
TO THE READER

This manual has been printed for a skilful engineer to supply necessary technical information to carry out service operations on this machine.

Read carefully this manual to collect correct information relevant to repair procedures.

For any question or remark, or in case of any error relevant the contents of this manual, please contact:

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

REFERENCES

Beyond this Service Manual, also refer to documents hereunder listed:

- Operator's Manual
- Parts Catalogue

COMPLETE SERVICE MANUAL

The complete Service Manual consists of two volumes:

- WE190
WE210 - WE210 Industrial
WE230 - WE230 Industrial
Service Manual "Wheeled Excavators"
- WE190
WE210 - WE210 Industrial
WE230 - WE230 Industrial
Service Manual "Engine"

The Service Manuals for "Wheeled Excavators" and "Engine" contain the necessary technical information to carry out service and repair on machine and on engine, necessary tools to carry out those operations and information on service standard, on procedures for connection, disconnection, disassembly and assembly of parts.

The Service Manual which covers the models WE190 - WE210 - WE210 Industrial - WE230 - WE230 Industrial consists of the following volumes, which can be identified through their print number as stated below:

VOLUME	MACHINE TYPE	PRINT NUMBER
Service Manual - "Wheeled Excavators"	WE190 WE210 - WE210 Industrial WE230 - WE230 Industrial	84291045A
Service Manual - "Engine"	WE190 WE210 - WE210 Industrial WE230 - WE230 Industrial	87704086A

TO PREVENT ACCIDENTS

The majority of accidents and injuries which occur in industry, at home or on the road, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason MOST ACCIDENTS CAN BE PREVENTED by recognizing the real cause and taking the necessary precautions, before the accident occurs.

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

A careful operator and / or technician is the best insurance against accidents. The complete observance of one simple rule would prevent many thousands of serious injuries each year.

This rule is: never attempt to clean, lubricate or adjust a machine while it is in motion.

▲ WARNING

Before carrying out any maintenance operation, adjustment and or repair on machines equipped with attachments, controlled hydraulically or mechanically, make sure that the attachment is lowered and safely set on the ground. 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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SAFETY INSTRUCTION



This warning symbol points out important messages involving your safety.

Carefully read the safety rules contained herein and follow advised precautions to avoid potential hazards and to safeguard your safety and personal integrity.

In this manual you will find this symbol together with the following key-words:

DANGER

With specific warnings about potential dangers for the operator's or other persons integrity directly or indirectly involved.

WARNING

This symbol warns about the possibility of potential damages to the machine that can involve the operator's safety.

The non compliance with the warning preceded by the above mentioned key-words (**DANGER** and **WARNING**) can cause serious accidents or even the death of the persons involved.

Moreover, this Manual contains some instructions with texts in italics, preceded by the words **NOTE** and **CAUTION**:

NOTE: it emphasizes and underlines to the operator the correct technique or correct procedure to follow.

CAUTION

It warns the operator of a possible hazard of machine damage in case he does not follow a determined procedure.

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