

Shop Manual

HYDRAULIC
EXCAVATOR

PC228USLC-10

SERIAL NUMBERS 1002 and up

KOMATSU

SHOP MANUAL

HYDRAULIC EXCAVATOR

PC228USLC-10

Model Serial Number

PC228USLC- 1002 and up
10

00 Index and foreword

Index

00 Index and foreword	00-1
Index	00-2
Foreword, safety and general information	00-14
Important safety notice	00-14
How to read the shop manual	00-21
Explanation of terms for maintenance standard	00-23
Handling equipment of fuel system devices	00-25
Handling of intake system parts	00-26
Handling of hydraulic equipment	00-27
Method of disconnecting and connecting of push-pull type coupler	00-29
Handling of electrical equipment	00-32
How to read electric wire code	00-40
Precautions when performing operation	00-43
Practical use of KOMTRAX	00-48
Standard tightening torque table	00-49
List of abbreviation	00-55
Conversion table	00-60
01 Specification	01-1
Table of contents	01-2
Specifications	01-3
Specification drawing	01-3
Working range drawings	01-4
Specifications	01-5
Weight table	01-8
Table of fuel, coolant, and lubricants	01-10
10 Structure and function	10-1
Table of contents	10-2
Engine and cooling system	10-3
Engine related parts	10-3
KVTG	10-5
EGR system piping drawing	10-12
EGR system circuit diagram	10-14
EGR valve	10-16
EGR cooler	10-18
KCCV layout drawing	10-19
KCCV ventilator	10-21
KDPF	10-23
Cooling system	10-27
Power train	10-29
Power train system	10-29
Swing circle	10-31
Swing machinery	10-32
Final drive	10-34
Undercarriage and frame	10-36
Track frame and idler cushion	10-36
Hydraulic system	10-38
Hydraulic component layout	10-38
Valve control	10-40
Hydraulic tank	10-41
CLSS	10-43
Main pump	10-48
Control valve	10-79
Swing motor	10-135
Travel motor	10-147
PPC valve	10-160
Solenoid valve	10-183
Attachment circuit selector valve (for high pressure circuit)	10-187

Attachment circuit selector valve (for low pressure circuit).....	10-190
Anti-drop valve.....	10-192-1
Center swivel joint.....	10-193
Accumulator.....	10-195
Work equipment.....	10-197
Work equipment.....	10-197
Work equipment shim.....	10-198
Bucket play adjustment shim.....	10-199
Cab and its attachments.....	10-200
Cab mount and cab tipping stopper.....	10-200
ROPS cab.....	10-201
Electrical system.....	10-202
Electrical control system.....	10-202
Machine monitor system.....	10-257
KOMTRAX system.....	10-279
Sensor.....	10-282
20 Standard value tables.....	20-1
Table of contents.....	20-2
Standard service value table.....	20-3
Standard value table for engine.....	20-3
Standard value table for machine.....	20-4
Standard value table for electrical system.....	20-18
30 Testing and adjusting.....	30-1
Table of contents.....	30-2
Related information on testing and adjusting.....	30-3
Tools for testing and adjusting.....	30-3
Sketch of tools for testing and adjusting.....	30-7
Engine and cooling system.....	30-8
Testing engine speed.....	30-8
Testing boost pressure.....	30-9
Testing exhaust gas color.....	30-11
Testing and adjusting valve clearance.....	30-13
Testing compression pressure.....	30-16
Testing blowby pressure.....	30-20
Testing engine oil pressure.....	30-21
Testing EGR valve and KVGT oil pressures.....	30-22
Measuring fuel pressure.....	30-23
Measuring fuel delivery, return and leakage.....	30-29
Bleeding air from fuel system.....	30-34
Testing fuel circuit for leakage.....	30-36
Handling cylinder cutout mode operation.....	30-37
Handling no-injection cranking operation.....	30-38
Testing and adjusting air conditioner compressor belt tension.....	30-39
Replacing fan belt.....	30-41
Power train.....	30-42
Testing swing circle bearing clearance.....	30-42
Undercarriage and frame.....	30-43
Testing and adjusting track tension.....	30-43
Hydraulic system.....	30-44
Releasing remaining pressure from hydraulic circuit.....	30-44
Testing and adjusting oil pressure in work equipment, swing, and travel circuits.....	30-49
Testing oil pressure of control circuit.....	30-53
Testing and adjusting oil pressure in pump PC control circuit.....	30-54
Testing and adjusting oil pressure in pump LS control circuit.....	30-58
Testing outlet pressure of solenoid valve.....	30-66
Testing PPC valve outlet pressure.....	30-69
Adjusting play of work equipment and swing PPC valves.....	30-71
Testing pump swash plate sensor.....	30-72
Isolating the parts causing hydraulic drift in work equipment.....	30-73

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

<https://shopservicemanual.com/>

Service Manuals from 2\$