

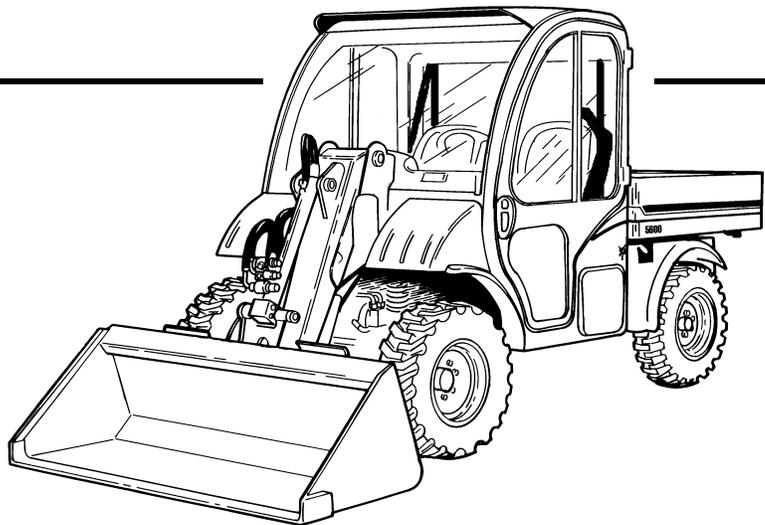
Toolcat™
5600



Bobcat®

Service Manual

S/N 520511001 & Above



Equipped With Toolcat Interlock
Control System (TICS)

Sample of manual. Download All 602 pages at:
<https://www.aresairmanual.com/downloads/2009-bobcat-toolcat-5600-service-repair-workshop-manual6901892/>

Product: 2009 Bobcat Toolcat? 5600 Service Repair Workshop Manual(6901892)

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MAINTENANCE SAFETY



WARNING

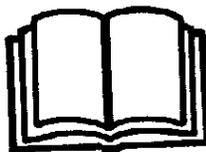
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after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

W-2003-0903



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

CORRECT



B-10731a

- ⚠ Never service the machine without instructions.

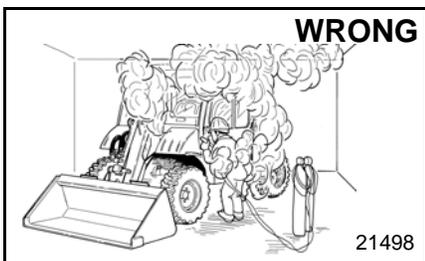
CORRECT



B-21495

- ⚠ Cleaning and maintenance are required daily.

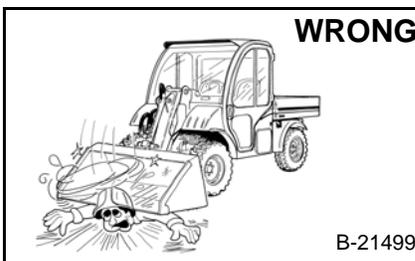
WRONG



21498

- ⚠ 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.

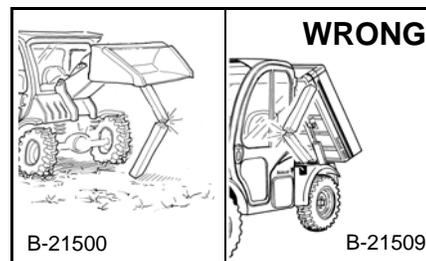
WRONG



B-21499

- ⚠ 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.

WRONG

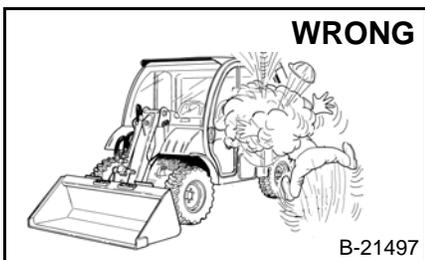


B-21500

B-21509

- ⚠ 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.

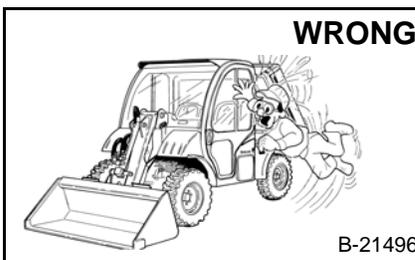
WRONG



B-21497

- ⚠ 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.

WRONG



B-21496

- ⚠ 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.

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**.



Bobcat®

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**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**HYDROSTATIC
SYSTEM**

**DRIVE
SYSTEM**

MAIN FRAME

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**

HVAC

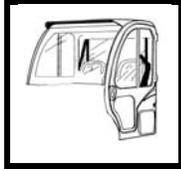
SPECIFICATIONS

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 loader 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.



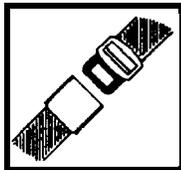
2. Check that ROPS mounting hardware is tightened and is Bobcat approved.



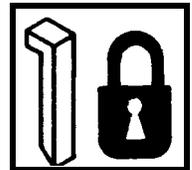
11. Enclosure door latches must open and close freely.



3. The operator and passenger seat belts must be correctly installed, functional and in good condition.



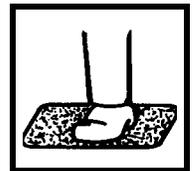
12. Bob-Tach wedges and linkages must function correctly and be in good condition.



5. Check lift arm support device, replace if damaged.



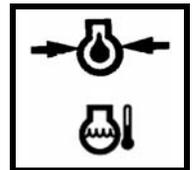
13. Safety treads and floor mats must be in good condition.



6. Check cargo box support device, replace if damaged.



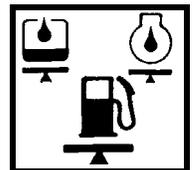
14. Check for correct function of indicator lamps.



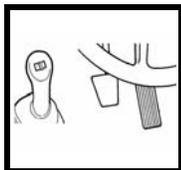
7. Machine signs (decals) must be legible and in the correct location.



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.

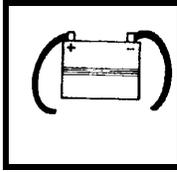


17. Lubricate the machine.

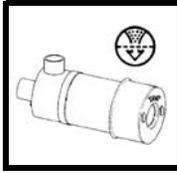


FW TC-0308 SM

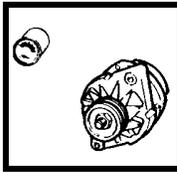
18. Check the condition of the battery and cables.



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



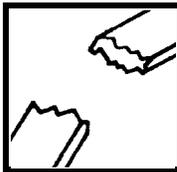
20. Check the electrical charging system.



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



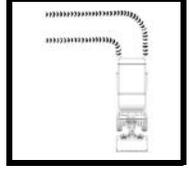
22. Inspect for loose or broken parts or connections.



23. Check for any field modification not completed.



23. Operate the machine and check all functions.



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



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



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.



Bobcat®

SAFETY INSTRUCTIONS



Safety Alert Symbol

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



WARNING

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

W-2003-0903

IMPORTANT

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

I-2019-0284



DANGER

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

D-1002-1107



WARNING

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

W-2044-1107

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

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- 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.

SAFETY INSTRUCTIONS (CONT'D)

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



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

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

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

FIRE PREVENTION



Maintenance

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

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

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

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

Operation

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

Electrical



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

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

Hydraulic System

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

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

Fueling



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

Starting

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

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

Spark Arrestor Exhaust System

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

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

FIRE PREVENTION (CONT'D)

Welding And Grinding

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

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

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

Fire Extinguishers



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

SERIAL NUMBER 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.

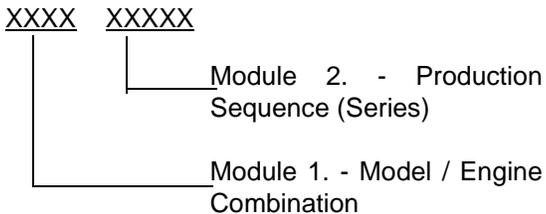
Work Machine Serial Number

Figure 1



The Toolcat Utility Work Machine serial number plate is located on the rear of the frame below the Cargo Box [Figure 1].

Explanation of machine Serial Number:

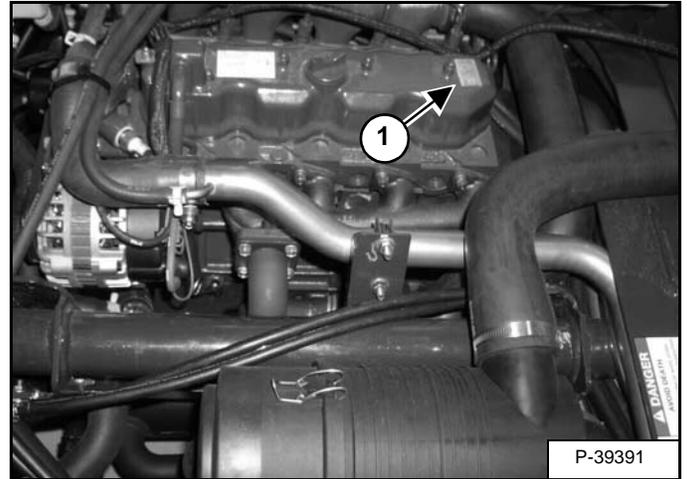


1. The four digit Model/Engine Combination Module number identifies the model number and engine combination.

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

Engine Serial Number

Figure 1-1-1



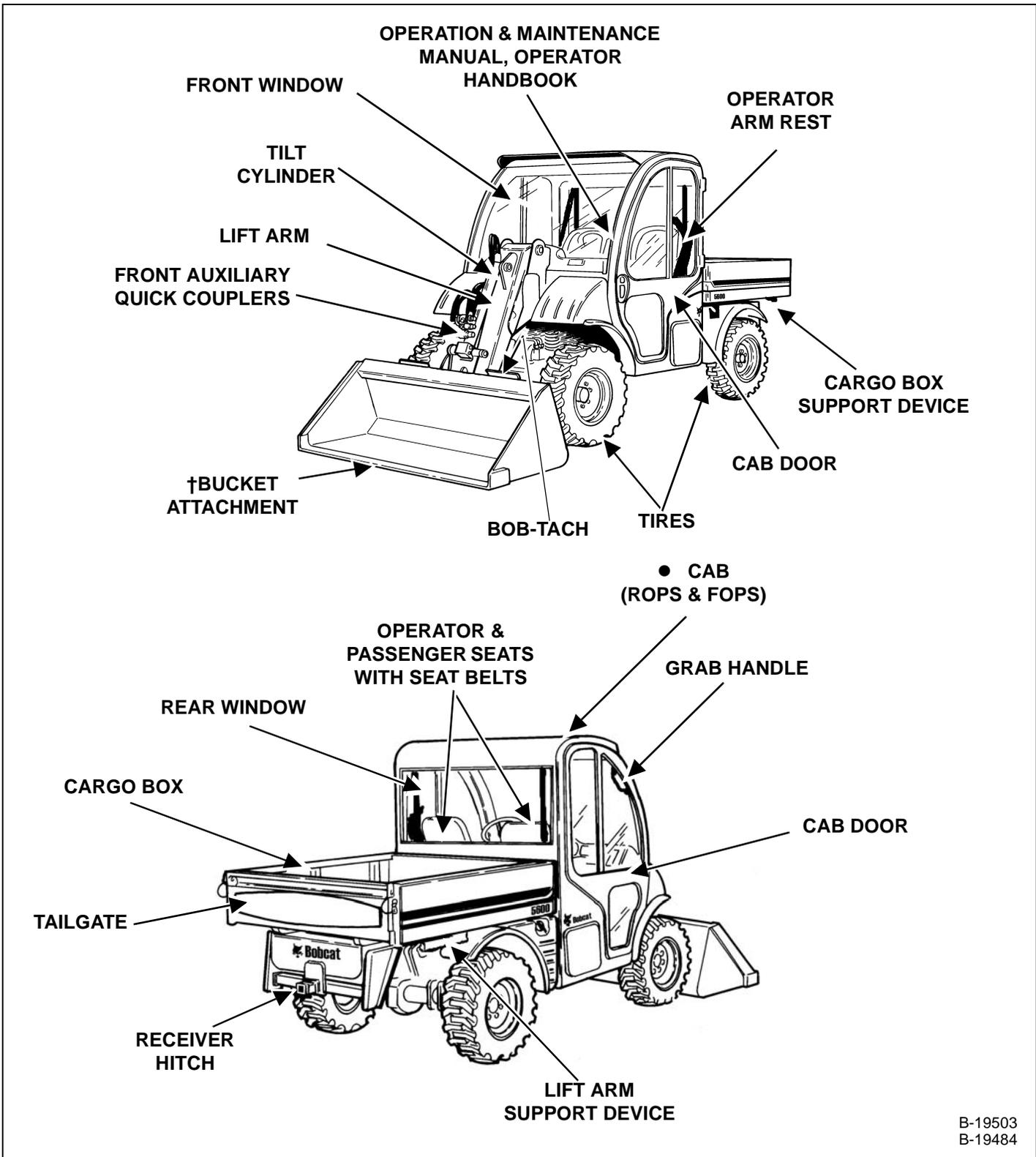
DELIVERY REPORT

The engine serial number is located at the right end of the valve cover (Item 1) [Figure 1-1-1].

Figure 1-1-2

The delivery report must be filled out by the dealer and signed by the owner or operator when the Toolcat Utility Work Machine is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 1-1-2].

BOBCAT UTILITY WORK MACHINE IDENTIFICATION



† BUCKET - Several different buckets and other attachments are available for the Toolcat Utility Work Machine.

● ROPS, FOPS - Roll Over Protective Structure, per SAE J1040 and ISO 3471, and Falling Object Protective Structure per SAEJ1043 and ISO 3449, Level I.

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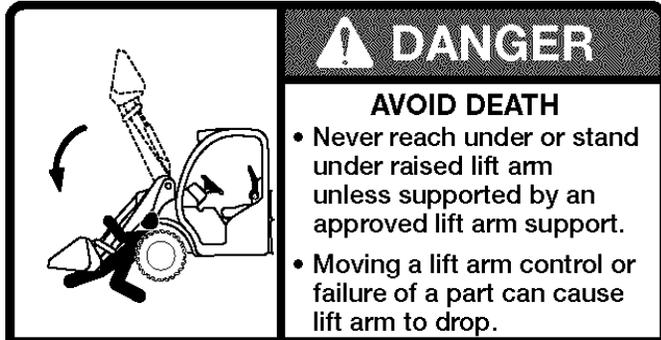
TIGHTEN ALL HARDWARE PER SIZE TO GRADE 5 TORQUE (SEE STANDARD TORQUE SPECIFICATIONS FOR BOLTS, SPEC SECTION) UNLESS OTHERWISE SPECIFIED.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE AND STANDARD ITEMS MAY VARY.

LIFTING AND BLOCKING THE MACHINE

Procedure For Jackstand Placement On The Axle

NOTE: For jackstand placement procedure used for axle removals and other axle related component procedures (See Procedure For Jackstand Placement On The Frame on Page 10-10-2.)



AVOID INJURY OR DEATH

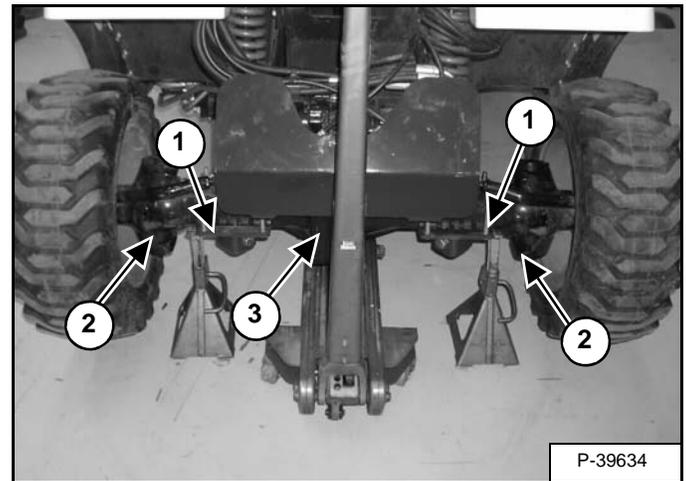
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after 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.

Install the approved lift arm support device. (See Installing The Lift Arm Support Device on Page 10-20-1.)

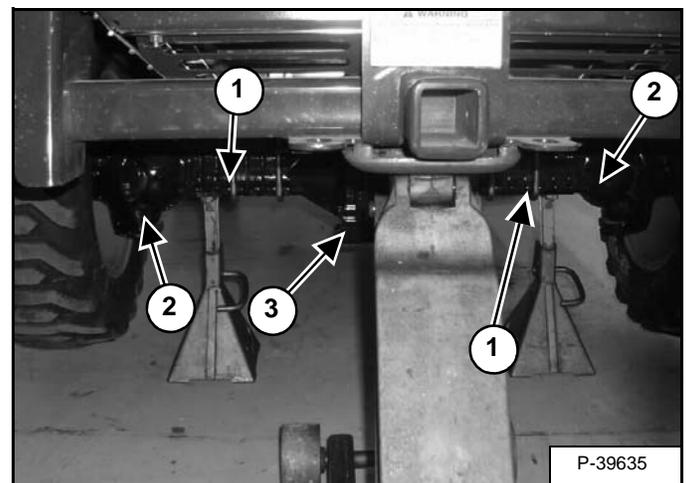
Figure 10-10-1



Place the jackstands on the front axle between the axle mounts (Item 1) and the axle hub (Item 2) [Figure 10-10-1].

NOTE: When lifting the machine place the jack under the frame. Do not lift from the axle differential housing (Item 3) [Figure 10-10-1] this can cause the machine to tilt due to the suspension and the offset axle differential housing.

Figure 10-10-2

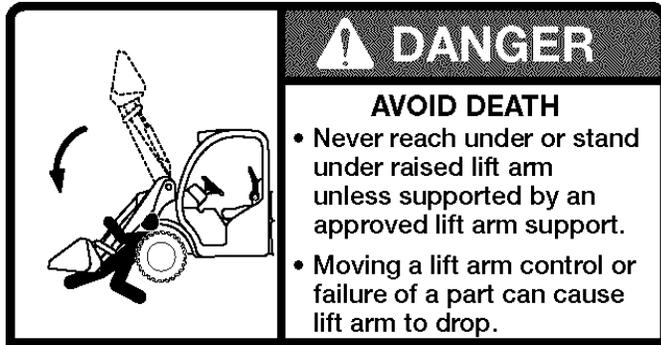


Place the jackstands on the rear axle between the axle mounts (Item 1) and the axle hub (Item 2) [Figure 10-10-2].

NOTE: When lifting the machine place the jack under the rear hitch. Do not lift from the axle differential housing (Item 3) [Figure 10-10-2] this can cause the machine to tilt due to the suspension and the offset axle differential housing.

LIFTING AND BLOCKING THE MACHINE (CONT'D)

Procedure For Jackstand Placement On The Frame



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.

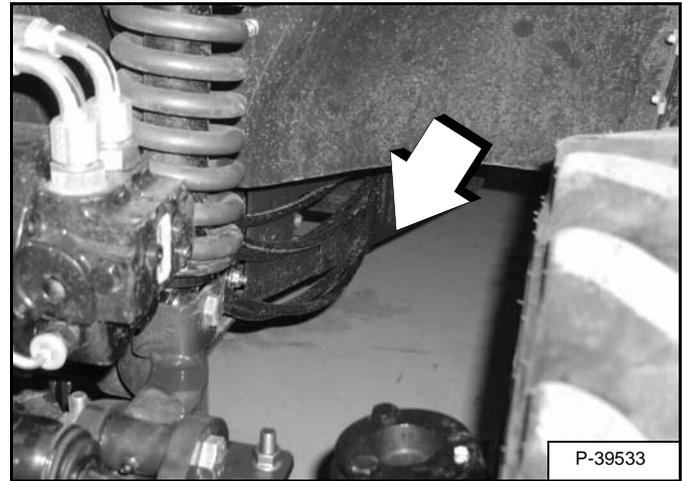
W-2003-0807

Always park the machine on a level surface.

Install the approved lift arm support device. (See Installing The Lift Arm Support Device on Page 10-20-1.)

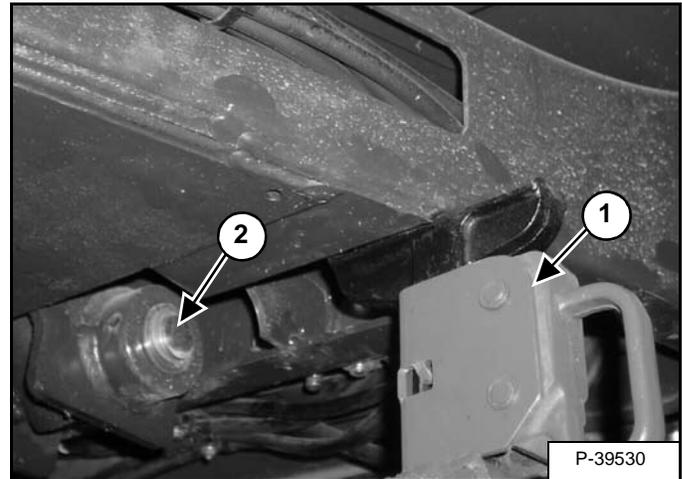
NOTE: This jackstand placement procedure is used for axle removals and other axle related component procedures.

Figure 10-10-3



Install the left jackstand behind the frame cutout. [Figure 10-10-3].

Figure 10-10-4

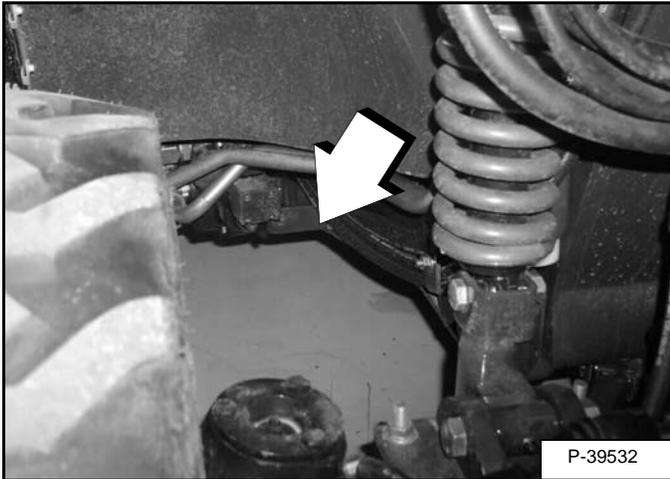


Install the left jackstand (Item 1) in the frame cut parallel with the lift cylinder base end pin (Item 2) [Figure 10-10-4].

LIFTING AND BLOCKING THE MACHINE (CONT'D)

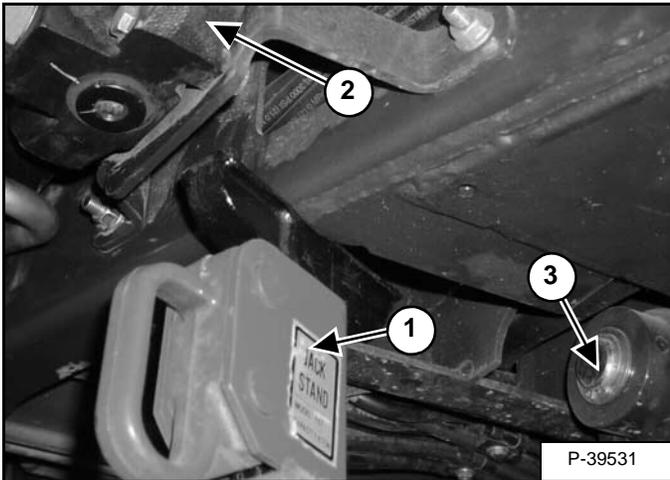
Procedure For Jackstand Placement On The Frame (Cont'd)

Figure 10-10-5



Install the right jackstand between the auxiliary valve and the lift cylinder base end pin [Figure 10-10-5].

Figure 10-10-6



Install the right jackstand (Item 1) between the auxiliary valve (Item 2) and the lift cylinder base end pin (Item 3) [Figure 10-10-6].

Figure 10-10-7



Place the jackstands on the hitch as shown in [Figure 10-10-7].



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LIFT ARM SUPPORT DEVICE

Installing The Lift Arm Support Device

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

WARNING

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

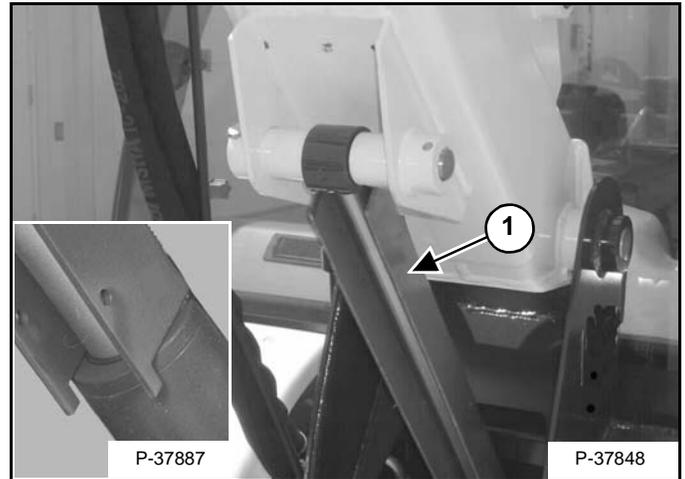
W-2448-1102

Figure 10-20-1



Remove the lift arm support device (Item 1) [Figure 10-20-1] from the storage position under the right side of the Cargo Box.

Figure 10-20-2



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.

Install the lift arm support device (Item 1) [Figure 10-20-2] over the rod of the lift cylinder. Be sure the tabs are over the end of the lift cylinder (Inset) [Figure 10-20-2].

Enter the cab and start the engine.

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

Removing the Lift Arm Support Device

Start the engine and raise the lift arm all the way up. Stop the engine.

Remove the lift arm support device.

Enter the cab, start the engine and lower the lift arm all the way.

Stop the engine and exit the cab.

Return the lift arm support device to the storage position.



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CARGO BOX SUPPORT DEVICE

Installing The Cargo Box Support Device

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

WARNING

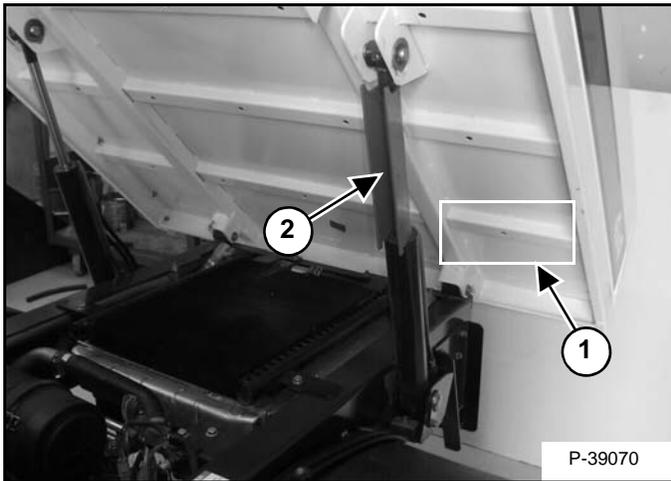
Service cargo box support device if damaged or if parts are missing. Using a damaged support or with missing parts can cause cargo box to drop causing injury or death.

W-2450-1102

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

Stop the engine and exit the cab.

Figure 10-21-1



Remove the cargo box support device from the storage position (Item 1) [Figure 10-21-1].

Install the support device over the cargo box cylinder rod (Item 2) [Figure 10-21-1].

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.

Removing the Cargo Box Support Device

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

Stop the engine and exit the cab.

Remove the support device (Item 2) [Figure 10-21-1] from the cylinder rod.

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

Return the support device to the storage position.



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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.

ROPS / FOPS - Roll Over protective Structure per SAE J1040 and ISO 3471, and Falling Object Protective Structure per SAE J1043 and 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 sites services.

Check with your dealer if the operator cab has been changed.



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TRANSPORTING THE TOOLCAT

Loading Onto Transport Vehicle

Figure 10-40-1



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

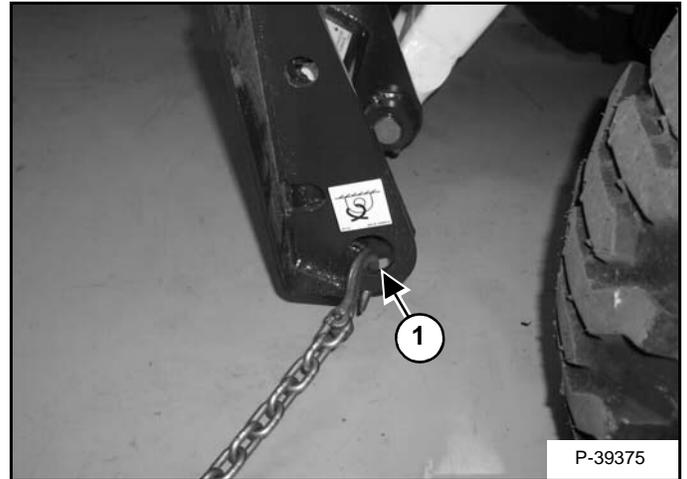
The rear of the trailer must be blocked or supported [Figure 10-40-1] when loading or unloading to prevent the front end of the trailer from raising up.

Fastening To Transport Vehicle

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

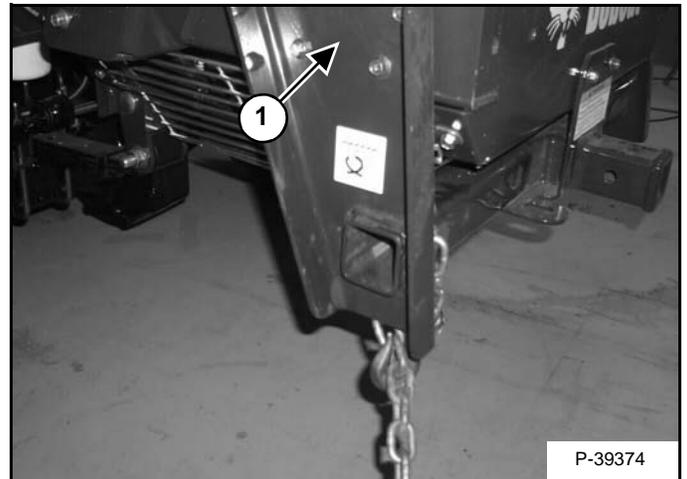
Fully lower any bucket or attachment. Stop the engine. Put the Travel Direction Control Lever in PARK position.

Figure 10-40-2



Fasten chains at the front using the holes in the Bob-Tach (Item 1) [Figure 10-40-2].

Figure 10-40-3



Fasten the rear using the receiver hitch [Figure 10-40-3].

If the receiver hitch is not installed, there is a tie down hole in the frame under receiver hitch mount (Item 1) [Figure 10-40-3].

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