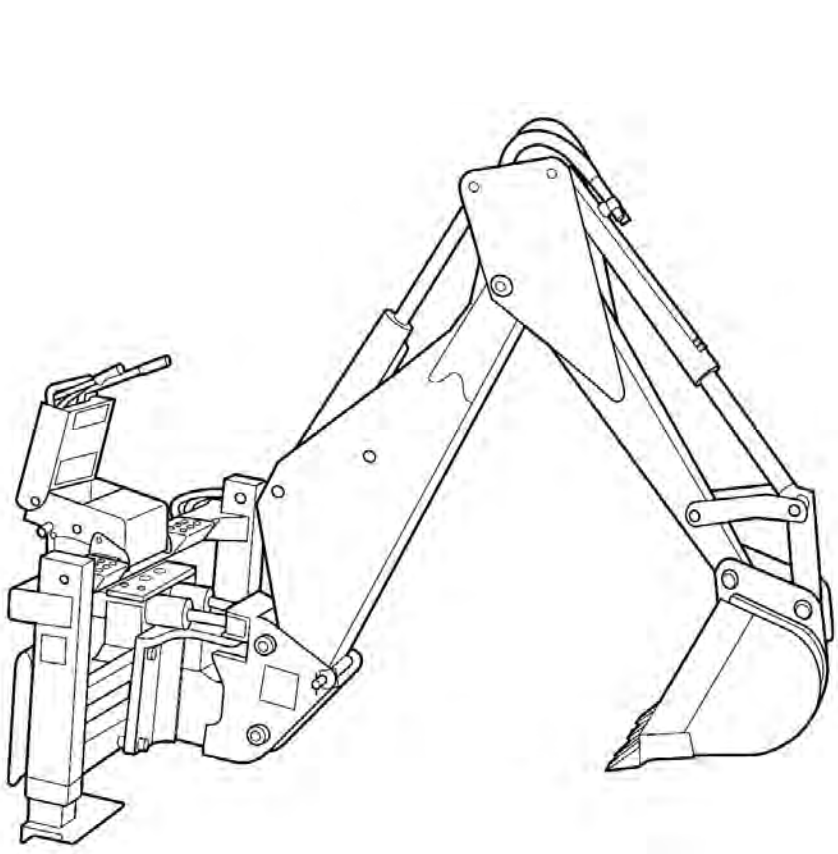
625S BACKHOE

S/N A6TW00101 & Above

Bobcat®

Service Manual



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Bobcat

6986908-EN (06-08)

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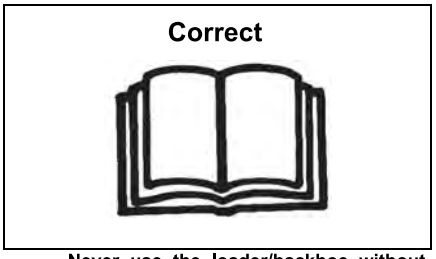
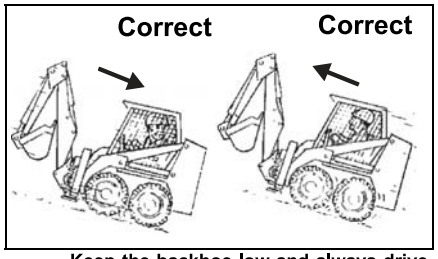
WARNINGS FOR BACKHOE OPERATION

WARNING **Operators must have instructions before running the machine. Untrained operators can cause injury or death.**

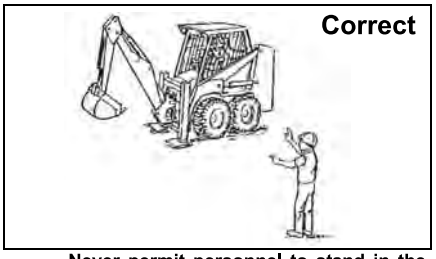
⚠ **Safety Alert Symbol. This symbol with a warning statement means: "Warning, be alert! Your safety is involved! Carefully read the message that follows."**



⚠ Never use the loader/backhoe without instructions. Read the Operation & Maintenance Manual for the backhoe and the Operator's Handbook for loader. Ask the dealer about equipment for your application.



⚠ Keep the backhoe low and always drive with the backhoe pointing uphill when moving on slopes.

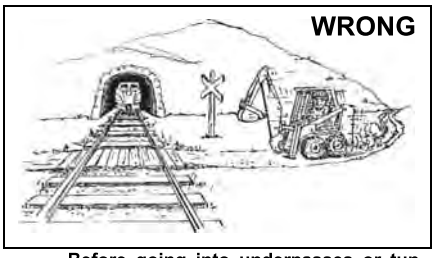


⚠ Never permit personnel to stand in the maximum swing reach area while operating the backhoe.

⚠ Always swing the backhoe to the uphill side. Use extra care when downhill dumping is necessary.

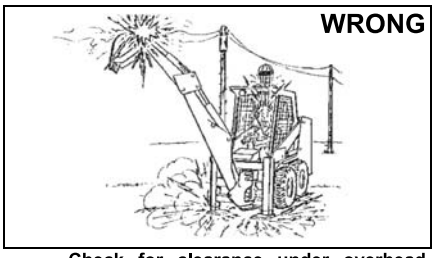
⚠ Keep the machine level when operating the backhoe on slopes.

⚠ Always use the backhoe stabilizers.

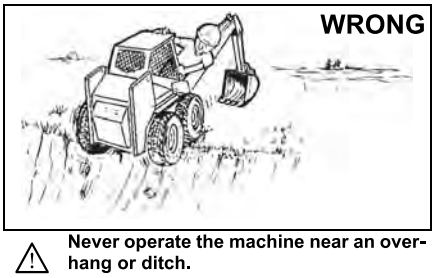


⚠ Before going into underpasses or tunnels, check for obstacles.

⚠ Never swing the bucket over other personnel.

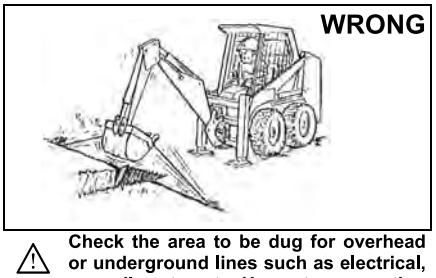


⚠ Check for clearance under overhead lines.

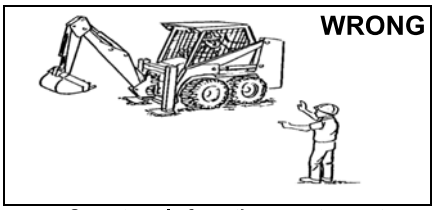


⚠ Never operate the machine near an overhang or ditch.

⚠ Never dig under the backhoe stabilizers.



⚠ Check the area to be dug for overhead or underground lines such as electrical, gas, oil, water, etc. Use extreme caution in areas where present. Check with local authorities before digging.

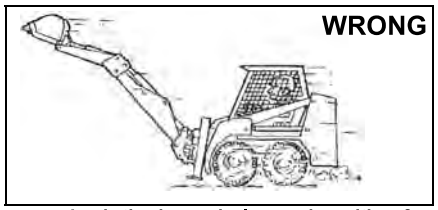


⚠ Operate only from the operator seat.

⚠ Never use the controls as handholds.

⚠ Always lower the backhoe to the ground, stop the loader engine, remove the key and lock the brake before leaving machine.

⚠ Leave the backhoe with the controls in neutral position.



⚠ Lock the boom in lowered position for transporting.

Safety equipment

The Bobcat backhoe attachment must be equipped with safety items necessary for each job. Ask your dealer about attachments and accessories: (1) CONTROL LOCKOUT SYSTEM, (2) BACKHOE BOOM LOCK PIN (replace if damaged), (3) SAFETY SIGNS (DECALS) (replace if damaged).

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Thanks very much for your reading,

Want to get more information,

Please click here, Then get the complete manual

NOTE:

If there is no response to click on the link above, please download the PDF document first, and then click on it.

Have any questions please write to me:
admin@servicemanualperfect.com

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FOREWORD

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

BACKHOE IDENTIFICATION. IV

DELIVERY REPORT III

SERIAL NUMBER LOCATION. III

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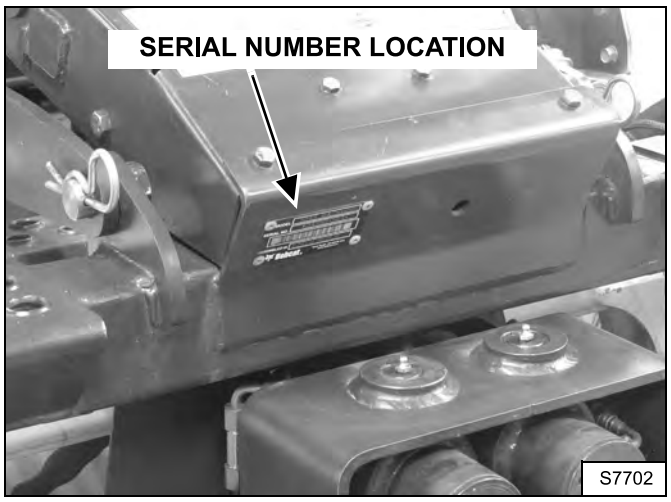
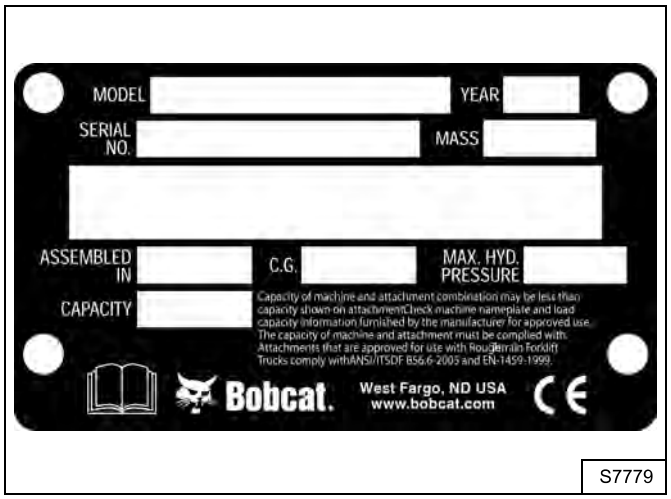
SERIAL NUMBER LOCATION

Figure 1



Always use the serial number of the Backhoe 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]**.

Figure 2



DELIVERY REPORT

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

Figure 3

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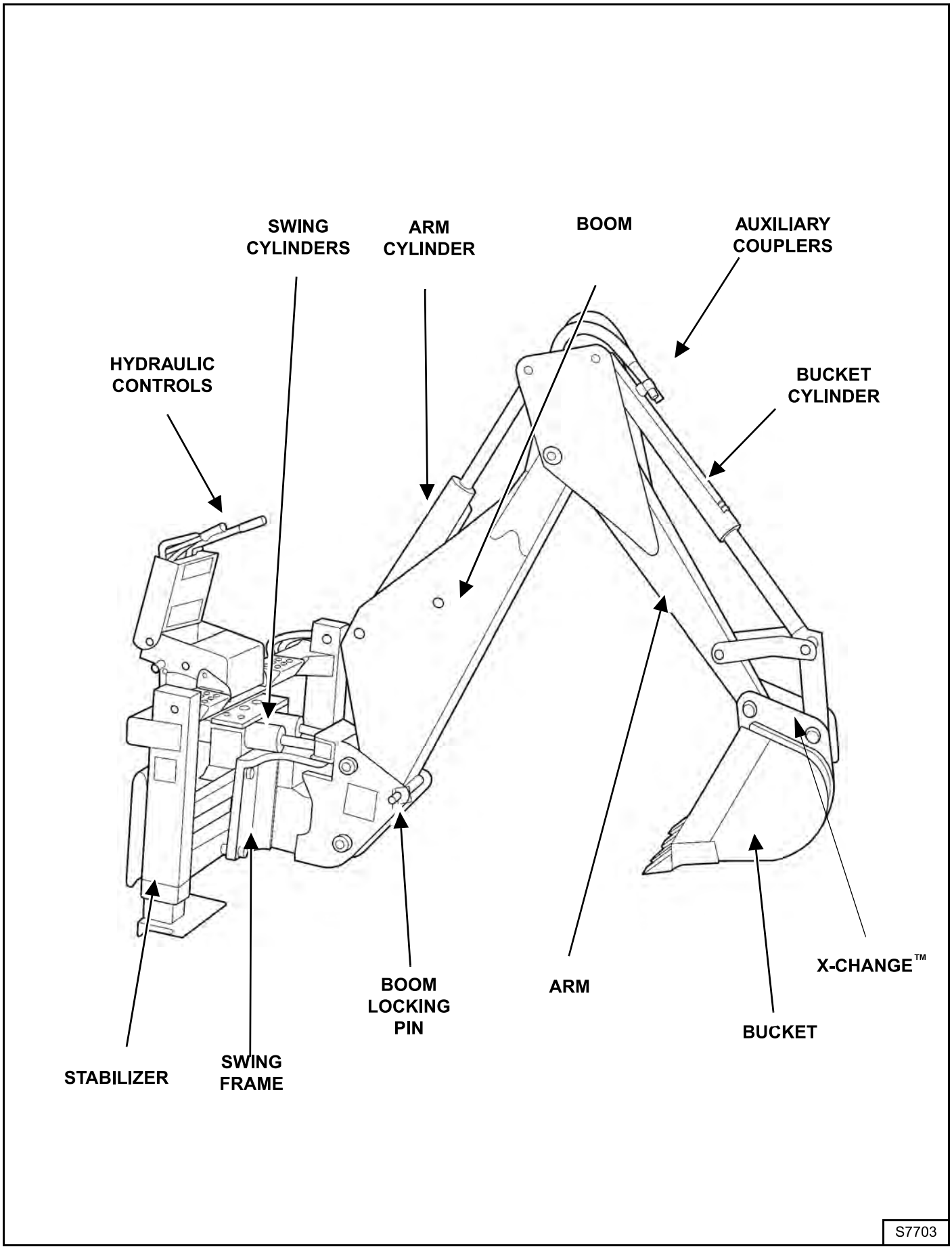
BACKHOE IDENTIFICATION

Figure 4



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SAFETY

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SAFETY INSTRUCTIONS

Safe Operation Is The Operator's Responsibility

Safety Alert Symbol

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

WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

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 Bobcat machine and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the attachment.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine load capacities. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the *Call Before You Dig* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection, Special Applications Kits or a Front Window Guard are required for some work. See your Bobcat dealer about Bobcat Safety equipment for your machine.

SI ATT-0208

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Use Safety Rules

- Read and follow instructions in the machine and the attachment's Operation & Maintenance Manual before operating.
- Check for underground lines before operating attachment (if applicable).
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
- Check that the Bob-Tach levers are in the locked position and the wedges are fully engaged into the holes of the attachment (if applicable).
- Check that the attachment is securely fastened to the machine.
- Make sure all the machine controls are in the NEUTRAL position before starting the machine.
- Operate the attachment only from the operator's position.
- Operate the attachment according to the Operation & Maintenance Manual.
- When learning to operate the attachment, do it at a slow rate in an area clear of bystanders.
- DO NOT permit personnel to be in the work area when operating the machine and attachment.
- The attachment must be used ONLY on approved machines. See your Bobcat dealer for updated list of approved attachments for each machine model.
- DO NOT modify equipment or add attachments that are not approved by the manufacturer.
- DO NOT make any adjustments or repairs on the machine or attachment while the engine is running.
- Keep shields and guards in place. Replace if damaged.

Call Before You Dig

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.).

Avoid Silica Dust

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.

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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).

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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.

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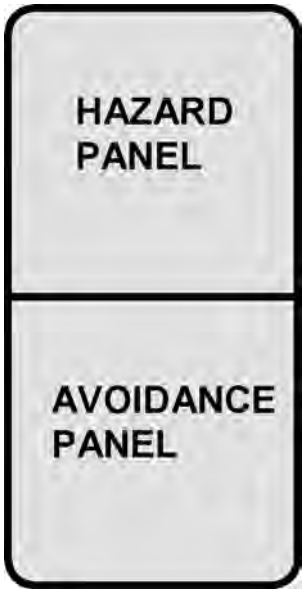
SAFETY SIGNS

Safety signs are used to alert the equipment operator or service person to hazards that may be encountered in the use and maintenance of the equipment. The location and description of the safety signs are detailed in this section. Please become familiarized with all safety signs installed on the Backhoe Attachment.
The format for these safety signs is shown below:

- Vertical configuration



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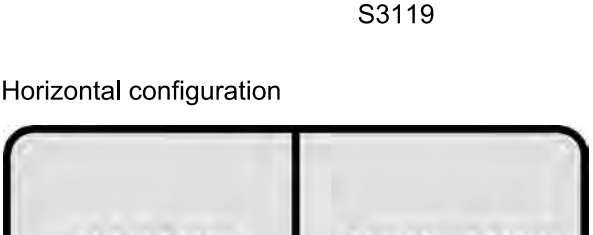
- Horizontal configuration



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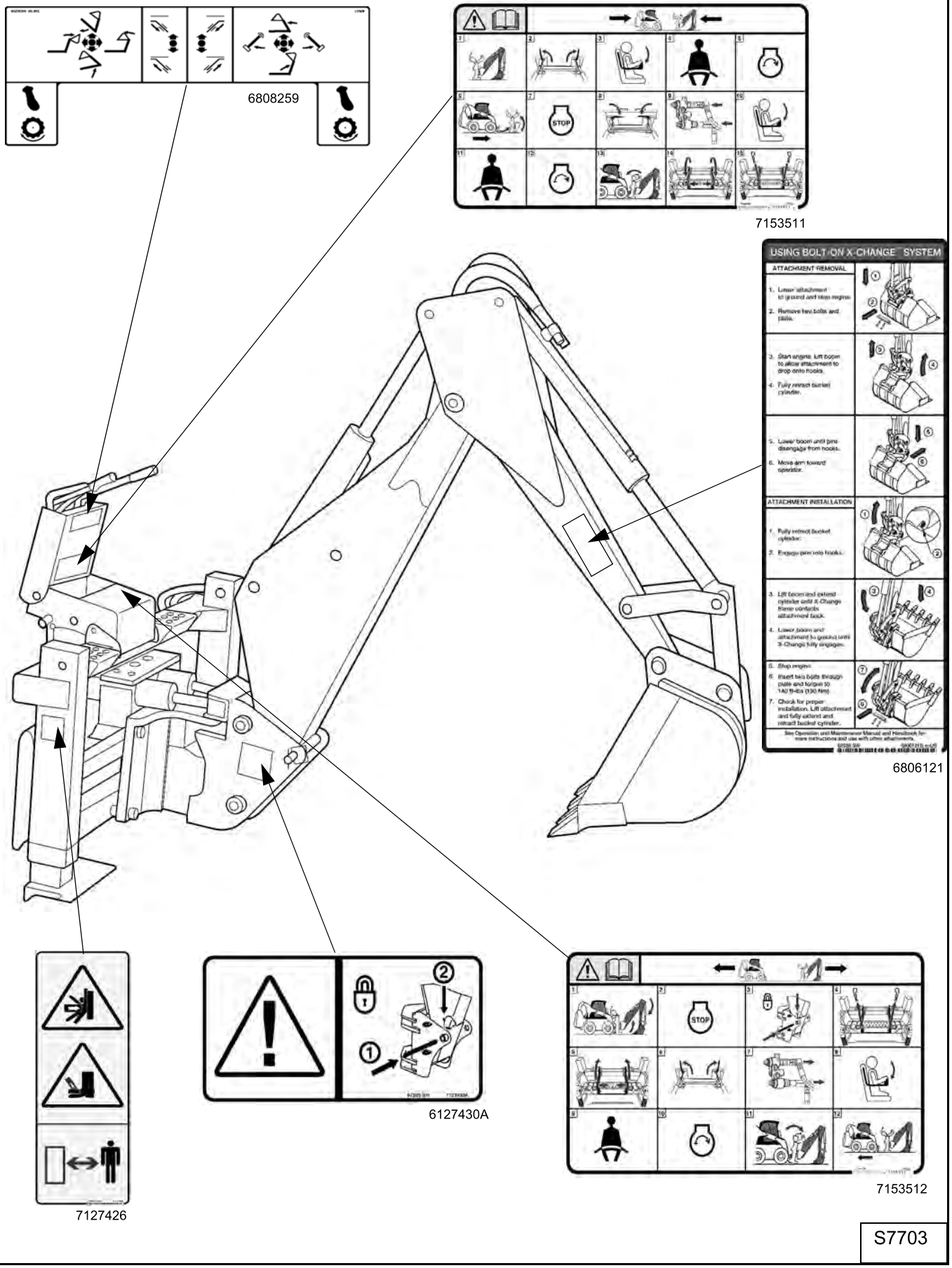
MACHINE SIGNS (DECALS)

Follow the instructions on all the Machine Signs (Decals) that are on the Backhoe. Replace any damaged safety signs and be sure they are in the correct locations. Machine signs are available from your Bobcat loader dealer.



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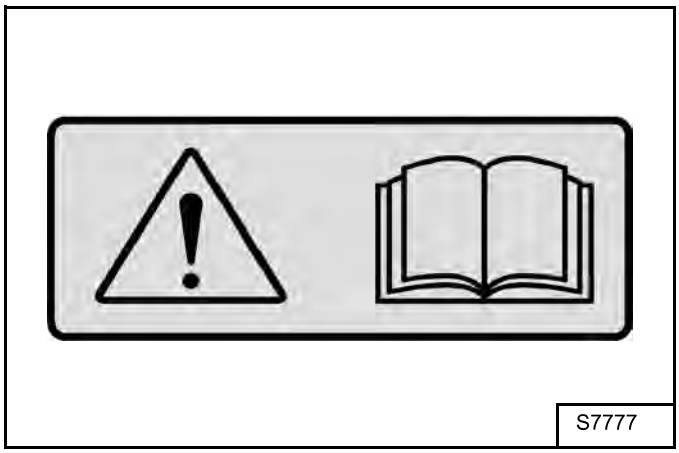
GENERAL HAZARD WARNING

This safety sign is located on the Backhoe attachment installation and removal decal.



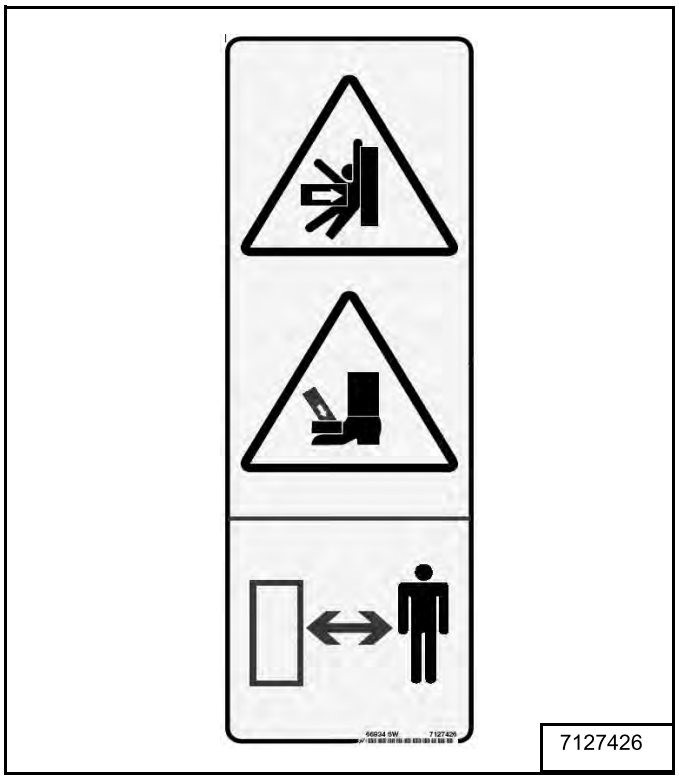
WARNING

AVOID INJURY AND DEATH

Read and understand the Operation and Maintenance Manual for more information.

CRUSHING HAZARD

This safety sign is located on the Backhoe stabilizers (both sides).



WARNING

CRUSHING HAZARD CAN CAUSE SERIOUS INJURY OR DEATH

- **Keep out of swing area.**
- **Operate Backhoe from operator's position only.**
- **Keep away from stabilizers**

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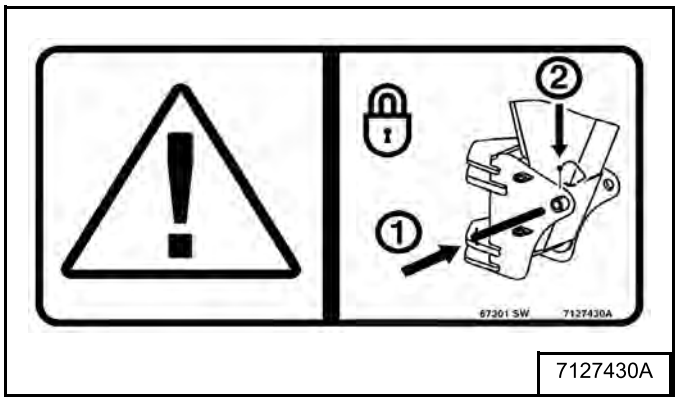
BOOM LOCK PIN FOR TRANSPORT

This safety sign is located on the Backhoe swing frame near the boom lock pin.



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⚠ WARNING

AVOID INJURY OR DEATH

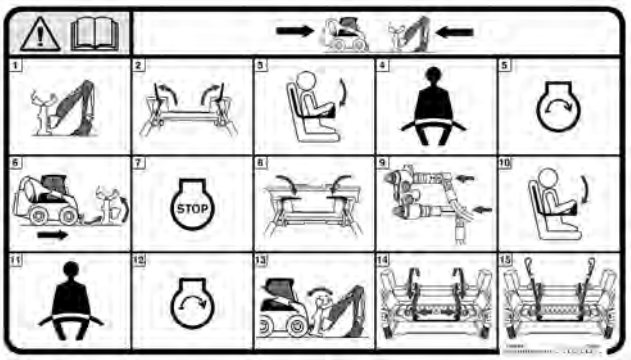
Boom lock pin must be in the transport position when transporting the loader/Backhoe.

With the Backhoe boom fully raised:

- **Slide boom lock pin through bushings in swing frame.**
- **Install retaining pin through bushing and boom lock pin.**

ATTACHING THE BACKHOE

This safety sign is located on the upper side of the Backhoe hydraulic control unit.



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1. Make sure the Backhoe is in the position indicated with the boom lock pin installed.
2. Disengage the Bob-Tach wedges.
3. Enter the loader and lower the seat bar.
4. Fasten the seat belt.
5. Start the engine.
6. Drive the loader forward until the Bob-Tach is in the Backhoe mounting frame.
7. Stop the engine.
8. Lock the Bob-Tach levers. The Bob-Tach wedges must extend through the holes of the Backhoe mounting frame.
9. Connect the auxiliary hoses and electrical connector from the Backhoe to the loader.
10. Return to loader seat and lower seat bar.
11. Fasten seat belt.
12. Start the engine.
13. Tilt the Bob-Tach backward.
14. Bring the arm plates of the Backhoe in forward position and connect the arm plates with the mounting pins of the Loader bracket.
15. Secure the arm plates with the washer and retainer pin. Stop the engine before leaving the loader.

Note: Refer to operating instructions for more illustrated and detailed information regarding the attaching of the Backhoe.

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