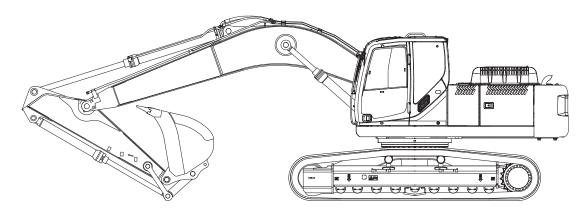
SERVICE MANUAL

E385C

Crawler Excavators



Print no. 47374920A Ist Edition English 06/12



Read this manual before operating the machine

Most accidents occurring during work are due to non-observance of simple safety norms and elementary precautions.

Many accidents can be avoided if the causes are known and opportune cautions taken beforehand.

There is no device or protection, no matter how advanced, that may prove so effective at avoiding accidents as a careful and attentive behaviour.



Ensure that the attachment is safely resting onto the ground before repairing, adjusting or servicing machines fitted with hydraulically, mechanically or cable controlled attachments (such as, excavators, loaders, dozers, scrapers, etc.). Should it be necessary to partially or fully raise the hydraulically, mechanically or cable controlled attachment to gain access to certain items, make sure the attachment is adequately retained in the raised position by means other than the hydraulic lift cylinders, cables and/or mechanical devices used for controlling it.

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TO THE READER

- This manual is written for an experienced technician to provide technical information needed to maintain and repair this machine.
 - Be sure to thoroughly read this manual for correct information concerning the service procedures.
- If you have any questions or comments, or if you found any errors regarding the contents of this manual, please contact:

NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A. Strada Settimo, 323 San Mauro Torinese (TO) 10099 ITALIA PRODUCT SUPPORT Fax. ++39 011 0077357

ADDITIONAL REFERENCES

- Please refer to the materials listed below in addition to this service manual:
 - Operator's Manual
 - Service Parts Catalogue

COMPLETE SERVICE MANUAL

- The complete Service Manual consists of two distinct volumes:
 - Service Manual "Crawler Excavators"
 - Service Manual "Engine"

The two distinct volumes of the complete Service Manual can be identified through their print number as stated below:

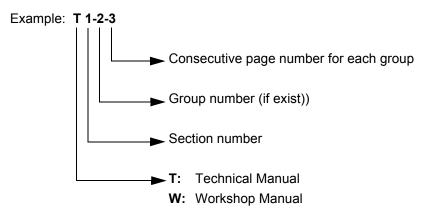
VOLUME	PRINT NUMBER
Service Manual "Crawler Excavators"	47374920A
Service Manual "Engine" J08E-UN	47391166A
Service Manual "Engine" J08E-TM	47391168A

- The Service Manual "Crawler Excavators" consists of five parts:
 - "General Safety Information"
 - "Operational Principle"
 - "Operational Performance Test"
 - "Troubleshouting"
 - "Repair Instructions"

- The "General Safety Information" part includes the recommended procedures that, if followed, can avoid the risk of accident for operator and for staff related to the work and maintenance machine operations.
- The "Operational Principle" part includes the technical information concerning the operation of main devices and systems.
- The "Operational Performance Test" part includes the information needed to carry out the machine operational performance test.
- The "Troubleshooting" part includes the technical information needed for troubleshooting and malfunction detection.
- The "Repair Instructions" part includes information needed for maintenance and repair of the machine, tools and devices needed for maintenance and repair, maintenance standards, removal/installation and assembly/disassembly procedures.

PAGE NUMBER

• Each page has a number, located on the central lower side of the page. Each page number contains the following information:



SYMBOLS

In this manual, the following safety alert symbol and signal words are used to alert the reader to the potential for personal injury or machine damage.



This is the safety alert symbol. When you see this symbol, be alert to the potential for personal injury. Never fail to follow the safety instructions prescribed along with the safety alert symbol. The safety alert symbol is also used to draw attentio in to component/part weights. To avoid injury and damage, be sure to use appropriate lifting techniques and equipment when lifting heavy parts.

UNITS USED

SI Units (International System of Units) are used in this manual.

MKSA system units and English units are also indicated in parentheses just behinds SI units.

Example: 24.5 MPa (250 kgf/cm²)

A table for conversion from SI units to other system units is shown below for reference purposes.

Quantity	To convert from (SI)	Into (Others)	Multiply by	Quantity	To convert from (SI)	Into (Others)	Multiply by
Lenght	mm	in	0.03937	Pressure	MPa	kgf/cm ²	10.197
	mm	ft	0.003281		MPa	psi	145.0
Volume	L	US gal	0.2642	Power	kW	CV-PS	1.360
	L	US qt	1.057		kW	HP	1.341
	m ³	yd ³	1.308	Temperature	°C	°F	°C x 1.8 + 32
Mass	kg	lb	2.205	Velocity	km/h	mph	0.6214
Force	N	kgf	0.10197		min ⁻¹	rpm	1.0
	N	lbf	0.2248	Flow rate	L/min	US gpm	0.2642
Torque	N.m	kgf.m	0.10197		mL/rev	cc/rev	1.0
	N.m	lbf.ft	0.7375				

MANUAL INDEX



GENERAL SAFETY INFORMATION

Section 1	SAFETY INFORMATION	S1
Section 2	SAFETY PRECAUTIONS	S2
Section 3	SAFETY DECALS	S3



OPERATIONAL PRINCIPLE

Section 1	GENERAL INFORMATION
Group 1	Specifications



Section 2 SYSTEM

Group 1	Mechatro Control System	
-	Hydraulic System	
Group 3	Electrical System	3



Section 3 COMPONENT OPERATION

Group 1	Hydraulic Pump Assy	T3-1
Group 2	Pilot Valve	
Group 3	Control Valve	T3-3
Group 4	Swing Device	T3-4
Group 5	Travel Device	
Group 6	Swivel Joint	T3-6
Group 7	Cylinders	T3-7
Group 8	Air Conditioner system	T3-8
Group 9	Electrical Equipment	



OPERATIONAL PERFORMANCE TEST

Group 2	Standard Performances	Г4-2
Group 3	Test Procedures	Г4-3
Group 4	Mechatro Controller	Г4-4



TROUBLESHOOTING

Section 5 TROUBLESHOOTING Group 1 Troubleshooting (by error codes)

Group 1	Troubleshooting (by error codes)	T5-1
Group 2	Troubleshooting (by trouble)	T5-2



Page

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