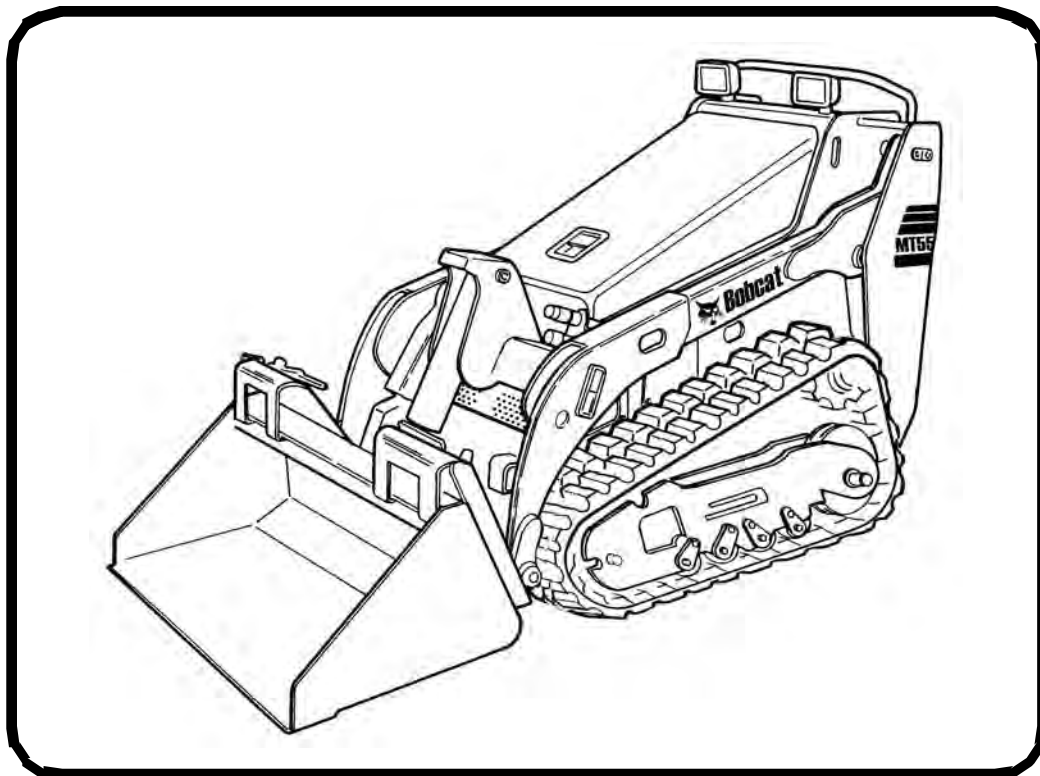




Bobcat®

Operation & Maintenance Manual MT55 Mini Track Loader

S/N A3WT11001 & Above
S/N B38T11001 & Above



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OPERATOR SAFETY WARNINGS



WARNING

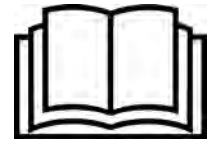
Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

W-2001-0502



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

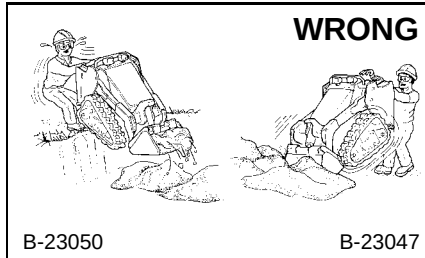
CORRECT



P-90216



Never use the loader without instructions. See machine signs (decals) and Operation & Maintenance Manual.

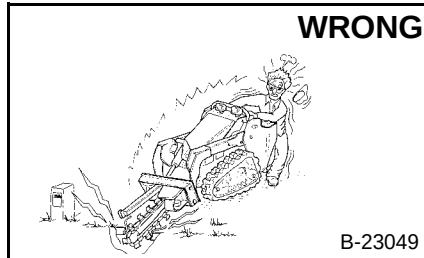


B-23050

B-23047



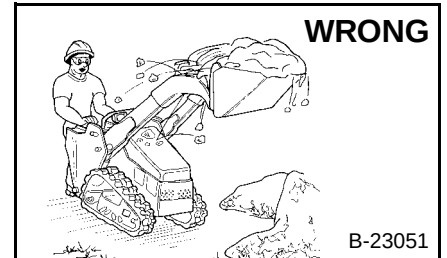
Never drive over drop offs or jerk on the controls.



B-23049



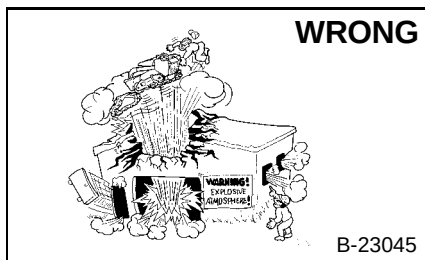
Check for utility lines before digging.



B-23051



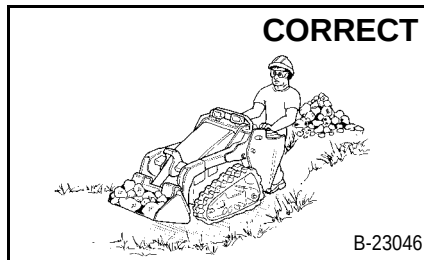
Keep load level when raising lift arms.



B-23045



Do not use loader in atmosphere with explosive dust, explosive gas, or where exhaust can contact flammable material.



B-23046



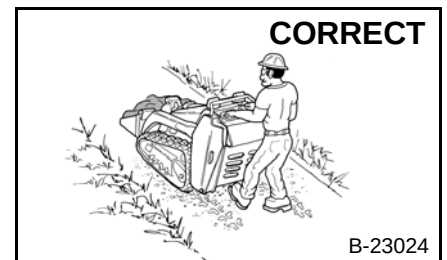
Never carry riders.



Keep bystanders away from work area.



CARRY LOAD LOW.



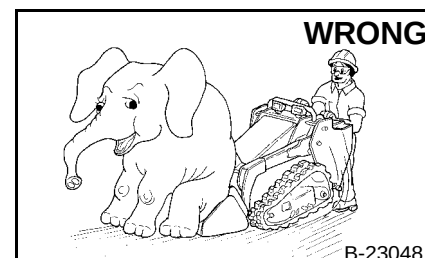
B-23024



Do not travel or turn with lift arms up.



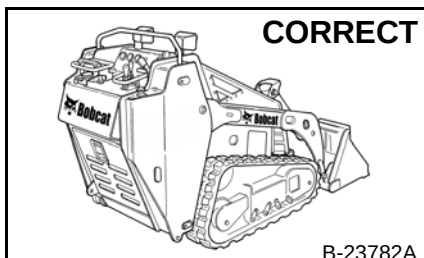
Keep heavy end uphill.



B-23048



Never exceed Rated Operating Capacity.



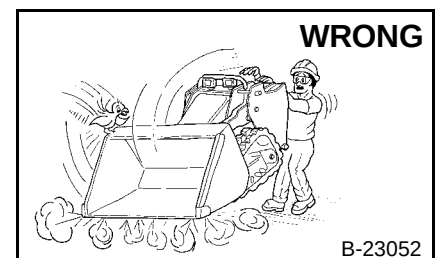
B-23782A



Never leave loader with engine running or with lift arms up.



To park, engage parking brake, lower lift arms and put attachment flat on the ground.



B-23052



Never modify equipment.



Use only attachments approved by Bobcat Company for this model loader.

SAFETY EQUIPMENT

The Bobcat Loader must be equipped with safety items necessary for each job. Ask your dealer about attachments and accessories.

1. SAFETY SIGNS (DECALS): Replace if damaged.
2. LIFT ARM SUPPORT DEVICE: Replace if damaged
3. PARKING BRAKE: Check function, adjust or repair if necessary.
4. REVERSE STOP PANEL: Check function.



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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat mini track loader in the spaces below. Always use these numbers when referring to your Bobcat mini track loader.

Loader Serial Number _____
Engine Serial Number _____

NOTES:

YOUR BOBCAT DEALER:

ADDRESS:

PHONE:

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

Doosan Benelux SA
Drève Richelle 167
B-1410 Waterloo
BELGIUM

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FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the Bobcat mini track loader. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT MINI TRACK LOADER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your mini track loader.

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BOBCAT COMPANY IS ISO 9001 CERTIFIED



ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures which we use to design, develop, manufacture, and distribute Bobcat products.

British Standards Institute (**BSI**) is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner, North Dakota (U.S.A.), Pontchâteau (France), and the Bobcat corporate offices (Gwinner, Bismarck, and West Fargo) in North Dakota. **TÜV Rheinland** is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facility in Dobris (Czech Republic). Only certified assessors, like BSI and TÜV Rheinland, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

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.

REGULAR MAINTENANCE ITEMS

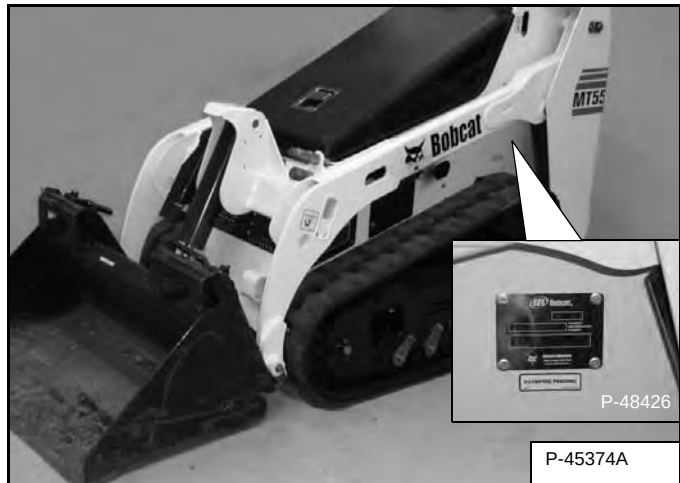
	ENGINE OIL FILTER 6671057		RADIATOR CAP 6646678
	FUEL FILTER 6667352		BATTERY 6670251
	AIR FILTER, Outer 6687262		FLUID, Hydraulic / Hydrostatic 6903117 - (2.5 U.S. gal) 6903118 - (5 U.S. gal) 6903119 - (55 U.S. gal)
	AIR FILTER, Inner 6687263		
	HYDROSTATIC FILTER 6677652		ANTI-FREEZE, Propylene Glycol 6983128 - Premixed 6983129 - Concentrate
ENGINE OIL 7023080 SAE 15W40 CE/SG (12 qt) 7023076 SAE 10W30 CE/SG (12 qt) 6903109 SAE 30W CE/SG (12 qt) 7023082 SAE 15W40 CE/SG (2.5 U.S. gal) 7023078 SAE 10W30 CE/SG (2.5 U.S. gal) 6903111 SAE 30W CE/SG (2.5 U.S. gal)		ENGINE OIL 7023081 SAE 15W40 CE/SG (1 U.S. gal) 7023077 SAE 10W30 CE/SG (1 U.S. gal) 6903110 SAE 30W CE/SG (1 U.S. gal)	

NOTE: Always verify Part Numbers with your Bobcat dealer.

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Always use the serial number of the mini track 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.

Figure 1



Explanation of Serial Number:

XXXX XXXXX

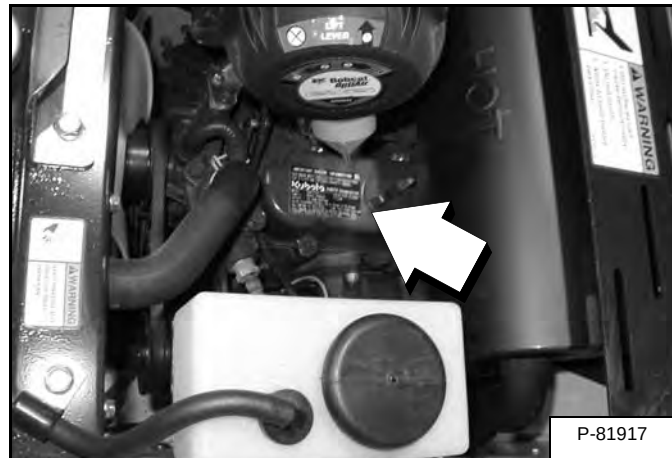
Module 2. - Production Sequence (Series)

Module 1. - Model / Engine Combination

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 mini track loader is produced.

Engine Serial Number

Figure 2



The engine serial number is located on the valve cover of the engine **[Figure 2]**.

DELIVERY REPORT

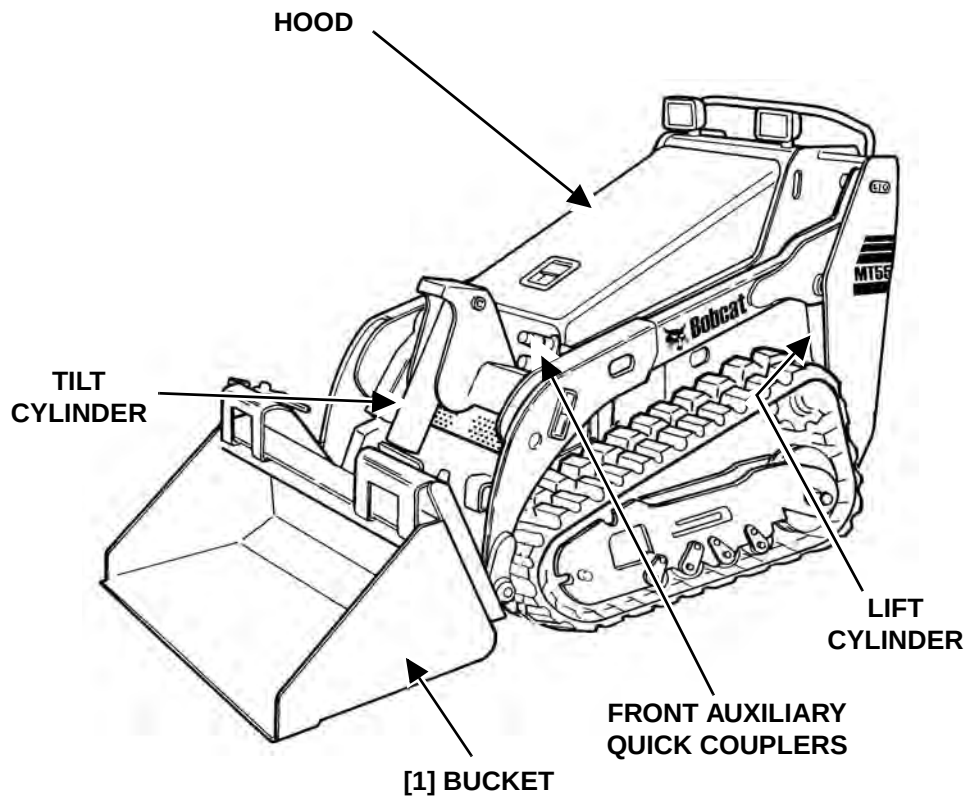
Figure 3

The diagram illustrates a document layout with a top section titled "DELIVERY REPORT" and a bottom section titled "WARNING". The "DELIVERY REPORT" section contains several lines of text. The "WARNING" section contains a large block of text. The bottom section of the document contains a large block of text.

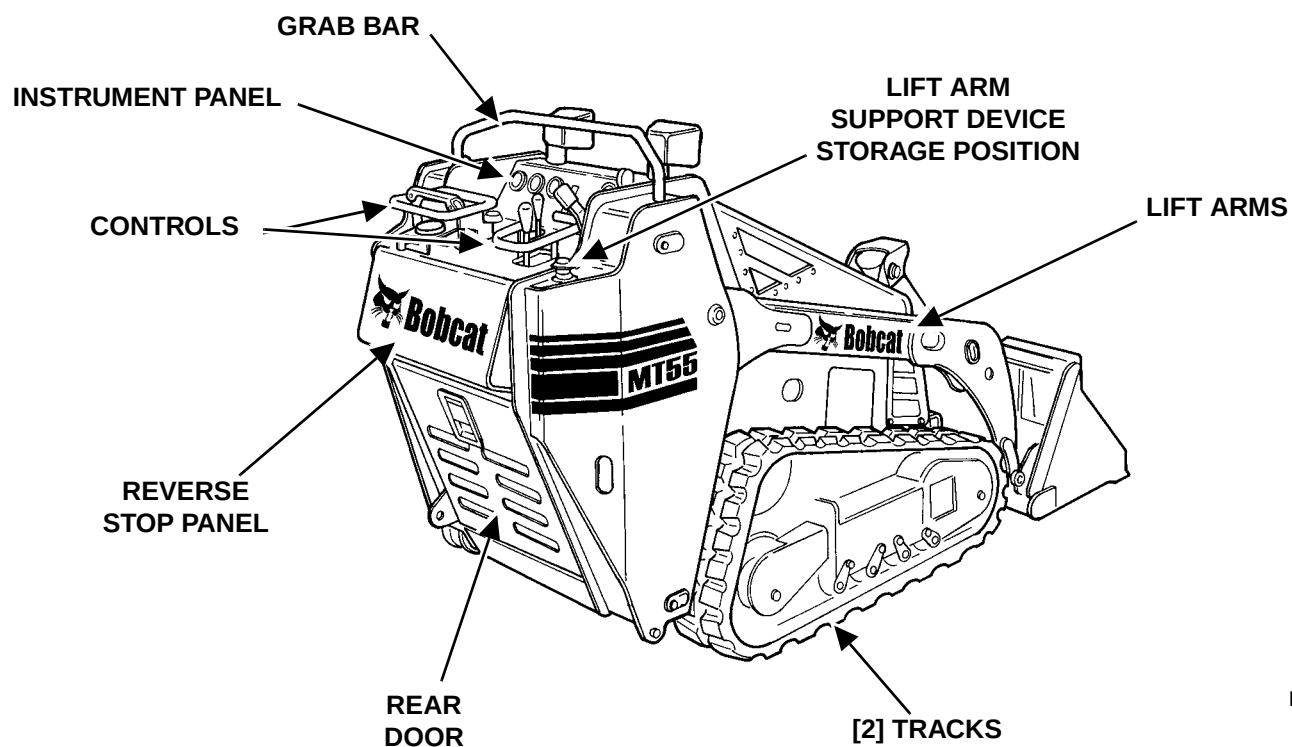
The delivery report **[Figure 3]** contains a list of items that must be explained or shown to the owner or operator by the dealer when the Bobcat mini track loader is delivered.

The delivery report must be reviewed and signed by the owner or operator and the dealer.

MINI TRACK LOADER IDENTIFICATION



B-19984A



B-23783

- [1] BUCKETS - Several different buckets and other attachments are available for the Bobcat mini track loader.
 [2] TRACKS - Optional tracks are available.

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FEATURES, ACCESSORIES AND ATTACHMENTS

Standard Items

Model MT55 Bobcat Mini Track Loaders are equipped with the following standard items:

- Auxiliary Hydraulics, Front
- Instrumentation: Hourmeter, Engine Temperature, Voltmeter and Fuel Gauges, Warning Lights
- Lift Arm and Tilt Control Lockout System
- Joystick Lift and Tilt Functions
- Lift Arm Support Device
- Multifunction Drive Control
- Continuous Flow Shutoff Lever
- Parking Brake
- Reverse Stop Panel
- Reverse Travel Speed Control
- Rubber Tracks - 180 mm (7 in)
- Spark Arrestor Muffler

Options and Accessories

Below is a list of some equipment available from your Bobcat Mini Track Loader dealer as Dealer or Factory Installed Accessories and Factory Installed Options. See your Bobcat dealer for other available options, accessories and attachments.

- Attachment Control Kit
- Auxiliary Hydraulic Mode Kit
- Bob-Tach™
- Common Industry Interface
- Case Drain Kit
- Engine Block Heater
- Engine Protection Shutdown Kit
- Exhaust Purifier
- Operating Lights
- Radiator Screen
- Ride-On Platform (Hinged)
- Rubber Tracks - 250 mm (9.8 in)

Specifications subject to change without notice and standard items may vary.

Attachments

These and other attachments are approved for use on this model mini track loader. Do not use unapproved attachments. Attachments not manufactured by Bobcat may not be approved.

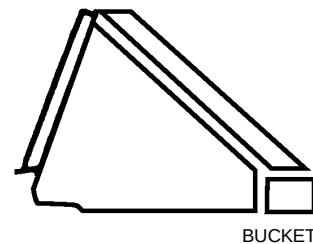
The versatile Bobcat Mini Track Loader quickly turns into a multi-job machine with a tight-fit attachment hook-up; from bucket to grapple to pallet fork to tiller and a variety of other attachments.

See your Bobcat dealer for more details on these and other attachments and field accessories.

- Adapter Frame
- Angle Broom
- Auger [1]
- Backhoe
- Boring, Mini
- Breaker [1]
- Buckets [1]
- Bucket, Combination
- Digger
- Landplane
- Pallet Fork [1]
- Root Grapple
- Snow Blower
- Soil Conditioner
- Sweeper
- Stump Grinder
- Tiller
- Trencher
- Tree Fork
- Utility Blade
- Utility Fork
- Utility Grapple
- Vibratory Plow
- V-Blade

[1] Available in configuration for use with the Common Industry Interface.

Buckets Available



Many bucket styles, widths and different capacities are available for a variety of different applications. They include Construction and Industry, Utility and General Purpose, to name a few. See your Bobcat dealer for the correct bucket for your Bobcat Mini Track Loader and application.

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SAFETY INSTRUCTIONS

Before Operation

Carefully follow the operating and maintenance instructions in this manual.

The Bobcat mini track loader is highly maneuverable and compact. It is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off highway, rough terrain applications, common with Bobcat mini track loader usage.

The Bobcat mini track loader has an internal combustion engine with resultant heat and exhaust. All exhaust gases can kill or cause illness so use the mini track loader with adequate ventilation.

The dealer explains the capabilities and restrictions of the Bobcat mini track loader and attachment for each application. The dealer demonstrates the safe operation according to Bobcat instructional materials, which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for a Rated Operating Capacity (some have restricted lift heights). They are designed for secure fastening to the Bobcat mini track loader. The user must check with the dealer, or Bobcat literature, to determine safe loads of materials of specified densities for the machine - attachment combination.

The following publications and training materials 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 and attachment is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment gives 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.

- See the PUBLICATIONS AND TRAINING RESOURCES Page in this manual or your Bobcat dealer for Service and Parts Manuals, printed materials, videos, or training courses available. Also check the Bobcat web sites www.training.bobcat.com or www.bobcat.com

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
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.).

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SI ML-0913

SAFETY INSTRUCTIONS (CONT'D)

Safe Operation Is The Operator's Responsibility



Safety Alert Symbol

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



Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

W-2001-0502



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 Bobcat mini track loader and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area.
- Safety Videos, which provide general information regarding safe and efficient equipment operation, are available from your Bobcat dealer.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity (ROC) of the machine. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of the load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the *Before Operation* section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, or hearing protection are required for some work. See your Bobcat dealer about Bobcat safety equipment.

SI ML-0913

SAFETY INSTRUCTIONS (CONT'D)

Avoid Silica Dust



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.

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 coolant 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.

SI ML-0913

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FIRE PREVENTION (CONT'D)

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).

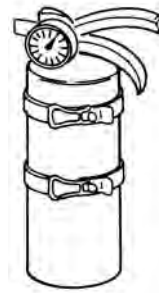
Welding And Grinding

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.

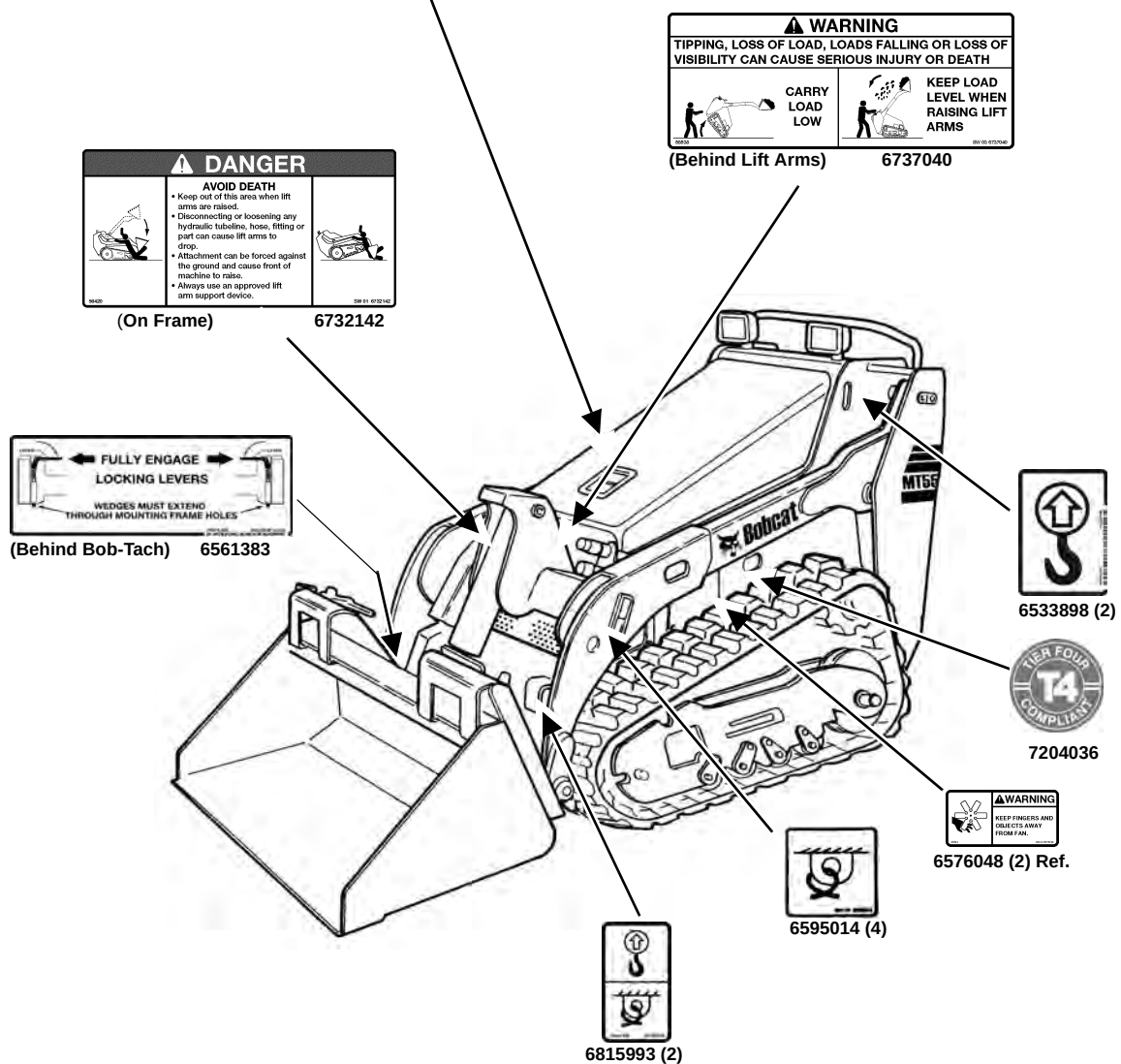
Fire Extinguishers



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.

MACHINE SIGNS (DECALS)

Follow the instructions on all the Machine Signs (Decals) that are on the Mini Track Loader. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat Mini Track Loader dealer.



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B-19984A

MACHINE SIGNS (DECALS) (CONT'D)

Follow the instructions on all the Machine Signs (Decals) that are on the Mini Track Loader. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat Mini Track Loader dealer.



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7157174



7135732



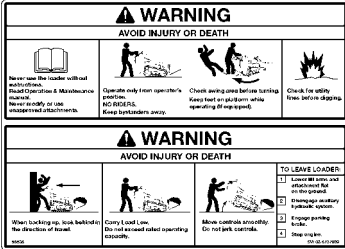
7157058

WARNING
AVOID INJURY OR DEATH



6737041

WARNING
AVOID INJURY OR DEATH



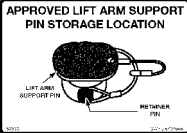
6737039

STATED OPERATING CAPACITY
238 kg
525 LBS

FAHRBARE NUTZLAST
CAPACIDAD DE OPERACIÓN
CAPACITÉ MAXIMUM DE LEVAGE

6737042

APPROVED LIFT ARM SUPPORT PIN STORAGE LOCATION



6737046



6596218



6735140

PARK BRAKE
ON
OFF



7273444

On Control and Instrument Panel

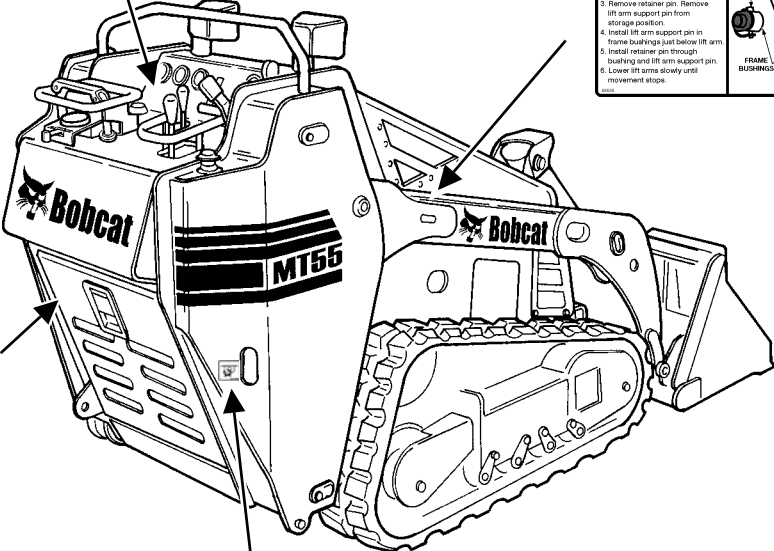


6732148 (2)

Inside Tailgate



6595014 (2) Ref.



Bobcat MT55

TO INSTALL APPROVED LIFT ARM SUPPORT PIN

1. Remove attachment from loader.
2. Start engine and raise lift arms.
3. Stop engine.
4. Remove retainer pin. Remove lift arm support pin from storage position.
5. Install lift arm support pin in frame bushings just below lift arm.
6. Install retainer pin through bushing and lift arm support pin.
7. Lower lift arms slowly until movement stops.

TO REMOVE LIFT ARM SUPPORT PIN

1. Start engine and raise lift arms.
2. Stop engine.
3. Remove retainer pin and lift arm support pin.
4. Return lift arm support pin to storage position and secure with retainer pin.
5. Lower lift arms.

6737045

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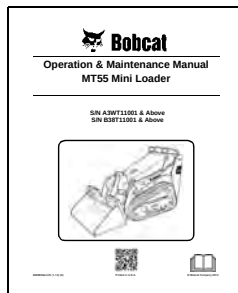
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MT55 Operation & Maintenance Manual

PUBLICATIONS AND TRAINING RESOURCES

The following publications are also available for your Bobcat loader. You can order them from your Bobcat dealer.



OPERATION & MAINTENANCE MANUAL

6986858enUS

Complete instructions on the correct operation and the routine maintenance of your Bobcat Mini Track Loader.



SAFETY MANUAL

6987102 (English and Spanish)

Gives basic safety procedures and warnings for your Bobcat Mini Track Loader.



SERVICE MANUAL

6986859enUS

Complete maintenance instructions for your Bobcat Mini Track Loader.

For the latest information on Bobcat products and the Bobcat Company, visit our Web site at www.training.bobcat.com or www.bobcat.com.



OPERATOR SAFETY DVD

6904762 (English and Spanish)

DVD gives basic safety instructions for many Bobcat products including loaders.



MINI TRACK LOADER SAFETY VIDEO

(Mobile device with quick response code application required)

Scan the code above to watch the loader safety video or view at www.training.bobcat.com.

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OPERATING INSTRUCTIONS

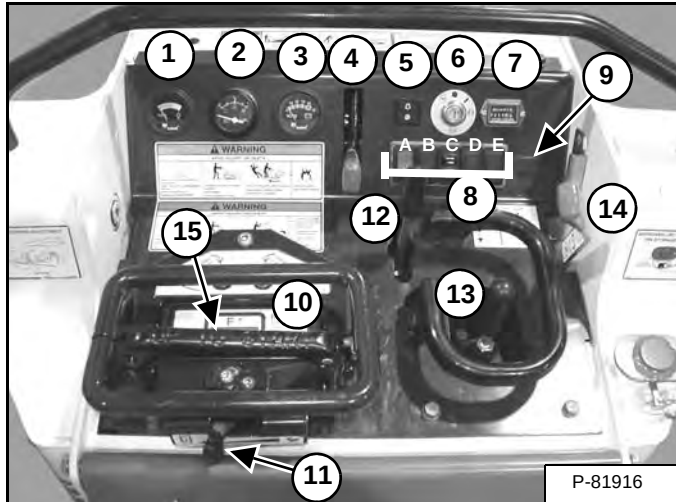
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CONTROLS IDENTIFICATION

Figure 4



Reference numbers below refer to the operator's console [Figure 4].

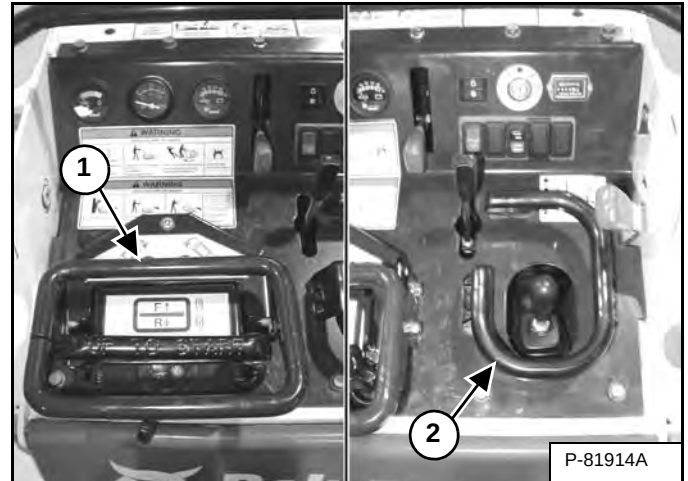
1. Temperature Gauge
2. Fuel Gauge
3. Voltmeter
4. Engine Speed Control Lever
5. Engine Oil Pressure Warning Light / Hydraulic Temperature Warning Light
6. Key Switch
7. Hourmeter
8. **A** - Lift Arm By-Pass
B - Field Accessory (Option)
C - Field Accessory (Option)
D - Lights (Option)
E - Auxiliary Hydraulic Mode (Option)
9. Shutdown Indicator (Option)
10. Drive / Steering Control
11. Reverse Travel Speed Control Lever
12. Auxiliary Hydraulic Control Lever
13. Lift Arm / Attachment Tilt Control Lever
14. Parking Brake Lever
15. Continuous Flow Shutoff Lever

CONTROLS OPERATION

Description

The operator controls direct the drive, steering, lift and tilt functions. Move the controls smoothly, avoid sudden starting and stopping.

Figure 5



Always use the Hand Bars (Items 1 and 2) [Figure 5] when operating the controls.

You can maintain better control of the functions when you use the hand bars to operate the Drive / Steering Control and also when operating the lift, tilt and auxiliary controls.

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REVERSE STOP PANEL

Operation

Figure 6



The Reverse Stop Panel (Item 1) [Figure 6] will stop the machine from moving backward when the panel is pushed forward.

When the Reverse Stop Panel is fully pressed, the machine will move forward slowly.

LIFT ARM BY-PASS CONTROL

Operation

The lift arm by-pass control is used to lower the lift arms when the engine is not running.

Figure 7

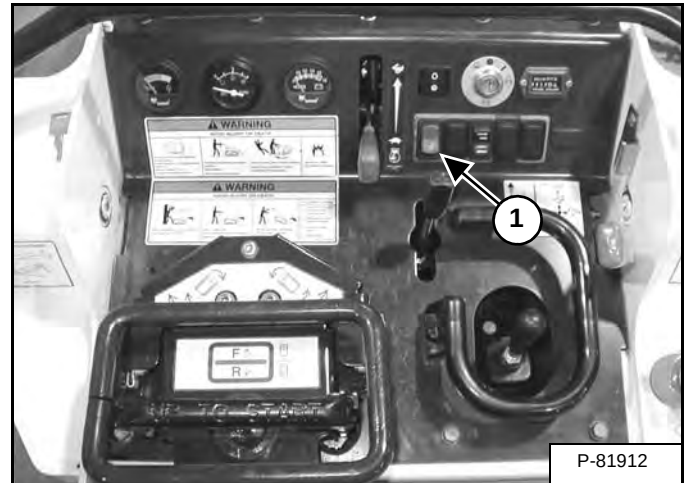
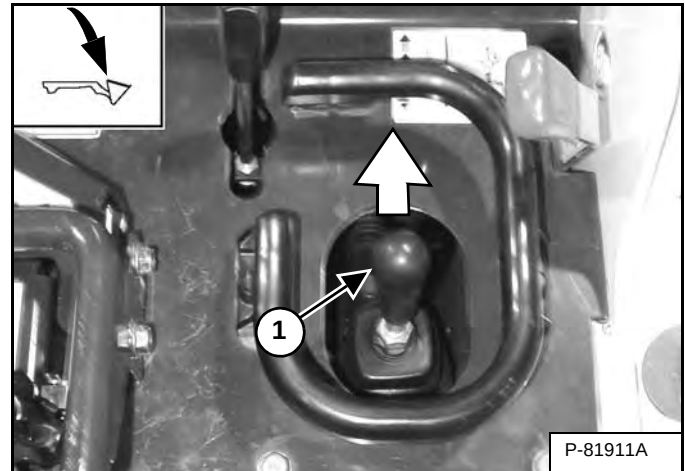


Figure 8



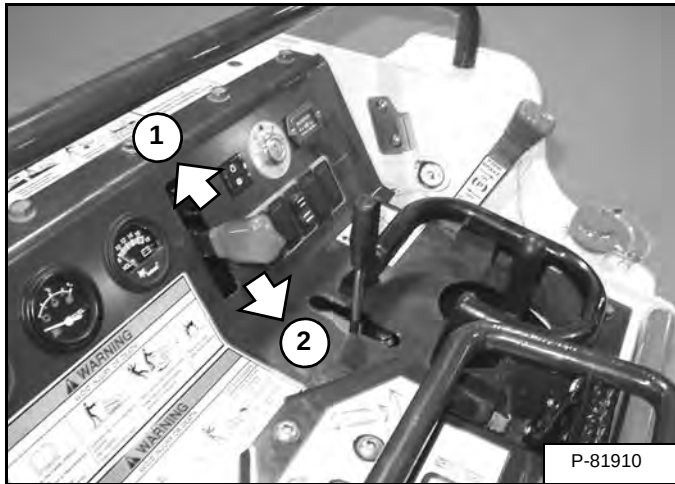
Press and hold the lift arm by-pass switch (Item 1) [Figure 7].

Move the Lift Arm / Attachment Tilt control lever (Item 1) [Figure 8] forward slightly to lower the lift arms.

ENGINE SPEED CONTROL

Operation

Figure 9



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

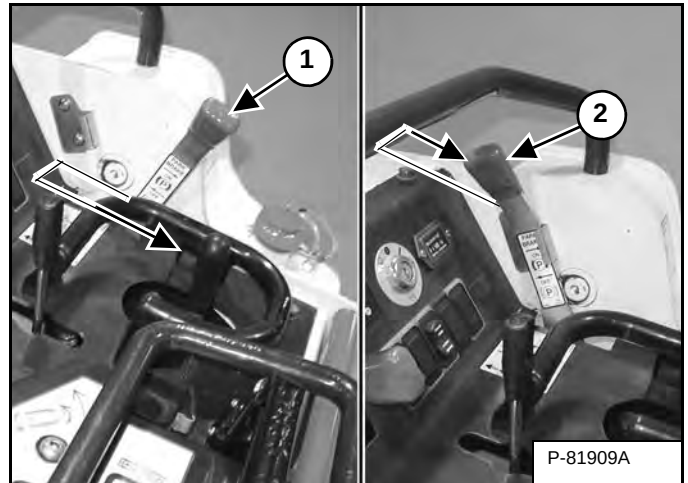
For maximum performance, run the engine at full speed.

PARKING BRAKE

Operation

Engage the parking brake whenever you stop the mini track loader.

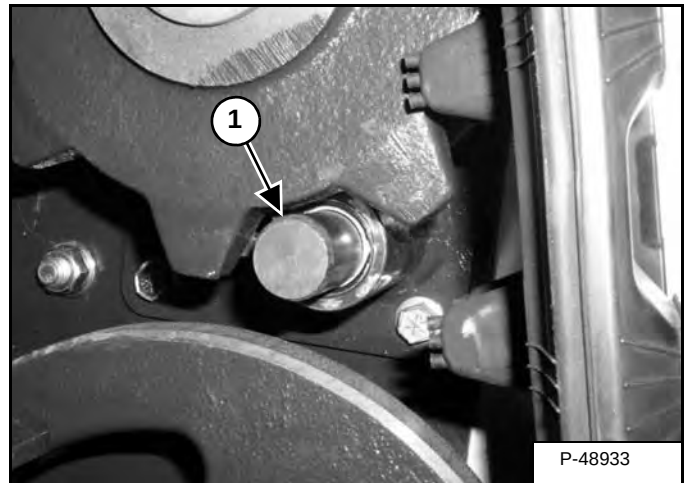
Figure 10



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

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

Figure 11



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

DRIVING AND STEERING THE MINI TRACK LOADER

Operation

Figure 12

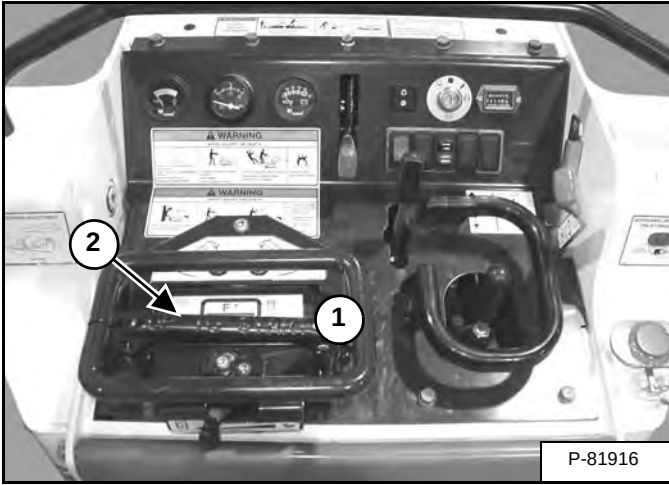
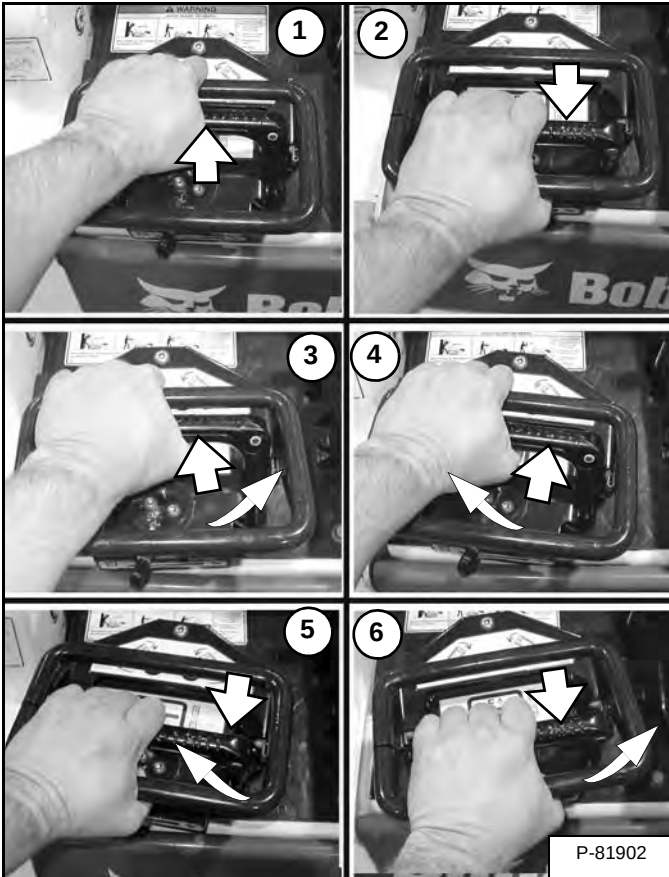


Figure 13



The Drive / Steering Control (Item 1) is on the left side of the operator's console. The Continuous Flow Shutoff Lever (Item 2) [Figure 12] will be depressed when you place your hand on the Drive / Steering Control.

FORWARD TRAVEL - Move the Drive Control forward (Item 1) [Figure 13].

REVERSE TRAVEL - Move the Drive Control backward (Item 2) [Figure 13].

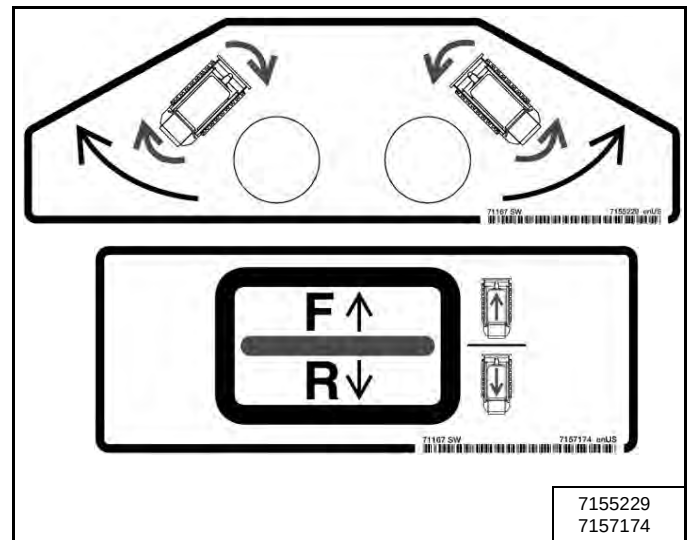
FORWARD LEFT TURN - Move the Drive Control forward and swing the Steering Control to the right (Item 3) [Figure 13].

FORWARD RIGHT TURN - Move the Drive Control forward and swing the Steering Control to the left (Item 4) [Figure 13].

REVERSE LEFT TURN - Move the Drive Control backward and swing the Steering Control to the left (Item 5) [Figure 13].

REVERSE RIGHT TURN - Move the Drive Control backward and swing the Steering Control to the right (Item 6) [Figure 13].

Figure 14



The decals on the Drive / Steering Control [Figure 14] also shows the operation instructions.

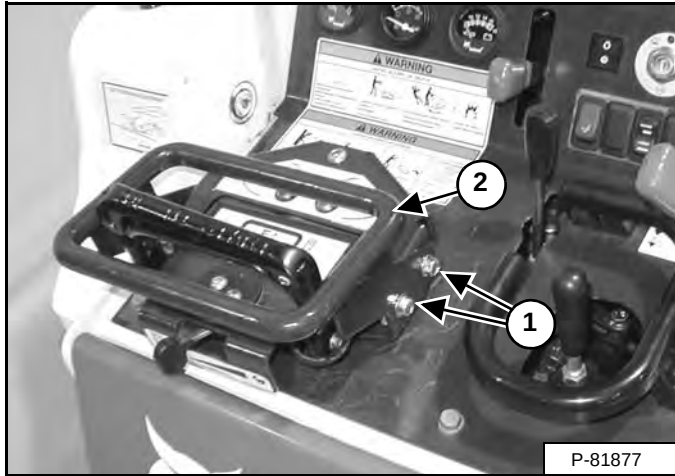
NOTE: The engine will not start unless the Drive / Steering Control (Item 1) [Figure 12] is in NEUTRAL and the Continuous Flow Shutoff Lever (Item 2) [Figure 12] is in the UP position.

DRIVE / STEERING CONTROL TILT ADJUSTMENT

Operation

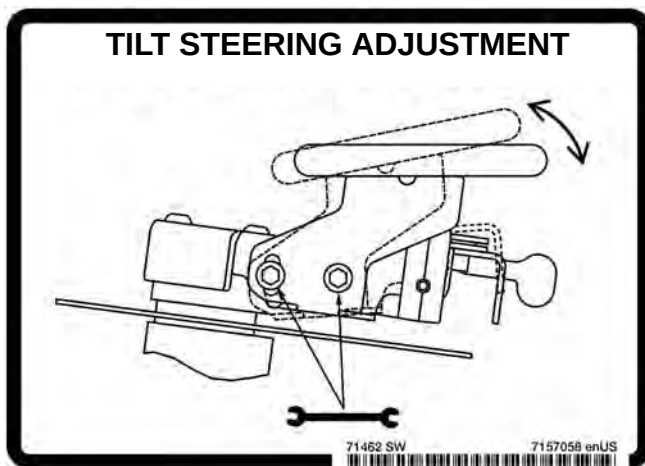
The Drive / Steering Control can be adjusted (tilted up or down) for operator comfort.

Figure 15



Loosen the four bolts (Item 1) on the side of the Drive / Steering Control handle (two on each side) and adjust the angle of the handle (Item 2) [Figure 15] for operator comfort.

Tighten the four bolts (Item 1) [Figure 15] on the side of the Drive / Steering Control handle to 9 - 10 N•m (80 - 90 in-lb) after the adjustment is made.

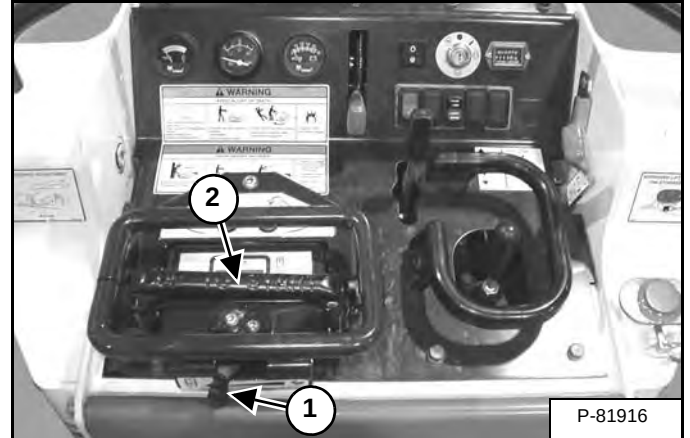


REVERSE TRAVEL SPEED CONTROL LEVER

Operation

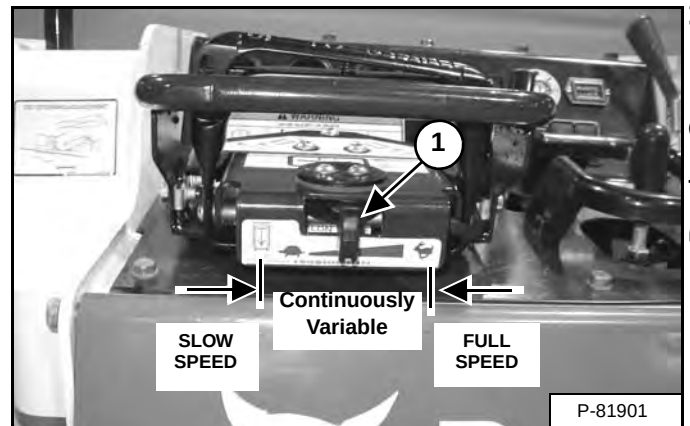
The Reverse Travel Speed Control Lever is used with the Drive / Steering Control to limit the travel speed of the mini track loader when moving in reverse to optimize efficiency with certain attachments.

Figure 16



The Reverse Travel Speed Control Lever (Item 1) [Figure 16] can be used for operations such as trenching or tilling when a constant slower travel speed is desired.

Figure 17



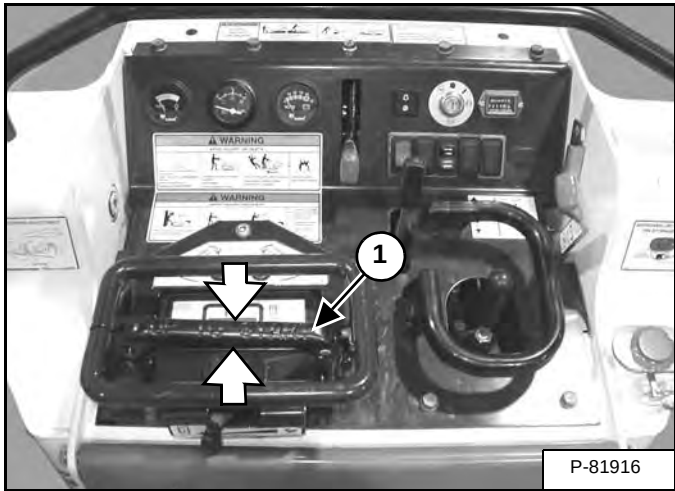
- Put the Drive / Steering Control (Item 2) [Figure 16] in NEUTRAL position.
- Slide the lever (Item 1) [Figure 17] to the left to reduce the reverse travel speed. Move the Drive / Steering Control fully backward and the mini track loader will travel in reverse at the set speed. To adjust the reverse travel speed again, return the Drive / Steering to the NEUTRAL position and slide the lever to the desired position.

NOTE: Slide the Reverse Travel Speed Control Lever fully to the right and move the Drive / Steering Control fully back to move the mini track loader at maximum reverse travel speed.

STOPPING THE MINI TRACK LOADER

Using The Drive / Steering Control

Figure 18

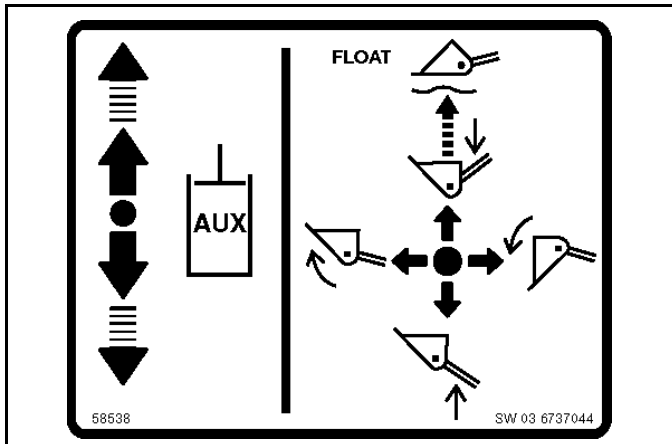
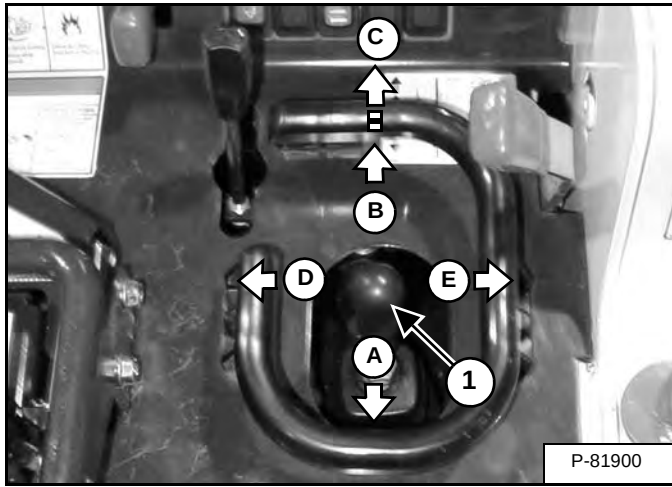


When the Drive / Steering Control (Item 1) [Figure 18] is moved to the NEUTRAL position, the hydrostatic drive system will act as a *service brake* to stop the mini track loader.

HYDRAULIC CONTROLS

Description

Figure 19



The Lift Arm / Attachment Tilt Control Lever (Item 1) [Figure 19] controls the movement of the lift arms and the attachment tilt.

Lift Arm Operation

A - Raise Lift Arms

B - Lower Lift Arms

Lift Arm Float Position

C - Lift Arms in Float Position

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

Tilt Operation

D - Tilt Attachment Backward

E - Tilt Attachment Forward

HYDRAULIC CONTROLS (CONT'D)

FRONT Auxiliary Hydraulics (CONTINUOUS FLOW)

Figure 20

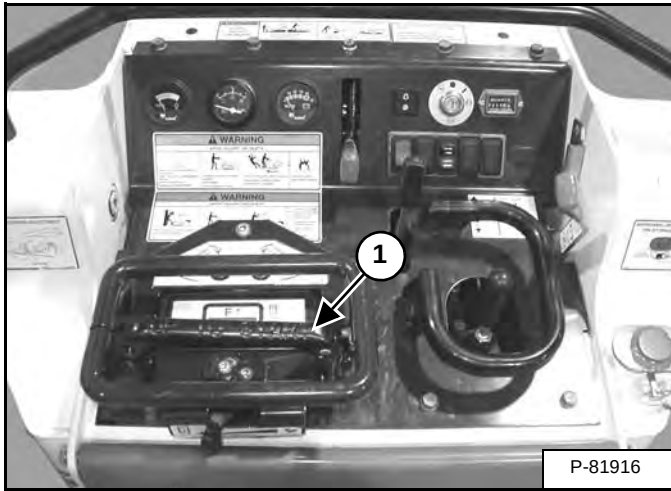
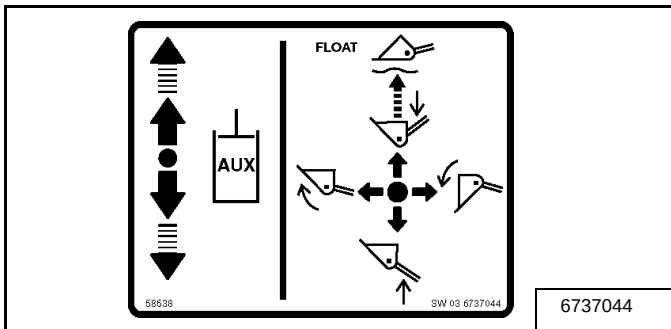
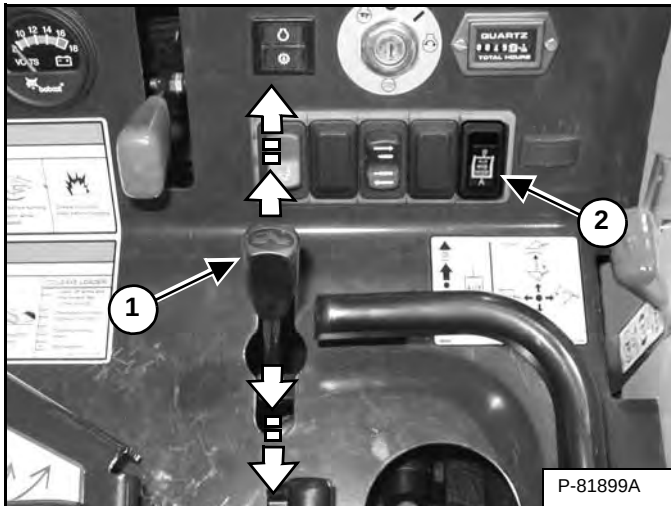


Figure 21



Variable Flow:

Push the Auxiliary Hydraulic Control Lever (Item 1) [Figure 20] forward for auxiliary hydraulic oil flow to the front male coupler (Item 2) [Figure 21]. Hydraulic oil flow increases to the coupler as the lever is pushed forward.

Pull the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] backward for auxiliary hydraulic oil flow to the front female coupler (Item 1) [Figure 22]. Hydraulic oil flow increases to the coupler as the lever is pushed backward.

Continuous Flow:

While holding the Continuous Flow Shutoff Lever (Item 1) [Figure 20] down, push the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] all the way forward or all the way backward until it locks (detent position) for continuous auxiliary hydraulic oil flow for an attachment such as a tiller or trencher.

If the Continuous Flow Shutoff Lever (Item 1) [Figure 20] is released while in continuous flow, the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] will return to NEUTRAL after one to three seconds and the auxiliary hydraulic oil flow will stop.

To resume the continuous flow operation, make sure the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] is in NEUTRAL and press down on the Continuous Flow Shutoff Lever (Item 1) [Figure 20]. Move the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] all the way forward or all the way backward until it locks (detent position).

NOTE: The Continuous Flow Shutoff Lever (Item 1) [Figure 20] must be in the UP position and the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] must be in NEUTRAL to start the engine.

NOTE: The Continuous Flow Shutoff Lever (Item 1) [Figure 20] must return to the UP position when it is released.

Auxiliary Hydraulic Mode Switch:

For operation with the backhoe attachment, the Auxiliary Hydraulic Mode Switch (Item 2) [Figure 21] must be installed. The auxiliary hydraulic continuous flow functions normally when the switch is in the "A" position. Place the switch in the "B" position for backhoe operation. Move the Auxiliary Hydraulic Control Lever all the way backward until it locks (detent position). Auxiliary hydraulic oil will flow to the front female coupler.

If the Continuous Flow Shutoff Lever (Item 1) [Figure 20] is pressed while the Auxiliary Hydraulic Mode Switch (Item 2) [Figure 21] is in the "B" position, the Auxiliary Hydraulic Control Lever (Item 1) [Figure 21] will return to NEUTRAL and the auxiliary hydraulic oil flow will stop. Move the switch to "A" position when you are done with the backhoe operation.

HYDRAULIC CONTROLS (CONT'D)

Quick Couplers

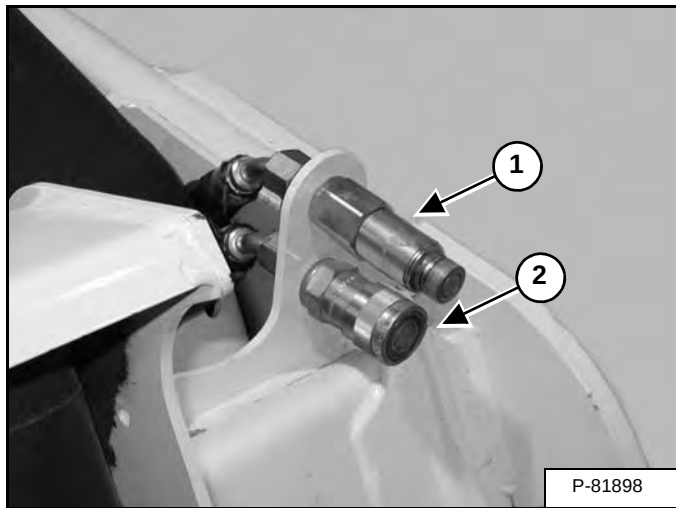
! WARNING

AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0807

Figure 22



To Connect: Remove dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers (Item 1 and 2) [Figure 22] for corroding, cracking, damage, or excessive wear. If any of these conditions exist, the coupler(s) must be replaced.

Install the male coupler into the female coupler. Full connection is made when the ball release sleeve slides forward on the female coupler.

To Disconnect: Hold the male coupler. Retract the sleeve on the female coupler until the couplers disconnect.

Relieve Hydraulic Pressure (Mini Track Loader And Attachment)

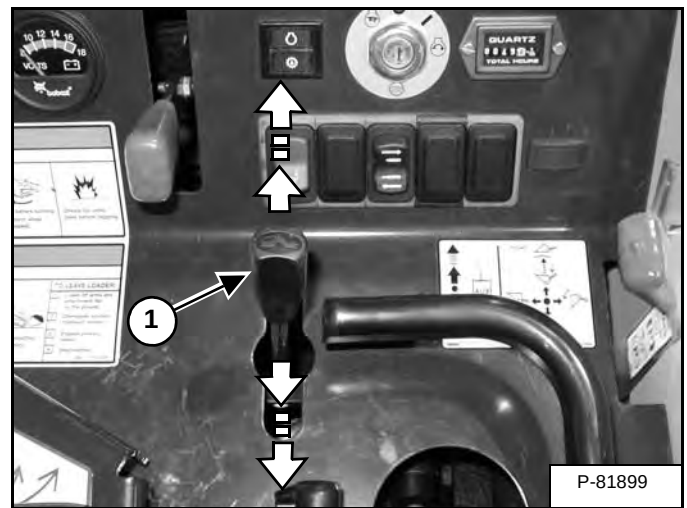
! WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

Figure 23



Mini Track Loader:

- Lower the lift arms fully and put the attachment flat on the ground. Stop the engine. Engage the parking brake.
- Move the Auxiliary Hydraulic Control Lever (Item 1) [Figure 23] forward and backward to release auxiliary hydraulic oil pressure.

Attachments:

- Follow procedure above to release pressure in the mini track loader.
- Connect male coupler from attachment to female coupler of the mini track loader then repeat procedure above. This will release pressure in the attachment.
- Connect the female coupler from the attachment to the male coupler of the mini track loader.

Hydraulic pressure in the auxiliary hydraulic system can make it difficult to engage quick couplers to an attachment.

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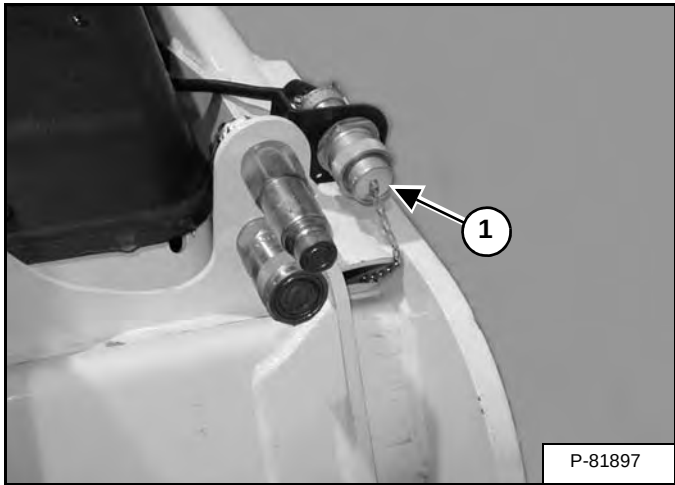
ATTACHMENT CONTROL DEVICE (ACD) (IF EQUIPPED)

This machine may be equipped with an Attachment Control Device.

Description

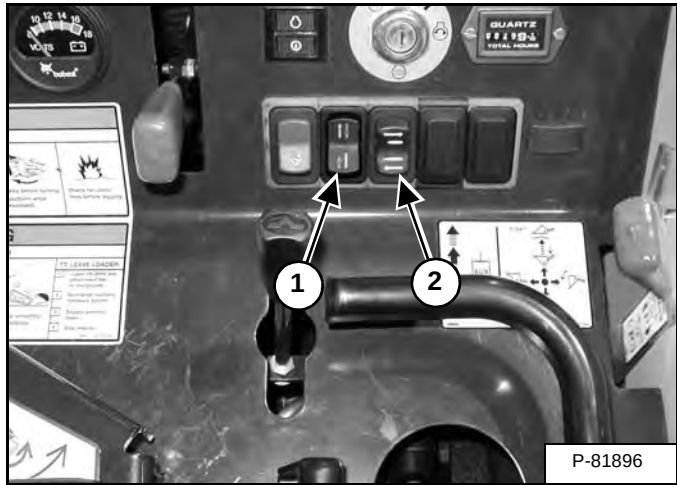
The attachment electrical harness is used to control functions on various attachments that can be used with the mini track loader.

Figure 24



The harness connector (Item 1) [Figure 24] will connect to the electrical harness on various attachments when the attachment is installed on the mini track loader.

Figure 25



The two switches (Item 1 and 2) [Figure 25] are used with the electrical harness to control the movement of different functions on the various attachments.

See the appropriate attachment Operation & Maintenance Manual for control details.

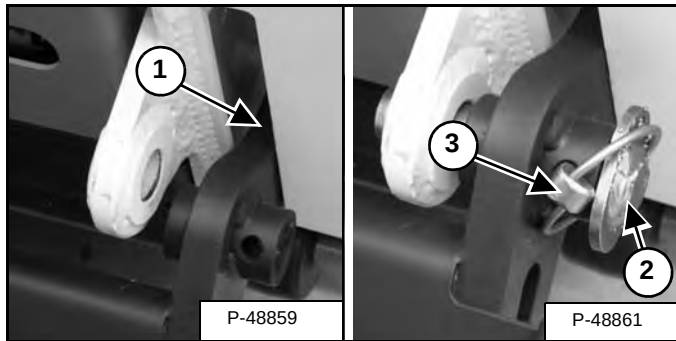
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RIDE-ON PLATFORM (HINGED) (OPTION)

Procedure

Installing The Platform

Figure 26



Install the platform tabs into the slots (Item 1) [Figure 26] in the machine frame.

Align the holes and install the pin (Item 2) [Figure 26] through the holes. Install the fastener (Item 3) [Figure 26] and put the ring in the locked position (both sides).



AVOID INJURY OR DEATH

When using the ride-on platform:

- Operate only with feet on platform and hands on controls or grab handles.
- Always look in the direction of travel.
- Make sure swing area is clear of bystanders and objects.
- Avoid drop-offs and obstacles.

W-2480-1003

RIDE-ON PLATFORM (HINGED) (OPTION) (CONT'D)

Procedure (Cont'd)

Using The Platform

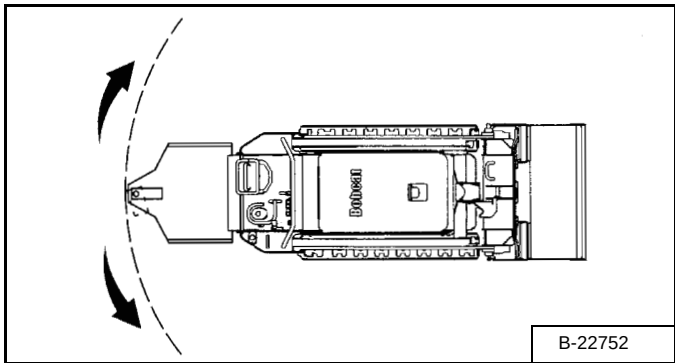
Figure 27



A hinged ride-on platform [Figure 27] is available for use on the mini track loader. It provides an area for the operator to stand while operating the machine.

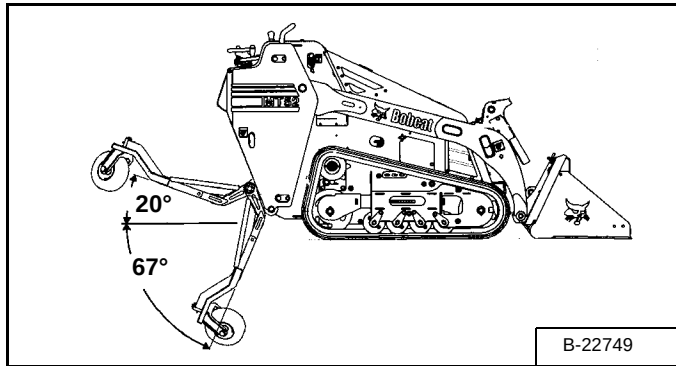
Never operate machine from the ground when platform is installed. Always keep your hands on the controls and feet on the platform while operating (Inset) [Figure 27].

Figure 28



Be aware of the increased length of the machine and the increased swing radius with the platform installed [Figure 28]. Keep bystanders well away from the work area.

Figure 29



The platform can pivot up and down while using the machine.

The maximum pivot angles are shown in [Figure 29].

**WARNING**

Never modify equipment or use attachments that are not manufactured by Bobcat.

W-2481-1003

7273439

DAILY INSPECTION (CONT'D)

Daily Inspection And Maintenance:

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The Service Schedule **[Figure 30]** is a guide for correct maintenance of the Bobcat Mini Track Loader. It is located on the underside of the hood.

- Engine Oil Level
- Hydraulic Fluid Level
- Engine Air Filter, Check Air System for Damage or Leaks
- Engine Coolant Level, Check System for Damage or Leaks
- Grease Pivot Pins (Lift Arms, Bob-Tach, Cylinders) and Bob-Tach Wedges
- Grease Track Roller and Idlers
- Check Tracks for Wear or Damage
- Fuel Filter, Remove Trapped Water
- Loose or Broken Parts, Repair or Replace as Necessary
- Safety Signs (Decals) Replace as Necessary
- Lift Arm Support Device, Replace if Damaged or Missing
- Check Function of Reverse Stop Panel, Neutral Start Interlocks and Lift / Tilt Lockouts
- Check Function of the Continuous Flow Shutoff Lever
- Check Function of Parking Brake
- Track Tension
- Clean Engine Compartment

WARNING

Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

W-2001-0502

NOTE: Fluids such as engine oil, hydraulic fluid, coolant, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for correct disposal.

IMPORTANT

PRESSURE WASHING DECALS

- Never direct the stream at a low angle toward the decal that could damage the decal causing it to peel from the surface.
- Direct the stream at a 90 degree angle and at least 300 mm (12 in) from the decal. Wash from the center of the decal toward the edges.

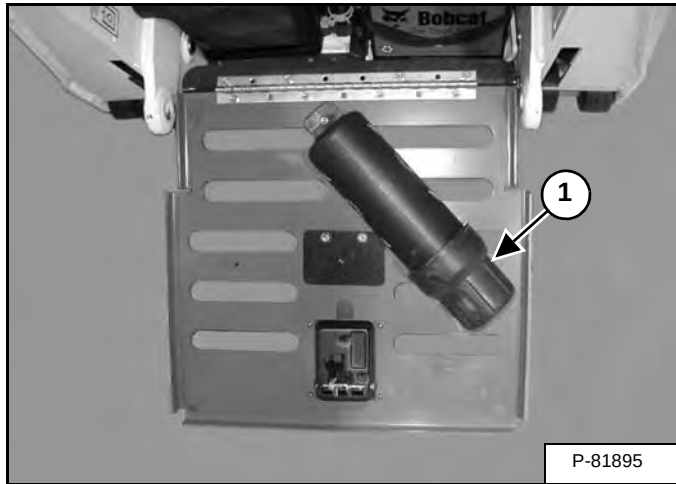
I-2226-0910

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PRE-STARTING PROCEDURE

Procedure

Figure 31



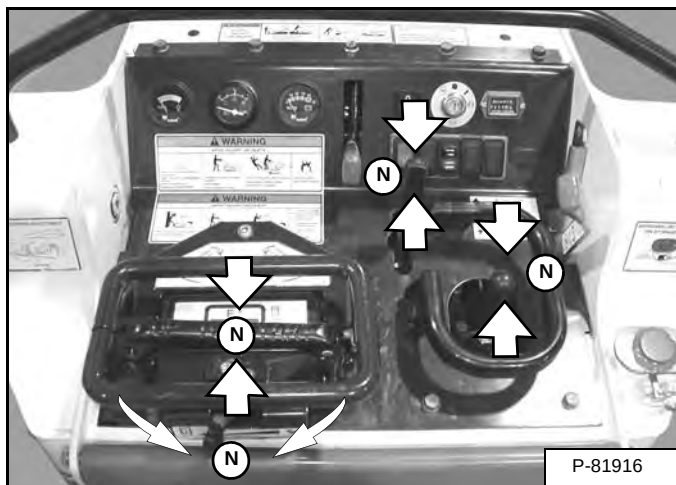
Read and understand the Operation & Maintenance Manual stored inside the rear door before operating the mini track loader (Item 1) [Figure 31].

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. Failure to follow instructions can cause injury or death.

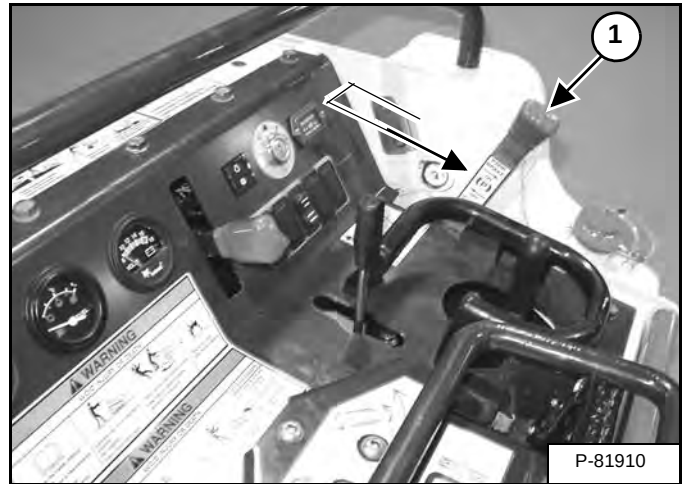
W-2406-0801

Figure 32



Put the controls in NEUTRAL "N" position [Figure 32].

Figure 33



Engage the parking brake (Item 1) [Figure 33].

Stand behind the mini track loader in the operator's position.

WARNING

AVOID INJURY OR DEATH

When operating the machine:

- Operate only from the operator's position at the rear of the loader.
- Always keep your hands on the controls.
- Stay away from the tracks.

W-2407-0801

WARNING

AVOID INJURY OR DEATH

- Movement of the attachment will occur if the tilt control is NOT in neutral when the engine is started.
- Always check that all levers are in neutral before starting the engine.

W-2482-1003

NOTE: The engine will not start unless the Drive / Steering Control and the Auxiliary Hydraulic Control Lever are in NEUTRAL and the Continuous Flow Shutoff Lever is in the UP position.

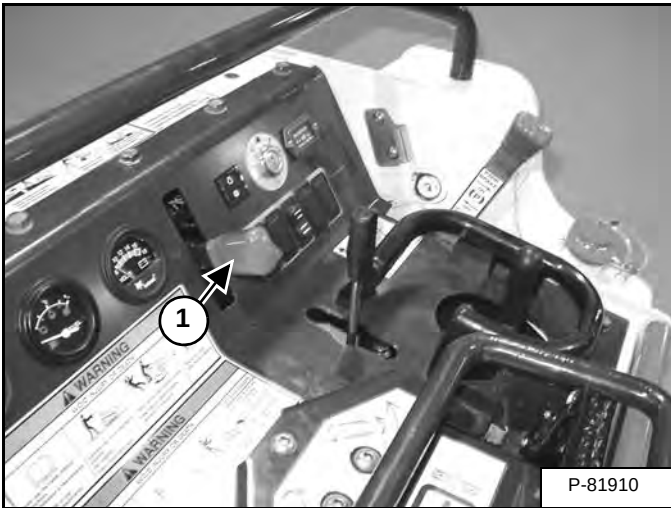
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STARTING THE ENGINE

Key Switch

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 37.)

Figure 34



Set the engine speed control (Item 1) [Figure 34] to the 1/2 speed position.

**WARNING**

EXPLOSION CAN CAUSE SERIOUS INJURY, DEATH OR SEVERE ENGINE DAMAGE
DO NOT use ether or starting fluid with glow plug or air intake heater systems.

W-2071-0415

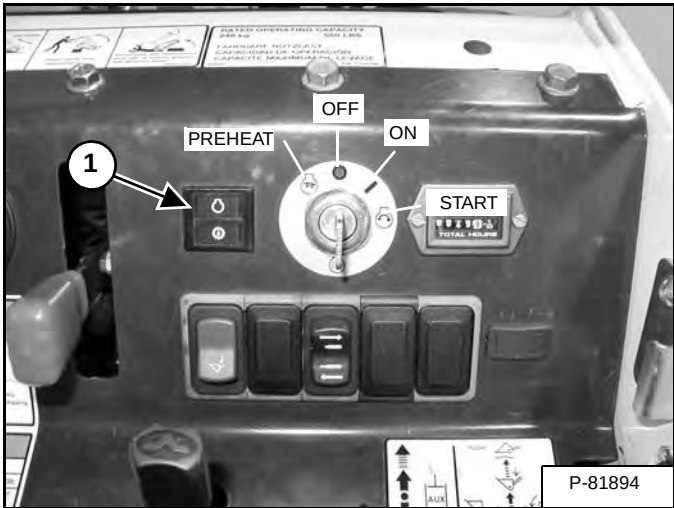
**WARNING**

AVOID SERIOUS INJURY OR DEATH

- Engines can have hot parts and hot exhaust gas. Keep flammable material away.
- Do not use machines in atmosphere containing explosive dust or gases.

W-2051-0212

Figure 35



Turn the key to the PREHEAT position (if required) [Figure 35]. (See Cold Temperature Starting on Page 39.)

Turn the key to START [Figure 35] and release the key when the engine starts. It will return to the ON position.

Stop the engine if the Warning lights (Item 1) [Figure 35] stay on after the engine is running. Check for the cause before starting the engine again.

Turn the key OFF to stop the engine.

IMPORTANT

Do not engage the starter for longer than 15 seconds at a time. Longer use can damage the starter by overheating. Allow starter to cool for one minute before using starter again.

I-2034-0700

**WARNING**

AVOID INJURY OR DEATH

When an engine is running in an enclosed area, fresh air must be added to avoid concentration of exhaust fumes. If the engine is stationary, vent the exhaust outside. Exhaust fumes contain odorless, invisible gases which can kill without warning.

W-2050-0807

STARTING THE ENGINE (CONT'D)

Cold Temperature Starting

! WARNING

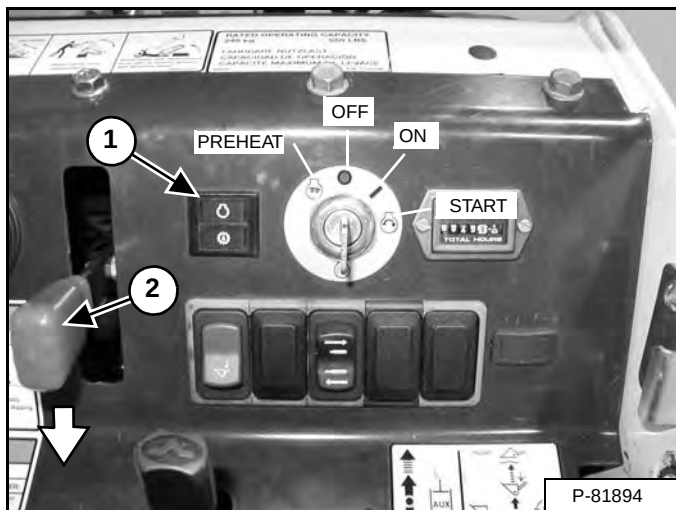
EXPLOSION CAN CAUSE SERIOUS INJURY, DEATH OR SEVERE ENGINE DAMAGE
DO NOT use ether or starting fluid with glow plug or air intake heater systems.

W-2071-0415

If the temperature is below freezing, perform the following to make starting the engine easier:

- Replace the engine oil with the correct type and viscosity for the anticipated starting temperature.
- Make sure the battery is fully charged.

Figure 36



- Turn the key to the PREHEAT position [Figure 36]. Preheat for 15 seconds MAXIMUM.

Turn the key to START [Figure 36]. Release the key when the engine starts. It will return to the ON position.

Stop the engine if the Warning lights (Item 1) [Figure 36] stay on after the engine is running. Check for the cause before starting the engine again.

Warming The Hydraulic / Hydrostatic System

Let the engine run to warm the engine and hydraulic fluid before operating the mini track loader.

IMPORTANT

When the temperature is below -30°C (-20°F), hydraulic oil must be warmed before starting. The hydraulic system will not get enough oil at low temperatures and will be damaged. Park the machine in an area where the temperature will be above -18°C (0°F) if possible.

I-2212-0910

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STOPPING THE ENGINE AND LEAVING THE MINI TRACK LOADER

Procedure

Stop the mini track loader on level ground.

Figure 37



Lower the lift arms fully and put the attachment flat on the ground [Figure 37].

Disengage the auxiliary hydraulics.

Move the engine speed control (Item 2) [Figure 36] fully down to decrease the engine speed.

Engage the parking brake.

Turn the key OFF [Figure 36].

Remove the key to prevent operation of the mini track loader by unauthorized personnel.

WARNING

Before you leave the operator's position:

- Lower the lift arm(s) fully.
- Stop the engine and engage the parking brake.
- Move all pedals, handles, joysticks, and other controls until they are LOCKED or in the NEUTRAL position.

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

W-2500-0404

ATTACHMENTS

Choosing The Correct Bucket

! WARNING

AVOID INJURY OR DEATH

Never use attachments or buckets which are not approved by Bobcat Company. Buckets and attachments for safe loads of specified densities are approved for each model. Unapproved attachments can cause injury or death.

W-2052-0907

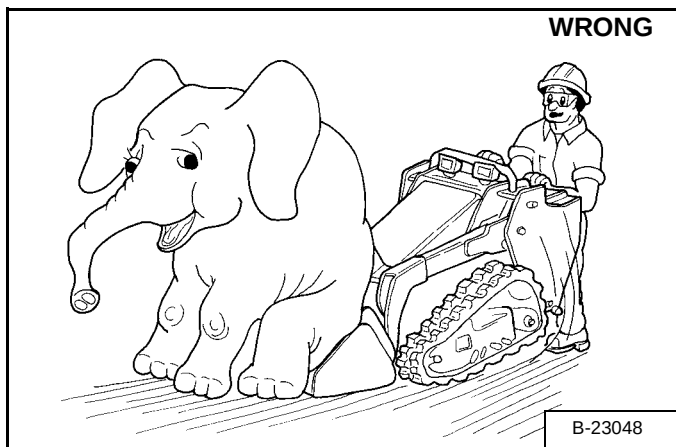
NOTE: Warranty is void if non-approved attachments are used on the Bobcat Mini Track Loader.

The dealer can identify, for each model mini track loader, the attachments and buckets approved by Bobcat. The buckets and attachments are approved for Rated Operating Capacity (ROC) and for secure fastening to the mini track loader.

The ROC for this mini track loader is shown on a decal on the machine. (See (MT55) MINI TRACK LOADER SPECIFICATIONS on Page 111.)

The ROC is determined by using a standard dirt bucket, and material of normal density, such as dirt or dry gravel. If longer buckets are used, the load center moves forward and reduces the ROC. If very dense material is loaded, the volume must be reduced to prevent overloading.

Figure 38



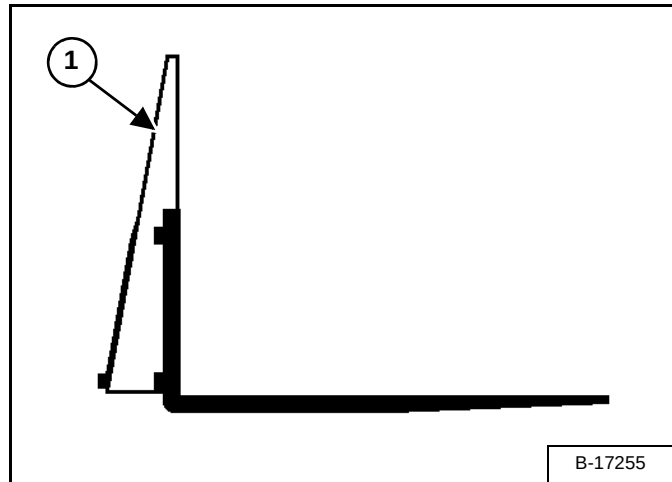
Exceeding the ROC [Figure 38] can cause the following problems:

- Difficult steering.
- Faster track wear.
- Loss of stability.
- Reduced mini track loader life.

Use the correct size bucket for the type and density of material being handled. For safe handling of materials and avoiding machine damage, the attachment (or bucket) should handle a full load without going over the ROC for the mini track loader. Partial loads make steering more difficult.

Pallet Forks

Figure 39



If a pallet fork attachment is used, the load center moves forward and reduces the load capacity.

The maximum load to be carried when using a pallet fork is shown on a decal located on the pallet fork frame (Item 1) [Figure 39].

See your Bobcat Dealer for more information about pallet fork inspection, maintenance and replacement. See your Bobcat Dealer for ROC when using a pallet fork and for other available attachments.

! WARNING

AVOID INJURY OR DEATH

Do not exceed Rated Operating Capacity (ROC). Excessive load can cause tipping or loss of control.

W-2053-0903

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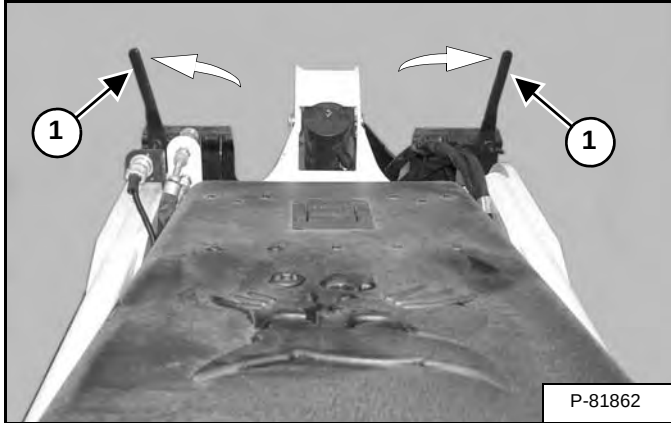
ATTACHMENTS (CONT'D)

Installing And Removing The Attachment (Bob-Tach)

The Bob-Tach is used for fast changing of buckets and other attachments. See the appropriate attachment Operation & Maintenance Manual to install other attachments.

Installing

Figure 40



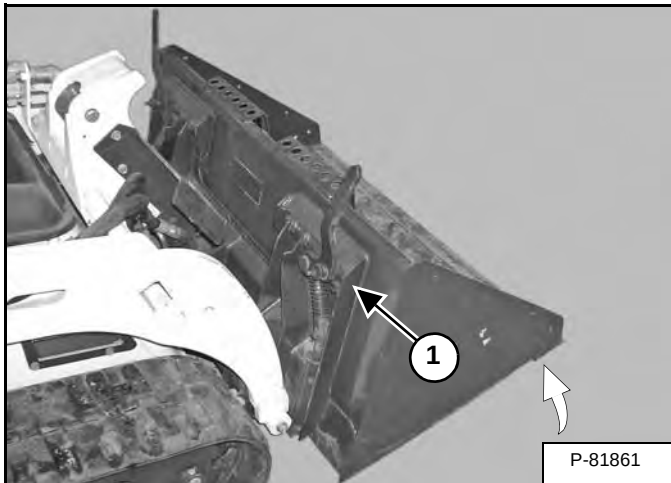
Pull the Bob-Tach levers all the way up [Figure 40].

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 37.)

Start the engine. Release the parking brake.

Lower the lift arms and tilt the Bob-Tach forward.

Figure 41

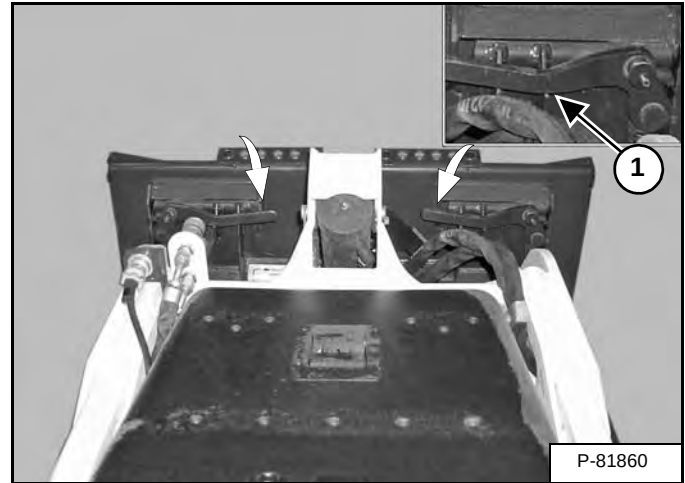


Drive forward until the top of the Bob-Tach is completely under the top flanges of the bucket (Item 1) [Figure 41] (or other attachment). Be sure the Bob-Tach levers do not hit the bucket.

Tilt the Bob-Tach backward until the cutting edge of the bucket (or other attachment) is slightly off the ground [Figure 41].

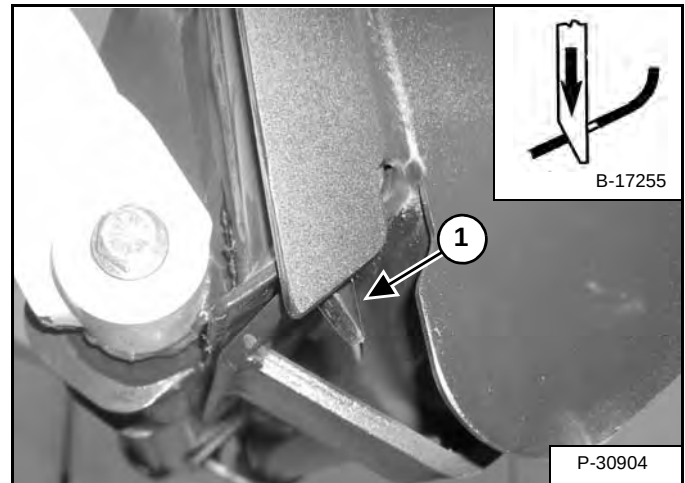
Stop the engine and engage the parking brake.

Figure 42



Push the Bob-Tach levers down until they are fully engaged in the locked position (Item 1) [Figure 42] (wedges fully extended).

Figure 43



The wedges (Item 1) [Figure 43] must extend through the holes in the mounting frame of the bucket (or attachment), securely fastening the bucket to the Bob-Tach.

WARNING

Bob-Tach wedges must extend through the holes in attachment. Lever(s) must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

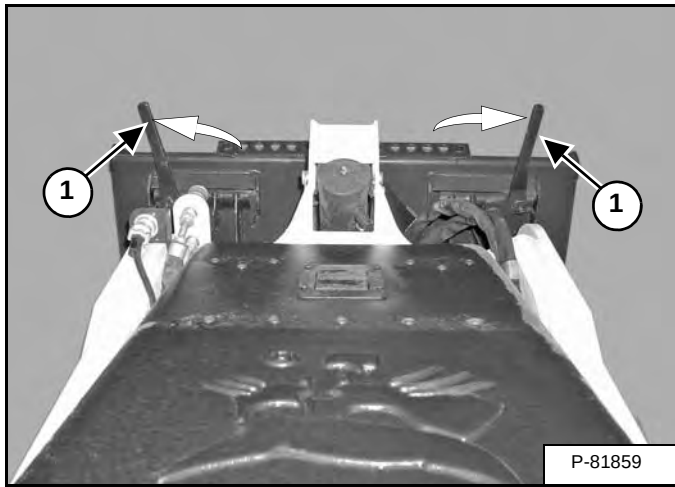
W-2102-0497

ATTACHMENTS (CONT'D)

Installing And Removing The Attachment (Bob-Tach) (Cont'd)

Removing

Figure 44



Lower the lift arms, put the attachment flat on the ground and lower or close the hydraulic equipment.

Stop the engine and engage the parking brake.

If the attachment is hydraulically controlled (combination bucket, tiller, etc.) stop the engine and relieve hydraulic pressure at the quick couplers. (See Relieve Hydraulic Pressure (Mini Track Loader And Attachment) on Page 31.)

Disconnect auxiliary hydraulic hoses.

Pull the Bob-Tach levers (Item 1) [Figure 44] all the way up.

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 37.) Start the engine. Release the parking brake.

Be sure the lift arms are all the way down. Tilt the Bob-Tach forward. Move backward, away from the bucket or attachment.

WARNING

Bob-Tach levers have spring tension. Hold lever tightly and release slowly. Failure to obey warning can cause injury.

W-2054-1285

WARNING

Before you leave the operator's position:

- Lower the lift arm(s) fully.
- Stop the engine and engage the parking brake.
- Move all pedals, handles, joysticks, and other controls until they are LOCKED or in the NEUTRAL position.

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

W-2500-0404

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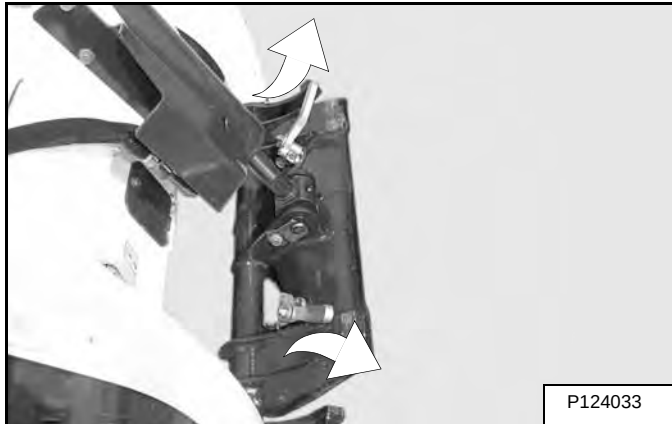
ATTACHMENTS (CONT'D)

Installing And Removing The Attachment (Common Industry Interface)

The Common Industry Interface (CII) is used for fast changing of buckets and other attachments. See the appropriate attachment Operation & Maintenance Manual for further instructions.

Installing

Figure 45



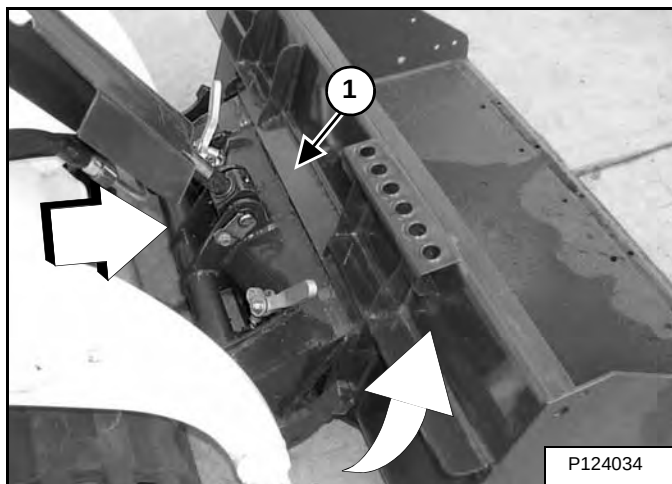
Pull the CII locking pin levers all the way up [Figure 45].

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 37.)

Start the engine. Release the parking brake.

Lower the lift arms and tilt the CII forward.

Figure 46

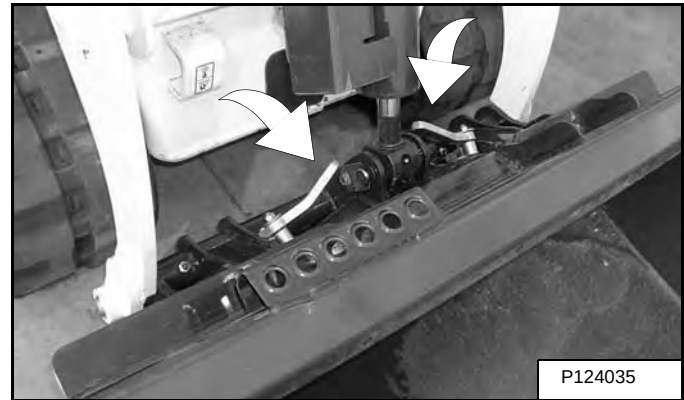


Drive forward until the top of the CII is completely under the top flange of the bucket (Item 1) [Figure 46] (or other attachment).

Tilt the CII backward until the front of the bucket (or other attachment) is slightly off the ground.

Stop the engine and engage the parking brake.

Figure 47



Push the CII locking pin levers down until they are fully engaged in the locked position [Figure 47] (pins fully extended).

WARNING

The Common Industry Interface locking pins must extend through the holes in attachment frame. Levers must be fully down and locked. Failure to secure the locking pins can allow attachment to come off and cause serious injury or death.

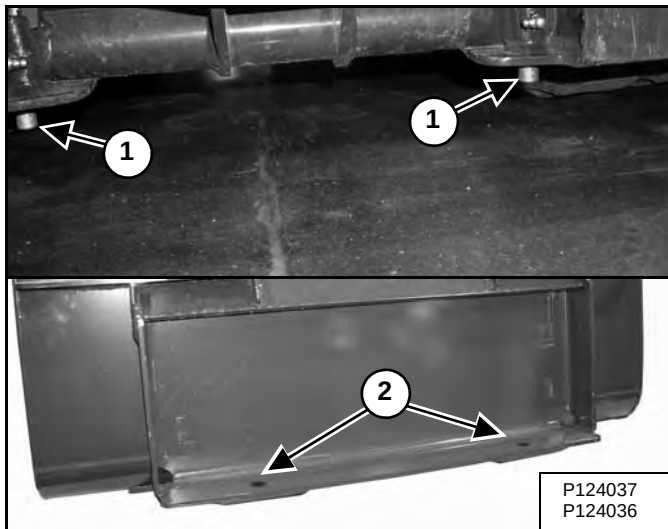
W-2996-1015

ATTACHMENTS (CONT'D)

Installing And Removing The Attachment (Common Industry Interface) (Cont'd)

Installing (Cont'd)

Figure 48



The pins (Item 1) must extend through the holes in the mounting frame of the bucket (or other attachment) (Item 2) [Figure 48], securely fastening the attachment to the interface.

! WARNING

The Common Industry Interface locking pins must extend through the holes in attachment frame. Levers must be fully down and locked. Failure to secure the locking pins can allow attachment to come off and cause serious injury or death.

W-2996-1015

Removing

Lower the lift arms, put the attachment flat on the ground and lower or close the hydraulic equipment.

Stop the engine and engage the parking brake.

If the attachment is hydraulically controlled (combination bucket, tiller, etc.) stop the engine and relieve hydraulic pressure at the quick couplers. (See Relieve Hydraulic Pressure (Mini Track Loader And Attachment) on Page 31.) Disconnect auxiliary hydraulic hoses.

! WARNING

Before you leave the operator's position at the rear of the loader:

- Lower lift arms and put attachment flat on ground.
- Disengage auxiliary hydraulic system.
- Engage parking brake.
- Stop engine. Remove key.

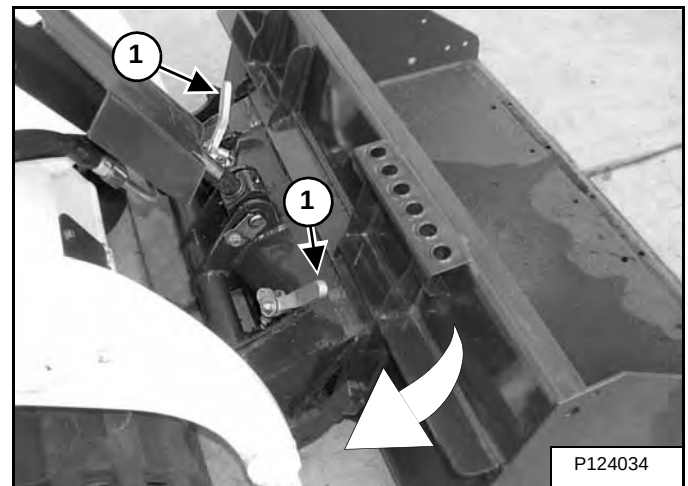
W-2416-1015

! WARNING

Locking pin levers have spring tension. Hold lever tightly and release slowly. Failure to obey warning can cause injury.

W-2997-1015

Figure 49



Pull the CII locking pin levers (Item 1) [Figure 49] all the way up.

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 37.) Start the engine. Release the parking brake.

Be sure the lift arms are all the way down. Tilt the Bob-Tach forward. Move backward, away from the bucket or attachment.

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OPERATING PROCEDURE

Inspect The Work Area

Before beginning operation, inspect the work area for unsafe conditions.

Look for sharp drop-offs or rough terrain. Have underground utility lines (gas, water, sewer, irrigation, etc.) located and marked.

Remove objects or other construction material that could damage the loader or cause personal injury.

Always check ground conditions before starting your work:

- Inspect for signs of instability such as cracks or settlement.
- Be aware of weather conditions that can affect ground stability.
- Check for adequate traction if working on a slope.

Basic Operating Instructions

Always warm the engine and hydrostatic system before operating the loader.

IMPORTANT

Machines warmed up with moderate engine speed and light load have longer life.

I-2015-0284

Operate the loader with engine at full speed for maximum horsepower. Move the Drive / Steering Controls only a small amount to operate the loader slowly.

New operators must operate the loader in an open area without bystanders. Operate the controls until the loader can be handled at an efficient and safe rate for all conditions of the work area.

Operating Near An Edge Or Water

Keep the loader as far back from the edge as possible and the loader tracks perpendicular to the edge so that if part of the edge collapses, the loader can be moved back.

Always move the loader back at any indication the edge may be unstable.

WARNING

**MACHINE TIPPING OR ROLLOVER CAN CAUSE
SERIOUS INJURY OR DEATH**

- Keep the lift arms as low as possible.
- Do not travel or turn with the lift arms up.
- Turn on level ground. Slow down when turning.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.
- Check for adequate traction.

W-2018-1112

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OPERATING PROCEDURE (CONT'D)

Driving On Rough Terrain And Over Curbs

Drive slowly when operating on rough terrain. Always carry the bucket or attachment as low as possible.

Figure 50

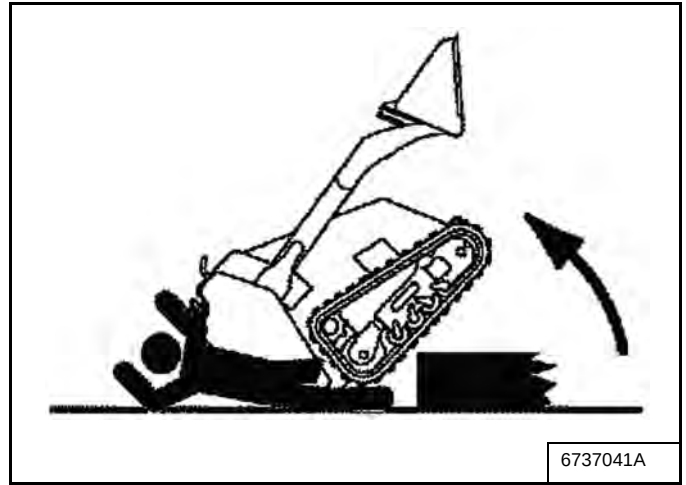


Figure 51



When the mini track loader climbs over a curb and the center of gravity goes past the curb, it will tip forward (or backward) quickly [Figure 50] and [Figure 51]. Be careful to keep your feet and body away from the tracks and rear of the machine at all times.

Figure 52



Never back off a curb or step with no load or with lift arms raised [Figure 52].

If you will be repeatedly driving over a curb or slope, build a ramp with dirt to make the ascent more gradual.

NOTE: Always keep the heavy end uphill.

Always warm the engine and hydraulic system before operating the mini track loader.

IMPORTANT

Machines warmed up with moderate engine speed and light load have longer life.

I-2015-0284

For maximum performance, run the engine at full speed.

Move the Drive / Steering Controls only a small amount to operate the mini track loader slowly.

New operators must operate the mini track loader in an open area without bystanders. Operate the controls until the mini track loader can be handled at an efficient and safe rate for all conditions of the work area.

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OPERATING PROCEDURE (CONT'D)

Driving With An Auger Attachment Installed

! WARNING

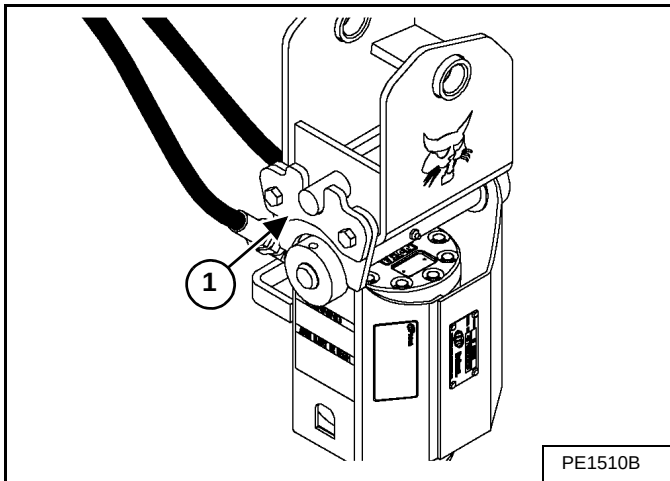
AVOID INJURY OR DEATH

Never use attachments or buckets which are not approved by Bobcat Company. Buckets and attachments for safe loads of specified densities are approved for each model. Unapproved attachments can cause injury or death.

W-2052-0907

The swing stop kit must be installed on the auger before installing on the mini track loader. Drive slowly with the auger installed. Always carry the auger as low as possible. Only light duty auger bits are approved by Bobcat Company for use on the mini track loader. (Light duty auger bits are factory painted white.)

Figure 53



The auger swing stop kit (Item 1) [Figure 53] (Kit P/N 6811444) must be installed on the auger before using this attachment on the mini track loader.

Figure 54



When driving the mini track loader with the auger installed, always have the Bob-Tach rolled back fully [Figure 54].

Lower the mini track loader arms [Figure 54] so that the auger bit is just off the ground. Slow down when traveling.

See the Direct Drive Auger Operation & Maintenance Manual for additional information.

OPERATING PROCEDURE (CONT'D)

Operating With A Full Bucket

Figure 55

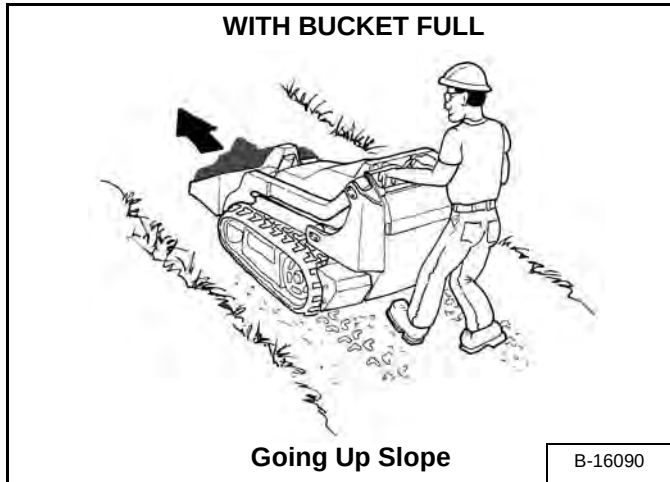


Figure 56



Keep the heavy end uphill. With a full bucket, the front of the machine is the heavy end [Figure 55] and [Figure 56].

Operating With An Empty Bucket

Figure 57

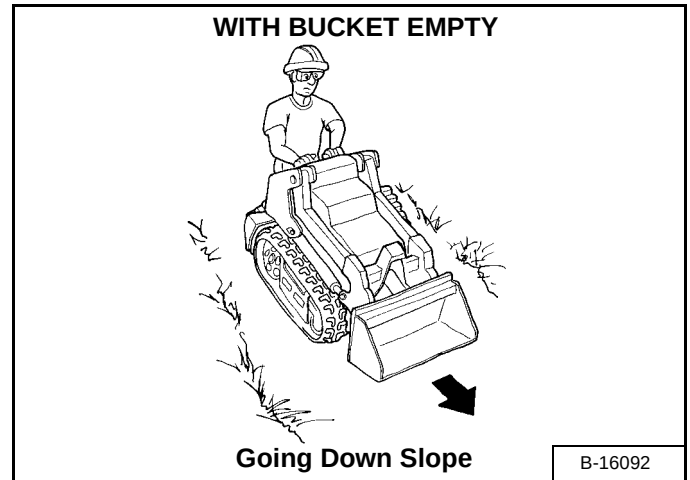
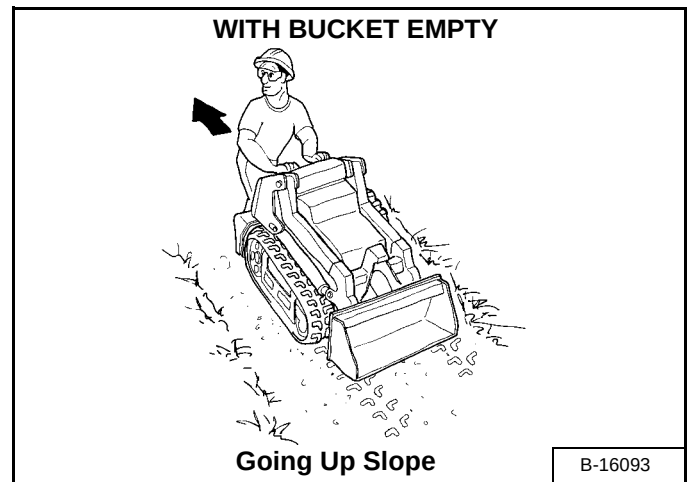


Figure 58



Keep the heavy end uphill. With empty bucket, the rear of the machine is the heavy end [Figure 57] and [Figure 58].

Go directly up or down a slope; never across a slope or curb.

WARNING

MACHINE TIPPING OR ROLLOVER CAN CAUSE SERIOUS INJURY OR DEATH

- Keep the lift arms as low as possible.
- Do not travel or turn with the lift arms up.
- Turn on level ground. Slow down when turning.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.
- Check for adequate traction.

W-2018-1112

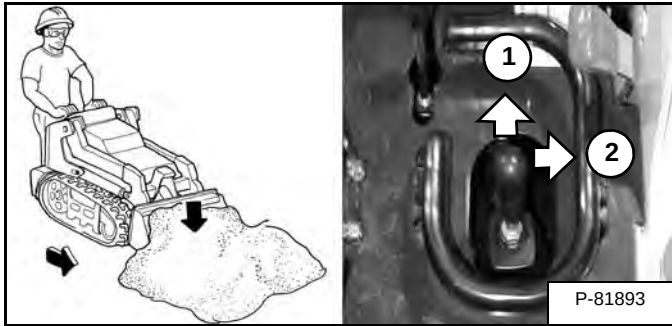
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OPERATING PROCEDURE (CONT'D)

Filling The Bucket And Emptying The Bucket

Filling

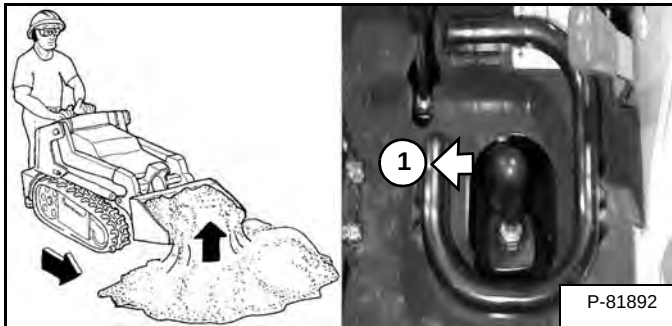
Figure 59



Move the Lift Arm / Attachment Tilt Control Lever forward (Item 1) [Figure 59] until the lift arms are all the way down.

Move the lever to the right (Item 2) [Figure 59] to put the cutting edge of the bucket on the ground.

Figure 60



Drive slowly forward into the material and move the lever to the left (Item 1) [Figure 60] to raise the front of the bucket.

Drive backward away from the material.

Raise the bucket only high enough to avoid obstructions on rough ground.

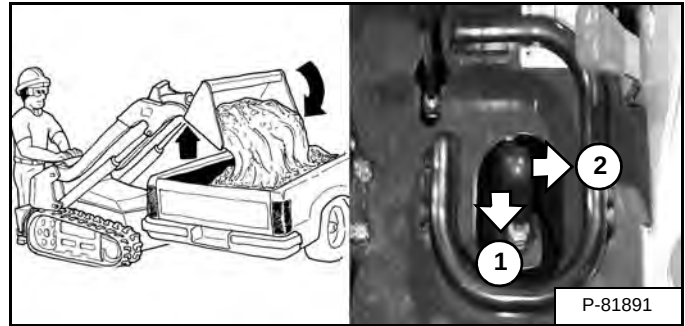
WARNING

Load, unload and turn on flat level ground. Do not exceed rated operating capacity shown on sign (decals) on the machine. Failure to obey warnings can cause the machine to tip and cause injury or death.

W-2420-0102

Emptying the Bucket

Figure 61



Move the Lift Arm / Attachment Tilt Control Lever backward (Item 1) [Figure 61] to raise the lift arms. Move the lever to the right (Item 2) [Figure 61] while raising the lift arms to level the bucket or attachment and help prevent material from falling off the back of the bucket or attachment.

Drive forward slowly until the bucket is over the top of the truck box or bin.

Move the lever to the right (Item 2) [Figure 61] until the bucket is empty. If all the material is near the side of the truck or bin, push it to the other side with the bucket.

WARNING

AVOID INJURY OR DEATH
Falling loads can cause serious injury or death.

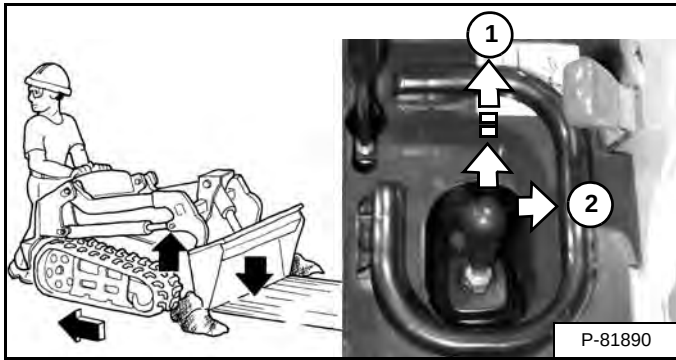
Keep load level when raising lift arms.

W-2623-1104

OPERATING PROCEDURE (CONT'D)

Leveling The Ground Using Float

Figure 62



Move the Lift Arm / Attachment Tilt Control Lever (Item 1) **[Figure 62]** all the way forward until the lever is in the locked position to put the lift arms in the *float* position.

Move the lever to the right (Item 2) **[Figure 62]** to change the position of the bucket cutting edge.

With the bucket tilted farther forward, there is more force on the cutting edge and more loose material can be moved.

Drive backward to level loose material.

Move the Lift Arm / Attachment Tilt Control Lever backward to the NEUTRAL position to unlock from the *float* position.

IMPORTANT

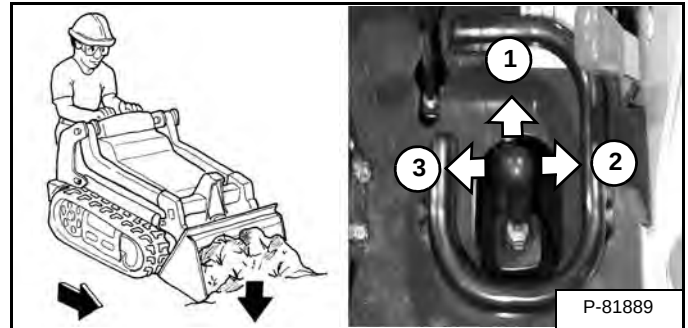
Never drive forward when the hydraulic control for lift arms is in float position.

I-2005-1285

Digging And Filling A Hole

Digging

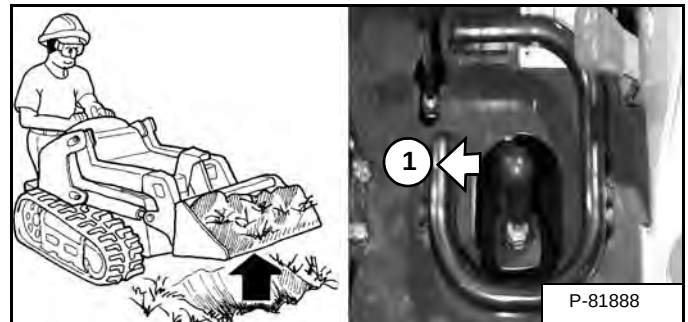
Figure 63



Move the Lift Arm / Attachment Tilt Control Lever forward (Item 1) to put the lift arms all the way down. Move the Lift Arm / Attachment Tilt Control Lever to the right (Item 2) **[Figure 63]** until the bucket cutting edge is on the ground. Drive forward slowly and continue to tilt the bucket down until it enters the ground.

Move the Lift Arm / Attachment Tilt Control Lever to the left (Item 3) a small amount to increase traction and keep an even digging depth. Continue to drive forward until the bucket is full. When the ground is hard, raise and lower the cutting edge of the bucket (Items 2 and 3) **[Figure 63]** while driving forward slowly.

Figure 64



Move the Lift Arm / Attachment Tilt Control Lever to the left (Item 1) **[Figure 64]** to tilt the bucket backward as far as it will go when the bucket is full.

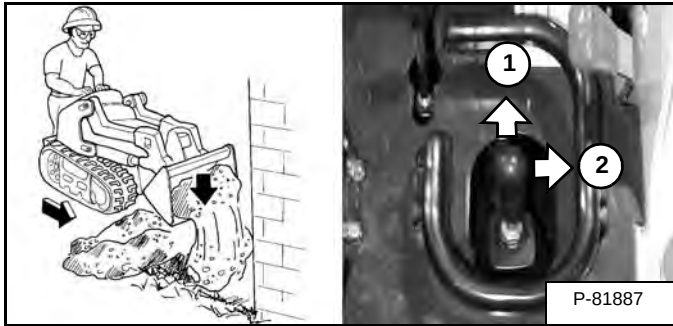
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OPERATING PROCEDURE (CONT'D)

Digging And Filling A Hole (Cont'd)

Filling

Figure 65



Move the Lift Arm / Attachment Tilt Control Lever forward (Item 1) **[Figure 65]** to lower the lift arms.

Move the Lift Arm / Attachment Tilt Control Lever to the right (Item 2) **[Figure 65]** to put the bucket cutting edge on the ground. Drive forward to the edge of the hole to push the material into the hole.

Move the Lift Arm / Attachment Tilt Control Lever to the right (Item 2) **[Figure 65]** to tilt the bucket forward as soon as it is past the edge of the hole.

If necessary, raise the lift arms to empty the bucket.



WARNING

AVOID INJURY OR DEATH

Falling loads can cause serious injury or death.

Keep load level when raising lift arms.

W-2623-1104

TOWING THE MINI TRACK LOADER

Procedure

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

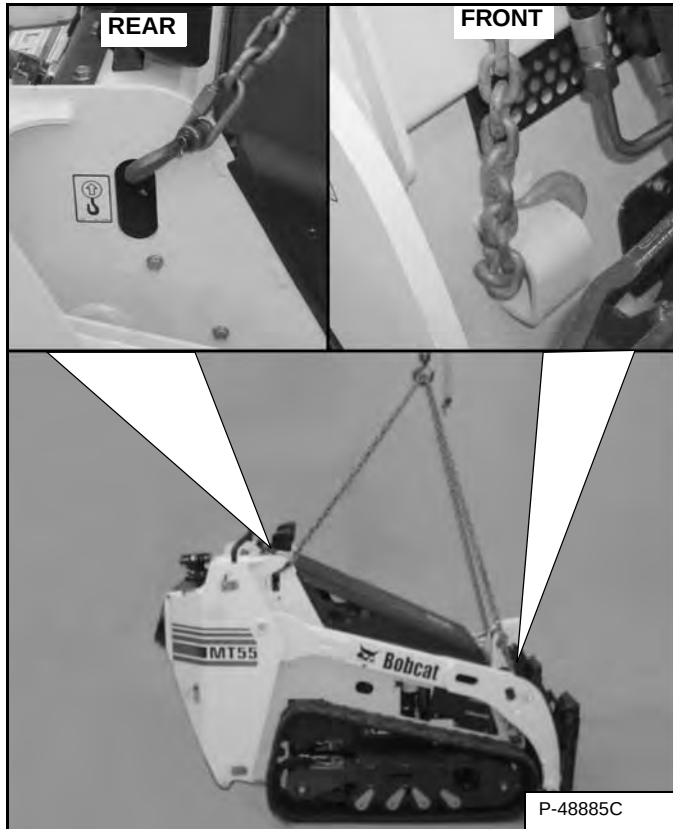
- The mini track loader can be lifted onto a transport vehicle.
- The mini track loader can be skidded a short distance to move for service (EXAMPLE: Move onto a transport vehicle.) without damage to the hydrostatic system. (The tracks will not turn.) There might be slight wear to the tracks when the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

The towing chain (or cable) must be rated at 1.5 times the weight of the mini track loader. (See Performance on Page 112.)

LIFTING THE MINI TRACK LOADER

Four Point Lift

Figure 66



The mini track loader can be lifted using four attachment points; two at the lower front of the mini track loader frame and two at the upper end of the uprights [Figure 66].

Be sure the lifting devices are of adequate strength to lift the mini track loader. For weight of mini track loader (See Performance on Page 112.)

WARNING

AVOID INJURY OR DEATH

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

W-2710-0910

TRANSPORTING THE BOBCAT MINI TRACK LOADER

Loading And Unloading

! WARNING

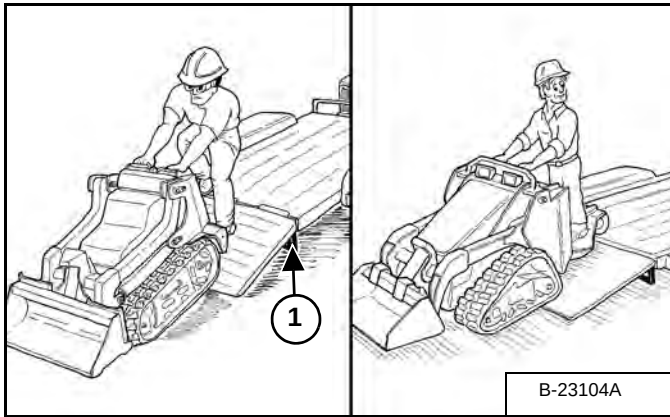
AVOID SERIOUS INJURY OR DEATH

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 112.)

Figure 67



A mini track loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle [Figure 67].

Use a full width ramp when loading a machine with Ride-On Platform [Figure 67]. The platform will pivot as you move up the ramp.

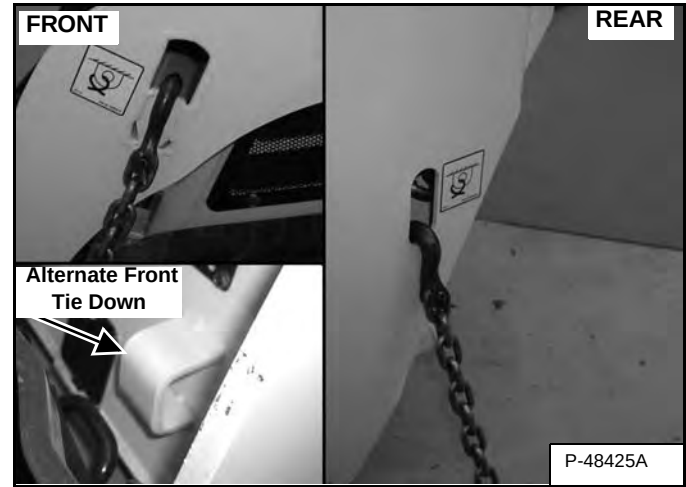
NOTE: Do not load the machine on a trailer with the Ride-On Platform installed unless you have a full width ramp. Remove the platform if a full width ramp is not available.

When using adjustable ramps, be sure the ramp width and spacing adequately 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 67] when loading or unloading the mini track loader to prevent the front end of the trailer from raising up.

Fastening

Figure 68



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 68].

- Lower the bucket or attachment fully.
- Stop the engine.
- Install chains at the front and rear tie down positions [Figure 68]. (Both sides)
- Fasten each end of the chain to the transport vehicle.
- Use load binders to tighten the chains.

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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-2003-0807

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.

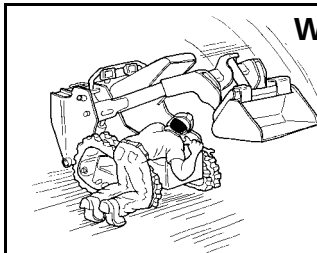
WRONG



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.

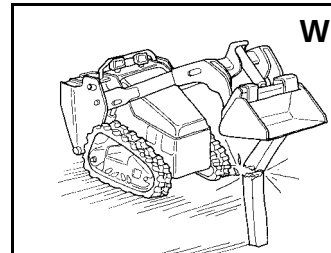
WRONG



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.

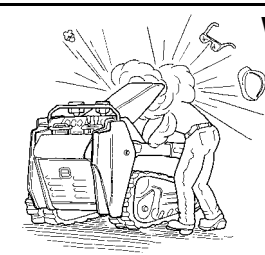
WRONG



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.

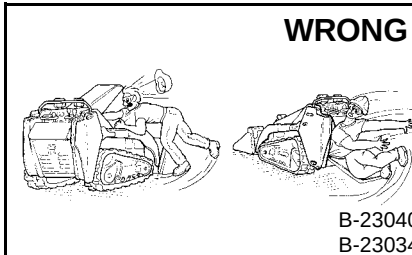
WRONG



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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Bobcat®

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.



WARNING

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. (See Page 74.)
- **Engine Air Filters and Air System** - Check air filter condition indicator. Service filters only when required. Check for leaks and damaged components. (See Page 70.)
- **Engine Cooling System** - Clean debris from radiator and oil cooler areas. Check coolant level COLD and add premixed coolant as needed. (See Page 77.)
- **Fuel Filter** - Drain water and sediment from filter. (See Page 73.)
- **Hydraulic Fluid** - Check fluid level and add as needed. Do not over fill. (See Page 82.)
- **Lift Arms, Cylinders, Bob-Tach, Pivot Pins, Wedges, Rollers And Idlers** - Lubricate with multipurpose lithium based grease. (See Page 89.)
- **Reverse Stop Panel, Neutral Start Interlocks, and Lift / Tilt Lockouts Systems** - Check for correct function. Clean dirt and debris from moving parts. (See Page 63.), and (See Page 64.)
- **Parking Brake** - Check for proper function. (See Page 25.)
- **Indicators and Lights** - Check for function. Clean or repair as needed. (See Page 23.)
- **Safety Signs** - Check for damaged signs (decals). Replace any signs that are damaged. (See MACHINE SIGNS (DECALS) on Page 17.)
- **Continuous Flow Shutoff Lever** - Check for proper function. (See Page 65.)

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. (See Page 85.)

Every 100 Hours

- **Engine Oil and Filter** - Service at first 50 hours, then as scheduled. Replace oil and filter. (See Page 74.)
- **Battery** - Check battery for damage. Check cables, connections, and electrolyte level; add distilled water as needed. (See Page 79.)
- **Drive Belts (Alternator / Water Pump / Fan Drive)** - Check condition. Replace as needed. (See Page 86.)
- **Spark Arrestor Muffler** - Clean spark chamber. (See Page 84.)

Every 250 Hours Or Every 12 Months

- **Fuel Filter** - Replace filter. (See Page 73.)
- **Lift Arm Lockout** - Check function of manual bypass control.

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SERVICE SCHEDULE (CONT'D)

Maintenance Intervals (Cont'd)

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. (See Page 83.)
- **Drive Belt (Hydrostatic)** - Check condition. Adjust or replace as needed. (See Page 86.)
- **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. (See Page 83.)

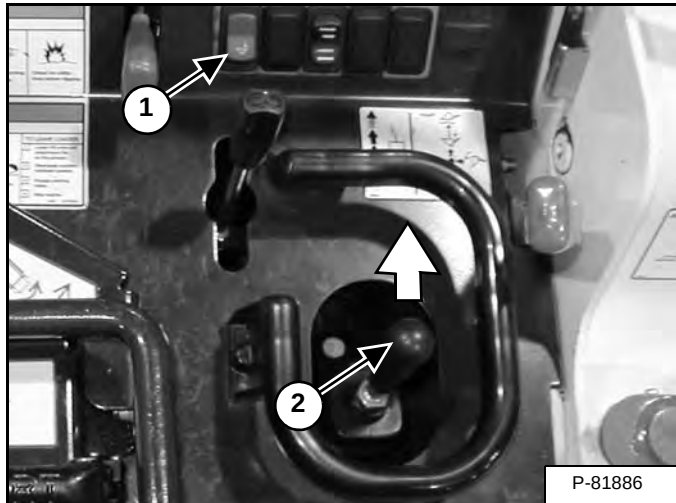
Every 24 Months

- **Coolant** - Replace the coolant. (See Page 78.)

LIFT ARM BY-PASS CONTROL

Inspection

Figure 69



1. Stand in the operator's position, start the engine and raise the lift arms about 914, mm (3 ft) off the ground. Stop the engine. Engage the parking brake.
2. Make sure the area around the machine is clear of bystanders.
3. Press and hold the switch for the lift arm by-pass (Item 1) [Figure 69].
4. Move the lift arm control lever forward slightly (Item 2) [Figure 69]. The lift arms should slowly lower. See your Bobcat dealer for repair if by-pass does not function correctly.

REVERSE STOP PANEL

Inspection

The Reverse Stop Panel will stop the mini track loader from moving backward when the panel is pushed forward.

Figure 70



1. Make sure the area around the machine is clear of bystanders.
2. Start the engine and use one hand to drive the machine backward (Item 1) [Figure 70].
3. Use your other hand to push the Reverse Stop Panel forward (Item 2) [Figure 70].

The mini track loader must stop backward movement when the Reverse Stop Panel is pushed forward.

When the Reverse Stop Panel is fully pressed, the mini track loader will stop moving in the reverse direction and will start to move slowly in the forward direction.

If the Reverse Stop Panel does not function correctly, see your Bobcat Dealer for adjustment.

WARNING

The Reverse Stop Panel, Neutral Start Interlocks, and Lift / Tilt Lockouts must function properly.

- The Reverse Stop Panel must stop mini loader from moving backward when panel is pushed forward.
- The Lift / Tilt Lockouts must deactivate the lift and tilt functions when engine is off.

If any of these do not function properly, contact your dealer for service. DO NOT modify system.

W-2559-0207

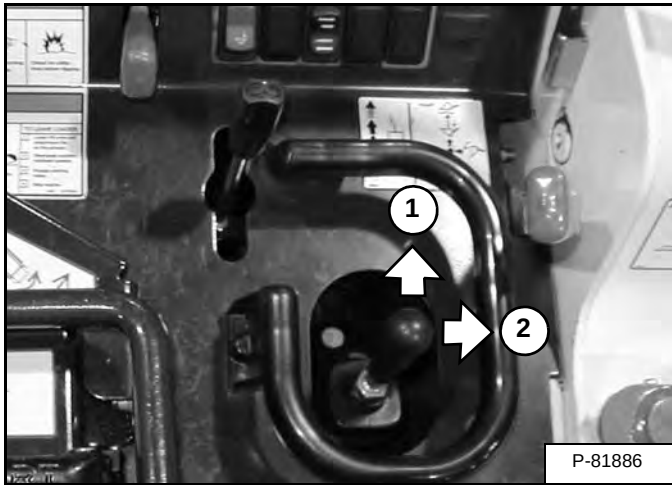
Dealer Copy -- Not for Resale

LIFT AND TILT FUNCTION LOCKOUTS

Inspection

1. Stand at the operator's position behind the mini track loader and start the engine.
2. Raise the lift arms about 914 mm (3 ft) off the ground.
3. Turn the key OFF and wait for the engine to come to a complete stop. Engage the parking brake.
4. Make sure the area around the machine is clear of bystanders.

Figure 71



5. Move the Lift Arm / Attachment Tilt Control Lever forward to lower the lift arms (Item 1) [Figure 71]. The lever must not move and the lift arms must not lower.
6. Move the Lift Arm / Attachment Tilt Control Lever right to tilt the bucket (or attachment) forward (Item 2) [Figure 71]. The lever must not move and the bucket must not tilt forward.

NOTE: See your Bobcat dealer for repair if the lift / tilt lockout does not function properly.



WARNING

The Reverse Stop Panel, Neutral Start Interlocks, and Lift / Tilt Lockouts must function properly.

- The Reverse Stop Panel must stop mini loader from moving backward when panel is pushed forward.
- The Lift / Tilt Lockouts must deactivate the lift and tilt functions when engine is off.

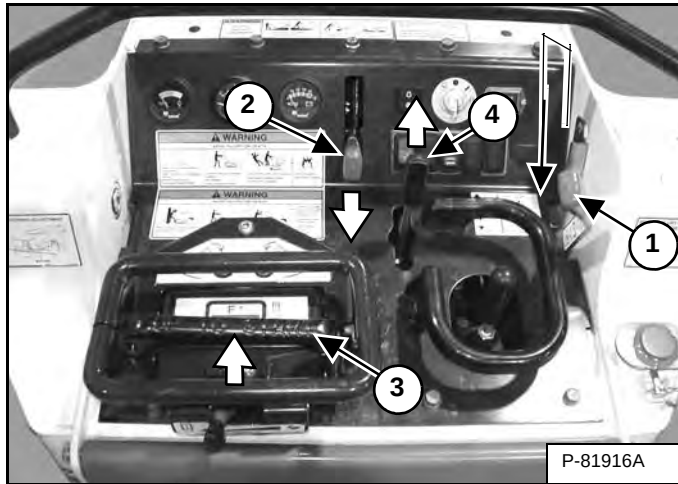
If any of these do not function properly, contact your dealer for service. **DO NOT** modify system.

W-2559-0207

NEUTRAL START INTERLOCKS

Inspecting Traction Drive Interlock

Figure 72



1. Stop the engine, engage the parking brake (Item 1) [Figure 72] and place all controls in NEUTRAL.
2. Make sure the area around the machine is clear of bystanders.
3. Set the engine speed to slow (Item 2) [Figure 72].
4. Partially move the Drive / Steering Control (Item 3) [Figure 72] in the forward direction and turn the key switch to START position.
5. The starter must not engage.
6. Repeat procedure with the Drive / Steering Control being moved in the backward direction.
7. Repeat procedure with the Drive / Steering Control being moved in the right direction.
8. Repeat procedure with the Drive / Steering Control being moved in the left direction.

Inspecting The Continuous Flow Shutoff Lever

1. Stop the engine, engage the parking brake (Item 1) [Figure 72] and place all controls in NEUTRAL.
2. Make sure the area around the machine is clear of bystanders.
3. Set the engine speed to slow (Item 2) [Figure 72].
4. Depress the Continuous Flow Shutoff Lever (Item 3) [Figure 72] so the lever is in the DOWN position.
5. Turn the key switch to START position.

6. The starter must not engage.
7. Release the Continuous Flow Shutoff Lever (Item 3) [Figure 72]. The lever must return to the UP position.

Inspecting Auxiliary Hydraulic Interlock

1. Stop the engine, engage the parking brake (Item 1) [Figure 72] and place all controls in NEUTRAL.
2. Make sure the area around the machine is clear of bystanders.
3. Set the engine speed lever (Item 2) [Figure 72] to slow.
4. Push and hold the Auxiliary Hydraulic Control Lever forward (Item 4) [Figure 72] and turn the key switch to START position.
5. The starter must not engage.
6. Repeat procedure with the Auxiliary Hydraulic Control Lever pulled backward.

NOTE: If any of the controls in these previous inspection procedures do not function properly, contact your dealer for service. **DO NOT** modify the system.

WARNING

The Reverse Stop Panel, Neutral Start Interlocks, and Lift / Tilt Lockouts must function properly.

- The Reverse Stop Panel must stop mini loader from moving backward when panel is pushed forward.
- The Lift / Tilt Lockouts must deactivate the lift and tilt functions when engine is off.

If any of these do not function properly, contact your dealer for service. **DO NOT** modify system.

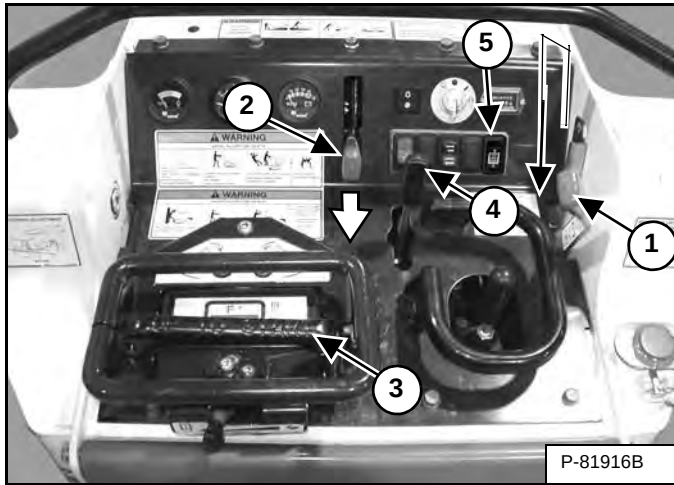
W-2559-0207

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AUXILIARY HYDRAULIC CONTROL SYSTEM

Inspecting The Continuous Flow Shutoff Lever

Figure 73



1. Stop the engine and engage the parking brake (Item 1) [Figure 73].
2. Make sure the area around the machine is clear of bystanders.
3. Set the engine speed to slow (Item 2) [Figure 73].
4. Turn the key to the ON position but do not start the engine.
5. Move the Auxiliary Hydraulic Mode Switch (Item 5) [Figure 73] to the "A" position (if equipped).
6. Depress the Continuous Flow Shutoff Lever (Item 3) [Figure 73] so the lever is in the DOWN position.
7. Move the Auxiliary Hydraulic Control Lever (Item 4) [Figure 73] fully forward into the locked (detent) position.
8. Release the Continuous Flow Shutoff Lever (Item 3) [Figure 73]. The lever must return to the UP position.
9. The Auxiliary Hydraulic Control Lever (Item 4) [Figure 73] must return to the NEUTRAL position in approximately one to three seconds.
10. Repeat the procedure with the Auxiliary Hydraulic Control Lever (Item 4) [Figure 73] fully backward into the locked (detent) position.

NOTE: Contact your dealer for service if the Continuous Flow Shutoff Lever does not function properly.

Inspecting The Auxiliary Hydraulic Mode Switch (If Equipped)

Perform the "Inspecting The Continuous Flow Shutoff Lever" procedure with the Auxiliary Hydraulic Mode Switch (Item 5) [Figure 73] in the "A" position.

Perform the following procedure with the Auxiliary Hydraulic Mode Switch (Item 5) [Figure 73] in the "B" position.

1. Stop the engine and engage the parking brake (Item 1) [Figure 73].
2. Make sure the area around the machine is clear of bystanders.
3. Set the engine speed to slow (Item 2) [Figure 73].
4. Turn the key to the ON position but do not start the engine.
5. Move the Auxiliary Hydraulic Mode Switch (Item 5) [Figure 73] to the "B" position.
6. Move the Auxiliary Hydraulic Control Lever (Item 4) [Figure 73] fully forward into the locked (detent) position.
7. Depress the Continuous Flow Shutoff Lever (Item 3) [Figure 73] so the lever is in the DOWN position.
8. The Auxiliary Hydraulic Control Lever (Item 4) [Figure 73] must return to the NEUTRAL position.
9. Repeat the procedure with the Auxiliary Hydraulic Control Lever (Item 4) [Figure 73] fully backward into the locked (detent) position.
10. Move the Auxiliary Hydraulic Mode Switch (Item 5) [Figure 73] back to the "A" position.

NOTE: Contact your Bobcat dealer for service if the Auxiliary Hydraulic Mode Switch does not function properly.

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

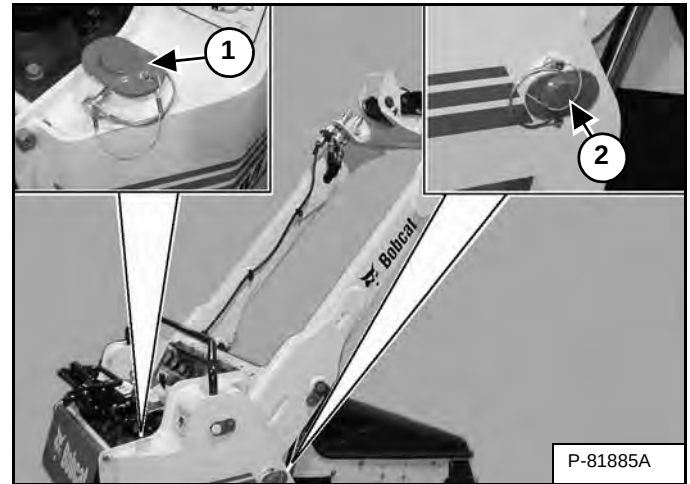
Repair the support device if damaged or if parts are missing. Using a damaged support device or with missing parts can cause lift arms or boom to fall causing serious injury or death.

W-2271-1007

Stop the mini track loader on a flat, level surface.

Remove any attachment from the mini track loader. (See Installing And Removing The Attachment (Bob-Tach) on Page 42.)

Figure 74



Remove the retainer pin and remove the lift arm support device (Item 1) [Figure 74] 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 74] 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 74].

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.

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HOOD

Operation



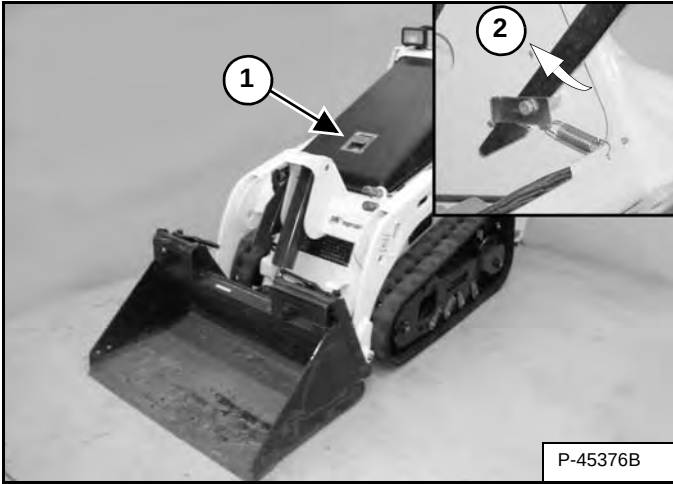
WARNING

AVOID INJURY OR DEATH

Never service or adjust the machine when the engine is running unless instructed to do so in the manual.

W-2012-0497

Figure 75



Release the hood latch (Item 1) [Figure 75]. Raise and open the hood until the prop bar engages.

Raise the hood slightly and push the prop backward to disengage (Item 2) [Figure 75], and lower the hood.

NOTE: Lift arms must be lowered, or fully raised with lift arm support device installed before opening the hood.



WARNING

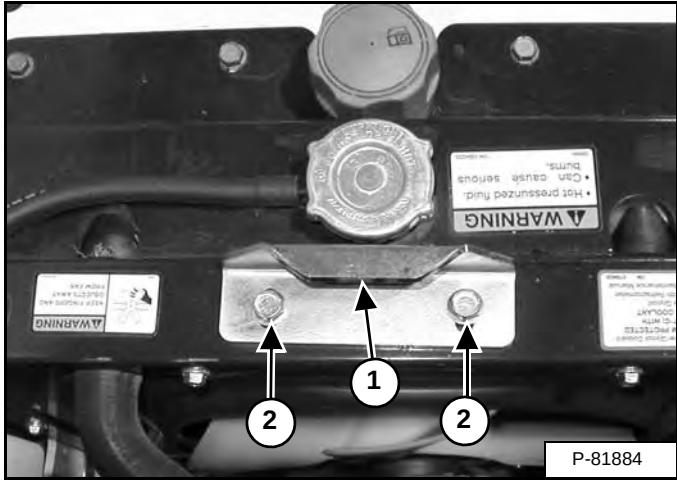
Keep the engine cover closed when operating the machine. Failure to do so could seriously injure the operator.

W-2409-0801

Push firmly down on the hood to engage the latch.

Striker Adjustment

Figure 76



The hood latch striker (Item 1) is adjusted by loosening the two bolts (Item 2) [Figure 76] and sliding the striker forward and back until the proper engagement is obtained.

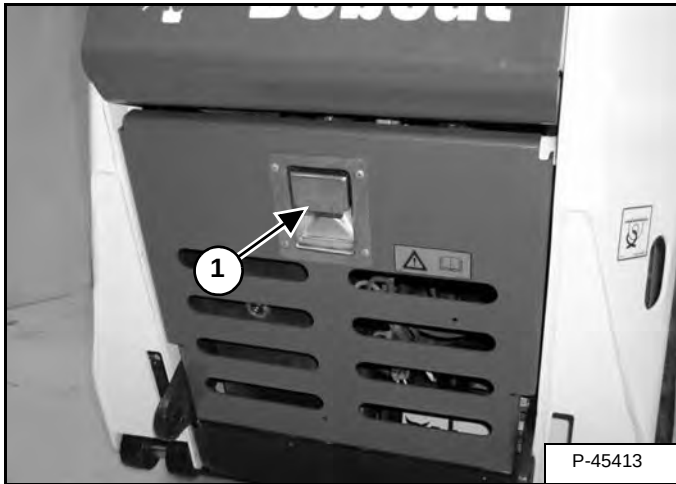
When the proper engagement is obtained, tighten the bolts.

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REAR DOOR

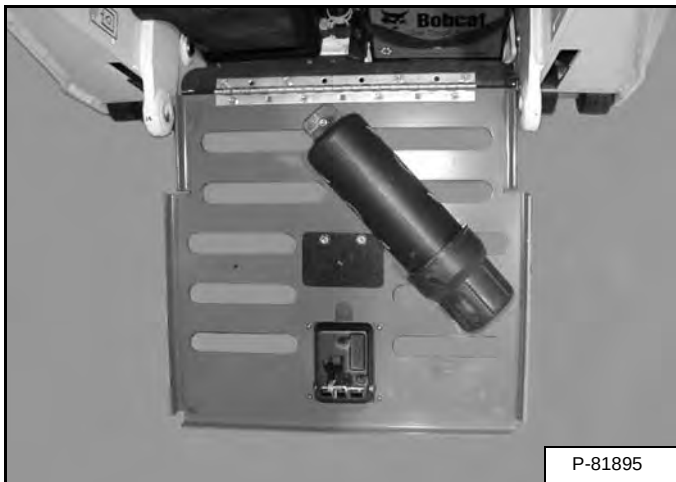
Opening And Closing

Figure 77



Release the latch (Item 1) [Figure 77].

Figure 78



The rear door will pivot down [Figure 78] to provide access for maintenance.

NOTE: When the optional ride-on platform is installed, the rear door will not fully open.

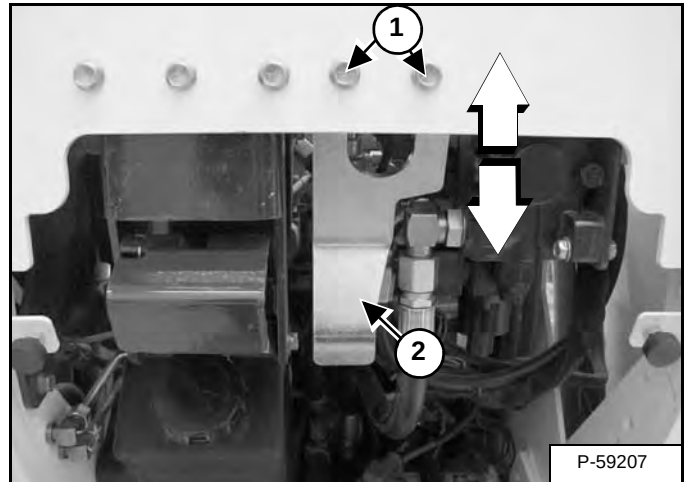
WARNING

Keep the rear door closed when operating the machine. Failure to do so could seriously injure the operator.

W-2410-0107

Striker Adjustment

Figure 79



Loosen the two bolts (Item 1) and re-position the striker (Item 2) [Figure 79] until the rear door latches properly.

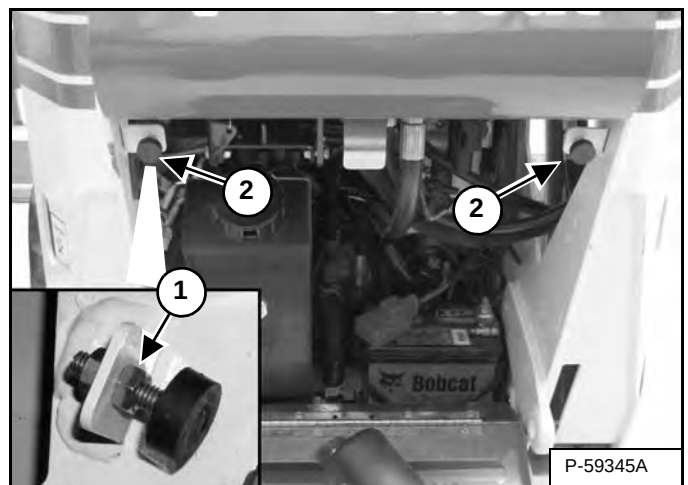
NOTE: The striker mounting bolts (Item 1) [Figure 79] are also secured with nuts on the backside of the striker.

NOTE: The striker has slots that allow movement up or down to achieve proper engagement of the rear door latch.

With the striker at the proper position tighten the two bolts (Item 1) [Figure 79].

Bumper Adjustment

Figure 80



Loosen jam nut (Item 1) [Figure 80].

Adjust the bumpers (Item 2) [Figure 80] until the rear door latches properly and there is no movement after the rear door is closed.

When the adjustments are completed, tighten the jam nut (Item 1) [Figure 80].

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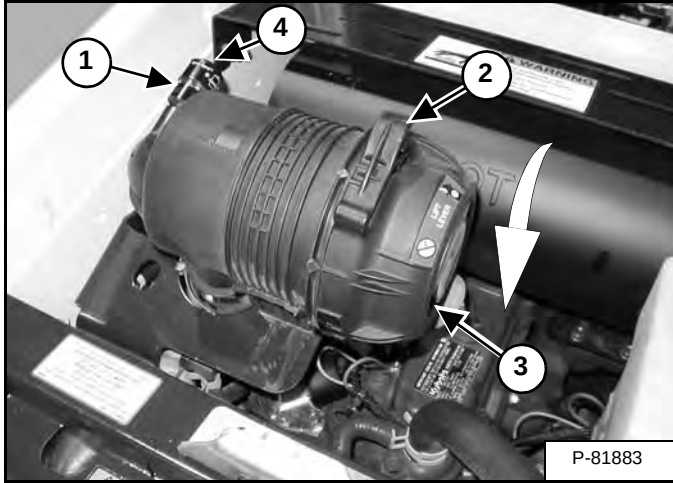
AIR CLEANER SERVICE

Replacing The Filter Elements

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

For the correct service interval (See SERVICE SCHEDULE on Page 61.)

Figure 81



Replace the outer filter only when the red ring shows in the condition indicator window (Item 1) [Figure 81].

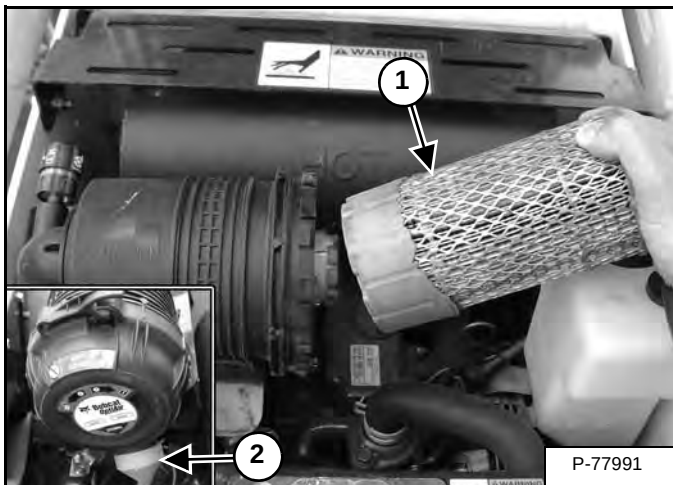
Replace the inner filter every third time the outer filter is replaced or as indicated below.

Outer Filter

Pull up on the locking lever (Item 2) and hold while turning the dust cover (Item 3) [Figure 81] counterclockwise.

Remove and clean the dust cover.

Figure 82



Remove the outer filter element (Item 1) [Figure 82].

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 82] 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.

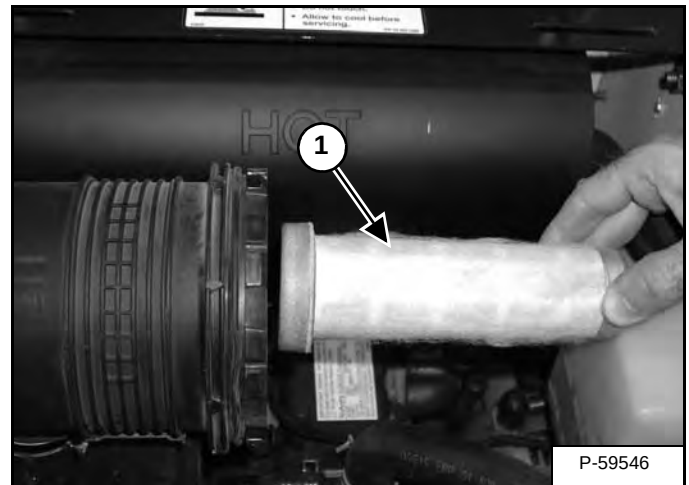
Press the button (Item 4) [Figure 81] to remove the red ring on the condition indicator.

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 81] 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 83



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 83].

Install the outer filter.

Install the dust cover. Be sure the air cleaner valve (Item 2) [Figure 82] is down. Turn cover clockwise 1/8 turn to engage the latch.

Press the button (Item 4) [Figure 81] on the condition indicator to remove the red ring.

FUEL SYSTEM

Fuel Specifications

Use only clean, high quality diesel fuel, Grade No. 2 or Grade No. 1.

The following is one suggested blending guideline which should prevent fuel gelling during cold temperatures:

TEMPERATURE C° (F°)	NO. 2	NO. 1
-9° (+15°)	100%	0%
Down to -29° (-20°)	50%	50%
Below -29° (-20°)	0%	100%

At a minimum, low sulfur diesel fuel must be used in this machine. Low sulfur is defined as 500 mg/kg (500 ppm) sulfur maximum.

The following fuels may also be used in this machine:

- Ultra low sulfur diesel fuel. Ultra low sulfur is defined as 15 mg/kg (15 ppm) sulfur maximum.
- Biodiesel blend fuel - Must contain no more than five percent biodiesel mixed with low sulfur or ultra low sulfur petroleum based diesel. This is commonly marketed as B5 blended diesel fuel. B5 blended diesel fuel must meet ASTM D975 (US Standard) or EN590 (EU Standard) specifications.

Biodiesel Blend Fuel

Biodiesel blend fuel has unique qualities that should be considered before using in this machine:

- Cold weather conditions can lead to plugged fuel system components and hard starting.
- Biodiesel blend fuel is an excellent medium for microbial growth and contamination which can cause corrosion and plugging of fuel system components.
- Use of biodiesel blend fuel may result in premature failure of fuel system components, such as plugged fuel filters and deteriorated fuel lines.
- Shorter maintenance intervals may be required, such as cleaning the fuel system and replacing fuel filters and fuel lines.
- Using biodiesel blended fuels containing more than five percent biodiesel can affect engine life and cause deterioration of hoses, tubelines, injectors, injector pump and seals.

Apply the following guidelines if biodiesel blend fuel is used:

- Ensure the fuel tank is as full as possible at all times to prevent moisture from collecting in the fuel tank.
- Ensure that the fuel tank cap is securely tightened.
- Biodiesel blend fuel can damage painted surfaces, remove all spilled fuel from painted surfaces immediately.
- Drain all water from the fuel filter daily before operating the machine.
- Do not exceed engine oil change interval. Extended oil change intervals can cause engine damage.
- Before vehicle storage; drain the fuel tank, refill with 100% petroleum diesel fuel, add fuel stabilizer and run the engine for at least 30 minutes.

NOTE: Biodiesel blend fuel does not have long term stability and should not be stored for more than three months.

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FUEL SYSTEM (CONT'D)

Filling The Fuel Tank

!

WARNING

AVOID INJURY OR DEATH
Stop and cool the engine before adding fuel. **NO SMOKING!** Failure to obey warnings can cause an explosion or fire.

W-2063-0807

!

WARNING

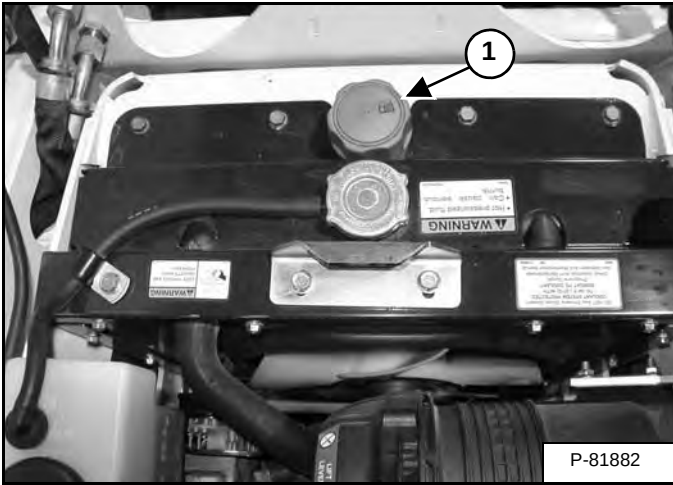
AVOID INJURY OR DEATH
Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

W-2103-0508

Be sure engine is cool then open the hood.

NOTE: Lift arms must be lowered, or fully raised with lift arm support device installed before opening the hood.

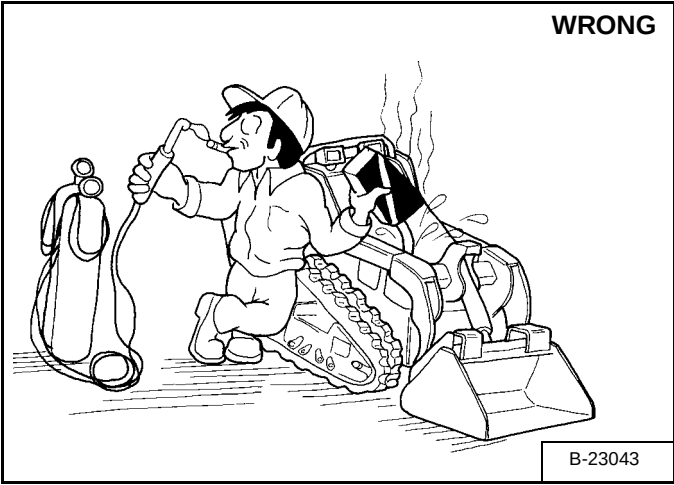
Figure 84



Open the hood.

Remove the fuel fill cap (Item 1) [Figure 84].

Figure 85



Use a clean, approved safety container to add fuel of the correct specifications. Add fuel only in an area that has free movement of air and no open flames or sparks. **NO SMOKING!** [Figure 85].

Install and tighten the fuel fill cap (Item 1) [Figure 84].

Close and latch hood.

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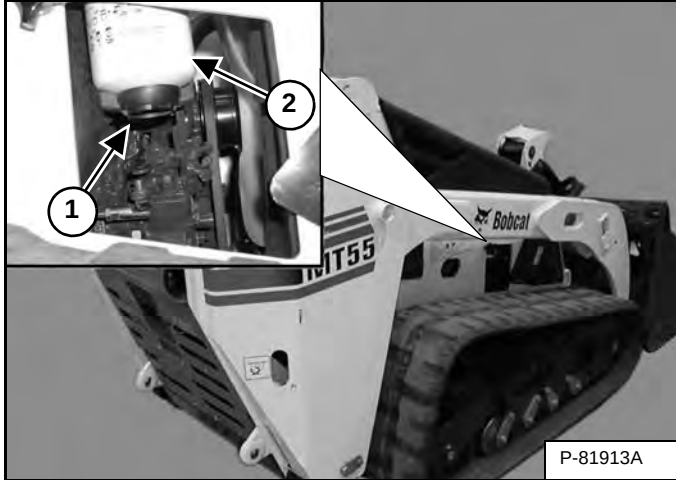
FUEL SYSTEM (CONT'D)

Fuel Filter

See the Service Schedule for the service interval for removing water from, or replacing the fuel filter. (See SERVICE SCHEDULE on Page 61.)

Removing Water

Figure 86



Loosen the thumb nut and open the access cover on the right side of the machine [Figure 86].

Loosen the drain (Item 1) [Figure 86] at the bottom of the filter to remove water from the filter. Tighten the drain.

Replacing Element

Remove the filter element (Item 2) [Figure 86].

Clean the area around the filter housing. Put clean oil on the seal of the new filter element. Install the fuel filter element and hand tighten.

Remove the air from the fuel system.

Removing Air From The Fuel System

After replacing the filter or when the fuel tank has run out of fuel, the air must be removed from the fuel system before starting the engine.

WARNING

AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0807

Engine and muffler must be cool before beginning.

Figure 87



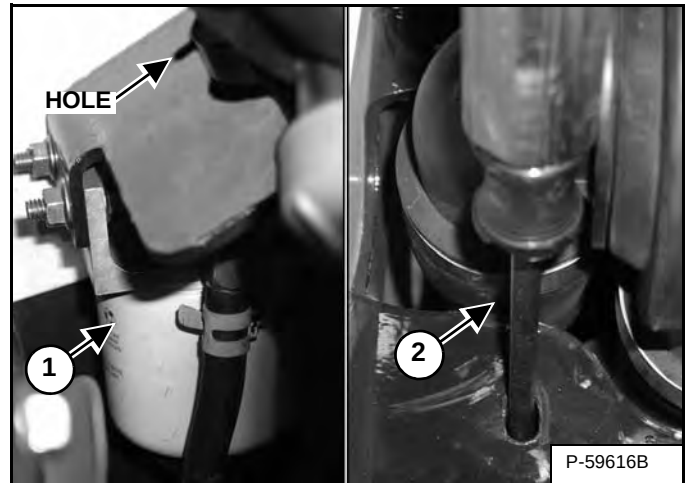
Loosen the thumb nut and open the access cover on the right side of the machine [Figure 87].

Operate the hand pump (priming bulb) (Inset) [Figure 87] until the hand pump feels solid.

Start the engine. It may be necessary to operate the hand pump again to get the engine started.

If the engine still fails to start, you might need to loosen the vent on the top of the fuel filter while cranking the engine.

Figure 88



Open the hood.

The fuel filter (Item 1) [Figure 88] is located under the air cleaner mounting bracket.

Use a screwdriver (Item 2) [Figure 88] through the hole in the bracket to loosen the vent.

Crank the engine until it starts.

Tighten the vent and close the hood.

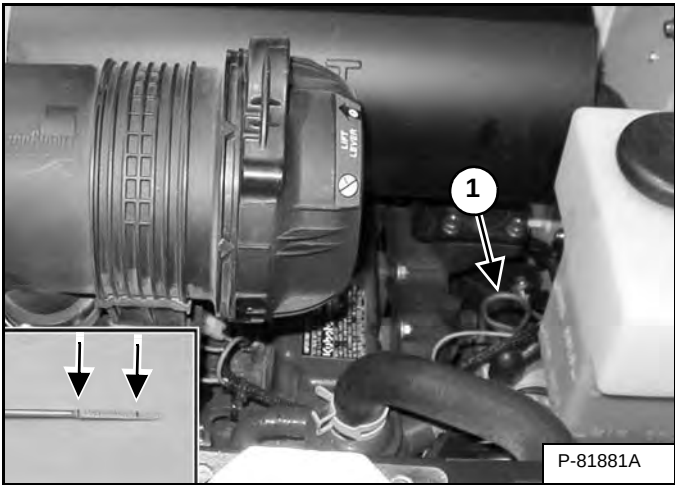
Dealer Copy -- Not for Resale

ENGINE LUBRICATION SYSTEM

Checking And Adding Engine Oil

Check the engine oil level every day before starting the engine for the work shift.

Figure 89



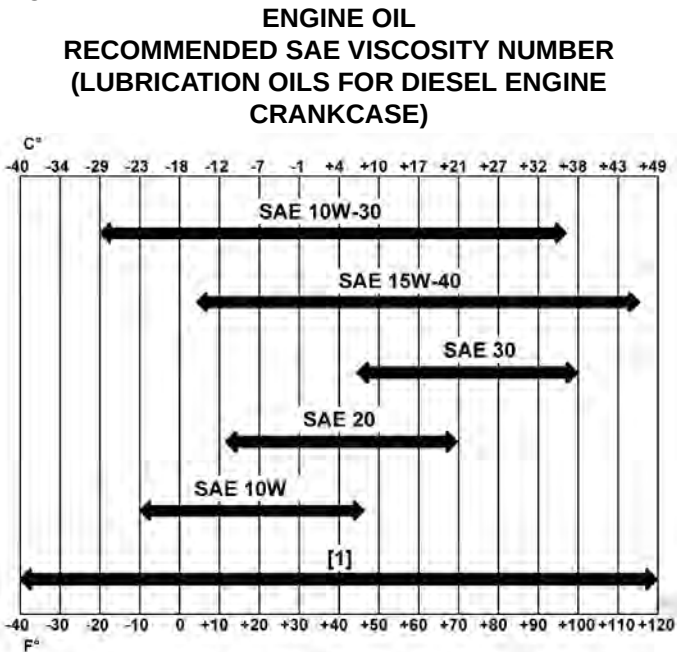
Open the hood and remove the dipstick (Item 1) [Figure 89].

Keep the oil level between the marks on the dipstick [Figure 89].

Install the dipstick and close the hood.

Engine Oil Chart

Figure 90



**TEMPERATURE RANGE ANTICIPATED BEFORE
NEXT OIL CHANGE (DIESEL ENGINES MUST USE API
CLASSIFICATION CI-4 OR BETTER)**

[1] Synthetic Oil - Use recommendation from Synthetic Oil Manufacturer.

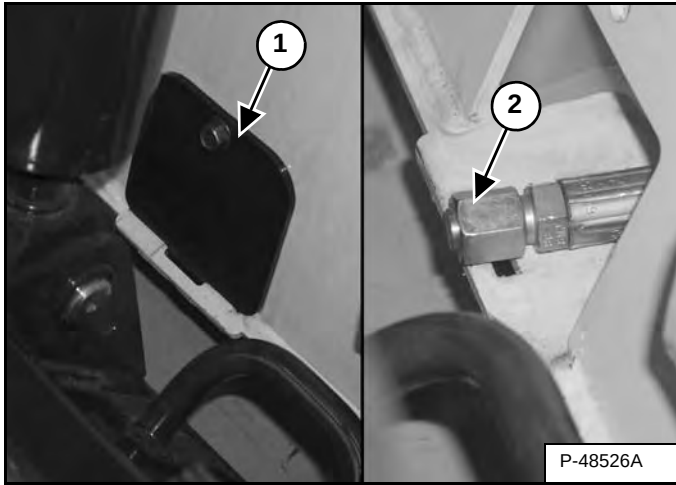
Use good quality engine oil that meets API Service Classification of CI-4 or better [Figure 90].

ENGINE LUBRICATION SYSTEM (CONT'D)

Removing And Replacing Oil And Filter

For the service interval for replacing the engine oil and filter (See SERVICE SCHEDULE on Page 61.)

Figure 91



Remove the access cover (Item 1) **[Figure 91]** and route the oil drain hose to a container at the front of the machine.

Remove the cap from the drain hose (Item 2) **[Figure 91]** and drain the oil. Dispose of the used oil in an environmentally safe manner.

Install cap on the drain hose and push the hose back into the machine.

Install the access cover.

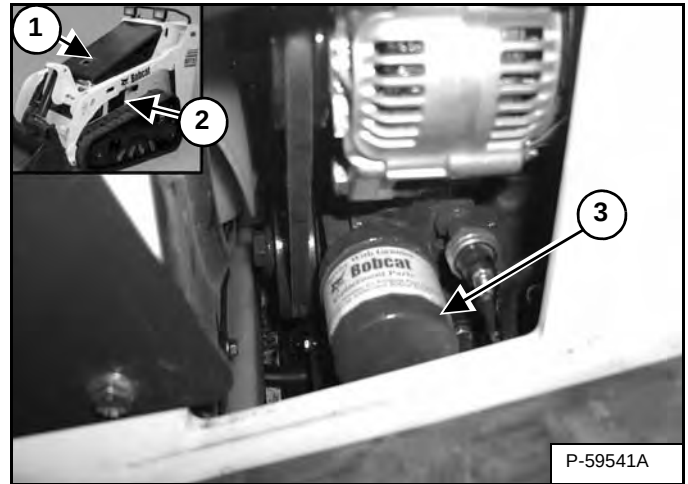
WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

W-2103-0508

Figure 92



Open the hood (Item 1). Loosen the thumb nut and open the access cover (Item 2) **[Figure 92]** on the left side of the machine.

Remove the oil filter (Item 3) **[Figure 92]** (located under the alternator) and clean the filter housing surface.

Put clean oil on the oil filter gasket. Install the filter and hand tighten.

WARNING

AVOID INJURY OR DEATH

Never service or adjust the machine when the engine is running unless instructed to do so in the manual.

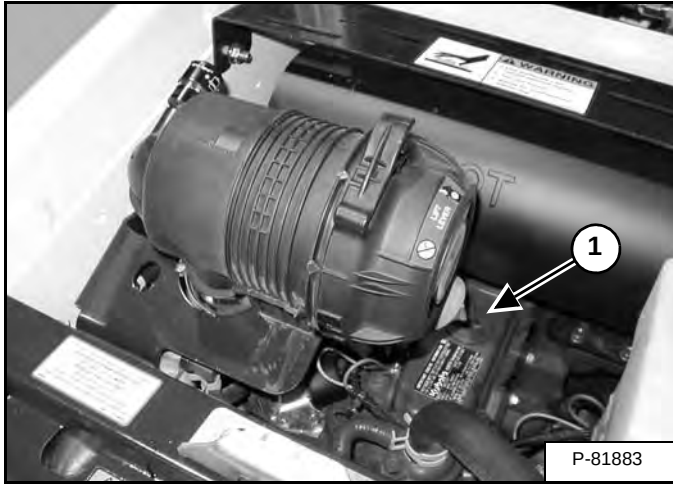
W-2012-0497

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ENGINE LUBRICATION SYSTEM (CONT'D)

Removing And Replacing Oil And Filter (Cont'd)

Figure 93



Remove the fill cap (Item 1) [Figure 93].

Put oil in the engine. (See Capacities on Page 113.) (See Engine Oil Chart on Page 74.)

Install the fill cap.

Start the engine and let it run for several minutes.

Stop the engine and check for leaks at the oil filter.

Remove the dipstick and check the oil level.

Add oil as needed if it is not at the top mark on the dipstick.

Install the dipstick and close the hood.

Close the side access cover.

WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

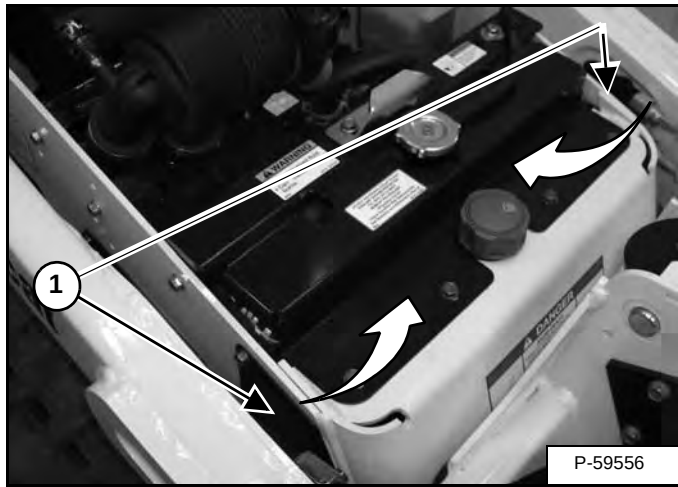
W-2103-0508

ENGINE COOLING SYSTEM

Cleaning

Open the hood [Figure 95].

Figure 94



Remove screen covers (Item 1) [Figure 94] from both sides of the machine.

Use low air pressure or water pressure to clean the radiator through the side screens.

Install screen covers.

Close and latch the hood.

WARNING

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

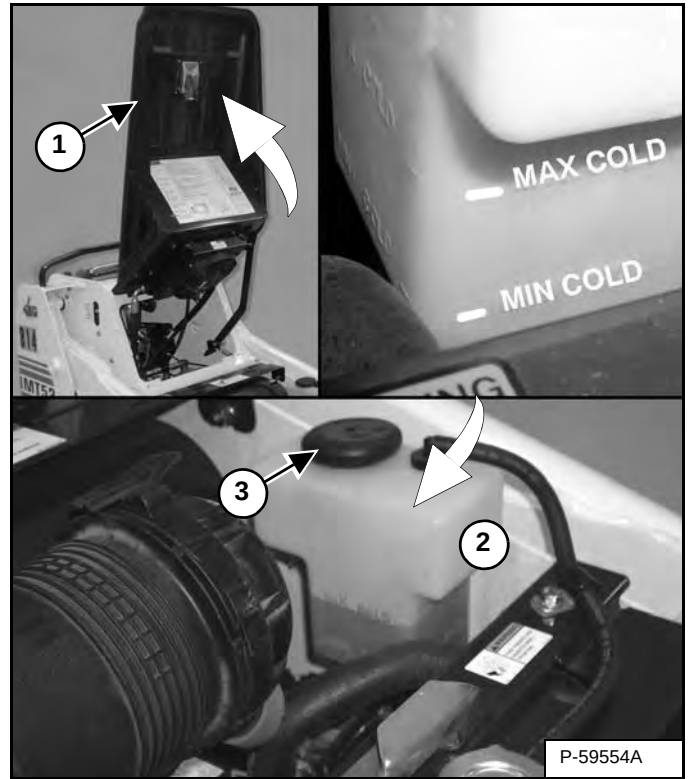
W-2019-0907

Checking Level

Check the cooling system every day to prevent overheating, loss of performance or engine damage.

Make sure the engine is cool.

Figure 95



Raise the hood (Item 1) [Figure 95].

Check coolant level in the recovery tank (Item 2) [Figure 95].

Remove the cap (Item 3) [Figure 95] from the recovery tank.

Add premixed coolant to the recovery tank until it is at the MAX level.

IMPORTANT

AVOID ENGINE DAMAGE

Always use the correct ratio of water to antifreeze.

Too much antifreeze reduces cooling system efficiency and may cause serious premature engine damage.

Too little antifreeze reduces the additives which protect the internal engine components; reduces the boiling point and freeze protection of the system.

Always add a premixed solution. Adding full strength concentrated coolant can cause serious premature engine damage.

I-2124-0497

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ENGINE COOLING SYSTEM (CONT'D)

Removing And Replacing The Coolant

Raise the hood.

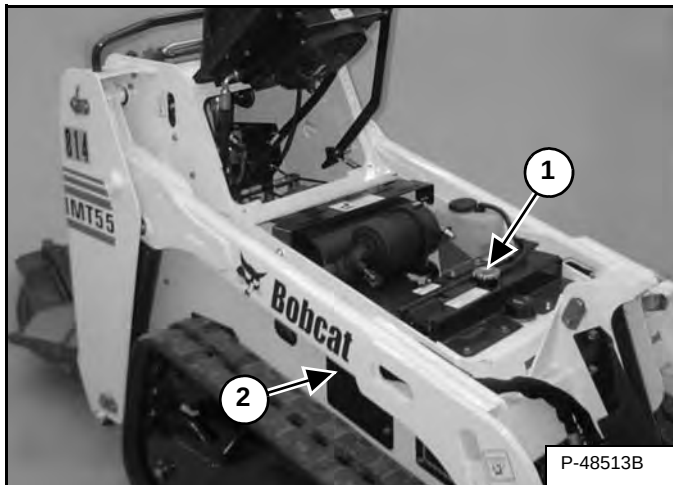
WARNING

AVOID BURNS

Do not remove radiator cap when the engine is hot. You can be seriously burned.

W-2070-1203

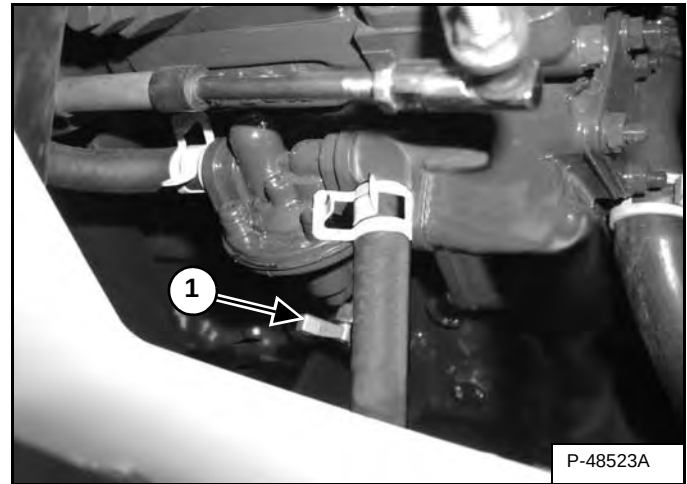
Figure 96



Remove the radiator cap (Item 1) [Figure 96] when the engine is cool.

Loosen the thumb nut and turn the access cover (Item 2) [Figure 96] open.

Figure 97



Connect a hose to the engine block drain valve (Item 1) [Figure 97] on the right side of the engine.

Open the valve and drain the coolant into a container. After the coolant is removed, close the drain valve and remove the hose.

Recycle or dispose of coolant in an environmentally safe manner.

NOTE: The mini track loader is factory filled with propylene glycol coolant (purple color). DO NOT mix propylene glycol with ethylene glycol.

Mix new coolant in a separate container. (See Capacities on Page 113.)

One gallon and one pint (4,3 L) of propylene glycol mixed with one gallon (3,8 L) of water is the correct mixture of coolant (47% water and 53% propylene glycol) to provide a -37°C (-34°F) freeze protection.

Add premixed coolant, to the radiator. Install the radiator cap.

Add premixed coolant to the coolant recovery tank. (See Checking Level on Page 77.) and read **IMPORTANT**.

Use a refractometer to check the condition of propylene glycol in your cooling system.

Run the engine until it is at operating temperature. Stop the engine. Check the coolant level when cool. Add coolant as needed.

Close the hood.

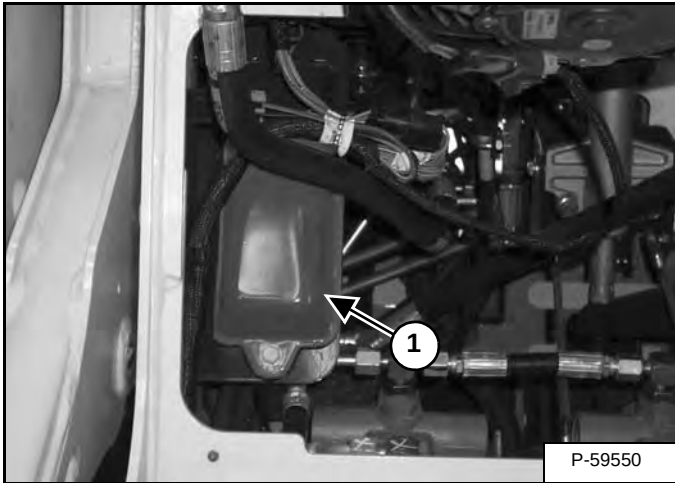
ELECTRICAL SYSTEM

Description

The mini track loader has a 12 volt, negative ground alternator charging system. The electrical system is protected by fuses and relays. The fuses protect the electrical system when there is an electrical overload. The reason for the overload must be found before starting the engine again.

Fuse And Relay Location / Identification

Figure 98

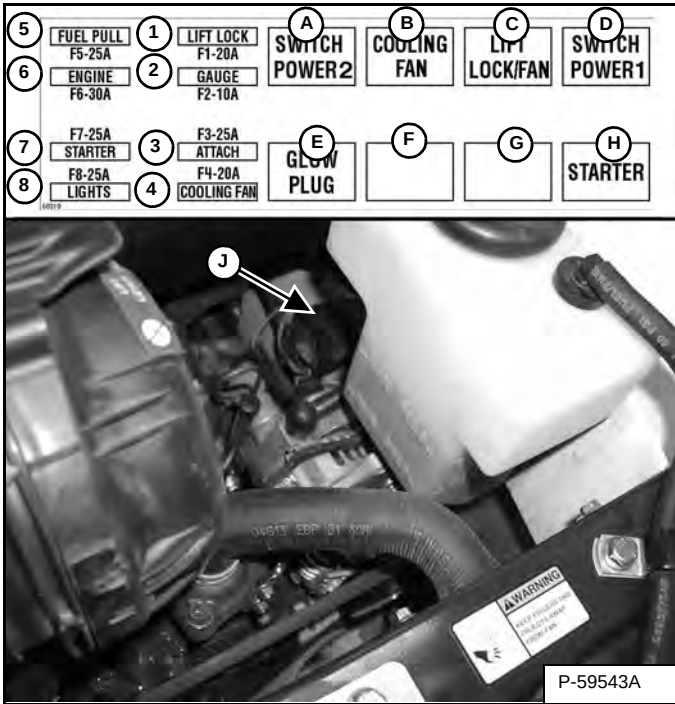


Raise the hood.

The fuse panel is located under the hood at the right rear side of the machine (Item 1) [Figure 98].

Remove the fuse panel cover.

Figure 99



Fuses

[Figure 99]

REF.	DESCRIPTION	AMP
1	Lift Lock / Fan	20
2	Gauges	10
3	Attachment	25
4	Cooling Fan	20
5	Fuel	25
6	Engine	30
7	Starter	25
8	Lights	25

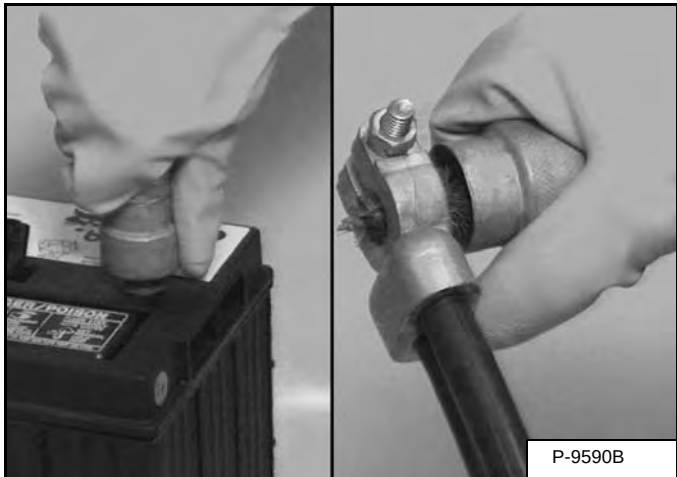
Relays

[Figure 99]

REF.	DESCRIPTION
A	Switched Power 2
B	Cooling Fan
C	Lift Lock
D	Switched Power 1
E	Glow Plug
F	Not Used
G	Not Used
H	Starter
J	Fuel Timer

Battery Maintenance

Figure 100



The battery cables must be clean and tight [Figure 100]. Check the electrolyte level in the battery. Add distilled water as needed. Remove acid or corrosion from the battery and cables with a sodium bicarbonate and water solution.

Put grease on the battery terminals and cable ends to prevent corrosion.

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ELECTRICAL SYSTEM (CONT'D)

Using A Booster Battery (Jump Starting)

! WARNING

AVOID INJURY OR DEATH

Batteries contain acid which burns eyes and skin on contact. Wear goggles, protective clothing and rubber gloves to keep acid off body.

In case of acid contact, wash immediately with water. In case of eye contact get prompt medical attention and wash eye with clean, cool water for at least 15 minutes.

If electrolyte is taken internally drink large quantities of water or milk! DO NOT induce vomiting. Get prompt medical attention.

W-2065-0807

If it is necessary to use a booster battery to start the engine, BE CAREFUL! The key switch must be OFF when connecting jumper cables. The booster battery must be 12 volt.

! WARNING

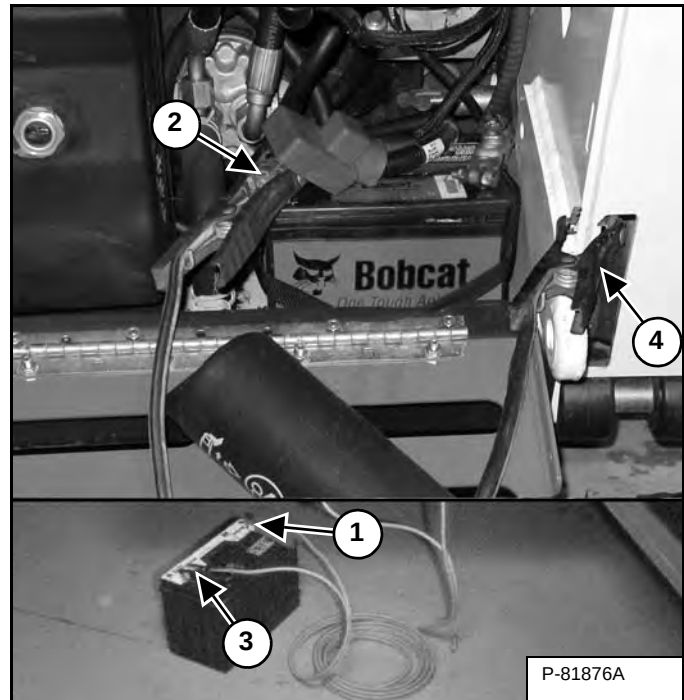
BATTERY GAS CAN EXPLODE AND CAUSE SERIOUS INJURY OR DEATH

Keep arcs, sparks, flames and lighted tobacco away from batteries. When *jumping* from booster battery make final connection (negative) at machine frame.

Do not jump start or charge a frozen or damaged battery. Warm battery to 16°C (60°F) before connecting to a charger. Unplug charger before connecting or disconnecting cables to battery. Never lean over battery while boosting, testing or charging.

W-2066-0910

Figure 101



Connect the end of the first cable (Item 1) [Figure 101] to the positive (+) terminal of the booster battery. Connect the other end of the same cable (Item 2) [Figure 101] to the positive terminal on the mini track loader battery.

Connect the end of the second cable (Item 3) [Figure 101] to the negative (-) terminal of the booster battery. Connect the other end of the same cable (Item 4) [Figure 101] to the mini track loader frame.

Keep cables away from moving parts. Start the engine.

After the engine has started, remove the ground (-) cable (Item 4) [Figure 101] first.

Remove the cable from the positive terminal (Item 2) [Figure 101].

IMPORTANT

Damage to the alternator can occur if:

- Engine is operated with battery cables disconnected.
- Battery cables are connected when using a fast charger or when welding on the loader. (Remove both cables from the battery.)
- Extra battery cables (booster cables) are connected wrong.

I-2023-1285

ELECTRICAL SYSTEM (CONT'D)

Removing And Installing The Battery

WARNING

AVOID INJURY OR DEATH

Batteries contain acid which burns eyes and skin on contact. Wear goggles, protective clothing and rubber gloves to keep acid off body.

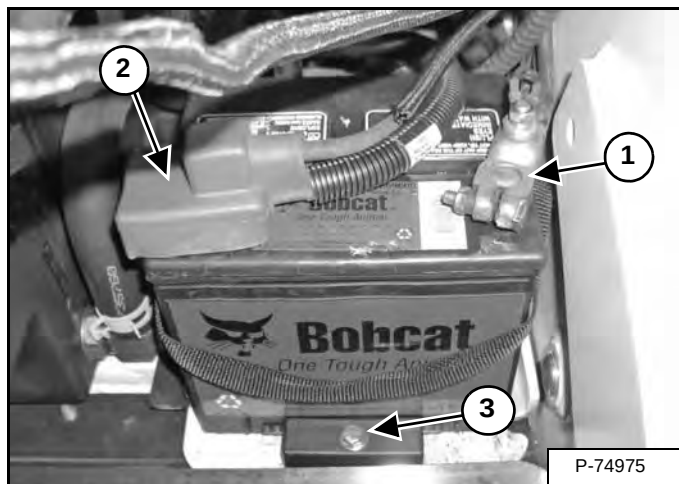
In case of acid contact, wash immediately with water. In case of eye contact get prompt medical attention and wash eye with clean, cool water for at least 15 minutes.

If electrolyte is taken internally drink large quantities of water or milk! DO NOT induce vomiting. Get prompt medical attention.

W-2065-0807

Open the rear door.

Figure 102



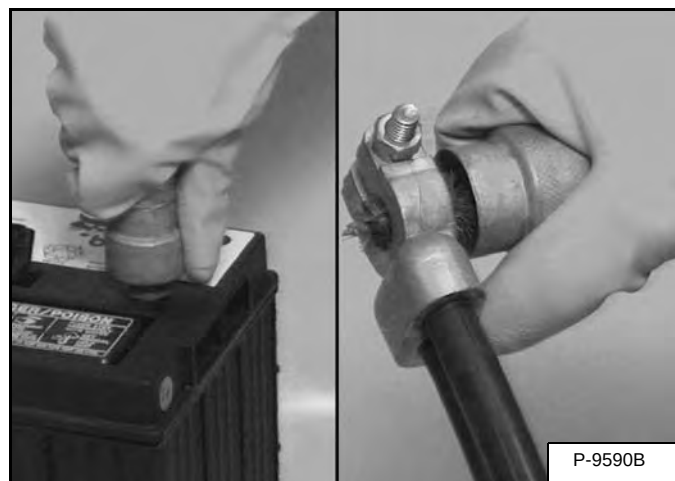
Disconnect the negative (-) battery cable (Item 1) [Figure 102].

Disconnect the positive (+) battery cable (Item 2) [Figure 102].

Remove the battery hold-down clamp (Item 3) [Figure 102].

Remove the battery from the mini track loader.

Figure 103



Always clean the battery terminals and cable ends when installing a new or used battery [Figure 103].

When installing the battery in the mini track loader, do not touch any metal parts with the battery terminals.

Connect the negative (-) cable last to prevent sparks. Connect and tighten the battery cables.

Close the rear door before operating the mini track loader.

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HYDRAULIC / HYDROSTATIC SYSTEM

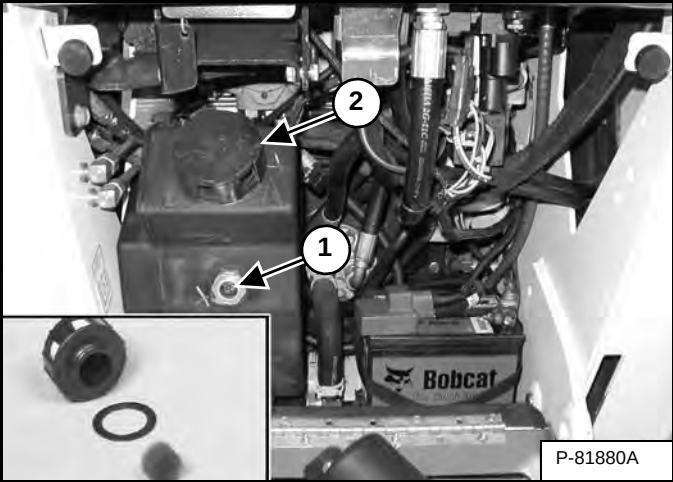
Checking And Adding Fluid

Use only recommended fluid in the hydraulic system. (See (MT55) MINI TRACK LOADER SPECIFICATIONS on Page 111.)

Stop the mini track loader on a level surface. Lower the lift arms and tilt the Bob-Tach fully back.

Stop the engine and open the rear door.

Figure 104



Check the fluid level in the sight gauge (Item 1) [Figure 104]. The correct level is at the center of the sight gauge.

Remove the fill cap (Item 2) [Figure 104] and add fluid until at the correct level.

Install the fill cap. Be sure rubber gasket is installed (Inset) [Figure 104].

**WARNING**

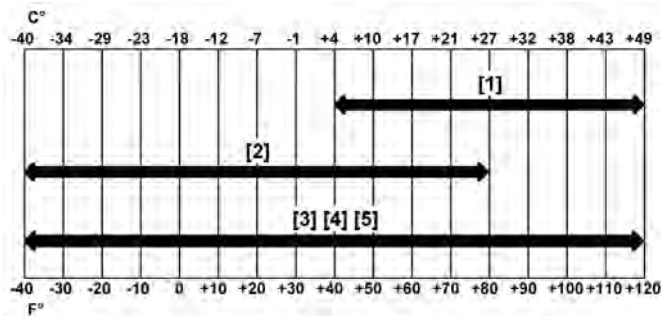
AVOID INJURY OR DEATH

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

W-2072-0807

Hydraulic / Hydrostatic Fluid Chart

Figure 105
HYDRAULIC / HYDROSTATIC FLUID
RECOMMENDED ISO VISCOSITY GRADE (VG)
AND VISCOSITY INDEX (VI)



TEMPERATURE RANGE ANTICIPATED
DURING MACHINE USE

- [1] VG 100; Minimum VI 130
- [2] VG 46; Minimum VI 150
- [3] BOBCAT All-Season Fluid
- [4] BOBCAT Synthetic Fluid
- [5] BOBCAT Biodegradable Hydraulic / Hydrostatic Fluid (Unlike biodegradable fluids that are vegetable based, Bobcat biodegradable fluid is formulated to prevent oxidation and thermal breakdown at operating temperatures.)

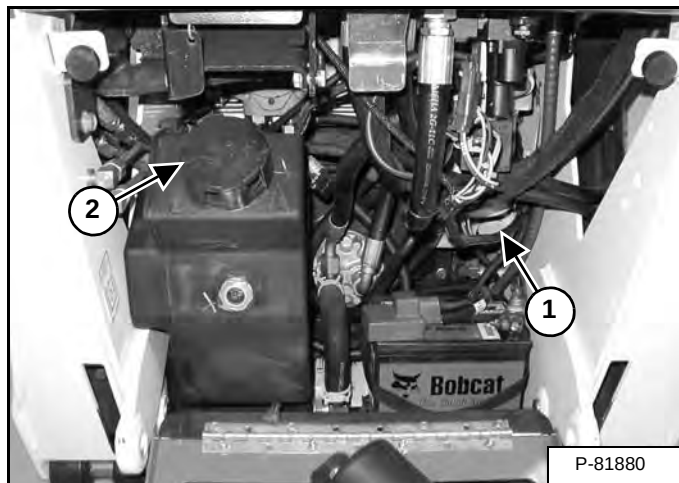
Use only recommended fluid in the hydraulic system [Figure 105]. (See Hydraulic System on Page 113.)

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HYDRAULIC / HYDROSTATIC SYSTEM (CONT'D)

Removing And Replacing Hydraulic / Hydrostatic Filter

Figure 106



For the correct service intervals (See SERVICE SCHEDULE on Page 61.)

Open the rear door.

Remove the filter (Item 1) [Figure 106].

Clean the surface of the filter housing where the seal contacts the housing.

Put clean oil on the seal of the new filter.

Install and hand tighten the filter.

Close the rear door.

Removing And Replacing Hydraulic Fluid

For the service interval (See SERVICE SCHEDULE on Page 61.)

The fluid must be replaced if it becomes contaminated or after major repairs. If the fluid is replaced, the hydraulic filter must be replaced.

Remove the reservoir fill cap (Item 2) [Figure 106]. Put a suction hose into the fill tube to remove the hydraulic fluid.

Replace the hydraulic filter (Item 1) [Figure 106].

Add the correct fluid to the reservoir until the fluid level is at the correct level (Do not overfill). Install fill cap.

Start the engine and operate the hydraulic controls. Stop the engine and check for leaks.

Check the fluid level in the reservoir and add as needed.

WARNING

Hydraulic fluid escaping under pressure can have sufficient force to enter a person's body by penetrating the skin. This can cause serious injury and possible death if proper medical treatment by a physician familiar with this injury is not received immediately.

W-2145-0290

WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

W-2103-0508

Hydraulic Reservoir Breather

The reservoir fill cap (Item 2) [Figure 106] is also the hydraulic breather. Replace the breather cap according to the interval given. (See SERVICE SCHEDULE on Page 61.)

SPARK ARRESTOR MUFFLER

Cleaning Procedure

For service interval for cleaning the spark arrestor muffler (See SERVICE SCHEDULE on Page 61.)

Do not operate mini track loader with a defective exhaust system.

! WARNING

Stop engine and allow the muffler to cool before cleaning the spark chamber. Wear safety goggles. Failure to obey can cause serious injury.

W-2011-1285

! WARNING

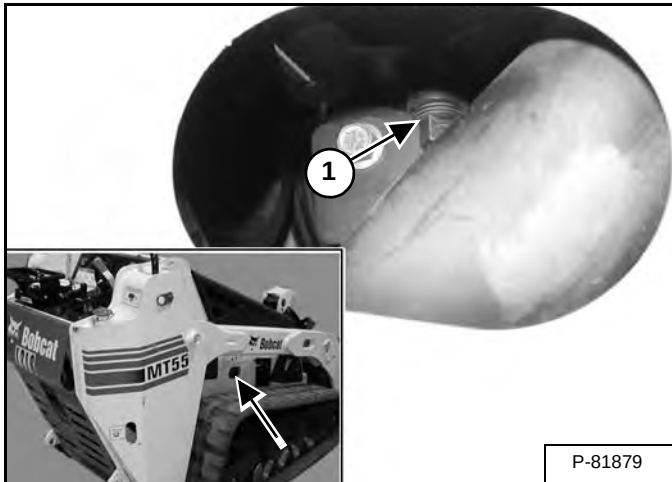
AVOID INJURY OR DEATH

When an engine is running in an enclosed area, fresh air must be added to avoid concentration of exhaust fumes. If the engine is stationary, vent the exhaust outside. Exhaust fumes contain odorless, invisible gases which can kill without warning.

W-2050-0807

Stop the engine and open the hood.

Figure 107



Remove the plug from the bottom of the muffler (Item 1) [Figure 107].

! WARNING

Never use machine in atmosphere with explosive dust or gases or where exhaust can contact flammable material. Failure to obey warnings can cause injury or death.

W-2068-1285

Start the engine.

Wear safety goggles. Hold a block of wood over the outlet of the muffler (with the engine running) for about 10 seconds.

This will force contaminants out through the clean-cut hole.

Stop the engine and install the plug. Close the hood.

! WARNING

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

W-2484-1003

IMPORTANT

This machine is factory equipped with a U.S.D.A. Forestry Service approved spark arrester exhaust system.

The spark arrestor muffler, if equipped, must be cleaned to keep it in working condition. The spark arrestor muffler must be serviced by dumping the spark chamber every 100 hours of operation.

On some models, the turbocharger functions as the spark arrestor and must operate correctly for proper spark arrestor function.

If this machine is operated on flammable forest, brush, or grass covered land, it must be equipped with a spark arrestor attached to the exhaust system and maintained in working order. Failure to do so will be in violation of California State Law, Section 4442. PRC. Refer to local laws and regulations for spark arrestor requirements.

I-2284-0111

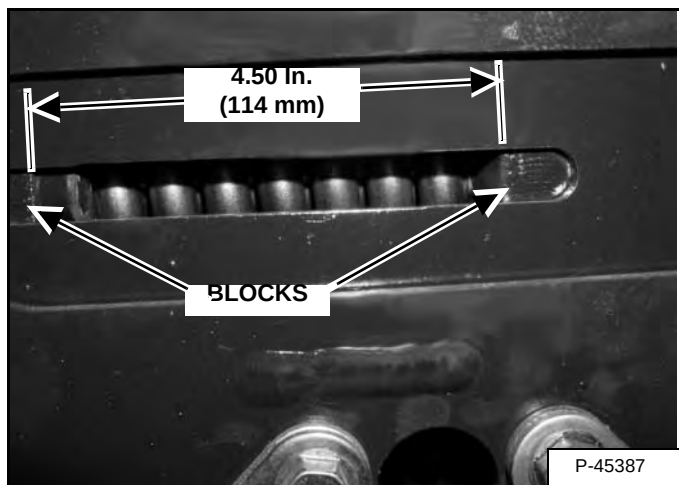
TRACK TENSION

Adjustment

Track tension is important for good performance and to prevent the tracks from coming off.

NOTE: The wear of track rollers vary with the working conditions and different types of soil conditions.

Figure 108

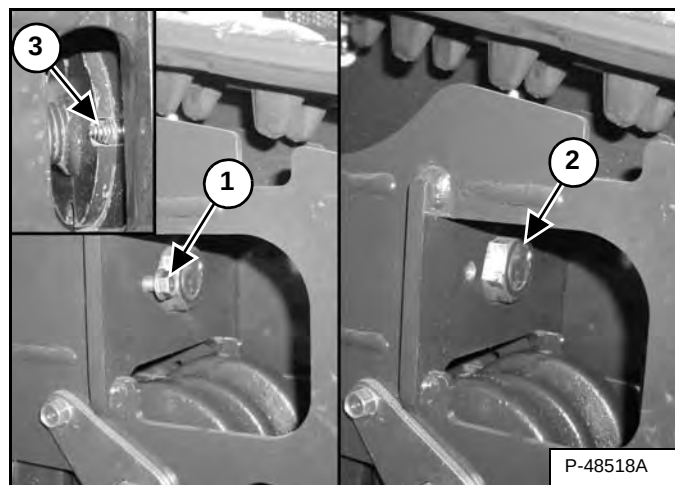


The tracks are adjusted correctly when the measurement between the blocks is 114 mm (4.50 in) [Figure 108].

Park the mini track loader on a level surface and engage the parking brake.

Raise one side of the machine so that the track is about 50 mm (2 in) off the ground. Lower the machine to jackstands. Be sure the jackstands do not touch the tracks.

Figure 109



Remove the locking bolt (Item 1) [Figure 109].

Turn the adjustment bolt (Item 2) [Figure 109] counterclockwise to tighten the track. (Decrease the distance between the blocks [Figure 108].) Turn clockwise to loosen the track. (Increase the distance between the blocks [Figure 108].)

Turn until the correct measurement is obtained [Figure 108] and the nearest notch (Item 3) [Figure 109] is aligned with the hole for the locking bolt. Install the locking bolt (Item 1) [Figure 109] and tighten.

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ALTERNATOR BELT

Belt Adjustment

IMPORTANT

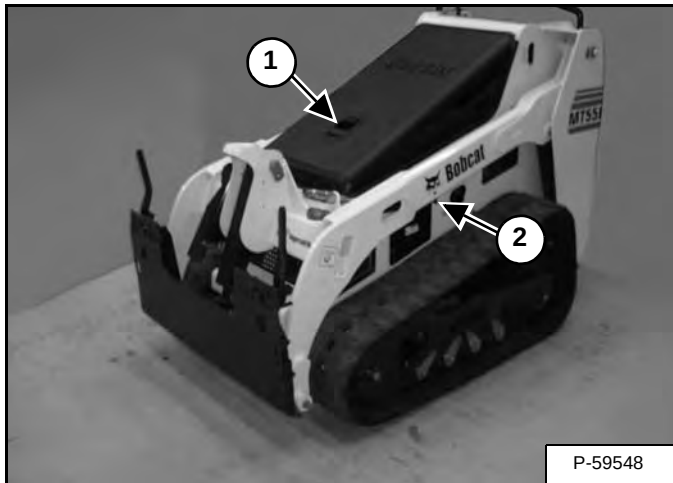
Damage to the alternator can occur if:

- Engine is operated with battery cables disconnected.
- Battery cables are connected when using a fast charger or when welding on the loader. (Remove both cables from the battery.)
- Extra battery cables (booster cables) are connected wrong.

I-2023-1285

Stop the engine.

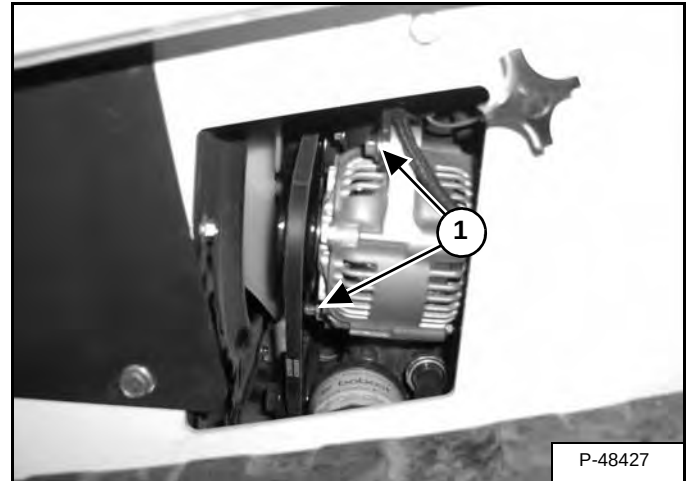
Figure 110



Open the hood (Item 1) [Figure 110].

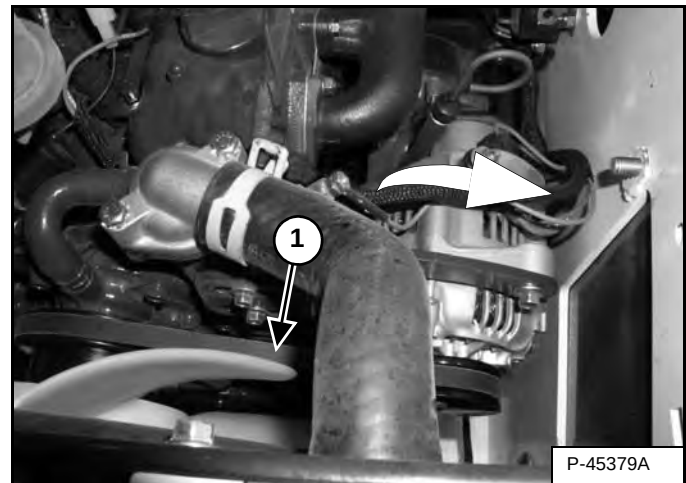
Loosen the thumb nut (Item 2) [Figure 110] and open the access cover on the left side of the machine.

Figure 111



Loosen the adjustment and mounting bolts for the alternator (Item 1) [Figure 111].

Figure 112



Move the alternator away from the engine [Figure 112] to increase belt tension.

Move the alternator until the belt has 8,0 mm (5/16 in) movement at the middle of the belt span (Item 1) [Figure 112] with 66 N (15 lb) of force.

Tighten the adjustment and mounting bolts (Item 1) [Figure 111].

Belt Replacement

Loosen the adjustment and mounting bolts for the alternator (Item 1) [Figure 111] and loosen the belt fully.

Remove the belt and install a new belt.

Adjust belt as shown above.

DRIVE BELT

Description

The drive belt makes the mechanical connection from the engine flywheel to the hydrostatic pump pulleys.

The belt is a cord-reinforced rubber design.

Constant tension is applied to the belt by the use of a spring-loaded belt tensioner.

Adjusting

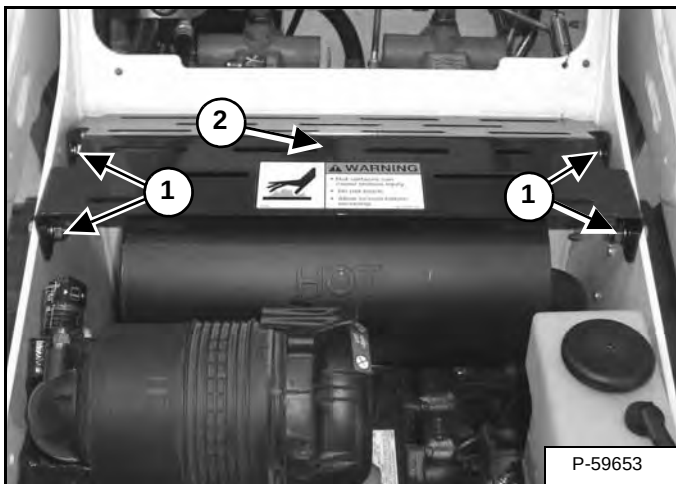
To adjust the drive belt tension, use the following procedure:

Raise the lift arms and install the lift arm support device. (See LIFT ARM SUPPORT DEVICE on Page 67.)

Stop the engine and raise the hood.

Disconnect the negative (-) battery cable. (See Removing And Installing The Battery on Page 81.)

Figure 113

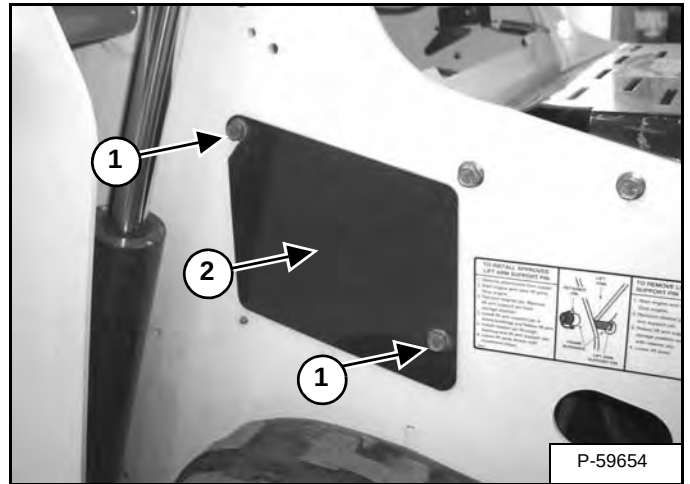


Loosen the four belt shield fasteners (Item 1) [Figure 113].

Remove the belt shield (Item 2) [Figure 113].

Installation: Ensure the belt shield is not resting on the drive belt or the drive belt pulleys.

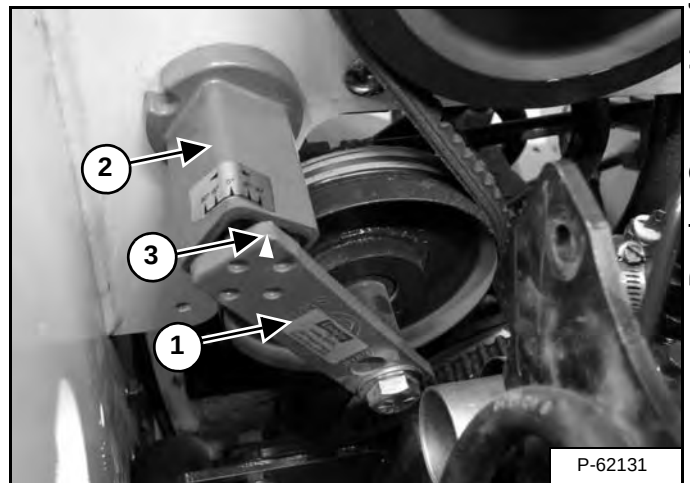
Figure 114



Loosen screws (Item 1) fastening side access cover (Item 2) [Figure 114] to the loader.

Swing open side access cover.

Figure 115



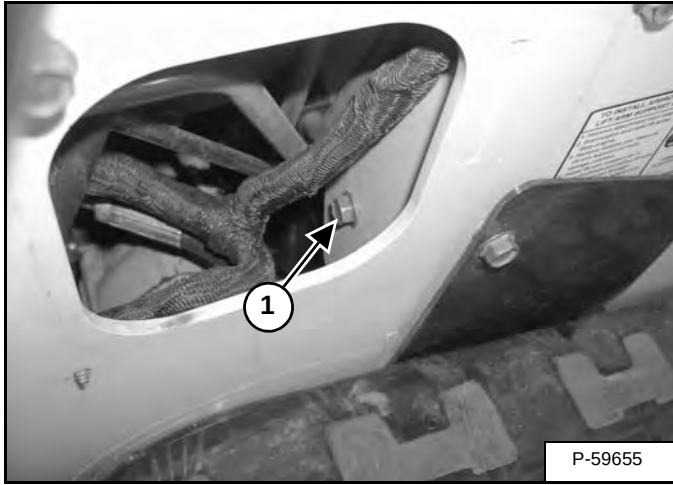
The pulley tensioner (Item 1) [Figure 115] is located just under the right hydrostatic pump pulley.

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DRIVE BELT (CONT'D)

Adjusting (Cont'd)

Figure 116



Loosen idler mounting bolt (Item 1) [Figure 116] located on the back side of tensioner.

While facing the idler pulley, place a wrench on the square base portion (Item 2) [Figure 115] of the idler pulley

Rotate wrench until the pointer (Item 3) [Figure 115] reaches 25°.

While holding the pointer (Item 3) [Figure 115] at the proper position (25°), tighten the idler mounting bolt (Item 1) [Figure 116] to 34 - 38 N•m (25 - 28 ft-lb) torque.

NOTE: The pointer (Item 3) [Figure 115] will be set at 25° when under tension.

Install the belt shield and tighten the four fasteners.

Close the side access cover and tighten screws.

Reconnect the negative (-) battery cable. (See Removing And Installing The Battery on Page 81.)

Run the engine and recheck the pointer position.

Readjust if necessary.

Remove the lift arm support device. (See LIFT ARM SUPPORT DEVICE on Page 67.)

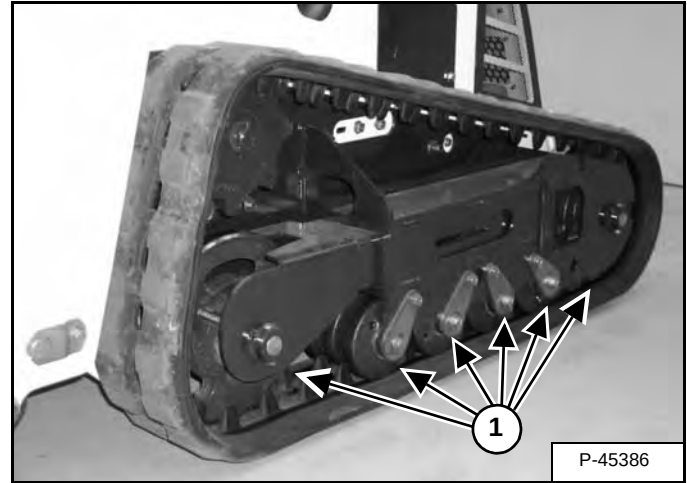
TRACK ROLLER AND IDLER LUBRICATION

Procedure

The track rollers and idlers have grease fittings for lubrication.

For the correct interval (See SERVICE SCHEDULE on Page 61.)

Figure 117



Add grease to the rollers and idlers (Item1) [Figure 117] (each side of mini track loader). (Use only one fitting on each roller.)

LUBRICATING THE MINI TRACK LOADER

Lubrication Locations

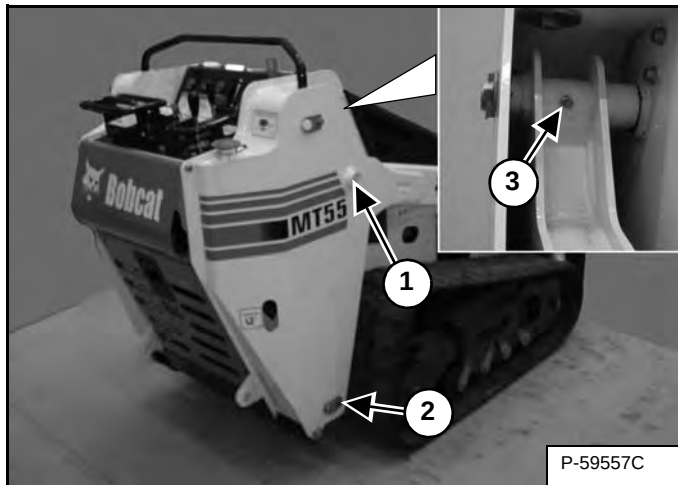
Lubricate the mini track loader as specified for the best performance of the mini track loader. (See SERVICE SCHEDULE on Page 61.)

Record the operating hours each time you lubricate the Bobcat mini track loader.

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

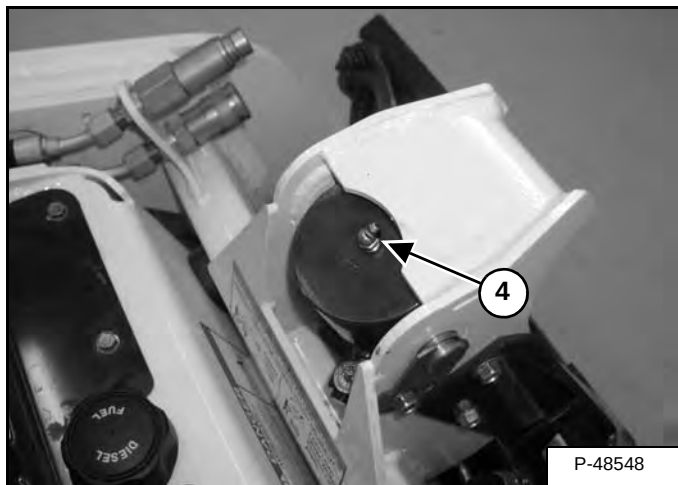
Lubricate the following locations:

Figure 118



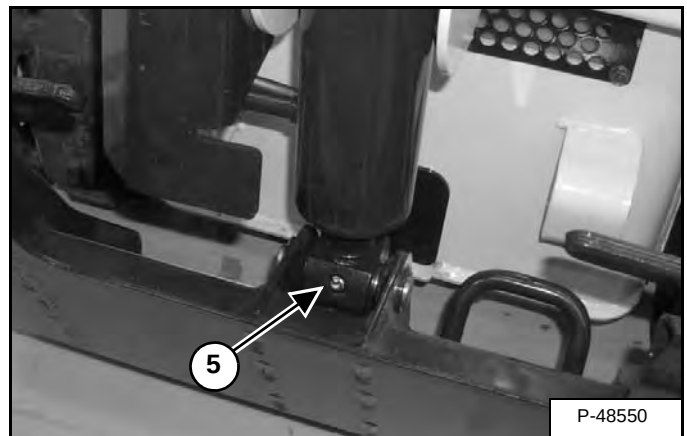
1. Lift Cylinder Rod End (Both Sides) [Figure 118].
2. Lift Cylinder Base End (Both Sides) [Figure 118].
3. Lift Arm Pivot (Both Sides) [Figure 118].

Figure 119



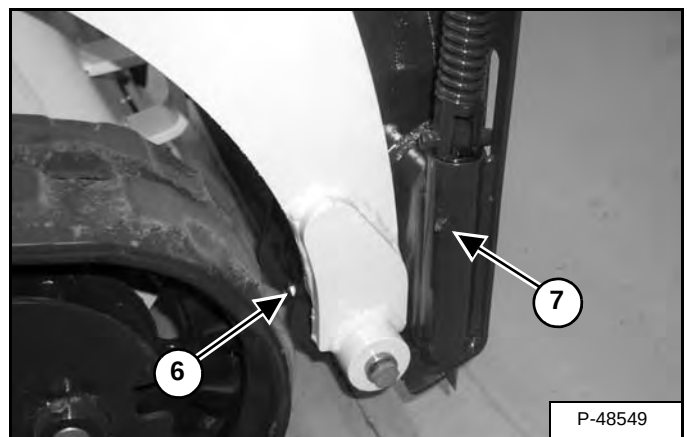
4. Tilt Cylinder Base End [Figure 119].

Figure 120



5. Tilt Cylinder Rod End [Figure 120].

Figure 121



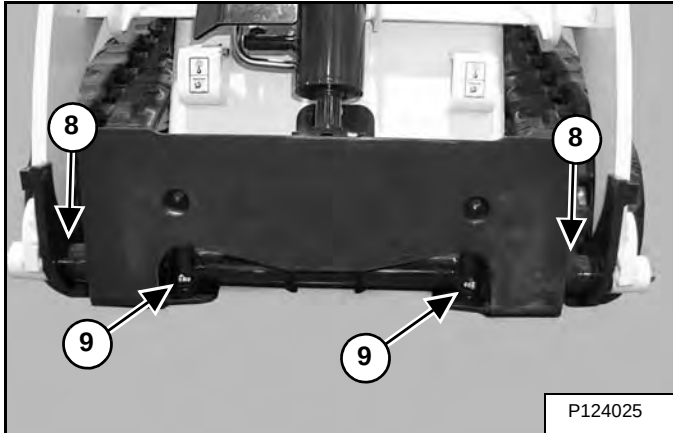
6. Bob-Tach Pivot Pin (Both Sides) (If Equipped) [Figure 121].
7. Bob-Tach Wedge (Both Sides) (If Equipped) [Figure 121].

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LUBRICATING THE MINI TRACK LOADER (CONT'D)

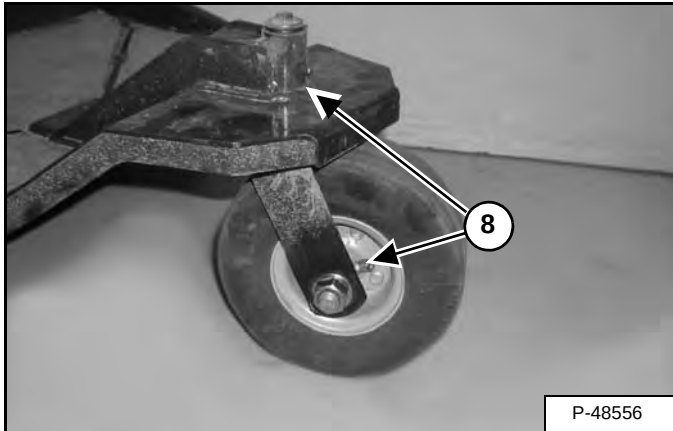
Lubrication Locations (Cont'd)

Figure 122



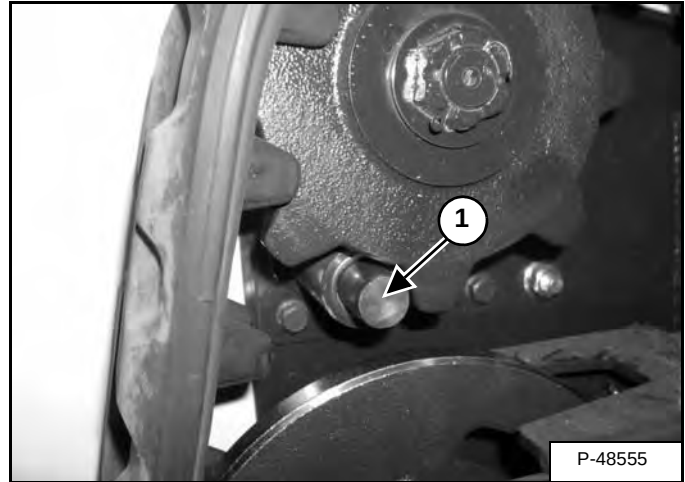
- 8. Common Industry Interface Pivot Pin (Both Sides) [Figure 122] (If equipped).
- 9. Common Industry Interface Locking Pin (Both Sides) [Figure 122] (If equipped).

Figure 123



- 10. **Early Models Only:** Ride-On Operator Platform Wheel and pivot [Figure 123] (If Equipped). (Later models use sealed bearings, no service required.)

Figure 124



Lubricate the parking brake pin (Item 1) [Figure 124] with anti-seize compound only.

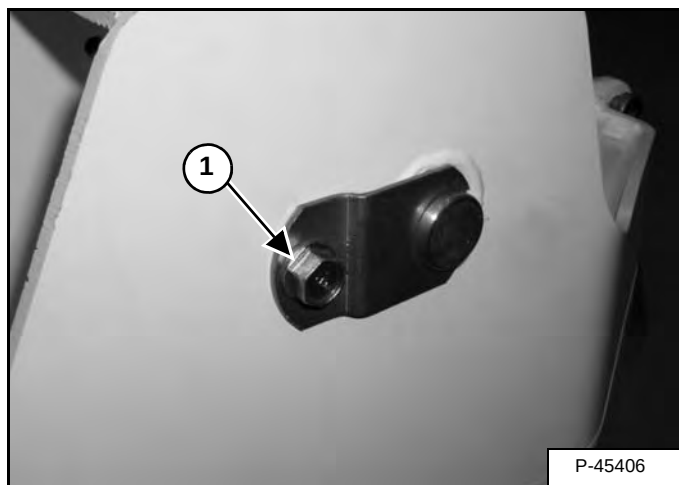
Move the parking brake lever back and forth to spread the lubricant over the entire pin area.

Repeat the lubrication for the parking brake pin on the other side.

PIVOT PINS

Inspection And Maintenance

Figure 125



All lift arm and cylinder pivots have a large pin held in position with a retainer and bolt (Item 1) **[Figure 125]**.

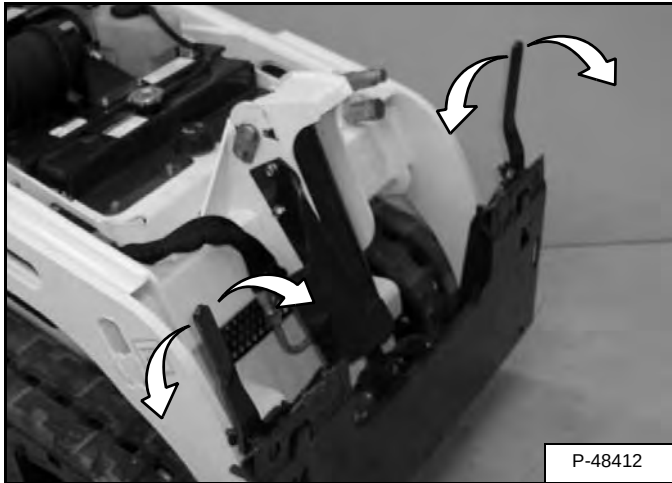
Check that the bolts are tightened to 24 - 27 N•m (18 - 20 ft-lb) torque.

! WARNING

Bob-Tach wedges must extend through the holes in attachment. Lever(s) must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

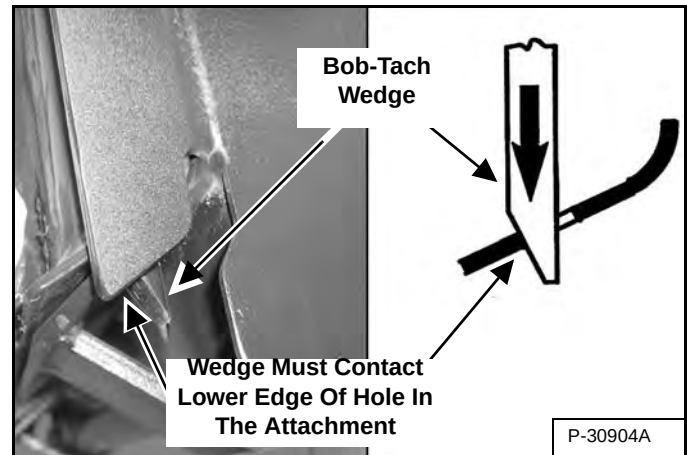
W-2102-0497

Figure 126



Move the Bob-Tach levers to engage and disengage the wedges [Figure 126]. The levers and wedges must move freely.

Figure 127

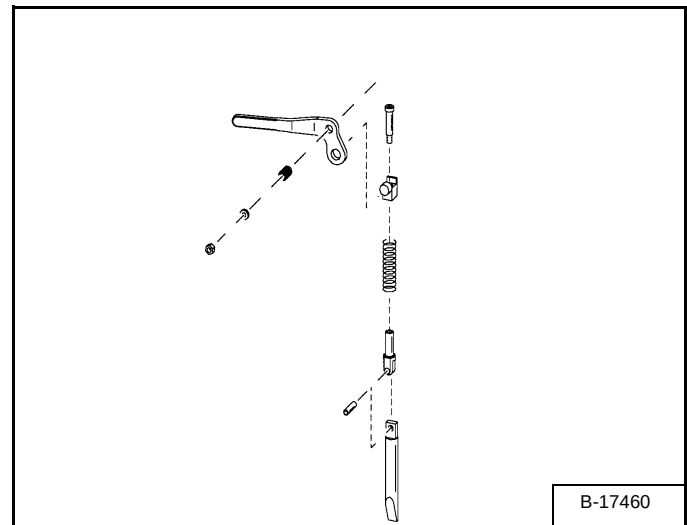


The wedges must extend through the holes in the attachment mounting frame [Figure 127].

The spring loaded wedge must contact the lower edge of the hole in the attachment [Figure 127].

If the wedge does not contact the lower edge of the hole [Figure 127], the attachment will be loose and can come off the Bob-Tach.

Figure 128



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [Figure 128]. Replace any parts that are damaged, bent, or missing. Keep all fasteners tight.

Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See SERVICE SCHEDULE on Page 61.) (See LUBRICATING THE MINI TRACK LOADER on Page 89.)

COMMON INDUSTRY INTERFACE

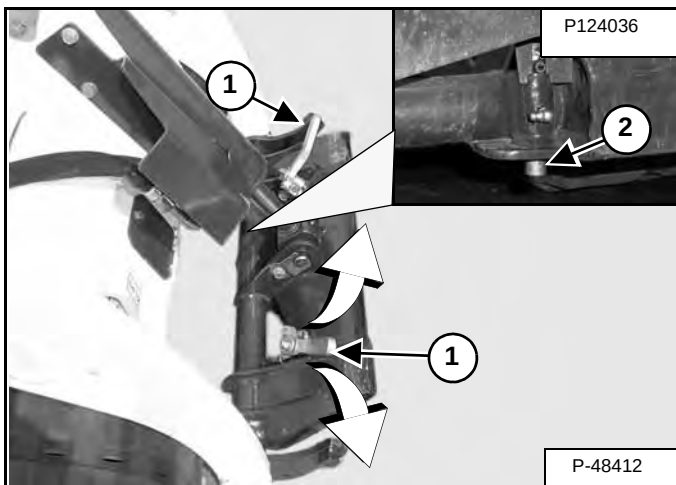
Inspection And Maintenance

! WARNING

The Common Industry Interface locking pins must extend through the holes in attachment frame. Levers must be fully down and locked. Failure to secure the locking pins can allow attachment to come off and cause serious injury or death.

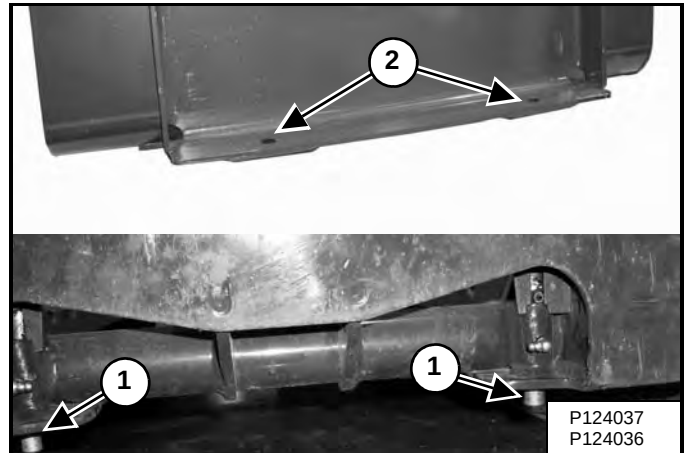
W-2996-1015

Figure 129



Move the Common Industry Interface (CII) levers (Item 1) to engage and disengage the locking pins (Item 2) [Figure 129]. The levers and pins must move freely.

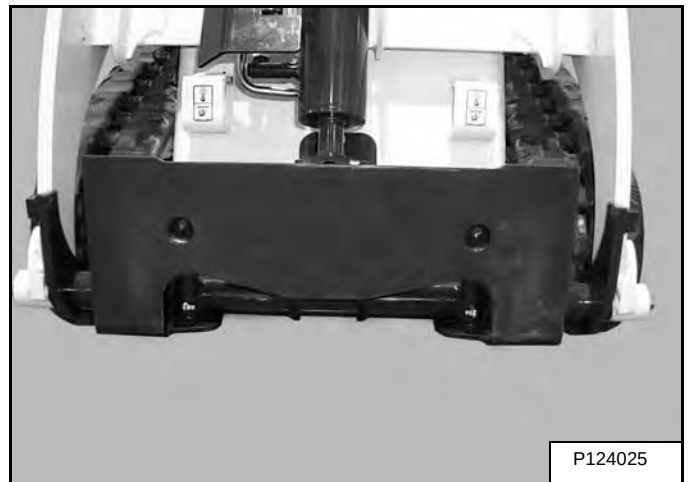
Figure 130



The pins (Item 1) must extend through the holes in the attachment mounting frame (Item 2) [Figure 130].

If the pin does not fully engage the attachment mounting frame hole [Figure 130], the attachment will be loose and can come off the interface.

Figure 131



Inspect the mounting frame on the attachment and the Common Industry Interface, linkages, springs, and pins for excessive wear or damage [Figure 131]. Replace any parts that are damaged, bent, or missing. Keep all fasteners tight.

Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the pins. (See SERVICE SCHEDULE on Page 61.) (See LUBRICATING THE MINI TRACK LOADER on Page 89.)

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MINI TRACK LOADER STORAGE AND RETURN TO SERVICE

Storage

Sometimes it may be necessary to store your Bobcat Mini Track Loader for an extend period of time. Below is a list of items to perform before storage.

- Thoroughly clean the mini track loader including the engine compartment.
- Lubricate the mini track loader.
- Replace worn or damaged parts.
- Drive the mini track loader onto planks in a dry protected shelter.
- Lower the lift arms fully with the bucket flat on the ground.
- Put grease on any exposed cylinder rods.
- Put fuel stabilizer in the fuel tank and run the engine a few minutes to circulate the stabilizer to the pump and fuel injectors.
- Drain and flush the cooling system. Refill with premixed coolant.
- Replace all fluids and filters (engine, hydraulic).
- Replace all filters (i.e.: air cleaner, oil, etc.).
- Put all controls in NEUTRAL position.
- Remove the battery. Be sure the electrolyte level is correct then charge the battery. Store it in a cool dry place above freezing temperatures and charge it periodically during storage.
- Cover the exhaust pipe opening.
- Tag the machine to indicate that it is in storage condition.

Return To Service

After the Bobcat Mini Track Loader has been in storage, it is necessary to follow a list of items to return the mini track loader to service.

- Check the engine and hydraulic oil levels; check coolant level.
- Install a fully charged battery.
- Remove grease from exposed cylinder rods.
- Check all belt tensions.
- Be sure all shields and guards are in place.
- Lubricate the mini track loader.
- Remove cover from the exhaust pipe opening.
- Start the engine and let run for a few minutes while observing the instrument panels and systems for correct operation.
- Drive the mini track loader off of the planks.
- Operate machine, check for correct function.
- Stop the engine and check for leaks. Repair as needed.

MACHINE SIGN TRANSLATIONS

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Bobcat®

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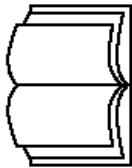
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MT55 Operation & Maintenance Manual

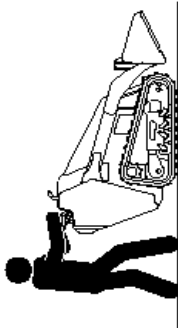
Warning (6737039)

⚠ WARNING

AVOID INJURY OR DEATH



Never use the loader without instructions.
Read Operation & Maintenance manual.
Never modify or use unapproved attachments.



Operate only from operator's position.
NO RIDERS.
Keep bystanders away.



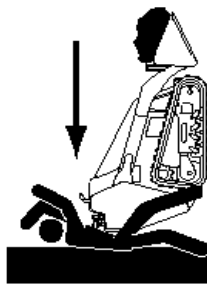
Check swing area before turning.
Keep feet on platform while operating (if equipped).



Check for utility lines before digging.

⚠ WARNING

AVOID INJURY OR DEATH



When backing up, look behind in the direction of travel.

56538



Carry Load Low.
Do not exceed rated operating capacity.



Move controls smoothly.
Do not jerk controls.

TO LEAVE LOADER:

- | | |
|---|--|
| 1 | Lower lift arms and attachment flat on the ground. |
| 2 | Disengage auxiliary hydraulic system. |
| 3 | Engage parking brake. |
| 4 | Stop engine. |

SW 03 6737039



ADVERTENCIA

EVITE LESIONES O ACCIDENTES FATALES



Jamás utilice el cargador sin leer las instrucciones.
Lea el Manual de Operación y Mantenimiento.
Jamás modifique o use implementos no aprobados.



Accione solamente desde la posición del operador.
NO TRANSPORTE PERSONAS.
Mantenga a los espectadores alejados.



Revise el área para giro antes de voltear.
Mantenga los pies en la plataforma mientras opera (si viene equipada).



Revise la presencia de líneas de servicios públicos antes de excavar.



ADVERTENCIA

EVITE LESIONES O ACCIDENTES FATALES



Cuando retroceda, mire hacia atrás en dirección de donde viaja.



Transporte la carga abajo.
No exceda la capacidad de operación nominal (ROC).



Mueva los controles suavemente.
No mueva los controles con brusquedad.

ANTES DE ABANDONAR EL CARGADOR:

1	Baje los brazos e implemento de cara al suelo.
2	Desactive el sistema hidráulico auxiliar.
3	Coloque el freno de estacionamiento.
4	Detenga el motor.

SW 04 6737039 AR

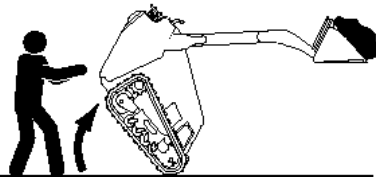
103 of 122

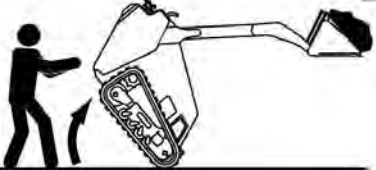
101

MT55 Operation & Maintenance Manual

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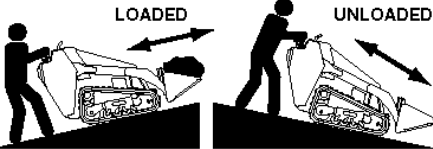
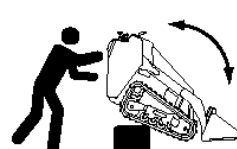
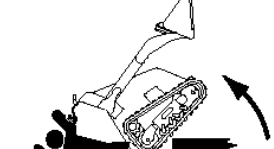
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 WARNING	
TIPPING, LOSS OF LOAD, LOADS FALLING OR LOSS OF VISIBILITY CAN CAUSE SERIOUS INJURY OR DEATH	
 CARRY LOAD LOW 58538	 KEEP LOAD LEVEL WHEN RAISING LIFT ARMS SW 03 6737040

 ADVERTENCIA	
LADEO, PÉRDIDA DE CARGA Y VISIBILIDAD, O CARGAS QUE CAEN PUEDEN CAUSAR LESIONES O ACCIDENTES FATALES.	
 TRANSPORTE LA CARGA ABAJO. 58538	 MANTENGA LA CARGA NIVELADA CUANDO ELEVE LOS BRAZOS. SW 04 6737040 AR

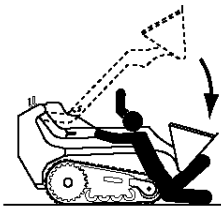
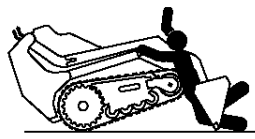
 AVERTISSEMENT	
LE RENVERSEMENT, LA PERTE DE CHARGE, LA CHUTE DE CHARGE OU LA PERTE DE VISIBILITE PEUVENT PROVOQUER DES BLESSURES GRAVES, VOIRE MORTELLES	
 TRANSPORTEZ LA CHARGE LE PLUS BAS POSSIBLE 58538	 MAINTENEZ LA CHARGE DE NIVEAU LORSQUE VOUS RELEVEZ LES BRAS DE LEVAGE G7-6737040-FR

Warning (6737041)

⚠ WARNING AVOID INJURY OR DEATH 58538	LOADED UNLOADED  Keep heavy end uphill. Travel up and down slopes not across them.	 Never drive over obstructions.	 Never back over obstructions, drop offs, or uneven ground with lift arms raised. SW 03 6737041
⚠ ADVERTENCIA EVITE LESIONES O ACCIDENTES FATALES 58538	CON CARGA SIN CARGA  Mantenga el extremo pesado cuesta arriba. Viaje directamente hacia arriba y abajo en pendientes, no perpendicularmente.	 Jamás conduzca sobre obstrucciones.	 Jamás retroceda sobre obstrucciones, obstáculos, o suelos no uniformes con los brazos arriba. SW 04 6737041 AR
⚠ AVERTISSEMENT RISQUE DE BLESSURE GRAVE OU MORTELLE 58538	GODET PLEIN GODET VIDE  Maintenez l'extrémité lourde vers le haut de la pente. Montez et descendez les pentes dans l'axe et non en diagonale.	 Ne passez jamais par dessus des obstacles.	 Ne réglez jamais par-dessus des obstacles, des chutes de terrain ou des accidents de terrain avec les bras de levage relevés. G7-6737041-FR

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Danger (6732142)

 DANGER		
	AVOID DEATH • Keep out of this area when lift arms are raised. • Disconnecting or loosening any hydraulic tubeline, hose, fitting or part can cause lift arms to drop. • Attachment can be forced against the ground and cause front of machine to raise. • Always use an approved lift arm support device.	
56420		SW 01 6732142

 PELIGRO		
	EVITE ACCIDENTES FATALES • Manténgase fuera de esta área cuando los brazos de elevación están arriba. • Desconectar o aflojar alguna tubería hidráulica, manguera, unión o parte puede causar la caída de los brazos de elevación. • El implemento se puede forzar contra el suelo y provocar la elevación del frente de la máquina. Use siempre un dispositivo de soporte aprobado en el brazo de elevación.	
56420		SW 04 6732142 AR

 DANGER		
	DANGER DE MORT • Écartez vous de cette zone quand les bras sont relevés. • Le desserrement ou le débranchement d'une conduite hydraulique, d'un flexible, d'un raccord ou d'une pièce peuvent provoquer la chute des bras de levage. • L'accessoire peut être appuyé contre le sol et soulever la partie avant de la machine. • Utilisez toujours un arrêt de bras de levage approuvé.	
56420		VM-02-6732142-FR

MACHINE SIGN TRANSLATIONS (CONT'D)

Warning (6576048)



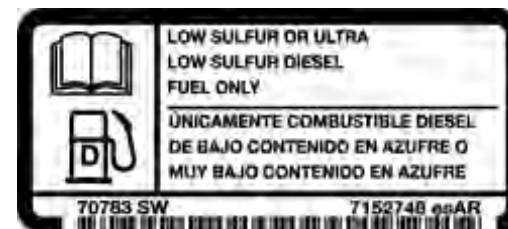
Warning (6817225)



Warning (6804233)



Low Sulfur (7152748)

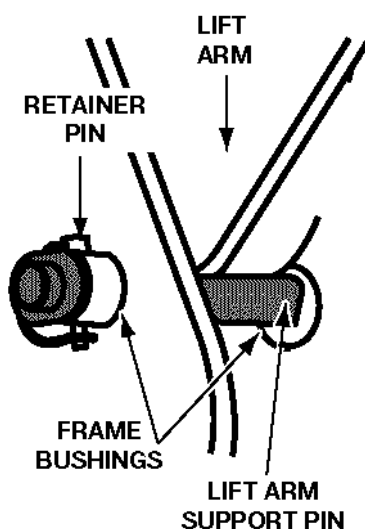


Lift Arm Support Device (6737045)

**TO INSTALL APPROVED
LIFT ARM SUPPORT PIN**

1. Remove attachment from loader.
2. Start engine and raise lift arms.
Stop engine.
3. Remove retainer pin. Remove lift arm support pin from storage position.
4. Install lift arm support pin in frame bushings just below lift arm.
5. Install retainer pin through bushing and lift arm support pin.
6. Lower lift arms slowly until movement stops.

58538



**TO REMOVE LIFT ARM
SUPPORT PIN**

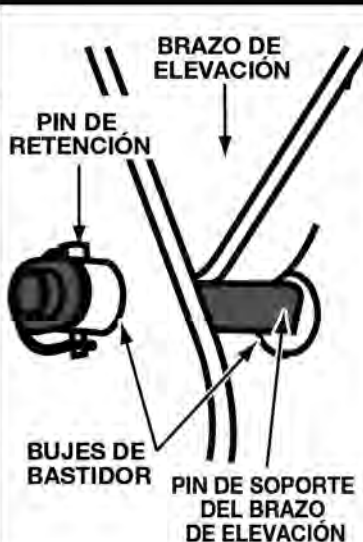
1. Start engine and raise lift arms.
Stop engine.
2. Remove retainer pin and lift arm support pin.
3. Return lift arm support pin to storage position and secure with retainer pin.
4. Lower lift arms.

SW 03 6737045

**PARA INSTALAR EL PIN
DE SOPORTE APROBADO
DEL BRAZO DE ELEVACIÓN**

1. Retire el implemento del cargador.
2. Encienda el motor y eleve los brazos. Detenga el motor.
3. Retire el pin de retención. Retire el pin de soporte del brazo de la posición de almacenamiento.
4. Instale el pin de soporte del brazo en el buje en el bastidor justo debajo del brazo.
5. Instale el pin de retención a través del buje y el pin de soporte del brazo.
6. Baje los brazos lentamente hasta que se detenga el movimiento.

58538



**PARA RETIRAR EL PIN
DE SOPORTE DEL BRAZO
DE ELEVACIÓN**

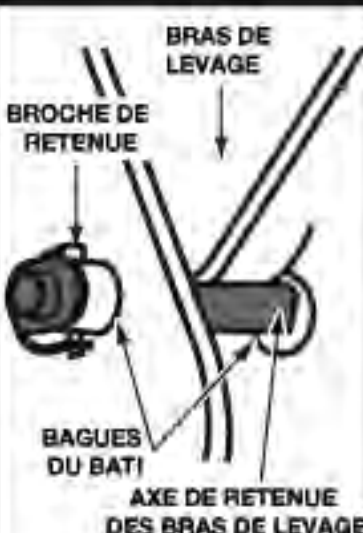
1. Encienda el motor y eleve los brazos. Detenga el motor.
2. Retire el pin de retención y el pin de soporte del brazo.
3. Coloque el pin de soporte de nuevo en la posición de almacenamiento y asegúrelo con el pin de retención.
4. Baje los brazos de elevación.

SW 04 6737045 AR

**POSE DE LA BROCHE
APPROUVEE DE L'ARRÊT DE
BRAS DE LEVAGE**

1. Déposez l'accessoire de la chargeuse.
2. Démarrez le moteur et relevez les bras de levage. Arrêtez le moteur.
3. Enlevez la goupille de retenue. Retirez la broche de l'arrêt de bras de levage de sa position de stockage.
4. Installez la broche de l'arrêt de bras de levage dans les orifices du bâti juste en-dessous du bras de levage.
5. Insérez la goupille de retenue à travers la bague et l'axe de blocage de l'arrêt de bras de levage.
6. Abaissez lentement les bras de levage jusqu'à leur arrêt complet.

58538



**DEPOSE DE L'AXE DE RETENUE
DES BRAS DE LEVAGE**

1. Démarrez le moteur et relevez les bras de levage. Arrêtez le moteur.
2. Enlevez la goupille et l'axe de retenue du bras de levage.
3. Remplacez l'axe de retenue des bras de levage en position de stockage et verrouillez-le à l'aide de la goupille.
4. Abaissez les bras de levage.

SW-6737045-FR



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SPECIFICATIONS

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Bobcat®

(MT55) MINI TRACK LOADER SPECIFICATIONS (CONT'D)**Performance**

	With Standard Narrow Tracks and Bucket	With Optional Wide Tracks and Bucket
Rated Operating Capacity	249 kg (550 lb)	249 kg (550 lb)
Tipping Load	732 kg (1610 lb)	773 kg (1705 lb)
Operating Weight	1186 kg (2610 lb)	1236 kg (2725 lb)
Breakout Force - Lift	7784 N (1750 lbf)	7784 N (1750 lbf)
Breakout Force - Tilt	12989 N (2920 lbf)	12989 N (2920 lbf)
Travel Speed		
Forward	0 - 5,6 km/h (0 - 3.5 mph)	0 - 5,6 km/h (0 - 3.5 mph)
Reverse	0 - 2,43 km/h (0 -1.5 mph)	0 - 2,43 km/h (0 -1.5 mph)

Controls

Machine Steering	Direction and speed controlled by one multifunction handle
Mini Track Loader Hydraulics	
- Lift and Tilt	Controlled by joystick
- Front Auxiliary (Std.)	Controlled by fore and aft movement of hand lever
Auxiliary Pressure Release	Controlled by fore and aft movement of hand lever
Engine	Hand lever speed control; key-type starter switch
Service Brake	Two independent hydrostatic circuits controlled by one multifunction handle
Secondary Brake	One of the hydrostatic transmissions
Parking Brake (Std.)	Hand lever operation

Engine

Make / Model	
- A3WT11001 & Above	Kubota D902-E3B-BC-1
- B38T11001 & Above	Kubota D902-E4B-BC-1
Fuel / Cooling	Diesel (Low Sulfur) / Liquid
Horsepower	
- ISO 9249 EEC / SAE J1349 Net	17,5 kW (23.5 hp) @ 3600 rpm
- ISO 14396 Gross	18,2 kW (24.4 hp) @ 3600 rpm
- SAE J1349 Gross	18,5 kW (24.8 hp) @ 3600 rpm
Torque	
- ISO 9249 EEC / SAE J1349 Net	54,2 N•m (39.9 ft-lb) @ 2600 rpm
- SAE J1349 Gross	56,1 N•m (41.4 ft-lb) @ 2600 rpm
Number of Cylinders	3
Displacement	0,899 L (54.9 in ³)
Bore / Stroke	72,0 mm / 73,6 mm (2.83 / 2.90)
Lubrication	Gear Pump Pressure System with Filter
Crankcase Ventilation	Closed
Air Cleaner	Dual dry replaceable paper cartridges
Ignition	Diesel-Compression
Low Idle	1025 - 1125 rpm
High Idle	3770 - 3870 rpm
Engine Coolant	Propylene Glycol / Water Mixture

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(MT55) MINI TRACK LOADER SPECIFICATIONS (CONT'D)

Hydraulic System

Pump Type	Engine driven, gear type
Pump Capacity	45,4 L/min (12 U.S. gpm) @ High Idle
System Relief at Quick Couplers	19900 kpa (199 bar) (2900 psi)
Filter (Hydraulic)	Full flow replaceable, 10-micron synthetic media element
Hydraulic Cylinders Bore Diameter: Lift Cylinder (2) Tilt Cylinder (2) Rod Diameter: Lift Cylinder (2) Tilt Cylinder (2) Stroke: Lift Cylinder (2) Tilt Cylinder (1)	Double-acting; tilt cylinders have cushioning feature on dump and rollback 57,2 mm (2.25 in) 76,2 mm (3.00 in) 31,8 mm (1.25 in) 31,8 mm (1.25 in) 359,7 mm (14.16 in) 268,2 mm (10.56 in)
Control Valve	3-Spool, open center type with float detent on lift
Fluid Type	Bobcat Fluid, Hydraulic / Hydrostatic 6903117 - (2.5 U.S. gal container) 6903118 - (5 U.S. gal container) 6903119 - (55 U.S. gal container)
Fluid Lines	SAE Standard tubelines, hoses and fittings
Hydraulic Function Time: Raise Lift Arms Lower Lift Arms Bucket Dump Bucket Rollback	2.9 seconds 2.0 seconds 1.6 seconds 1.4 seconds

Electrical

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

Drive System

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

Capacities

Fuel	26,5 L (7 U.S. gal)
Engine Lubrication and Filter	3,6 L (3.8 qt)
Engine Cooling System	4,73 L (5 qt)
Hydraulic / Hydrostatic Reservoir Only (Center of Sight Glass)	9,5 L (2.5 U.S. gal)
Hydraulic / Hydrostatic System	20,0 L (5.3 U.S. gal)

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(MT55) MINI TRACK LOADER SPECIFICATIONS (CONT'D)

Tracks

Standard	180 mm (7.1 in) Rubber
Wide (Optional)	250 mm (9.8 in) Rubber

Ground Pressure

Standard Track And Bucket	0,33 kPa (0.337 bar) (4.9 psi)
Wide Track And Bucket	0,25 kPa (0.248 bar) (3.6 psi)

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WARRANTY

WARRANTY 117

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Bobcat®

WARRANTY

Bobcat Loaders

Bobcat Company warrants to its authorized dealers and authorized dealers of Bobcat Equipment Ltd., who in turn warrant to the owner, that each new Bobcat loader will be free from proven defects in material and workmanship with respect to (i) all components of the product except as otherwise specified herein for twelve (12) months, (ii) the drive belt from the hydrostatic pump to the engine, for thirty six (36) months, provided that after the initial twelve month warranty period, such warranty shall be limited to parts only and does not include labor, (iii) tracks and Bobcat brand tires, for twelve (12) months on a prorated basis based on the remaining depth of the track or tire at the time any defect is discovered, and (iv) Bobcat brand batteries, for an additional twelve (12) months after the initial twelve month warranty period, provided that Bobcat Company shall only reimburse a fixed portion of the cost of replacing the battery during such additional twelve months. The foregoing time periods shall all commence after delivery by the authorized Bobcat dealer to the original buyer.

During the warranty period, the authorized Bobcat dealer shall repair or replace, at Bobcat Company's option, without charge for parts and labor, any part of the Bobcat product except as otherwise specified herein which fails because of defects in material or workmanship. The owner shall provide the authorized Bobcat dealer with prompt written notice of the defect and allow reasonable time for repair or replacement. Bobcat Company may, at its option, require failed parts to be returned to the factory. Travel time of mechanics and transportation of the Bobcat product to the authorized Bobcat dealer for warranty work are the responsibility of the owner. The remedies provided in this warranty are exclusive.

This warranty does not apply to diesel engine fuel injection pumps and injectors or tires (except Bobcat brand tires). The owner shall rely solely on the warranty, if any, of the respective manufacturers thereof. This warranty does not cover replacement of scheduled service items such as oil, filters, tune-up parts, and other high-wear items. This warranty does not cover damages resulting from abuse, accidents, alterations, use of the Bobcat product with any accessory or attachment not approved by Bobcat Company, air flow obstructions, or failure to maintain or use the Bobcat product according to the instructions applicable to it.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND CONDITIONS, EXCEPT THE WARRANTY OF TITLE. BOBCAT COMPANY DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BOBCAT COMPANY OR THE AUTHORIZED BOBCAT DEALER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOSS OR INTERRUPTION OF BUSINESS, LOST PROFITS, OR LOSS OF MACHINE USE, WHETHER BASED ON CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, STATUTE OR OTHERWISE, EVEN IF BOBCAT COMPANY OR THE AUTHORIZED BOBCAT DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL LIABILITY OF BOBCAT COMPANY AND THE AUTHORIZED BOBCAT DEALERS WITH RESPECT TO THE PRODUCT AND SERVICES FURNISHED HEREUNDER SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT UPON WHICH SUCH LIABILITY IS BASED.



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In this emissions limited warranty, the term "Manufacturer" means Kubota Corporation as the holder of the U.S. Environmental Protection Agency (U.S. EPA) Certificate of Conformity and California Executive Order for the vehicle. The emission control limited warranty is in addition to the standard limited warranty for your vehicle.

Your Bobcat dealer is authorized to perform all warranty and service repairs on your diesel engine. To locate a Bobcat dealer, visit www.bobcat.com or call 1-800-743-4340.

KUBOTA Corporation

FEDERAL & CALIFORNIA EMISSION CONTROL SYSTEMS LIMITED WARRANTY for NON-ROAD ENGINES (CI)

The U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB), and KUBOTA Corporation are pleased to explain the Federal and California Emission Control System Warranty on your non-road engine. In California, new heavy duty off-road engines must be designed, built and equipped to meet California's stringent anti-smog standards adopted by the Air Resources Board pursuant to its authority in Chapter 1 and 2, Part 5, Division 26 of the California Health and Safety Code. In other states of the U.S.A., new non-road engines subject to the provisions of 40 CFR 1039 subpart A must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for nonroad engines.

KUBOTA must warrant the emission control system on your Compression Ignition engine for the period of time listed below provided there has been no abuse, vandalism, neglect, improper maintenance or unapproved modifications to your engine. This emission warranty is applicable in all states of the U.S.A., its provinces and territories regardless of whether an individual state, province, or territory has enacted warranty provisions that differ from the Federal warranty provisions. This emission warranty is also applicable in all provinces and territories of CANADA.

Your emission control system may include parts such as the fuel injection system and the air induction system. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, KUBOTA will repair your engine at no cost to you, including diagnosis (if the diagnostic work is performed at an authorized dealer), parts and labor.

EMISSION DESIGN AND DEFECT WARRANTY COVERAGE

The emissions warranty period for the engine begins on the original date of sale to the initial purchaser and continues for each subsequent purchaser for the period mentioned below.

The emissions warranty period for all engines rated under 19kW (25Hp) is 2000 hours of operation or two (2) years of use, whichever first occurs.

The emissions warranty period for constant speed engines rated under 37kW (50Hp) with rated speeds greater than or equal to 3000 rpm is 2000 hours of operation or two (2) years of use, whichever first occurs.

The emissions warranty period for all other engines not already listed is 3000 hours of operation or five (5) years of use, whichever first occurs.

If any emission related part on your engine is defective, the part will be repaired or replaced by KUBOTA free of charge.

OWNER'S WARRANTY RESPONSIBILITIES

(a) As the engine owner, you are responsible for the performance of the required maintenance listed in your KUBOTA operator's manual. KUBOTA recommends that you retain all receipts covering maintenance on your engine, but KUBOTA cannot deny a warranty claim solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

(b) As the engine owner, you should be aware, however, that KUBOTA may deny your warranty coverage if your engine or a part has failed due to abuse, vandalism, neglect, improper maintenance or unapproved modifications.

(c) Your engine is designed to operate on Ultra Low Sulfur Diesel Fuel only. Use of any other fuel may result in your engine no longer operating in compliance with Federal or California's emissions requirements.

(d) You are responsible for presenting your engine to the nearest dealer or service station authorized by KUBOTA when a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

(e) If you have any questions regarding your warranty rights and responsibilities or the location of the nearest authorized dealer or distributor, you should contact: KUBOTA ENGINE AMERICA CORPORATION, Service department at 1-800-532-9808, EEWRI@kubotaengine.com or KUBOTA TRACTOR CORPORATION, National Service Department at 1-800-558-2682, KubotaEmissionsWarranty@kubota.com or KUBOTA CANADA LTD at (905) 294-7477.

COVERAGE

KUBOTA warrants to the initial purchaser and each subsequent purchaser that your engine will be designed, built and equipped, at the time of sale, to meet all applicable regulations. KUBOTA also warrants to the initial purchaser and each subsequent purchaser that your engine shall be free from defects in materials and workmanship which cause the engine to fail to conform to applicable regulations for the period mentioned above from the original date of sale.

KUBOTA shall remedy warranty defects at any authorized KUBOTA engine dealer or warranty station. Any authorized work done at an authorized dealer or warranty station shall be free of charge to the owner if such work determines that a warranted part is defective. Any KUBOTA approved or equivalent replacement part (including any KUBOTA approved aftermarket part) may be used for any warranty maintenance or repairs on emission related parts, and must be provided free of charge to the owner if the part is still under warranty.

KUBOTA is liable for damages to other engine components caused by the failure of a warranted part still under warranty. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your engine emission control system. If such a replacement part is used in the repair or maintenance of your engine, and KUBOTA determines it is defective or causes a failure of a warranted part, your claim for repair of your engine may be denied.

Listed below are the parts covered by the Federal and California Emission Control Systems Warranty. Some parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part. The warranted parts are (if applicable):

- | | | |
|--|---------------------------------------|---|
| 1) Air-Induction System | 4) Electronic Control System | 6) Particulate Controls |
| a) Intake Manifold | a) ECU | a) Any device used to capture particulate emissions. |
| b) Turbocharger System | b) Engine Speed / Timing Sensor | b) Any device used in the regeneration of the particulate control device. |
| c) Charge Air Cooling System (Intercooler) | c) Accelerator Position Sensor | c) Control Device Enclosures and Manifolding |
| 2) Catalyst or Thermal Reactor System | d) Coolant Temperature Sensor | d) Diesel Particulate Filter Temperature Sensor |
| a) Catalytic converter | e) Atmospheric Pressure Sensor | e) Differential Pressure Sensor |
| b) Exhaust manifold | f) Intake Pressure Sensor | 7) Miscellaneous Items |
| 3) Fuel Injection System | g) Intake Manifold Temperature Sensor | a) Closed Breather System |
| a) Fuel Supply Pump | h) Intake Air Flow Sensor | b) Hoses*, Clamps*, Fittings, Tubing* |
| b) Injector | i) Common Rail Pressure Sensor | c) Gaskets, Seals |
| c) Injection Pipe | 5) Exhaust Gas Recirculation System | d) Kubota supplied engine Wiring Harnesses |
| d) Common Rail | a) EGR Valve | e) Kubota supplied engine Elec. Connectors |
| e) Smoke Puff Limiter | b) EGR Cooler | f) Air Cleaner Element*, Fuel Filter Element* |
| f) Speed Timer | c) EGR Valve Opening Rate Sensor | g) Emission Control Information Labels |
| g) Cold Advance Timer | | |
| h) Injection Pump | | |

*Warranty period is equivalent to manufacturer's recommended first replacement interval as stated in the applicable model's operator's manual and/or service (workshop) manual.

MAINTENANCE REQUIREMENTS

The owner is responsible for the performance of the required maintenance as defined by KUBOTA in the operator's manual.

LIMITATIONS

This Emission Control System Warranty shall not cover any of the following:

(a) Repair or replacement required because of misuse or neglect, improper maintenance, repairs improperly performed or replacements not conforming to KUBOTA specifications that adversely affect performance and/or durability, and alteration or modifications not recommended or approved in writing by KUBOTA.

(b) Replacement of parts and other services and adjustments necessary for required maintenance at and after the first scheduled replacement point.

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