

Service Manual T66 Compact Track Loader

S/N B4SB11001 & Above





MAINTENANCE SAFETY

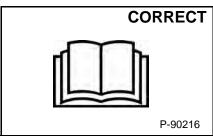


Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after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

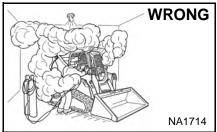
W-2003-0807

A

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 Bobcat Skid-Steer Loader without instructions.



A 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.

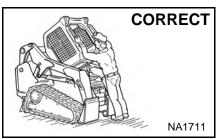


Stop, cool and clean engine of flammable materials before checking fluids.

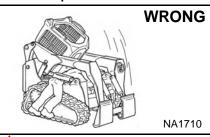
Never service or adjust loader with the engine running unless instructed to do so in the manual.

Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.

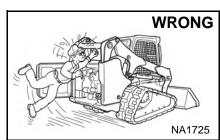
Never fill fuel tank with engine running, while smoking or when near open flame.



Lise the correct procedure to lift or lower operator cab.



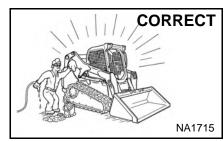
Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace it if damaged.



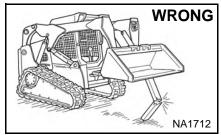
Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.

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.



Cleaning and maintenance are required daily.



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.



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.

MSW40-0609



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FOREWORD

This manual is for the Bobcat loader mechanic. It provides necessary servicing and adjustment procedures for the Bobcat loader and its component parts and systems. Refer to the Operation & Maintenance Manual for operating instructions, starting procedure, daily checks, etc.

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

 Check that the ROPS/FOPS (Including side screens) is in good condition and is not modified.



9. The parking brake must function correctly.



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



Enclosure door latches must open and close freely.



3. The seat belt must be correctly installed, functional and in good condition.



11. Bob-Tach® attachment mounting system wedges and linkages must function correctly and be in good condition.



4. The seat bar must be correctly adjusted, clean and lubricated.



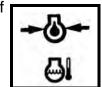
12. Safety treads must be in good condition.



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



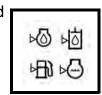
Check for correct function of indicator lamps.



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



14. Check all machine fluid levels.



7. Steering levers, hand controls and foot pedals must return to neutral (as applicable).



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



8. Check for correct function of the work lights.



16. Lubricate the loader.



FW SSL-0119 SM

17. Check the condition of the battery and cables.



23. Operate the machine and check all functions.



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



24. Check for correct function of the Bobcat Interlock Control System (BICS™) before the machine is returned to the customer.



19. Check the electrical charging system.



25. Check for proper function of front horn and back-up alarm (if equipped).



 Check tires for wear and pressure. Check tracks for wear and tension. Use only approved tires or tracks.



26. Check function or condition of all equipped options and accessories (examples: fire extinguisher, rotating beacon, lift kits, etc.).



21. 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.



22. Check for any field modification not completed.



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

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

IMPORTANT

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

I-2019-0284

A 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 AEM Safety Manual delivered with the machine gives general safety information.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shoptype service and repair work.
- The Skid-Steer Loader Operator Training Course is available through your local dealer or at Bobcat.com/ training or Bobcat.com. This course is intended to provide rules and practices of correct operation of the skid-steer loader. The course is available in English and Spanish versions.
- Service Safety Training Courses are available from your Bobcat dealer or at Bobcat.com/training or Bobcat.com. They provide information for safe and correct service procedures.
- The Skid-Steer Loader Safety Video is available from your Bobcat dealer or at Bobcat.com/training or Bobcat.com.

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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.





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.).



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 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 or air intake heater. 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



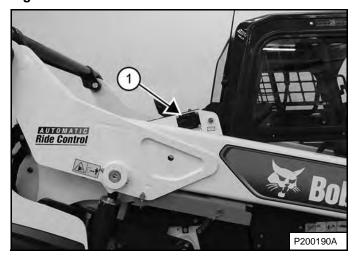
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

SERIAL NUMBER LOCATIONS

Always use the serial number of the loader when requesting service information or when ordering parts. Earlier or later models (identification made by serial number) may use different parts, or there may be different procedures to follow when performing a specific service operation.

Machine Serial Number Location

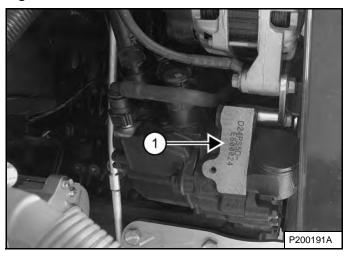
Figure 1



The loader serial number plate (Item 1) **[Figure 1]** is located on the right rear of the loader frame.

Engine Serial Number Location

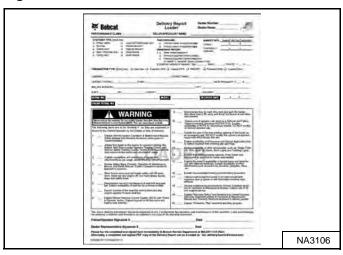
Figure 2



The engine serial number (Item 1) **[Figure 2]** is located on the left side of the engine below the alternator.

DELIVERY REPORT

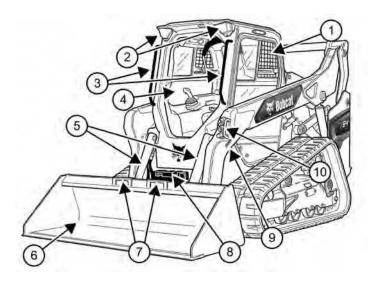
Figure 3

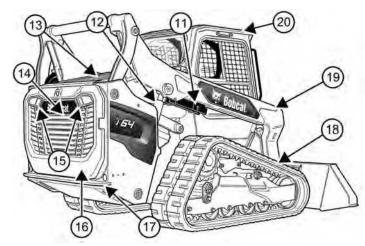


The delivery report **[Figure 3]** contains a list of items that must be explained or shown to the owner or operator by the dealer when the Bobcat loader is delivered.

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

LOADER IDENTIFICATION





REF.	DESCRIPTION
1	Operation & Maintenance Manual and Operator's Handbook
2	Front Lights
3	Grab Handles
4	Operator Seat with Seat Belt and Seat Bar
5	Tilt Cylinders
6	Bucket [A]
7	Bucket Steps
8	Step
9	Alternate Front Tie-down (Both Sides)
10	Front Auxiliary Quick Couplers

[A]	Bucket	_	Several	different	buckets	and	other
attachments are available for the Bobcat loader.						r.	

REF.	DESCRIPTION
11	Lift Arm Support Device
12	Lift Cylinder (Both Sides)
13	Rear Grille
14	Back-up Alarm
15	Rear Work Lights and Taillights
16	Rear Door
17	Rear Tie-down (Both Sides) Front Tie-down located behind Bucket
18	Track [B]
19	Lift Arm
20	Operator Cab (ROPS and FOPS) [C]

- **[B]** Track Standard tracks are shown. Track options are available for the Bobcat loader.
- [C] ROPS Roll-Over Protective Structure per ISO 3471 and FOPS Falling-Object Protective Structure per ISO 3449, Level I. Level II is available.



SAFETY & MAINTENANCE

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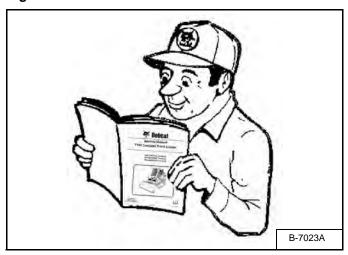
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LIFTING AND BLOCKING THE LOADER

Procedure

Figure 10-10-1



MARNING

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

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

Always park the loader on a level surface.

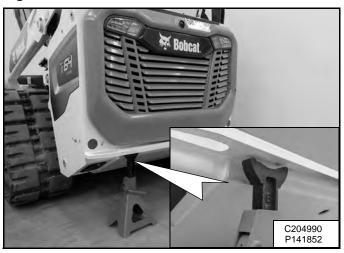


MACHINE FALLING OR MOVING CAN CAUSE SERIOUS INJURY OR DEATH

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

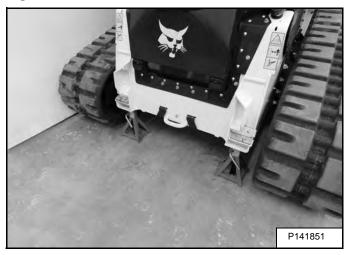
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Figure 10-10-2



Lift the rear of the loader and install jackstands under the rear area of the frame [Figure 10-10-2].

Figure 10-10-3



Lift the front of the loader and install jackstands under the frame [Figure 10-10-3].

NOTE: Make sure the jackstands do not touch the tracks. Make sure the tracks clear the floor or any obstacles.

NOTE: The lift arms are raised for photo clarity.



Lift Arm Support Device Description

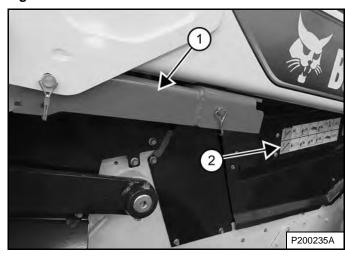
WARNING

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.

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

W-2572-0407

Figure 10-20-1



The lift arm support device (Item 1) [Figure 10-20-1] is used to support the lift arms while working on a machine with the lift arms up.

A decal (Item 2) **[Figure 10-20-1]** located on the right side of the operator cab provides instructions for installing and removing the lift arm support device.

The procedures are described in more detail on the following pages. (See Installing Lift Arm Support Device on Page 10-20-1.) and (See Removing Lift Arm Support Device on Page 10-20-3.).

A DANGER P-90328

AVOID DEATH

- Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop.
- Keep out of this area when lift arms are raised unless supported by an approved lift arm support. Replace if damaged.

D-1009-0409

1. Remove attachment from the loader.

Figure 10-20-2

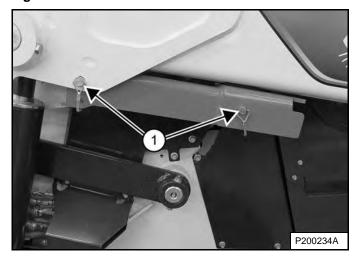


2. Put jackstands under the rear of the loader frame [Figure 10-20-2].

LIFT ARM SUPPORT DEVICE (CONT'D)

Installing Lift Arm Support Device (Cont'd)

Figure 10-20-3



3. Remove the pins (Item 1) [Figure 10-20-3] to remove the lift arm support device from the storage position.

The operator must stay in the operator seat with the seat belt fastened and the seat bar lowered until the lift arm support device is installed.

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

Figure 10-20-4



 Have a second person install the lift arm support device over the rod of one of the lift cylinders [Figure 10-20-4].

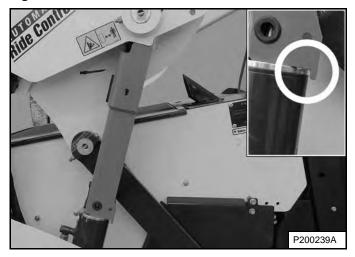
The lift arm support device must be tight against the cylinder rod.



PINCH POINT HAZARD Keep hands clear during lift arm movement.

W-3072-1019

Figure 10-20-5



Lower the lift arms slowly until the lift arm support device is held between the lift arms and the lift cylinder [Figure 10-20-5].

The tabs of the lift arm support device must go past the end of the cylinder (Inset) [Figure 10-20-5].

7. Stop the engine.

LIFT ARM SUPPORT DEVICE (CONT'D)

Removing Lift Arm Support Device



AVOID DEATH

- Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop.
- Keep out of this area when lift arms are raised unless supported by an approved lift arm support. Replace if damaged.

D-1009-0409

The operator must stay in the operator seat with the seat belt fastened and the seat bar lowered until the lift arm support device is removed and the lift arms are lowered all the way.

NOTE: The lift arm support device should remain resting on the cylinder barrel when the lift arms are raised. Service or replace the lift arm support device if the lift arm support raises with the cylinder rod.

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



PINCH POINT HAZARD
Keep hands clear during lift arm movement.

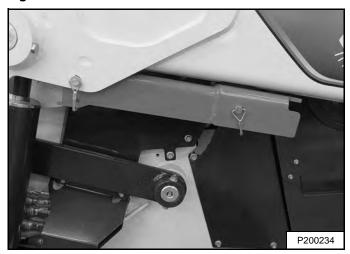
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Figure 10-20-6



- 2. Have a second person remove the lift arm support device [Figure 10-20-6] after the lift arms are all the way up.
- 3. Lower the lift arms all the way.
- 4. Stop the engine.

Figure 10-20-7



- 5. Return the lift arm support device to the storage position and install the pins [Figure 10-20-7].
- 6. Remove the jackstands.



OPERATOR CAB

Inspecting Operator Cab

The Bobcat loader has an operator cab (ROPS and FOPS) as standard equipment to protect the operator from rollover and falling objects. The seat belt must be worn for rollover protection.

- Check the cab, mounting, and hardware for damage.
- Never modify the cab.
- Replace the cab and hardware if damaged. See a dealer for parts.

ROPS – Roll-Over Protective Structure per ISO 3471 and FOPS – Falling-Object Protective Structure per ISO 3449, Level I. Level II is available.

Level I

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

Level II

Protection from falling trees, rocks: for machines involved in site clearing, overhead demolition, or forestry.

WARNING

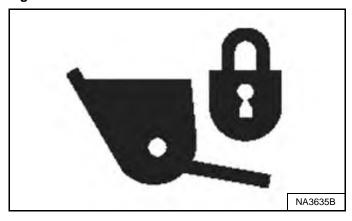
Never modify operator cab by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat Company. Changes to the cab can cause loss of operator protection from rollover and falling objects, and result in injury or death.

W-2069-0200

Cab Door Sensor Description

The cab door has a sensor installed in the door latch that deactivates the lift and tilt valves when the door is open.

Figure 10-30-1



The lift and tilt lockout icon [Figure 10-30-1] is OFF when:

- The door is closed.
- The machine is turned ON.
- The seat bar is lowered.
- The operate button is pressed.

The lift and tilt lockout icon [Figure 10-30-1] is ON when the door is open.

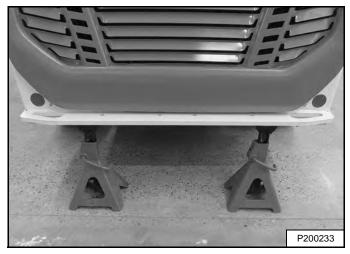
Raising Operator Cab

Always stop the engine before raising or lowering the operator cab.

- 1. Stop the loader on a level surface.
- Lower the lift arms.

If the lift arms must be up while raising the operator cab, install the lift arm support device. (See LIFT ARM SUPPORT DEVICE on Page 10-20-1.)

Figure 10-30-2



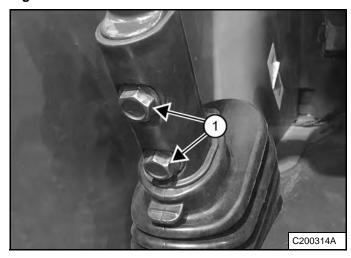
- 3. Install jackstands under the rear of the loader frame [Figure 10-30-2].
- 4. Perform the following steps if equipped with standard controls:

IMPORTANT

MACHINE DAMAGE HAZARD
Raising operator cab without disconnecting steering levers can cause electrical harness damage.

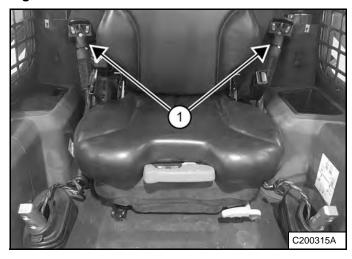
I-2400-1019

Figure 10-30-3



Remove the bolts (Item 1) [Figure 10-30-3] at the base of both steering levers. (Right side shown.) Retain the bolts for installation.

Figure 10-30-4



Place the steering levers (Item 1) [Figure 10-30-4] into a position that prevents damage as the operator cab is raised.



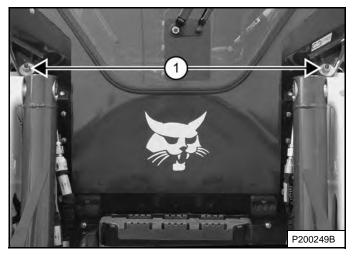
UNEXPECTED LOADER, LIFT ARM OR ATTACHMENT MOVEMENT CAUSED BY CAB CONTACT WITH CONTROLS CAN CAUSE SERIOUS INJURY OR DEATH

STOP ENGINE before raising or lowering cab.

W-2758-0908

Raising Operator Cab (Cont'd)

Figure 10-30-5



5. Remove the nuts and washers (both sides) (Item 1) [Figure 10-30-5].

Lowering Operator Cab

Always stop the engine before raising or lowering the operator cab.

Figure 10-30-6



1. Pull down on the bottom of the operator cab until stopped by the latching mechanism [Figure 10-30-6].

NOTE: The weight of the operator cab increases when equipped with options and accessories, such as: cab door, heater, and air conditioning. In these cases, the operator cab may need to be raised slightly from the latch to be able to release the latch.

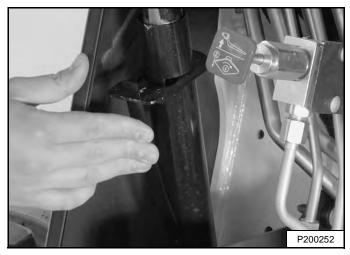


PINCH POINT CAN CAUSE INJURY
Remove your hand from the latching mechanism when the cab is past the latch stop.

W-2469-0803

Lowering Operator Cab (Cont'd)

Figure 10-30-7



 Support the operator cab [Figure 10-30-6] while a second person releases the latching mechanism [Figure 10-30-7]. Remove your hand from the latch mechanism when the operator cab is past the latch stop.

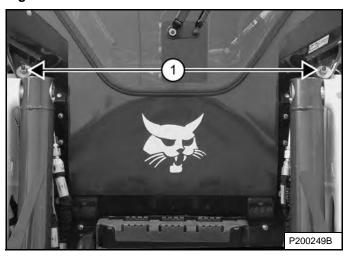
Figure 10-30-8



3. Use both hands on the grab handles to lower the operator cab all the way down [Figure 10-30-8].

NOTE: Always use the grab handles to lower the operator cab.

Figure 10-30-9



- 4. Install the washers and nuts (both sides) [Figure 10-30-9].
- 5. Tighten the nuts to $54 61 \text{ N} \cdot \text{m} (40 45 \text{ ft-lb})$ torque.
- 6. Remove the jackstands.

Special Applications Kit

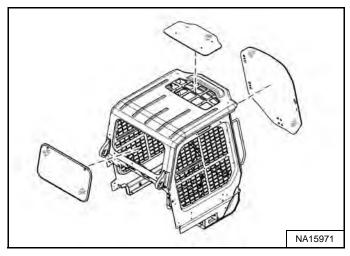


AVOID INJURY OR DEATH

Some attachment applications can cause flying debris or objects to enter front, top or rear cab openings. Install the Special Applications Kit and Top Guard (if applicable) to provide added operator protection in these applications.

W-2737-0917

Figure 10-30-10



Available for special applications to restrict material from entering cab openings. Kit includes 12,7 mm (0.5 in) thick polycarbonate front door and polycarbonate rear window [Figure 10-30-10].

Polycarbonate top window (standard item) must be installed for special applications to restrict material from entering cab openings.

See a dealer for availability.

Inspecting And Maintaining Special Applications Kit

- Inspect for cracks or damage. Replace if required.
- Prerinse with water to remove gritty materials.
- Wash with a mild household detergent and warm water.
- Use a sponge or soft cloth. Rinse well with water and dry with a clean soft cloth or rubber squeegee.

IMPORTANT

MACHINE DAMAGE HAZARD

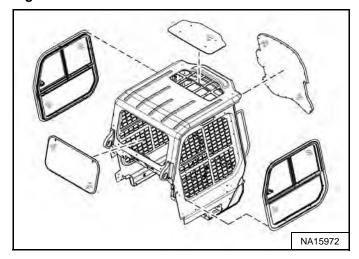
Avoid polycarbonate window damage:

- Do not use abrasive or highly alkaline cleaners.
- Do not use cleaners containing ammonia.
- · Do not clean with metal blades or scrapers.

I-2402-1019

Forestry Door And Window Kit

Figure 10-30-11



Available for special applications to prevent flying debris and objects from entering the cab. Kit includes 19,1 mm (0.75 in) thick <u>laminated</u> polycarbonate front door, polycarbonate side windows, and polycarbonate rear window [Figure 10-30-11].

Polycarbonate top window (standard item) must be installed as part of the Forestry Door And Window Kit to restrict material from entering cab openings.

Inspecting And Maintaining Forestry Door And Window Kit

- Inspect for cracks or damage. Replace if required.
- Order part number 7349287 if door frame is damaged and needs to be replaced.
- Order kit part number 7401369 if door polycarbonate is damaged and needs to be replaced.
- Prerinse with water to remove gritty materials.
- Wash with a mild household detergent and warm water.
- Use a sponge or soft cloth. Rinse well with water and dry with a clean soft cloth or rubber squeegee.

IMPORTANT

MACHINE DAMAGE HAZARD

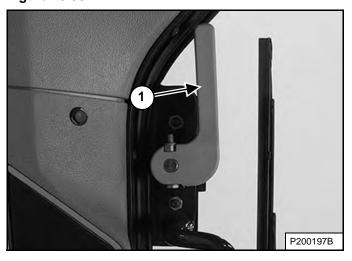
Avoid polycarbonate window damage:

- Do not use abrasive or highly alkaline cleaners.
- Do not use cleaners containing ammonia.
- Do not clean with metal blades or scrapers.

I-2402-1019

Forestry Door Emergency Exit

Figure 10-30-12



- Inspect both emergency exit levers (Item 1) [Figure 10-30-12], linkages, and hardware for loose or damaged parts.
- Repair or replace if necessary.

Loading And Unloading Machine



AVOID SERIOUS INJURY OR DEATH

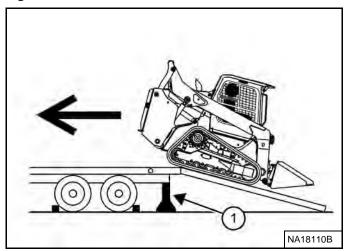
Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

W-2058-0807

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

NOTE: Always disengage the auto idle feature when loading or unloading the loader on a trailer.

Figure 10-40-1



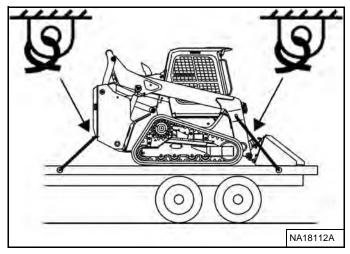
A loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle [Figure 10-40-1].

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

TRANSPORTING THE LOADER ON A TRAILER (CONT'D)

Fastening Machine To Transport Vehicle

Figure 10-40-2



Use the following procedure to fasten the Bobcat loader to the transport vehicle to prevent the loader from moving during sudden stops, or when going up or down slopes [Figure 10-40-2].

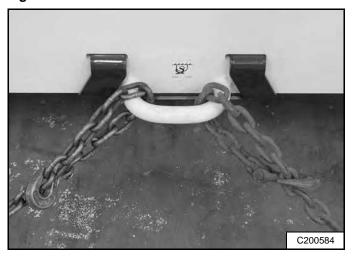
- 1. Lower the bucket or attachment to the floor.
- 2. Stop the engine.
- 3. Engage the parking brake.

Figure 10-40-3



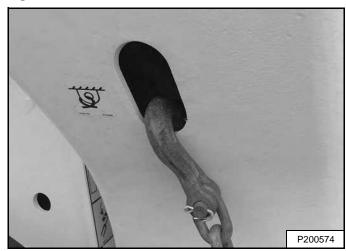
4. Install chains at both rear loader tie-down positions [Figure 10-40-3]. (Right side shown.)

Figure 10-40-4



5. Install chains at the front tie-down position [Figure 10-40-4]. (Lift arms shown raised for visual clarity.)

Figure 10-40-5



- Alternate front tie-down Install chains at both front tie-down positions on the lift arms [Figure 10-40-5]. (Right side shown.)
- 7. Fasten each end of the chain to the transport vehicle.
- 8. Use chain binders to tighten the chains.

TOWING THE LOADER

Procedure

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

- The loader can be lifted onto a transport vehicle.
- The 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 loader is skidded.

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



REMOTE START TOOL (SERVICE TOOL) KIT - 7217666

Description

The Remote Start Tool (Service Tool) Kit is a replacement tool for MEL1563 Remote Start Tool and MEL1400B - BOSS® Diagnostic Tool.

The Remote Start Tool (Service Tool) Kit, P/N 7217666, can be used to service newer loaders using the supplied harness P/N 6689747.

A computer can be connected to the Remote Start Tool (Service Tool) for diagnostics and software updates using the computer harness P/N 6689746 in conjunction with the loader harness.

REMOTE START TOOL (SERVICE TOOL) KIT - 7217666 (CONT'D)

Remote Start Tool (Service Tool) - 7022042

Tools that will be needed to complete the following steps are:

Order from Bobcat Parts P/N: 7217666 - Remote Start Tool (Service Tool) Kit

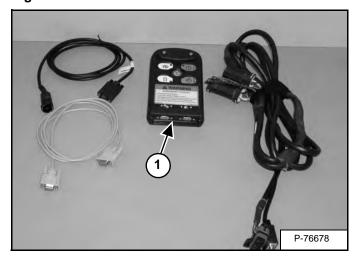
Kit Includes:

7022042 - Remote Start Tool (Service Tool) 6689747 - Loader Service Tool Harness

6689746 - Computer Service Tool Harness

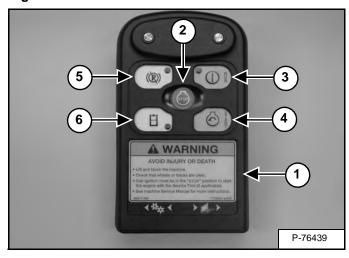
6689745 - BOSS® Service Tool Harness

Figure 10-60-1



The Remote Start Tool (Item 1) [Figure 10-60-1] is required when the service technician is testing the hydraulic system, adjusting the steering linkage, and electrical diagnostics.

Figure 10-60-2



The Remote Start Tool (Service Tool) (Item 1) [Figure 10-60-2] has five buttons.

The STOP button (Item 2) [Figure 10-60-2] is used to stop the Remote Start Tool (Service Tool) from communicating and stop the loader engine.

The RUN button (Item 3) [Figure 10-60-2] is used to turn the Remote Start Tool (Service Tool) on and activates the loader electrical system. The button will illuminate to indicate the service tool is active.

The START button (Item 4) [Figure 10-60-2] is used to start the loader engine.

The traction lock button (Item 5) **[Figure 10-60-2]** is used to turn traction lock ON or OFF. Push the button and the button will illuminate indicating the traction lock is disabled in which the wheels or tracks are able to turn.

The auxiliary button (Item 6) [Figure 10-60-2] is used to activate the auxiliary hydraulics. The button will illuminate to indicate the auxiliary hydraulics are active. Pressing the button a second time will turn the flow OFF. The button is used when testing pressures and flow rate.

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