

PART No. EM15L – NA1 – 2

Operator's Manual

EX300-3

EX300LC-3

EX300H-3

EX300LCH-3

Excavator

Serial No.

EX300-3 08063 and up

EX300LC-3 08084 and up

HITACHI

INTRODUCTION

Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or machine damage.

This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

This machine is of metric design. Measurements in this manual are metric. Use only metric hardware and tools as specified.

Right-hand and left-hand sides are determined by facing in the direction of forward travel.

Write product identification numbers in the Machine Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

Warranty is provided as part of Hitachi's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that Hitachi will back its products where defects appear within the warranty period. In some circumstances, Hitachi also provides field improvements, often without charge to the customer, even if the product is out of warranty. **Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied.** Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

Only qualified, experienced operators officially licensed (according to local law) should be allowed to operate the machine. Moreover, only officially licensed personnel should be allowed to inspect / service the machine.

The Yellow pages in this operator's manual contain **IMPORTANT SAFETY INFORMATION**. Read these pages thoroughly and familiarize yourself with the safety standards and recommendations set forth in these yellow pages of the manual. Follow all safety instructions prior to and while operating the machine.



All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

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SAFETY

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow all recommended precautions and safe operating practices.



SA-001

UNDERSTAND SIGNAL WORDS

On machine safety signs, signal words designating the degree or level of hazard – DANGER, WARNING, or CAUTION – are used with the safety-alert symbol.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

DANGER or WARNING safety signs are located near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

To avoid confusing machine protection with the personal safety messages, a signal word IMPORTANT indicates a situation which, if not avoided, could result in damage to the machine.



SA-100

SAFETY

FOLLOW SAFETY INSTRUCTIONS

Carefully read and follow all safety signs on the machine and all safety messages in this manual.

Safety signs should be installed, maintained and replaced when necessary.

If a safety sign or this manual is damaged or missing, order a replacement from your Hitachi dealer in the same way you order other replacement parts (be sure to state machine model and serial number when ordering).

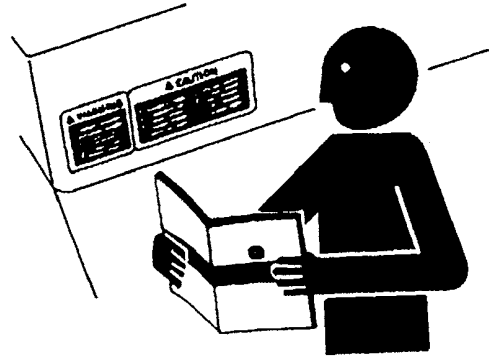
Learn how to operate the machine and its controls correctly and safely.

Allow only trained, qualified, authorized personnel to operate the machine.

Keep your machine in proper working condition.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

The safety messages in this SAFETY chapter are intended to illustrate basic safety procedures of hydraulic excavators. However it is impossible for these safety messages to cover every hazardous situation you may encounter. If you have any questions, you should first consult your supervisor before operating and servicing the machine.



SA-101

SAFETY

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate for the job.

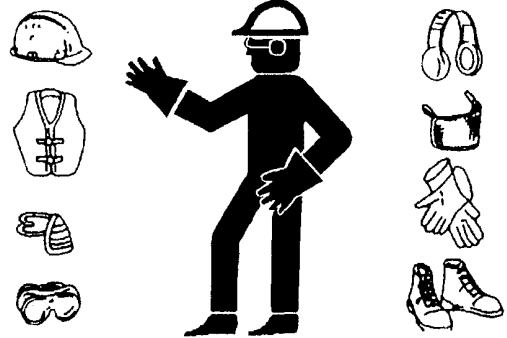
Standard safety equipment includes:

- A hard hat
- Safety shoes
- Safety glasses, goggles, or face shield
- Heavy gloves
- Hearing protection
- Reflective clothing
- Wet weather clothing
- Respirator or filter mask.

Do not take chances. Wear whatever is needed for the job at hand.

Avoid wearing loose clothing, jewelry, or other items that can catch on control levers or other parts of the machine.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

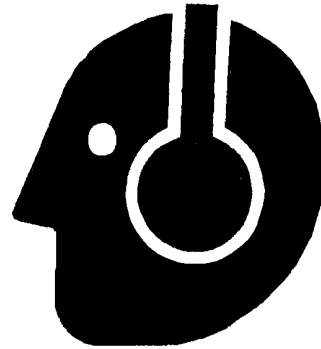


SA-023

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as ear-muffs or earplugs to protect against constant or uncomfortably loud noises.



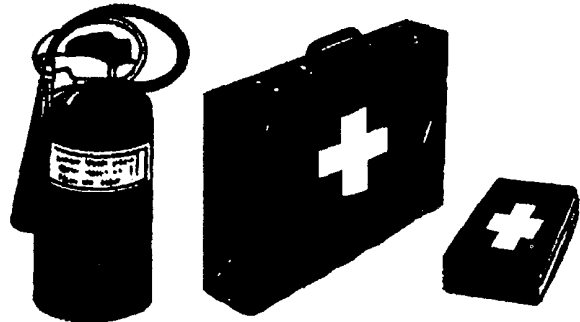
SA-024

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



SA-020

SAFETY

INSPECT MACHINE

To avoid personal injury, inspect your machine carefully at the beginning of each day or shift by walking around it before you start it. While performing your walk-around inspection, refer to the chapter "Pre-start Inspection" in this manual.



SA-005

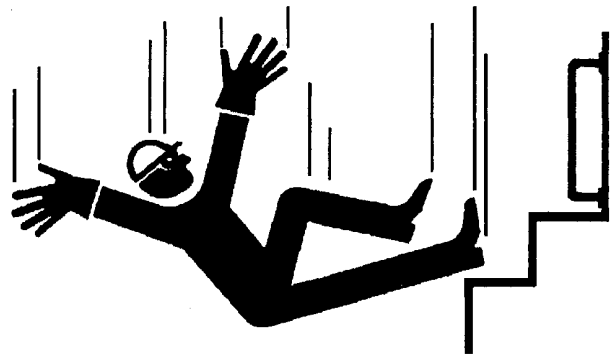
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three-point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.



SA-006

ADJUST THE SEAT

Adjust the seat whenever changing operators. Be sure that the operator can fully depress the pedals with his back against the seat back.

If not, move the seat forward and check again.



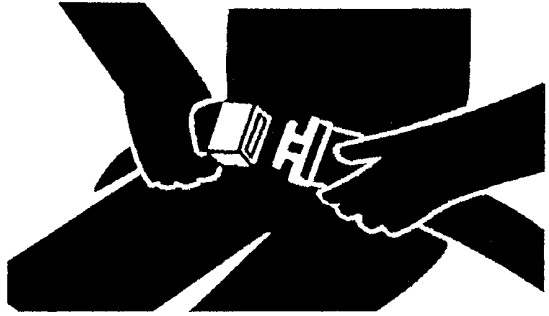
SA-233

SAFETY

FASTEN YOUR SEAT BELT

Prior to operating the machine, thoroughly examine the belt, buckle and attaching hardware. If any item is damaged or materially worn, replace the seat belt or component before operating the machine.

Be sure to remain seated with seat belt securely fastened at all times when the machine is in operation.



SA-237

OPERATE ONLY FROM OPERATOR'S SEAT

Avoid possible injury or machine damage. Do not start the engine by shorting across starter terminals.

NEVER start the engine while standing on ground. Start the engine only from operator's seat.



SA-008

KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are vulnerable to injury such as being struck by foreign objects or being thrown off the machine.

Riders also obstruct the operator's view, resulting in unsafe operation.

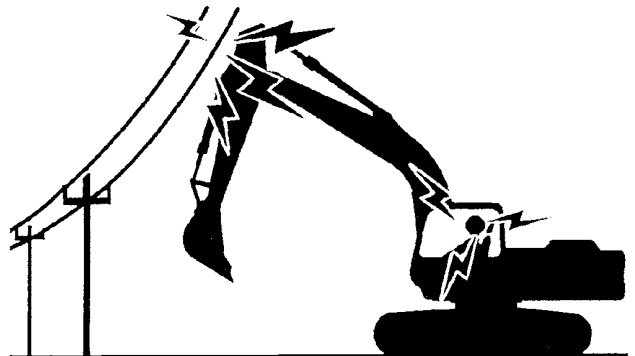


SA-017

AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

Never move any part of the machine or load closer to any electric line than 3 m (10 ft) plus twice the line insulator length.



SA-013

SAFETY

AVOID INJURY FROM BACK-OVER AND SWING ACCIDENTS

To avoid back-over and swing accidents:

Always look around before you back up and swing the machine. Be sure that everyone is in the clear.

Keep bystanders away from pivot area of an articulated machine.

Keep travel alarm in working condition.

Always be alert for bystanders moving into the work area. Use horn or other signal to warn bystanders before moving machine.

Use a signal person when backing up if your view is obstructed. Always keep signal person in view.

Use hand signals when work conditions require signal person.

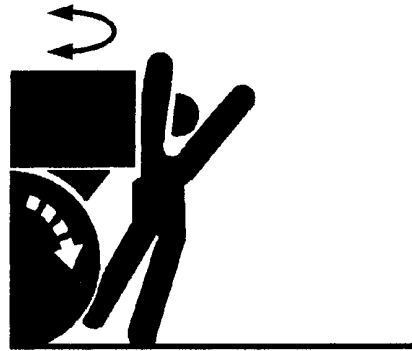
No excavator or backhoe motions shall be made unless signals are clearly understood by both signalman and operator.

Learn the meaning of all flags, signs, and markings used on the job and confirm who has the responsibility for signaling.

Keep windows, mirrors, and lights clean and in good condition.

Dust, heavy rain, fog, etc., can reduce visibility. As visibility decreases, reduce speed and use proper lighting.

Read and understand all operating instructions in this operator's manual.



SA-004