



# Bobcat®

## Service Manual



**MT85**

### **MT85 Mini Track Loader**

**S/N B3TR11001 & Above**





# MAINTENANCE SAFETY

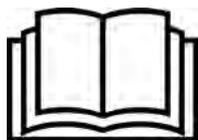


## WARNING

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-2003-0807

### CORRECT



P-90216

- ⚠ Never service the Bobcat Mini Track 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.

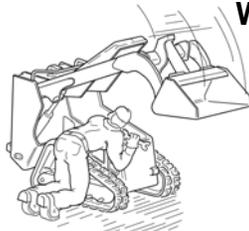
### WRONG



B-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



NA9783

- ⚠ 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



NA9784

- ⚠ 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.

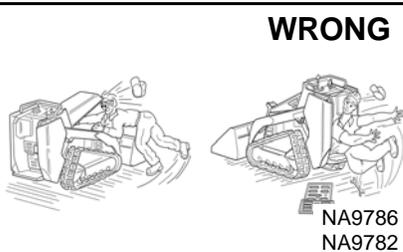
### WRONG



NA9785

- ⚠ 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



NA9786  
NA9782

- ⚠ 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.

MSW45-1015



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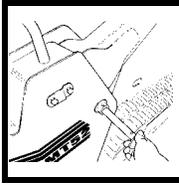
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# FOREWORD

This manual is for the Bobcat mini track loader mechanic. It provides necessary servicing and adjustment procedures for a Bobcat mini track 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 (decals) must be legible and in the correct location.



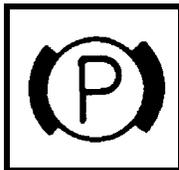
3. Controls must return to neutral.



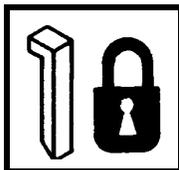
4. Check for correct function of the optional work lights.



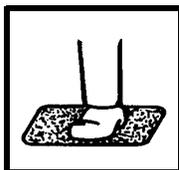
5. The parking brake must function correctly.



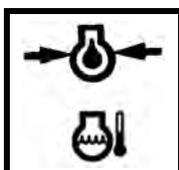
6. Bob-Tach wedges and linkages must function correctly and be in good condition.



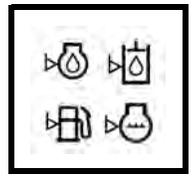
7. Safety treads must be in good condition on the operator platform.



8. Check for correct function of indicator lamps.



9. Check all machine fluid levels.



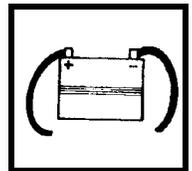
10. Inspect for fuel, oil or hydraulic fluid leaks.



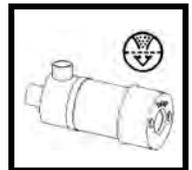
11. Lubricate the mini loader.



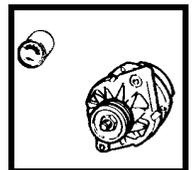
12. Check the condition of the battery and cables.



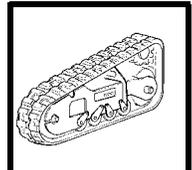
13. Inspect the air cleaner for damage or leaks. Check the condition of the element.



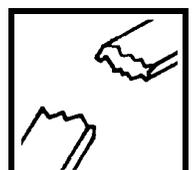
14. Check the electrical charging system.



15. Check tracks for wear and tension. Use only approved tracks.



16. Inspect for loose or broken parts or connections.

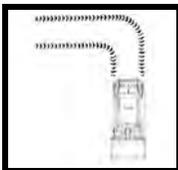


FW MT85-0617 SM

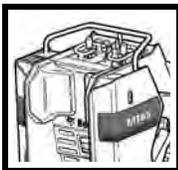
17. Check for any field modification not completed.



18. Operate the machine and check all functions.



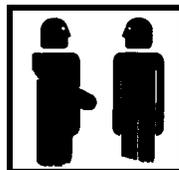
19. Check for correct function of lift/tilt lockouts and neutral start interlocks.



20. Check function or condition of all equipped options and accessories (examples: shutdown kit, attachment control kit, light kit, etc.).



21. 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.

## SAFETY INSTRUCTIONS

	<b>Safety Alert Symbol</b>
<p>This symbol with a warning statement means: “Warning, be alert! Your safety is involved!” Carefully read the message that follows.</p>	



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



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

I-2019-0284



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



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 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 [Bobcat.com/training](http://Bobcat.com/training) or [Bobcat.com](http://Bobcat.com).

## 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.



Cutting or drilling concrete containing sand or rock containing quartz may result in exposure to silica dust. Do not exceed Permissible Exposure Limits (PEL) to silica dust as determined by OSHA or other job site Rules and Regulations. Use a respirator, water spray or other means to control dust. Silica dust can cause lung disease and is known to the state of California to cause cancer.

**Call Before You Dig**  
**Dial 811 (USA Only)**  
**1-888-258-0808 (USA & Canada)**

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

## FIRE PREVENTION



### Maintenance

The machine and some attachments have components that are at high temperatures 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 can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

### Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

### Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

## Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. 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.

### Fueling



Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Ultra Low Sulfur Diesel (ULSD) poses a greater static ignition hazard than earlier diesel formulations with higher Sulfur content. Avoid death or serious injury from fire or explosion. Consult with your fuel or fuel system supplier to ensure the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

### Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

### Spark Arrester Exhaust System

The spark arrester exhaust system 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.

Check the spark arrester exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrester muffler (if equipped).

## **FIRE PREVENTION (CONT'D)**

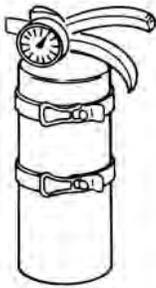
### **Welding And Grinding**

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Bobcat 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 dust mask when grinding painted parts. Toxic dust or gas can be produced.

Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

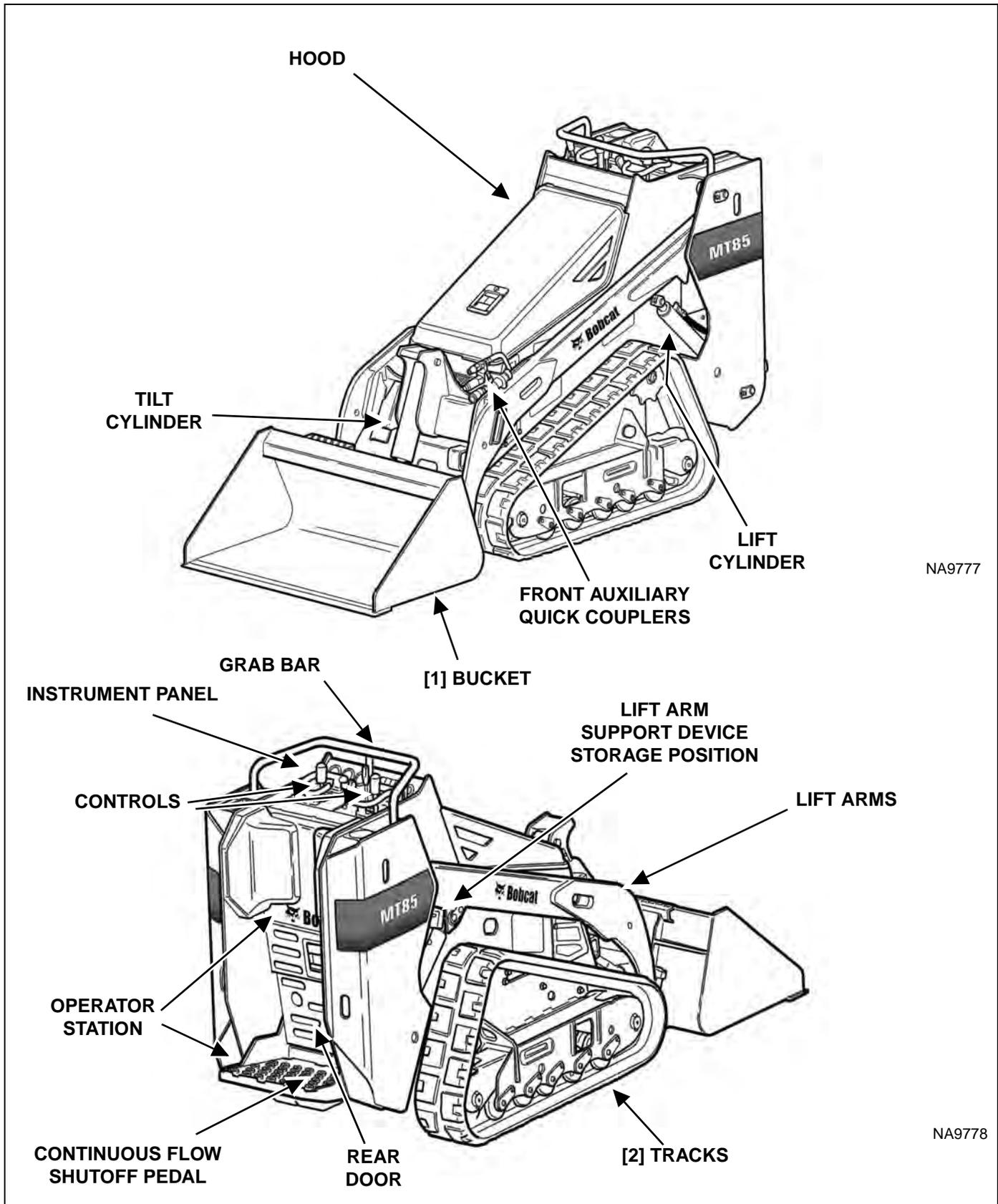
### **Fire Extinguishers**



Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.



## MINI TRACK LOADER IDENTIFICATION



- [1] BUCKETS - Several different buckets and other attachments are available for the Bobcat Mini Track Loader.  
[2] TRACKS - Optional track widths are available.

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## LIFTING AND BLOCKING THE MINI 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



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

Always park the loader on a level surface.

# ! WARNING

**MACHINE FALLING OR MOVING CAN CAUSE  
SERIOUS INJURY OR DEATH**

Put jackstands under the front and rear of the machine before running engine for service.

W-2718-0208

Figure 10-10-2



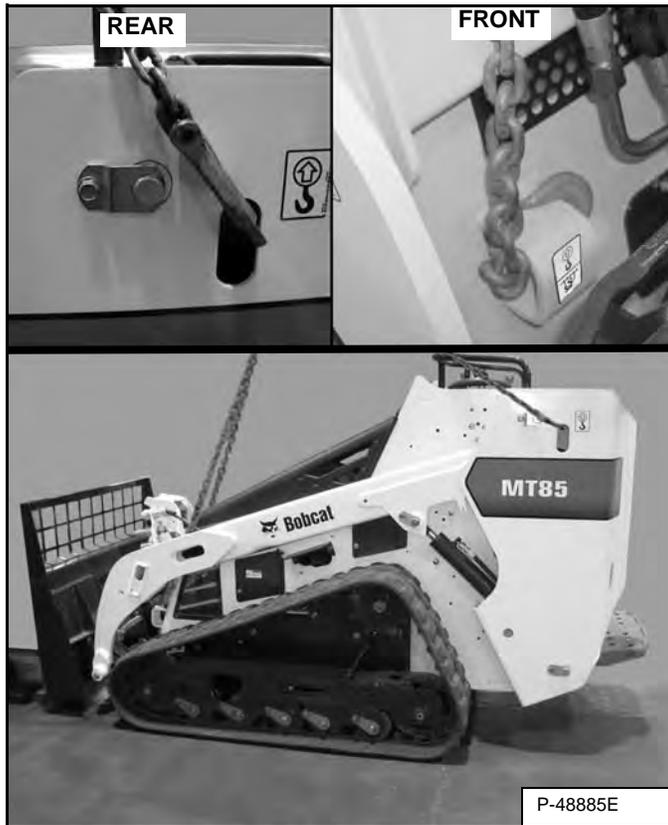
Raise the front and rear of the machine and put jackstands under each corner [Figure 10-10-2]. Lower the machine to the jackstands.

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

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

### Four Point Lift

Figure 10-10-3



The mini loader can be lifted using four attachment points; two at the lower front of the mini loader frame and two at the upper end of the uprights [Figure 10-10-3].

Be sure the lifting devices are of adequate strength to lift the mini loader. For weight of mini loader (See (MT85) MINI TRACK LOADER SPECIFICATIONS on Page SPEC-10-1.)

## **WARNING**

### **AVOID INJURY OR DEATH**

**Never allow bystanders within 5 m (15 ft) while lifting the machine.**

W-2710-0910

## LIFT ARM SUPPORT DEVICE

### Installing

# ! 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

Repair the support device if damaged or if parts are missing. Using a damaged support device or with missing parts can cause lift arms or boom to fall causing serious injury or death.

W-2271-1007

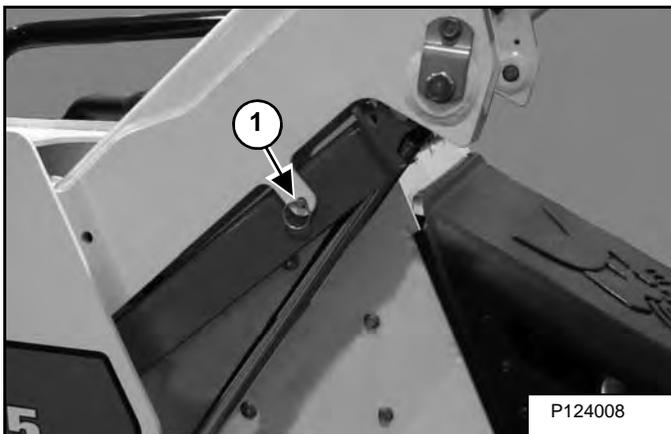
Stop the loader on a flat, level surface. Engage the parking brake.

Remove any attachment from the loader.

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

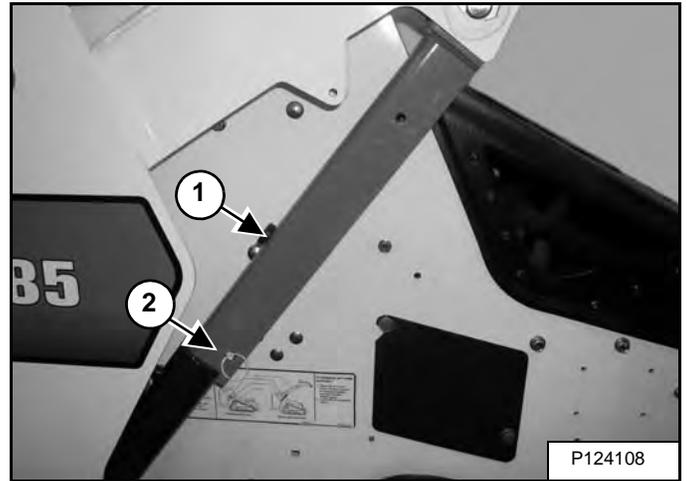
Stop the engine and exit the operator station.

Figure 10-20-1



Remove the retainer pin (Item 1) [Figure 10-20-1] and lower the lift arm support device from the storage position.

Figure 10-20-2



Place the lift arm support device (Item 1) over the hydraulic cylinder as shown in [Figure 10-20-2].

Install the retaining pin (Item 2) [Figure 10-20-2] into the rear of the lift arm support device below the cylinder rod.

Enter the operator station and start the engine.

Slowly lower the lift arms until movement stops.

Stop the engine.

### Removing

Remove the retaining pin (Item 2) [Figure 10-20-2] from the lift arm support device.

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

Stop the engine and exit the operator station.

Return the lift arm support device to the storage location and secure it with the retaining pin (Item 1) [Figure 10-20-1].

Enter the operator station and start the engine.

Lower the lift arms and stop the engine.



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## TRANSPORTING THE MINI LOADER ON A TRAILER

### Loading And Unloading



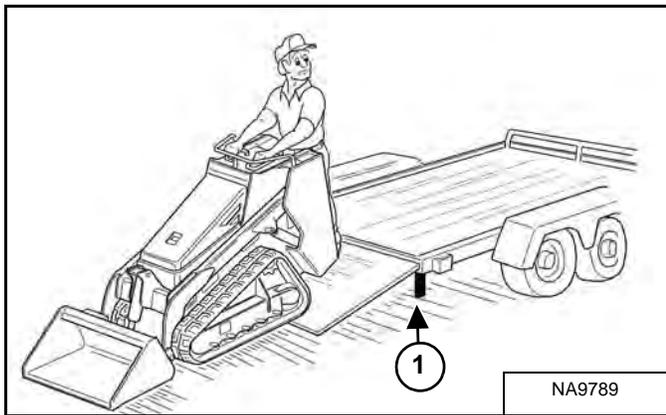
#### AVOID SERIOUS INJURY OR DEATH

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-2058-0807

Be sure the trailer or vehicle and ramps are of adequate size and capacity. (See (MT85) MINI TRACK LOADER SPECIFICATIONS on Page SPEC-10-1.)

Figure 10-30-1



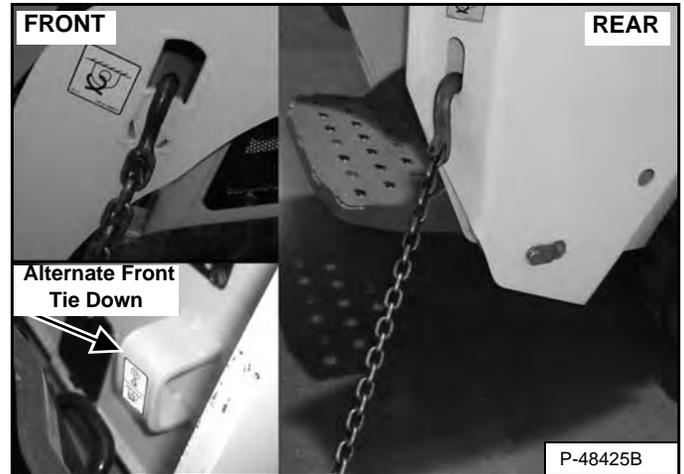
A mini track loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle [Figure 10-30-1].

When using adjustable ramps, be sure the ramp width and spacing adequately covers 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 mini track loader to prevent the front end of the trailer from raising up.

## Fastening

Figure 10-30-2



Fasten the mini track loader to the transport vehicle to prevent it from moving during sudden stops or when going up or down slopes [Figure 10-30-2].

- Lower the bucket or attachment fully.
- Stop the engine.
- Install chains at the front and rear tie down positions [Figure 10-30-2]. (Both sides)
- Fasten each end of the chain to the transport vehicle.
- Use load binders to tighten the chains.



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## TOWING THE MINI LOADER

### Procedure

Because of the design of the mini loader, there is not a recommended towing procedure.

- The mini loader can be lifted onto a transport vehicle.
- The mini loader can be skidded a short distance to move for service (EXAMPLE: Move onto a transport vehicle.) without damage to the hydrostatic system. (The tracks will not turn.) There might be slight wear to the tracks when the mini loader is skidded.

The towing chain (or cable) must be rated at 1.5 times the weight of the mini loader. (See Performance on Page SPEC-10-3.)



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## SERVICE SCHEDULE

### Maintenance Intervals

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 mini track loader.



#### AVOID INJURY OR DEATH

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-2003-0807

#### *Every 10 Hours (Before Starting The Mini Track Loader)*

- **Engine Oil** - Check level and add as needed.
- **Engine Air Filters and Air System** - Check air filter condition indicator. Service filters only when required. Check for leaks and damaged components.
- **Engine Cooling System** - Clean debris from radiator and oil cooler areas. Check coolant level COLD and add premixed coolant as needed.
- **Fuel Filter** - Drain water and sediment from filter.
- **Hydraulic Fluid** - Check fluid level and add as needed. Do not over fill.
- **Lift Arms, Cylinders, Bob-Tach Pivot Pins & Wedges / CII Pivot Pins & Mounting Pins, Undercarriage Rollers & Idlers** - Lubricate with multipurpose lithium based grease.
- **Reverse Stop Panel (If Equipped), Neutral Start Interlocks, and Lift / Tilt Lockouts Systems** - Check for correct function. Clean dirt and debris from moving parts.
- **Parking Brake** - Check for proper function.
- **Indicators and Lights** - Check for function. Clean or repair as needed.
- **Safety Signs** - Check for damaged signs (decals). Replace any signs that are damaged.
- **General** - Clean dirt and debris from the operator position. Check for loose or broken parts, instrument operation, loose bolts or nuts, and oil leaks.
- **Continuous Flow Shutoff System** - Check for proper function.

#### *Every 50 Hours*

- **Hydraulic Hoses and Tubelines** - Check for damage and leaks. Repair or replace as needed.
- **Controls** - Check for correct operation. Adjust, repair or replace as needed.
- **Undercarriage** - Check for loose bolts and nuts.
- **Track Tension** - Check every 8 - 10 hours for the first 50 hours, then as scheduled. Check tension and adjust as needed.

#### *Every 100 Hours*

- **Engine Oil and Filter** - Service at first 50 hours, then as scheduled. Replace oil and filter.
- **Battery** - Check battery for damage. Check cables, connections, and electrolyte level; add distilled water as needed.
- **Drive Belts (Alternator / Water Pump / Fan Drive)** - Check condition. Replace as needed.
- **Spark Arrester Muffler** - Clean spark chamber.

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## SERVICE SCHEDULE (CONT'D)

### Maintenance Intervals (Cont'd)

*Every 250 Hours Or Every 12 Months*

- **Fuel Filter** - Replace filter.
- **Lift Arm Lockout** - Check function of manual bypass control.

*Every 500 Hours Or Every 12 Months*

- **Hydraulic Filter and Hydraulic Reservoir Breather Cap** - Service filter at first 50 hours, then as scheduled. Replace the hydraulic filter and the reservoir breather cap.
- **Drive Belt (Hydrostatic)** - Check condition. Adjust or replace as needed.
- **Alternator and Starter** - Service at first 50 hours, then as scheduled. Check connections.

*Every 1000 Hours Or Every 12 Months*

- **Engine Valves** - Service at first 500 hours, then as scheduled. Adjust the engine valve clearance.
- **Hydraulic Fluid and Filters** - Replace hydraulic fluid and filters.

*Every 24 Months*

- **Coolant** - Replace the coolant.

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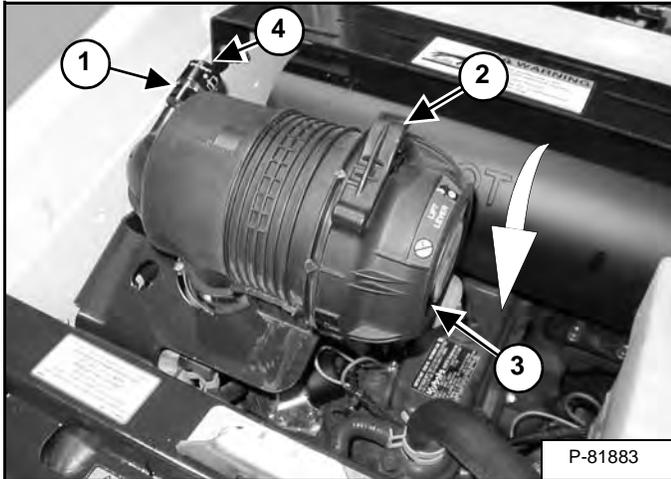
## AIR CLEANER SERVICE

### Replacing Filter Elements

It is important to change the air filter element at regular intervals.

For the correct interval (See SERVICE SCHEDULE on Page 10-50-1.)

**Figure 10-60-1**



Replace the Outer Filter only when the red ring shows in the condition indicator window (Item 1) [Figure 10-60-1].

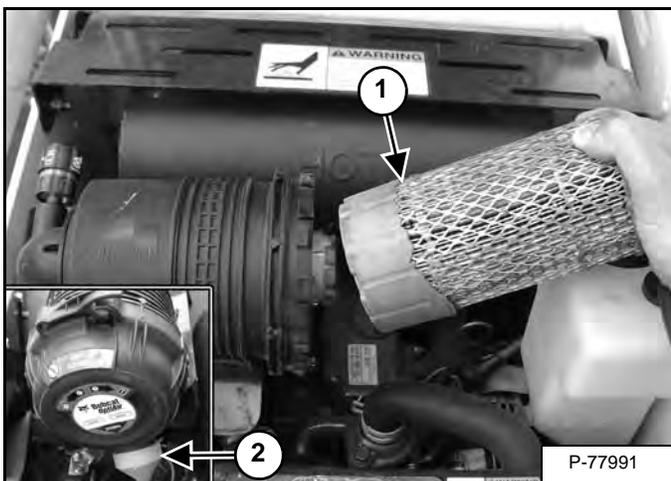
Replace the inner filter every third time the outer filter is replaced or as indicated below.

#### Outer Filter

Pull up on the locking lever (Item 2) [Figure 10-60-1] and hold while turning the dust cover (Item 3) [Figure 10-60-1] counterclockwise.

Remove and clean the dust cover.

**Figure 10-60-2**



Remove the outer filter element (Item 1) [Figure 10-60-2].

**NOTE: Make sure all sealing surfaces are free of dirt and debris. Do not use air pressure to clean.**

Install a new outer filter element.

Install the dust cover. Be sure the air cleaner valve (Item 2) [Figure 10-60-2] is down. Turn the dust cover clockwise and engage the locking lever.

Check the air intake hose and the air cleaner housing for damage. Make sure all connections are tight.

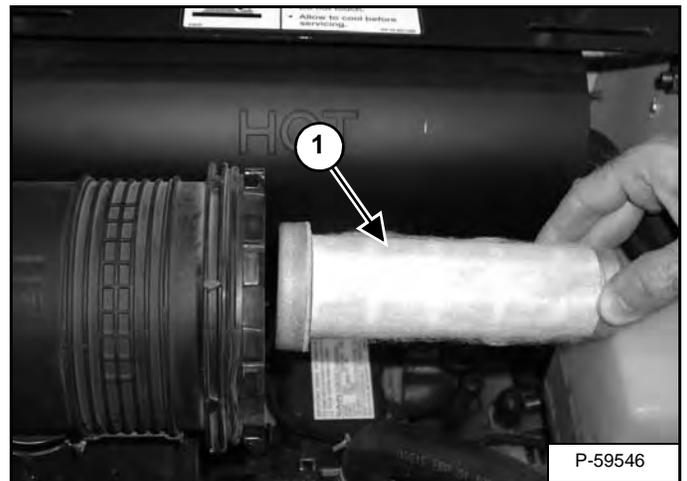
Press the button (Item 4) [Figure 10-60-1] to remove the red ring on the condition indicator.

#### Inner Filter

Only replace the inner filter under the following conditions:

- Replace the inner filter every *third* time the outer filter is replaced.
- After the outer filter has been replaced, press the button (Item 4) [Figure 10-60-1] on the top of the condition indicator and start the engine. Run at full rpm, then reduce engine speed and stop the engine. If the red ring shows in the condition indicator, replace the inner filter.

**Figure 10-60-3**



Remove the dust cover, outer filter and inner filter.

**NOTE: Make sure all sealing surfaces are free of dirt and debris.**

Install the new inner filter (Item 1) [Figure 10-60-3].

Install the outer filter.

Install the dust cover. Be sure the air cleaner valve (Item 2) [Figure 10-60-2] is down. Turn cover clockwise 1/8 turn to engage the latch.

Press the button (Item 4) [Figure 10-60-1] on the condition indicator to remove the red ring.



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