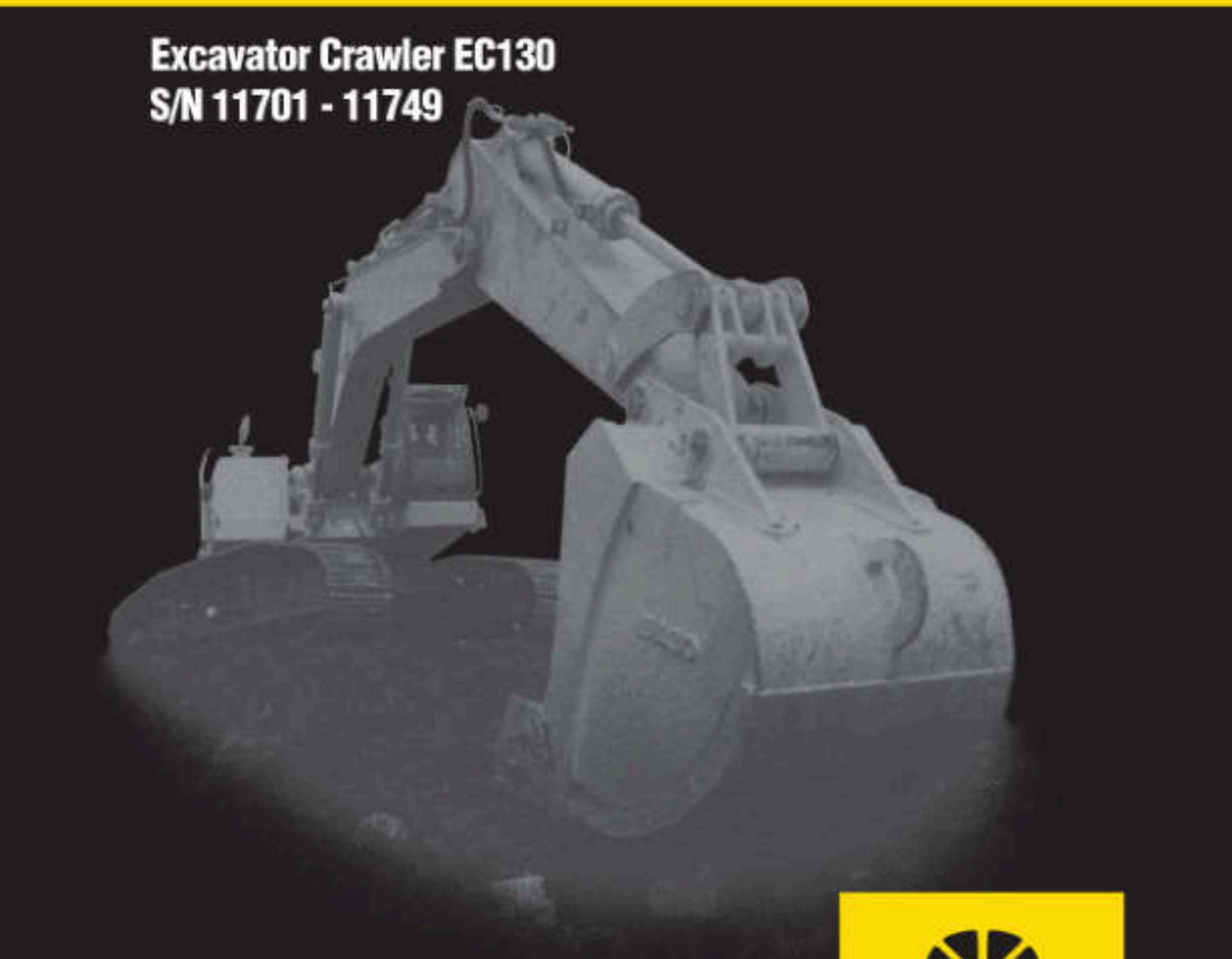
SERVICE MANUAL

Excavator Crawler EC130
S/N 11701 - 11749



NEW HOLLAND
CONSTRUCTION

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HYDRAULIC SYSTEM

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Foreword

The "Technical Specifications" manual contains important information for personnel servicing the machine. Machine specifications listed elsewhere in the machine documents are not always repeated in this book.

The documentation includes:

- the operating instructions
- the spare-parts list
- the dimension table with the technical data of the machine.

The present brochure does not contain the specifications of auxiliary units for the operation of additional or optional equipment or the specifications of individual machines.

The refilling quantities specified for consumables are approximate quantities which are intended as a help for planning consumable requirements. Each unit is equipped with suitable checking devices, e.g. dipstick or checking plugs, permitting the operator to check proper filling of the units.

Safety Instructions

Danger in the event of non-observance of the safety instructions

⚠ WARNING

This hydraulic excavator has been built in accordance with state-of-the-art standards and the recognized safety rules.

However, operating the machine when a fault is suspected or has occurred, or carrying out repair work inexpertly may

- **endanger the lives of persons in contact with it**
- **damage the machine and other property.**

The hydraulic excavator must be stopped immediately when any damage is suspected or occurring, to ensure that the safety of the operator, other persons at the place of use or other material property is not compromised.

All components are carefully coordinated. Trouble-free operation and a long service life can only be achieved with original spare parts.

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PRACTICAL TROUBLESHOOTING

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Notes on troubleshooting in automotive electrical systems

In order to rectify faults fast and safely, it is important to proceed systematically when searching for faults.
Beside the technical qualification of the electrician, knowledge of the following facts is required for successful troubleshooting:

- Which assembly is defective?
- Which is the location of the assembly in the machine?
- Which is the correct function of the assembly?
- Which components are interacting?
- In which way do the components interact?
- Where are the components located in the machine?
- Under which conditions and in which operational state is the fault present?

Questions to the operator of the machine:

- Which warning signs have preceded the fault?
- Which maintenance or repair works have been carried out beforehand?
- Has the fault already been observed before?
- Can the fault be rectified with the troubleshooting tables in the operating instructions?
- Has the machine been wrongly operated?

Required documents:

- operating instructions,
- wiring diagram with legend and
- spare-parts list.

Measuring and testing devices

Recommended measuring and testing devices are described in the "Measuring and testing devices" section.

Measuring and testing procedures

How to carry out testing with simple means is described in the "Basic measuring and testing procedures" section.

Wiring diagrams

Knowledge and understanding of the wiring diagrams and the symbols used in these diagrams are an essential prerequisite for successful troubleshooting in automotive electrical systems. The symbols used in the wiring diagrams are listed in the annex.

Even more important than locating the defective component is the determination of the cause of trouble.
In many cases, faults and defects repeat themselves if the cause of the fault is not recognized and eliminated.

Example of systematic troubleshooting

Starting situation:

- batteries fully charged,
- system voltage normal,
- tank filled with fuel,
- starter turns the engine with start - speed.

Fault:

- engine does not fire.

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Electrical components in circuit diagram

Circuit diagram No. 1287787

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B 1287787 - 100

Part	Quantity	Description and function	Curr. Path	Location	Part no.
X102	15,000	MALE CONNECTOR	26 - 1/10	CONTROL PANEL	73176308
X102	1,000	HOUSING	26 - 1/10	CONTROL PANEL	72182587
X102	15,000	BUSHING	26 - 1/10	CONTROL PANEL	73176493
X104	1,000		26 - 1/10	CONTROL PANEL	73177972
X104	15,000	MALE CONNECTOR	26 - 1/10	CONTROL PANEL	73176308
X104	1,000	HOUSING	26 - 1/10	CONTROL PANEL	72182587
X104	15,000	BUSHING	26 - 1/10	CONTROL PANEL	73176493
X106	1,000		26 - 1/10	CONTROL PANEL	73177972
X106	13,000	MALE CONNECTOR	26 - 1/10	CONTROL PANEL	73176308
X106	2,000	MALE CONNECTOR	26 - 1/10	CONTROL PANEL	73175275
X106	1,000	HOUSING	26 - 1/10	CONTROL PANEL	72182587
X106	13,000	BUSHING	26 - 1/10	CONTROL PANEL	73176493
X106	2,000	BUSHING	26 - 1/10	CONTROL PANEL	73175274
X107	1,000		26 - 1/11	CONTROL PANEL	73177972
X107	15,000	MALE CONNECTOR	26 - 1/11	CONTROL PANEL	73176308
X107	1,000	HOUSING	26 - 1/11	CONTROL PANEL	72182587
X107	15,000	BUSHING	26 - 1/11	CONTROL PANEL	73176493
X108	1,000	PLUG/SOCKET	26 - 1/11	CONTROL PANEL	73177972
X108	15,000	MALE CONNECTOR	26 - 1/11	CONTROL PANEL	73176308
X108	1,000	HOUSING	26 - 1/11	CONTROL PANEL	72182587
X108	15,000	BUSHING	26 - 1/11	CONTROL PANEL	73176493
X110	1,000		6 - 2/77	CAB	73176064
X110	2,000	PLUG-IN SLEEVE	6 - 2/77	CAB	73176063
X110	1,000	HOUSING	6 - 2/77	CAB	73176065
X110	2,000	FLAT-PIN PLUG	6 - 2/77	CAB	73176061
X111	2,000		- 0/ 0		73176061
X111	2,000	PLUG-IN SLEEVE	- 0/ 0		73176063
X111	1,000	RECEPTACLE HOUSING	- 0/ 0		73176064
X111	1,000	HOUSING	- 0/ 0		73176065
X115	1,000	PLUG/SOCKET RESERVE	26 - 5/88	SEAT CONSOLE,RH	73177972
X115	15,000	MALE CONNECTOR	26 - 5/88	SEAT CONSOLE,RH	73176308
X115	1,000	HOUSING	26 - 5/88	SEAT CONSOLE,RH	72182587
X115	15,000	BUSHING	26 - 5/88	SEAT CONSOLE,RH	73176493

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