

Product: 2010 Bobcat S160 Skid-Steer Loader Service Repair Workshop Manual(S/N A3L311001 & Above,S/N A3L411001 & Above  
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**Bobcat**®

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# Service Manual

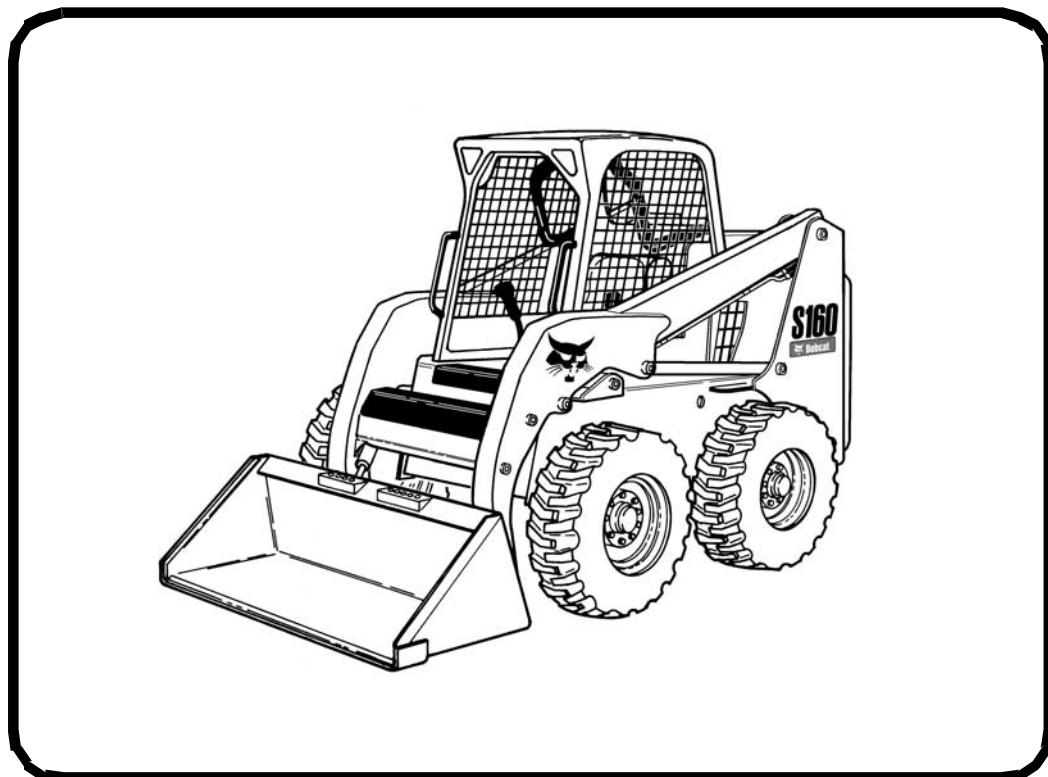
## S160 Skid-Steer Loader

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**S/N A3L311001 & Above**

**S/N A3L411001 & Above**

**S/N AEYN11001 & Above**



**EQUIPPED WITH  
BOBCAT INTERLOCK**

**CONTROL SYSTEM (RIGST™)** 1006 pages at:

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# MAINTENANCE SAFETY



## WARNING

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

W-2003-0807

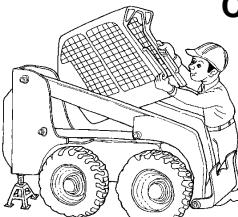
**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

### CORRECT



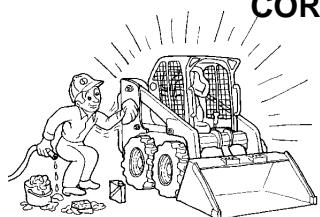
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### CORRECT



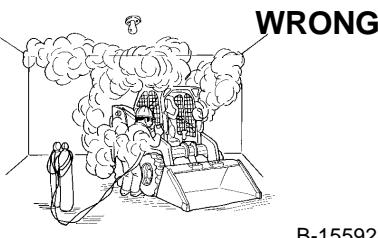
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### CORRECT



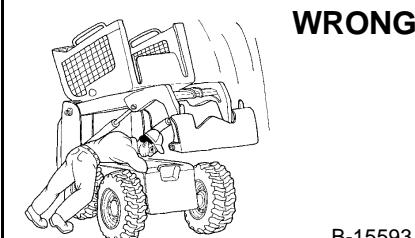
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⚠ Never service the Bobcat Skid-Steer Loader without instructions.



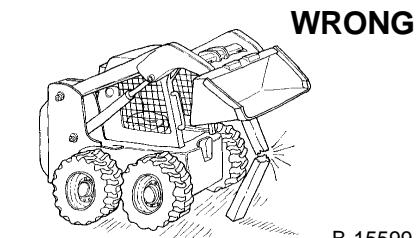
B-15592

⚠ 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-15593

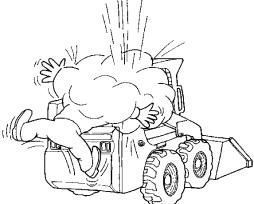
⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace it if damaged.



B-15599

⚠ Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.  
⚠ Never modify equipment or add attachments not approved by Bobcat Company.

### WRONG



B-15600

⚠ 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-15601

⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.  
⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.  
⚠ Keep rear door closed except for service. Close and latch door before operating the loader.

### WRONG



B-6589

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

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

MSW08-0409



**Bobcat**®

## ALPHABETICAL INDEX

|   |              |   |              |
|---|--------------|---|--------------|
| ACCESS PANEL (INSIDE) .....                     | 50-01        | ENGINE COOLING SYSTEM .....   | 10-01        |
| ACCESS PANEL (INSIDE) (SJC) .....               | 50-01        | ENGINE COOLING SYSTEM .....   | 70-01        |
| AIR CLEANER .....                               | 70-01        | ENGINE LUBRICATION SYSTEM .....   | 10-01        |
| AIR CLEANER SERVICE .....                       | 10-01        | ENGINE INFORMATION .....  | 70-01        |
| AIR CONDITIONING SYSTEM FLOW .....              | 80-01        | ENGINE SPEED CONTROL .....  | 70-01        |
| ALTERNATOR .....                                | 60-01        | ENGINE SPEED CONTROL (SJC) .....  | 70-01        |
| BACK-UP ALARM SYSTEM .....                      | 60-01        | EVAPORATOR .....  | 80-01        |
| BATTERY .....                                   | 60-01        | EVAPORATOR / HEATER UNIT .....  | 80-01        |
| BLOWER FAN .....                                | 80-01        | EXHAUST GAS RECIRCULATION (EGR) SYSTEM .....                                | 70-01        |
| BOBCAT CONTROLLER (ACS) .....                   | 60-01        | EXPANSION VALVE .....   | 80-01        |
| BOBCAT CONTROLLER (GATEWAY AND AUXILIARY) ..... | 60-01        | FINAL DRIVE TRANSMISSION (CHAINCASE) .....                                  | 10-01        |
| BOBCAT CONTROLLER (SJC) (DRIVE) .....           | 60-01        | FLYWHEEL AND HOUSING .....  | 70-01        |
| BOBCAT INTERLOCK CONTROL SYSTEM (BICS) .....    | 60-01        | FLYWHEEL RPM SENSOR .....   | 60-01        |
| BOB-TACH (HAND LEVER) .....                     | 10-01, 50-01 | FRONT AUXILIARY HYDRAULIC COUPLER BLOCK .....                               | 20-01        |
| BOB-TACH (POWER) .....                          | 10-01, 50-01 | FUEL SYSTEM .....   | 10-01, 70-01 |
| BOB-TACH (POWER) BLOCK .....                    | 20-01        | FUEL TANK .....   | 50-01        |
| BRAKE (SINGLE SPEED) .....                      | 40-01        | HEATER COIL .....   | 80-01        |
| BRAKE (TWO-SPEED) .....                         | 40-01        | HEATER VALVE .....  | 80-01        |
| BUCKET POSITION VALVE .....                     | 20-01        | HIGH FLOW VALVE .....   | 20-01        |
| CAB DOOR .....                                  | 50-01        | HYDRAULIC CONNECTION SPECS .....  | SPEC-01      |
| CALIBRATION .....                               | 60-01        | HYDRAULIC CONTROL VALVE (ACS) OR (SJC) .....                                | 20-01        |
| CAMSHAFT AND TIMING GEARS .....                 | 70-01        | HYDRAULIC CONTROL VALVE (STANDARD) .....                                    | 20-01        |
| CASE DRAIN FILTER .....                         | 30-01        | HYDRAULIC / HYDROSTATIC FILTERS .....                                       | 20-01        |
| CHAINCASE .....                                 | 40-01        | HYDRAULIC FLUID RESERVOIR .....   | 20-01        |
| CHARGE PRESSURE .....                           | 30-01        | HYDRAULIC / HYDROSTATIC FLUID SPECIFICATIONS .....                          | SPEC-01      |
| COMPRESSOR .....                                | 80-01        | HYDRAULIC / HYDROSTATIC SYSTEM .....  | 10-01        |
| CONDENSER .....                                 | 80-01        | HYDRAULIC PUMP (STANDARD) .....   | 20-01        |
| CONTROL HANDLE / LEVER .....                    | 50-01        | HYDRAULIC PUMP (STANDARD) (HIGH FLOW) .....                                 | 20-01        |
| CONTROL HANDLE / LEVER (ACS) .....              | 50-01        | HYDRAULIC PUMP (SJC) .....  | 20-01        |
| CONTROL HANDLE / LEVER (SJC) .....              | 50-01        | HYDRAULIC PUMP (SJC) (HIGH FLOW) .....                                      | 20-01        |
| CONTROL PANEL .....                             | 50-01        | HYDRAULIC SYSTEM INFORMATION .....  | 20-01        |
| CONTROL PANEL (SJC) .....                       | 50-01        | HYDROSTATIC DRIVE MOTOR .....   | 30-01        |
| CONTROL PANEL SETUP .....                       | 60-01        | HYDROSTATIC DRIVE MOTOR (TWO SPEED) .....                                   | 30-01        |
| CONTROL PEDALS AND LINKAGES .....               | 50-01        | HYDROSTATIC MOTOR CARRIER (SINGLE AND TWO-SPEED WITH MANUAL CONTROLS) ..... | 30-01        |
| CONTROL PEDALS (ACS) .....                      | 50-01        | HYDROSTATIC MOTOR CARRIER (SINGLE AND TWO-SPEED WITH SJC CONTROLS) .....    | 30-01        |
| CONTROL SYSTEM (ACS) .....                      | 60-01        | HYDROSTATIC PUMP .....  | 30-01        |
| CONVERSIONS .....                               | SPEC-01      | HYDROSTATIC PUMP (SJC) .....  | 30-01        |
| CRANKSHAFT AND PISTONS .....                    | 70-01        | HYDROSTATIC SYSTEM INFORMATION .....  | 30-01        |
| CYLINDER (BOB-TACH) .....                       | 20-01        |   |              |
| CYLINDER (LIFT) .....                           | 20-01        |   |              |
| CYLINDER (TILT) .....                           | 20-01        |   |              |
| CYLINDER HEAD .....                             | 70-01        |   |              |
| DIAGNOSTICS SERVICE CODES .....                 | 60-01        |   |              |
| DRIVE BELT .....                                | 30-01        |   |              |
| DRIVE COMPONENTS .....                          | 40-01        |   |              |
| ELECTRICAL / HYDRAULIC CONTROLS .....           | 60-01        |   |              |
| ELECTRICAL / HYDRAULIC CONTROLS (ACS) ..        | 60-01        |   |              |
| ELECTRICAL / HYDRAULIC CONTROLS (SJC) ..        | 60-01        |   |              |
| ELECTRICAL SYSTEM INFORMATION .....             | 60-01        |   |              |
| EMERGENCY EXIT .....                            | 10-01        |   |              |

## ALPHABETICAL INDEX (CONT'D)

|   |              |   |         |
|---|--------------|---|---------|
| LIFT ARMS .....   | 50-01        | THERMOSTAT .....                        | 80-01   |
| LIFT ARM BYPASS CONTROL VALVE.....                      | 20-01        | TIRE MAINTENANCE .....                  | 10-01   |
| LIFT ARM SUPPORT DEVICE.....                            | 10-01        | TORQUE SPECIFICATIONS FOR BOLTS .....   | SPEC-01 |
| LIFTING AND BLOCKING THE LOADER.....                    | 10-01        | TOWING THE LOADER.....                  | 10-01   |
| LIGHTS.....   | 60-01        | TRACTION LOCK .....                     | 60-01   |
| (S160) LOADER SPECIFICATIONS .....                      | SPEC-01      | TRANSPORTING THE LOADER ON A TRAILER .. | 10-01   |
| LOADER STORAGE AND RETURN TO SERVICE                    | 10-01        | TROUBLESHOOTING .....                   | 80-01   |
| LUBRICATING THE LOADER.....                             | 10-01        | TURBOCHARGER.....                       | 70-01   |
| LUBRICATION SYSTEM .....                                | 70-01        | TWO-SPEED VALVE.....                    | 30-01   |
| <br>  |              |   |         |
| MAIN RELIEF VALVE .....                                 | 20-01        | WINDOW (CAB DOOR) .....                 | 50-01   |
| MAINTENANCE CLOCK .....                                 | 60-01        | WINDOW (REAR) .....                     | 50-01   |
| MUFFLER.....  | 70-01        | WINDOW (SIDE).....                      | 50-01   |
| <br>  |              | WINDOW (TOP).....                       | 50-01   |
| OIL COOLER .....  | 20-01        |   |         |
| OPERATOR CAB.....                                       | 10-01, 50-01 |   |         |
| OPERATOR SEAT .....                                     | 50-01        |   |         |
| OPERATOR SEAT (SUSPENSION).....                         | 50-01        |   |         |
| <br>  |              |   |         |
| PASSWORD SETUP (DELUXE INSTRUMENTATION<br>PANEL).....   | 60-01        |   |         |
| PASSWORD SETUP (KEYLESS START PANEL) .....              | 60-01        |   |         |
| PIVOT PINS.....   | 10-01        |   |         |
| <br>  |              |   |         |
| REAR AUXILIARY DIVERTER VALVE .....                     | 20-01        |   |         |
| REAR DOOR (TAILGATE).....                               | 50-01        |   |         |
| REAR GRILLE.....  | 50-01        |   |         |
| RECEIVER / DRIER .....                                  | 80-01        |   |         |
| REGULAR MAINTENANCE .....                               | 80-01        |   |         |
| REMOTE START TOOL KIT-MEL1563 .....                     | 10-01        |   |         |
| REMOTE START TOOL (SERVICE TOOL)<br>KIT - 6689779 ..... | 10-01        |   |         |
| <br>  |              |   |         |
| 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 (SJC) .....                                | 60-01        |   |         |
| STARTER .....   | 60-01        |   |         |
| STEERING DRIFT COMPENSATION .....                       | 60-01        |   |         |
| STOPPING THE ENGINE AND<br>LEAVING THE LOADER .....     | 10-01        |   |         |
| SYSTEM CHARGING AND RECLAMATION .....                   | 80-01        |   |         |

## CONTENTS

|  |         |
|--|---------|
| FOREWORD .....                               | II      |
| SAFETY INSTRUCTIONS .....                    | V       |
| FIRE PREVENTION .....                        | VII     |
| SERIAL NUMBER LOCATIONS .....                | IX      |
| DELIVERY REPORT .....                        | X       |
| BOBCAT LOADER IDENTIFICATION .....           | XI      |
| SAFETY & MAINTENANCE .....                   | 10-01   |
| HYDRAULIC SYSTEM .....                       | 20-01   |
| HYDROSTATIC SYSTEM .....                     | 30-01   |
| DRIVE SYSTEM .....                           | 40-01   |
| MAINFRAME .....                              | 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**

**MAINFRAME**

**ELECTRICAL  
SYSTEM &  
ANALYSIS**

**ENGINE  
SERVICE**

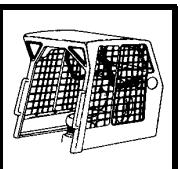
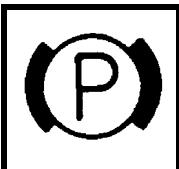
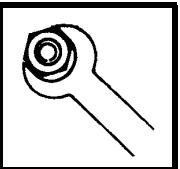
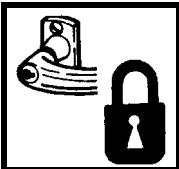
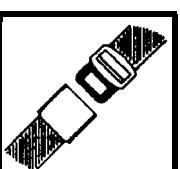
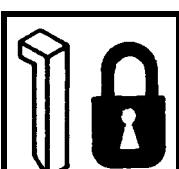
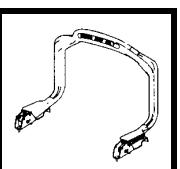
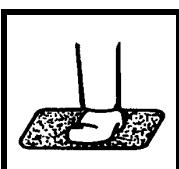
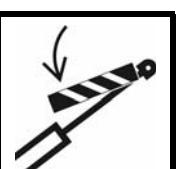
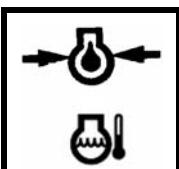
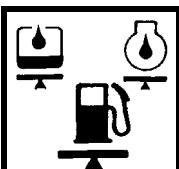
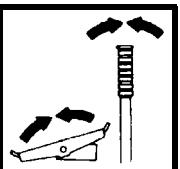
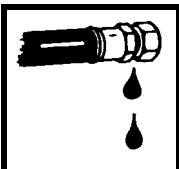
**HVAC**

**SPECIFICATIONS**

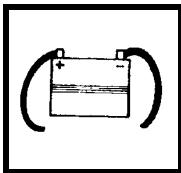
# FOREWORD

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.

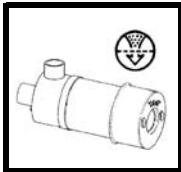
A general inspection of the following items must be made after the loader has had service or repair:

|  |   |  |   |
|--|---|--|---|
| 1. Check that the ROPS/FOPS (Including side screens) is in good condition and is not modified. |    | 9. The parking brake must function correctly.                                      |    |
| 2. Check that ROPS mounting hardware is tightened and is Bobcat approved.                      |    | 10. Enclosure door latches must open and close freely.                             |    |
| 3. The seat belt must be correctly installed, functional and in good condition.                |    | 11. Bob-Tach 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.  |  | 13. Check for correct function of indicator lamps.                                 |  |
| 6. Machine signs (decals) must be legible and in the correct location.                         |  | 14. Check hydraulic fluid level, engine oil level and fuel supply.                 |  |
| 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.  |  |

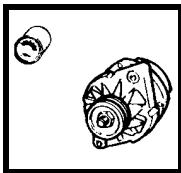
17. Check the condition of the battery and cables.



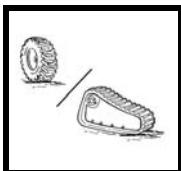
18. Inspect the air cleaner for damage or leaks. Check the condition of the element.



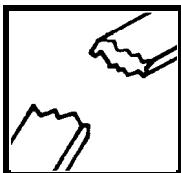
19. Check the electrical charging system.



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



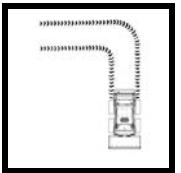
21. Inspect for loose or broken parts or connections.



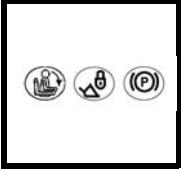
22. Check for any field modification not completed.



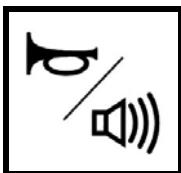
23. Operate the machine and check all functions.



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



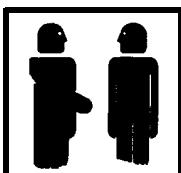
25. Check for proper function of front horn and back-up alarm (if equipped).



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

FW SSL-1008 SM

## 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 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](http://www.training.bobcat.com) or [www.bobcat.com](http://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](http://www.training.bobcat.com) or [www.bobcat.com](http://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](http://www.training.bobcat.com) or [www.bobcat.com](http://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 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 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)

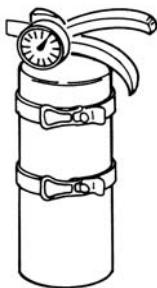
### Welding And Grinding

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

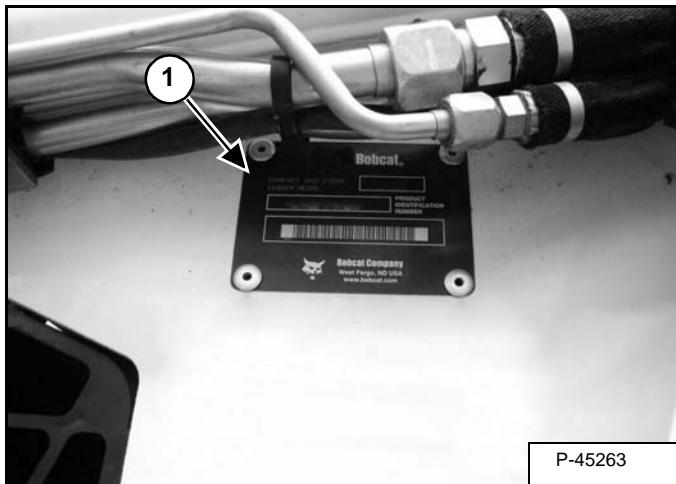


Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

## SERIAL NUMBER LOCATIONS

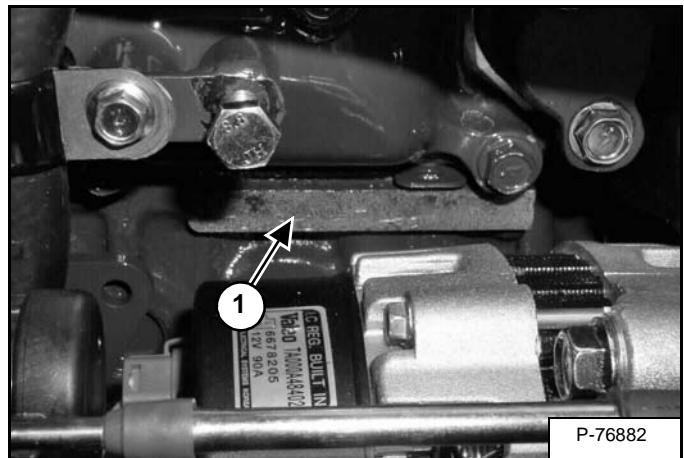
Always use the serial number of the loader when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

**Figure 1**



## Engine Serial Number

**Figure 2**



The engine serial number is located on the side of the engine **[Figure 2]** above the alternator.

## Loader Serial Number

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

Explanation of loader Serial Number:

XXXX XXXXX

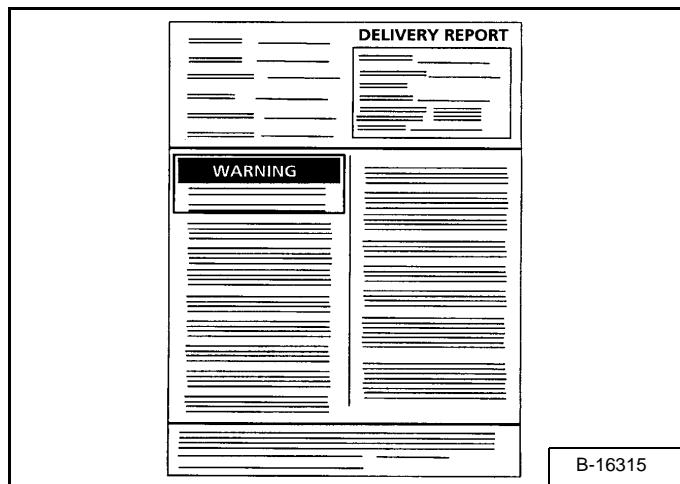
Module 2. - Production Sequence (Series)

Module 1. - Model / Engine Combination

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

## DELIVERY REPORT

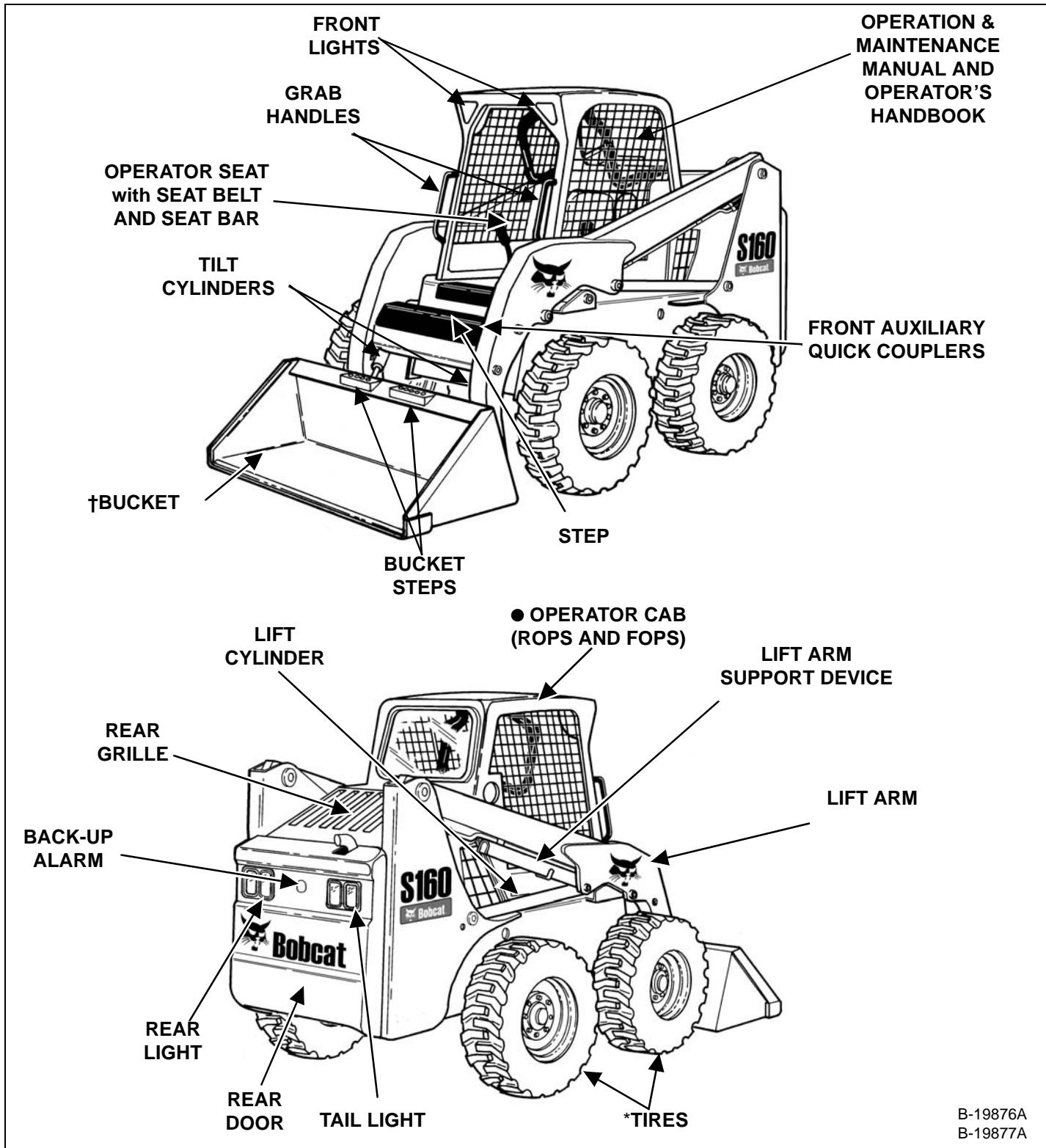
Figure 3



The image shows a 'DELIVERY REPORT' form. At the top left, there is a section with several horizontal lines for signatures or initials. To its right is a box labeled 'DELIVERY REPORT' containing more horizontal lines. Below these sections is a box labeled 'WARNING' containing several horizontal lines. To the right of the 'WARNING' box is a large area with many horizontal lines for signatures or initials. At the bottom right of the form is a small box containing the code 'B-16315'.

The delivery report [Figure 3] must be completed 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.

## BOBCAT LOADER IDENTIFICATION



B-19876A  
B-19877A

\* TIRES - The Bobcat loader is factory equipped with standard tires

† BUCKETS - Several different buckets and other attachments are available for the Bobcat loader.

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



**Bobcat**®

|  |          |
|--|----------|
| 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 |
| EMERGENCY EXIT .....   | 10-210-1 |
| Front Door .....   | 10-210-1 |
| Rear Window .....  | 10-210-1 |
| ENGINE COOLING SYSTEM .....  | 10-90-1  |
| Checking Level .....   | 10-90-2  |
| Cleaning .....   | 10-90-1  |
| Removing And Replacing Coolant .....   | 10-90-3  |
| 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 And Replacing Oil .....   | 10-130-1 |
| FUEL SYSTEM .....  | 10-100-1 |
| Biodiesel Blend Fuel .....   | 10-100-1 |
| Filling The Fuel Tank .....  | 10-100-2 |
| Fuel Filter .....  | 10-100-3 |
| Fuel Specifications .....  | 10-100-1 |
| Removing Air From The Fuel System .....  | 10-100-3 |
| HYDRAULIC / HYDROSTATIC SYSTEM .....   | 10-120-1 |
| Breather Cap .....   | 10-120-8 |
| Checking And Adding Fluid .....  | 10-120-1 |
| Hydraulic / Hydrostatic Fluid Chart .....  | 10-120-1 |
| Removing And Replacing Hydraulic Fluid .....                                     | 10-120-2 |
| Removing And Replacing Hydraulic / Hydrostatic Filter .....                      | 10-120-3 |
| Removing And Replacing Hydraulic Case Drain Filters (Single Speed Loaders) ..... | 10-120-4 |
| Removing And Replacing Hydraulic Case Drain Filters (Two-Speed Loaders) .....    | 10-120-5 |
| Removing And Replacing Hydraulic Charge Filter .....                             | 10-120-7 |

**Continued On Next Page**

## **SAFETY & MAINTENANCE (CONT'D)**

|   |          |
|---|----------|
| 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  |
| 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  |
| Description.....  | 10-30-1  |
| Cab Door Sensor.....                                      | 10-30-3  |
| Lowering .....  | 10-30-2  |
| Raising.....  | 10-30-1  |
| Special Applications Kit .....                            | 10-30-3  |
| Special Applications Kit Inspection And Maintenance ..... | 10-30-3  |
| 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 - 7003031 ..         | 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 .....                              | 10-60-5  |
| Remote Start Tool (Service Tool) - 7003030 .....          | 10-61-2  |
| SEAT BELT .....   | 10-220-1 |
| Inspection And Maintenance .....                          | 10-220-1 |
| SERVICE SCHEDULE .....                                    | 10-70-1  |
| Chart .....   | 10-70-1  |

**Continued On Next Page**

## **SAFETY & MAINTENANCE (CONT'D)**

|   |          |
|---|----------|
| SPARK ARRESTOR MUFFLER .....                  | 10-170-1 |
| Cleaning Procedure .....                      | 10-170-1 |
| STOPPING THE ENGINE AND LEAVING THE LOADER .. | 10-200-1 |
| Procedure .....                               | 10-200-1 |
| TIRE MAINTENANCE.....                         | 10-160-1 |
| Mounting .....                                | 10-160-1 |
| Rotating .....                                | 10-160-1 |
| Wheel Nuts .....                              | 10-160-1 |
| TOWING THE LOADER .....                       | 10-50-1  |
| Procedure .....                               | 10-50-1  |
| TRANSPORTING THE LOADER ON A TRAILER .....    | 10-40-1  |
| Fastening .....                               | 10-40-1  |
| Loading And Unloading .....                   | 10-40-1  |

**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.**



**Bobcat**®

## LIFTING AND BLOCKING THE LOADER

Figure 10-10-1

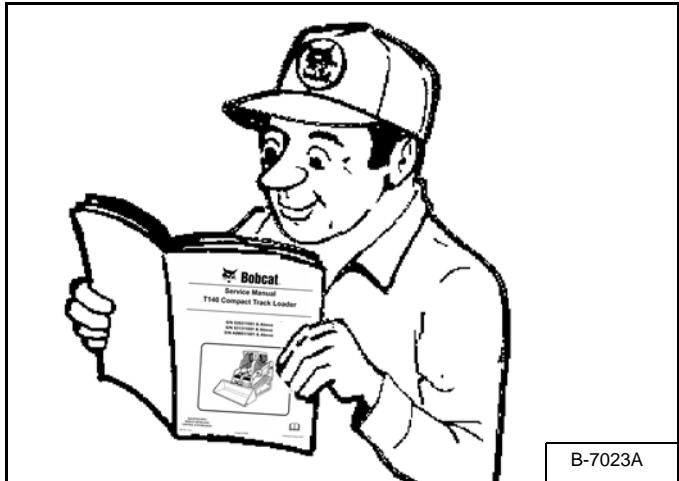


Figure 10-10-2



Put a floor jack under the rear of the loader.

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

Figure 10-10-3



Put the floor jack under the front of the loader.

Lift the front of the loader and put jackstands under the axle tubes [Figure 10-10-3].

**NOTE:** Make sure the jackstands do not touch the tires. Make sure tires clear the floor and any obstacles.

## Procedure

Always park the loader on a level surface.



## WARNING

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



**Bobcat**®

## LIFT ARM SUPPORT DEVICE

### Installing

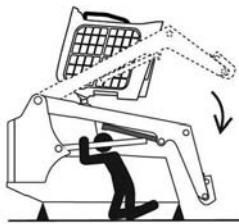


## WARNING

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



P-90328

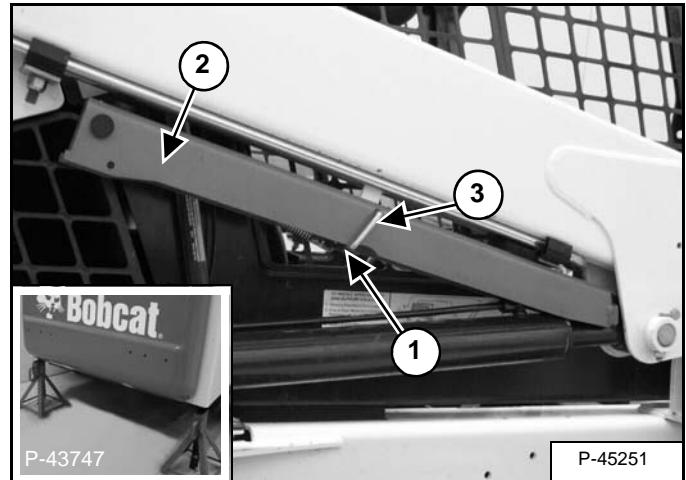
### AVOID DEATH

- 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

Remove attachment from the loader. See BOB-TACH (HAND LEVER) on Page 50-40-1. OR See BOB-TACH (POWER) on Page 50-41-1.

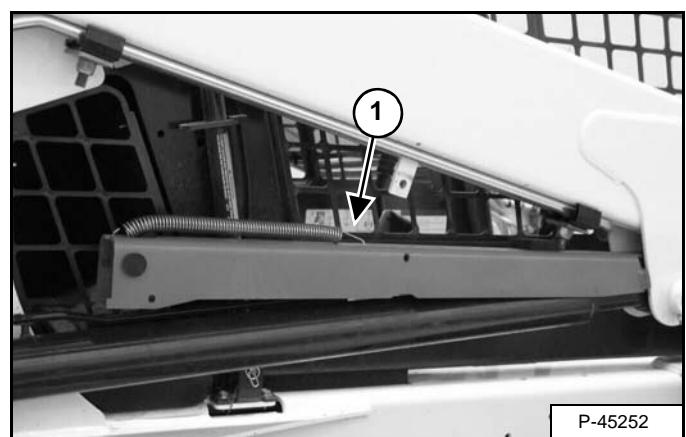
Figure 10-20-1



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

Disconnect the spring (Item 1) from the lift arm support device retaining pin. Support the lift arm support device (Item 2) with your hand and remove the retaining pin (Item 3) [Figure 10-20-1].

Figure 10-20-2



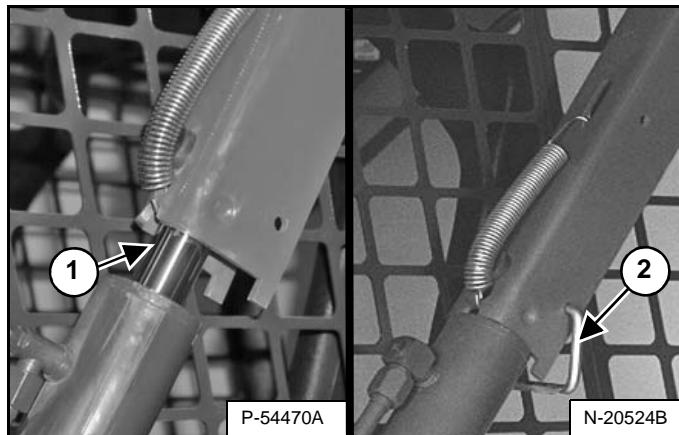
Lower the lift arm support device to the top of the lift cylinder. Hook the free end of the spring (Item 1) [Figure 10-20-2] to the lift arm support device so there will be no interference with the support device engagement.

Sit in the operator's seat, fasten the seat belt and lower the seat bar. Start the engine.

## LIFT ARM SUPPORT DEVICE (CONT'D)

### Installing (Cont'd)

Figure 10-20-3



Raise the lift arms until the lift arm support device drops onto the lift cylinder rod (Item 1) [Figure 10-20-3]

Lower the lift arms slowly until the support device is held between the lift arm and the lift cylinder. Stop the engine.

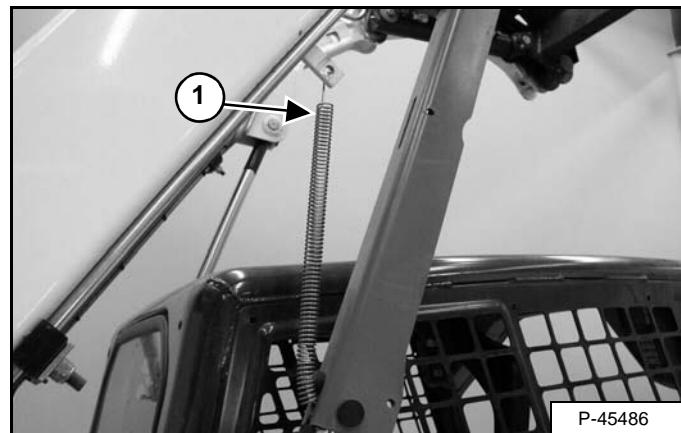
Raise the seat bar, disconnect the seat belt and make sure the lift and tilt functions are deactivated.

Install pin (Item 2) [Figure 10-20-3] into the rear of the lift arm support device below the cylinder rod.

### Removing

Remove the pin from the lift arm support device.

Figure 10-20-4

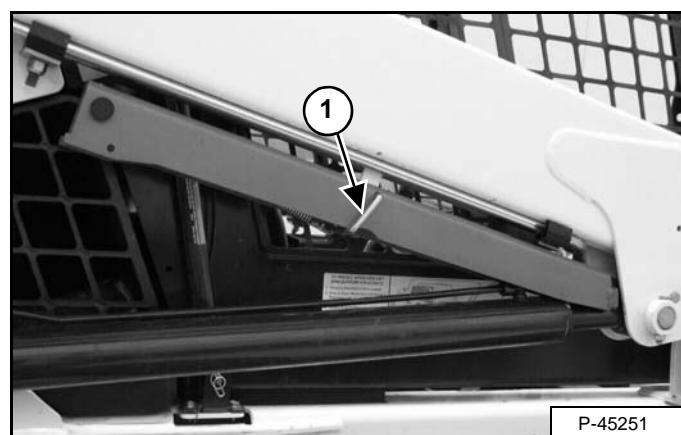


Connect the spring (Item 1) [Figure 10-20-4] from the lift arm support device to the bracket below the lift arms.

Sit in the operator's seat fasten the seat belt and lower the seat bar.

Start the engine.

Figure 10-20-5



Raise the lift arms a small amount. The spring will lift the support device off the lift cylinder rod. Lower the lift arms. Stop the engine.

Raise the seat bar, disconnect the seat belt and make sure the lift and tilt functions are deactivated.

Disconnect the spring from the bracket.

Raise the support device into storage position and insert pin (Item 1) [Figure 10-20-5] through lift arm support device and bracket. Connect the spring to the pin.

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. The seat belt must be worn for rollover protection.

Check the ROPS / FOPS cab, mounting and hardware for damage. Never modify the ROPS / FOPS cab. Replace the cab and hardware if damaged. See your Bobcat dealer for parts.

ROPS / FOPS - Roll Over protective Structure per 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 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

### Raising

Always stop the engine before raising or lowering the cab.

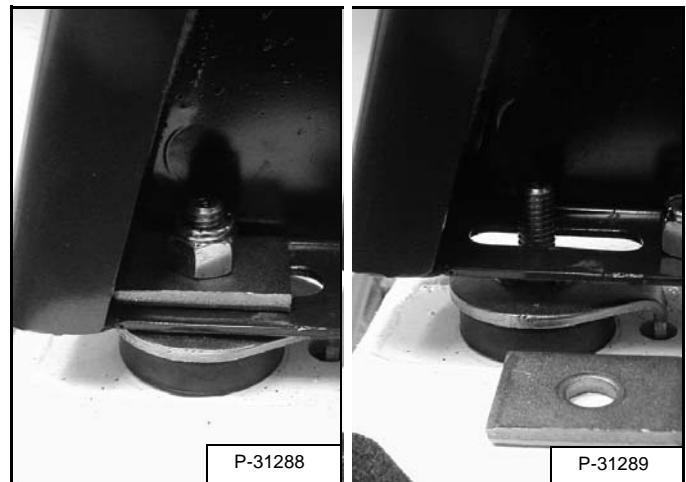
Stop the loader on a level surface. Lower the lift arms. If the lift arms must be up while raising the operator cab, install the lift arm support device. (See LIFT ARM SUPPORT DEVICE on Page 10-20-1.)

Figure 10-30-1



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) at the front corners of the cab.



## WARNING

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

NOTE: On some machines, the operator cab frame could contact the steering levers while raising or lowering the operator cab. The engine MUST be stopped before raising or lowering the operator cab.

## OPERATOR CAB (CONT'D)

### Raising (Cont'd)

Figure 10-30-3



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

### Lowering

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 cab door, heater, air conditioning, etc. In these cases, the cab may need to be raised slightly from the latch to be able to release the latch.**

## WARNING

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

**NOTE:** On some machines, the operator cab frame could contact the steering levers while raising or lowering the operator cab. The engine **MUST** be stopped before raising or lowering the operator cab.

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.

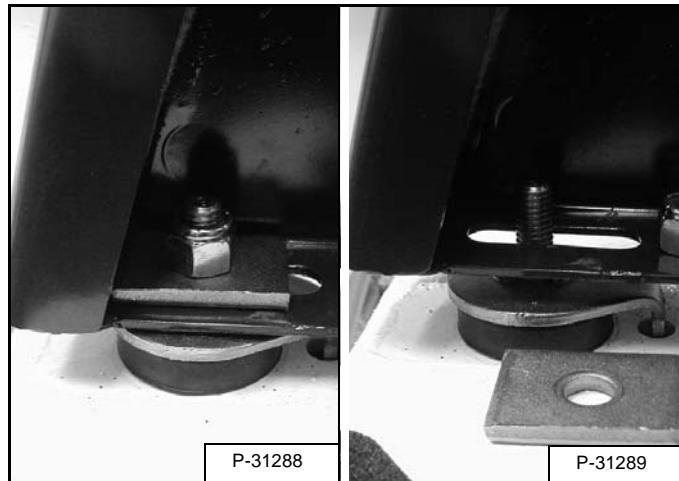
## WARNING

PINCH POINT CAN CAUSE INJURY

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

W-2469-0803

Figure 10-30-5



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

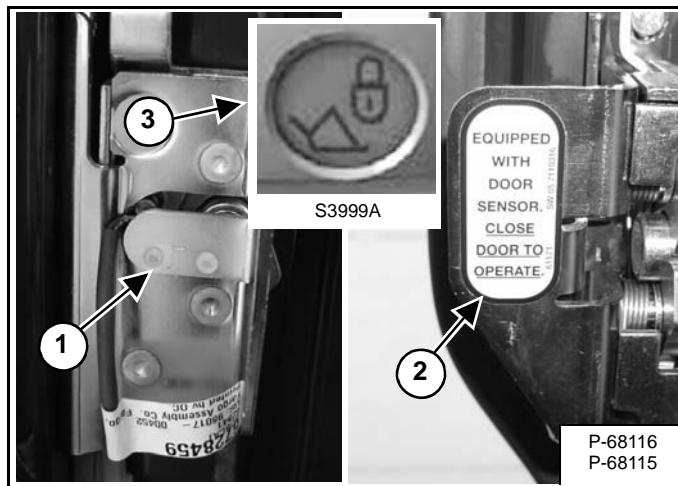
Tighten the nuts to 54 - 61 N·m (40 - 45 ft-lb) torque.

## OPERATOR CAB (CONT'D)

### Cab Door Sensor

This machine may be equipped with a Cab Door Sensor.

**Figure 10-30-6**

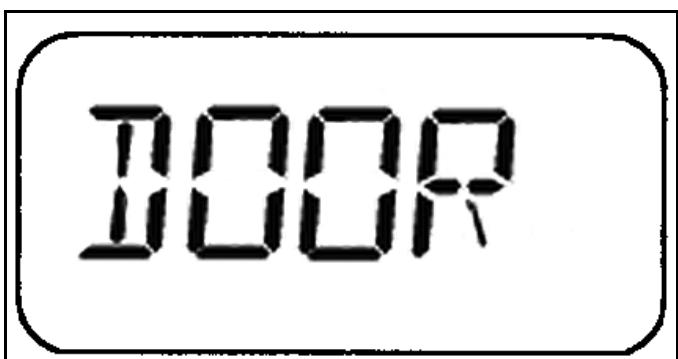


The cab door has a sensor (Item 1) [Figure 10-30-6] installed which deactivates the lift and tilt valves when the door is open.

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

The LIFT & TILT VALVE light (Item 3) [Figure 10-30-6] will be OFF when the door is closed, the key switch is turned to RUN or the RUN / ENTER button is pressed, the seat bar is lowered and the PRESS TO OPERATE LOADER button is pressed.

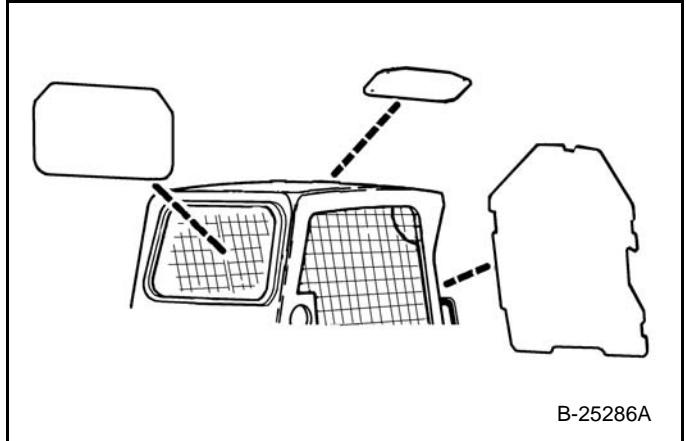
**Figure 10-30-7**



The LIFT & TILT VALVE light (Item 3) [Figure 10-30-6] will be ON when the door is open, the key switch is turned to RUN or the RUN / ENTER button is pressed, the seat bar is lowered and the PRESS TO OPERATE LOADER button is pressed.

[DOOR] will appear in the data display [Figure 10-30-7].

### Special Applications Kit



Available for special applications to restrict material from entering cab openings. Kit includes 12,7 mm (0.50 in) poly carbonate front door, top and rear windows.

See your Bobcat dealer for availability.

### Special Applications Kit Inspection And Maintenance

- 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.

Product: 2010 Bobcat S160 Skid-Steer Loader Service Repair Workshop Manual(S/N A3L311001 & Above,S/N A3L411001 & Above)  
Full Download: <https://www.arepairmanual.com/downloads/2010-bobcat-s160-skid-steer-loader-service-repair-workshop-manuals-n-a3l311001-above-n-a3l411001-above-n-aeyn11001-above/>



Sample of manual. Download All 1006 pages at:

<https://www.arepairmanual.com/downloads/2010-bobcat-s160-skid-steer-loader-service-repair-workshop-manuals-n-a3l311001-above-n-a3l411001-above-n-aeyn11001-above/>