Product: BACKHOE LOADER
Model: 432E BACKHOE LOADER BXE
Configuration: 432E Backhoe Loader Parallel Lift Side Shift Boom BXE00001-UP (MACHINE) POWERED BY 3054C Engine

#### Operation and Maintenance Manual 420E, 430E, 432E, 434E, 442E and 444E Backhoe Loaders Media Number -SEBU7687-10 Publication Date -01/02/2015

Date Updated -26/02/2015

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## Foreword

## **Literature Information**

This manual should be stored in the operator's compartment in the literature holder or seat back literature storage area.

This manual contains safety information, operation instructions, transportation information, lubrication information and maintenance information.

Some photographs or illustrations in this publication show details or attachments that can be different from your machine. Guards and covers might have been removed for illustrative purposes.

Continuing improvement and advancement of product design might have caused changes to your machine which are not included in this publication. Read, study and keep this manual with the machine.

Whenever a question arises regarding your machine, or this publication, please consult your Cat dealer for the latest available information.

### Safety

The safety section lists basic safety precautions. In addition, this section identifies the text and locations of warning signs and labels used on the machine.

Read and understand the basic precautions listed in the safety section before operating or performing lubrication, maintenance and repair on this machine.

## Operation

The operation section is a reference for the new operator and a refresher for the experienced operator. This section includes a discussion of gauges, switches, machine controls, attachment controls, transportation and towing information.

Photographs and illustrations guide the operator through correct procedures of checking, starting, operating and stopping the machine.

Operating techniques outlined in this publication are basic. Skill and techniques develop as the operator gains knowledge of the machine and its capabilities.

### Maintenance

The maintenance section is a guide to equipment care. The Maintenance Interval Schedule (MIS) lists the items to be maintained at a specific service interval. Items without specific intervals are listed under the "When Required" service interval. The Maintenance Interval Schedule lists the page number for the step-by-step instructions required to accomplish the scheduled maintenance. Use the Maintenance Interval Schedule as an index or "one safe source" for all maintenance procedures.

#### **Maintenance Intervals**

Use the service hour meter to determine servicing intervals. Calendar intervals shown (daily, weekly, monthly, etc.) can be used instead of service hour meter intervals if they provide more convenient servicing schedules and approximate the indicated service hour meter reading. Recommended service should always be performed at the interval that occurs first.

Under extremely severe, dusty or wet operating conditions, more frequent lubrication than is specified in the maintenance intervals chart might be necessary.

Perform service on items at multiples of the original requirement. For example, at every 500 service hours or 3 months, also service those items listed under every 250 service hours or monthly and every 10 service hours or daily.

## **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.

Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

## **Certified Engine Maintenance**

Proper maintenance and repair is essential to keep the engine and machine systems operating correctly. As the heavy duty off-road diesel engine owner, you are responsible for the performance of the required maintenance listed in the Owner Manual, Operation and Maintenance Manual, and Service Manual.

It is prohibited for any person engaged in the business of repairing, servicing, selling, leasing, or trading engines or machines to remove, alter, or render inoperative any emission related device or element of design installed on or in an engine or machine that is in compliance with the regulations (40 CFR Part 89). Certain elements of the machine and engine such as the exhaust system, fuel system, electrical system, intake air system and cooling system may be emission related and should not be altered unless approved by Caterpillar.

## **Machine Capacity**

Additional attachments or modifications may exceed machine design capacity which can adversely affect performance characteristics. Included would be stability and system certifications such as brakes, steering, and rollover protective structures (ROPS). Contact your Cat dealer for further information.

## **Cat Product Identification Number**

Effective First Quarter 2001 the Cat Product Identification Number (PIN) has changed from 8 to 17 characters. In an effort to provide uniform equipment identification, Caterpillar and other construction equipment manufacturers are moving to comply with the latest version of the product identification numbering standard. Non-road machine PINs are defined by ISO 10261. The new PIN format will apply to all Cat machines and generator sets. The PIN plates and frame marking will display the 17 character PIN. The new format will look like the following:



- 2. Machine Descriptor (characters 4-8)
- 3. Check Character (character 9)

4. Machine Indicator Section (MIS) or Product Sequence Number (characters 10-17). These were previously referred to as the Serial Number.

Machines and generator sets produced before First Quarter 2001 will maintain their 8 character PIN format.

Components such as engines, transmissions, axles, etc. and work tools will continue to use an 8 character Serial Number (S/N).

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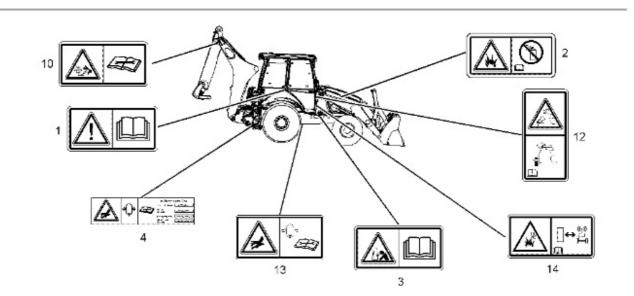
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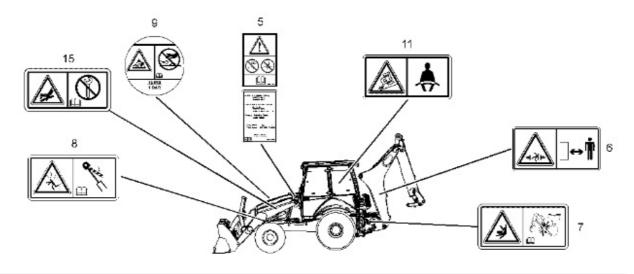
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## Safety Messages

SMCS - 7000; 7405





There are several specific safety messages on this machine. The exact location of the hazards and the description of the hazards are reviewed in this section. Please become familiarized with all safety messages.

Make sure that all of the safety messages are legible. Clean the safety messages or replace the safety messages if you cannot read the words. Replace the illustrations if the illustrations are not legible. When you clean the safety messages, use a cloth, water and soap. Do not use solvent, gasoline, or other harsh chemicals to clean the safety messages. Solvents, gasoline, or harsh chemicals could loosen the adhesive that secures the safety message. Loose adhesive will allow the safety message to fall.

Replace any safety message that is damaged, or missing. If a safety message is attached to a part that is replaced, install a safety message on the replacement part. Any Caterpillar dealer can provide new safety messages.

#### Do Not Operate (1)

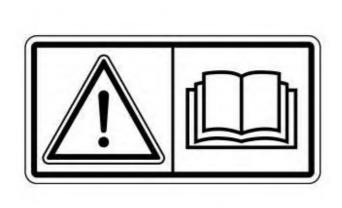


Illustration 2

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This safety message is located under the engine start switch.



Do not operate or work on this machine unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Caterpillar dealer for replacement manuals. Proper care is your responsibility.

No Ether In Air Inlet (2)



g01372254

This safety message is located on the air filter cover.

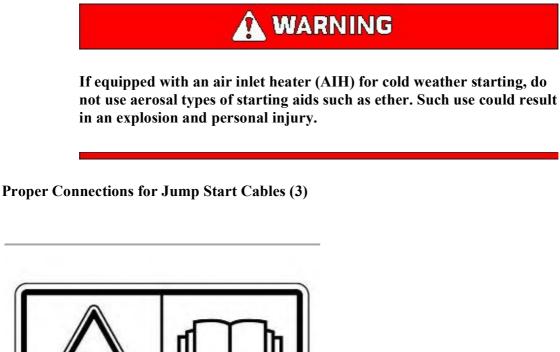


Illustration 4

g01370909

This safety message is located on the inside of the door for the battery compartment.

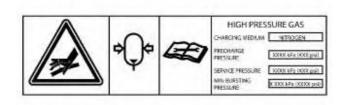


Explosion Hazard! Improper jumper cable connections can cause an explosion resulting in serious injury or death. Batteries may be located in separate compartments. When using jump start cables, always

connect the positive (+) cable from the source to the positive (+) terminal of the battery that is connected to the starter solenoid. Connect the negative (-) cable from the source to the negative (-) terminal of the starter. If the machine is not equipped with a starter negative terminal, connect the negative (-) cable to the engine block. Follow the procedure in the Operation and Maintenance Manual.

#### **High Pressure Accumulator (4)**

This safety message is located on the accumulator for the pilot operated hydraulic controls. This accumulator is located on the frame on the right rear of the machine.

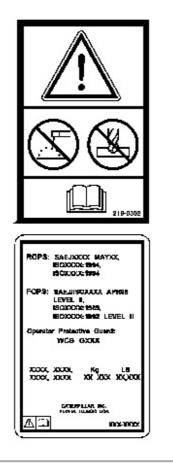


g01374065



Hydraulic accumulator contains gas and oil under high pressure. Improper removal or repair procedures could cause severe injury. To remove or repair, instructions in the service manual must be followed. Special equipment is required for testing and charging.

ROPS (5)

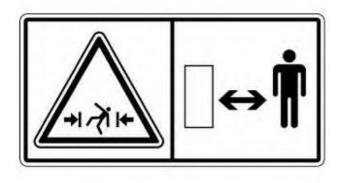


g01113333

This safety message is located on the cab next to the left side door.



**Crush Hazard (6)** 



g01371644

This safety message is located on the boom above the boom foot pin.



No Exit (7)



Illustration 7

g01407377

This safety message is located on the back of the cab.



Crush hazard; This is not an entrance or exit. Stay clear of this area when the machine is operating. Start and operate the backhoe from the operator seat only. Failure to follow these warnings could result in injury or death.

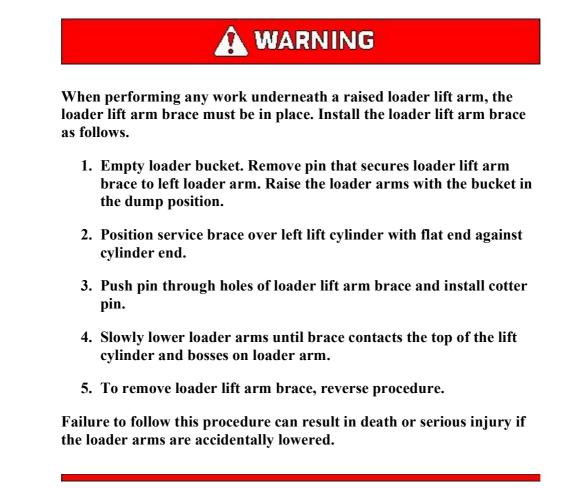
**Brace The Lift Cylinder (8)** 



**Illustration 8** 

g01407376

This safety message is located on the brace for the loader lift arm.



Refer to Operation and Maintenance Manual, "Lift Cylinder Brace - Connect and Disconnect" for more information.

#### **Pressurized System (9)**

This safety message is located on the cooling system filler cap.



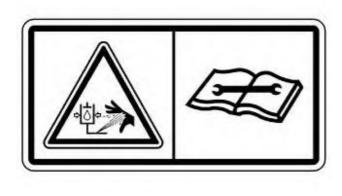
g01370913



Pressurized system: Hot coolant can cause serious burn. To open cap, stop engine, wait until radiator is cool. Then loosen cap slowly to relieve the pressure.

#### High Cylinder Pressure (10)

This safety message is located on both sides of the boom near the connection with the stick.



g01407379

## 

High Pressure Cylinder. Failure to read and follow these instructions can cause rapidly discharging gas and/or hydraulic fluid which can result in death, personal injury and property damage.

Seat Belt (11)

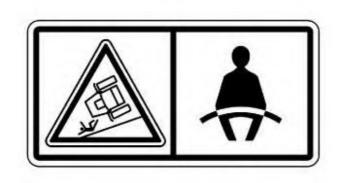


Illustration 9

g01370908

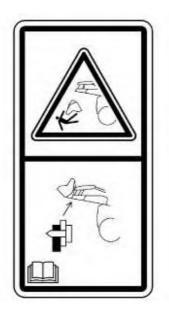
This safety message is located above the engine start switch.



prevent serious injury or death in the event of an accident or machine overturn. Failure to wear a seat belt during machine operation may result in serious injury or death.

#### Quick Coupler (12) (If Equipped)

This safety message is located in the front of the cab on the right side.



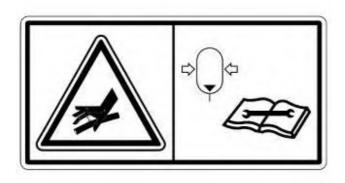
g01411137

# 🛕 WARNING

CRUSH INJURY. COULD CAUSE SERIOUS INJURY OR DEATH. ALWAYS CONFIRM QUICK COUPLER PINS ARE ENGAGED. REFER TO THE OPERATION AND MAINTENANCE MANUAL

#### High Pressure Accumulator (13)

This safety message is located next to the accumulator if the machine is equipped with the option for ride control. The accumulator is located behind the battery box.



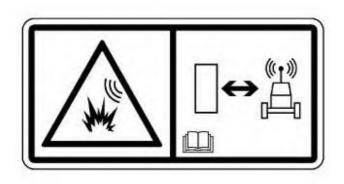
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Hydraulic accumulator contains gas and oil under high pressure. Improper removal or repair procedures could cause severe injury. To remove or repair, instructions in the service manual must be followed. Special equipment is required for testing and charging.

#### **Product Link (14) (If Equipped)**

This safety message is located in the front of the cab on the left post.



g01370917

## 

This machine is equipped with a Caterpillar Product Link communication device which must be deactivated within 12 m (40 ft) of a blast zone. Failure to do so could result in serious injury or death.

High Pressure Fuel (15)



This safety message is located on the fuel rail on the top of the engine.

## 

Do not loosen any high pressure fuel lines when the engine is running. The high pressure in the fuel lines can cause personal injury or death. Wait 60 seconds after the engine has stopped to allow pressure to purge before any service or repair is performed on the engine fuel lines. Product: BACKHOE LOADER
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### **Additional Messages**

SMCS - 7000; 7405

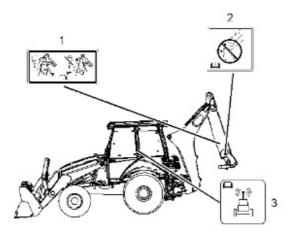
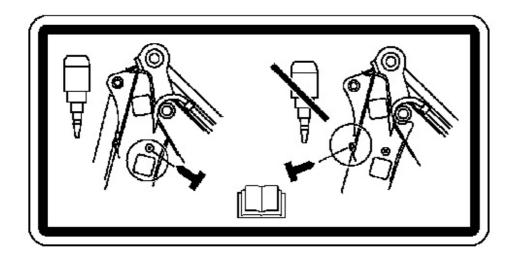


Illustration 1

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#### Pinning of the Extendable Stick (1)

If equipped, this message is located on the stick.



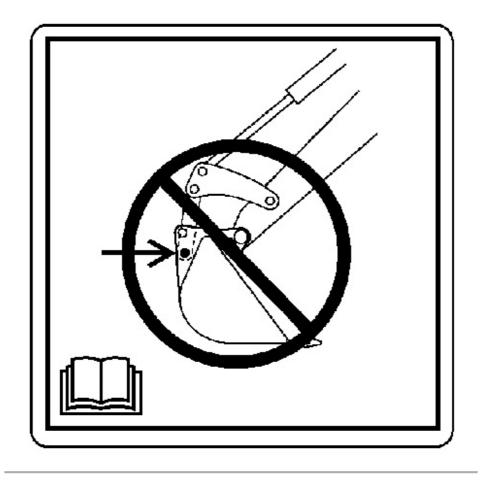
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The E-Stick must be pinned before using attachments, to prevent movement which could cause personal injury.

#### **Improper Location of the Backhoe Bucket (2)**

This message is located by the linkage for the backhoe bucket.



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Improper bucket pin connection can cause machine damage. Make sure the bucket pins are connected properly.

#### Data Privacy (3)

This message is located in the cab.



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