

# Shop Manual

HYDRAULIC  
EXCAVATOR

***PC900LC-11***  
***PC950 -11E0***  
***PC950LC-11E0***

SERIAL NUMBERS      PC900LC- 10013  
                                 PC950- 10026      and up  
                                 PC950LC- 10026

**KOMATSU**



---

# 00 Index and Foreword

---

# Index

00 Index and Foreword .....	00-1
Abbreviation List .....	00-24
Foreword, Safety, Basic Information .....	00-27
How to Read the Shop Manual .....	00-27
Safety Notice for Operation .....	00-29
Precautions to Prevent Fire .....	00-37
Procedures If Fire Occurs .....	00-39
Precautions When You Dispose of Waste Materials .....	00-40
Procedures for Exhaust Gas Regulations .....	00-41
Precautions for DEF .....	00-42
Store DEF .....	00-43
Precautions When You Handle Hydraulic Equipment .....	00-44
Precautions When You Disconnect and Connect Pipings .....	00-47
Precautions When You Handle Electrical Equipment .....	00-54
Precautions When You Handle Fuel System Equipment .....	00-56
Precautions When You Handle Intake System Equipment .....	00-57
Practical Use of KOMTRAX .....	00-58
Disconnect and Connect Push-Pull Type Coupler .....	00-59
Precautions for Disconnection and Connection of Connectors .....	00-63
How to Disconnect and Connect Deutsch Connector .....	00-67
How to Disconnect and Connect Slide Lock Type Connector .....	00-68
How to Disconnect and Connect Connector with Lock to Pull .....	00-70
How to Disconnect and Connect Connector with Lock to Push .....	00-71
How to Disconnect and Connect Connector with Housing to Rotate .....	00-73
How to Read the Codes for Electric Cable .....	00-74
Explanation of Terms for Maintenance Standard .....	00-78
Standard Tightening Torque Table .....	00-81
Conversion Table .....	00-88
01 Specifications .....	01-1
Table of Contents .....	01-2
Specifications .....	01-3
Specification Drawing .....	01-3
Working Range Drawings .....	01-10
Specifications .....	01-17
Weight Table .....	01-42
How to Use Fuel, Coolant and Lubricants by Ambient Temperature (PC900LC-11) .....	01-55
How to Use Fuel, Coolant and Lubricants by Ambient Temperature ( PC950-11E0, PC950LC-11E0) .....	01-57
10 Structure and Function .....	10-1
Table of Contents .....	10-2
Urea SCR System .....	10-6
Layout Drawing of Urea SCR System .....	10-6
Urea SCR System Diagram .....	10-10
Function of Urea SCR System .....	10-11
Component Parts of Urea SCR System .....	10-27
Boot-up System .....	10-36
Layout Drawing of Boot-up System .....	10-36
System Operating Lamp System .....	10-37
Battery Disconnect Switch .....	10-39
Engine System .....	10-40
Layout Drawing of Engine System .....	10-40
Engine Control System .....	10-42
Auto-Deceleration System .....	10-45
Automatic Low Idle System .....	10-47
Engine Automatic Warm-up System .....	10-49
Overheat Prevention System .....	10-51

Turbocharger Protection System .....	10-53
Automatic Idle Stop System .....	10-54
Component Parts of Engine System .....	10-57
Cooling System .....	10-78
Layout Drawing of Cooling System .....	10-78
Fan Speed Control System of Hydraulic Fan .....	10-81
Engine Output Control System of Hydraulic Fan .....	10-83
Fan Reverse Rotation System of Hydraulic Fan .....	10-85
Component Parts of Cooling System .....	10-87
Control System .....	10-110
Layout Drawing of Control System .....	10-110
Machine Monitor System .....	10-112
KomVision System .....	10-115
KOMTRAX System .....	10-120
Component Parts of Control System .....	10-121
Hydraulic System .....	10-173
Layout Drawing of Hydraulic System .....	10-173
Electronic OLSS .....	10-176
Engine and Pump Combined Control System .....	10-179
Component Parts of Hydraulic System .....	10-183
Work Equipment System .....	10-238
Layout Drawing of Work Equipment System .....	10-238
Work Equipment System Diagram .....	10-244
Machine Push-up System .....	10-246
Boom Shockless Control Function .....	10-248
PPC Lock System .....	10-250
Work Equipment and Travel Automatic Lock System .....	10-252
Component Parts of Work Equipment System .....	10-255
Swing System .....	10-282
Layout Drawing of Swing System .....	10-282
Swing Control System Diagram .....	10-286
Component Parts of Swing System .....	10-292
Travel System .....	10-352
Layout Drawing of Travel System .....	10-352
System Diagram of Travel Control System .....	10-355
Component Parts of Travel System .....	10-357
Undercarriage and Frame .....	10-396
Layout Drawing of Undercarriage .....	10-396
Work Equipment .....	10-398
Structure of Work Equipment .....	10-398
Function of Work Equipment .....	10-399
Work Equipment Clearance Adjustment Shim .....	10-400
Bucket Clearance Adjustment Shim .....	10-401
CAB Related Parts .....	10-402
CAB .....	10-402
CAB Mount .....	10-403
CAB Tipping Stopper .....	10-404
20 Standard Value Table .....	20-1
Table of Contents .....	20-2
Standard Value Table for Engine .....	20-3
Standard Value Table for Engine: PC900LC-11 .....	20-3
Standard Value Table for Engine: PC900LC-11(SE) .....	20-7
Standard Value Table for Engine: PC950-11E0 .....	20-11
Standard Value Table for Engine: PC950-11E0(SE) .....	20-15
Standard Value Table for Engine: PC950LC-11E0 .....	20-19
Standard Value Table for Engine: PC950LC-11E0(SE) .....	20-23
Standard Value Table for Machine .....	20-27
Standard Value Table for Machine: PC900LC-11 .....	20-27

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

<https://shopservicemanual.com/>

Service Manuals from 2\$