

Shop Manual

**HYDRAULIC
EXCAVATOR**

PC490HRD-11E0

SERIAL NUMBERS

PC490HRD-11E0 - K75230 and up

KOMATSU

00 INDEX AND FOREWORD

INDEX

00 INDEX AND FOREWORD	00-1
ABBREVIATION LIST	00-24
FOREWORD, SAFETY, BASIC INFORMATION	00-30
HOW TO READ THE SHOP MANUAL.....	00-30
SAFETY NOTICE FOR OPERATION.....	00-32
PRECAUTIONS TO PREVENT FIRE.....	00-40
ACTIONS IF FIRE OCCURS	00-42
PRECAUTIONS FOR DISPOSING OF WASTE MATERIALS	00-43
ACTIONS TAKEN TO MEET EXHAUST GAS REGULATIONS.....	00-44
METHOD FOR CHECKING ENGINE TYPE	00-45
PRECAUTIONS FOR DEF.....	00-47
STORE AdBlue/DEF	00-48
PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT	00-49
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS.....	00-52
PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT.....	00-59
PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT	00-61
PRECAUTIONS FOR HANDLING INTAKE SYSTEM EQUIPMENT	00-62
PRACTICAL USE OF KOMTRAX	00-63
DISCONNECT AND CONNECT PUSH-PULL TYPE COUPLER	00-64
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF CONNECTORS	00-68
METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR	00-72
METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR	00-73
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PULL ...	00-75
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PUSH ..	00-76
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH HOUSING TO ROTATE .	00-78
HOW TO READ ELECTRICAL WIRE CODE	00-79
EXPLANATION OF TERMS FOR MAINTENANCE STANDARD.....	00-83
STANDARD TIGHTENING TORQUE TABLE.....	00-86
CONVERSION TABLE	00-93
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
TABLE OF FUEL, COOLANT, AND LUBRICANTS	01-17
SPECIFICATIONS - PC490HRD-11E0.....	01-18
SPECIFICATION DRAWING.....	01-18
SPECIFICATIONS	01-22
WEIGHT TABLE	01-24
SPECIFICATIONS - PC490HRD-11E0 K100	01-26
SPECIFICATION DRAWING.....	01-26
WEIGHT TABLE	01-30
10 STRUCTURE AND FUNCTION	10-1
CONTENTS	10-2
ABBREVIATION LIST	10-7
UREA SCR SYSTEM.....	10-13
LAYOUT DRAWING OF UREA SCR SYSTEM	10-13
UREA SCR SYSTEM DIAGRAM	10-17
FUNCTION OF UREA SCR SYSTEM.....	10-18
COMPONENT PARTS OF UREA SCR SYSTEM.....	10-39
BOOT-UP SYSTEM	10-48
LAYOUT DRAWING OF BOOT-UP SYSTEM.....	10-48

SYSTEM OPERATING LAMP SYSTEM	10-50
FUNCTION OF SYSTEM OPERATING LAMP SYSTEM	10-51
OPERATION OF SYSTEM OPERATING LAMP SYSTEM	10-52
BATTERY DISCONNECT SWITCH	10-53
ENGINE SYSTEM	10-54
LAYOUT DRAWING OF ENGINE SYSTEM	10-54
ENGINE CONTROL SYSTEM	10-57
AUTO-DECELERATION SYSTEM	10-60
ENGINE AUTOMATIC WARM-UP SYSTEM	10-62
OVERHEAT PREVENTION SYSTEM	10-64
TURBOCHARGER PROTECTION SYSTEM	10-67
AUTOMATIC IDLE STOP SYSTEM	10-69
COMPONENT PARTS OF ENGINE SYSTEM	10-72
COOLING SYSTEM.....	10-88
LAYOUT DRAWING OF COOLING SYSTEM	10-88
FAN SPEED CONTROL SYSTEM OF HYDRAULIC FAN.....	10-91
ENGINE OUTPUT CONTROL SYSTEM OF HYDRAULIC FAN.....	10-93
FAN REVERSE ROTATION SYSTEM OF HYDRAULIC FAN.....	10-96
COMPONENT PARTS OF COOLING SYSTEM.....	10-97
CONTROL SYSTEM.....	10-111
LAYOUT DRAWING OF CONTROL SYSTEM	10-111
MACHINE MONITOR SYSTEM	10-114
KomVision SYSTEM	10-115
KOMTRAX SYSTEM.....	10-119
PPC LEVERS	10-120
AUTOMATIC GREASE SYSTEM.....	10-122
COMPONENT PARTS OF CONTROL SYSTEM.....	10-136
SENSOR.....	10-175
HYDRAULIC SYSTEM.....	10-178
LAYOUT DRAWING OF HYDRAULIC SYSTEM	10-178
CLSS	10-180
ENGINE AND PUMP COMBINED CONTROL SYSTEM.....	10-200
PUMP AND VALVE CONTROL SYSTEM	10-207
COMPONENT PARTS OF HYDRAULIC SYSTEM	10-210
HYDRAULIC SYSTEM - PC490HRD-11E0	10-300
LAYOUT DRAWING OF HYDRAULIC SYSTEM	10-300
COMPONENT PARTS OF HYDRAULIC SYSTEM	10-303
WORK EQUIPMENT SYSTEM	10-323
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM	10-323
STRUCTURE OF VALVE CONTROL	10-328
ONE-TOUCH POWER MAXIMIZING SYSTEM	10-329
MACHINE PUSH-UP SYSTEM.....	10-331
PPC LOCK SYSTEM	10-333
WORK EQUIPMENT AND TRAVEL AUTOMATIC LOCK SYSTEM	10-334
OIL FLOW ADJUSTER SYSTEM FOR ATTACHMENT.....	10-336
TOOL CONTROL SYSTEM	10-338
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM.....	10-340
WORK EQUIPMENT SYSTEM - PC490HRD-11E0	10-363
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM	10-363
SWING SYSTEM	10-367
LAYOUT DRAWING OF SWING SYSTEM	10-367
SWING CONTROL SYSTEM DIAGRAM	10-373
COMPONENT PARTS OF SWING SYSTEM.....	10-377
TRAVEL SYSTEM.....	10-392
LAYOUT DRAWING OF TRAVEL SYSTEM.....	10-392
TRAVEL CONTROL SYSTEM DIAGRAM.....	10-396
COMPONENT PARTS OF TRAVEL SYSTEM	10-398
UNDERCARRIAGE AND FRAME.....	10-420

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

<https://shopservicemanual.com/>

Service Manuals from 2\$