



Bobcat®

Service Manual

Toolcat™ 5600 Utility Work Machine

S/N AHG811001 & Above



Dealer Copy -- Not for Resale

EQUIPPED WITH
TOOLCAT INTERLOCK
CONTROL SYSTEM (TICS™)



MAINTENANCE SAFETY

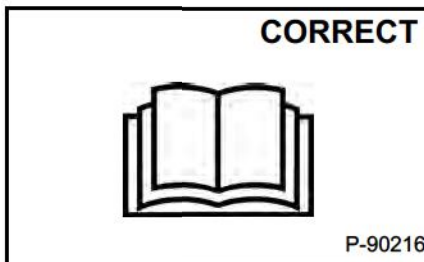


WARNING

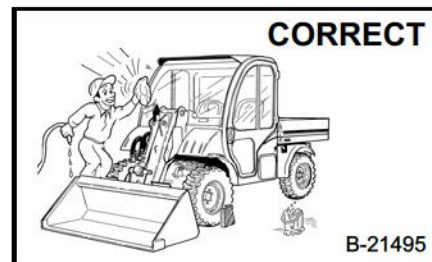
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death. W-2003-0807



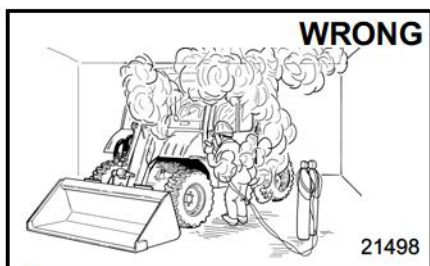
Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



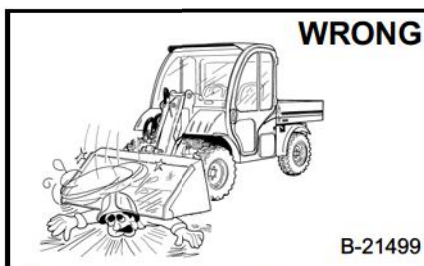
⚠ Never service the machine without instructions.



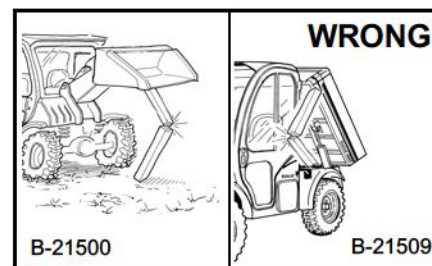
⚠ Cleaning and maintenance are required daily.



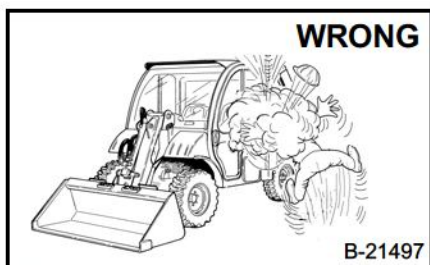
- ⚠ Have good ventilation when welding or grinding painted parts.
- ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
- ⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.



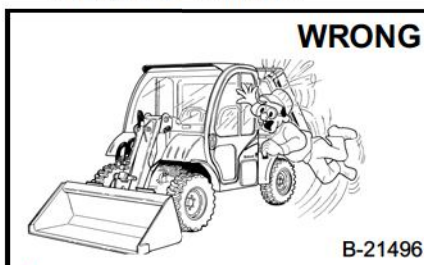
⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arm or cargo box to drop. Do not go under lift arm or cargo box when raised unless supported by an approved lift arm or cargo box support device. Replace it if damaged.



- ⚠ Never work on the machine with lift arm or cargo box up unless supported by an approved support device. Replace if damaged.
- ⚠ Never modify equipment or add attachments not approved by Bobcat Company.



- ⚠ Stop, cool and clean engine of flammable materials before checking fluids.
- ⚠ Never service or adjust machine 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.



- ⚠ 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 side access doors closed except for service.



- ⚠ 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.

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MSW25-0409

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FOREWORD

This manual is for the Toolcat Utility Work Machine mechanic. It provides necessary servicing and adjustment procedures for the Toolcat Utility Work Machine and its component parts and systems. Refer to the for operating instructions, starting procedure, daily checks, etc.

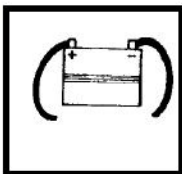
A general inspection of the following items must be made after the machine has had service or repair:

- | | | | |
|---|--|---|--|
| 1. Check that the ROPS/FOPS (Including front and rear window) is in good condition and is not modified. | | 10. The parking brake must function correctly. | |
| 2. Check that ROPS mounting hardware is tightened and is Bobcat approved. | | 11. Enclosure door latches must open and close freely. | |
| 3. The operator and passenger seat belts must be correctly installed, functional and in good condition. | | 12. Bob-Tach™ wedges and linkages must function correctly and be in good condition. | |
| 5. Check lift arm support device, replace if damaged. | | 13. Safety treads and floor mats must be in good condition. | |
| 6. Check cargo box support device, replace if damaged. | | 14. Check for correct function of indicator lamps. | |
| 7. Machine signs (decals) must be legible and in the correct location. | | 15. Check hydraulic fluid level, engine oil level and fuel supply. | |
| 8. Joystick control lever and foot pedals must return to neutral. | | 16. Inspect for fuel, oil or hydraulic fluid leaks. | |
| 9. Check for correct function of the work lights. | | 17. Lubricate the machine. | |

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18. Check the condition of the battery and cables.



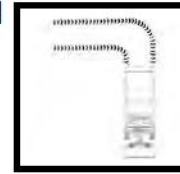
23. Check for any field modification not completed.



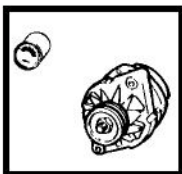
19. Inspect the air cleaner for damage or leaks. Check the condition of the element.



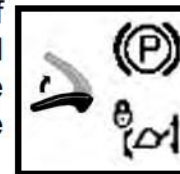
23. Operate the machine and check all functions.



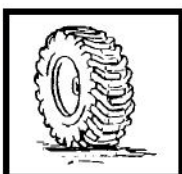
20. Check the electrical charging system.



25. Check for correct function of the Toolcat Interlock Control System (TICS) before the machine is returned to the customer.



21. Check tires for wear and pressure. Use only approved tires.



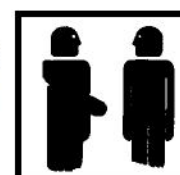
26. Check function or condition of all equipped options and accessories (examples: back-up alarm, fire extinguisher, rotating beacon, etc.).



22. Inspect for loose or broken parts or connections.



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



**CALIFORNIA
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm.

SAFETY INSTRUCTIONS

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



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



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

I-2019-0284



The signal word **DANGER** on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107



The signal word **WARNING** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

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

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- An Operator's Handbook fastened to the operator cab. It's brief instructions are convenient to the operator. The handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Utility Work Machine Operator Training Course is available through your local dealer or at www.training.bobcat.com or www.bobcat.com. This course is intended to provide rules and practices of correct operation of the utility work machine. The course is available in English and Spanish versions.
- The Utility Work Machine Safety Video is available from your Bobcat dealer or at www.training.bobcat.com or www.bobcat.com.

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FIRE PREVENTION



Maintenance

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

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

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

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

Operation

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

Electrical



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

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

Hydraulic System

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

Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling



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

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

Starting

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

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

Spark Arrester Exhaust System

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

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

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FIRE PREVENTION (CONT'D)

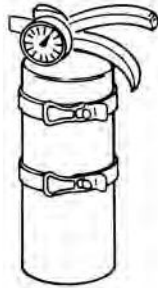
Welding And Grinding

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Bobcat controllers before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding.

Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.

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

Fire Extinguishers

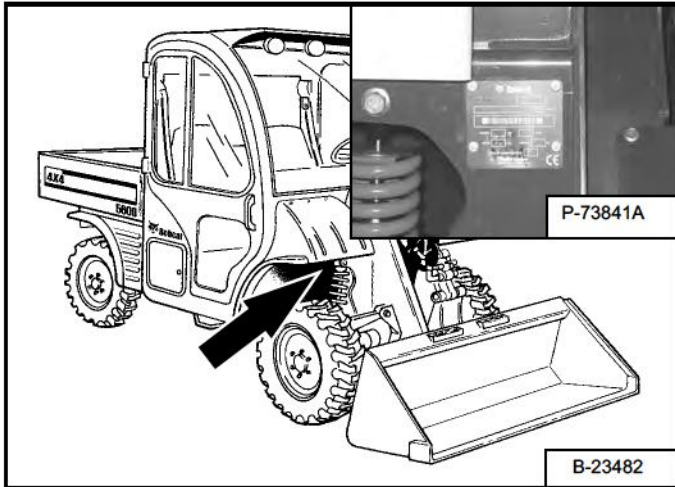


Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

SERIAL NUMBER LOCATIONS

Always use the serial number of the machine 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.

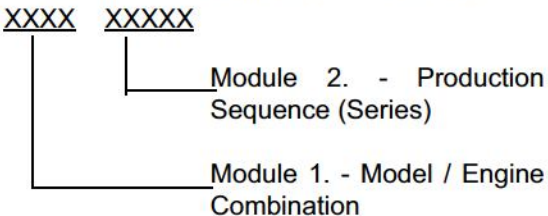
Figure 1



Utility Work Machine Serial Number

The Toolcat™ utility work machine serial number plate is located on the front of the frame below the right fender [Figure 1].

Explanation of machine Serial Number:

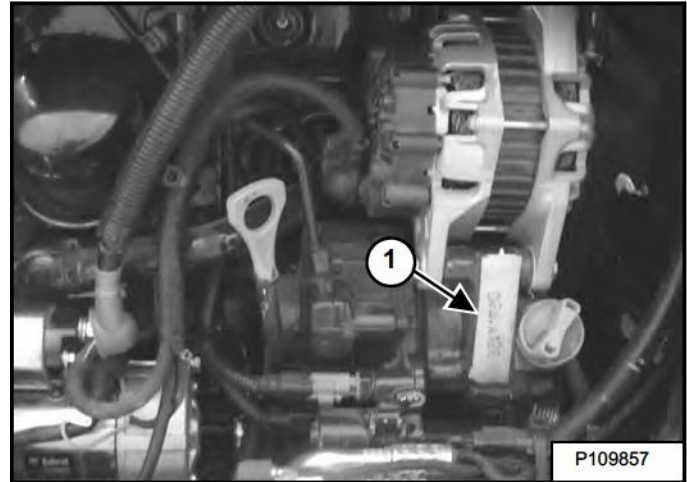


1. The four digit Model / Engine Combination Module number identifies the model number and engine combination.

2. The five digit Production Sequence Number identifies the order which the machine is produced.

Engine Serial Number

Figure 2



The engine serial number is located on the right side of the engine (Item 1) [Figure 2]. (Open the right side access cover to access the engine serial number.)

DELIVERY REPORT

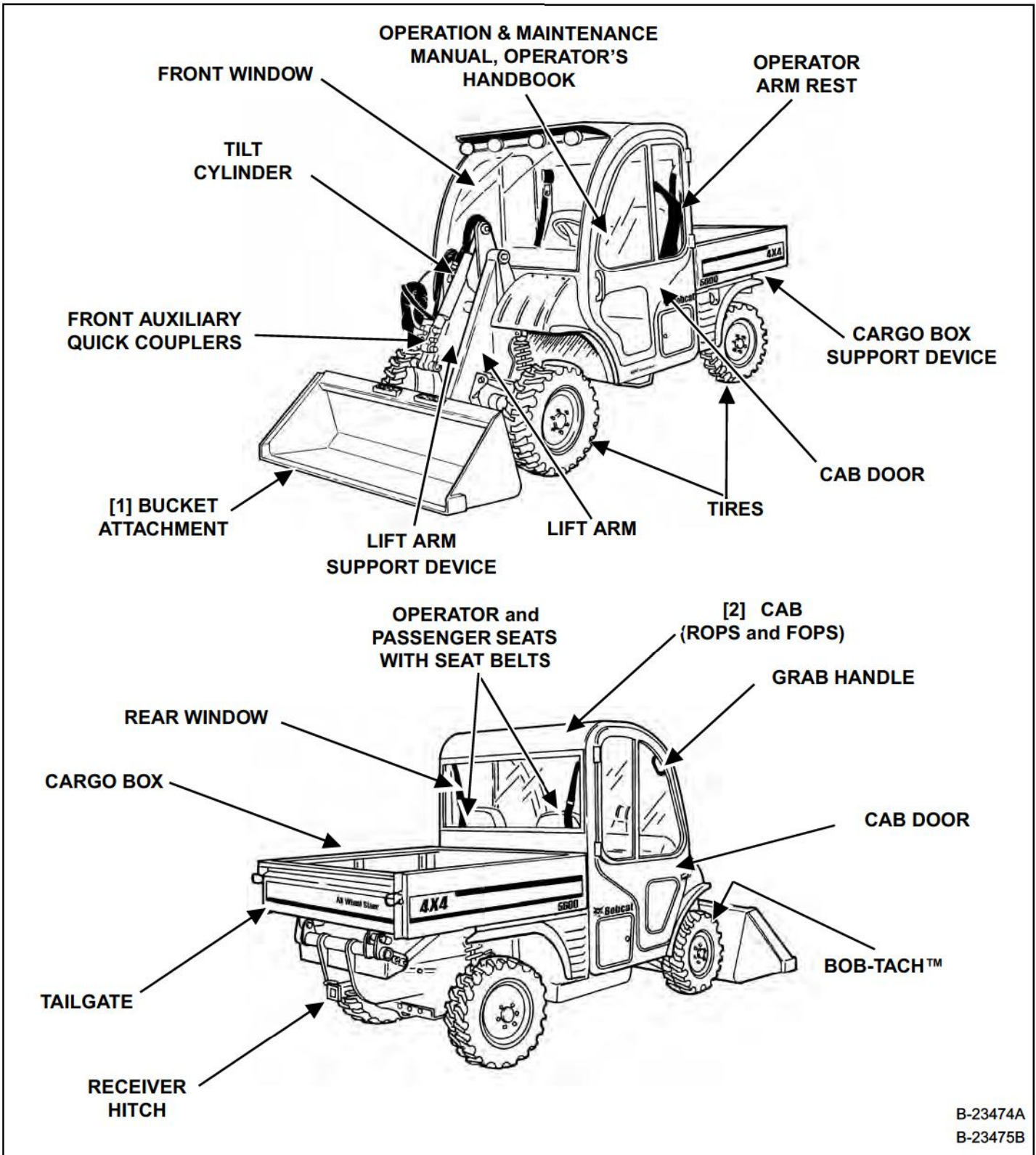
Figure 3

The diagram shows a form titled "DELIVERY REPORT". At the top right, the title "DELIVERY REPORT" is printed. Below the title is a table with several rows and columns. Below the table is a section with a "WARNING" header, followed by two columns of text. At the bottom of the form is a signature line. In the bottom right corner of the form, there is a small box containing the number "B-16315".

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 utility work machine is delivered.

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

UTILITY WORK MACHINE IDENTIFICATION



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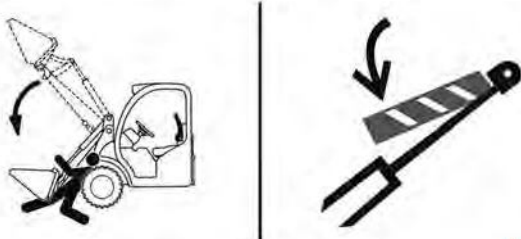
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LIFTING AND BLOCKING THE UTILITY WORK MACHINE

Procedure For Jackstand Placement On The Control Arms

NOTE: For jackstand placement procedure used when removing upper and lower control arms, CV shafts, shocks, spindles and upper control arm stops (See Procedure For Jackstand Placement On The Frame on Page 10-10-2.)



P-90775

AVOID DEATH

- Never reach under or stand under raised lift arm unless supported by an approved lift arm support.
- Moving a lift arm control or failure of a part can cause lift arm to drop.

D-1010-0709

Install the approved lift arm support device. (See Installing on Page 10-20-1.)

Always park the machine on a level surface.

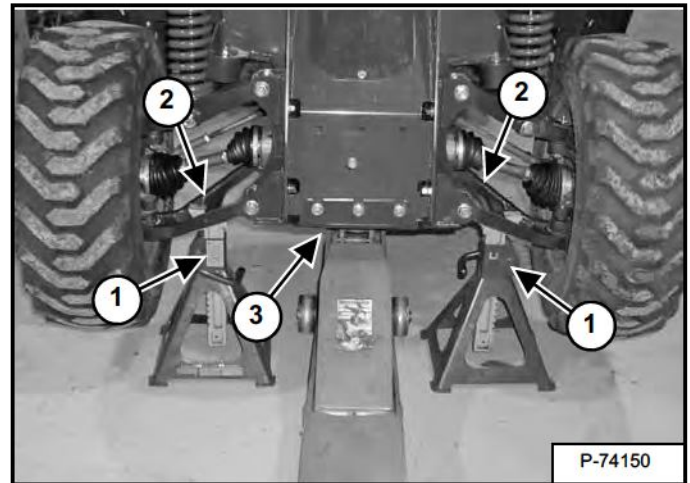


AVOID INJURY OR DEATH

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W-2003-0807

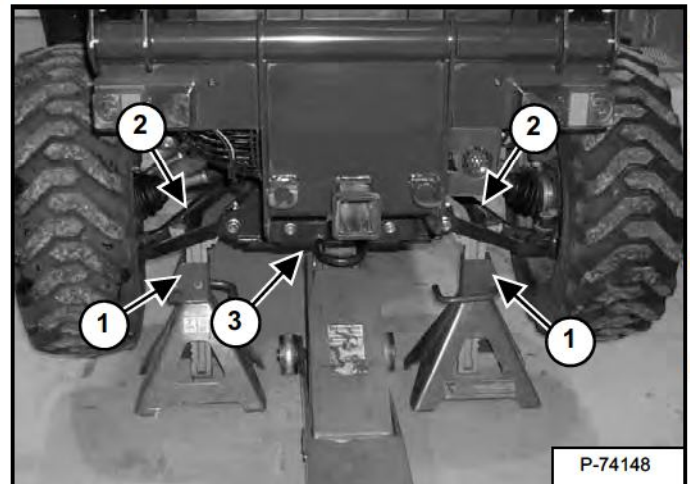
Figure 10-10-1



Place the jackstands (Item 1) on the control arms (Item 2) [Figure 10-10-1] at the front of the machine.

NOTE: When lifting the machine place the jack under the transaxle (Item 3) [Figure 10-10-1].

Figure 10-10-2



Place the jackstands (Item 1) on the control arms (Item 2) [Figure 10-10-2] at the rear of the machine.

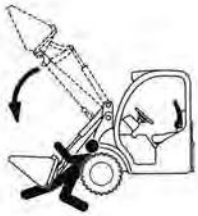
NOTE: When lifting the machine place the jack under the transaxle (Item 3) [Figure 10-10-2].

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LIFTING AND BLOCKING THE UTILITY WORK MACHINE (CONT'D)

Procedure For Jackstand Placement On The Frame

NOTE: This procedure is shown for the removal of upper and lower control arms, CV shafts, shocks, spindles and upper control arm stops.



P-90775

AVOID DEATH

- Never reach under or stand under raised lift arm unless supported by an approved lift arm support.
- Moving a lift arm control or failure of a part can cause lift arm to drop.

D-1010-0709

Install the approved lift arm support device. (See Installing on Page 10-20-1.)



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.

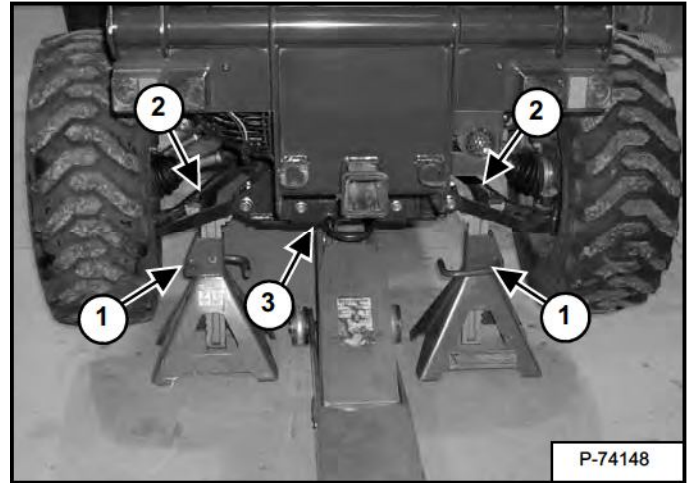
W-2003-0807

Always park the machine on a level surface.

NOTE: This procedure allows removal of components that cannot have a jackstand located on the control arm where the work is being performed.

NOTE: The procedure shown is for front component removal. Place the jackstands under the front control arms and under the rear frame for rear component removal.

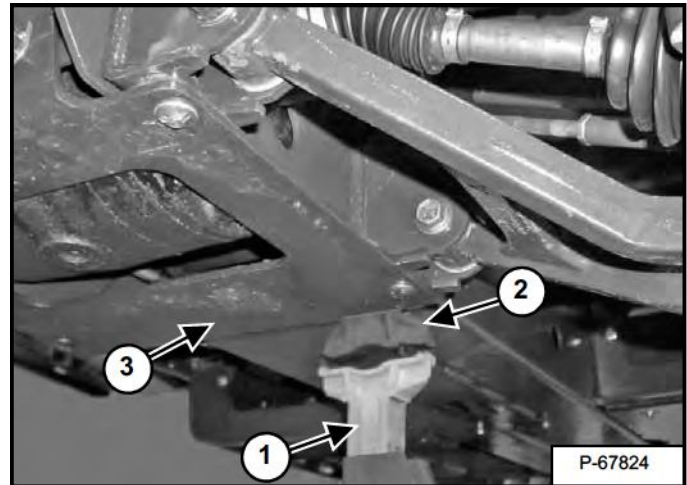
Figure 10-10-3



Place the jackstands (Item 1) on the control arms (Item 2) [Figure 10-10-3] at the rear of the machine.

NOTE: When lifting the machine place the jack under the transaxle (Item 3) [Figure 10-10-3].

Figure 10-10-4



Place the jackstand (Item 1) on the center of the frame (Item 2) behind the plate (Item 3) [Figure 10-10-4].

LIFT ARM SUPPORT DEVICE

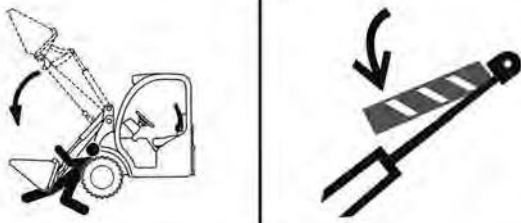
Installing

! WARNING

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

W-2447-1102

! DANGER



P-90775

AVOID DEATH

- Never reach under or stand under raised lift arm unless supported by an approved lift arm support.
- Moving a lift arm control or failure of a part can cause lift arm to drop.

D-1010-0709

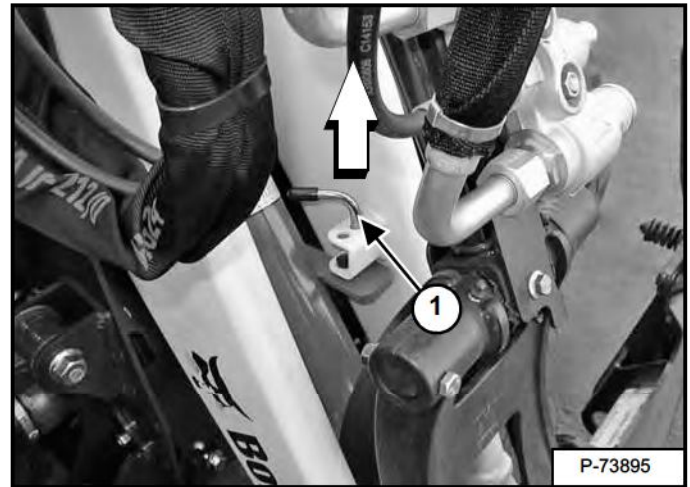
! WARNING

Service lift arm support device if damaged. Using a damaged lift arm support can cause lift arm to drop causing injury or death.

W-2448-1102

Remove any attachment from the Bob-Tach and fully lower the lift arm before performing this procedure.

Figure 10-20-1



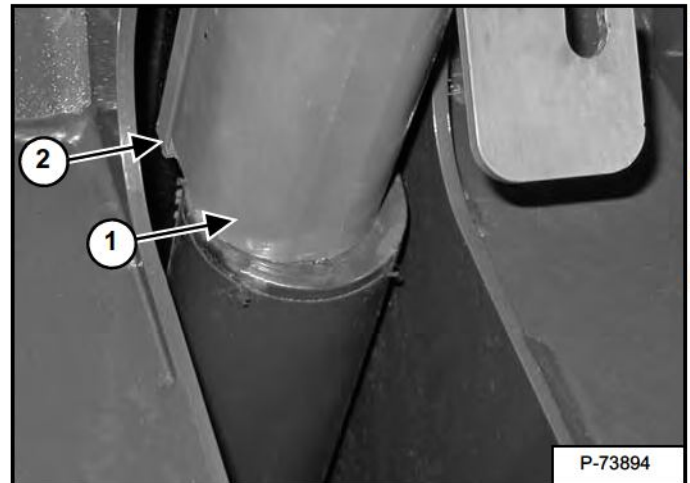
Pull the latch (Item 1) [Figure 10-20-1] up to release the lift arm support.

Enter the cab, lower the arm rest, fasten the seat belt and start the engine.

Raise the lift arm all the way up.

Stop the engine and exit the cab.

Figure 10-20-2



Swing the lift arm support (Item 1) [Figure 10-20-2] toward the cylinder rod. Raise and place into position on top of cylinder base. Lift arm support must contact cylinder rod.

Tab on each side of lift arm support (Item 2) [Figure 10-20-2] will hook in place around cylinder base when properly installed.

Enter the cab, lower the arm rest, fasten the seat belt and start the engine.

Lower the lift arm until it is supported by the support device.

Stop the engine and exit the cab.

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LIFT ARM SUPPORT DEVICE (CONT'D)

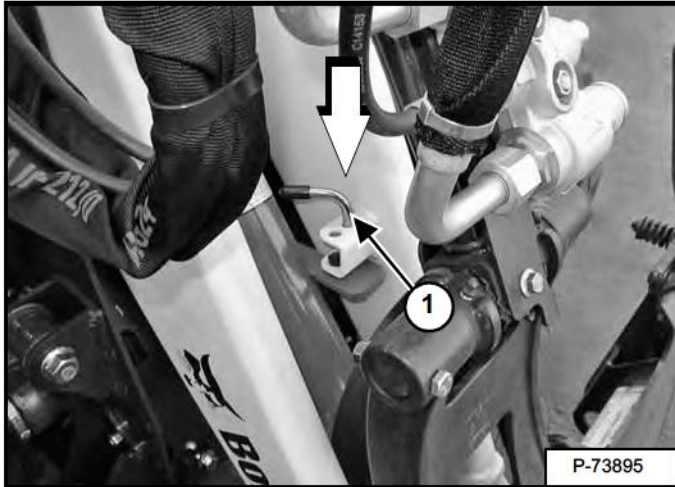
Removing

Enter the cab, lower the arm rest, fasten the seat belt and start the engine.

Raise the lift arm all the way up.

Stop the engine and exit the cab.

Figure 10-20-3



Position the lift arm support and latch (Item 1) **[Figure 10-20-3]** securely into the storage position.

Enter the cab, lower the arm rest, fasten the seat belt and start the engine.

Fully lower the lift arm.

Stop the engine and exit the cab.

CARGO BOX SUPPORT DEVICE

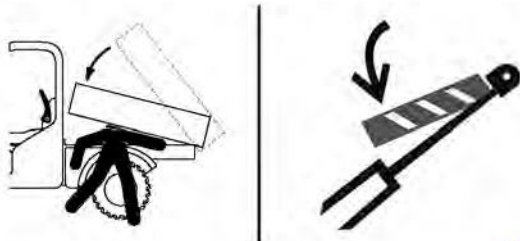
Installing

! WARNING

Never work on a machine with the cargo box up unless the cargo box is supported by an approved support device. Failure to use an approved support device can allow the cargo box to fall and cause injury or death.

W-2449-1102

! DANGER



P-90784

AVOID DEATH

Never reach under or work under raised cargo box unless supported by an approved support.

D-1011-0709

! WARNING

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

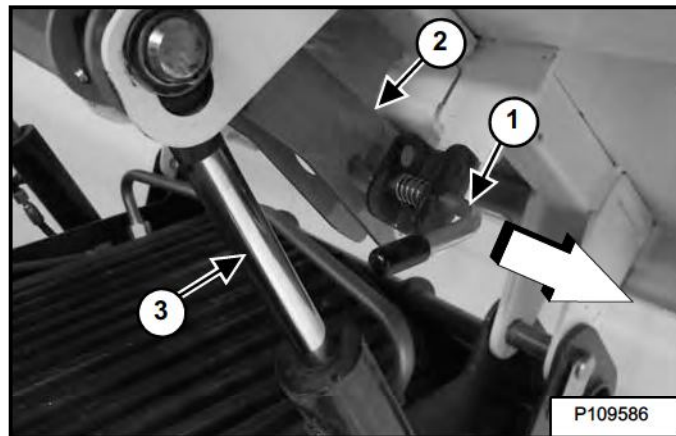
W-2450-1102

Empty the cargo box before installing the cargo box support device.

Enter the cab, lower the arm rest, fasten the seat belt, start the engine and raise the cargo box fully.

Stop the engine and exit the cab.

Figure 10-21-1



Release the storage latch (Item 1) and lower the support (Item 2) on to the cylinder rod (Item 3) [Figure 10-21-1].

Figure 10-21-2



Enter the cab, lower the arm rest, fasten the seat belt, start the engine and lower the cargo box until it is supported by the support device [Figure 10-21-2].

Removing

Enter the cab, lower the arm rest, fasten the seat belt, start the engine and raise the cargo box fully.

Stop the engine and exit the cab.

Raise cargo box support until it latches securely into the storage position.

Enter the cab, lower the arm rest, fasten the seat belt, start the engine and lower the cargo box fully.

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CARGO BOX SUPPORT DEVICE (CONT'D)

Raising The Cargo Box When Engine Is Not Running

Figure 10-21-3



Install lift straps (or chains) through the stake holes at the front of the cargo box [Figure 10-21-3].

Fasten the lift straps to a hoist.

Raise the hoist until the cargo box is all the way up.

Install cargo box support device. (See Installing on Page 10-21-1.)

OPERATOR CAB

Description

Figure 10-30-1



The machine has an operator cab (ROPS and FOPS) [Figure 10-30-1] as standard equipment to protect the operator from rollover and falling objects. The seat belt must be worn for rollover protection. Check with your dealer if the operator cab has been damaged or modified.

ROPS / FOPS - Roll Over Protective Structure per ISO 3471, and Falling Object Protective Structure per ISO 3449, Level I.

Level I

Protection from falling bricks, small concrete blocks, and hand tools encountered in operations such as highway maintenance, landscaping, and other construction site services.

WARNING

Never modify operator cab by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat Company. Changes to the cab can cause loss of operator protection from rollover and falling objects, and result in injury or death.

W-2069-0200

TRANSPORTING THE UTILITY WORK MACHINE ON A TRAILER

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 transport and towing vehicles are of adequate size and capacity for the weight of machine. (See Performance on Page SPEC-10-3.)

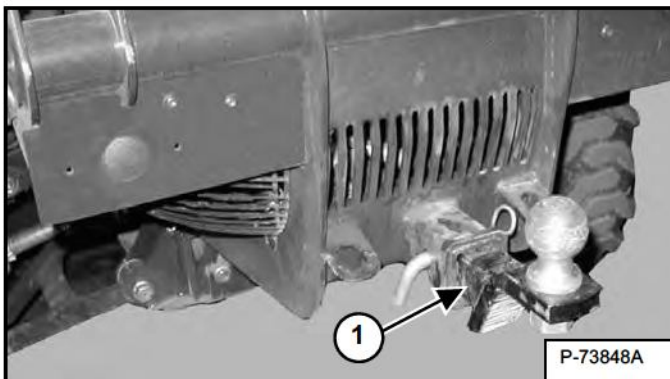
Figure 10-40-1



A machine with an attachment must be loaded or unloaded forward. A machine without an attachment can be loaded or unloaded either forward or backward [Figure 10-40-1].

The rear of the trailer must be blocked or supported [Figure 10-40-1] when loading or unloading to prevent the front end of the trailer from raising up.

Figure 10-40-2



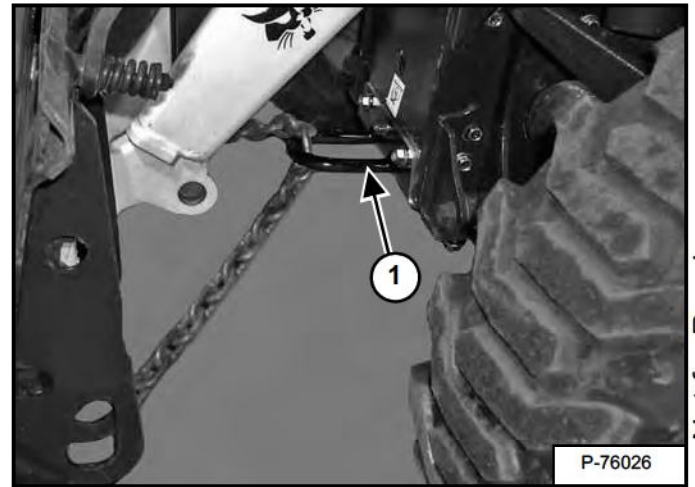
It may be necessary to remove items installed in the receiver hitch (Item 1) [Figure 10-40-2] before loading or unloading to prevent them from hitting the ground.

Fastening

Use the following procedure to fasten the machine to the transport vehicle to prevent it from moving during turns, sudden stops or when going up and down slopes.

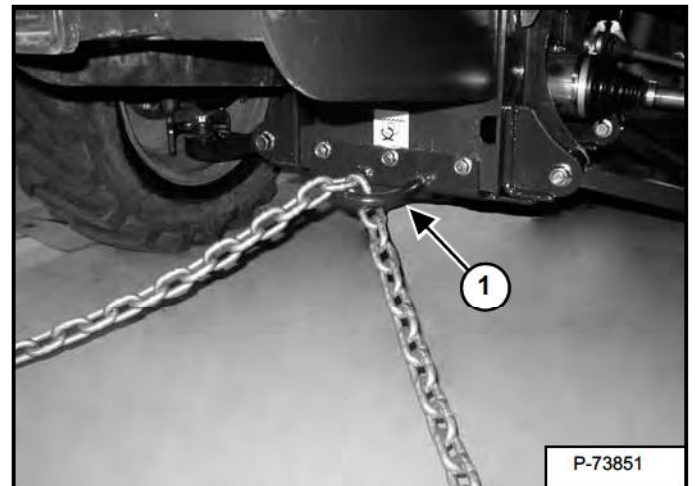
Fully lower any bucket or attachment. Put the Travel Direction Control Lever in the PARK position. Stop the engine. Move the controls to neutral and raise the arm rest.

Figure 10-40-3



Fasten the front of machine using the front tie down point (Item 1) [Figure 10-40-3].

Figure 10-40-4



Fasten the rear of machine using the rear tie down point (Item 1) [Figure 10-40-4].

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TOWING THE UTILITY WORK MACHINE

Procedure

Because of the design of the utility work machine, there is not a recommended towing procedure.

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

The towing chain (or cable) must be rated at one and 1.5 times the weight of the utility work machine. (See Performance on Page SPEC-10-3.)

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