

# Shop Manual

DUMP TRUCK

***HD1500-8***

SERIAL NUMBERS 81001 and up

**KOMATSU**



---

# 00 INDEX AND FOREWORD

---

# INDEX

00 INDEX AND FOREWORD ----- 00-1

ABBREVIATIONS ----- 00-22

FOREWORD, SAFETY, BASIC INFORMATION ----- 00-27

    HOW TO READ THE SHOP MANUAL ----- 00-27

    SAFETY NOTICE FOR OPERATION ----- 00-29

    PRECAUTIONS TO PREVENT FIRE ----- 00-38

    ACTIONS IF FIRE OCCURS ----- 00-39

    PRECAUTIONS FOR REMOVAL OF DANGEROUS MATERIALS ----- 00-39

    STEPS NECESSARY TO MEET EXHAUST GAS REGULATIONS ----- 00-40

    PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT ----- 00-43

    PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS ----- 00-45

    PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT ----- 00-51

    PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT ----- 00-53

    PRECAUTIONS FOR HANDLING INTAKE SYSTEM EQUIPMENT ----- 00-54

    PRACTICAL USE OF KOMTRAX ----- 00-55

    DISCONNECT AND CONNECT PUSH-PULL TYPE COUPLER ----- 00-56

    PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF CONNECTORS ----- 00-60

    METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR ----- 00-64

    METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR ----- 00-65

    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 ----- 00-76

    CONVERSION TABLE ----- 00-83

01 SPECIFICATIONS ----- 01-1

ABBREVIATIONS ----- 01-3

SPECIFICATIONS ----- 01-8

    SPECIFICATION DRAWING ----- 01-8

    SPECIFICATIONS ----- 01-12

    WEIGHT TABLE ----- 01-24

    FUEL, COOLANT, AND LUBRICATING OIL ----- 01-26

10 STRUCTURE AND FUNCTION ----- 10-1

ABBREVIATIONS ----- 10-7

BOOT-UP SYSTEM ----- 10-12

    LAYOUT DRAWING OF BOOT-UP SYSTEM ----- 10-12

    SYSTEM OPERATING LAMP SYSTEM ----- 10-15

    BATTERY DISCONNECT SWITCH ----- 10-16

    STARTING MOTOR DISCONNECT SWITCH ----- 10-18

    ENGINE SHUTDOWN SECONDARY SWITCH ----- 10-19

    EXTERNAL POWER SUPPLY ENGINE PREHEATER ----- 10-21

ENGINE SYSTEM ----- 10-24

    LAYOUT DRAWING OF ENGINE SYSTEM ----- 10-24

    ENGINE CONTROL SYSTEM ----- 10-26

    COMPONENT PARTS OF ENGINE SYSTEM ----- 10-30

COOLING SYSTEM ----- 10-31

    LAYOUT DRAWING OF COOLING SYSTEM ----- 10-31

    FAN SPEED CONTROL SYSTEM OF FAN CLUTCH ----- 10-33

COMPONENT PARTS OF COOLING SYSTEM-----	10-34
CONTROL SYSTEM -----	10-62
LAYOUT DRAWING OF CONTROL SYSTEM -----	10-62
LAYOUT DRAWING OF CONTROL SYSTEM (MACHINE WITH MOBILE COMMUNICATION TERMINAL) -	10-65
RETARDER AND HOIST CONTROL SYSTEM -----	10-67
MACHINE MONITOR SYSTEM -----	10-69
REARVIEW MONITOR SYSTEM -----	10-71
KOMTRAX Plus SYSTEM -----	10-72
PAYLOAD METER SYSTEM -----	10-79
COMPONENT PARTS OF CONTROL SYSTEM -----	10-90
HYDRAULIC SYSTEM -----	10-137
LAYOUT DRAWING OF HYDRAULIC SYSTEM -----	10-137
COMPONENT PARTS OF HYDRAULIC SYSTEM -----	10-138
POWER TRAIN SYSTEM -----	10-173
LAYOUT DRAWING OF POWER TRAIN SYSTEM -----	10-173
TRANSMISSION CONTROL SYSTEM -----	10-176
GEAR SHIFT CONTROL SYSTEM-----	10-184
DIRECTION CONTROL SYSTEM -----	10-187
KOMATSU TRACTION CONTROL SYSTEM (KTCS)-----	10-188
TRAVEL SPEED LIMITATION SYSTEM -----	10-190
REAR AXLE OIL FILTRATION SYSTEM-----	10-194
COMPONENT PARTS OF POWER TRAIN SYSTEM-----	10-196
WORK EQUIPMENT SYSTEM -----	10-252
WORK EQUIPMENT CONTROL -----	10-252
HOIST CONTROL-----	10-253
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM -----	10-255
STEERING SYSTEM -----	10-262
LAYOUT DRAWING OF STEERING SYSTEM-----	10-262
FUNCTION OF STEERING SYSTEM -----	10-263
STEERING COLUMN -----	10-264
STEERING CONTROL LINKAGE-----	10-265
COMPONENT PARTS OF STEERING SYSTEM -----	10-266
BRAKE SYSTEM -----	10-278
LAYOUT DRAWING OF BRAKE SYSTEM -----	10-278
RETARDER CONTROL-----	10-281
ARSC SYSTEM -----	10-283
COMPONENT PARTS OF BRAKE SYSTEM-----	10-284
AUTO-GREASING SYSTEM-----	10-313
LAYOUT DRAWING OF AUTO-GREASING SYSTEM -----	10-313
AUTO-GREASING SYSTEM DIAGRAM -----	10-316
FUNCTION OF AUTO-GREASING SYSTEM -----	10-317
GREASE REFILL AUTOMATIC STOP SYSTEM -----	10-318
COMPONENT PARTS OF AUTO-GREASING SYSTEM-----	10-319
SERVICE CENTER -----	10-323
LAYOUT DRAWING OF SERVICE CENTER-----	10-323
FUNCTION OF SERVICE CENTER -----	10-323
UNDERCARRIAGE AND FRAME -----	10-324
REAR AXLE SUPPORT -----	10-324
SUSPENSION -----	10-325
FRONT SUSPENSION -----	10-326

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

<https://shopservicemanual.com/>

Service Manuals from 2\$