Workshop Manual



Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle) : Vol. No.TO18M-E
Technical Manual (Troubleshooting) : Vol. No.TT18M-E
Workshop Manual : Vol. No.W18M-E

INTRODUCTION

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 product information and service procedures.
- If you have any questions or comments, at if you found any errors regarding the contents of this manual, please contact using "Service Manual Revision Request Form" at the end of this manual. (Note: Do not tear off the form. Copy it for usage.):

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ADDITIONAL REFERENCES

- Please refer to the materials listed below in addition to this manual.
 - · The Operator's Manual
 - · The Parts Catalog

Operation Manual of the Engine Parts Catalog of the Engine

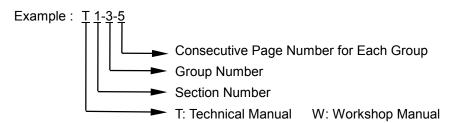
Hitachi Training Material

MANUAL COMPOSITION

- This manual consists of thr e proposes: the Technical Manual (Operations' Priciple), the Technical Manual (Troubleshooting) and the Workshop Manual.
 - Information in luc d in the Technical Manual (Operation are rinciple): technical of nation needed for redelivery and deliving operation and activation of all devices and sy times.
- Information included in the Technical Manual (Troubleshooting): technical information needed for operational performance tests, and troubleshooting procedures.
- Information included in the Workshop Manual: technical information needed for maintenance and repair of the machine, tools and devices needed for maintenance and repair, maintenance standards, and removal/installation and assemble/disassemble procedures.

PAGE NUMBER

 Each page has a number, located on the center lower part of the page, and each number contains the following information:



INTRODUCTION

SAFETY ALERT SYMBOL AND HEADLINE NOTATIONS

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

• A CAUTION:

Indicated potentially hazardous situation which could, if not avoided, result in personal injury or death.

• IMPORTANT:

Indicates a situation which, if not conformed to the instructions, could result in damage to the machine.

• Ø NOTE:

Indicates supplementary technical information or knowledge. W.

UNITS USED

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

MKSA system units and English units a also indicated in parenthheses just behir a country

Example: 24.5 MPa (250 kgf/cm², 3560 psi)

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

Quantity	To Convert From	nto	Multiply By	Quantity	To Convert From	Into	Multiply By
Length	m ı	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	PS	1.360
	_	US qt	1.057		kW	HP	1.341
	m^3	yd ³	1.308	Temperature	°C	°F	°C×1.8+32
Weight	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	1.0197		mL/rev	cc/rev	1.0
	N⋅m	lbf∙ft	0.7375		-		

SAFETY

RECOGNIZE SAFETY INFORMATION

- These are the **SAFETY ALERT SYMBOLS**.
 - When you see these symbols on your machine or in this manual, be alert to the potential for personal iniury
 - Follow recommended precautions and safe operating practices.



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UNDERSTAND SIGNAL WORDS

- On machine safety signs, signal words designating the degree or level of hazard - DANGER, WARNING of CAUTION - are used with the safety alert symbol.
 - DANGER indicates an imminently hazardous situation which, if not avoided, will result in death of persus injury.
 - WARNING indicates a potentially haz rd u situation which, if not avoided, could resi t in leaf or serious injury.
 - CAUTION indicates a pot train hazardous situation which, if not avoided, may result in minor or moderate injury.
 - DANGER or WA' IN IG safety signs are located near specific hazares. General precautions are listed on CAUTION afe'r signs.
 - Some saf , signs don't use any of the designated signal we as pove after the safety alert symbol are occa or ally used on this machine.
- CAUTION also calls attention to safety messages in this manual.
- To avoid confusing machine protection with personal safety messages, a signal word IMPORTANT indicates a situation which, if not avoided, could result in damage to the machine.
- **NOTE** indicates an additional explanation for an element of information.

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