

Shop Manual

HYDRAULIC
EXCAVATOR

PC500LC-8

SERIAL NUMBERS 71955 and up

KOMATSU

00 Index and foreword

Table of contents

00 Index and foreword	
Foreword and general information	00-9
Safety notice	00-9
How to read the shop manual	00-14
Explanation of terms for maintenance standard	00-16
Handling of electric equipment and hydraulic component	00-18
Handling of connectors newly used for engines	00-27
How to read electric wire code	00-30
Precautions when carrying out operation.....	00-33
Method of disassembling and connecting push-pull type coupler.....	00-36
Standard tightening torque table	00-39
Conversion table	00-43
01 Specification	
Specification and technical data.....	01-3
Specification dimension drawings	01-3
Specifications	01-5
Weight table	01-8
Table of fuel, coolant and lubricants.....	01-10
10 Structure, function and maintenance standard	
Engine and cooling system	10-3
Engine related parts	10-3
Radiator, oil cooler and aftercooler	10-4
Power train	10-5
Power train	10-5
Swing circle	10-6
Swing machinery	10-8
Final drive	10-10
Sprocket	10-14
Undercarriage and frame	10-17
Track frame and idler cushion.....	10-17
Track shoe	10-18
Triple-grouser shoe	10-20
Idler	10-22
Carrier roller	10-24
Track roller	10-25
Hydraulic system.....	10-26
Hydraulic equipment layout drawing	10-26
Hydraulic tank and filter	10-28
Hydraulic pump	10-30
Control valve	10-54
CLSS.....	10-66
Functions and operation by valve	10-70
Merge-divider valve.....	10-85
Attachment circuit selector valve	10-110
Holding valve	10-112
Valve control	10-117
PPC valve	10-118
Solenoid valve.....	10-134
PPC accumulator	10-136
Return oil filter.....	10-137
Center swivel joint.....	10-138
Travel motor	10-139
Swing motor	10-155

Hydraulic cylinder	10-164
Work equipment.....	10-166
Work equipment.....	10-166
Dimensions of components	10-168
Cab and its attachments	10-172
Air conditioner piping	10-172
Electrical system	10-173
Engine control.....	10-173
Electronic control system.....	10-183
Monitor system	10-208
Sensors.....	10-235
KOMTRAX system.....	10-238
20 Standard value table	
Standard service value table.....	20-3
Standard value table for engine	20-3
Standard value table for chassis related parts	20-4
30 Testing and adjusting	
Related information on testing and adjusting.....	30-3
Tools for testing, adjusting and troubleshooting.....	30-3
Sketches of special tools	30-7
Engine and cooling system.....	30-8
Measuring engine speed	30-8
Measuring air boost pressure	30-9
Measuring exhaust gas temperature	30-10
Measuring exhaust gas color.....	30-11
Adjusting valve clearance	30-12
Measuring compression pressure.....	30-14
Measuring blow-by pressure.....	30-16
Testing engine oil pressure	30-17
Testing EGR valve drive pressure	30-18
Handling fuel system parts.....	30-19
Releasing residual pressure from fuel system.....	30-19
Measuring fuel pressure	30-20
Handling during cylinder cut-out operation	30-21
Handling during no injection cranking operation.....	30-21
Measuring fuel return rate and leakage	30-22
Checking fuel circuit for leakage.....	30-26
Checking and adjusting fan belt and alternator belt.....	30-27
Checking and adjusting air conditioner compressor belt tension.....	30-28
Power train.....	30-29
Testing swing circle bearing clearance	30-29
Undercarriage and frame.....	30-30
Testing and adjusting track shoe tension.....	30-30
Hydraulic system	30-31
Measuring and adjusting oil pressure in work equipment, swing, and travel circuits.....	30-31
Measuring control circuit basic pressure	30-35
Checking and adjusting pump PC control circuit oil pressure.....	30-36
Checking and adjusting pump LS control circuit oil pressure	30-39
Measuring solenoid valve output pressure	30-44
Measuring PPC valve output pressure	30-47
Adjusting play of work equipment and swing PPC valves	30-48
Inspecting locations of hydraulic drift of work equipment	30-49
Releasing residual pressure from hydraulic circuit	30-51
Measuring oil leakage amount.....	30-52
Bleeding air from various parts	30-55
Electrical system.....	30-58

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

<https://shopservicemanual.com/>

Service Manuals from 2\$