

# SERVICE MANUAL

## E18SR Mini Crawler Excavator

Print No. 84363846

From Serial Number PA03-05001



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# SERVICE MANUAL

**E10SR**

Mini Crawler Excavators

Print No. 84363846

*From Serial Number PA03-05001*



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## TO THE READER

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

Carefully read this manual to obtain correct information regarding repair procedures.

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

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

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## REFERENCE

Beyond this Service Manual, also refer to the documents listed below:

- Operator's Manual
- Service Parts Catalogue

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## COMPLETE SERVICE MANUAL

The Service Manual consists of one volume:  
E10SR Service Manual for "Mini Excavators"

The Service Manual for "Mini Excavators" contains the necessary technical information to carry out maintenance and repair operations on the machine, the necessary tools to carry out maintenance operations, the information on service standards, the procedures for removal, installation, disassembly and reassembly.

The Service Manual regarding models E10SR consists of the following volume, identified by the print number indicated below:

VOLUME	MACHINE TYPE	PRINT NUMBER
Service Manual - "Mini Excavators"	E10SR	84363846

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### **TO PREVENT ACCIDENTS**

Most of the accidents and injuries occurring in the factory, at home or on the road are caused by the failure 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.

With any type of machine, although well designed and constructed, it is not possible to absolutely exclude any possibility of accidents.

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

This rule is: never attempt to clean, lubricate or service a machine with the engine running.

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### **⚠ WARNING**

Before carrying out any maintenance, adjustment or repair operation 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 attachment partially or fully raised to gain access to certain items, make sure the attachment is suitably supported by means other than the hydraulic lifting cylinders, the cables and/or the mechanical devices used for controlling the attachment.

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**CNH S.p.A.**

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## GENERAL SAFETY INFORMATION

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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.

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- (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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