

# Shop Manual

JTHB Hydraulic Breaker

Hydraulic Breaker	Serial numbers
JTHB08-3	10001-
JTHB10-3	10001-
JTHB20/S-3	10001-
JTHB30/S-3	10001-
JTHB40/S-3	10001-
JTHB50-3	10001-
JTHB60/M/S-3	10001-
JTHB120/S-3	10001-
JTHB210/C/S/SQ-3	10001-
JTHB350-3/J	10001-
JTHB355/NB-5B	20001-
JTHB450-3	10001-
JTHB455-5B	20001-
JTHB2700-3	10001-

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# **00 Index and foreword**

Index, Safety

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## FOREWORD, SAFETY, BASIC INFORMATION

### HOW TO READ THE SHOP MANUAL

- Some of the attachments and options described in this shop manual may not be available in some areas. If they are required, consult your Komatsu distributor.
- The materials and specifications are subject to change without notice.
- Actual machine may differ from the images which are contained in this manual. A typical model is shown in the illustrations of this shop manual.

### Composition of the shop manual

This shop manual contains technical information necessary to perform services in workshops. It is divided into the following chapters for the ease of use.

#### 00 INDEX AND FOREWORD

This section describes the index, foreword, safety, and basic information.

#### 01 SPECIFICATIONS

This section describes the specifications of the machine.

#### 10 STRUCTURE AND FUNCTION

This section describes the structure and operation of each component with respect to each system. "STRUCTURE AND FUNCTION" is helpful in not only understanding the structure of each component but performing troubleshooting.

#### 30 TESTING AND ADJUSTMENT

This section describes the measuring tools and measuring methods for testing and adjusting as well as the adjusting method of each part.

#### 40 TROUBLESHOOTING

This section describes troubleshooting of failure part and its remedy method on the occurrence of the failure. Descriptions of troubleshooting are sorted by failure mode.

#### 50 DISASSEMBLY AND ASSEMBLY

This section describes the special tools, work procedures, and safety precautions necessary for removal, installation, disassembly, and assembly of the components and parts. In addition, tightening torques, quantity, and weight of the coating materials, lubricants, and coolant necessary to these works are shown.

#### 60 MAINTENANCE STANDARD

This section describes the maintenance standard value of each component. The maintenance standard shows the criteria and remedies for disassembly and assembly.









#### 70 THE OTHER INFORMATION

This section describes the structure and function, testing and adjusting, and troubleshooting for all of the other components or equipment which cannot be separately classified in the appendix.

# 00 Index and foreword

## Symbols

Important safety and quality portions are marked with the following symbols so that shop manual is used effectively.

Symbol	Item	Remark
	Danger	This signal indicates an extremely hazardous situation which will result in death or serious injury if it is not avoided.
	Warning	This signal indicates a potentially hazardous situation which will result in death or serious injury if it is not avoided.
	Caution	This signal indicates a potentially hazardous situation which will result in injury or property damage around the machine if it is not avoided.
	Weight	This signal indicates the weight of parts and components, and items which requires great attention to a selection of wires and working posture for slinging work.
	Tightening torque	This signal indicates the tightening torque for portions which requires special care in assembling work.
	Coat	This signal indicates a place to be coated with adhesive, grease, etc. in assembling work.
	Oil and coolant	This signal indicates a place to supply oil, coolant, etc. and the quantity.
	Draining	This signal indicates a place to drain oil, coolant, etc. and the quantity.

## Signal word



Signal word for notice and remark describes the following.

Symbol	Item	Remark
NOTICE	Notice	If the precaution of this signal word is not observed, the machine damage or shortening of service life may occur.
REMARK	Remark	This signal word contains useful information to know.

## Unit

International System of Units (SI) is used in this manual. For reference, units that have been used in the past are given in { }.

## SAFETY NOTICE FOR OPERATION

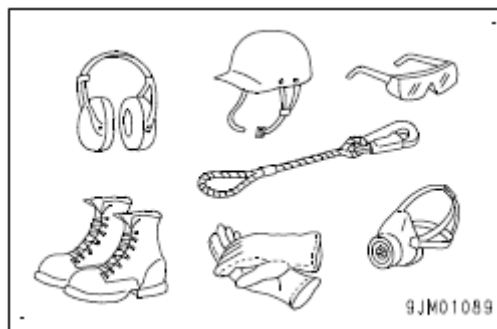
- Appropriate servicing and repair are extremely important to ensure safe operation of the machine. The shop manuals describe the effective and safe servicing and repair methods recommended by Komatsu. Some of the servicing and repair methods require the use of special tools designed by Komatsu for special purposes.
- The symbol mark  is indicated for such matters that require special precautions. The work indicated with this warning mark  should be performed according to the instructions with special attention. Should a hazardous situation occur or be anticipated during such work, be sure to keep safe first and take every necessary measures.

## Safety matters

- Well organized work place
- Correct work clothes
- Observance of work standard
- Enforcement of hand signals
- Prohibition against unlicensed persons operating and handling the machine
- Safety check before starting work
- Wear of dust glasses (for cleaning or grinding work)
- Wear welding goggles and protectors (for welding work)
- Being in good physical condition, and good preparation
- Always be alert and careful.

## General precautions

- ▲ **If the machine is handled incorrectly, it is dangerous. Read and understand what is described in the operation and maintenance manual before operation. Read and understand what is described in this manual before operation.**
- Read and understand the measuring of all the safety labels stuck to the machine before performing any greasing or repairs. For the locations of the safety labels and detailed explanation of precautions, see Operation and Maintenance Manual.
- Tools and removed parts in the workshop should be well organized. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dust, dirt, oil, or water on the floor. Smoke only in the designated areas. Never smoke while working.
- Keep all tools in good condition, learn the correct way to use them, and use the proper ones. Check the tools, machine, forklift truck, service car, etc. thoroughly before starting the work.
- Always wear safety shoes and helmet when performing any operation. Do not wear loose clothes, or clothes with buttons missing.



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