

# Shop Manual

HYDRAULIC  
EXCAVATOR

***PC290LC-11***

SERIAL NUMBERS 35001 and up

**KOMATSU**



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# 00 INDEX AND FOREWORD

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# FOREWORD, SAFETY, BASIC INFORMATION

## HOW TO READ THE SHOP MANUAL

### REMARK

- Some of the attachments and options described in this Shop Manual may not be available in some districts. If they are required, consult your Komatsu distributor.
- The materials and specifications are subject to change without advance notice.
- Shop Manuals are available for "Machine part" and "Engine part". For the engine unit, see the Shop Manual for the same model of the engine as the one which is mounted on the machine.

## Composition of Shop Manual

This Shop Manual contains technical information necessary for services performed in workshops. It is divided into the following chapters for the easy 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 by system. "Structure and function" is helpful in not only understanding the structure of each component but performing troubleshooting.

### 20 STANDARD VALUE TABLE

The standard values for new machine and failure criterion are described for testing and adjusting, and troubleshooting. Use the standard values table to check the standard values for testing and adjusting, and judge troubles in troubleshooting.

### 30 TESTING AND ADJUSTING

This section describes measuring tools and measuring methods for testing and adjusting, as well as the adjusting method of each part. The standard values and repair limit for "Testing and adjusting" are described in "Standard value table".

### 40 TROUBLESHOOTING

Troubleshooting of failure part and its remedy method on the occurrence of the failure are described. Troubleshooting is 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 torque and quantity and weight of the coating material, lubricants, and coolant necessary to these works are shown.

### 60 MAINTENANCE STANDARD

In this section, the maintenance standard value of each component is described. The maintenance standard shows the criteria and remedies for disassembly and assembly.

### 80 APPENDIX

The structure and function, testing and adjusting, and troubleshooting for all of the other components or equipment which cannot be separately classified are described together in the appendix.

### 90 CIRCUIT DIAGRAMS

This section describes hydraulic circuit diagrams and electrical circuit diagrams.

## Symbol

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