

# Shop Manual

BULLDOZER

***D65EXi -18***  
***D65PXi -18***

SERIAL NUMBERS    D65EXi-90997    and up  
                                 D65PXi-90997

**KOMATSU**



---

# 00 INDEX AND FOREWORD

---

# INDEX

00 INDEX AND FOREWORD .....	00-1
ABBREVIATION LIST .....	00-23
FOREWORD, SAFETY, BASIC INFORMATION .....	00-29
HOW TO READ THE SHOP MANUAL.....	00-29
SAFETY NOTICE FOR OPERATION.....	00-31
PRECAUTIONS TO PREVENT FIRE.....	00-39
ACTIONS IF FIRE OCCURS .....	00-40
PRECAUTIONS FOR DISPOSING OF WASTE MATERIALS .....	00-40
ACTIONS TAKEN TO MEET EXHAUST GAS REGULATIONS.....	00-41
PRECAUTIONS FOR DEF.....	00-42
STORE AdBlue/DEF .....	00-43
PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT .....	00-44
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS.....	00-47
PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT.....	00-54
PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT .....	00-56
PRECAUTIONS FOR HANDLING INTAKE SYSTEM EQUIPMENT .....	00-57
PRACTICAL USE OF KOMTRAX .....	00-58
DISCONNECT AND CONNECT PUSH-PULL TYPE COUPLER .....	00-59
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF CONNECTORS .....	00-63
METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR .....	00-67
METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR .....	00-68
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PULL ...	00-70
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PUSH ..	00-71
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH HOUSING TO ROTATE .	00-73
HOW TO READ ELECTRICAL WIRE CODE .....	00-74
EXPLANATION OF TERMS FOR MAINTENANCE STANDARD.....	00-78
STANDARD TIGHTENING TORQUE TABLE.....	00-81
CONVERSION TABLE .....	00-88
01 SPECIFICATIONS .....	01-1
CONTENTS .....	01-2
ABBREVIATION LIST .....	01-3
SPECIFICATIONS .....	01-9
SPECIFICATION DRAWING .....	01-9
SPECIFICATIONS .....	01-13
WEIGHT TABLE .....	01-25
TABLE OF FUEL, COOLANT, AND LUBRICANTS .....	01-31
10 STRUCTURE AND FUNCTION .....	10-1
CONTENTS .....	10-2
ABBREVIATION LIST .....	10-6
UREA SCR SYSTEM.....	10-12
LAYOUT DRAWING OF UREA SCR SYSTEM .....	10-12
UREA SCR SYSTEM DIAGRAM .....	10-14
FUNCTION OF UREA SCR SYSTEM.....	10-15
COMPONENT PARTS OF UREA SCR SYSTEM.....	10-31
BOOT-UP SYSTEM .....	10-40
LAYOUT DRAWING OF BOOT-UP SYSTEM.....	10-40
SYSTEM OPERATING LAMP SYSTEM .....	10-42
BATTERY DISCONNECT SWITCH .....	10-44
ENGINE SYSTEM .....	10-46
LAYOUT DRAWING OF ENGINE SYSTEM.....	10-46
ENGINE CONTROL SYSTEM .....	10-48
AUTOMATIC IDLE STOP SYSTEM .....	10-53
COMPONENT PARTS OF ENGINE SYSTEM .....	10-56
COOLING SYSTEM.....	10-76
LAYOUT DRAWING OF COOLING SYSTEM .....	10-76

COOLING FAN CONTROL SYSTEM.....	10-78
COMPONENT PARTS OF COOLING SYSTEM.....	10-81
CONTROL SYSTEM.....	10-98
LAYOUT DRAWING OF CONTROL SYSTEM .....	10-98
MACHINE MONITOR SYSTEM .....	10-99
KOMTRAX SYSTEM.....	10-100
COMPONENT PARTS OF CONTROL SYSTEM.....	10-101
HYDRAULIC SYSTEM.....	10-130
LAYOUT DRAWING OF HYDRAULIC SYSTEM .....	10-130
CLSS .....	10-131
COMPONENT PARTS OF HYDRAULIC SYSTEM .....	10-134
POWER TRAIN SYSTEM .....	10-185
LAYOUT DRAWING OF POWER TRAIN SYSTEM.....	10-185
OPERATION OF POWER TRAIN SYSTEM.....	10-187
TRANSMISSION, STEERING, AND BRAKE CONTROL .....	10-188
PALM COMMAND CONTROL SYSTEM.....	10-190
HSS SYSTEM.....	10-194
CENTRALIZED PRESSURE PICKUP PORT.....	10-197
COMPONENT PARTS OF POWER TRAIN SYSTEM.....	10-198
WORK EQUIPMENT SYSTEM .....	10-269
WORK EQUIPMENT CONTROL .....	10-269
LAYOUT OF TILT DOZER AND POWER TILT PITCH DOZER SERIES .....	10-272
LAYOUT OF POWER ANGLE POWER TILT DOZER SERIES .....	10-273
LAYOUT OF FIXED MULTI-SHANK RIPPER.....	10-274
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM.....	10-275
ICT SYSTEM .....	10-304
LAYOUT DRAWING OF ICT SYSTEM.....	10-304
ICT CONTROL SYSTEM DIAGRAM.....	10-307
BLADE CONTROL SYSTEM .....	10-309
SMOOTH START SYSTEM .....	10-315
SLIP CONTROL SYSTEM .....	10-317
ASSIST CONTROL SYSTEM .....	10-319
COMPONENT PARTS OF ICT SYSTEM .....	10-321
UNDERCARRIAGE AND FRAME.....	10-352
MAIN FRAME .....	10-352
SUSPENSION .....	10-354
TRACK FRAME AND IDLER CUSHION .....	10-357
WORK EQUIPMENT.....	10-360
STRUCTURE OF FRONT WORK EQUIPMENT (FOR TILT DOZER AND POWER TILT PITCH DOZER SERIES).....	10-360
STRUCTURE OF FRONT WORK EQUIPMENT (FOR POWER ANGLE POWER TILT DOZER SERIES).....	10-361
STRUCTURE OF FIXED MULTI-SHANK RIPPER.....	10-362
CAB AND ITS ATTACHMENTS .....	10-363
ROPS CAB .....	10-363
CAB MOUNT .....	10-365
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: D65EXI-18 .....	20-9
STANDARD VALUE TABLE FOR ENGINE: D65PXI-18 .....	20-14
STANDARD VALUE TABLE FOR MACHINE.....	20-19
STANDARD VALUE TABLE FOR MACHINE: D65EXI-18 .....	20-19
STANDARD VALUE TABLE FOR MACHINE: D65PXI-18 .....	20-36
MACHINE POSTURE AND PROCEDURE FOR MEASURING PERFORMANCE .....	20-54
STANDARD VALUE TABLE FOR ELECTRICAL .....	20-57
STANDARD VALUE TABLE FOR ELECTRICITY .....	20-57

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

<https://shopservicemanual.com/>

Service Manuals from 2\$