

Shop Manual

HYDRAULIC
EXCAVATOR

PC390LC-8MO

SERIAL NUMBERS 80699 and up

ecot3

KOMATSU

00 Index and foreword

Table of contents

00 Index and foreword	
Table of contents	00-2
Foreword, safety and general information	00-11
How to read the shop manual	00-18
Explanation of terms for maintenance standard	00-20
Handling equipment of fuel system devices.....	00-22
Handling of intake system parts	00-23
Handling of hydraulic equipment.....	00-24
Method of disconnecting and connectingof push-pull type coupler	00-26
Handling of electrical equipment.....	00-29
How to read electric wire code	00-38
Precautions when performing operation	00-41
Practical use of KOMTRAX.....	00-44
Standard tightening torque table	00-45
List of abbreviation.....	00-49
Conversion table	00-54
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.....	01-9
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.....	10-12
Undercarriage and frame	10-14
Track frame and recoil spring.....	10-14
Idler	10-16
Carrier roller	10-18
Track roller	10-19
Track shoe	10-20
Hydraulic system.....	10-24
Hydraulic equipment layout drawing	10-24
Hydraulic tank and filter	10-26
Hydraulic pump	10-28
Control valve	10-52
CLSS.....	10-64
Functions and operation by valve	10-68
Attachment circuit selector valve	10-107
Hydraulic drift prevention valve.....	10-110
Valve control	10-116
PPC valve	10-117
Solenoid valve.....	10-136
PPC accumulator	10-138
Center swivel joint.....	10-139
Travel motor.....	10-141

Swing motor.....	10-153
Work equipment cylinder	10-161
Work equipment.....	10-164
Work equipment.....	10-164
Dimensions of components	10-166
Electrical system.....	10-170
Engine control system	10-170
Electronic control system.....	10-179
Machine monitor system.....	10-204
Sensor	10-224
KOMTRAX system.....	10-227
 20 Standard value table	
Standard service value table	20-3
Standard value table for engine related parts	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
Testing engine speed.....	30-8
Testing air boost pressure.....	30-9
Testing exhaust gas color	30-10
Adjusting valve clearance	30-12
Testing compression pressure	30-14
Testing blowby pressure	30-18
Testing engine oil pressure	30-19
Testing fuel pressure.....	30-20
Handling during cylinder cutout operation	30-25
Handling during no-injection cranking operation.....	30-25
Testing fuel return rate and leakage	30-26
Bleeding air from fuel circuit	30-28
Checking fuel circuit for leakage.....	30-29
Testing and adjusting air compressor belt tension.....	30-30
Replacing fan belt	30-31
Replacing alternator belt.....	30-32
Power train.....	30-33
Testing clearance in swing circle bearings.....	30-33
Undercarriage and frame	30-34
Testing and adjusting track tension	30-34
Hydraulic system	30-35
Testing and adjusting oil pressure in work equipment, swing and travel circuit.....	30-35
Testing control circuit oil pressure.....	30-39
Testing and adjusting pump PC control circuit oil pressure	30-40
Testing and adjusting pump LS control circuit oil pressure	30-43
Testing solenoid valve output pressure.....	30-48
Testing PPC valve output pressure.....	30-52
Adjusting play of work equipment and swing PPC valves	30-53
Inspecting locations of hydraulic drift of work equipment	30-54
Releasing remaining pressure in hydraulic circuit	30-56
Testing oil leakage amount	30-57
Bleeding air from various parts	30-59
Electrical sysytem	30-62
Special functions of machine monitor	30-62
Handling voltage circuit of engine controller	30-112
Preparation work for troubleshooting of electrical system	30-113

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

<https://shopservicemanual.com/>

Service Manuals from 2\$