

# **Shop Manual**

# **PC3000-1**

## **HYDRAULIC MINING SHOVEL** **SERIAL NUMBERS PC3000-1 6199**

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With this **SERVICE MANUAL** KOMATSU MINING GERMANY GmbH provides you with the description of the construction and the function of the major systems of the hydraulic excavator PC 3000.

We describe for you all functions and how to carry out the inspections and adjustments.

### **How do you find "your" desired information?**

In the table of CONTENTS all the functions and components are shown in their sequence of the description.

If after reading this **SERVICE MANUAL** you can give us suggestions and comments for improvements - please do not hesitate to contact us.

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The editorial staff will be pleased about your co-operation.

**- FROM THE PRACTICE - FOR THE PRACTICE -**



- **This service manual corresponds to the state of development of the machine at the time the manual was produced.**
- **Variations based on special customers request and special equipment are not included in this manual.**

Correct service and repair is extremely important for the safe operation of the machine.

The machine has been designed to suit your work, but it is still impossible to totally avoid any danger due to the size of the machine.

When working on the machine, always try to avoid any possible danger.

**KEEP IN MIND**

- **BE CAREFUL**
- **BE ALERT**
- **THINK ABOUT WHAT YOU ARE DOING**

**Any PERSON** doing any work in or around the machine must be familiar with the local **SAFETY INSTRUCTIONS** and with the specific **SAFETY INSTRUCTIONS REGARDING TO HIS OCCUPATION**

In this part we describe all functions; testing and adjustment procedures. Of course for better understanding of the systems the hydraulic and electric circuit diagram is very helpful and a must for fault finding. Whenever it is possible for the description the circuit diagram numbers / codes are used. One who is not able to understand the circuit diagram or is not so familiar with the used symbols should study the hints for the circuit diagrams Section 10 and 11.

**Following abbreviations are used:**

<b>PDG</b>	=	<b>Pump-Distributor-Gear</b>
<b>LBA</b>	=	<b>Loader-Bucket-Attachment</b>
<b>BHA</b>	=	<b>Back-Hoe-Attachment</b>
<b>MRV</b>	=	<b>Main-Relief Valve (Primary valve)</b>
<b>SRV</b>	=	<b>Service-line-Relief Valve (Secondary valve)</b>
<b>ACV</b>	=	<b>Anti-Cavitation Valve</b>
<b>EPM</b>	=	<b>Electronic-Power Module</b>
<b>ESR</b>	=	<b>Electronic-Signal Rectifier</b>
<b>ELL</b>	=	<b>Electronic-Load Limiter</b>
<b>EFM</b>	=	<b>Electronic-Fuel Measurement</b>
<b>DRE</b>	=	<b>Druck-Reduzierventil-Elektrisch (Pressure Reducing Valve Electrical)</b>
<b>EGR</b>	=	<b>Elektronische-Grenzlast-Regelung (Electronic Load Limit Regulation)</b>
<b>EBL</b>	=	<b>Electronic Bucket Leveling</b>
<b>ETM</b>	=	<b>Electronic Text and Monitoring System</b>
<b>CLS</b>	=	<b>Central Lubrication System</b>
<b>STC</b>	=	<b>Swing ring Teeth Central Lubrication System</b>
<b>PTO</b>	=	<b>Power Take Off</b>
<b>RPM</b>	=	<b>Revolutions Per Minute</b>

**All adjustments and pressure settings for the hydraulic circuits must be carried out at normal operating temperature!**

**For service intervals, oil levels and filling capacities see the "Service Literature", because this literature is always made for the specific machine !**



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