

E485B

WORKSHOP MANUAL



All the information and data contained in this manual are based upon most recent information available at the time of its publication.

NEW HOLLAND KOBELCO has the right to implement, at any time, any modification without providing any communication.

NEW HOLLAND KOBELCO CONSTRUCTION MACHINERY S.p.A. - Product Support

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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.
- If you have any questions or comments, or if you found any errors regarding the contents of this manual, please contact:
- Be sure to thoroughly read this manual for correct information concerning the service procedures.

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ADDITIONAL REFERENCES

- Please refer to the materials listed below in addition to this service manual:
 - **Operation and Maintenance Instruction Manual**
 - **Parts Catalog**

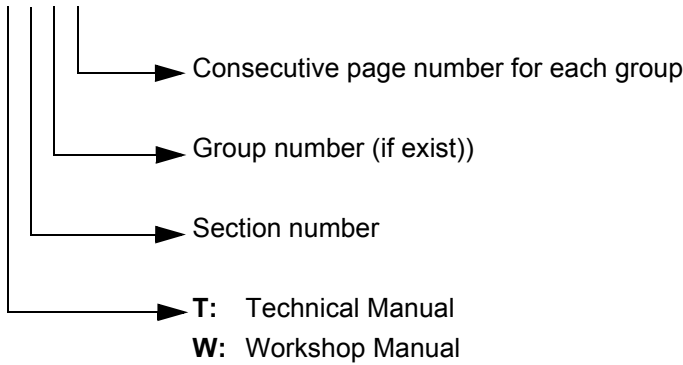
WORKSHOP MANUAL COMPOSITION

- The Workshop Manual consists of five parts:
 - **“Safety Precautions”**
 - **“Operational Principle”**
 - **“Operational Performance Test”**
 - **“Troubleshooting”**
 - **“Repair Instructions”**
- The “Safety Precaution” 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 Instruction” 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 external upper corner of the page. Each page number contains the following information:

Example: **T 1-2-3**



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 attention 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
Lenght	mm	in	0.03937
	mm	ft	0.003281
Volume	L	US gal	0.2642
	L	US qt	1.057
	m ³	yd ³	1.308
Mass	kg	lb	2.205
Force	N	kgf	0.10197
	N	lbf	0.2248
Torque	N.m	kgf.m	0.10197
	N.m	lbf.ft	0.7375

Quantity	To convert from (SI)	Into (Others)	Multiply by
Pressure	MPa	kgf/cm ²	10.197
	MPa	psi	145.0
Power	kW	CV-PS	1.360
	kW	HP	1.341
Temperature	°C	°F	°C x 1.8 + 32
Velocity	km/h	mph	0.6214
	min ⁻¹	rpm	1.0
Flow rate	L/min	US gpm	0.2642
	mL/rev	cc/rev	1.0

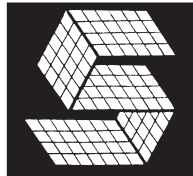
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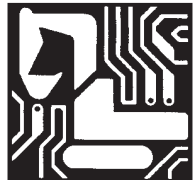
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OPERATIONAL PRINCIPLE

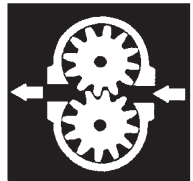
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