

Product: MULTI TERRAIN LOADER

Model: 267 MULTI TERRAIN LOADER CMP

Configuration: 267 277 Multi Terrain Loader CMP00001-UP (MACHINE) POWERED BY 3034 Engine

## **Operation and Maintenance Manual 247, 257, 267, 277 and 287 Multi Terrain Loaders**

Media Number -SEBU7494-06

Publication Date -01/12/2005

Date Updated -05/12/2005

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## **Foreword**

SMCS - 6700; 7007

## **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:



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Illustration 1

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Where:

1. Caterpillar's World Manufacturing Code (characters 1-3)
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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## **Safety Messages**

SMCS - 7000; 7405

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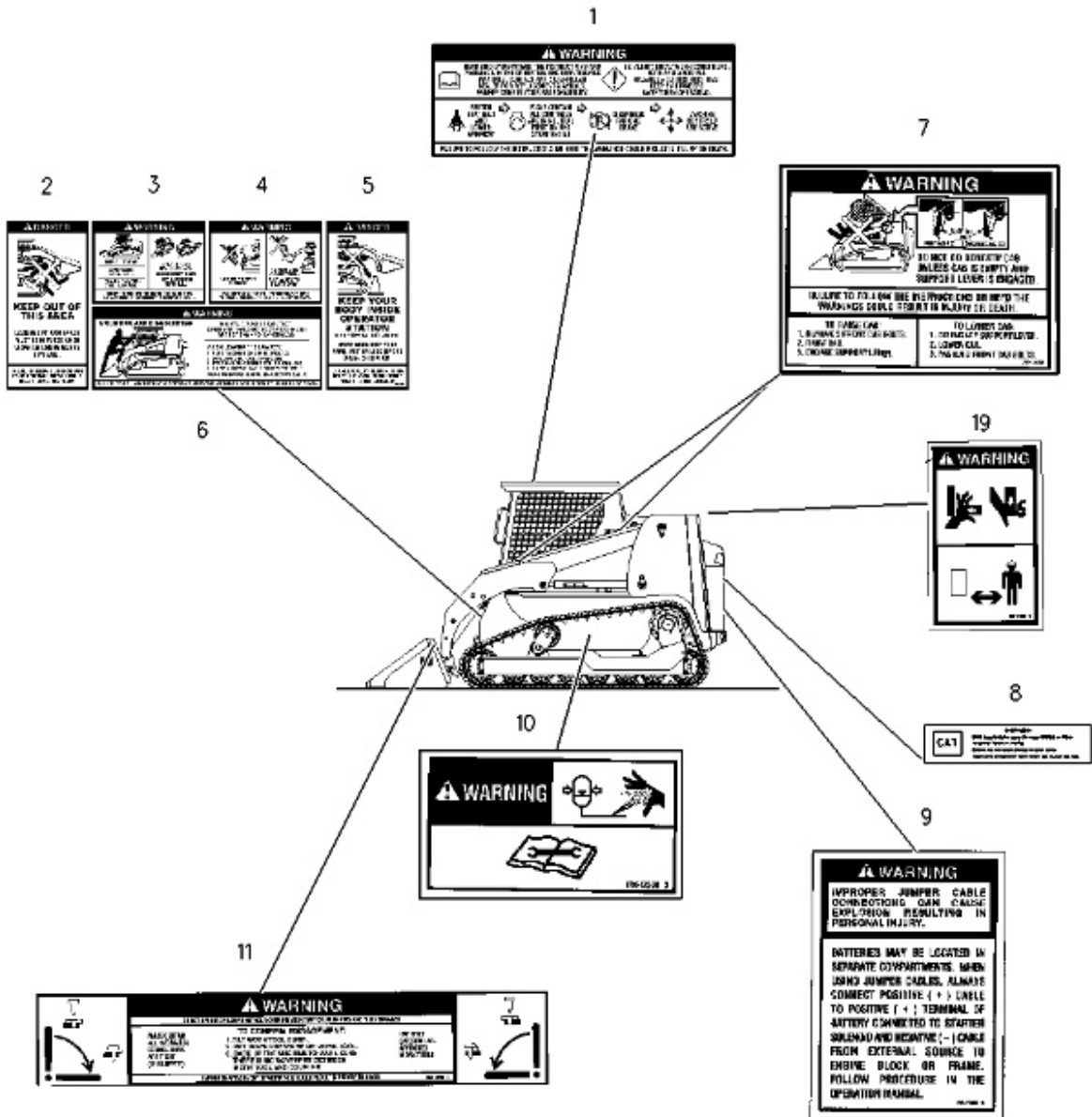


Illustration 1

g01005229

Typical Example

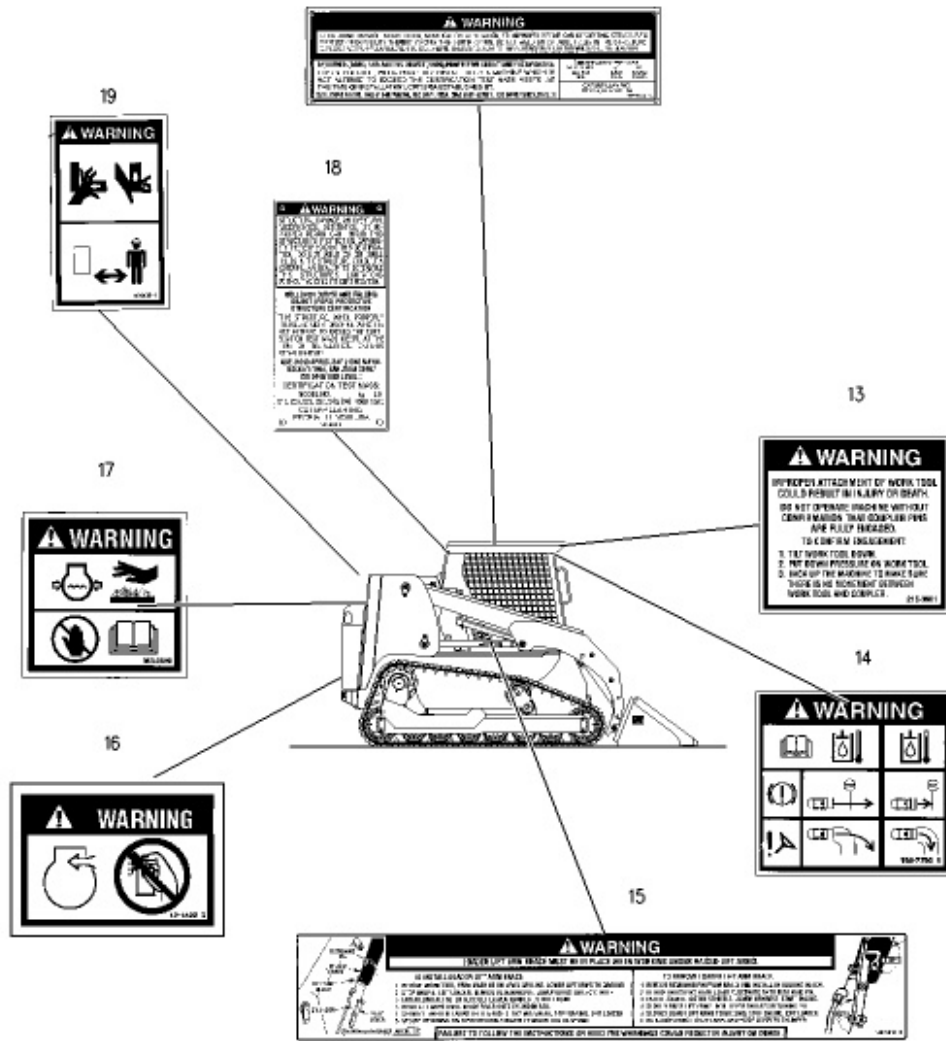


Illustration 2

g01005251

Typical Example

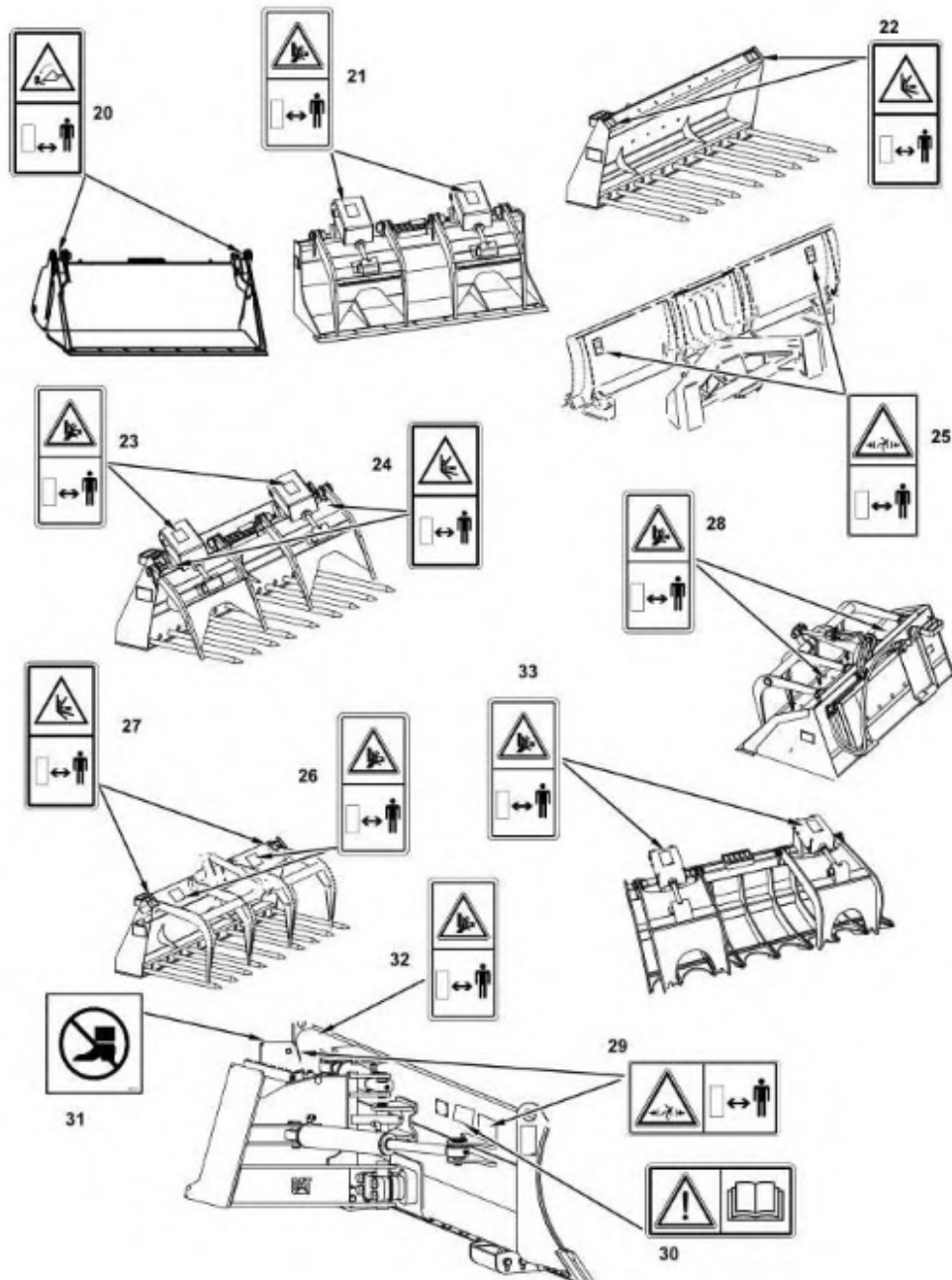


Illustration 3

g01369002

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.

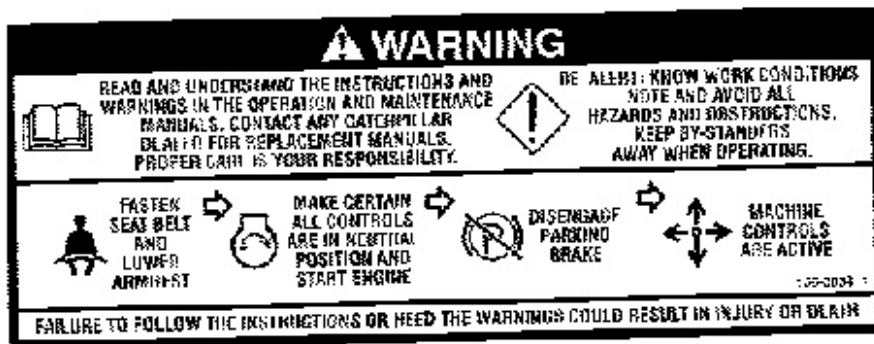
Replace any safety message that is damaged, or missing. If a safety message is attached to a part that is replaced, install a safety message on the replacement part. Any Caterpillar dealer can provide new safety messages.



## Do Not Operate (1)

This warning message is located inside the cab on the left side.

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g00943091



**Read and understand the instructions and warnings in the operation and maintenance manuals. Contact any Caterpillar dealer for replacement manuals. Proper care is your responsibility.**

**Be alert! Know work conditions. Note and avoid all hazards and obstructions. Keep by-standers away when operating.**

**Fasten seat belt and lower armrest.**

**Make certain all controls are in neutral position and start engine.**

**Disengage parking brake.**

**Machine controls are active.**

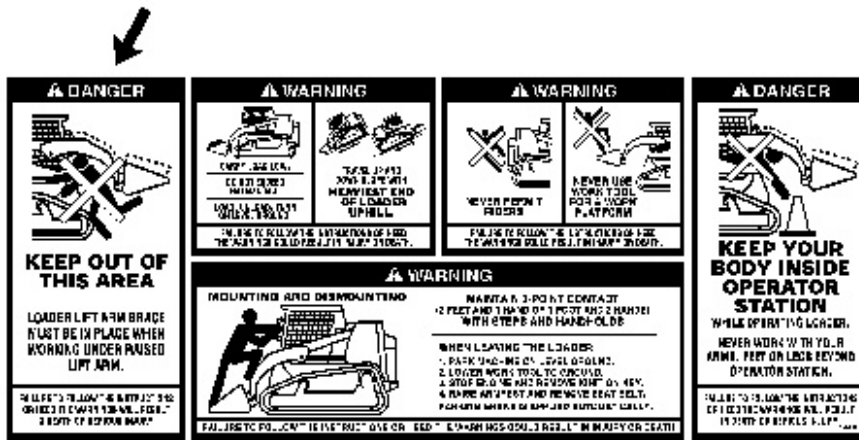
**Failure to follow the instructions or heed the warnings could result in injury or death.**

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## Loader Crushing (2)

This message is located below the operator seat.

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g00943101



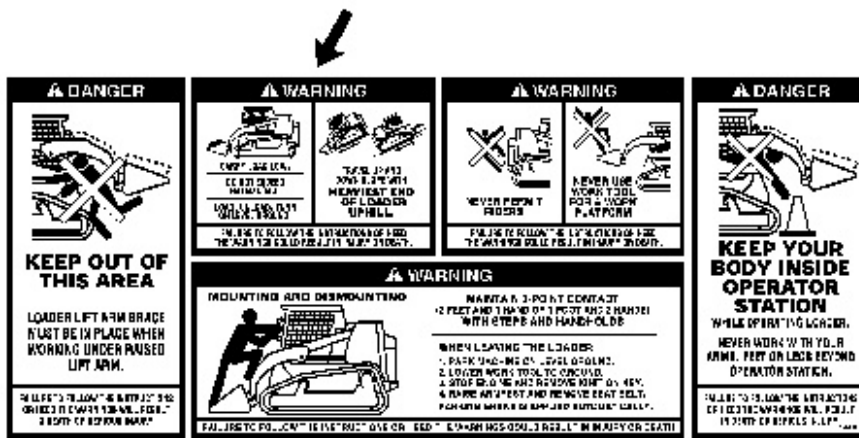
**Keep out of this area**

**Loader lift arm brace must be in place when working under raised lift arm.**

**Failure to follow the instructions or heed the warnings will result in death or serious injury.**

### Carrying a Load (3)

This warning message is located below the operator seat.



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Carry load low.

Do not exceed rated load.

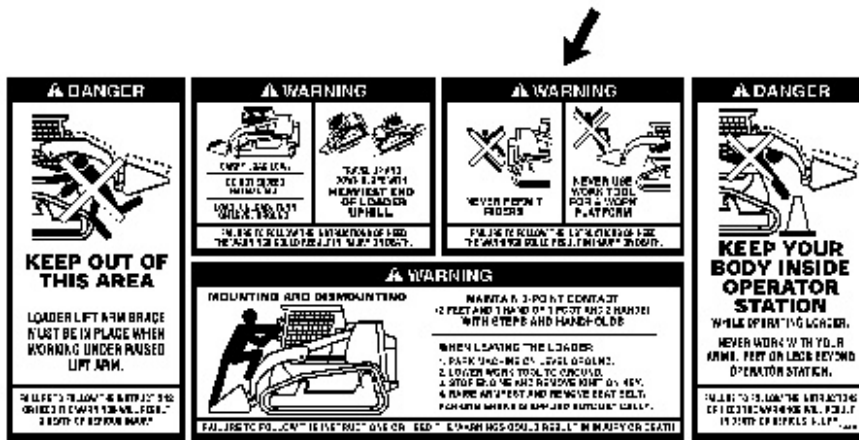
Load, unload, turn on level ground.

Travel up and down slope with heaviest end of loader uphill.

Failure to follow the instructions or heed the warnings could result in injury or death.

#### Never Permit Riders (4)

This warning message is located below the operator seat.



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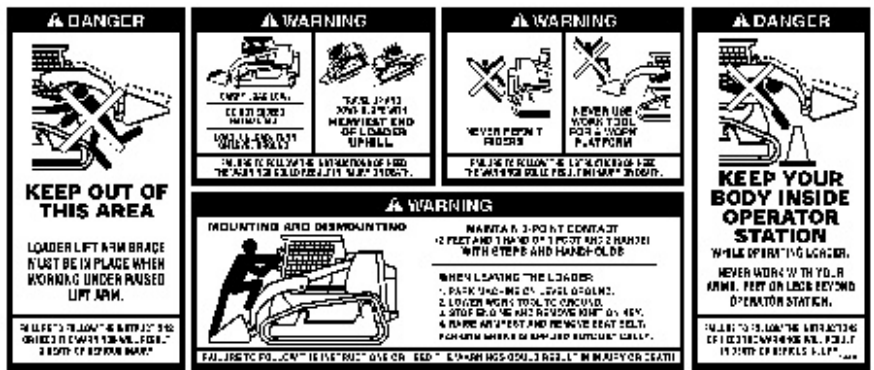
Never permit riders.

Never use work tool for a work platform.

Failure to follow the instructions or heed the warnings could result in injury or death.

## Stay Inside Operator Station (5)

This warning message is located below the operator seat.



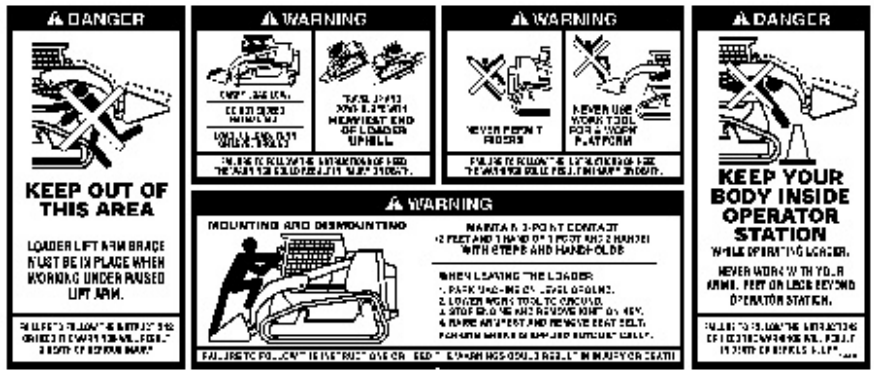
g00943119



Keep your body inside operator station while operating loader.  
 Never work with your arms, feet or legs beyond operator station.  
 Failure to follow the instructions or heed the warnings will result in death or serious injury.

**Mounting and Dismounting (6)**

This warning message is located below the operator seat.



**! WARNING**

**Mounting and Dismounting**

**Maintain 3-point contact (2 feet and 1 hand or 1 foot and 2 hands) with steps and handholds**

**When Leaving Loader:**

- 1. Park machine on level ground**
- 2. Lower work tool to ground**
- 3. Stop engine and remove ignition key**
- 4. Raise arm rest and remove seat belt**

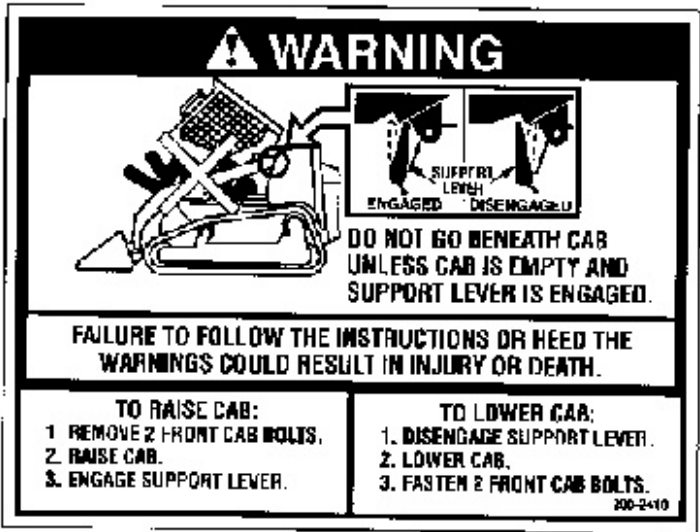
**Park Brake is applied automatically**

**Failure to follow the instructions or heed the warnings could result in injury or death**



**Cab Support (7)**

This warning message is located on the left side of the machine near the cab support lever. This warning message is also located inside the cab on the left side.



 **WARNING**

**Do not go beneath cab unless cab is empty and support lever is engaged.**

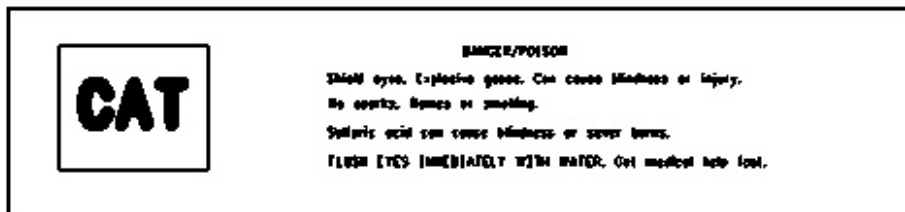
**Failure to follow the instructions or heed the warnings could result in injury or death.**

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**Battery (8)**

This warning message is located on the battery.

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 **WARNING**

**DANGER/POISON**

**Shield eyes, Explosive gases. Can cause blindness or injury.**

**No sparks, flames or smoking.**

**Sulfuric Acid can cause blindness or severe burns.**

**FLUSH EYES IMMEDIATELY WITH WATER. Get medical help fast.**

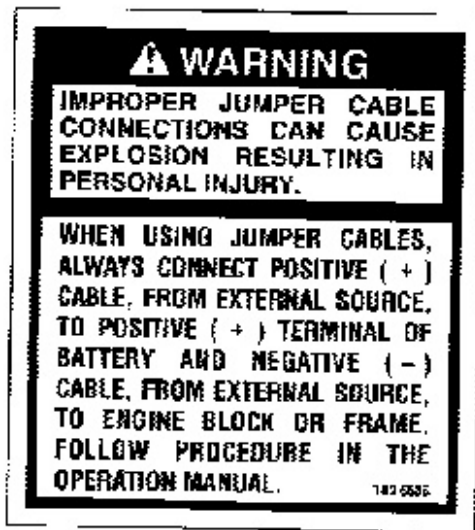
**Keep out of reach of children. Contains sulfuric acid. For medical emergency in USA or Canada contact: 800-458-5924, other countries contact: , 303-893-1322.**

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**Batteries (9)**

This warning message is located on the inside of the engine access door.

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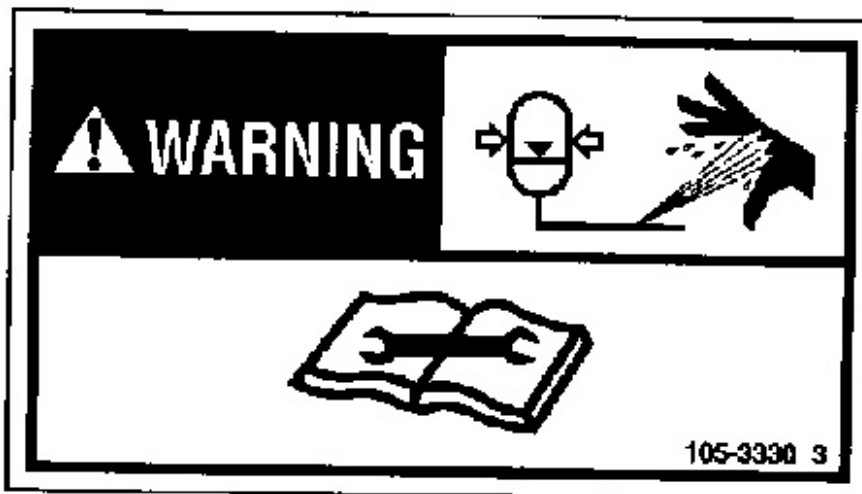
g00943143



Improper jumper cable connections can cause explosion resulting in personal injury. Batteries may be located in separate compartments, always connect positive (+) cable to positive (+) terminal of battery connected to starter solenoid and negative (-) cable from external source to engine block or frame.

### Accumulator (10)

This warning message is located near the accumulator.





## **WARNING**

**Accumulator may contain high pressure oil. Do not service the accumulator or any hydraulic lines until all of the pressure has been relieved. See the Service Manual for proper procedures. Failure to heed this warning could result in injury or death.**

### Work Tool Coupler (11)

This warning message is located on the coupler assembly.



## **WARNING**

**Do not operate machine without confirmation that coupler pins are fully engaged**

**Make certain all hydraulic connections are tight (if equipped)**

**Use only Caterpillar approved work tools**

**Improper attachment of work tool could result in injury or death**

Tilt the work tool downward.

Put down pressure on the work tool.

Move the machine backward. Ensure that the work tool has not separated from the coupler assembly.

### Falling Object Protective Structure (12)

This warning message is located on the right side of the FOPS.



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**Structural damage, an overturn, modification, alteration, or improper repair can impair this structure's protection capability thereby voiding this certification. Do not weld on or drill holes in the structure. Consult a Caterpillar dealer to determine this structure's limitations without voiding its certification.**

**This structure, when properly installed on a machine meets, at the time of installation, criteria established by: TOP GUARD: SAE J231 JAN 81, "ISO 3449 Level II".**

**Work Tool Coupler (13)**

This warning message is located inside the cab near the hydraulic quick coupler control.



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**Improper Attachment of the Work Tool could result in injury or death.**

**Do not operate the machine without confirmation that the coupler pins are fully engaged. Follow the operating procedures in the Operation and Maintenance Manual.**

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Tilt the work tool downward.

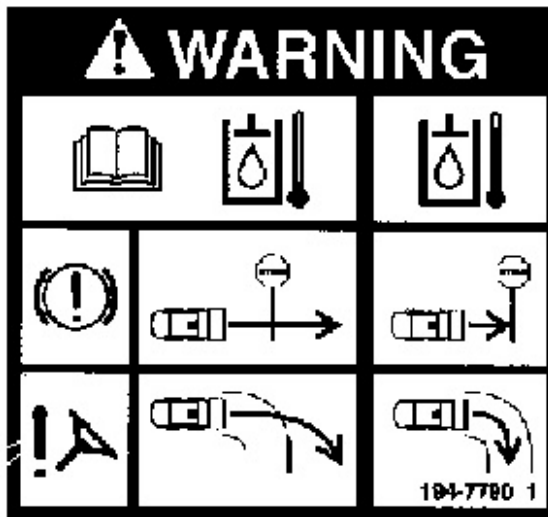
Put down pressure on the work tool.

Move the machine backward. Ensure that the work tool has not separated from the coupler assembly.

#### **Machine Operation in Cold Weather (14)**

This warning message is located inside the cab on the right side.

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## **WARNING**

**The braking and steering system of this machine react differently when the hydraulic oil is cold. Operating the machine with cold hydraulic oil requires extra stopping and turning clearances. Failure to follow the instructions or heed the warnings could result in injury or death.**

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Refer to Operation and Maintenance Manual, "Engine Starting" for information on machine preparation for cold weather.

### **Brace for the Loader Lift Arms (15)**

This warning message is located on the brace for the loader lift arms. The illustration may vary depending on the machine that is being serviced. However, the location of the label will remain unchanged.

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