

# Shop Manual

HYDRAULIC  
EXCAVATOR

PC2&, I G@7 -11

SERIAL NUMBERS ) \$\$& and up

**KOMATSU**



---

# 00 INDEX AND FOREWORD

---

# INDEX

00 INDEX AND FOREWORD .....	00-1
ABBREVIATION LIST .....	00-19
FOREWORD, SAFETY, BASIC INFORMATION .....	00-25
HOW TO READ THE SHOP MANUAL.....	00-25
SAFETY NOTICE FOR OPERATION.....	00-27
PRECAUTIONS TO PREVENT FIRE.....	00-35
ACTIONS IF FIRE OCCURS .....	00-37
PRECAUTIONS FOR DISPOSING OF WASTE MATERIALS .....	00-38
ACTIONS TAKEN TO MEET EXHAUST GAS REGULATIONS.....	00-39
PRECAUTIONS FOR DEF.....	00-40
PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT .....	00-41
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS.....	00-44
PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT.....	00-51
PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT .....	00-53
PRECAUTIONS FOR HANDLING INTAKE SYSTEM EQUIPMENT .....	00-54
PRACTICAL USE OF KOMTRAX.....	00-55
DISCONNECT AND CONNECT PUSH-PULL TYPE COUPLER .....	00-56
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF CONNECTORS .....	00-60
METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR .....	00-64
METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR .....	00-65
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PULL ...	00-67
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PUSH ..	00-68
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH HOUSING TO ROTATE .	00-70
HOW TO READ ELECTRICAL WIRE CODE .....	00-71
EXPLANATION OF TERMS FOR MAINTENANCE STANDARD.....	00-75
STANDARD TIGHTENING TORQUE TABLE.....	00-78
CONVERSION TABLE .....	00-85
01 SPECIFICATIONS .....	01-1
CONTENTS .....	01-2
ABBREVIATION LIST .....	01-3
SPECIFICATIONS .....	01-9
SPECIFICATION DRAWING.....	01-9
WORKING RANGE DRAWINGS .....	01-11
SPECIFICATIONS .....	01-12
WEIGHT TABLE .....	01-15
FUEL, COOLANT, LUBRICANTS (FOR EUROPEAN UNION).....	01-17
10 STRUCTURE AND FUNCTION .....	10-1
CONTENTS .....	10-2
ABBREVIATION LIST .....	10-5
UREA SCR SYSTEM.....	10-11
LAYOUT DRAWING OF UREA SCR SYSTEM .....	10-11
UREA SCR SYSTEM DIAGRAM .....	10-16
FUNCTION OF UREA SCR SYSTEM.....	10-17
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 .....	10-38
BATTERY DISCONNECT SWITCH .....	10-40
ENGINE SYSTEM .....	10-41
LAYOUT DRAWING OF ENGINE SYSTEM.....	10-41
ENGINE CONTROL SYSTEM .....	10-43
AUTO-DECELERATION SYSTEM.....	10-46
ENGINE AUTOMATIC WARM-UP SYSTEM.....	10-48
OVERHEAT PREVENTION SYSTEM.....	10-50
TURBOCHARGER PROTECTION SYSTEM.....	10-53

AUTOMATIC IDLE STOP SYSTEM .....	10-55
COMPONENT PARTS OF ENGINE SYSTEM .....	10-58
COOLING SYSTEM.....	10-76
LAYOUT DRAWING OF COOLING SYSTEM .....	10-76
FAN SPEED CONTROL SYSTEM OF FAN CLUTCH .....	10-78
ENGINE OUTPUT CONTROL SYSTEM OF FAN CLUTCH.....	10-80
COMPONENT PARTS OF COOLING SYSTEM.....	10-82
CONTROL SYSTEM.....	10-83
LAYOUT DRAWING OF CONTROL SYSTEM .....	10-83
MACHINE MONITOR SYSTEM .....	10-86
KomVision SYSTEM .....	10-88
KOMTRAX SYSTEM.....	10-92
COMPONENT PARTS OF CONTROL SYSTEM.....	10-93
HYDRAULIC SYSTEM.....	10-128
LAYOUT DRAWING OF HYDRAULIC SYSTEM .....	10-128
CLSS .....	10-132
ENGINE AND PUMP COMBINED CONTROL SYSTEM.....	10-151
PUMP AND VALVE CONTROL SYSTEM .....	10-157
COMPONENT PARTS OF HYDRAULIC SYSTEM .....	10-160
WORK EQUIPMENT SYSTEM .....	10-245
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM .....	10-245
ONE-TOUCH POWER MAXIMIZING SYSTEM .....	10-250
PPC LOCK SYSTEM .....	10-252
WORK EQUIPMENT AND TRAVEL AUTOMATIC LOCK SYSTEM .....	10-253
OIL FLOW ADJUSTER SYSTEM FOR ATTACHMENT.....	10-255
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM.....	10-257
SWING SYSTEM.....	10-288
LAYOUT DRAWING OF SWING SYSTEM .....	10-288
SWING CONTROL SYSTEM DIAGRAM .....	10-292
COMPONENT PARTS OF SWING SYSTEM.....	10-296
TRAVEL SYSTEM.....	10-310
LAYOUT DRAWING OF TRAVEL SYSTEM.....	10-310
TRAVEL CONTROL SYSTEM DIAGRAM.....	10-314
COMPONENT PARTS OF TRAVEL SYSTEM .....	10-316
UNDERCARRIAGE AND FRAME.....	10-337
LAYOUT DRAWING OF UNDERCARRIAGE .....	10-337
WORK EQUIPMENT.....	10-339
STRUCTURE OF WORK EQUIPMENT .....	10-339
FUNCTION OF WORK EQUIPMENT .....	10-340
WORK EQUIPMENT CLEARANCE ADJUSTMENT SHIM.....	10-341
BUCKET CLEARANCE ADJUSTMENT SHIM .....	10-342
CAB AND ITS ATTACHMENTS .....	10-343
ROPS CAB .....	10-343
CAB MOUNT .....	10-344
CAB TIPPING STOPPER .....	10-345
TAKE WIRING HARNESS OUT OF CAB.....	10-346
20 STANDARD VALUE TABLE .....	20-1
CONTENTS .....	20-2
ABBREVIATION LIST .....	20-3
STANDARD VALUE TABLE FOR ENGINE .....	20-9
STANDARD VALUE TABLE FOR ENGINE: PC228USLC-11 .....	20-9
STANDARD VALUE TABLE FOR MACHINE.....	20-14
STANDARD VALUE TABLE FOR MACHINE: PC228USLC-11.....	20-14
MACHINE POSTURE AND PROCEDURE FOR MEASURING PERFORMANCE .....	20-28
30 TESTING AND ADJUSTING.....	30-1
CONTENTS .....	30-2
ABBREVIATION LIST .....	30-5
RELATED INFORMATION ON TESTING AND ADJUSTING .....	30-11

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

<https://shopservicemanual.com/>

Service Manuals from 2\$