



# Bobcat®

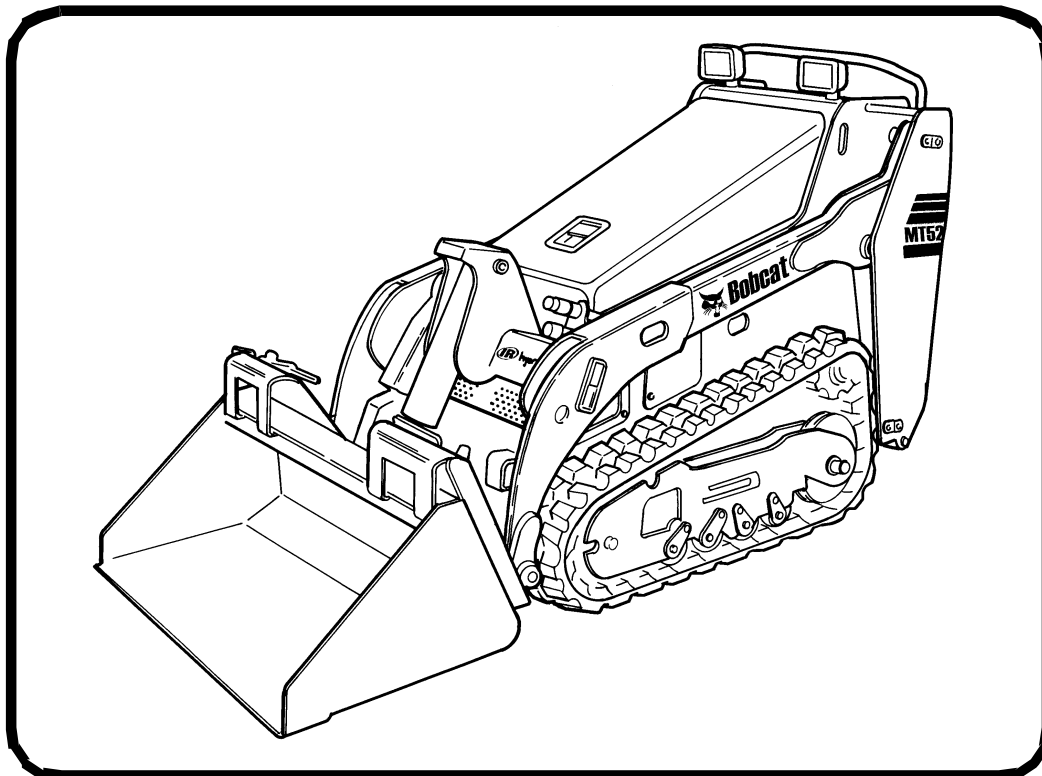
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## Service Manual

# MT52, MT55 Mini Track Loader

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**S/N A3WR11001 & Above**  
**S/N A3WT11001 & Above**  
**S/N A3WS11001 & Above**  
**S/N A3WU11001 & Above**



**EQUIPPED WITH**  
**BOBCAT INTERLOCK**  
**CONTROL SYSTEM (BICS™)**

Sample of manual. Download All 403 pages at:

<https://www.arepairmanual.com/downloads/bobcat-mt52-mt55-mini-track-loader-service-repair-workshop-manual-2/>



Product: Bobcat MT52/MT55 Mini Track Loader Service Repair Workshop Manual

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<https://www.arepairmanual.com/downloads/bobcat-mt52-mt55-mini-track-loader-service-repair-workshop-manual-2/>

# 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.

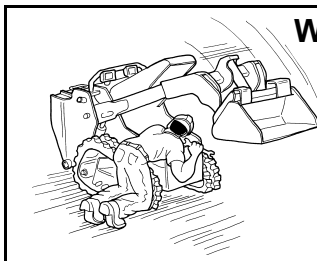
### WRONG



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.

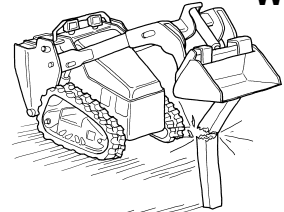
### WRONG



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.

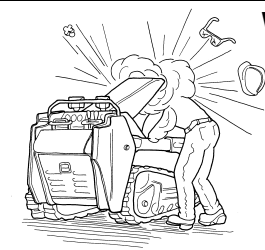
### WRONG



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.

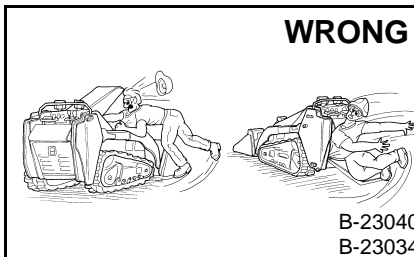
### WRONG



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  
B-23034

- ⚠ 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.

MSW29-0409



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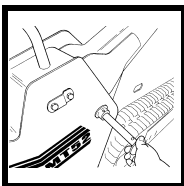


# FOREWORD

This manual is for the Bobcat mini 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:

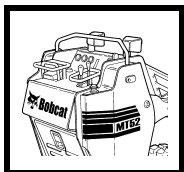
1. Check lift arm support device, replace if damaged. (Stored Position)



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



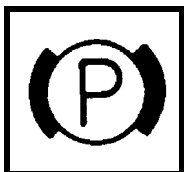
3. Controls must return to neutral.



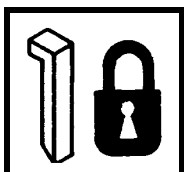
4. Check for correct function of the optional work lights.



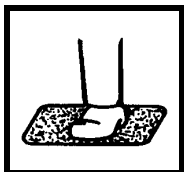
5. The parking brake must function correctly.



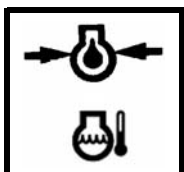
6. Bob-Tach wedges and linkages must function correctly and be in good condition.



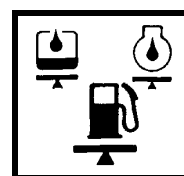
7. Safety treads must be in good condition on the optional platform.



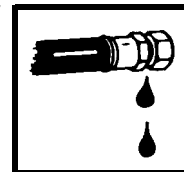
8. Check for correct function of indicator lamps.



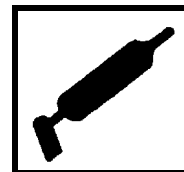
9. Check hydraulic fluid level, engine oil level and fuel supply.



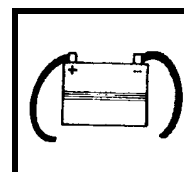
10. Inspect for fuel, oil or hydraulic fluid leaks.



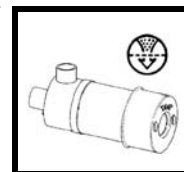
11. Lubricate the mini loader.



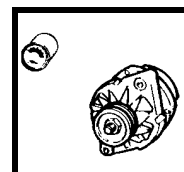
12. Check the condition of the battery and cables.



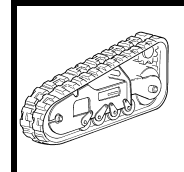
13. Inspect the air cleaner for damage or leaks. Check the condition of the element.



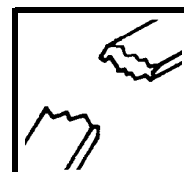
14. Check the electrical charging system.



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



16. Inspect for loose or broken parts or connections.

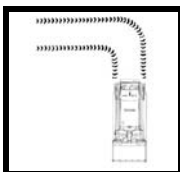


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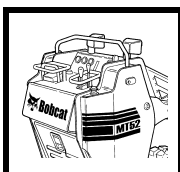
17. Check for any field modification not completed.



18. Operate the machine and check all functions.



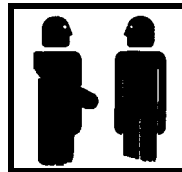
19. Check for correct function of lift/tilt lockouts, neutral start interlocks and reverse stop panel.



20. Check function or condition of all equipped options and accessories (examples: ride-on platform, 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



### 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

## 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 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-0308 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.



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.

### 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 Arrestor Exhaust System

The spark arrestor 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 arrestor exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor 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**



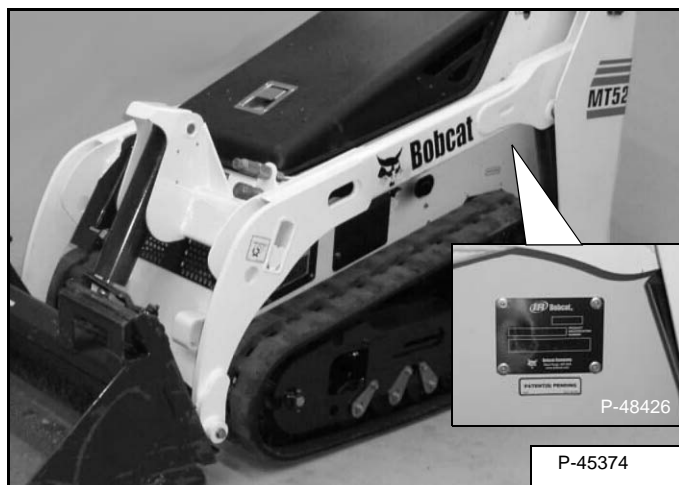
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

## 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 1



The loader serial number plate is located on the loader frame as shown **[Figure 1]**.

Explanation of loader Serial Number:

<b>XXXX</b>	<b>XXXXX</b>
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 2



The engine serial number is in the location shown **[Figure 2]**.

## DELIVERY REPORT

### Figure 3

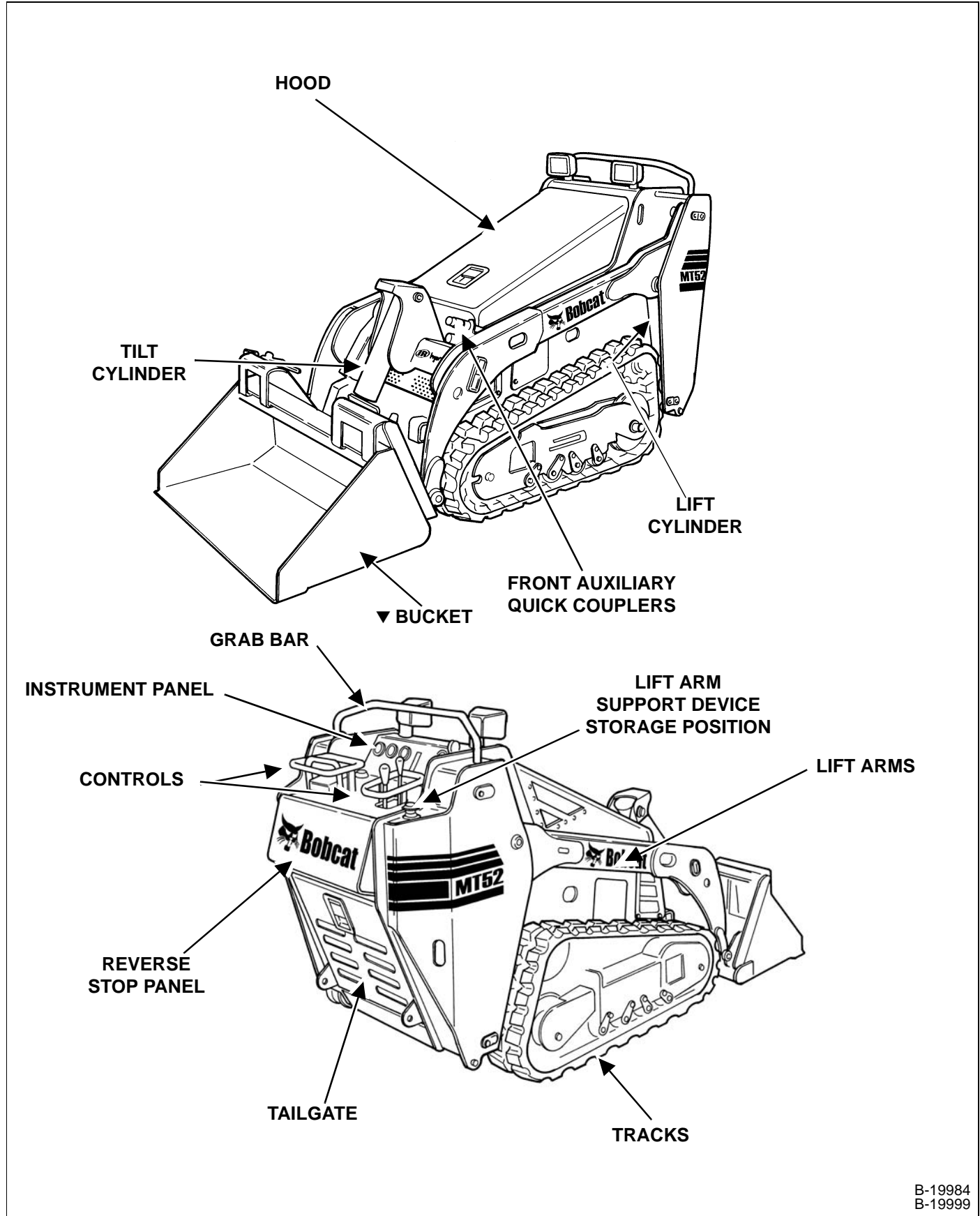
DELIVERY REPORT

WARNING

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 31]**.

MINI LOADER IDENTIFICATION



B-19984  
B-19999

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



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## LIFTING AND BLOCKING THE LOADER

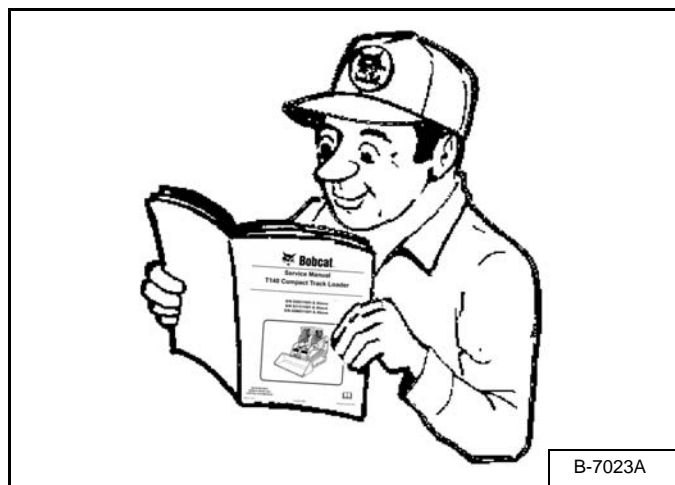
### Procedure

# ! 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



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

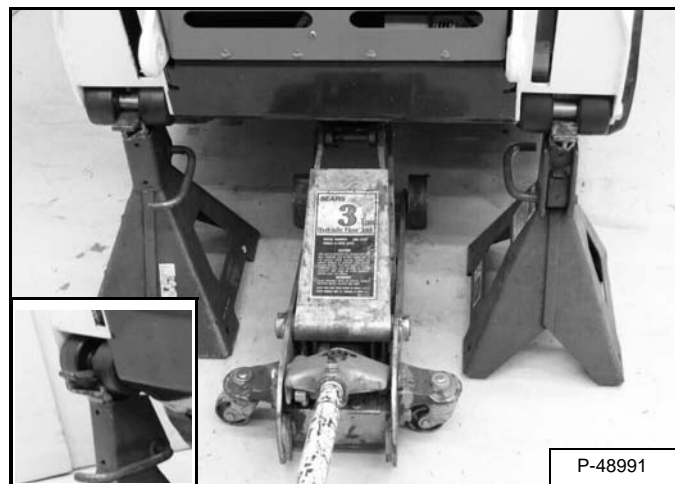
Always park the loader on a level surface.

# ! WARNING

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

W-2488-1203

Figure 10-10-2



Raise the rear of the machine 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



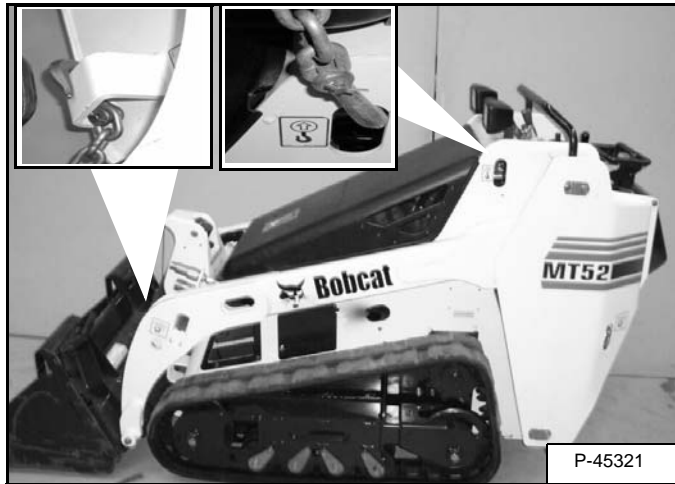
Raise the front of the machine and put jackstands under the front of the frame. [Figure 10-10-3]. Lower the machine to the jackstands.

**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 (MT52) MINI LOADER SPECIFICATIONS on Page SPEC-10-1.) **OR** (See (MT55) MINI LOADER SPECIFICATIONS on Page SPEC-11-1.)

## 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

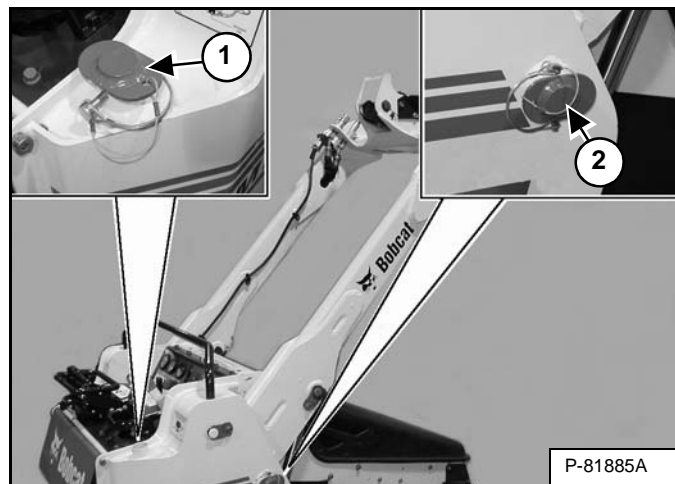
Repair the support device if damaged or if parts are missing. Using a damaged support device or with missing parts can cause lift arms or boom to fall causing serious injury or death.

W-2271-1007

Put the mini loader on a flat, level surface.

Remove any attachment from the mini loader.

Figure 10-20-1



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

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

Install the lift arm support device (Item 2) [Figure 10-20-1] into the machine frame bushings and secure with retainer pin.

Slowly lower the lift arms until movement stops.

Stop the engine.

### Removing

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

Remove the retainer pin (Item 1) and remove the lift arm support device (Item 2) [Figure 10-20-1].

Lower the lift arms and stop the engine.

Return the lift arm support device to the storage location.

Install the retainer pin to secure the lift arm support device.



**Bobcat®**

## TRANSPORTING MINI LOADER ON A TRAILER

### Loading And Unloading



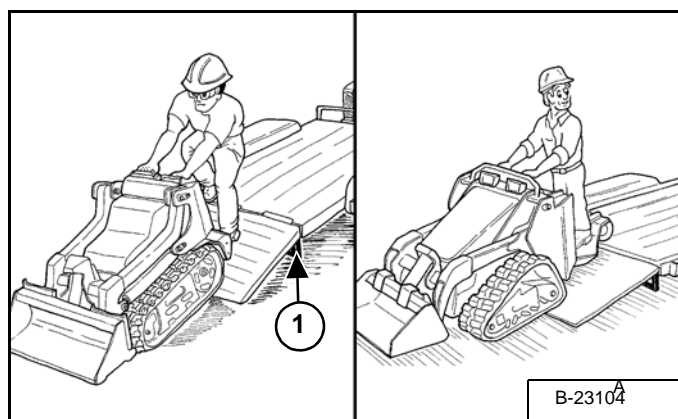
#### AVOID SERIOUS INJURY OR DEATH

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 Performance on Page SPEC-10-2.)

Figure 10-30-1



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.

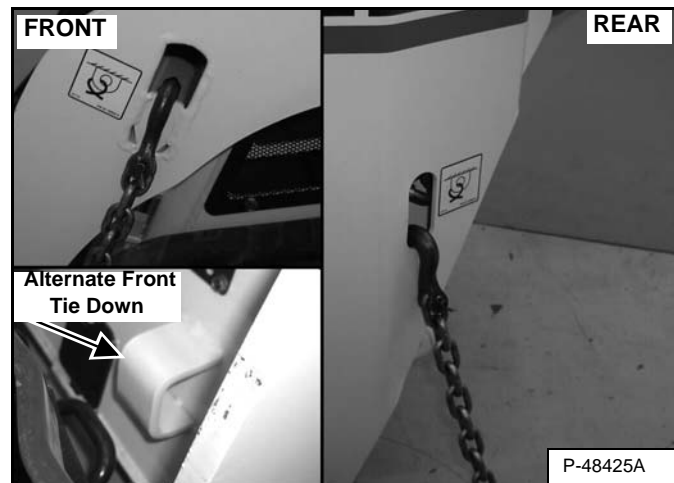
**NOTE: Do not load the machine on a trailer with the Ride-On Platform installed unless you have a full width ramp. Remove the platform if a full with ramp is not available.**

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 loader to prevent the front end of the trailer from raising up.

### Fastening

Figure 10-30-2



Fasten the mini loader to the transport vehicle to prevent the 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-10-2.)



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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 Mini Loader.



## 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.

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SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	8-10	50	100	[4] 250	[4] 500	[4] 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.						
Engine Cooling System	Clean debris from oil cooler and radiator. Check coolant level COLD. Add premixed coolant as needed.						
Fuel Filter	Remove trapped water.						
Hydraulic Fluid	Check fluid level and add as needed. Do not overfill.						
Lift Arms, Cylinders, Bob-Tach Pivot Pins and Wedges, Ride-On Platform Tire Assembly	Lubricate with multi-purpose lithium based grease. (Ride-On Platform Tire Assembly - Early models only.)						
Track Rollers And Idlers	Grease the track rollers And idlers.						
Reverse Stop Panel	Inspect for correct function. For details, (See REVERSE STOP PANEL on Page 60.) Clean dirt or debris from moving parts.						
Neutral Start Interlocks	Inspect for correct function. For details, (See NEUTRAL START INTERLOCKS on Page 62.)						
Lift / Tilt Lockouts	Inspect for correct function. For details, (See LIFT AND TILT FUNCTION LOCKOUTS on Page 61.)						
Continuous Flow Shutoff Lever	Inspect for correct function. For details, (See Inspecting The Continuous Flow Shutoff Lever on Page 63.)						
Parking Brake	Check operation. Clean or repair as needed.						
Safety Signs and Safety Treads on Platform	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 and 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.	[1]					
Engine Compartment	Check for dirt or debris on the floor of the engine compartment and clean as necessary.						
Battery	Check cables, connections, electrolyte level and battery hold downs. 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.		[2]				
Spark Arrester Muffler	Clean the spark chamber.						
Fuel Filter	Replace the filter. Use a genuine Bobcat filter.						
Lift Arm Lockout	Check function of manual bypass control.						
Hydraulic Filter	Replace the filter.		[2]				
Hydraulic Reservoir Breather Cap	Replace the reservoir breather cap.						
Hydrostatic Drive Belt	Check and adjust or replace as required.						
Hydraulic Reservoir	Replace the fluid.						
Engine Valves	Adjust the engine valves.					[3]	
Coolant	Replace the coolant						Every 2 years

- [1] Check every 8 - 10 hours for the first 50 hours, then as scheduled.  
 [2] Perform at first 50 hours, then as scheduled.  
 [3] Perform at first 500 hours, then as scheduled.  
 [4] Or every 12 months.



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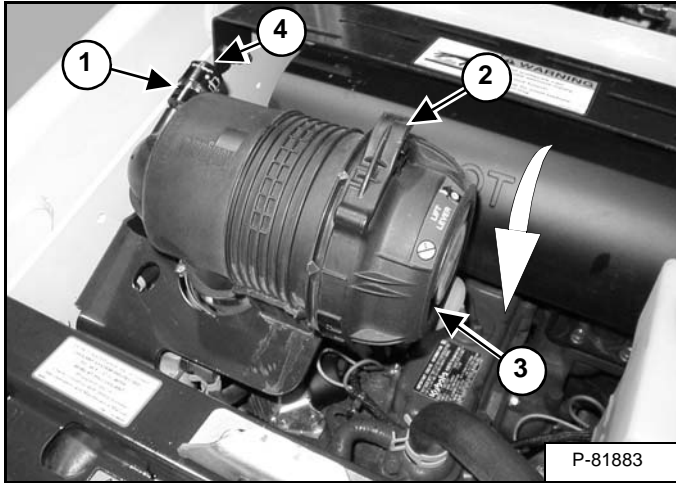
## AIR CLEANER SERVICE

### 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].

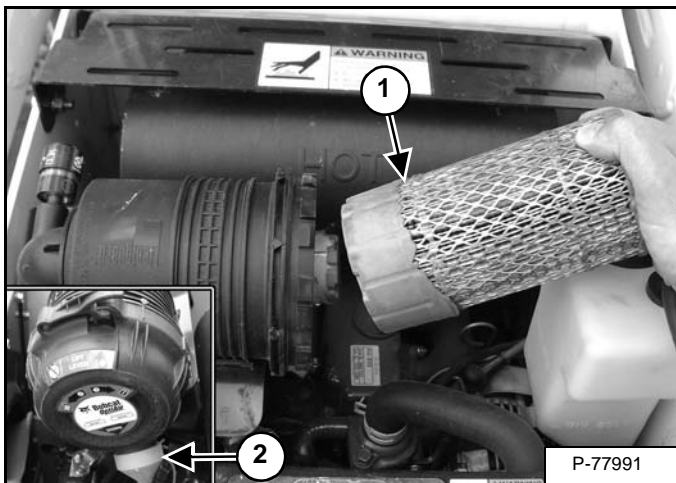
Replace the inner filter every third time the outer filter is replaced or as indicated below.

#### 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.

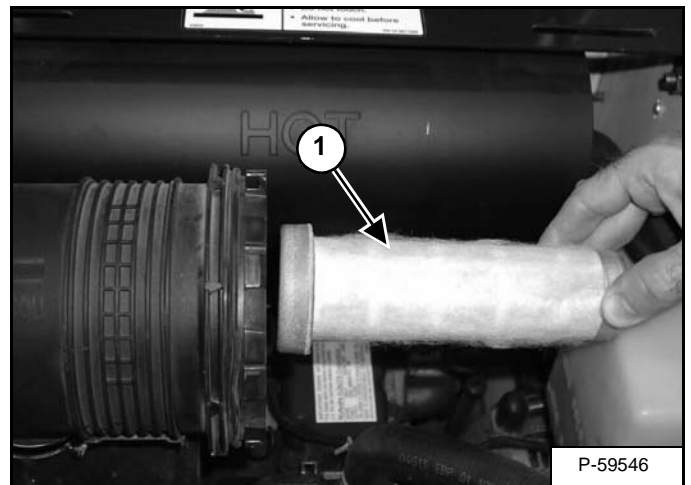
Press the button (Item 4) [Figure 10-60-1] to remove the red ring on the condition indicator.

#### 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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