SMPC30006225

Shop Manual

PC3000-1

HYDRAULIC MINING SHOVEL serial numbers PC3000-1 6225

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December 2006

Series 06192 -Diesel engine driven machines

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.

KOMATSU MINING GERMANY GmbH

- Service Training -

Postfach 180361 40570 Düsseldorf Tel.:0211 / 7109 - 206 Fax.:0211 / 743307

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.

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

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 !

- Technical DATA (Leaflet)
- Assembly PROCEDURE (Brochure)
- Foreword.

SECTION

- 1. Main assembly groups
- 2. Drive
- 3. Hydraulic oil tank
- 4. Hydraulic oil cooling
- 5. Controlling
- 6. Components
- 7. Main hydraulic pumps and pump regulation
- 8. **Operating hydraulic**
- 9. Hydraulic track tensioning system
- 10. Access ladder hydraulic operated
- 11. Central refilling system
- 12. Hints for the hydraulic circuit diagram
- **13.** Hints for the electric circuit diagram
- 14. Electronic Text Monitoring system

APPENDIX



• Each section includes a detailed table of contents.

It's a preview. You can download the full file by clicking the link below.

https://shopservicemanual.com/

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