

Shop Manual

HYDRAULIC
EXCAVATOR

PC240LC-11

SERIAL NUMBERS 95001 and up

KOMATSU

INDEX

00 INDEX AND FOREWORD	00-1
ABBREVIATION LIST	00-19
FOREWORD, SAFETY, BASIC INFORMATION	00-24
HOW TO READ THE SHOP MANUAL	00-24
SAFETY NOTICE FOR OPERATION	00-26
PRECAUTIONS TO PREVENT FIRE	00-34
ACTIONS IF FIRE OCCURS	00-36
PRECAUTIONS FOR DISPOSING OF WASTE MATERIALS	00-37
ACTIONS TAKEN TO MEET EXHAUST GAS REGULATIONS	00-38
PRECAUTIONS FOR DEF	00-39
STORE AdBlue/DEF	00-40
PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT	00-41
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS	00-44
PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT	00-50
PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT	00-52
PRECAUTIONS FOR HANDLING 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
METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR	00-63
METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR	00-64
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PULL ..	00-66
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PUSH ..	00-67
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH HOUSING TO ROTATE .	00-69
HOW TO READ ELECTRICAL WIRE CODE	00-70
EXPLANATION OF TERMS FOR MAINTENANCE STANDARD	00-74
STANDARD TIGHTENING TORQUE TABLE	00-77
CONVERSION TABLE	00-84
01 SPECIFICATIONS	01-1
CONTENTS	01-2
ABBREVIATION LIST	01-3
SPECIFICATIONS	01-8
SPECIFICATION DRAWING	01-8
WORKING RANGE DRAWINGS	01-9
SPECIFICATIONS	01-10
WEIGHT TABLE	01-13
TABLE OF FUEL, COOLANT, AND LUBRICANTS	01-15
10 STRUCTURE AND FUNCTION	10-1
CONTENTS	10-2
ABBREVIATION LIST	10-5
UREA SCR SYSTEM	10-10
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	10-34
BOOT-UP SYSTEM	10-43
LAYOUT DRAWING OF BOOT-UP SYSTEM	10-43
SYSTEM OPERATING LAMP SYSTEM	10-45
BATTERY DISCONNECT SWITCH	10-46
ENGINE SYSTEM	10-47
LAYOUT DRAWING OF ENGINE SYSTEM	10-47
ENGINE CONTROL SYSTEM	10-49
AUTO-DECELERATION SYSTEM	10-52
ENGINE AUTOMATIC WARM-UP SYSTEM	10-54
OVERHEAT PREVENTION SYSTEM	10-56

TURBOCHARGER PROTECTION SYSTEM	10-59
AUTOMATIC IDLE STOP SYSTEM	10-61
COMPONENT PARTS OF ENGINE SYSTEM	10-64
COOLING SYSTEM.....	10-81
LAYOUT DRAWING OF COOLING SYSTEM	10-81
CONTROL SYSTEM.....	10-83
LAYOUT DRAWING OF CONTROL SYSTEM	10-83
MACHINE MONITOR SYSTEM	10-86
KOMTRAX SYSTEM.....	10-87
COMPONENT PARTS OF CONTROL SYSTEM.....	10-88
HYDRAULIC SYSTEM.....	10-117
LAYOUT DRAWING OF HYDRAULIC SYSTEM	10-117
CLSS	10-123
ENGINE AND PUMP COMBINED CONTROL SYSTEM.....	10-141
PUMP AND VALVE CONTROL SYSTEM	10-147
COMPONENT PARTS OF HYDRAULIC SYSTEM	10-150
WORK EQUIPMENT SYSTEM	10-235
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM	10-235
STRUCTURE OF VALVE CONTROL.....	10-240
ONE-TOUCH POWER MAXIMIZING SYSTEM	10-242
PPC LOCK SYSTEM	10-244
WORK EQUIPMENT AND TRAVEL AUTOMATIC LOCK SYSTEM	10-245
OIL FLOW ADJUSTER SYSTEM FOR ATTACHMENT.....	10-247
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM.....	10-249
SWING SYSTEM	10-280
LAYOUT DRAWING OF SWING SYSTEM	10-280
SWING CONTROL SYSTEM DIAGRAM	10-284
COMPONENT PARTS OF SWING SYSTEM.....	10-288
TRAVEL SYSTEM.....	10-302
LAYOUT DRAWING OF TRAVEL SYSTEM.....	10-302
TRAVEL CONTROL SYSTEM DIAGRAM.....	10-306
COMPONENT PARTS OF TRAVEL SYSTEM	10-308
UNDERCARRIAGE AND FRAME.....	10-329
LAYOUT DRAWING OF UNDERCARRIAGE	10-329
WORK EQUIPMENT.....	10-331
STRUCTURE OF WORK EQUIPMENT	10-331
FUNCTION OF WORK EQUIPMENT	10-332
WORK EQUIPMENT CLEARANCE ADJUSTMENT SHIM.....	10-333
BUCKET CLEARANCE ADJUSTMENT SHIM	10-334
CAB AND ITS ATTACHMENTS	10-335
ROPS CAB	10-335
CAB MOUNT	10-336
CAB TIPPING STOPPER	10-337
20 STANDARD VALUE TABLE	20-1
CONTENTS	20-2
ABBREVIATION LIST	20-3
STANDARD VALUE TABLE FOR ENGINE	20-8
STANDARD VALUE TABLE FOR ENGINE: PC240LC-11	20-8
STANDARD VALUE TABLE FOR MACHINE.....	20-12
STANDARD VALUE TABLE FOR MACHINE: PC240LC-11	20-12
MACHINE POSTURE AND PROCEDURE FOR MEASURING PERFORMANCE	20-25
STANDARD VALUE TABLE FOR ELECTRICAL	20-29
STANDARD VALUE TABLE FOR ELECTRICAL	20-29
30 TESTING AND ADJUSTING	30-1
CONTENTS	30-2
ABBREVIATION LIST	30-5
RELATED INFORMATION ON TESTING AND ADJUSTING	30-10
TOOLS FOR TESTING AND ADJUSTING.....	30-10