

Shop Manual

**HYDRAULIC
EXCAVATOR**

PC290LCi -11E0

SERIAL NUMBERS 35152 and up

NOTE:

This is an amended Japanese Shop Manual.

Sections which are to be removed or updated in the final EU version are identified as such with a comment under the title.

Please be aware of this when using the manual.

KOMATSU

00 INDEX AND FOREWORD

INDEX

00 INDEX AND FOREWORD	00-1
ABBREVIATION LIST	00-23
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
SPECIFICATIONS	01-3
SPECIFICATION DRAWING	01-3
WORKING RANGE DRAWINGS	01-5
SPECIFICATIONS	01-6
WEIGHT TABLE	01-9
TABLE OF FUEL, COOLANT, AND LUBRICANTS	01-11
10 STRUCTURE AND FUNCTION	10-1
CONTENTS	10-2
UREA SCR SYSTEM	10-6
LAYOUT DRAWING OF UREA SCR SYSTEM	10-7
UREA SCR SYSTEM DIAGRAM	10-12
FUNCTION OF UREA SCR SYSTEM	10-13
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	10-42
ENGINE SYSTEM	10-43
LAYOUT DRAWING OF ENGINE SYSTEM	10-43
ENGINE CONTROL SYSTEM	10-45
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
LAYOUT DRAWING OF CONTROL SYSTEM	10-78
KomVision SYSTEM	10-82
KOMTRAX SYSTEM.....	10-86
LAYOUT DRAWING OF CONTROL SYSTEM PARTS	10-87
HYDRAULIC SYSTEM.....	10-131
LAYOUT DRAWING OF HYDRAULIC SYSTEM	10-131
CLSS	10-137
ENGINE AND PUMP COMBINED CONTROL SYSTEM.....	10-154
PUMP AND VALVE CONTROL SYSTEM	10-160
COMPONENT PARTS OF HYDRAULIC SYSTEM	10-163
WORK EQUIPMENT SYSTEM	10-234
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM	10-234
STRUCTURE OF VALVE CONTROL.....	10-239
ONE-TOUCH POWER MAXIMIZING SYSTEM	10-241
PPC LOCK SYSTEM	10-243
WORK EQUIPMENT AND TRAVEL AUTOMATIC LOCK SYSTEM	10-244
OIL FLOW ADJUSTER SYSTEM FOR ATTACHMENT.....	10-246
TOOL CONTROL SYSTEM	10-248
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM.....	10-250
ICT SYSTEM	10-278
LAYOUT DRAWING OF ICT SYSTEM.....	10-278
ICT CONTROL SYSTEM DIAGRAM.....	10-282
BUCKET EDGE POSITION DETECTION SYSTEM.....	10-283
THE INTELLIGENT MACHINE CONTROL SYSTEM.....	10-285
CUSHION SYSTEM FOR ARM IN END.....	10-311
BOOM SECONDARY DRIVE SWITCH.....	10-313
COMPONENT PARTS OF ICT SYSTEM	10-314
SWING SYSTEM.....	10-342
LAYOUT DRAWING OF SWING SYSTEM	10-342
SWING CONTROL SYSTEM DIAGRAM	10-345
COMPONENT PARTS OF SWING SYSTEM.....	10-349
TRAVEL SYSTEM.....	10-363
LAYOUT DRAWING OF TRAVEL SYSTEM.....	10-363
TRAVEL CONTROL SYSTEM DIAGRAM.....	10-367
COMPONENT PARTS OF TRAVEL SYSTEM	10-369
UNDERCARRIAGE AND FRAME.....	10-390
LAYOUT DRAWING OF UNDERCARRIAGE	10-390
WORK EQUIPMENT.....	10-392
STRUCTURE OF WORK EQUIPMENT	10-392
FUNCTION OF WORK EQUIPMENT	10-393
WORK EQUIPMENT CLEARANCE ADJUSTMENT SHIM.....	10-394
BUCKET CLEARANCE ADJUSTMENT SHIM	10-395
CAB AND ITS ATTACHMENTS	10-396
ROPS CAB	10-396
CAB MOUNT	10-397
CAB TIPPING STOPPER	10-398
20 STANDARD VALUE TABLE	20-1
CONTENTS	20-2
STANDARD VALUE TABLE FOR ENGINE	20-3
STANDARD VALUE TABLE FOR ENGINE: PC290LCI-11E0.....	20-3
STANDARD VALUE TABLE FOR MACHINE.....	20-7
STANDARD VALUE TABLE FOR MACHINE: PC290LCI-11E0	20-7
MACHINE POSTURE AND PROCEDURE FOR MEASURING PERFORMANCE	20-30
30 TESTING AND ADJUSTING	30-1
CONTENTS	30-2

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

<https://shopservicemanual.com/>

Service Manuals from 2\$