

# Shop Manual

**HYDRAULIC  
EXCAVATOR**

**PC240LC -11E0**

**PC240NLC -11E0**

**SERIAL NUMBERS K75274 and up**

**KOMATSU**



---

# 00 INDEX AND FOREWORD

---

# INDEX

00 INDEX AND FOREWORD .....	00-1
ABBREVIATION LIST .....	00-20
FOREWORD, SAFETY, BASIC INFORMATION .....	00-26
HOW TO READ THE SHOP MANUAL .....	00-26
SAFETY NOTICE FOR OPERATION .....	00-28
PRECAUTIONS TO PREVENT FIRE .....	00-36
ACTIONS IF FIRE OCCURS .....	00-38
PRECAUTIONS FOR DISPOSING OF WASTE MATERIALS .....	00-39
ACTIONS TAKEN TO MEET EXHAUST GAS REGULATIONS .....	00-40
PRECAUTIONS FOR DEF .....	00-41
STORE AdBlue/DEF .....	00-42
PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT .....	00-43
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS .....	00-46
PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT .....	00-53
PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT .....	00-55
PRECAUTIONS FOR HANDLING INTAKE SYSTEM EQUIPMENT .....	00-56
PRACTICAL USE OF KOMTRAX .....	00-57
DISCONNECT AND CONNECT PUSH-PULL TYPE COUPLER .....	00-58
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF CONNECTORS .....	00-62
METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR .....	00-66
METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR .....	00-67
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PULL ..	00-69
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PUSH ..	00-70
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH HOUSING TO ROTATE .	00-72
HOW TO READ ELECTRICAL WIRE CODE .....	00-73
EXPLANATION OF TERMS FOR MAINTENANCE STANDARD .....	00-77
STANDARD TIGHTENING TORQUE TABLE .....	00-80
CONVERSION TABLE .....	00-87
01 SPECIFICATIONS .....	01-1
CONTENTS .....	01-2
ABBREVIATION LIST .....	01-3
SPECIFICATIONS .....	01-9
SPECIFICATION DRAWING .....	01-9
WORKING RANGE DRAWINGS .....	01-10
SPECIFICATIONS .....	01-11
WEIGHT TABLE .....	01-14
TABLE OF FUEL, COOLANT, AND LUBRICANTS .....	01-16
10 STRUCTURE AND FUNCTION .....	10-1
CONTENTS .....	10-2
ABBREVIATION LIST .....	10-6
UREA SCR SYSTEM .....	10-12
LAYOUT DRAWING OF UREA SCR SYSTEM .....	10-13
UREA SCR SYSTEM DIAGRAM .....	10-18
FUNCTION OF UREA SCR SYSTEM .....	10-19
COMPONENT PARTS OF UREA SCR SYSTEM .....	10-29
BOOT-UP SYSTEM .....	10-38
LAYOUT DRAWING OF BOOT-UP SYSTEM .....	10-38
SYSTEM OPERATING LAMP SYSTEM .....	10-40
BATTERY DISCONNECT SWITCH .....	10-41
ENGINE SYSTEM .....	10-42
LAYOUT DRAWING OF ENGINE SYSTEM .....	10-42
ENGINE CONTROL SYSTEM .....	10-44
AUTO-DECELERATION SYSTEM .....	10-47
ENGINE AUTOMATIC WARM-UP SYSTEM .....	10-49
OVERHEAT PREVENTION SYSTEM .....	10-51

TURBOCHARGER PROTECTION SYSTEM .....	10-54
AUTOMATIC IDLE STOP SYSTEM .....	10-56
COMPONENT PARTS OF ENGINE SYSTEM .....	10-59
COOLING SYSTEM.....	10-77
LAYOUT DRAWING OF COOLING SYSTEM .....	10-77
CONTROL SYSTEM.....	10-79
LAYOUT DRAWING OF CONTROL SYSTEM .....	10-79
MACHINE MONITOR SYSTEM .....	10-82
KomVision SYSTEM .....	10-83
KOMTRAX SYSTEM.....	10-87
PPC LEVERS .....	10-88
AUTOMATIC GREASE SYSTEM .....	10-90
COMPONENT PARTS OF CONTROL SYSTEM.....	10-105
SENSOR.....	10-142
HYDRAULIC SYSTEM.....	10-154
LAYOUT DRAWING OF HYDRAULIC SYSTEM .....	10-154
CLSS .....	10-160
ENGINE AND PUMP COMBINED CONTROL SYSTEM.....	10-179
PUMP AND VALVE CONTROL SYSTEM .....	10-185
COMPONENT PARTS OF HYDRAULIC SYSTEM .....	10-188
WORK EQUIPMENT SYSTEM .....	10-273
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM .....	10-273
STRUCTURE OF VALVE CONTROL .....	10-278
ONE-TOUCH POWER MAXIMIZING SYSTEM .....	10-280
PPC LOCK SYSTEM .....	10-282
WORK EQUIPMENT AND TRAVEL AUTOMATIC LOCK SYSTEM .....	10-283
OIL FLOW ADJUSTER SYSTEM FOR ATTACHMENT.....	10-285
TOOL CONTROL SYSTEM .....	10-288
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM.....	10-290
SWING SYSTEM .....	10-319
LAYOUT DRAWING OF SWING SYSTEM .....	10-319
SWING CONTROL SYSTEM DIAGRAM .....	10-323
COMPONENT PARTS OF SWING SYSTEM.....	10-327
TRAVEL SYSTEM.....	10-342
LAYOUT DRAWING OF TRAVEL SYSTEM.....	10-342
TRAVEL CONTROL SYSTEM DIAGRAM.....	10-346
COMPONENT PARTS OF TRAVEL SYSTEM .....	10-348
UNDERCARRIAGE AND FRAME.....	10-369
LAYOUT DRAWING OF UNDERCARRIAGE .....	10-369
WORK EQUIPMENT.....	10-371
STRUCTURE OF WORK EQUIPMENT .....	10-371
FUNCTION OF WORK EQUIPMENT .....	10-372
WORK EQUIPMENT CLEARANCE ADJUSTMENT SHIM.....	10-373
BUCKET CLEARANCE ADJUSTMENT SHIM .....	10-374
CAB AND ITS ATTACHMENTS .....	10-375
ROPS CAB .....	10-375
CAB MOUNT .....	10-376
CAB TIPPING STOPPER .....	10-377
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: PC240LC-11E0, PC240NLC-11E0.....	20-9
STANDARD VALUE TABLE FOR MACHINE.....	20-13
STANDARD VALUE TABLE FOR MACHINE: PC240LC-11E0, PC240NLC-11E0 .....	20-13
MACHINE POSTURE AND PROCEDURE FOR MEASURING PERFORMANCE .....	20-27
STANDARD VALUE TABLE FOR ELECTRICAL .....	20-31
STANDARD VALUE TABLE FOR ELECTRICAL .....	20-31

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

<https://shopservicemanual.com/>

Service Manuals from 2\$