

Shop Manual

HYDRAULIC
EXCAVATOR

PC490LC-11

SERIAL NUMBERS 85001 and up

KOMATSU

00 Index and Foreword

Index

00 Index and Foreword	00-1
Abbreviation List	00-20
Foreword, Safety, Basic Information.....	00-23
How to Read the Shop Manual	00-23
Safety Notice for Operation	00-25
Precautions to Prevent Fire.....	00-33
Procedures If Fire Occurs	00-35
Precautions When You Discard Waste Materials.....	00-36
Procedures for Exhaust Gas Regulations.....	00-37
Precautions for DEF.....	00-38
Store DEF	00-39
Precautions When You Handle Hydraulic Equipment.....	00-40
Precautions When You Disconnect and Connect Pipings.....	00-43
Precautions When You Handle Electrical Equipment	00-50
Precautions When You Handle Fuel System Equipment	00-52
Precautions When You Handle Intake System Equipment	00-53
Practical Use of KOMTRAX	00-54
Disconnect and Connect Push-Pull Type Coupler	00-55
Precautions for Disconnection and Connection of Connectors	00-59
Disconnect and Connect Deutsch Connector	00-63
How to Disconnect and Connect Slide Lock Type Connector	00-64
Disconnect and Connect Connector with Lock to Pull	00-66
Disconnect and Connect Connector with Lock to Push	00-67
Disconnect and Connect Connector with Housing to Rotate	00-69
How to Read the Codes for Electric Cable	00-70
Explanation of Terms for Maintenance Standard	00-74
Standard Tightening Torque Table.....	00-77
Conversion Table	00-84
01 Specification.....	01-1
Table of Contents	01-2
Specifications	01-3
Specification Drawing.....	01-3
Working Range Drawings.....	01-5
Specifications.....	01-6
Weight Table	01-9
Table of Fuel, Coolant, and Lubricants	01-11
10 Structure and Function	10-1
Table of Contents	10-2
Urea SCR System.....	10-6
Layout Drawing of Urea SCR System (Applicable Machine: 85001 to 86052).....	10-6
Layout Drawing of Urea SCR System (Applicable Machine: 86053 to 86205).....	10-10
Layout Drawing of Urea SCR System (Applicable Machine: 86206 and up).....	10-14
Urea SCR System Diagram	10-18
Function of Urea SCR System	10-19
Component Parts of Urea SCR System	10-37
Boot-up System	10-49
Layout Drawing of Boot-up System	10-49
System Operating Lamp System.....	10-51
Battery Disconnect Switch.....	10-52
Engine System.....	10-53
Layout Drawing of Engine System (Applicable Machine: 85001 to 86205).....	10-53
Layout Drawing of Engine System (Applicable Machine: 86206 and up).....	10-56
Engine Control System	10-59
Auto-Deceleration System.....	10-62
Engine Automatic Warm-up System.....	10-64
Overheat Prevention System	10-66

Turbocharger Protection System	10-69
Automatic Idle Stop System	10-71
Component Parts of Engine System	10-74
Cooling System	10-91
Layout Drawing of Cooling System	10-91
Fan Speed Control System of Hydraulic Fan	10-94
Engine Output Control System of Hydraulic Fan	10-96
Fan Reverse Rotation System of Hydraulic Fan	10-99
Component Parts of Cooling System	10-100
Control System	10-114
Layout Drawing of Control System	10-114
Machine Monitor System	10-117
KomVision Controller	10-119
KomVision Camera	10-123
KomVision System	10-124
KOMTRAX System	10-128
Component Parts of Control System	10-129
Hydraulic System	10-163
Layout Drawing of Hydraulic System	10-163
CLSS	10-165
Engine and Pump Combined Control System	10-185
Pump and Valve Control System	10-192
Component Parts of Hydraulic System	10-195
Work Equipment System	10-286
Layout Drawing of Work Equipment System	10-286
Structure of Valve Control	10-291
One-Touch Power Maximizing System	10-292
Machine Push-up System	10-294
PPC Lock System	10-296
Work Equipment and Travel Automatic Lock System	10-297
Attachment Oil Flow Adjuster System	10-299
Tool Control System	10-301
Component Parts of Work Equipment System	10-303
Swing System	10-334
Layout Drawing of Swing System	10-334
Swing Control System Diagram	10-340
Component Parts of Swing System	10-344
Travel System	10-359
Layout Drawing of Travel System	10-359
System Diagram of Travel Control System	10-363
Component Parts of Travel System	10-365
Undercarriage and Frame	10-386
Layout Drawing of Undercarriage	10-386
Work Equipment	10-387
Structure of Work Equipment	10-387
Function of Work Equipment	10-388
Work Equipment Clearance Adjustment Shim	10-389
Bucket Clearance Adjustment Shim	10-390
CAB Related Parts	10-391
ROPS CAB	10-391
CAB Mount	10-392
CAB Tipping Stopper	10-393
20 Standard Value Table	20-1
Table of Contents	20-2
Standard Value Table for Engine	20-3
Standard Value Table for Engine: PC490LC-11	20-3
Standard Value Table for Machine	20-6
Standard Value Table for Machine: PC490LC-11	20-6

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

<https://shopservicemanual.com/>

Service Manuals from 2\$