

Shop Manual

HYDRAULIC
EXCAVATOR

PC490LC-10

SERIAL NUMBERS 80001 and up

KOMATSU

SHOP MANUAL

HYDRAULIC EXCAVATOR

PC490LC-10

Model Serial Number

PC490LC-10 80001and up

00 Index and foreword

Index (ALL-0310-001-A-00-A)

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 drawing	01-4
Specification	01-5
Table of weight	01-8
Table of fuel, coolant and lubricants	01-9
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	10-11
EGR system circuit diagram	10-13
EGR valve	10-14
EGR cooler	10-16
KCCV layout drawing	10-18
KCCV ventilator	10-20
KDPF	10-22
Cooling system	10-26
Cooling fan pump	10-29
Cooling fan motor	10-39
Power train	10-47
Power train	10-47
Swing circle	10-49
Swing machinery	10-50
Final drive	10-52
Undercarriage and frame	10-54
Track frame and idler cushion	10-54
Hydraulic system	10-56
Hydraulic component layout	10-56
Valve control	10-58
Hydraulic tank	10-60
CLSS	10-63
Main pump	10-68
Control valve	10-91
Swing motor	10-146
Travel motor	10-157
PPC valve	10-172
Solenoid valve	10-191

Attachment circuit selector valve	10-194
Center swivel joint	10-197
Accumulator	10-199
Work equipment	10-200
Work equipment.....	10-200
Work equipment shims	10-201
Bucket play adjustment shim.....	10-202
Cab and its attachments	10-203
Cab mount and cab tipping stopper	10-203
ROPS cab	10-204
Electrical system	10-205
Electrical control system	10-205
Machine monitor system.....	10-254
KOMTRAX system.....	10-272
Sensor	10-274
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	20-5
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	30-6
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	30-18
Testing engine oil pressure	30-19
Testing EGR valve and KVGT oil pressure	30-20
Testing fuel pressure	30-21
Testing fuel leakage and return.....	30-23
Bleeding air from fuel system	30-26
Testing fuel circuit for leakage	30-28
Handling cylinder cutout mode operation.....	30-29
Handling no-injection cranking operation.....	30-30
Testing and adjusting air conditioner compressor belt tension	30-31
Replacing alternator belt	30-32
Fuel doser cleaning procedure	30-33
Writing compensation values at replacement of injector and engine controller	30-36
Power train.....	30-40
Testing swing circle bearing clearance	30-40
Undercarriage and frame.....	30-41
Testing and adjusting track tension	30-41
Hydraulic system	30-42
Releasing remaining pressure from hydraulic circuit.....	30-42
Testing and adjusting oil pressure in work equipment, swing and travel circuits.....	30-43
Testing oil pressure in control circuit.....	30-48
Testing and adjusting oil pressure in pump PC control circuit.....	30-49
Testing and adjusting oil pressure in pump LS control circuit	30-52
Testing output pressure of solenoid valve	30-57
Testing PPC valve output pressure	30-61
Adjusting play of work equipment and swing PPC valves.....	30-63
Testing pump swash plate sensor	30-64
Testing fan speed	30-65

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

<https://shopservicemanual.com/>

Service Manuals from 2\$