



E225BSR

**WORKSHOP MANUAL
ENGLISH**

Print No. 87709239A

Edition 09/2007
English - Printed in Italy

Printed by Studio ti - 40307

TO THE READER

- This manual has been written for a skilled technician, in order to give him the information necessary to repair this machine.

Read this manual carefully for correct information about repair procedures.

For any question or comment, or in case you notice a mistake in this manual content, please contact:

CNH ITALIA S.p.A.
Viale delle Nazioni, 55
41100 MODENA - Italia

ADDITIONAL REFERENCE MANUALS

- In addition to this Workshop Manual, refer also to the following:

Operation and maintenance instruction manual

Spare parts catalog

DESCRIPTION OF THE WORKSHOP MANUAL

- This repair manual consists of one single volume, identified with:

E235BSR - Workshop Manual “Mini excavator”

- The “Mini excavator” Workshop Manual contains the technical information necessary for machine service and repair, the service equipment, the information on maintenance standards, the removal and installing procedures, and the disassembly and assembly procedures.

- The complete Workshop Manual for the model *E225BSR* consists of the following volume identified by print number as shown herebelow:

| VOLUME | MACHINE TYPE | PRINT No. |
|---|--------------|-----------|
| Workshop Manual - “Hydraulic excavator” | E225BSR | 87709239A |

INTRODUCTION

AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home or on the highway, are caused by the failure of some individuals to follow simple and fundamental safety rules or precautions. For this reason **MOST ACCIDENTS CAN BE PREVENTED** by recognising the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment there are conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

Carefully read indications, cautions and safety warning quoted in the "SAFETY RULES" section.

A careful operator is the best insurance against an accident.

The complete observance of one simple rule would prevent many thousand serious injuries each year.

That rule is:

Never attempt to clean, oil or adjust a machine while it is in motion.

ATTENTION

On machines having hydraulically, mechanically and/or cable controlled equipment (such as showels, loaders, dozers, scrapers etc.) be certain the equipment is lowered to the ground before servicing, adjusting and/or repairing.

If it is necessary to have the equipment partially or fully raised to gain access to certain items, be sure the equipment is suitably supported by means other than the hydraulic lift cylinders, cable and/or mechanical device used for controlling the equipment.

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GENERAL SAFETY INFORMATION



Do not operate or perform any maintenance on this machine until all instructions found in the OPERATOR'S MANUAL and this MANUAL have been thoroughly read and understood.

Improper operation or maintenance of this machine may cause accidents and could result in serious injury or death.

Always keep the manual in storage.

If it is missing or damaged, place an order with an authorized our Distributor for a replacement.

If you have any questions, please consult an authorized our Distributor.

- (1) Most accidents, which occur during operation, are due to neglect of precautionary measures and safety rules. Sufficient care should be taken to avoid these accidents. Erroneous operation, lubrication or maintenance services are very dangerous and may cause injury or death of personnel. Therefore all precautionary measures, NOTES, DANGERS, WARNINGS and CAUTIONS contained in the manual and on the machine should be read and understood by all personnel before starting any work with or on the machine.
- (2) Operation, inspection, and maintenance should be carefully carried out, and safety must be given the first priority. Messages of safety are indicated with marks. The safety information contained in the manual is intended only to supplement safety codes, insurance requirements, local laws, rules and regulations.
- (3) Messages of safety appear in the manual and on the machine : All messages of safety are identified by either word of "DANGER", "WARNING" and "CAUTION".

- 1) **DANGER-** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury and is represented as follows:



- 2) **WARNING-** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury and is represented as follows:



- 3) **CAUTION-** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against possible damage to the machine and its components and is represented as follows:



- (4) It is very difficult to forecast every danger that may occur during operation. However, safety can be ensured by fully understanding proper operating procedures for this machine according to methods recommended by Manufacturer.
- (5) While operating the machine, be sure to perform work with great care, so as not to damage the machine, or allow accidents to occur.
- (6) Continue studying the manual until all Safety, Operation and Maintenance procedures are completely understood by all persons working with the machine.

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