

Product: 2010 Bobcat 442 Compact Excavator Service Repair Workshop Manual(S/N 522311001 & Above,S/N 528911001 & Above)
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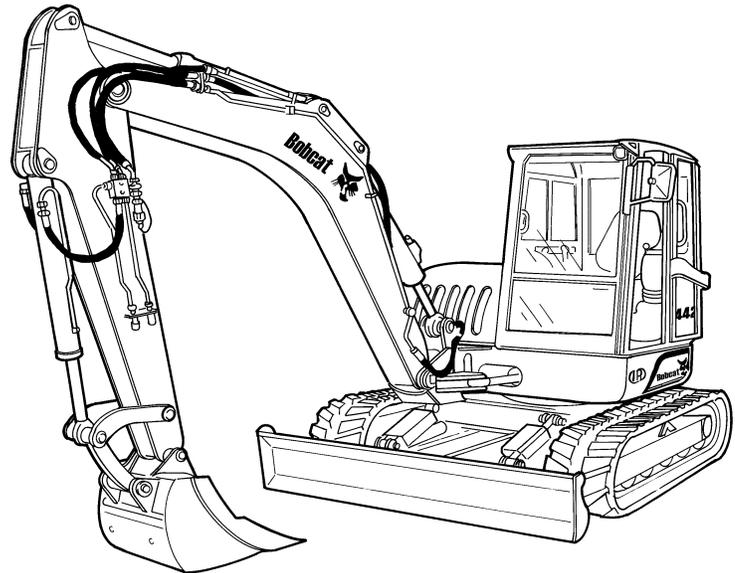
442



Bobcat®

Service Manual

**S/N 522311001 & Above
S/N 528911001 & Above
S/N 528611001 & Above**



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MAINTENANCE SAFETY



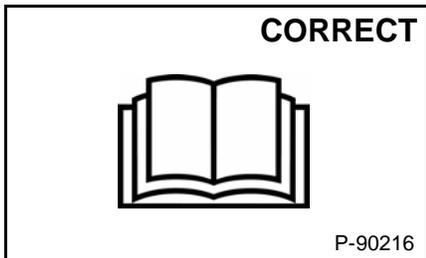
WARNING

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.

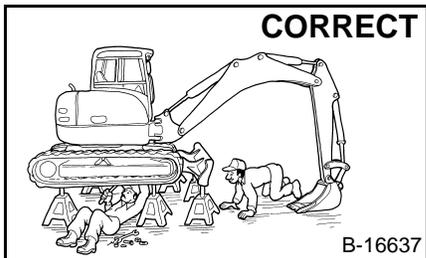
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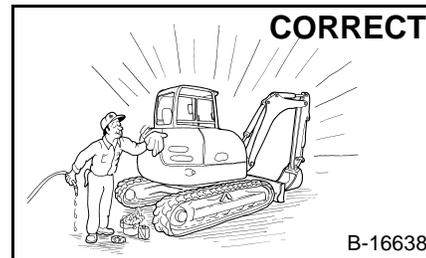
Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



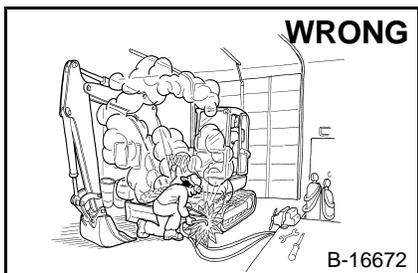
Never service the Bobcat Hydraulic Excavator without instructions.



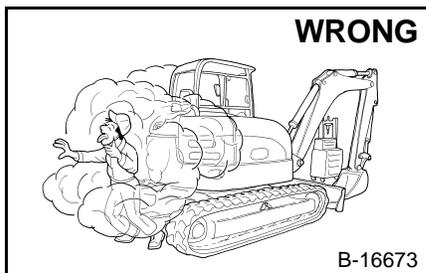
Use the correct procedure to lift and support the excavator.
Always lift the blade fully before installing jackstands.



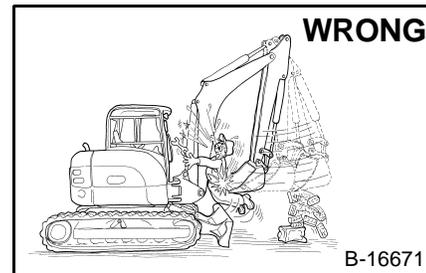
Cleaning and maintenance are required daily.



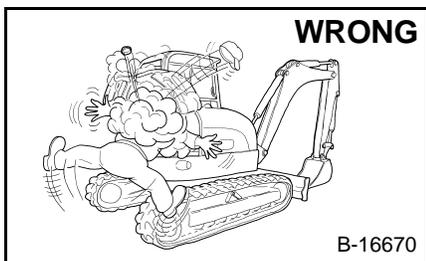
Have good ventilation when welding or grinding painted parts.
Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.



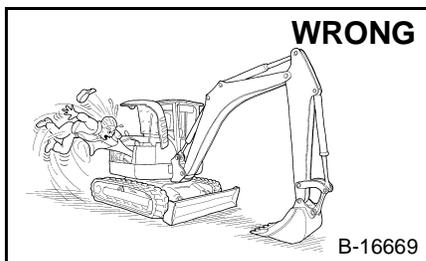
Vent exhaust to outside when engine must be run for service.
Exhaust system must be tightly sealed. Exhaust Fumes can kill without warning.



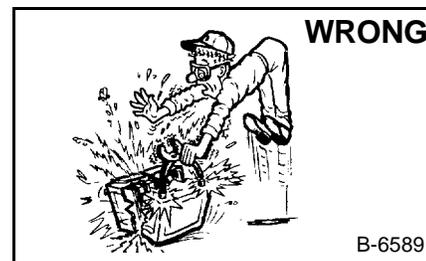
Always lower the bucket and blade to the ground before doing any maintenance.
Never modify equipment or add attachments not approved by Bobcat Company.



Stop, cool and clean engine of flammable materials before checking fluids.
Never service or adjust machine with the engine running unless instructed to do so in the manual.
Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.
Never fill fuel tank with engine running, while smoking or when near open flame.



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



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.



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**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**UNDER-
CARRIAGE**

**UPPER-
STRUCTURE &
SWING SECTION**

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**

HVAC

SPECIFICATIONS



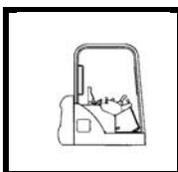
Bobcat®

FOREWORD

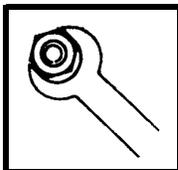
This manual is for the Bobcat excavator mechanic. It provides necessary servicing and adjustment procedures for the Bobcat excavator and its component parts and systems. Refer to the Operation & Maintenance Manual for operating instructions, starting procedure, daily checks, etc.

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

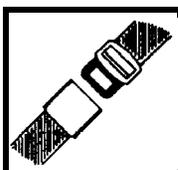
1. Check that the ROPS/TOPS/FOPS is in good condition and is not modified.



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



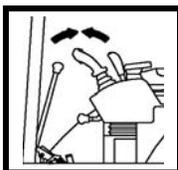
3. The seat belt must be correctly installed, functional and in good condition.



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



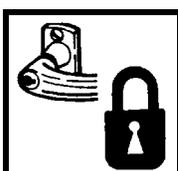
5. Travel levers, control levers and foot pedals must return to neutral. Check that the pedal locks are in working order.



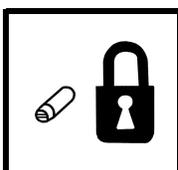
6. Check for correct function of the work lights.



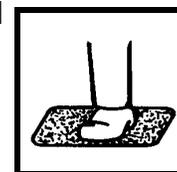
7. Enclosure door latches must open and close freely.



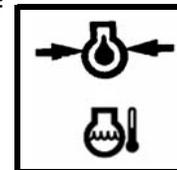
8. Attachment locking pins must function correctly and be in good condition.



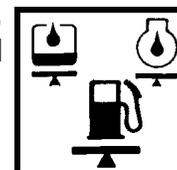
9. Safety treads must be in good condition.



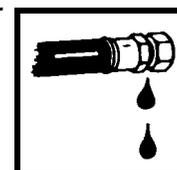
10. Check for correct function of indicator lamps.



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



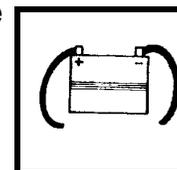
12. Inspect for fuel, oil or hydraulic fluid leaks.



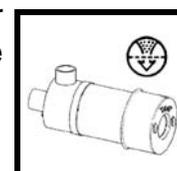
13. Lubricate the excavator.



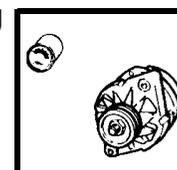
14. Check the condition of the battery and cables.



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

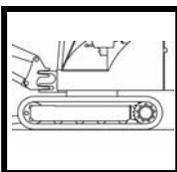


16. Check the electrical charging system.

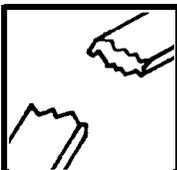


FW EXC-0509 SM

17. Check tracks for wear and tension. Use only approved tracks.



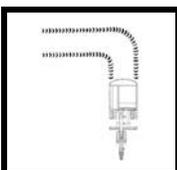
18. Inspect for loose or broken parts or connections.



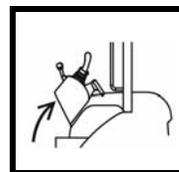
19. Check for any field modification not completed.



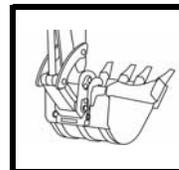
20. Operate the machine and check all functions.



21. Check the control console interlocks for correct function.



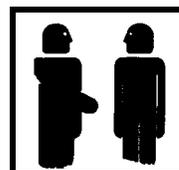
22. Inspect the X-Change™ for wear or damage. Repair or replace damaged parts.



23. Check function or condition of all equipped options and accessories (examples: special applications kit, motion alarm, etc.).



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



**CALIFORNIA
PROPOSITION 65 WARNING**
Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm.

SAFETY INSTRUCTIONS



Safety Alert Symbol

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



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 Compact Excavator 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 Bobcat excavator. 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 Bobcat compact excavator Safety Video is available from your Bobcat dealer or at www.training.bobcat.com or www.bobcat.com.

SI EXC-0308 SM

442 Excavator
Service Manual

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



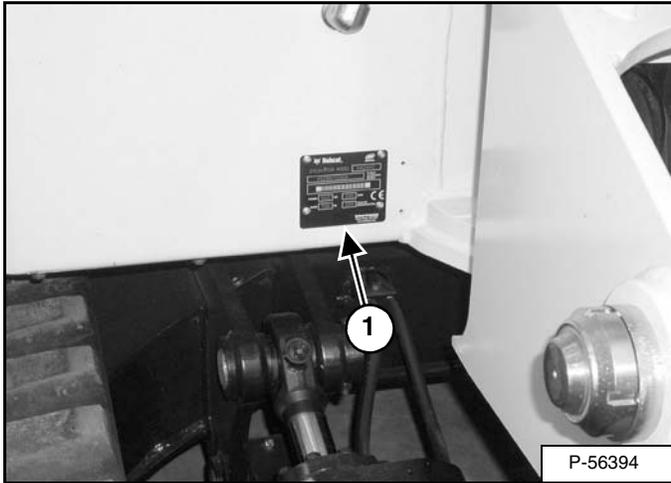
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

SERIAL NUMBER LOCATIONS

Always use the serial number of the excavator 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.

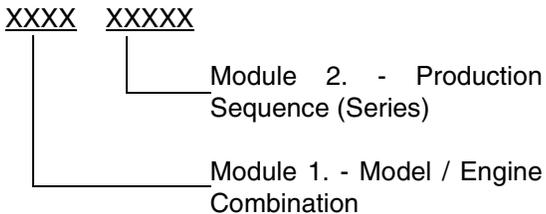
Excavator Serial Number

Figure 1



The excavator serial number plate (Item 1) is located on the frame of the machine in the location shown [Figure 1].

Explanation of Excavator Serial Number:



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

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

Engine Serial Number

Figure 2

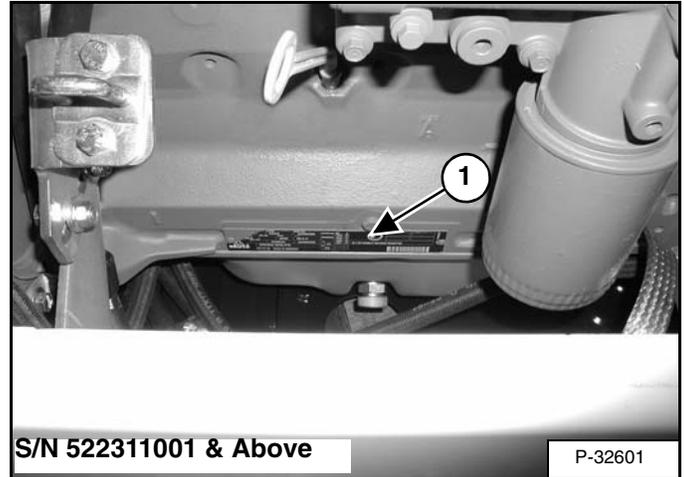
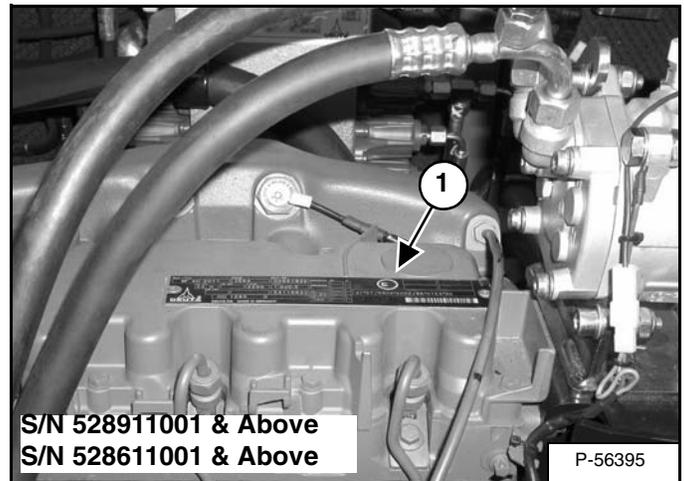


Figure 3



The engine serial number (Item 1) [Figure 2] & [Figure 3] is located on the engine in the locations shown.

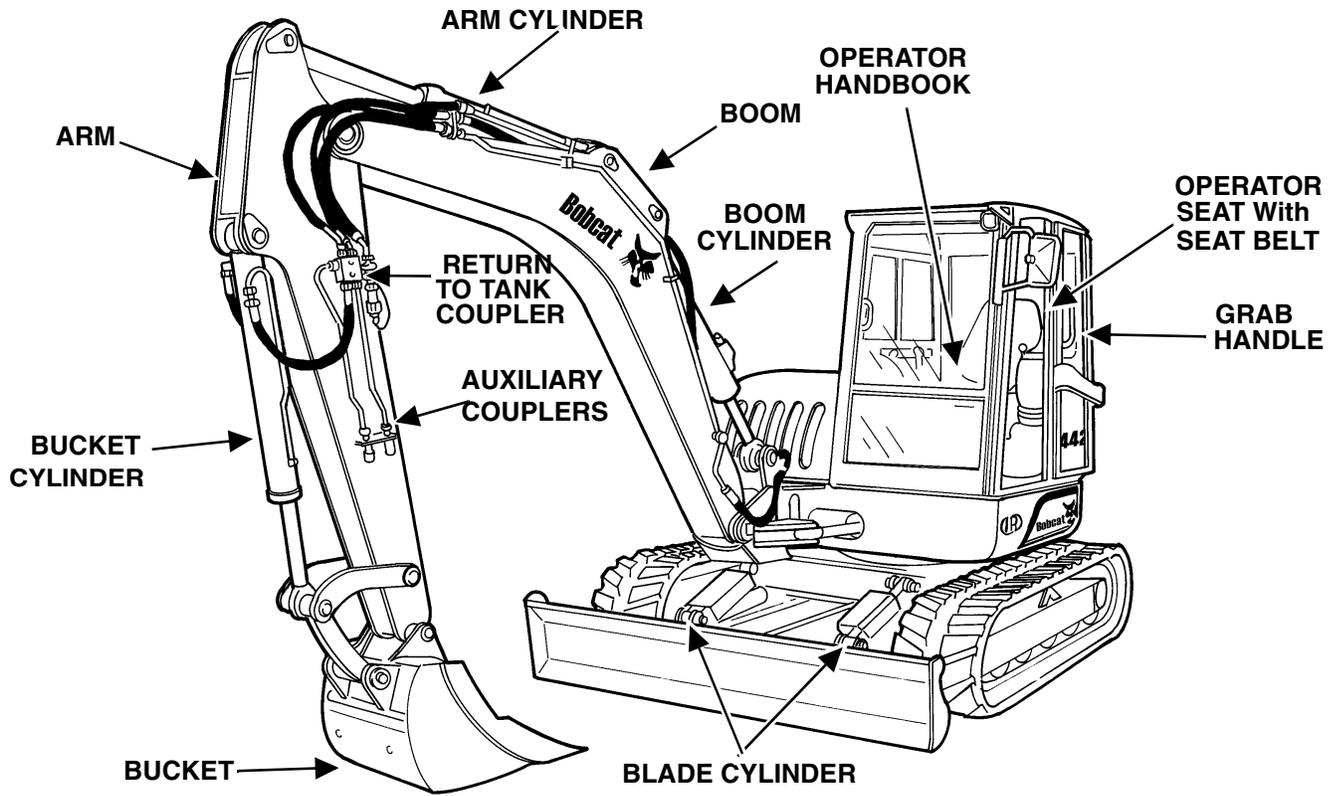
DELIVERY REPORT

Figure 4

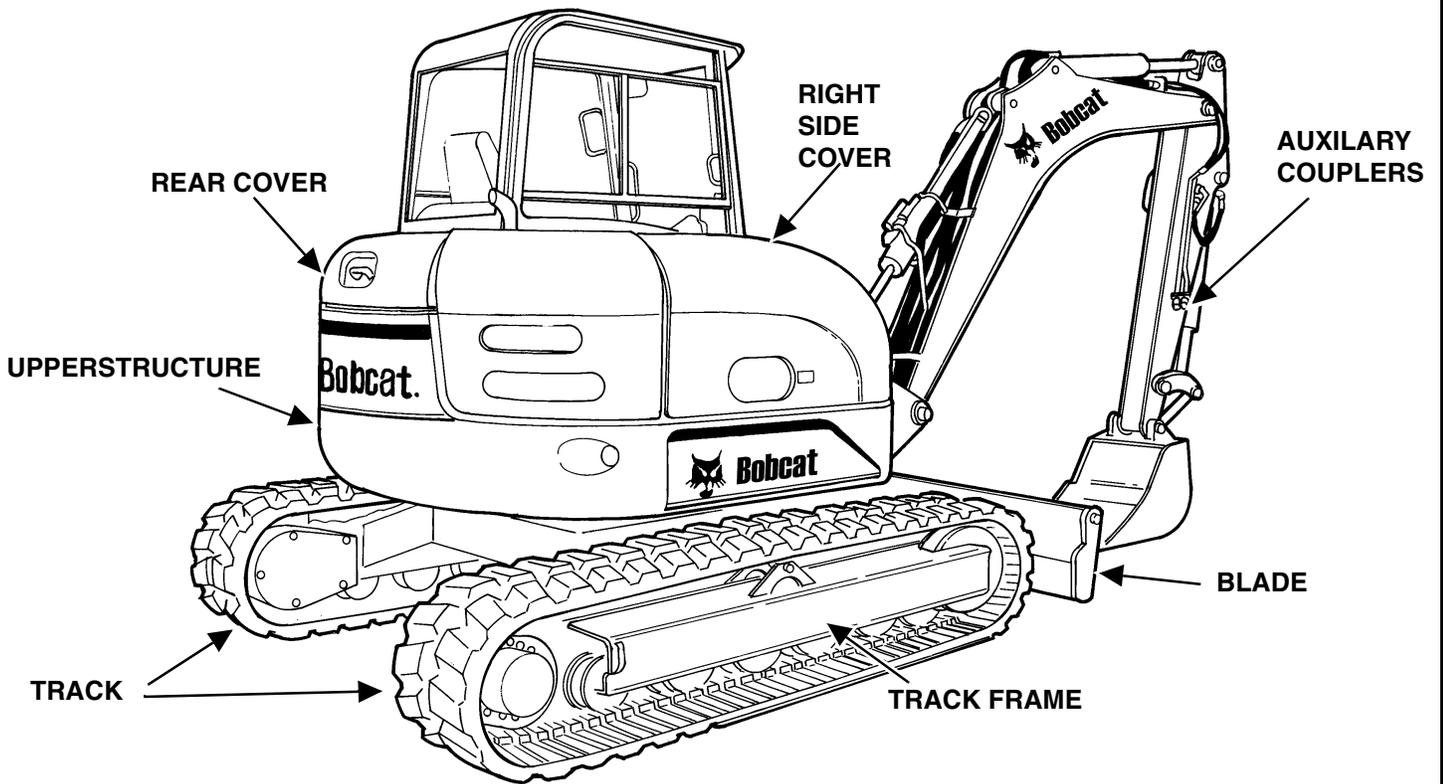
The diagram shows a form titled "DELIVERY REPORT". The form is divided into several sections. At the top, there is a header section with the title "DELIVERY REPORT". Below this, there are two columns of horizontal lines representing text input fields. On the left side, there is a section with a dark header containing the word "WARNING" in white capital letters, followed by several lines of text. At the bottom right of the form, there is a small rectangular box containing the alphanumeric code "B-16315".

The delivery report must be filled out by the dealer and signed by the owner or operator when the Bobcat Excavator is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely **[Figure 4]**.

BOBCAT EXCAVATOR IDENTIFICATION



P-16589



B-16590



Bobcat®

SAFETY & MAINTENANCE

AIR CLEANER	10-60-1
Daily Check	10-60-1
Replacing The Filters	10-60-1
AIR CONDITIONING COMPRESSOR BELT (S/N 522311001 & ABOVE)	10-150-1
Adjusting Belt Tension	10-150-1
AIR CONDITIONING COMPRESSOR BELT (S/N 528911001 & ABOVE AND S/N 528611001 & ABOVE)	10-151-1
Adjusting Belt Tension	10-151-1
ALTERNATOR BELT	10-130-1
Adjusting Belt Tension	10-130-1
CAB TILT PROCEDURE	10-160-1
Installing The Cab Tilt Hinges	10-160-1
Tilting The Cab	10-160-2
COOLING SYSTEM	10-70-1
Checking Coolant Level (S/N 522311001 & Above)	10-70-1
Cleaning The Cooling System	10-70-1
Replacing The Coolant (S/N 522311001 & Above)	10-70-2
ENGINE LUBRICATION SYSTEM	10-90-1
Checking Engine Oil	10-90-1
Replacing Oil And Filter	10-90-2
FAN/FUEL PUMP BELT	10-140-1
Adjusting Belt Tension (S/N 522311001 & Above)	10-140-1
FRESH AIR FILTER (S/N 522311001 & ABOVE)	10-61-1
Removal And Installation	10-61-1
FRESH AIR FILTER (S/N 528911001 & ABOVE AND S/N 528611001 & ABOVE)	10-62-1
Removal And Installation	10-62-1

Continued On Next Page

SAFETY & MAINTENANCE (CONT'D)

FUEL SYSTEM	10-80-1
Draining The Fuel Tank	10-80-8
Filling The Fuel Tank	10-80-1
Fuel Filter Removal And Installation	10-80-7
Fuel Specifications	10-80-1
Pre-Filter Installation (S/N 522311001 & Above)	10-80-4
Pre-Filter Removal (S/N 522311001 & Above)	10-80-3
Pre-Filter Removal And Installation (S/N 528911001 & Above And S/N 528611001 & Above)	10-80-6
Removing Water From The Pre-Filter (S/N 522311001 & Above) ...	10-80-2
HYDRAULIC SYSTEM	10-100-1
Checking And Adding Hydraulic Oil	10-100-1
Diagnostic Couplers (S/N 522311001 & Above)	10-100-9
Diagnostic Couplers (S/N 528911001 & Above And S/N 528611001 & Above) 10-100-10	
Hydraulic Filter Installation (S/N 522311001 & Above)	10-100-4
Hydraulic Filter Installation (S/N 528911001 & Above And S/N 528611001 & Above)	10-100-7
Hydraulic Filter Removal (S/N 522311001 & Above)	10-100-3
Hydraulic Filter Removal (S/N 528911001 & Above And S/N 528611001 & Above)	10-100-6
Replacing The Hydraulic Oil	10-100-2
LIFTING AND BLOCKING THE EXCAVATOR	10-10-1
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LUBRICATION OF THE EXCAVATOR	10-110-1
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LIFTING AND BLOCKING THE EXCAVATOR

Procedure

Always park the machine on a level surface.



Put jackstands under the blade and rear corners of the undercarriage before working under the machine. Failure to block up the machine may allow it to move or fall and result in injury or death.

W-2218-1195



AVOID INJURY

Keep fingers and hands out of pinch points when checking the track tension.

W-2142-0903

Raise one side of the machine (approximately 4 inches) using the boom and arm.

Figure 10-10-1

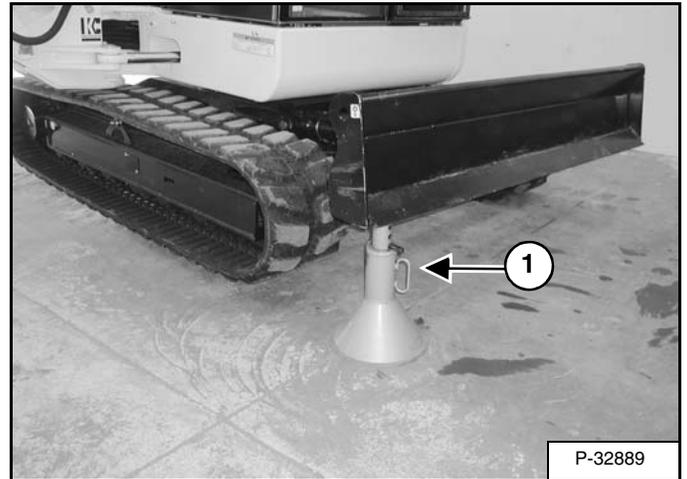
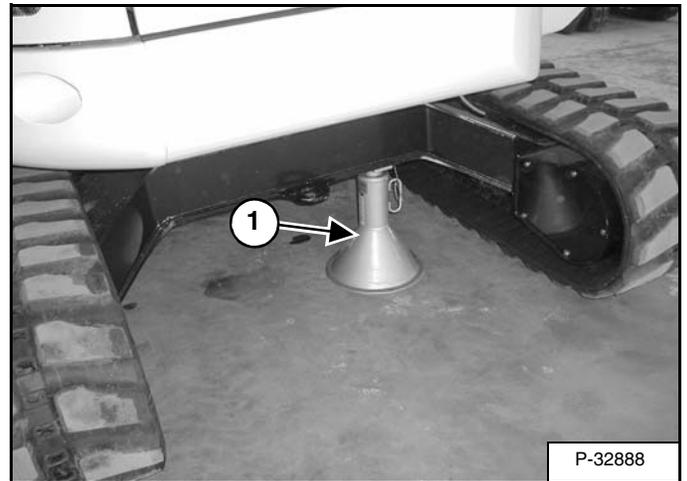


Figure 10-10-2



Raise the blade fully and install jackstands (Item 1) [Figure 10-10-1] & [Figure 10-10-2] under the blade and the track frame. Lower the machine until all machine weight is on the jackstands.

Stop the engine.



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LIFTING THE EXCAVATOR

Procedure

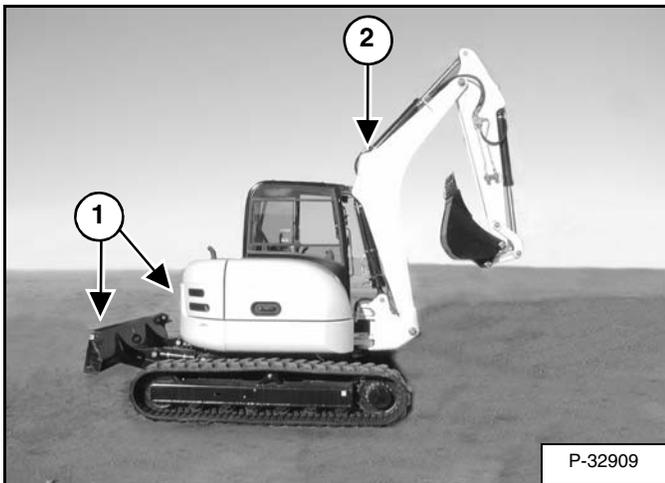
⚠ WARNING

AVOID INJURY OR DEATH

- Use a lifting fixture with sufficient capacity for the weight of the excavator plus any added attachments.
- Maintain center of gravity and balance when lifting.
- Do not swing boom or upperstructure.
- Never lift with operator on machine.

W-2434-0502

Figure 10-11-1



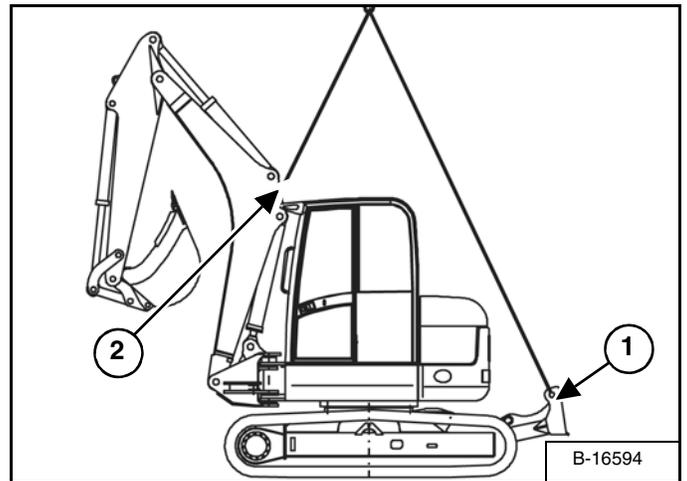
Fully retract the boom cylinder and fully extend the arm and bucket cylinders so the excavator is in the position as shown [Figure 10-11-1].

Raise the blade all the way.

Put all the control levers in neutral.

Stop the engine.

Figure 10-11-2



Fasten chains to the ends of the blade (Item 1) [Figure 10-11-1] & [Figure 10-11-2] and up to a lifting fixture above the cab. The lifting fixture must extend over the sides of the cab to prevent the chains from hitting the cab [Figure 10-11-2].

Fasten a chain to the boom (Item 2) [Figure 10-11-1] & [Figure 10-11-2] and up to a lifting fixture.



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OPERATOR CAB

Description

The excavator has an operator cab as standard equipment.



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

Entering And Exiting The Excavator

Figure 10-20-1



Use the grab handles and track to enter and exit the excavator [Figure 10-20-1].

Raising And Lowering The Left Console

Raise the console before exiting the cab.

Figure 10-20-2



Pull up on the handle (Item 1) [Figure 10-20-2] The lift spring will assist in raising the console.

Lower the console before operating the excavator.

Push down on the handle (Item 1) [Figure 10-20-2] until the console is in the down position.

NOTE: When the console is raised, the hydraulic and traction systems are locked and will not operate.

OPERATOR CAB (CONT'D)

Emergency Exit

The left door and right side window provide exits.

Figure 10-20-3

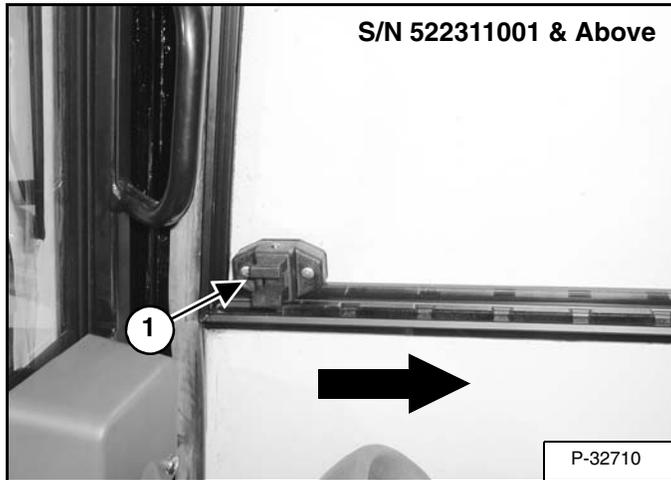
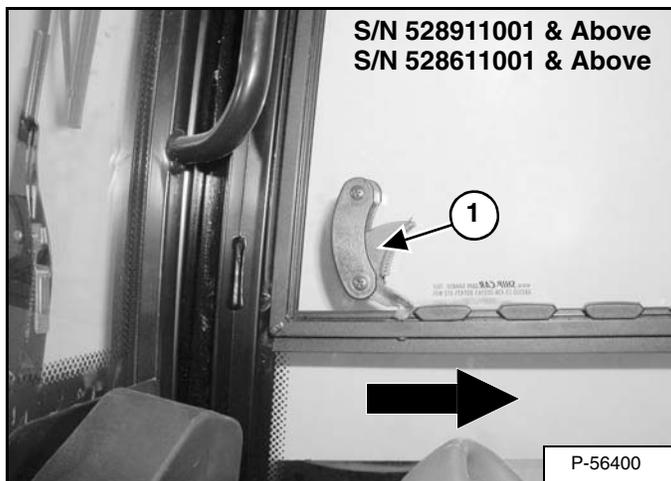


Figure 10-20-4



Press the window latch (Item 1) [Figure 10-20-3] & [Figure 10-20-4] together and slide the window to the rear of the excavator.

Figure 10-20-5



Exit through the window [Figure 10-20-5].

TRANSPORTING THE EXCAVATOR

When transporting the machine, observe the rules, motor vehicle laws and vehicle limit ordinances. Use a transport and towing vehicle of adequate length and capacity.

Secure the parking brakes and block the wheels of the transport vehicle.

Align the ramps with the center of the transport vehicle. Secure the ramps to the truck bed and be sure ramp angle does not exceed 15 degrees.

Use metal loading ramps with a slip resistant surface.

Use ramps that are the correct length and width, and can support the weight of the machine.

The rear of the trailer must be blocked or supported when loading or unloading the excavator to prevent the front of the transport vehicle from raising.

Determine the direction of the track movement before moving the machine (blade forward).

Figure 10-30-1



Move the machine forward onto the transport vehicle [Figure 10-30-1].

Do not change direction of the machine while it is on the ramps.

Lower the boom, arm and bucket to the transport vehicle.

Stop the engine and remove the key.

Put blocks at the front and rear of the tracks.

Figure 10-30-2

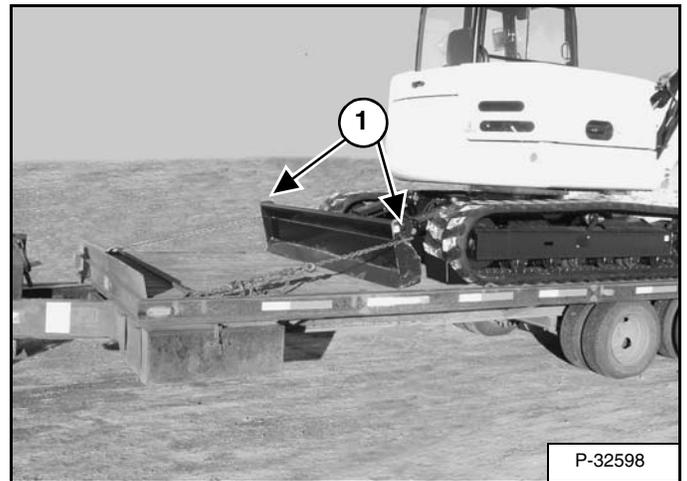


Figure 10-30-3



Fasten chains to the front corners of the blade (Item 1) [Figure 10-30-2] and to the tie down loop at the rear track frame (both sides) (Item 1) [Figure 10-30-3] to prevent it from moving when going up or down slopes, or during sudden stops.

Use chain binders to tighten the chains and then safely tie the chain binder levers to prevent loosening.

! WARNING

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

W-2058-0807

Product: 2010 Bobcat 442 Compact Excavator Service Repair Workshop Manual(S/N 522311001 & Above,S/N 528911001 & A
Full Download: <https://www.arepairmanual.com/downloads/2010-bobcat-442-compact-excavator-service-repair-workshop-manuals-n-522311001-above-s-n-528911001-above-s-n-528611001-above/>



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