

330 / 430 LOG LOADER

S/N 972019 – 90CA4159

S/N 972019 – 90CB4146

OPERATOR'S MANUAL 330 / 430 LOG LOADER OMF284412

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.



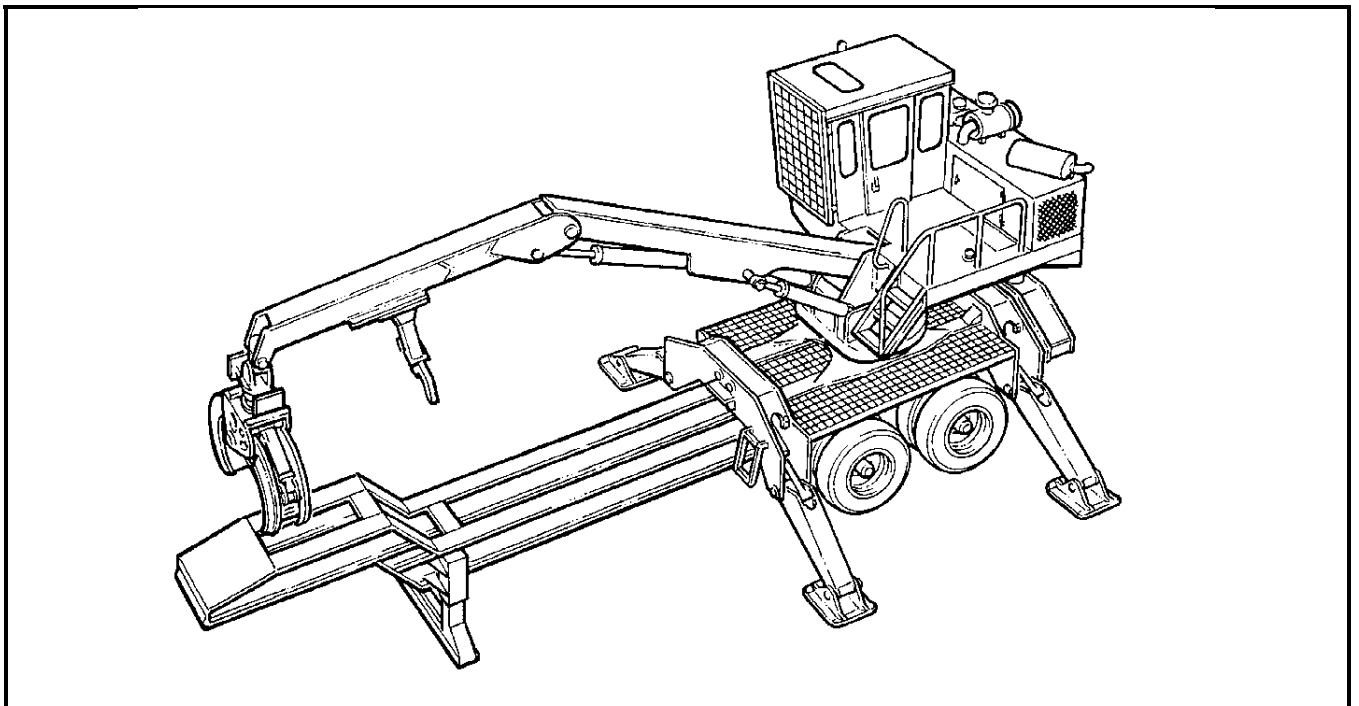
WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Worldwide Construction and Forestry Division

English

Operator, Maintenance and Specification Manual



Model 330 and 430 Loaders

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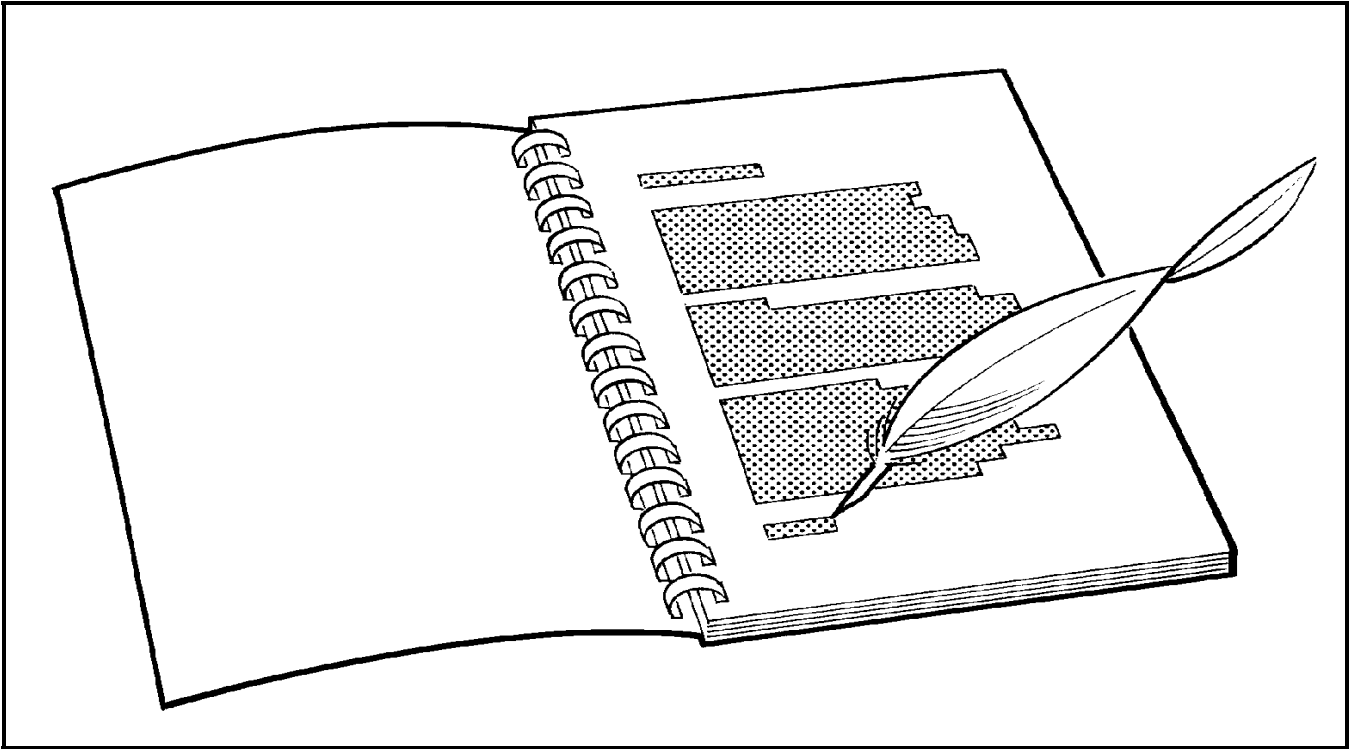
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1. Introduction



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1.1 Foreword

To assist the operator in becoming familiar with the many features of the Timberjack model 330 or 430 loader, and thereby quickly become proficient in the operation and periodic maintenance procedures, this manual is provided with detailed operating and service instructions as well as safety information and equipment data.

Throughout this manual, references are made to the front, rear, left and right side of the machine. Consider the machine a two-part unit where the platform and outriggers constitute the base, and the superstructure, including the booms, constitute the turntable. On the base, the front end is that end pointing toward the cab of the truck or neck of the trailer on which the loader is mounted with the auxiliary hose port connections facing forward. The left and right sides of the base are determined from a position behind the truck or trailer looking forward. On the turntable the booms are at the front, and the left and right hand sides are determined from a seated position in the operator's seat facing the booms.



Where applicable, throughout the text, "Safety Alert" symbols have been used to indicate important safety measures. Read carefully, understand, and follow these instructions to prevent hazardous situations that could lead to risk of personal injury.

The instructions and procedures in this manual cover the Timberjack model 330 and 430 loader with the most commonly used options; therefore pictorial presentation in some areas may vary slightly from the actual machine. This variation, however, does not have any impact on the accuracy of the written information.

The information contained in this manual is current at the time of publication; however, continuing product improvement may result in changes to the machine which are not covered. Should information regarding such changes or any further information on the vehicle be required, please contact your Timberjack Inc. dealer.

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1.2 Model and Serial Number Record

In order to identify your machine and its components correctly when communicating with your Timberjack Inc. dealer, please record the model and serial numbers below and refer to them when ordering Service Parts.

Machine

Model No: _____

Serial No: _____

Engine

Model No: _____

Serial No: _____

**Swing Drive
Gearbox**

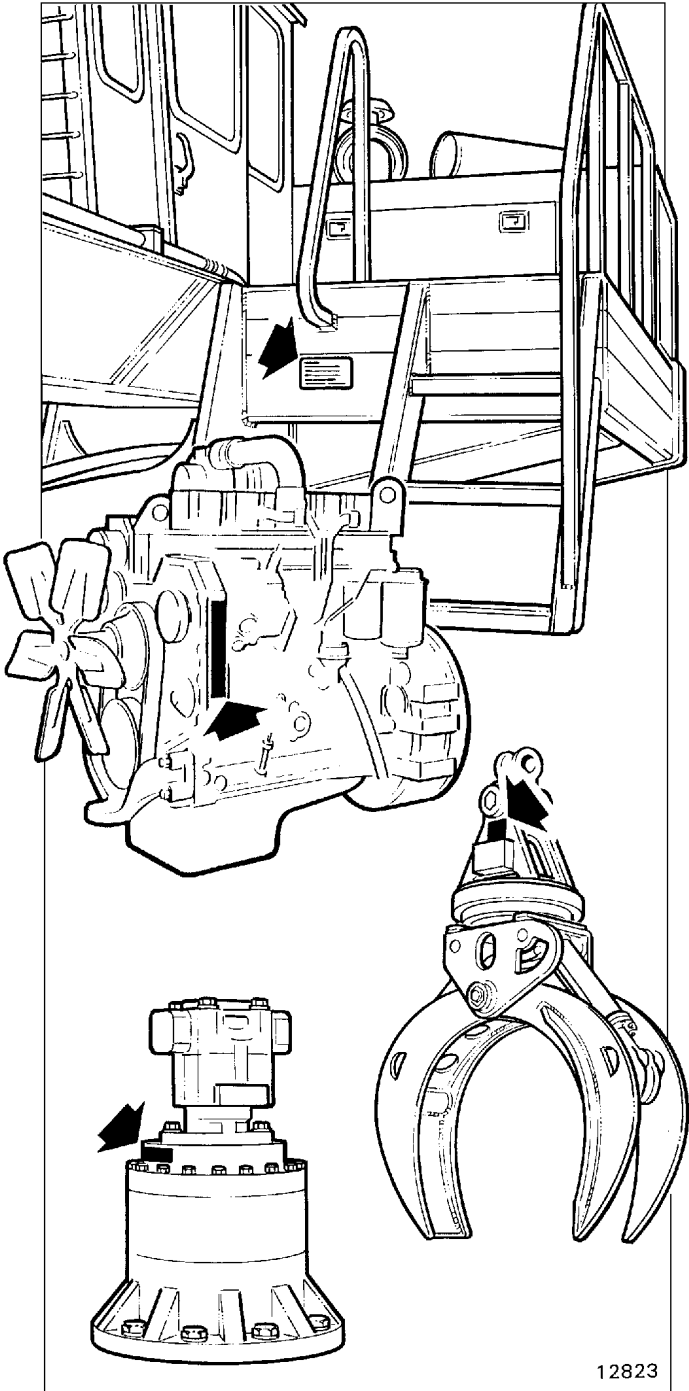
Model No: _____

Serial No: _____

Grapple

Model No: _____

Serial No: _____



1.3 Non-approved Field Product Changes

Changes of any kind to the Timberjack Inc. product including the fitting of any unauthorized attachments could affect the integrity of the product, its stability, or its ability to perform as designed or intended.

If any person or organization modifies or contributes in any way to unauthorized modification, the person or organization will be deemed to have assumed the risk involved with such modification and may be deemed negligent in creating a dangerous situation resulting from such action.

IT IS TIMBERJACK INC. POLICY THAT NO CHANGES ARE TO BE MADE TO ITS PRODUCTS INCLUDING DELETIONS OR ADDITIONS OTHER THAN A TIMBERJACK APPROVED OPTION FITTED IN THE FACTORY APPROVED MANNER.

Where changes are made without the official approval as described above, and Timberjack Inc. becomes involved in suit arising out of such change, Timberjack Inc. will protect its interest by taking whatever action is appropriate.

Options or changes are only officially approved in the following form:

Failure to adhere to this policy NULLIFIES and VOIDS both the product warranty policy and the certification on any safety items installed on the modified machine.

- a) Standard options for that product shown or listed on a current, printed specification sheet, price list, parts manual, or product literature issued by Timberjack Inc.

Non-approved product changes also nullify warranties given to Timberjack Inc. by its component manufacturers.

Timberjack Inc. disclaims responsibility for any situation that may arise as a result of unauthorized change to its product.

Timberjack Inc.
Woodstock, Ontario, Canada
April, 1996.

1.4 Loader Installation

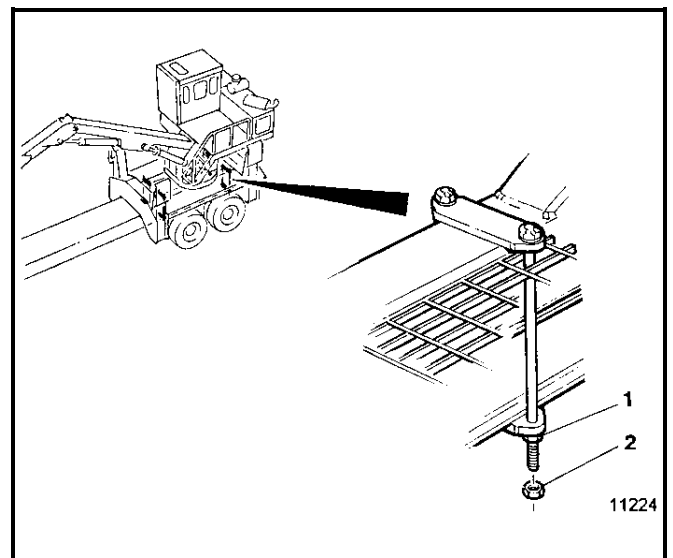
When mounting the loader on a common type trailer or truck frame, use the hardware kits provided with the loader.

This installation procedure shows the loader installed on an I-beam type trailer frame; however, the procedure may also be applied to U-channel type vehicle frames.

1. Position the loader on the trailer frame with the hydraulic accessory ports on the loader base towards the front of the trailer.
2. Attach the loader base to trailer frame in four locations, ensuring that each clamping kit is installed as shown.

⚠ WARNING

Do not weld on any structural member of the loader unless specifically authorized to do so. Any unauthorized welding will void the frame warranty in addition to potentially cause structural failure.



Note!

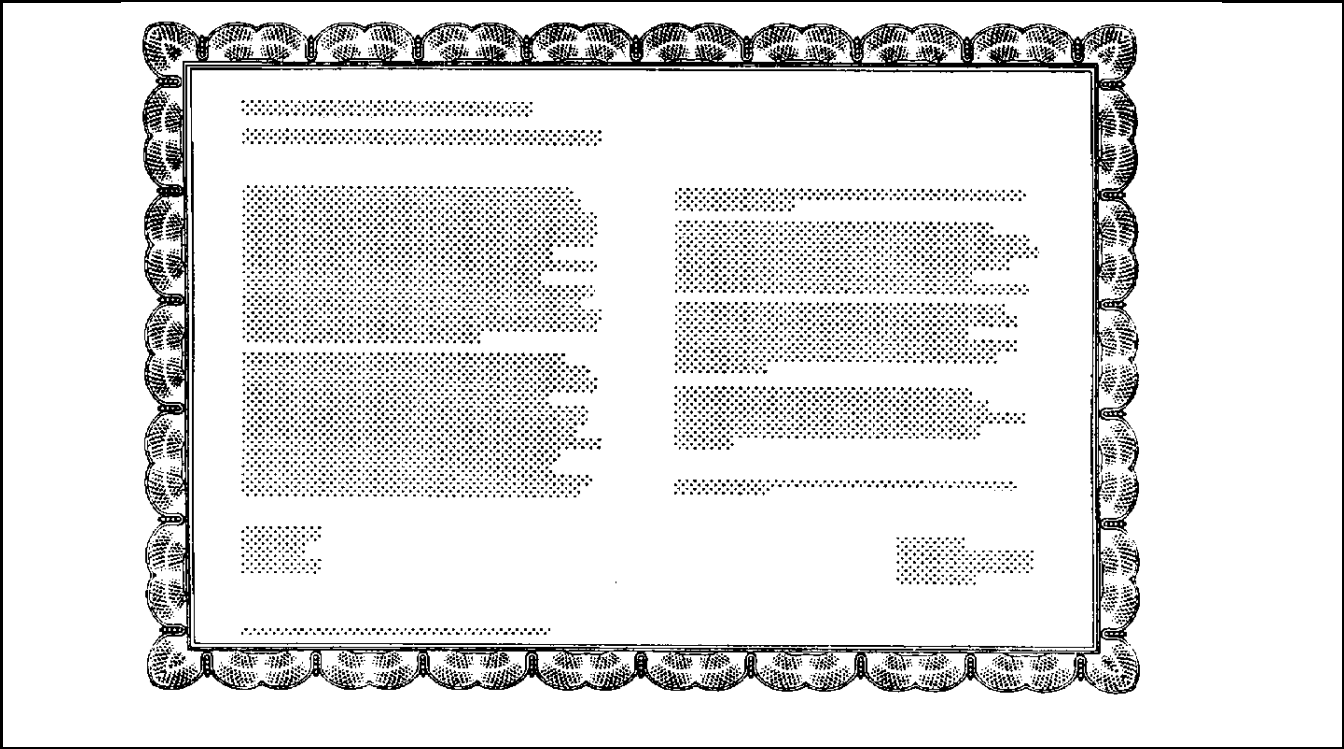
When installing the loader on a U-channel type vehicle frame a spacer plate may be needed between the open ends of the U-channel at each clamping location to prevent distortion when the clamping kits are tightened.

3. Torque nuts (1) to 725 to 800 lb. ft.
4. Install and tighten jam nuts (2).

Note!

The torque of the nuts (1) should be checked regularly as detailed in section 6 of this manual.

2. Warranty



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2.1 Warranty Certificate - Timberjack Loaders

Standard Warranty

Timberjack Inc. warrants each new Timberjack Inc. log loader to be free of failure resulting from defective material and workmanship under proper use and service for a period of three hundred and sixty-five (365) days or two thousand (2000) hours, whichever first occurs, following date of delivery of the machine to the original retail customer (user) provided that the prescribed pre-delivery, start-up and follow-up inspections have been carried out and reported to Timberjack Inc. to validate all aspects of this warranty.

Timberjack Inc.'s sole obligation under this warranty is limited to the repair or replacement without charge at Timberjack Inc.'s factory, warehouse, or approved repair shop, any part or parts which which Timberjack Inc.'s inspection shall disclose to have been defective in material or workmanship. Parts which show evidence of neglect, overload, abuse, accident, inadequate maintenance or unauthorized alteration are not covered.

Timberjack Inc. is not responsible for any costs associated with delivery of the machine to an authorized repair shop, nor any costs associated with delivery of parts to make the repairs.

This warranty, in its entirety, does not cover maintenance items in Timberjack Inc. log loaders, which includes, but is not limited to lubricating grease and oils, filters, hoses, belts, ignition parts or clutches.

Alternators, regulators, engines, starter motors, injection pumps, and allied equipment are warranted by the manufacturers of same to the user and are not warranted by Timberjack Inc.. Warranty on all such parts, components, or items are limited to the warranty, if any, offered by the original manufacturer of same.

Compensation under this warranty may be denied if repairs or alterations to a Timberjack Inc. log loader have been made by persons or firms not specifically approved by Timberjack Inc. so as in Timberjack Inc.'s opinion to adversely affect in any way the stability and reliability of such machine. The installation in such machine of any product or attachment not specifically approved by Timberjack Inc. may also result in denial of warranty.

Liability or obligation on the part of Timberjack Inc. for damages, whether general, special, or for negligence and expressly including any incidental and consequential damages, is hereby disclaimed.

Timberjack Inc.'s obligation to repair or replace shall be the limit of its liability under this warranty and the sole and exclusive right and remedy of the user.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

The distributor agrees to extend only the above warranty to it's customers. In the event the distributor extends to it's customer any additional warranty such as by extending the scope or period of warranty or undertaking a warranty of fitness for any particular purpose or any other obligation not encompassed in Timberjack Inc.'s warranty, then the distributor shall be solely responsible therefor and shall have no recourse against Timberjack Inc. with respect thereto.

This warranty may not be changed, altered, or modified in any way.

Timberjack Inc.
Woodstock, Ontario, Canada
April, 1996.

2.2 Items Not Covered By Warranty:

Items and service related functions that are not covered by warranty include, but are not limited to:

1. Issues resulting from misuse, negligence or accident.
2. Issues arising from the use of non approved parts.

3. Repairs or adjustment by other than Timberjack Inc. or its authorized dealers.
4. Engine Tune-up.

5. Issues resulting from the installation of unauthorized attachments or modifications.
6. Transportation of the machine to or from the repair location.

7. Dealer travel or mileage expense.
8. Injection pump and injector adjustments.

9. Air, oil and fuel filter elements.
10. Air conditioning filters, freon, receiver dryer.

11. Diagnosis time will not be considered warranty labor.
12. Tightening of nuts, bolts, screws, etc. or adjustments.

13. Natural wear or defects caused by natural wear.
14. Issues due to use of improper fuel, oil, grease, coolant, or other fluid or lubricant.

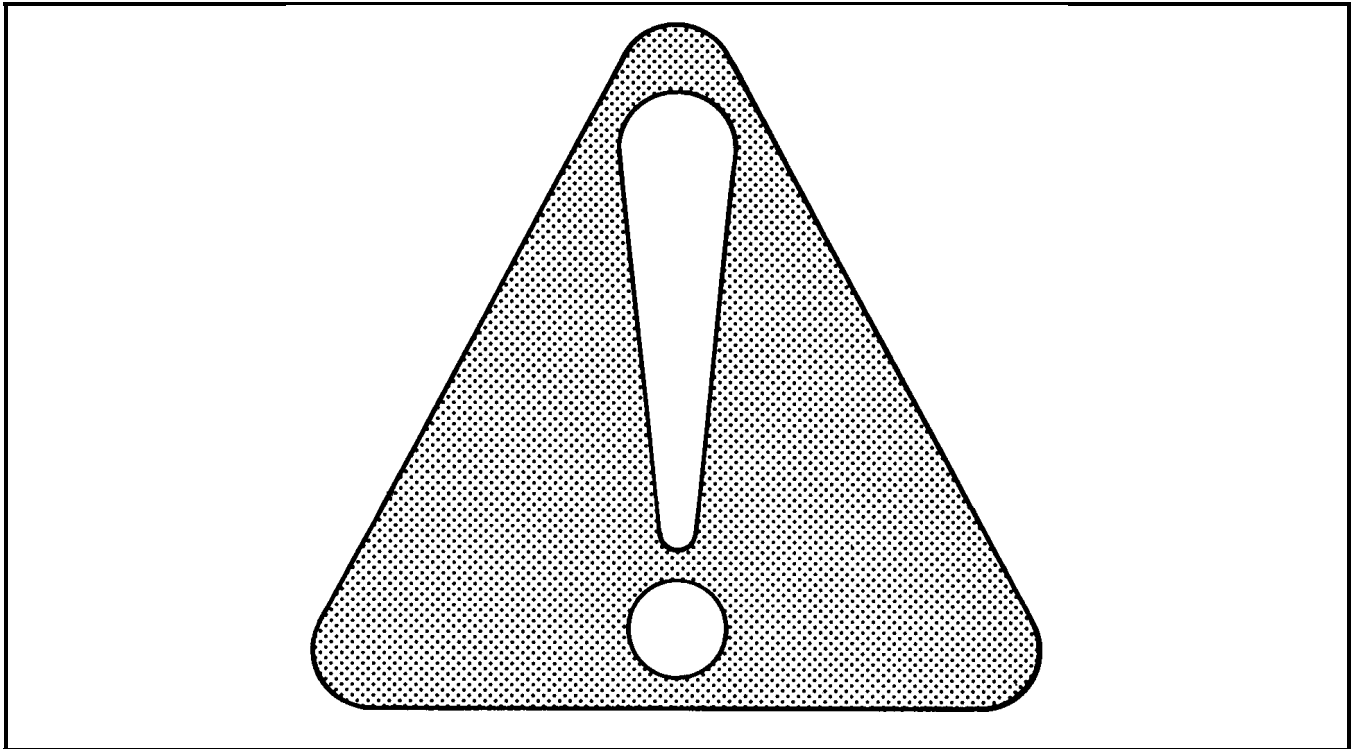
15. Freight expenses, daily allowances and overtime labor rates.
16. Damage occurring while in dealer inventory or in transit from the factory to dealer and from dealer to customer.

17. Indirect damages such as loss of earnings, etc.

18. Normal Maintenance services. Maintenance services that are not directly involved with defective parts are considered normal service and should be excluded from a claim. These services include (but are not limited to):
 - Fuel system cleaning
 - Engine tune-up

19. Other adjustments (but not limited to) such as:
 - Tightening of hydraulic fittings
 - Adding or replacing of service fluid and filters
 - Replacement of air, hydraulic, transmission, engine fuel filters, oil, belts, and breathers.
 - Hydraulic pressure adjustments.

3. Safety Rules



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3.1 General

Should there be any information or instructions in this manual that are not in compliance with local laws and regulations in force in the country or region where this equipment is operated, the local laws and regulations must take precedence.

This machine should not be operated or maintained by personnel other than those who have been thoroughly trained.

As the operator/maintainer ensure that you become familiar with all occupational safety regulations pertaining to forest machinery as well as all safety instructions pertaining to this equipment. Observe the instructions provided in this manual and on all hazard and information decals on the machine.



3.2 Safety Symbol

This safety-alert symbol is used throughout the manual and on the machine to call your attention to areas in which carelessness or failure to follow specific procedures may result in personal injury.

3.3 Understanding Signal Words

 **DANGER**

DANGER identifies the most serious hazards where failure to follow listed procedures would result in a high probability of death or serious injury.

 **WARNING**

WARNING denotes a hazard exists which can result in serious injury or death if proper precautions are not taken.

 **CAUTION**

CAUTION is used in areas where failure to follow listed procedures may cause personal injury.

3.4 General Safety Precautions

Timberjack Inc. policy is to produce products that are safe and reliable. However, even when using well designed equipment, there will always be an element of risk in heavy-duty equipment operation.

To minimize risks and promote safety at all times, this section of the operator's manual details a number of safety rules which should always be followed and obeyed.

Study all the safety messages in this manual and on the machine carefully.

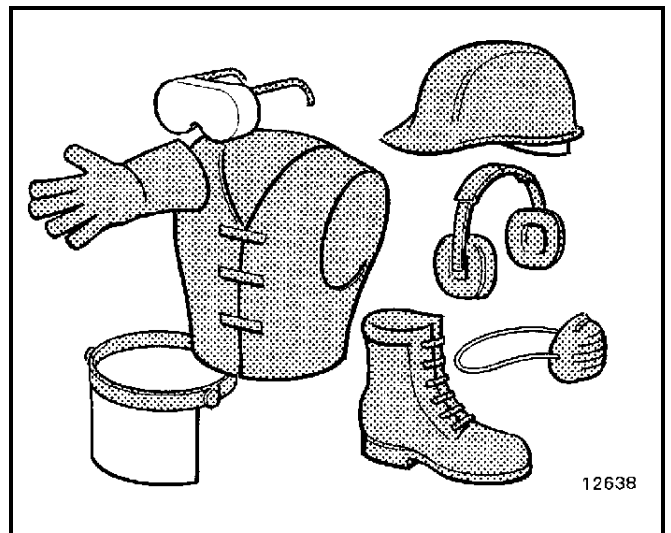
You must be fully trained to operate this equipment. Know the capabilities and the limitations of the equipment. Learn the most efficient operating techniques.

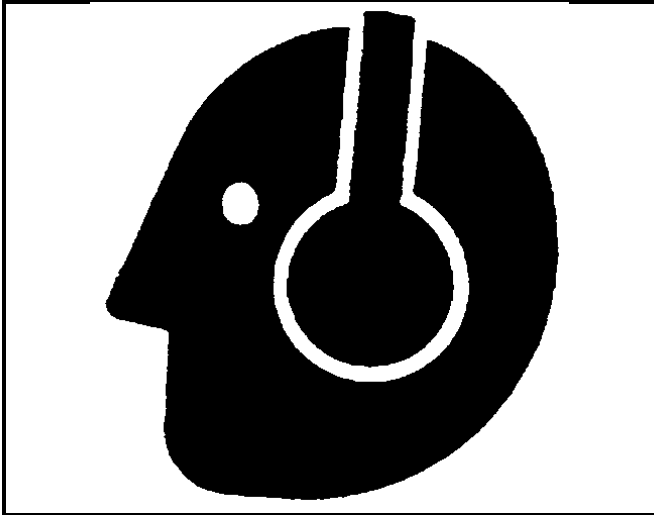
Do not let an untrained person operate the machine.

Use recommended protective clothing and safety devices such as gloves, safety boots, safety hat, goggles, and ear protection when necessary.

These safety rules highlight both general and specific measures the operator should be familiar with and adhere to. More specific measures are illustrated with pictograms which may also be attached to the machine in locations pertinent to their respective message. Keep safety signs in good condition. Repair or replace damaged signs.

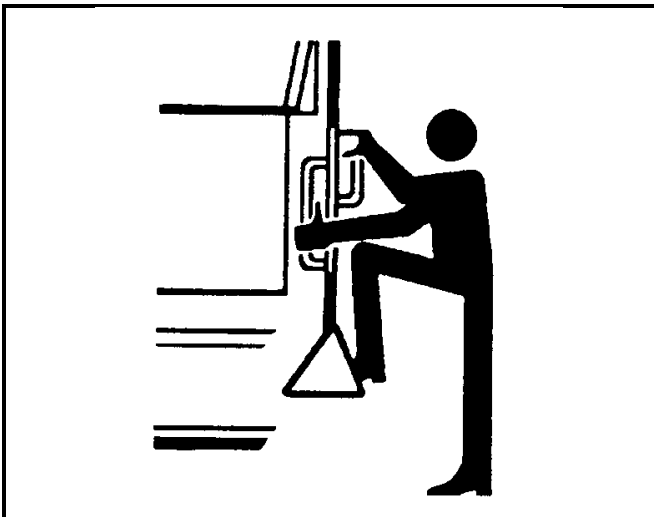
WHEN IT COMES TO SAFETY, NOTHING WILL EVER REPLACE A CAREFUL OPERATOR.





3.4 General Safety **Precautions**

Wear a suitable hearing protective device such as earmuffs or ear plugs to protect against noise. Prolonged exposure to loud noise can cause impairment or loss of hearing.



Use the handrails and steps provided when mounting and dismounting the machine.

Face the machine when mounting and dismounting.

Maintain a three-point contact (one foot and two hands or two feet and one hand) with the steps and handrails. Do not climb on or off the machine in any other fashion.

Use a hand line to lift tools or supplies onto the machine.

Inspect the machine daily and when necessary, clean or repair the handrails and steps.



Keep floors, steps, and running boards clean and free of oil, ice, mud, and loose objects.



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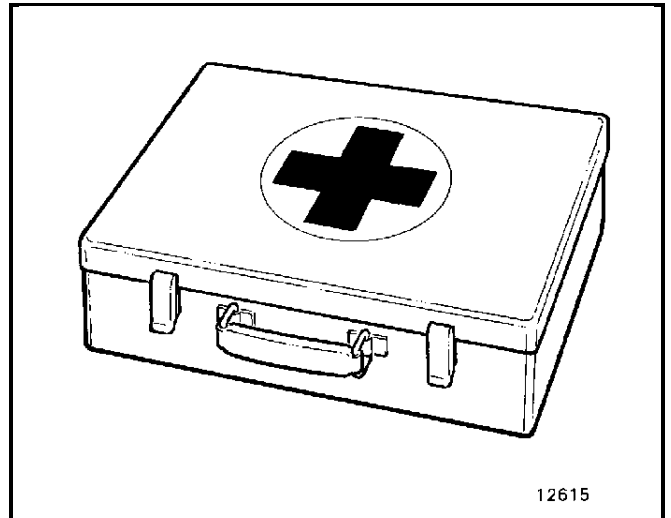
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3.4 General Safety Precautions

Keep a first aid kit in an easily accessible location on the vehicle at all times.

Carry no passengers. The vehicle is provided and approved with seating for the operator only.

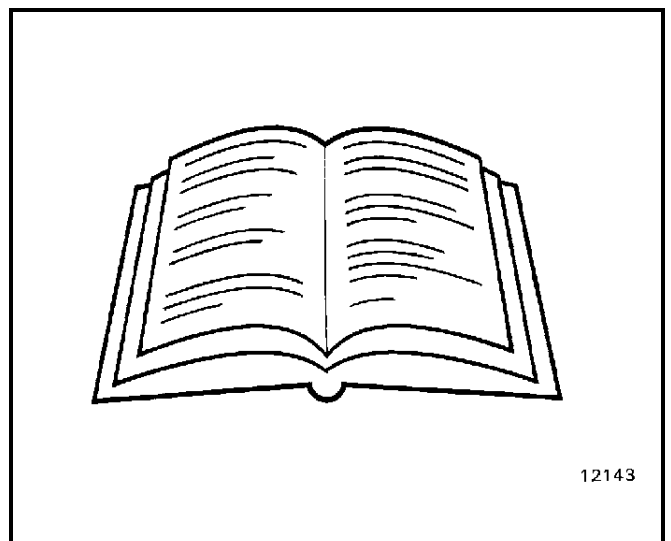


The seat is equipped with seat belt. Use this belt at all times when operating the machine.



Comply with instructions in this manual and also your company's regulations for the operation of this vehicle.

Operate the machine only when physically fit and not under the influence of alcohol or drugs.



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