

Shop Manual

HYDRAULIC
EXCAVATOR

PC500LC-10R

SERIAL NUMBERS 100001 and up

KOMATSU

00 Index and Foreword

Index

00 Index and Foreword	00-1
Abbreviation List	00-14
Foreword, Safety, Basic Information	00-20
How to Read the Shop Manual	00-20
Safety Notice for Operation	00-22
Precautions to Prevent Fire	00-30
Procedures If Fire Occurs	00-32
Precautions for Disposing of Waste Materials	00-33
Precautions When You Handle Hydraulic Equipment	00-34
Precautions When You Disconnect and Connect Pipings	00-37
Precautions When You Handle Electrical Equipment	00-43
Precautions When You Handle Fuel System Equipment	00-45
Precautions When You Handle Intake System Equipment	00-46
Practical Use of KOMTRAX	00-47
Disconnect and Connect Push-Pull Type Coupler	00-48
Precautions for Disconnection and Connection of Connectors	00-52
How to Disconnect and Connect Deutsch Connector	00-56
How to Disconnect and Connect Slide Lock Type Connector	00-57
How to Disconnect and Connect Connector with Lock to Pull	00-59
How to Disconnect and Connect Connector with Lock to Push	00-60
How to Disconnect and Connect Connector with Housing to Rotate	00-62
How to Read the Codes for Electric Cable	00-63
Explanation of Terms for Maintenance Standard	00-67
Standard Tightening Torque Table	00-70
Conversion Table	00-77
01 Specifications	01-1
Table of Contents	01-2
Abbreviation List	01-3
Specifications	01-9
Specification Drawing	01-9
Working Range Drawings	01-11
Specifications	01-13
Weight Table	01-19
Table of Fuel, Coolant, and Lubricants	01-23
10 Structure and Function	10-1
Table of Contents	10-2
Abbreviation List	10-5
Boot-up System	10-11
Layout Drawing of Boot-up System	10-11
System Operating Lamp System	10-13
Battery Disconnect Switch	10-14
Engine System	10-15
Layout Drawing of Engine System	10-15
Engine Control System	10-17
Auto-Deceleration System	10-20
Engine Automatic Warm-up System	10-22
Overheat Prevention System	10-24
Turbocharger Protection System	10-26
Automatic Idle Stop System	10-28
Component Parts of Engine System	10-31
Cooling System	10-34
Layout Drawing of Cooling System	10-34
Fan Speed Control System of Fan Clutch	10-36
Engine Output Control System of Fan Clutch	10-38
Component Parts of Cooling System	10-40
Control System	10-41

Layout Drawing of Control System	10-41
Machine Monitor System.....	10-44
KOMTRAX System	10-46
Component Parts of Control System	10-47
Hydraulic System	10-78
Layout Drawing of Hydraulic System.....	10-78
CLSS	10-82
Engine and Pump Combined Control System	10-105
Pump and Valve Control System.....	10-111
Component Parts of Hydraulic System.....	10-114
Work Equipment System.....	10-207
Layout Drawing of Work Equipment System	10-207
One-Touch Power Maximizing System	10-211
Machine Push-up System	10-213
PPC Lock System	10-215
Work Equipment and Travel Automatic Lock System	10-216
Attachment Oil Flow Adjuster System	10-218
Component Parts of Work Equipment System	10-220
Swing System	10-240
Layout Drawing of Swing System.....	10-240
Swing Control System Diagram	10-244
Component Parts of Swing System.....	10-248
Travel System	10-266
Layout Drawing of Travel System.....	10-266
System Diagram of Travel Control System.....	10-270
Component Parts of Travel System.....	10-272
Undercarriage and Frame	10-293
Layout Drawing of Undercarriage.....	10-293
Work Equipment	10-294
Structure of Work Equipment	10-294
Function of Work Equipment.....	10-295
Work Equipment Clearance Adjustment Shim.....	10-296
Bucket Clearance Adjustment Shim	10-297
CAB Related Parts.....	10-298
CAB	10-298
CAB Mount	10-299
CAB Tipping Stopper	10-300
20 Standard Value Table	20-1
Table of Contents	20-2
Abbreviation List	20-3
Standard Value Table for Engine	20-9
Standard Value Table for Engine: PC500LC-10R	20-9
Standard Value Table for Machine.....	20-13
Standard Value Table for Machine: PC500LC-10R.....	20-13
Machine Posture and Procedures to Measure Performance	20-27
30 Testing and Adjusting	30-1
Table of Contents	30-2
Abbreviation List	30-5
Related Information on Testing and Adjusting	30-11
Tools for Testing and Adjusting.....	30-11
Sketch of Tools for Testing and Adjusting	30-16
Engine and Cooling System	30-18
Examine Engine Speed.....	30-18
Examine Boost Pressure.....	30-21
Examine Exhaust Gas Temperature.....	30-24
Examine Exhaust Gas Color	30-26
Examine and Adjust Valve Clearance.....	30-28
Examine Compression Pressure.....	30-31

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

<https://shopservicemanual.com/>

Service Manuals from 2\$