

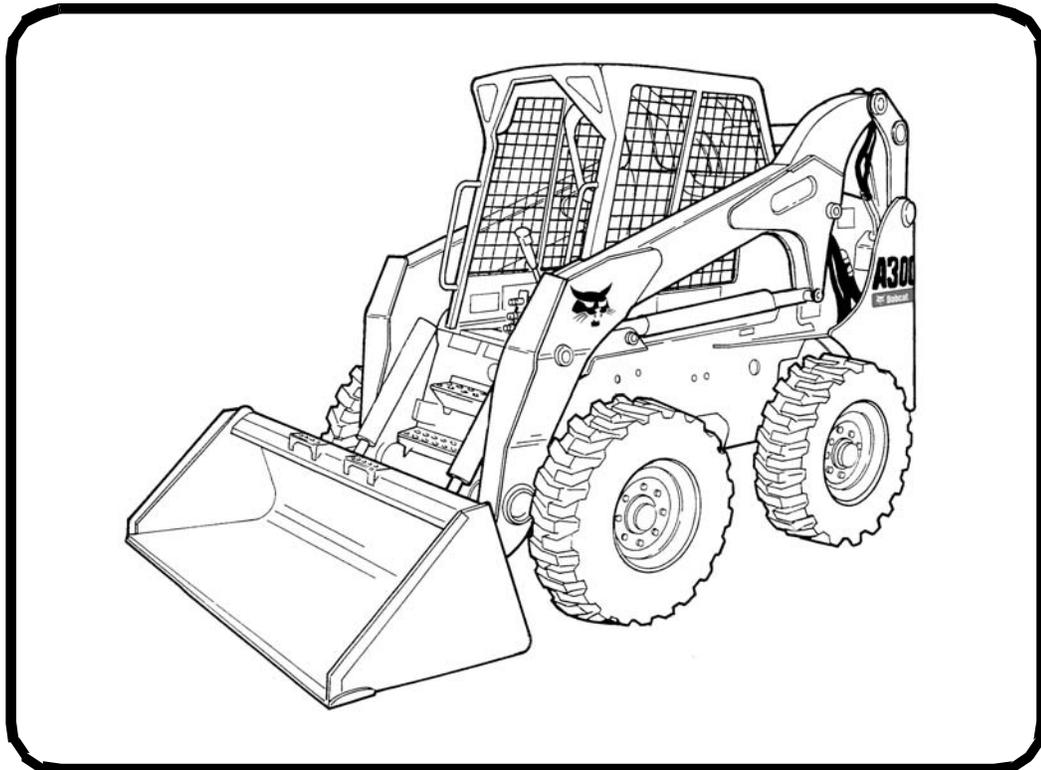


Bobcat®

Service Manual

A300 All Wheel Steer

S/N A5GW11001 - A5GW19999
S/N A5GY11001 - A5GY19999



**EQUIPPED WITH
BOBCAT INTERLOCK**

CONTROL SYSTEM (BICS) | 805 pages at:

<https://www.arepairmanual.com/downloads/bobcat-a300-all-wheel-steer-loader-service-repair-workshop-manual-a5gw11001-a5gy11001/>

6986684 (5-08)

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Product: Bobcat A300 All Wheel Steer Loader Service Repair Workshop Manual A5GW11001-A5GY11001
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MAINTENANCE SAFETY



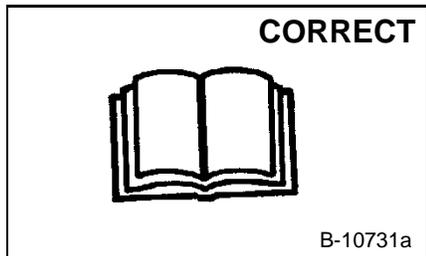
WARNING

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

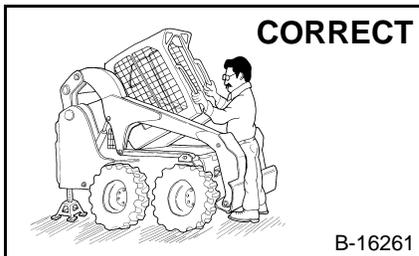


Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



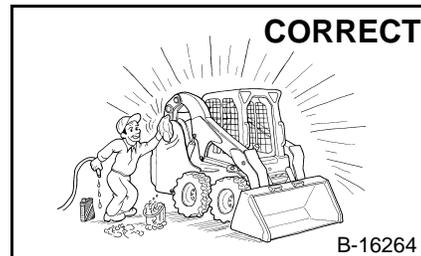
B-10731a

⚠ Never service the Bobcat Skid-Steer Loader without instructions.



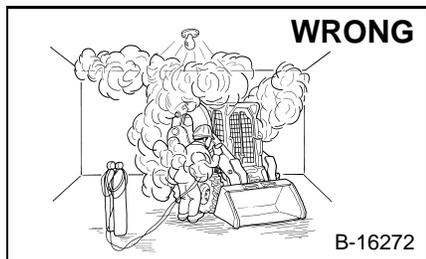
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⚠ Use the correct procedure to lift or lower operator cab.



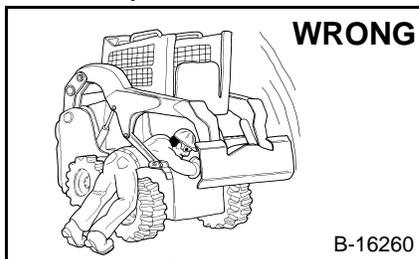
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⚠ Cleaning and maintenance are required daily.



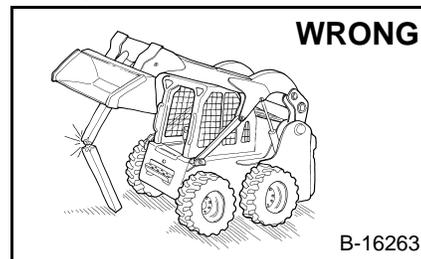
B-16272

- ⚠ 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.



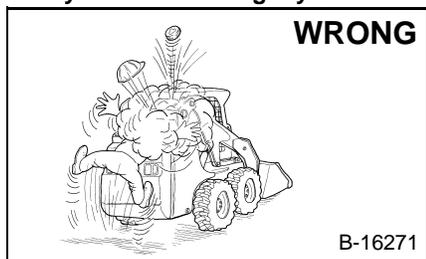
B-16260

⚠ 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.



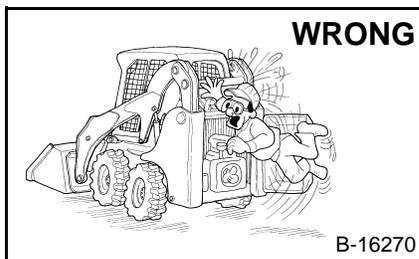
B-16263

- ⚠ 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.



B-16271

- ⚠ 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.



B-16270

- ⚠ 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.



B-6589

- ⚠ Lead-acid batteries produce flammable and explosive gases.
- ⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
- ⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL**. Always use genuine Bobcat replacement parts. The Service Safety Training Course is available from your Bobcat dealer.



Bobcat®

ALPHABETICAL INDEX

ACCESS PANEL (INSIDE)	50-01	FINAL DRIVE TRANSMISSION (CHAINCASE) ..	10-01
AIR CLEANER	70-01	FLYWHEEL AND HOUSING	70-01
AIR CLEANER SERVICE	10-01	FLYWHEEL RPM SENSOR	60-01
AIR CONDITIONING SYSTEM FLOW	80-01	FRONT AUXILIARY HYDRUALIC COUPLER	
ALTERNATOR	60-01	BLOCK	20-01
		FUEL SYSTEM.....	10-01, 70-01
BATTERY	60-01	FUEL TANK	50-01
BLOWER FAN	80-01		
BOBCAT CONTROLLER (AWS).....	60-01	HEATER COIL	80-01
BOBCAT CONTROLLER (AWS) (SJC)		HEATER VALVE	80-01
(DRIVE PLUS)	60-01	HIGH FLOW VALVE	20-01
BOBCAT CONTROLLER (MAIN).....	60-01	HUB	40-01
BOBCAT INTERLOCK CONTROL		HYDRAULIC CONNECTION SPECS	SPEC-01
SYSTEM (BICS)	60-01	HYDRAULIC CONTROL VALVE	20-01
BOB-TACH (HAND LEVER)	10-01, 50-01	HYDRAULIC FLUID RESERVOIR	20-01
BOB-TACH (POWER - OPTION)	10-01, 50-01	HYDRAULIC/HYDROSTATIC FILTERS	20-01
BOB-TACH (POWER) BLOCK.....	20-01	HYDRAULIC/HYDROSTATIC FLUID	
BRAKE	40-01	SPECIFICATIONS	SPEC-01
BUCKET POSITION VALVE	20-01	HYDRAULIC/HYDROSTATIC SYSTEM.....	10-01
		HYDRAULIC PUMP	20-01
CAB DOOR.....	50-01	HYDRAULIC PUMP (HI FLOW)	20-01
CALIBRATION	60-01	HYDRAULIC SYSTEM INFORMATION	20-01
CAMSHAFT AND TIMING GEARS.....	70-01	HYDROSTATIC MOTOR	30-01
CASE DRAIN FILTER	30-01	HYDROSTATIC MOTOR (TWO-SPEED)	30-01
CHAINCASE	40-01	HYDROSTATIC MOTOR CARRIER	30-01
CHARGE PRESSURE	30-01	HYDROSTATIC PUMP	30-01
COMPRESSOR	80-01	HYDROSTATIC SYSTEM INFORMATION	30-01
CONDENSER	80-01		
CONTROL PANEL	50-01	INSTRUMENT PANEL.....	60-01
CONTROL PANEL SETUP	60-01		
CONVERSIONS	SPEC-01	JOYSTICK CONTROL	50-01
CRANKSHAFT AND PISTONS.....	70-01		
CYLINDER HEAD.....	70-01	LIFT ARMS.....	50-01
CYLINDER (BOB-TACH)	20-01	LIFT ARM BY-PASS CONTROL VALVE	20-01
CYLINDER (LIFT)	20-01	LIFT ARM SUPPORT DEVICE	10-01
CYLINDER (STEERING)	20-01	LIFTING AND BLOCKING THE LOADER.....	10-01
CYLINDER (TILT)	20-01	LIGHTS	60-01
		A300 LOADER SPECIFICATIONS.....	SPEC-01
DIAGNOSTICS SERVICE CODES	60-01	LOADER STORAGE & RETURN TO SERVICE	10-01
DRIVE BELT	30-01	LUBRICATION SYSTEM.....	70-01
DRIVE COMPONENTS	40-01	LUBRICATING THE LOADER.....	10-01
ELECTRICAL / HYDRAULIC CONTROLS		MAIN RELIEF VALVE	20-01
REFERENCE	60-01	MUFFLER.....	70-01
ELECTRICAL SYSTEM INFORMATION	60-01		
ENGINE COOLING SYSTEM.....	10-01, 70-01	OIL COOLER.....	20-01
ENGINE INFORMATION	70-01	OPERATOR CAB	10-01, 50-01
ENGINE LUBRICATION SYSTEM.....	10-01	OPERATOR SEAT (SUSPENSION).....	50-01
ENGINE SPEED CONTROL	70-01		
EVAPORATOR.....	80-01	PASSWORD SETUP (IF EQUIPPED WITH KEYLESS	
EVAPORATOR/HEATER UNIT	80-01	START)	60-01
EXHAUST GAS RECIRCULATION (EGR)		PIVOT PINS	10-01
SYSTEM	80-01		
EXPANSION VALVE	80-01		

ALPHABETICAL INDEX (CONT'D)

REAR AUXILIARY DIVERTER VALVE	20-01
REAR DOOR	50-01
REAR GRILL	50-01
RECEIVER/DRIER	80-01
REGULAR MAINTENANCE	80-01
REMOTE START TOOL	10-01
REMOTE START TOOL (SERVICE TOOL)	10-01
SEAT BAR	50-01
SEAT BAR SENSOR	60-01
SERVICE PC (LAPTOP COMPUTER)	60-01
SERVICE SCHEDULE	10-01
SPARK ARRESTOR MUFFLER	10-01
SPEED SENSOR	60-01
STOPPING THE ENGINE AND LEAVING THE LOADER	10-01
STARTER	60-01
STEERING BLOCK	40-01
STEERING DRIFT COMPENSATION	60-01
STEERING SOLENOIDS	60-01
SYSTEM CHARGING AND RECLAMATION	80-01
THERMOSTAT	80-01
TIRE MAINTENANCE	10-01
TORQUE SPECIFICATIONS FOR BOLTS	SPEC-01
TOWING THE LOADER	10-01
TRACTION LOCK	60-01
TRANSPORTING THE LOADER ON A TRAILER ..	10-01
TROUBLESHOOTING	70-01
TURBOCHARGER	80-01
WHEEL POSITION SENSORS	60-01
WINDOW (FRONT DOOR)	50-01
WINDOW (REAR)	50-01
WINDOW (SIDE)	50-01
WINDOW (TOP)	50-01

CONTENTS

FOREWORD.....	II
SAFETY INSTRUCTIONS	V
SERIAL NUMBER LOCATIONS	IX
DELIVERY REPORT.....	X
LOADER IDENTIFICATION	XI
SAFETY AND MAINTENANCE.....	10-01
HYDRAULIC SYSTEM	20-01
HYDROSTATIC SYSTEM.....	30-01
DRIVE SYSTEM	40-01
MAIN FRAME	50-01
ELECTRICAL SYSTEM & ANALYSIS.....	60-01
ENGINE SERVICE	70-01
HEATING, VENTILATION, AIR CONDITIONING	80-01
SPECIFICATIONS.....	SPEC-01

**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**HYDROSTATIC
SYSTEM**

**DRIVE
SYSTEM**

MAIN FRAME

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**

HVAC

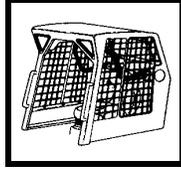
SPECIFICATIONS

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:

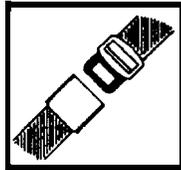
1. Check that the ROPS/FOPS (Including side screens) is in good condition and is not modified.



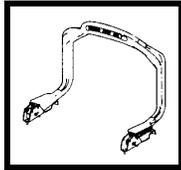
2. Check that ROPS mounting hardware is tightened and is Bobcat approved.



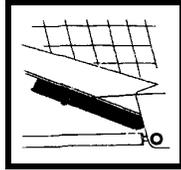
3. The seat belt must be correctly installed, functional and in good condition.



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



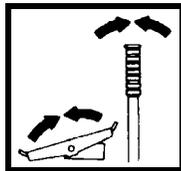
5. Check lift arm support device, replace if damaged.



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



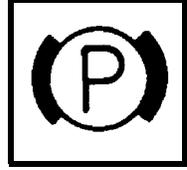
7. Steering levers and foot pedals must return to neutral.



8. Check for correct function of the work lights



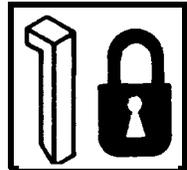
9. The parking brake must function correctly.



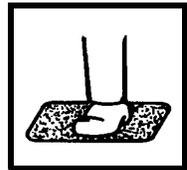
10. Enclosure door latches must open and close freely.



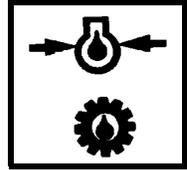
11. Bob-Tach wedges and linkages must function correctly and be in good condition.



12. Safety treads must be in good condition.



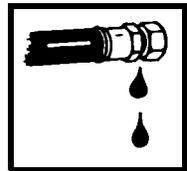
13. Check for correct function of indicator lamps (Optional on some models).



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



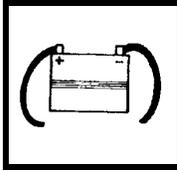
15. Inspect for fuel, oil or hydraulic fluid leaks.



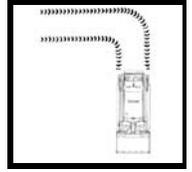
16. Lubricate the loader.



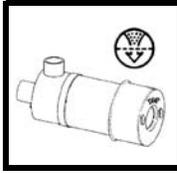
17. Check the condition of the battery and cables.



22. Operate the loader and check all functions.



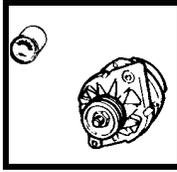
18. Inspect the air cleaner for damage or leaks. Check the condition of the element.



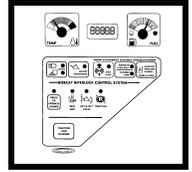
23. Check for any field modification not completed.



19. Check the electrical charging system.



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



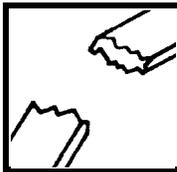
20. Check tires for wear and pressure.



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



21. Inspect for loose or broken parts or connections.



**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



WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

IMPORTANT

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

I-2019-0284

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 shop-type service and repair work.
- The Skid-Steer Loader 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 Skid-Steer Loader. The course is available in English and Spanish versions.
- Service Safety Training Courses are available from your Bobcat dealer or at www.training.bobcat.com or www.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 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)

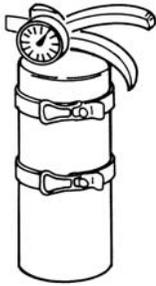
Welding And Grinding

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



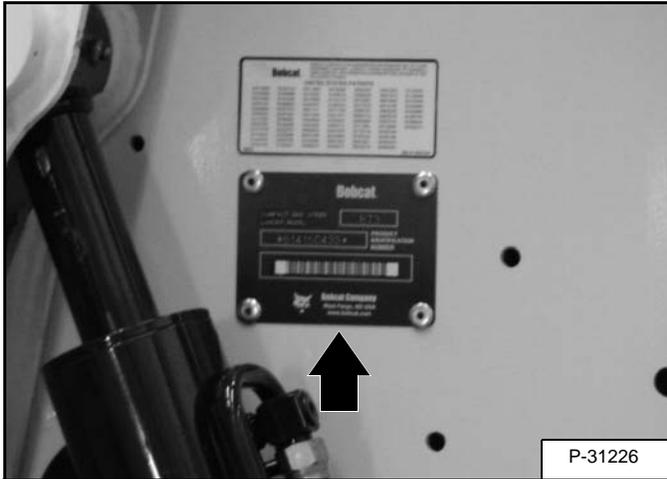
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

SERIAL NUMBER LOCATIONS

Always use the serial number of the loader when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

Loader Serial Number

Figure 1



The loader serial number plate is located on the outside of the loader frame [Figure 1].

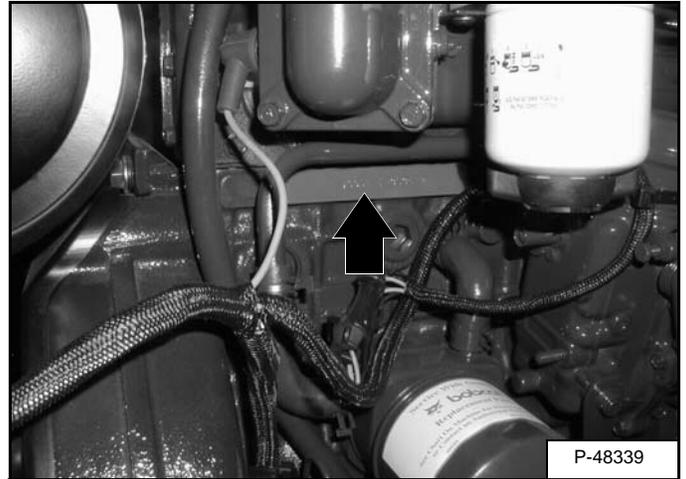
Explanation of loader Serial Number:

XXXX	XXXXX
Model 1.-Model/ Engine Combination	Model 2.-Production Sequence (Series)

1. The four digit Model/Engine Combination Module number identifies the model number and engine combination.
2. The five digit Production Sequence Number identifies the order which the loader is produced.

Engine Serial Number

Figure 2



The engine serial number is located on the engine block [Figure 2].

DELIVERY REPORT

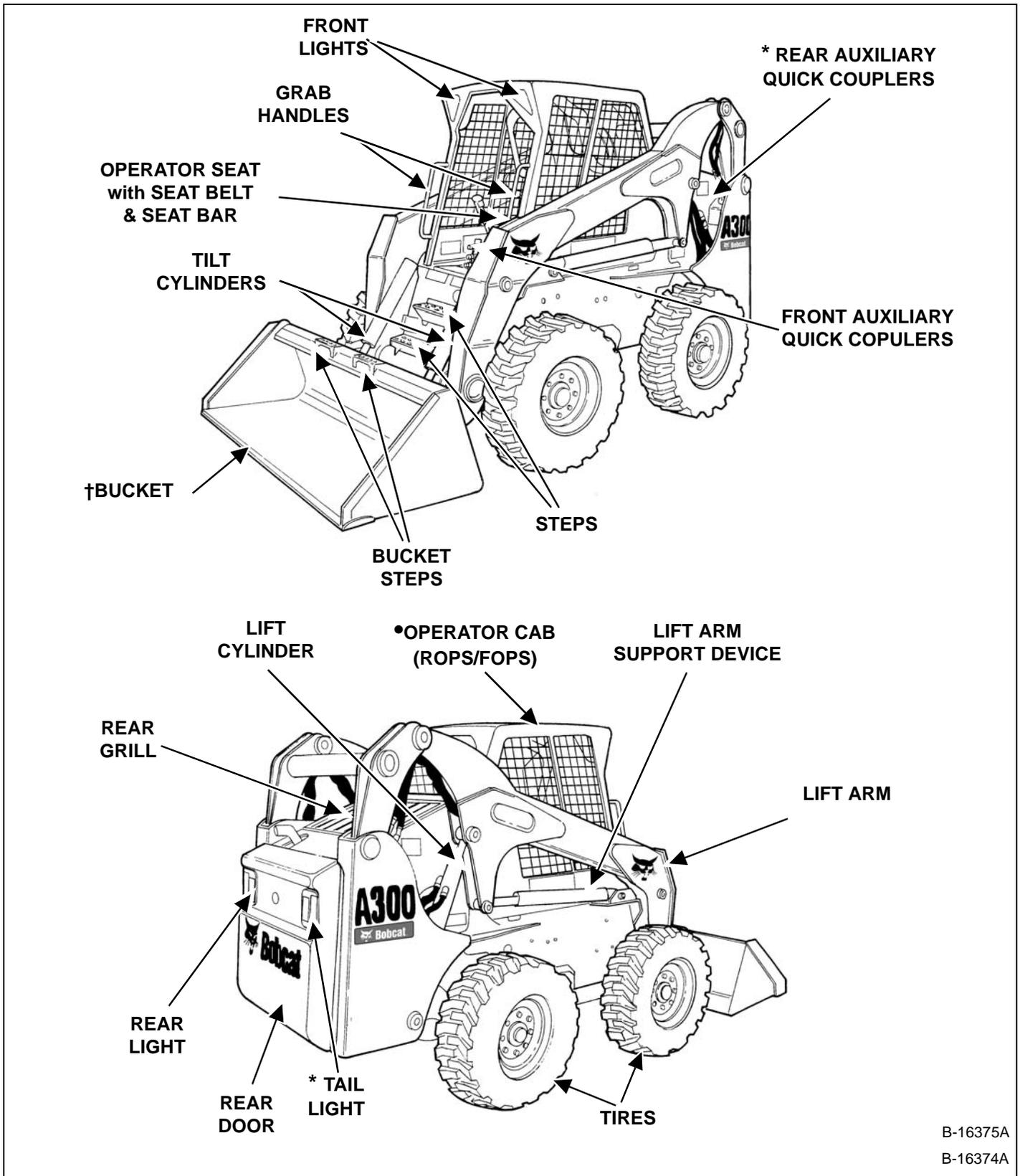
Figure 3

The diagram shows a form layout with the following sections:

- Top Right:** A box titled "DELIVERY REPORT" containing two columns of horizontal lines for text entry.
- Left Side:** A section with a black header labeled "WARNING" followed by several lines of horizontal lines.
- Bottom Right:** A small box containing the code "B-16315".

The Delivery Report must be filled out by the dealer and signed by the owner or operator when the Bobcat loader is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely **[Figure 3]**.

LOADER IDENTIFICATION



B-16375A
B-16374A

• 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 II is available.

† Many different buckets and other attachments are available.

* Option or Accessory, not standard equipment.



Bobcat®

SAFETY AND MAINTENANCE

AIR CLEANER SERVICE 10-80-1
 Replacing Filter Elements 10-80-1

BOB-TACH (HAND LEVER) 10-140-1
 Inspection And Maintenance 10-140-1

BOB-TACH (POWER)..... 10-141-1
 Inspection And Maintenance 10-141-1

ENGINE COOLING SYSTEM 10-90-1
 Checking Level 10-90-2
 Cleaning..... 10-90-1
 Removing And Replacing Coolant..... 10-90-2

ENGINE LUBRICATION SYSTEM 10-110-1
 Checking And Adding Engine Oil..... 10-110-1
 Engine Oil Chart..... 10-110-1
 Removing And Replacing Oil And Filter..... 10-110-2

FINAL DRIVE TRANSMISSION (CHAINCASE) 10-130-1
 Checking And Adding Oil..... 10-130-1
 Removing Oil From The Chaincase..... 10-130-1

FUEL SYSTEM 10-100-1
 Biodiesel Blend Fuel 10-100-1
 Filling The Fuel Tank 10-100-2
 Fuel Filter..... 10-100-2
 Fuel Specifications..... 10-100-1
 Removing Air From The Fuel System 10-100-3

HYDRAULIC / HYDROSTATIC SYSTEM 10-120-1
 Breather Cap 10-120-6
 Checking And Adding Fluid 10-120-1
 Hydraulic / Hydrostatic Fluid Chart 10-120-1
 Removing And Replacing Case Drain Filters..... 10-120-4
 Removing And Replacing Hydraulic Charge Filter..... 10-120-5
 Removing And Replacing Hydraulic Fluid 10-120-2
 Removing And Replacing Hydraulic / Hydrostatic Filter 10-120-3

LIFT ARM SUPPORT DEVICE 10-20-1
 Installing..... 10-20-1
 Removing..... 10-20-2

LIFTING AND BLOCKING THE LOADER 10-10-1
 Procedure 10-10-1

Continued On Next Page

SAFETY AND MAINTENANCE (CONT'D)

LOADER STORAGE AND RETURN TO SERVICE	10-190-1
Return to Service	10-190-1
Storage	10-190-1
LUBRICATING THE LOADER	10-150-1
Lubrication Locations	10-150-1
OPERATOR CAB	10-30-1
Cab Door Sensor (If Equipped)	10-30-4
Description	10-30-1
Lowering	10-30-3
Raising	10-30-2
Special Applications Kit	10-30-4
Special Applications Kit Inspection And Maintenance	10-30-4
PIVOT PINS	10-180-1
Inspection And Maintenance	10-180-1
REMOTE START TOOL KIT-MEL1563	10-60-1
Remote Start Procedure	10-60-4
Remote Start Tool - MEL1563	10-60-1
Service Tool Harness Communicator - MEL1566	10-60-3
Service Tool Harness Control - MEL1565	10-60-2
REMOTE START TOOL (SERVICE TOOL) KIT - 6689779	10-61-1
Computer Service Tool Harness - 6689746	10-61-4
Description	10-61-1
Loader Service Tool Harness - 6689747	10-61-3
Remote Start Procedure	10-61-5
Remote Start Tool (Service Tool) - 6689778	10-61-2
SERVICE SCHEDULE	10-70-1
Chart	10-70-1
SPARK ARRESTOR MUFFLER	10-170-1
Cleaning Procedure	10-170-1
STOPPING THE ENGINE AND LEAVING THE LOADER	10-200-1
Emergency Exit	10-200-2
Procedure	10-200-1
TIRE MAINTENANCE	10-160-1
Mounting	10-160-2
Rotation	10-160-1
Wheel Nuts	10-160-1

Continued On Next Page

SAFETY AND MAINTENANCE (CONT'D)

TOWING THE LOADER 10-50-1
 Procedure 10-50-1

TRANSPORTING LOADER ON A TRAILER 10-40-1
 Fastening 10-40-1
 Loading And Unloading 10-40-1

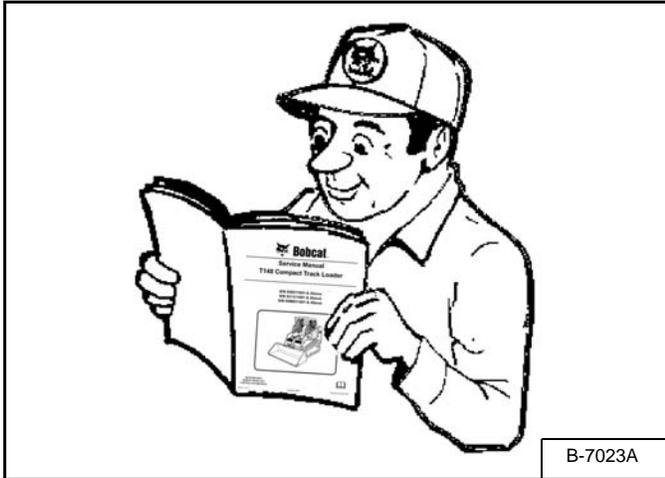


Bobcat®

LIFTING AND BLOCKING THE LOADER

Procedure

Figure 10-10-4



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 & Installation, Disassembly & Assembly, etc. completely to become familiar with the procedure before beginning [Figure 10-10-4].

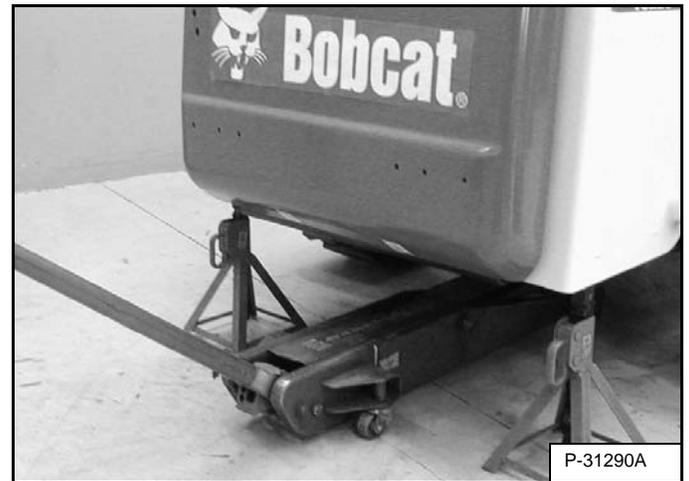
Always park the loader on a level surface.



Put jackstands under the front axles and rear corners of the frame before running the engine for service. Failure to use jackstands can allow the machine to fall or move and cause injury or death.

W-2017-0286

Figure 10-10-5



Lift the rear of the loader and install jackstands [Figure 10-10-5].

Figure 10-10-6



Lift the front of the loader and put jackstands under the axle tubes [Figure 10-10-6].

NOTE: Make sure the jackstands do not touch the tires.



Bobcat®

LIFT ARM SUPPORT DEVICE

Installing

! WARNING

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

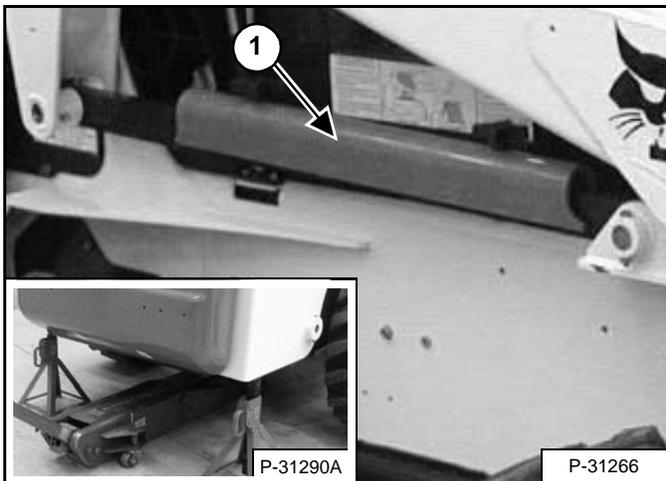
Service lift arm support device if damaged or if parts are missing. Using a damaged lift arm support or with missing parts can cause lift arms to drop causing injury or death.

W-2572-0407

<h2>! DANGER</h2> <p>AVOID DEATH</p> <ul style="list-style-type: none">• 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. <p><small>67116 SW 6717343A enUS</small></p>	
---	--

Remove attachment from the loader.

Figure 10-20-1



Put jackstands under the rear corners of the loader frame (Inset) [Figure 10-20-1].

Remove the lift arm support device (Item 1) [Figure 10-20-1] 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.

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

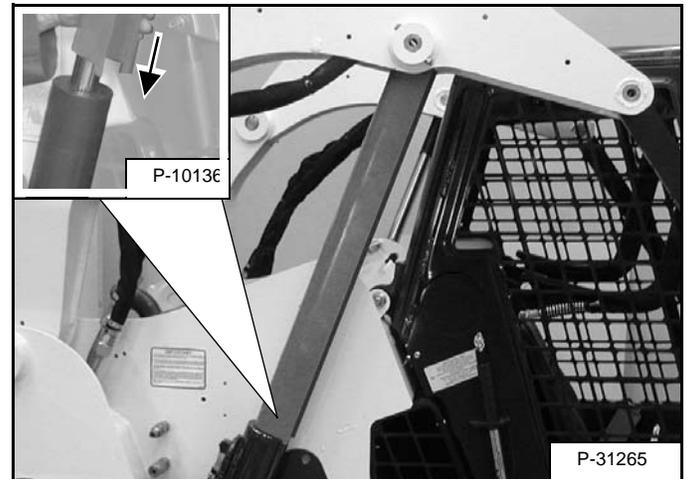
Figure 10-20-2



Have a second person install the lift arm support device over the rod of one of the lift cylinders [Figure 10-20-2].

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

Figure 10-20-3



Lower the lift arms slowly until the lift arm support device is held between the lift arms and the lift cylinder [Figure 10-20-3]. The tabs of the lift arm support device must go under the cylinder (Inset) [Figure 10-20-3].

LIFT ARM SUPPORT DEVICE (CONT'D)

Removing

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

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

Have a second person remove the lift arm support device.

Lower the lift arms all the way and stop the engine.

Return the lift arm support device to the storage position and secure with clamping knobs.

Remove the jackstands.

OPERATOR CAB

Description

The Bobcat loader has an operator cab (ROPS and FOPS) as standard equipment to protect the operator from rollover and falling objects. Check with your dealer if the operator cab has been damaged. The seat belt must be worn for roll over protection.

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 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 site services.

Level II - Protection from falling trees, rocks; for machines involved in site clearing, overhead demolition or forestry.

OPERATOR CAB (CONT'D)

Raising

⚠ 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

⚠ DANGER

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.



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Figure 10-30-1

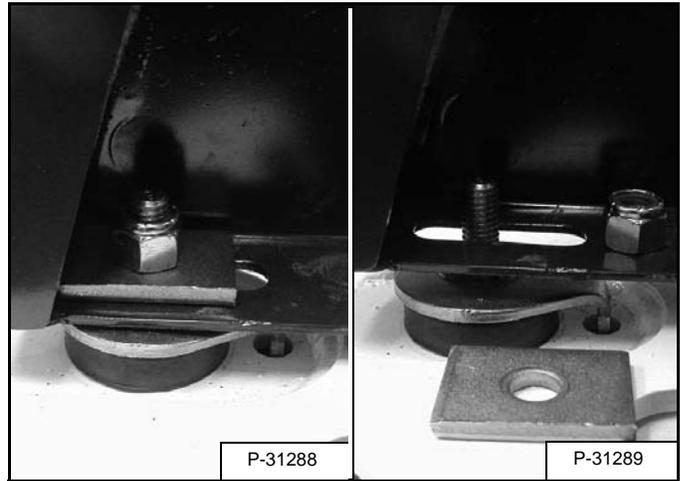


Always stop the engine before raising or lowering the cab.

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 Installing on Page 10-20-1.)

Install jackstands under the rear of the loader frame [Figure 10-30-1].

Figure 10-30-2



Remove the nuts and plates [Figure 10-30-2] (both sides).

Figure 10-30-3



Lift on the grab handle and bottom of the operator cab slowly until the cab is all the way up and the latching mechanism engages [Figure 10-30-3].

Advanced Control System (ACS)

⚠ WARNING



Unexpected loader, lift arm or attachment movement caused by cab contact with steering levers can cause serious injury or death.

BEFORE RAISING OR LOWERING CAB:

- Stop engine

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OPERATOR CAB (CONT'D)

Lowering



WARNING

PINCH POINT CAN CAUSE INJURY

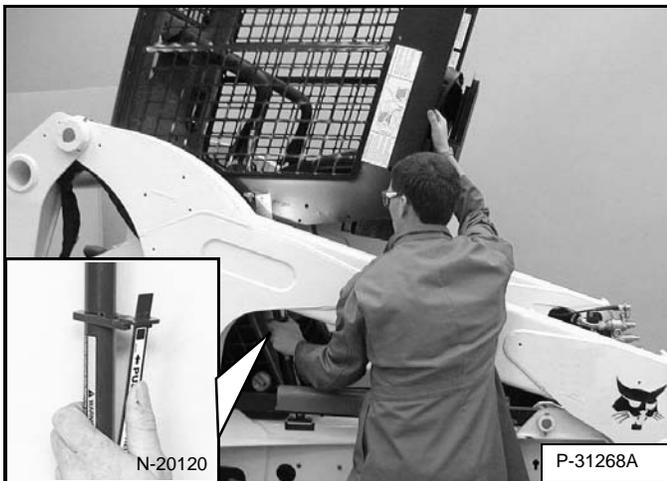
Remove your hand from the latching mechanism when the cab is past the latch stop.

W-2469-0803

Always stop the engine before raising or lowering the cab.

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

Figure 10-30-4

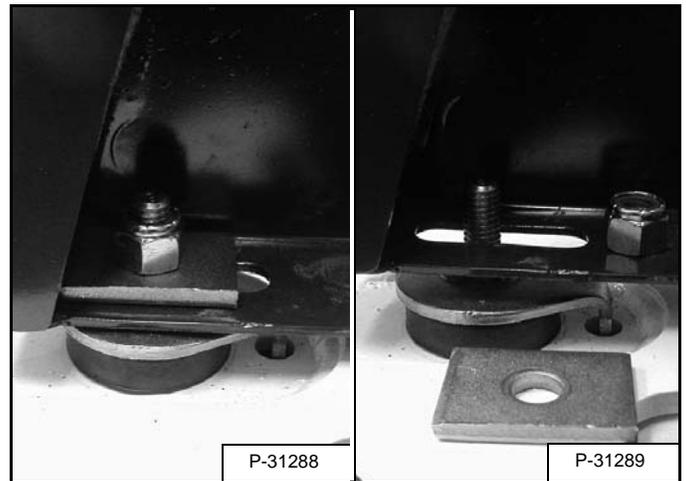


Pull down on the bottom of the operator cab until it stops at the latching mechanism [Figure 10-30-4].

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

Support the cab and release the latching mechanism (Inset) [Figure 10-30-4]. Remove your hand from the latch mechanism when the cab is past the latch stop. Use both hands to lower the cab all the way down.

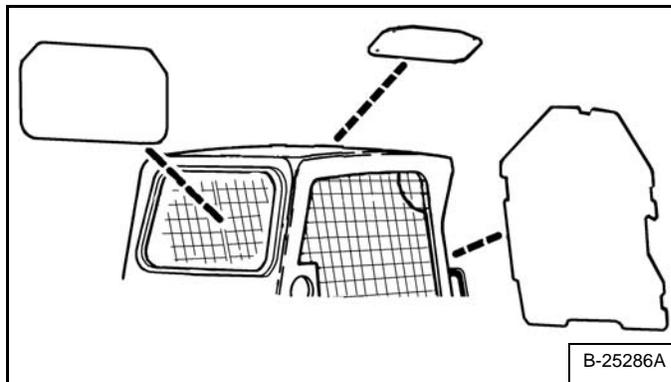
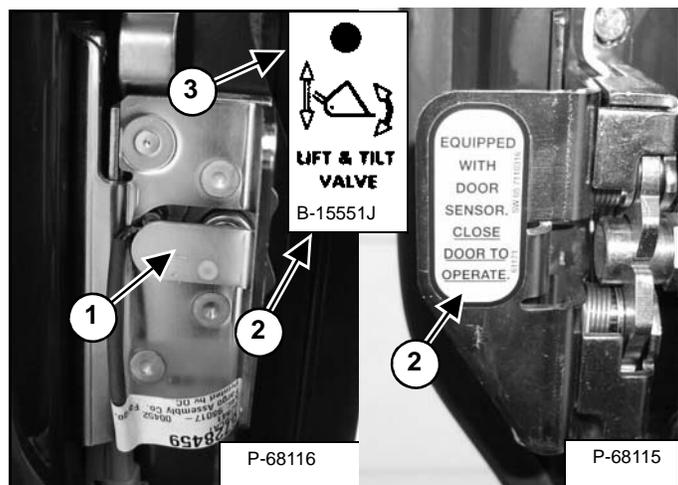
Figure 10-30-5



Install the plates and nuts [Figure 10-30-5] (both sides).

Tighten the nuts to 40-50 ft.-lb. (54-68 N•m) torque.

Figure 10-30-6



Available for special applications to restrict material from entering cab openings. Kit includes 1/2 inch thick polycarbonate front door, top and rear windows [Figure 10-30-8].

The cab door has a sensor (Item 1) [Figure 10-30-6] installed which deactivates the lift and tilt valves when the door is open.

See your Bobcat dealer for availability.

A decal is located on the latch mechanism (Item 2) [Figure 10-30-6].

Special Applications Kit Inspection And Maintenance

The LIFT & TILT VALVE light (Item 3) [Figure 10-30-6] will be ON when the door is closed and the PRESS TO OPERATE LOADER button is pressed

- Inspect for cracks or damage. Replace if required.
- Pre-rinse 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.
- Do not use abrasive or highly alkaline cleaners.
- Do not clean with metal blades or scrapers.