

# Shop Manual

WHEEL LOADER

WA320-7

SERIAL NUMBERS

H01051 and up  
80001 and up



# SHOP MANUAL

# WHEEL LOADER

## WA320-7

Model	Serial Number
-------	---------------

WA320-7	H01051 and up 80001 and up
---------	-------------------------------

---

## 00 Index and foreword

---

---

**Index** (ALL-0310-001-A-00-A)

00 Index and foreword .....	00-1
Index .....	00-2
Foreword, safety and general information .....	00-17
Important safety notice .....	00-17
How to read the shop manual .....	00-24
Explanation of terms for maintenance standard .....	00-26
Handling equipment of fuel system devices .....	00-28
Handling of intake system parts .....	00-29
Handling of hydraulic equipment .....	00-30
Method of disconnecting and connecting of push-pull type coupler .....	00-32
Handling of electrical equipment .....	00-35
How to read electric wire code .....	00-43
Precautions when performing operation .....	00-46
Practical use of KOMTRAX .....	00-51
Standard tightening torque table .....	00-52
List of abbreviation .....	00-58
Conversion table .....	00-63
01 Specification .....	01-1
Table of contents .....	01-2
Specifications .....	01-3
Specification drawing .....	01-3
Specifications .....	01-7
Weight table .....	01-17
Table of fuel, coolant, and lubricants .....	01-21
10 Structure and function .....	10-1
Table of contents .....	10-2
Engine and cooling system .....	10-4
Engine related parts .....	10-4
KVTG .....	10-6
EGR system piping drawing .....	10-13
EGR system circuit diagram .....	10-15
EGR valve .....	10-17
EGR cooler .....	10-19
KCCV layout drawing .....	10-20
KCCV ventilator .....	10-22
KDPF .....	10-24
Cooling system .....	10-28
Cooling fan motor .....	10-30
Power train .....	10-40
Power train system .....	10-40
Layout of power train parts .....	10-42
Damper .....	10-43
HST pump .....	10-44
HST motor1 .....	10-57
HST motor2 .....	10-59
Transfer .....	10-64
Clutch solenoid valve .....	10-71
Drive shaft .....	10-73
Axle .....	10-74
Differential .....	10-76
Torque proportional differential .....	10-80
Limited slip differential .....	10-82
Final drive .....	10-87
Steering system .....	10-89
Layout of steering devices .....	10-89
Steering column .....	10-90
Priority valve .....	10-91
Cushion valve .....	10-95

Emergency steering valve.....	10-96
Orbitrol valve .....	10-99
Brake system .....	10-105
Layout of brake parts.....	10-105
Brake accumulator charge valve.....	10-107
Brake valve .....	10-112
Brake accumulator .....	10-116
Slack adjuster.....	10-117
Brake .....	10-119
Parking brake control .....	10-122
Parking brake .....	10-123
Parking brake solenoid valve .....	10-124
Undercarriage and frame.....	10-126
Axle mount .....	10-126
Center hinge pin .....	10-128
Tire .....	10-129
Hydraulic system .....	10-131
Hydraulic component layout.....	10-131
Work equipment control.....	10-133
Hydraulic tank.....	10-134
Double type gear pump .....	10-137
Steering and work equipment pump.....	10-138
Control valve .....	10-150
CLSS.....	10-160
Hydraulic circuit diagram and names of valves.....	10-164
Self-pressure reducing valve.....	10-177
Work equipment PPC valve .....	10-182
Work equipment lock solenoid valve .....	10-190
PPC circuit accumulator .....	10-191
ECSS accumulator.....	10-192
Work equipment .....	10-193
Work equipment linkage .....	10-193
Bucket .....	10-194
Cab and its attachments.....	10-195
ROPS cab .....	10-195
Cab mount .....	10-197
Electrical system .....	10-198
Engine control system .....	10-198
Preheating system .....	10-201
Engine output limit function .....	10-203
Automatic warm-up function.....	10-204
Parking brake control system.....	10-205
System operating lamp function.....	10-209
Battery disconnect switch function .....	10-210
HST controller system.....	10-212
Machine monitor system .....	10-252
Rearview monitor system.....	10-273
KOMTRAX system.....	10-276
System component parts .....	10-279
Sensor .....	10-302
Central lubrication system (CLS).....	10-323
20 Standard value tables.....	20-1
Table of contents .....	20-2
Standard service value table .....	20-3
Standard value table for engine .....	20-3
Standard value table for machine .....	20-5
Standard value table for electrical system.....	20-17
30 Testing and adjusting.....	30-1
Table of contents .....	30-2
Related information on testing and adjusting .....	30-4

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

<https://shopservicemanual.com/>

Service Manuals from 2\$