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 three pations: the Technical Cal Manual (Operational Principle), the Technical Manual (Troubleshor in and the Workshop Manual.
 - Information Council in the Technical Manual (Operation of Finciple): technical Finciple): t
- 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:

Example : T 1-3-5

Consecutive Page Number for Each Group

Group Number

Section Number

T: Technical Manual W: Workshop Manual

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.

• PNOTE:
Indicate supplementary technical information or ow ow.

UNITS USED

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

MKS system units and English un 3 2 also indicated in parenthheses just b hin 15 units.

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 Converc	Into	Multiply By	Quantity	To Convert From	Into	Multiply By
Length	nr	in	0.03937	Pressure	MPa	kgf/cm ²	10.197
	m ı	ft	0.003281		MPa	psi	145.0
	L	US gal	0.2642	Power	kW	PS	1.360
Volume	L	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				

RECOGNIZE SAFETY INFORMATION

- This is the SAFETY ALERT SYMBOL.
 - When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.
 - Follow recommended precautions and safe operating practices.



SA-001

001-E01A-0001

UNDERSTAND SIGNAL WORDS

- On machine safety signs, signal words designating the degree or level of hazard - DANGER, WARNING or CAUTION - are used with the safety alert symbol.
 - DANGER indicates an imminently had used is situation which, if not avoided, will recurred used to or serious injury.
 - WARNING indicates a punn hazardous situation which, if not avide could result in death or serious injury
 - CAUTION indicates a potentially hazardous situation which if no a oided, may result in minor or moderate in ury.
 - DANGE or V ARNING safety signs are located near op cir. hazards. General precautions are listed of AU (ION safety signs.
- 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.

002-E01A-1223

A WARNING A CAUTION IMPORTANT NOTE

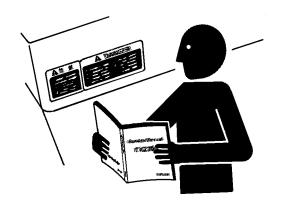
SA-1223

SAFETY

FOLLOW SAFETY INSTRUCTIONS

- Carefully read and follow all safety signs on the machine and all safety messages in this manual.
- Safety signs should be installed, maintained and replaced when necessary.
 - If a safety sign or operator's manual is damaged or missing, replace it with new one.
- Learn how to operate the machine and its controls correctly and safely.
- Allow only trained, qualified, authorized personnel to operate the machine.
- Keep your machine in proper working condition.
 - Unauthorized modifications of the machine may impair its function and/or safety and affect machine life.
- The safety messages in this SAFETY hapter are intended to illustrate basic safet pricecines of machines. However it is impossible these safety messages to cover every happens is situation you may encounter. If you have any questions, you should first consult your supervisor and/or your authorized dealer but operating or performing maintenance work on the machine.

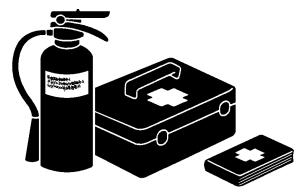
S003-E01B-0003



SA-003

PREPARE 1 OF EMERGENCIES

- Be preparation if a fire starts or if an accident occurs.
 - Keep a first aid kit and fire extinguisher on hand.
 - Thoroughly read and understand the label attached on the fire extinguisher to use it properly.
 - Establish emergency procedure guidelines to cope with fires and accidents.
 - Keep emergency numbers for doctors, ambulance service, hospital, and fire department posted near your telephone.



SA-437

004-E01A-0437

SAFETY

WEAR PROTECTIVE CLOTHING

• Wear close fitting clothing and safety equipment appropriate to the job.

You may need:

A hard hat

Safety shoes

Safety glasses, goggles, or face shield

Heavy gloves

Hearing protection

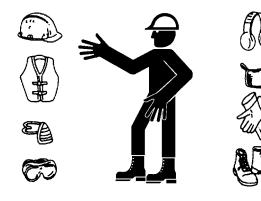
Reflective clothing

Wet weather gear

Respirator or filter mask.

Be sure to wear the correct equipment and clothing for the job. Do not take any chances.

- Avoid wearing loose clothing, jewelry, or other items that can catch on control levers or other parts of the machine.
- Operating equipment safely requires the ull attention of the operator. Do not wear ratio music headphones while operating the machine.



SA-438

005-E01A-0438

PROTECT AGAINST NOISE

- Prolonged exposure ploud noise can cause impairment or loss of the ring.
 - Wear a st. (a. 'e nearing protective device such as earmuffs or earplugs to protect against objection about or uncomfortably loud noises.



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INSPECT MACHINE

- Inspect your machine carefully each day or shift by walking around it before you start it to avoid personal injury.
 - In the walk-around inspection be sure to cover all points described in the "PRE-START INSPECTION" chapter in the operator's manual.



S007-E01A-0435

SA-435

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