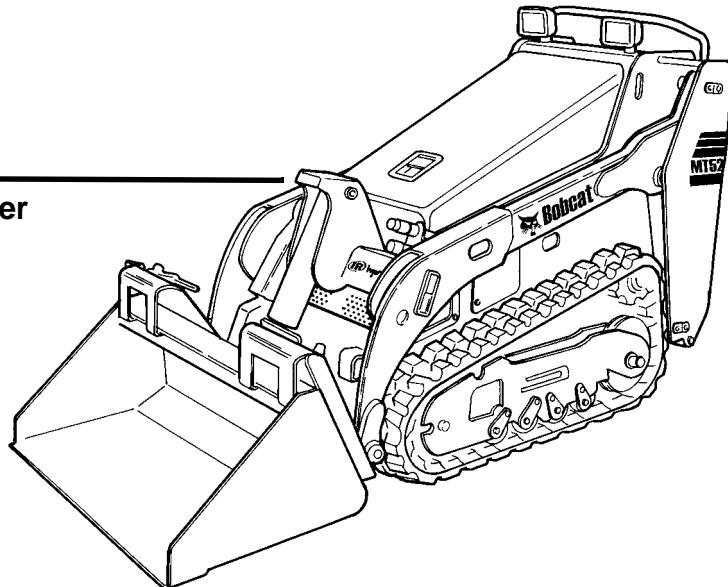


**Bobcat**®

# Service Manual

**S/N 523611001 & Above  
S/N 523711001 & Above**

Mini Track Loader



Sample of manual. Download All 386 pages at:

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# MAINTENANCE SAFETY

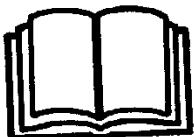


## WARNING

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



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

- ⚠ Never service the Bobcat Mini Track Loader without instructions.

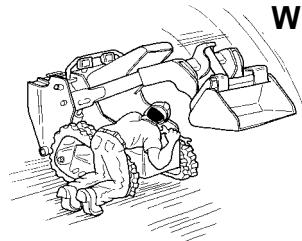
### WRONG



B-23041

- ⚠ 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.

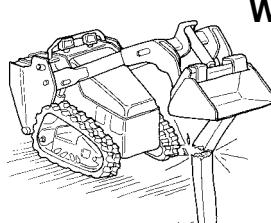
### WRONG



B-23035

- ⚠ 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.

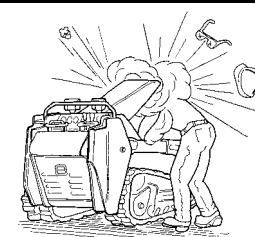
### WRONG



B-23036

- ⚠ 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.

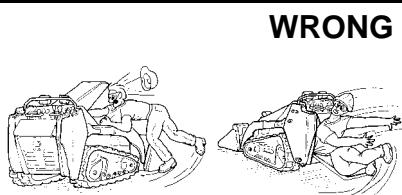
### WRONG



B-23039

- ⚠ 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-23040

- ⚠ 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.

MSW29-0805



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**SAFETY &  
MAINTENANCE**

**HYDRAULIC  
SYSTEM**

**HYDROSTATIC  
SYSTEM**

**DRIVE  
SYSTEM**

**MAIN FRAME**

**ELECTRICAL  
SYSTEM &  
ANALYSIS**

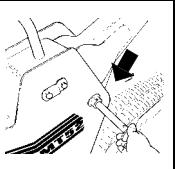
**ENGINE  
SERVICE**

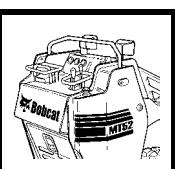
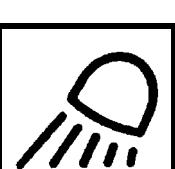
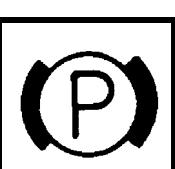
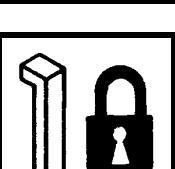
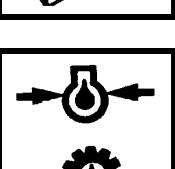
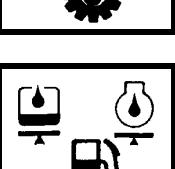
**SPECIFICATIONS**

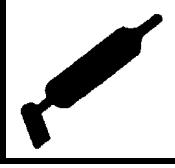
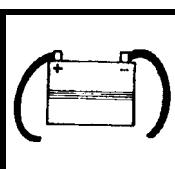
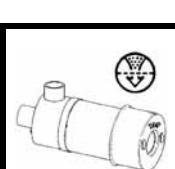
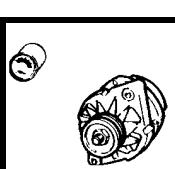
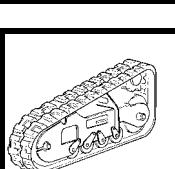
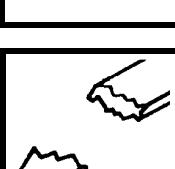
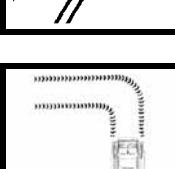
# FOREWORD

This manual is for the Bobcat loader mechanic. It provides necessary servicing and adjustment procedures for the Bobcat Mini loader and its component parts and systems. Refer to the Operation & Maintenance manual for operating instructions, Starting procedure, daily checks, etc.

A general inspection of the following items must be made after the loader has had service or repair:

1. Check lift arm support device, replace if damaged. (Stored Position)  

2. Machine signs must be legible and in the correct location.  

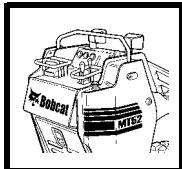
3. Controls must return to neutral.  

4. (Optional) Check for correct function of the work lights  

5. The parking brake must function correctly.  

6. Bob-Tach wedges and linkages must function correctly and be in good condition.  

7. Check for correct function of indicator lamps (Optional on some models).  

8. Check hydraulic fluid level, engine oil level and fuel supply.  

9. Inspect for fuel, oil or hydraulic fluid leaks.  

10. Lubricate the loader.  

11. Check the condition of the battery and cables.  

12. Inspect the air cleaner for damage or leaks. Check the condition of the element.  

13. Check the electrical charging system.  

14. Check tracks for wear and pressure.  

15. Inspect for loose or broken parts or connections.  

16. Operate the loader and check all functions.  


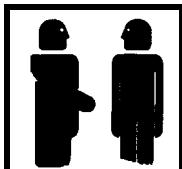
17. Check for any field modification not completed.



18. Check for correct function of lift/tilt lockouts, neutral start interlocks and reverse stop panel.



Recommend to the owner that all necessary corrections be made before the machine is returned to service.



**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.



**Bobcat**®

## SAFETY INSTRUCTIONS



### Safety Alert Symbol

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



### WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual 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-2411-1001



### 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

### IMPORTANT

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

I-2019-0284

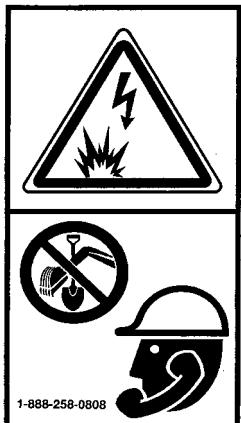
The following publications provide information on the safe use and maintenance of the Bobcat machine and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Mini Loader Safety Video is available from your Bobcat dealer or at [www.training.bobcat.com](http://www.training.bobcat.com) or [www.bobcat.com](http://www.bobcat.com).

SI ML-0206 SM

## SAFETY INSTRUCTIONS (CONT'D)

The dealer and owner/operator review the recommended uses of the product when delivered. If the owner/operator will be using the machine for a different application(s) he or she must ask the dealer for recommendations on the new use.



## Call Before You Dig

**1-888-258-0808**

When you call, you will be directed to a location in your state/city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.)

SI ML-0206 SM

**MT52 Bobcat Mini Track Loader  
Service Manual**

## SAFETY INSTRUCTIONS (CONT'D)

### Fire Prevention

The machine and attachments have components that are at high temperature under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

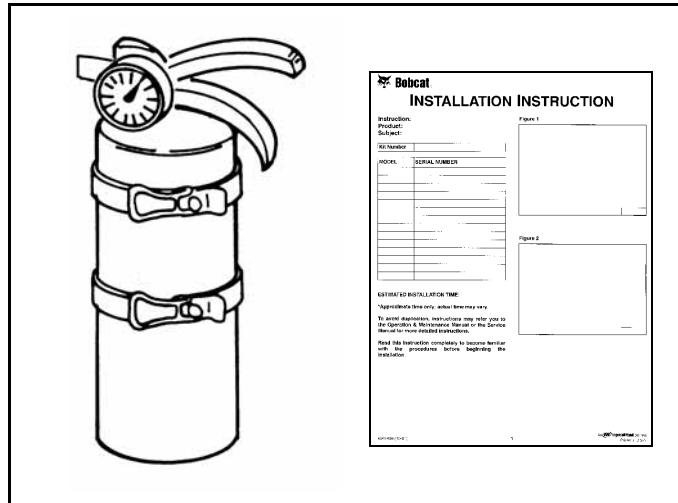
Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it will increase fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential hazard.

The spark arrestor muffler is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

- Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.
- The operator cab, engine compartment, and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazard and overheating.
- Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part.
- Check fuel and hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Tighten or replace any parts that show leakage. Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.
- Do not use ether or starting fluids on any engine which has glow plugs. These starting aids can cause explosion and injure you or bystanders.
- Always clean the machine, disconnect the battery, and disconnect the wiring from the controllers before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding. Have good ventilation when grinding or welding painted parts. Wear a dust mask when grinding painted parts. Toxic dust or gas can be produced.
- Stop the engine and let it cool before adding fuel. NO SMOKING!

- Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.
- Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor muffler (if equipped).

Figure 1



- Know where fire extinguishers and first aid kits are located and how to use them. Fire extinguishers are available from your Bobcat dealer [Figure 1].



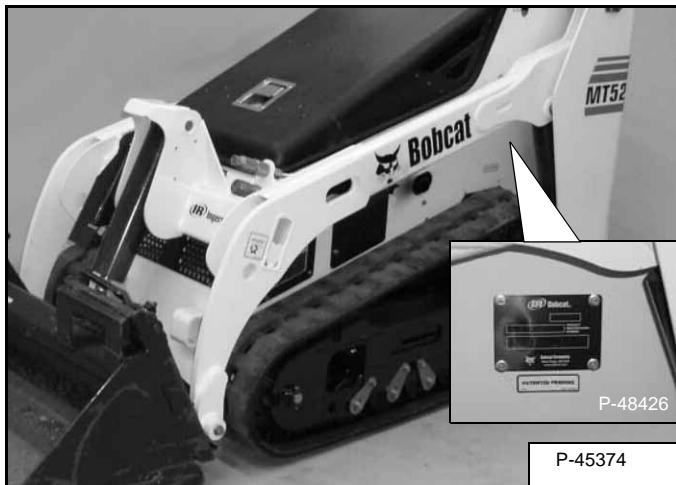
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## SERIAL NUMBER LOCATION

Always use the serial number of the loader when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

### Loader Serial Number

**Figure 2**



The loader serial number plate is located on the loader frame as shown [Figure 2].

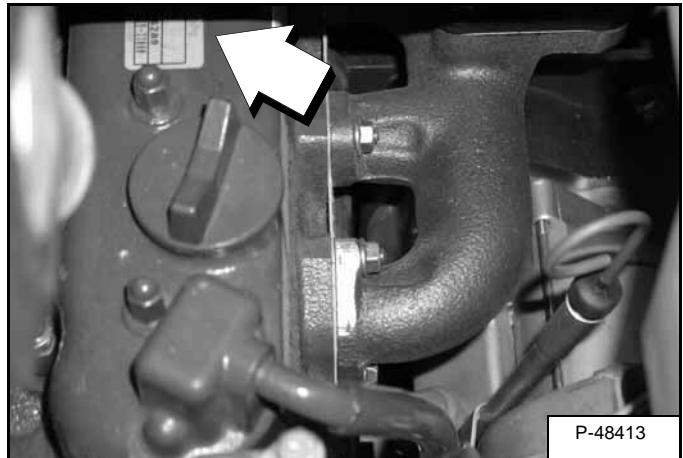
### Explanation of loader Serial Number:

XXXX	XXXXXX
Model 1.-Model/ Engine Combination	Model 2.-Production Sequence (Series)

1. The four digit Model/Engine Combination Module number identifies the model number and engine combination.
2. The five digit Production Sequence Number identifies the order which the loader is produced.

### Engine Serial Number

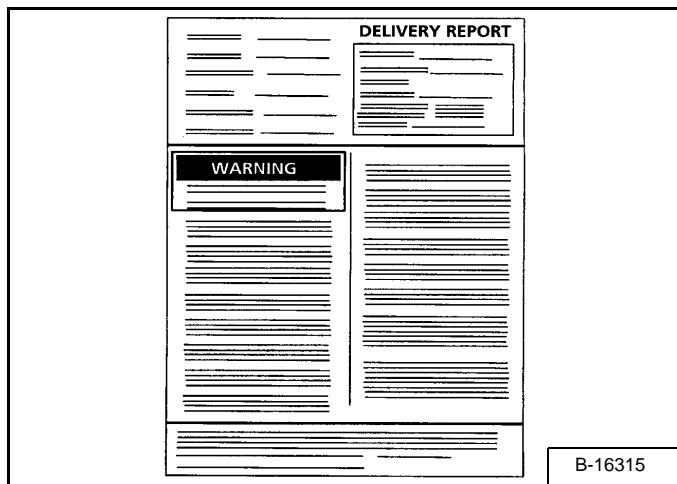
**Figure 3**



The engine serial number is in the location shown [Figure 3].

## DELIVERY REPORT

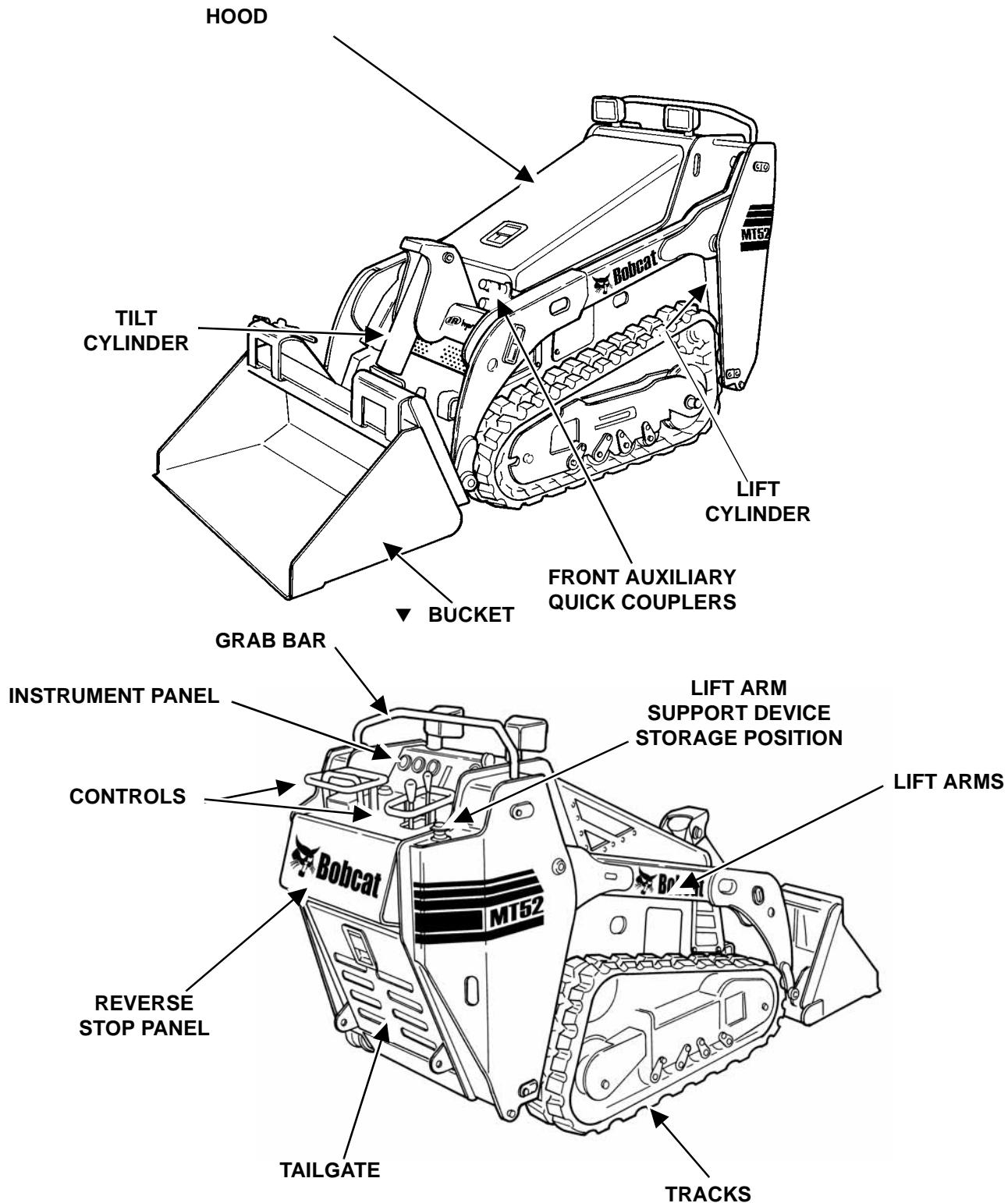
Figure 4



The image shows a 'DELIVERY REPORT' form. At the top left, there is a section with several horizontal lines for signatures or initials. To its right is a box labeled 'DELIVERY REPORT' containing more horizontal lines. Below these sections is a box labeled 'WARNING' containing several horizontal lines. To the right of the 'WARNING' box is a large area with many horizontal lines for detailed reporting. At the bottom right of the form is a small box containing the code 'B-16315'.

The Delivery Report must be filled out by the dealer and signed by the owner or operator when the Bobcat loader is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 4].

## BOBCAT LOADER IDENTIFICATION



▼ BUCKET - A bucket and other attachments are available for the Bobcat Mini Loader.

B-19984  
B-19999



**Bobcat**®

## SAFETY AND MAINTENANCE

## SAFETY & MAINTENANCE

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TRANSPORTING THE BOBCAT LOADER .....	10-30-1
Procedure .....	10-30-1

**TIGHTEN ALL HARDWARE PER SIZE TO GRADE 5 TORQUE (See TORQUE SPECIFICATIONS FOR BOLTS on Page SPEC-30-1.) UNLESS OTHERWISE SPECIFIED.**

## LIFTING AND BLOCKING THE LOADER

### Procedure

## ! WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual 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-2408-0801

Figure 10-10-1



B-7023A

Read the Removal & Installation, Disassembly & Assembly, etc. completely to become familiar with the procedure before beginning [Figure 10-10-1].

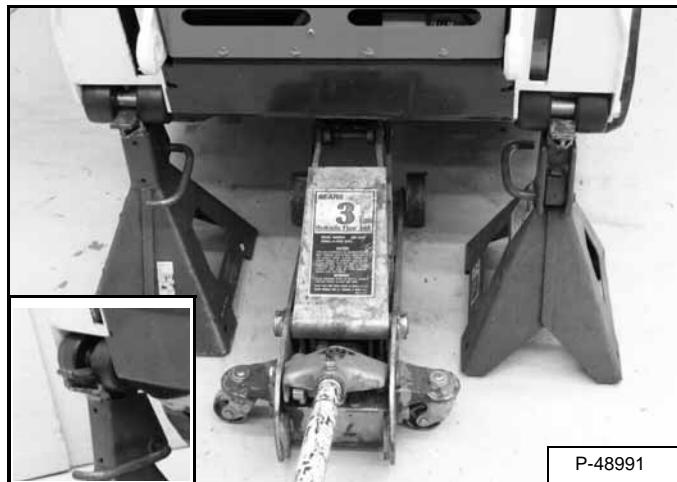
Always park the loader on a level surface.

## ! WARNING

When the engine is running during service, the steering control lever and hydraulic control levers must be in NEUTRAL and the parking brake engaged.

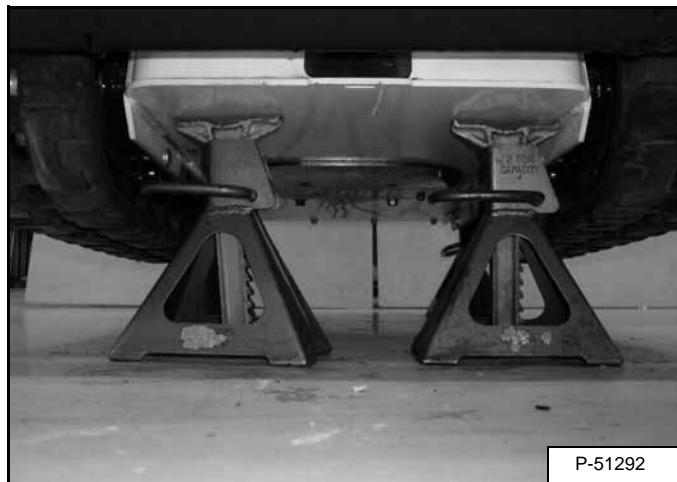
W-2488-1203

Figure 10-10-2



Raise the rear of the machine [Figure 10-10-2] and put jackstands under the rear roller wheels (Inset) [Figure 10-10-2]. Be sure the jackstands do not touch the tracks. Lower the machine to the jackstands.

Figure 10-10-3



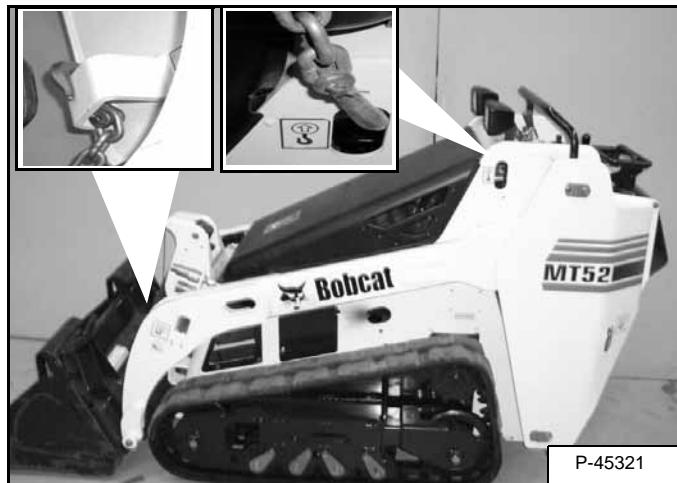
Raise the front of the machine and put jackstands under the front of the frame. [Figure 10-10-3]. Lower the machine to the jackstands.

**NOTE: Make sure the jackstands do not touch the tracks.**

## LIFTING AND BLOCKING THE LOADER (CONT'D)

### Four Point Lift

Figure 10-10-4



The loader can be lifted using four attachment points; two at the lower front of the loader frame and two at the upper end of the uprights **[Figure 10-10-4]**.

Be sure the lifting devices are of adequate strength to lift the loader. (See LOADER SPECIFICATIONS (MT52) on Page SPEC-10-1.) for weight of loader.)

## LIFT ARM SUPPORT DEVICE

### Installing Lift Arm Support Device



## WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by an approved lift arm support device. Failure to use an approved lift arm support device can allow the lift arms or attachment to fall and cause injury or death.

W-2059-0598

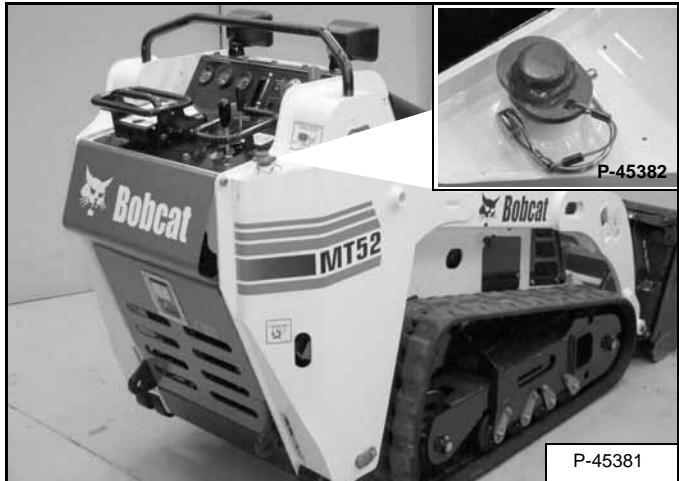


## WARNING

Service lift arm support device if damaged or if parts are missing. Using a damaged lift arm support or with missing parts can cause lift arms to drop causing injury or death.

W-2271-1197

Figure 10-20-1



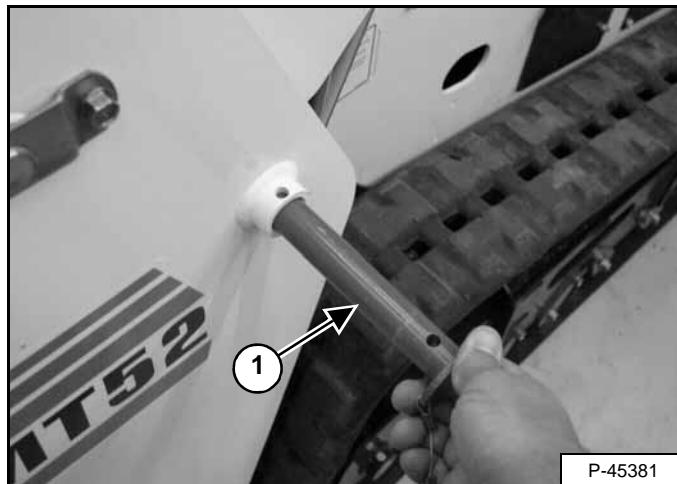
Put the loader on a flat, level surface.

Remove any attachment from the loader.

Remove the fastener and remove the lift arm support device (Inset) [Figure 10-20-1] from the storage position.

Start the engine, and raise the lift arms all the way up.

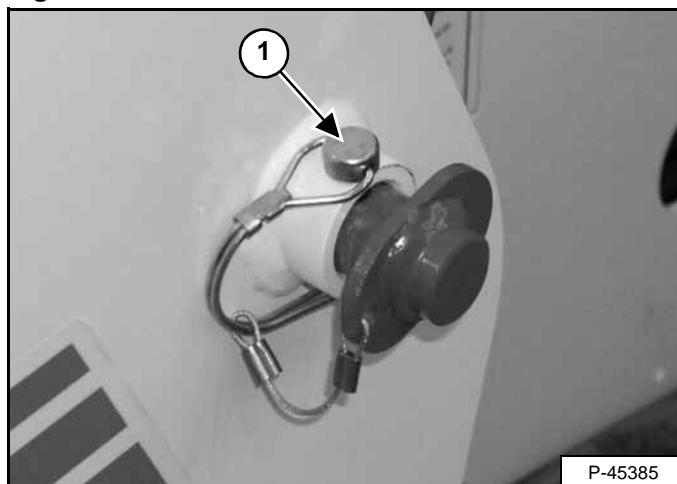
Figure 10-20-2



Install the lift arm support device (Item 1) [Figure 10-20-2] into the lift arm support bushings.

Make sure the pin passes through both the outside and inside bushings.

Figure 10-20-3



Install the fastener into the lift arm support device (Item 1) [Figure 10-20-3].

Lower the lift arms slowly until movement stops.

Stop the engine.

## LIFT ARM SUPPORT DEVICE

### Removing Lift Arm Support Device

Start the engine and raise the lift arms off the lift arm support device.

Remove the fastener (Item 1) [**Figure 10-20-3**].

Remove the lift arm support device from the bore.

Lower the lift arms and stop the engine.

Return the lift arm support device to the storage location.

Install the fastener to secure the lift arm support device.

## TRANSPORTING THE BOBCAT LOADER

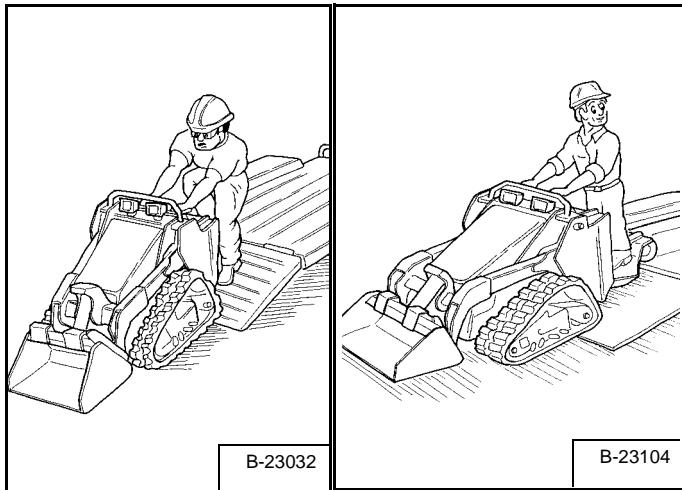
### Procedure

## ! WARNING

Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

W-2058-0494

Figure 10-30-1



Be sure the trailer or vehicle and ramps are of adequate size and capacity (See LOADER SPECIFICATIONS (MT52) on Page SPEC-10-1.) for weight of loader.

A mini loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle [Figure 10-30-1].

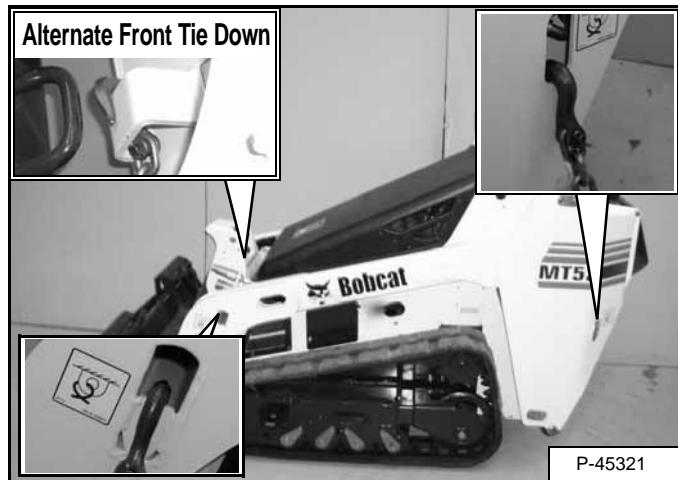
Use a full width ramp when loading a machine with Ride-On Platform [Figure 10-30-1]. The platform will pivot as you move up the ramp.

**NOTE: Do not load the machine on a trailer with the Ride-On Platform installed unless you have a full width ramp. Remove the platform if a full width ramp is not available.**

When using adjustable ramps, be sure the ramp width and spacing adequately cover the tread width. Do not attempt to mount ramps that are spaced too wide or too narrow.

The rear of the trailer must be blocked or supported (Item 1) [Figure 10-30-1] when loading or unloading the loader to prevent the front end of the trailer from raising up.

Figure 10-30-2



Use the following procedure to fasten the Bobcat loader to the transport vehicle to prevent the loader from moving during sudden stops or when going up or down slopes [Figure 10-30-2].

- Lower the bucket or attachment all the way.
- Stop the engine and engage the parking brake.
- Install chains at the front and rear loader tie down positions [Figure 10-30-2]. (Both sides)
- Fasten each end of the chain to the transport vehicle.



**Bobcat**®

## **TOWING THE LOADER**

### **Procedure**

**TOWING IS NOT RECOMMENDED**



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## SERVICE SCHEDULE

### Chart

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 loader.



**Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual 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-2408-0801

ITEM	SERVICE REQUIRED	HOURS					
		8-10	50	100	■ 250	■ 500	■ 1000
Engine Oil	Check the oil level and add as needed. Do not overfill.						
Engine Air Filter and Air System	Check condition indicator. Service only when required. Check for leaks and damaged components.						
Hydraulic Cooling System	Open hood. Clean debris from oil cooler and electric fan area. Check coolant level in cold. Add premixed coolant as needed.						
Fuel Filter	Remove trapped water.						
Hydraulic Fluid	Check fluid level and add as needed.						
Lift Arms, Cylinders, Bob-Tach Pivot Pins and Wedges	Lubricate with multi-purpose lithium based grease.						
Track Rollers & Idlers	Grease the track rollers & idlers.						
Reverse Stop Panel	Inspect for correct function. Adjust or replace as needed. Clean dirt or debris from moving parts.						
Neutral Start Interlocks	Inspect for correct function. Repair as needed.						
Lift/Tilt Lockouts	Inspect for correct function. Repair as needed.						
Parking Brake	Check operation.						
Safety Signs	Check for damaged signs (decals). Replace any signs that are damaged or worn.						
Gauges, Indicators & Lights (Opt.)	Check for correct operation of all gauges indicators & lights.						
Hydraulic Fluid, Hoses and Tubelines	Check fluid level and add as needed. Check for damage and leaks. Repair or replace as needed.						
Control Levers	Check for correct operation. Repair or adjust as needed.						
Under carriage	Check for loose bolts and nuts.						
Tracks	Check for damaged or worn tracks and correct tension.	*					
Engine Compartment	Check for dirt or debris on the floor of the engine compartment and clean as necessary.						
Battery	Check cables, connections and electrolyte level. Add distilled water as needed.						
Water Pump/Alternator/Fan Belt	Check belt tension and adjust or replace as needed.						
Engine Oil and Filter	Replace oil and filter. Use CD or better grade oil and Bobcat filter.	^					
Spark Arrestor Muffler	Clean the spark chamber.						
Fuel Filter	Replace the filter element. Use a genuine Bobcat filter.						
Lift Arm Lockout	Check function of manual by-pass control.						
Hydraulic Filter	Replace the filter element.	●					
Hydraulic Reservoir Breather Cap	Replace the reservoir breather cap.						
Hydraulic Reservoir	Replace the fluid.						

■ Or every 12 months.

^ First oil and filter change must occur at 50 hours; 100 hours thereafter.

● Replace filter element after the first 50 hours; 500 hours thereafter.

\* Check every 8-10 hours for the first 50 hours of operation; then at 50 hour intervals.

Product: Bobcat MT52 Mini Track Loader Service Repair Workshop Manual 523611001-523711001

Full Download: <https://www.arepairmanual.com/downloads/bobcat-mt52-mini-track-loader-service-repair-workshop-manual-523611001-523711001>

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MT52 Bobcat Mini Track Loader

Service Manual