

# Shop Manual

WHEEL LOADER **WA475-10**  
**WA475-10E0**

SERIAL NUMBERS    H47051 and up  
                                 120001 and up



---

# 00 INDEX AND FOREWORD

---

# INDEX

00 INDEX AND FOREWORD .....	00-1
FOREWORD, SAFETY, BASIC INFORMATION .....	00-27
HOW TO READ THE SHOP MANUAL.....	00-27
SAFETY NOTICE FOR OPERATION.....	00-29
PRECAUTIONS TO PREVENT FIRE.....	00-37
ACTIONS IF FIRE OCCURS .....	00-39
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
ABBREVIATION LIST .....	00-93
01 SPECIFICATIONS .....	01-1
CONTENTS .....	01-2
SPECIFICATIONS .....	01-3
SPECIFICATION DRAWING .....	01-3
SPECIFICATIONS .....	01-7
WEIGHT TABLE .....	01-17
FUEL, COOLANT, LUBRICANTS (FOR NORTH AMERICA) .....	01-21
FUEL, COOLANT, LUBRICANTS (FOR EUROPEAN UNION).....	01-23
10 STRUCTURE AND FUNCTION .....	10-1
CONTENTS .....	10-2
UREA SCR SYSTEM.....	10-7
LAYOUT DRAWING OF UREA SCR SYSTEM .....	10-7
UREA SCR SYSTEM DIAGRAM .....	10-9
FUNCTION OF UREA SCR SYSTEM.....	10-10
COMPONENT PARTS OF UREA SCR SYSTEM.....	10-26
BOOT-UP SYSTEM .....	10-35
LAYOUT DRAWING OF BOOT-UP SYSTEM.....	10-35
SYSTEM OPERATING LAMP SYSTEM .....	10-37
BATTERY DISCONNECT SWITCH .....	10-39
PREHEATING SYSTEM .....	10-40
ENGINE SYSTEM .....	10-42
LAYOUT DRAWING OF ENGINE SYSTEM.....	10-42
ENGINE CONTROL SYSTEM .....	10-44
AUTOMATIC IDLE STOP SYSTEM .....	10-48
COMPONENT PARTS OF ENGINE SYSTEM .....	10-49
COOLING SYSTEM.....	10-66
LAYOUT DRAWING OF COOLING SYSTEM .....	10-66

COOLING FAN CONTROL SYSTEM.....	10-68
COMPONENT PARTS OF COOLING SYSTEM.....	10-73
CONTROL SYSTEM.....	10-88
LAYOUT DRAWING OF CONTROL SYSTEM PARTS.....	10-88
MACHINE MONITOR SYSTEM.....	10-90
REARVIEW MONITOR SYSTEM.....	10-92
KOMTRAX SYSTEM.....	10-93
LOAD METER SYSTEM.....	10-94
COMPONENT PARTS OF CONTROL SYSTEM.....	10-99
HYDRAULIC SYSTEM.....	10-152
LAYOUT DRAWING OF HYDRAULIC SYSTEM.....	10-152
CLSS.....	10-153
WORK EQUIPMENT PUMP AND STEERING PUMP CONTROL SYSTEM.....	10-157
COMPONENT PARTS OF HYDRAULIC SYSTEM.....	10-158
TOTAL CONTROL SYSTEM.....	10-233
SYSTEM DIAGRAM OF TOTAL CONTROL SYSTEM.....	10-233
INDEPENDENT WORK EQUIPMENT CONTROL FUNCTION.....	10-234
POWER MODE SELECTOR FUNCTION.....	10-236
OVERHEAT PREVENTION FUNCTION.....	10-237
OUTPUT LIMITATION FUNCTION FOR LOW TEMPERATURE.....	10-238
WORK EQUIPMENT SPEED LEVEL.....	10-239
POWER TRAIN SYSTEM.....	10-240
LAYOUT DRAWING OF POWER TRAIN SYSTEM.....	10-240
OPERATION OF POWER TRAIN SYSTEM.....	10-242
HST CHARGE SYSTEM.....	10-243
PUMP MOTOR CONTROL SYSTEM.....	10-244
TRANSMISSION GEAR SHIFT CONTROL SYSTEM.....	10-246
TRANSMISSION PROTECTION FUNCTION.....	10-248
DIRECTIONAL SELECTOR SWITCH CONTROL FUNCTION.....	10-249
TRACTION CONTROL SYSTEM.....	10-251
COMPONENT PARTS OF POWER TRAIN SYSTEM.....	10-254
WORK EQUIPMENT SYSTEM.....	10-309
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM.....	10-309
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM (TOOL LINKAGE).....	10-311
WORK EQUIPMENT CONTROL SYSTEM.....	10-313
WORK EQUIPMENT NEUTRAL LOCK SYSTEM.....	10-319
REMOTE POSITIONER SYSTEM.....	10-321
AUTOMATIC BUCKET SHAKE SYSTEM.....	10-326
BUCKET POSITIONER AND BOOM POSITIONER.....	10-327
AUTO-DIGGING SYSTEM.....	10-329
ECSS.....	10-332
WORK EQUIPMENT SYSTEM.....	10-334
STEERING SYSTEM.....	10-344
LAYOUT DRAWING OF STEERING SYSTEM.....	10-344
SECONDARY STEERING SYSTEM.....	10-347
AJSS.....	10-349
STEERING COLUMN.....	10-355
STEERING SYSTEM.....	10-356
BRAKE SYSTEM.....	10-380
LAYOUT DRAWING OF BRAKE SYSTEM.....	10-380
PARKING BRAKE CONTROL SYSTEM.....	10-384
BRAKE COOLING CONTROL SYSTEM.....	10-386
COMPONENT PARTS OF BRAKE SYSTEM.....	10-387
AUTO-GREASING SYSTEM.....	10-410
LAYOUT DRAWING OF AUTOMATIC GREASE SYSTEM.....	10-410
LAYOUT DRAWING OF AUTOMATIC GREASE SYSTEM (TOOL LINKAGE).....	10-411
SPECIFICATIONS OF AUTOMATIC GREASE SYSTEM.....	10-412
SPECIFICATIONS OF AUTOMATIC GREASE SYSTEM (TOOL LINKAGE).....	10-414

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

<https://shopservicemanual.com/>

Service Manuals from 2\$