

# Shop Manual

WHEEL LOADER

**WA900-8R**

SERIAL NUMBERS 95001 and up

**KOMATSU**



---

# 00 Index and Foreword

---

# Index

00 Index and Foreword .....	00-1
Foreword, Safety, Basic Information .....	00-21
How to Read the Shop Manual .....	00-21
Safety Notice for Operation .....	00-23
Precautions to Prevent Fire .....	00-31
Procedures If Fire Occurs .....	00-33
Precautions When You Dispose of Waste Materials .....	00-34
Precautions When You Handle Hydraulic Equipment .....	00-35
Precautions When You Disconnect and Connect Pipings .....	00-38
Precautions When You Handle Electrical Equipment .....	00-45
Precautions When You Handle Fuel System Equipment .....	00-47
Precautions When You Handle Intake System Equipment .....	00-48
Practical Use of KOMTRAX .....	00-49
Disconnect and Connect Push-Pull Type Coupler .....	00-50
Precautions for Disconnection and Connection of Connectors .....	00-54
How to Disconnect and Connect Deutsch Connector .....	00-58
How to Disconnect and Connect Slide Lock Type Connector .....	00-59
How to Disconnect and Connect Connector with Lock to Pull .....	00-61
How to Disconnect and Connect Connector with Lock to Push .....	00-62
How to Disconnect and Connect Connector with Housing to Rotate .....	00-64
Standard Tightening Torque Table .....	00-65
Conversion Table .....	00-72
Abbreviation List .....	00-77
01 Specifications .....	01-1
Table of Contents .....	01-2
Specifications .....	01-3
Specification Drawing .....	01-3
Specifications .....	01-5
Weight Table .....	01-10
Fuel, Coolant, Lubricant .....	01-12
10 Structure and Function .....	10-1
Table of Contents .....	10-2
Boot-up System .....	10-7
Layout Drawing of Boot-up System .....	10-7
Pre-lubrication System .....	10-9
System Operating Lamp System .....	10-13
Battery Disconnect Switch .....	10-14
Starting Motor Disconnect Switch .....	10-15
Preheating System .....	10-16
Engine Shutdown Secondary Switch .....	10-18
Emergency Engine Stop Switch .....	10-19
External Power Supply Engine Preheater .....	10-20
Engine System .....	10-21
Layout Drawing of Engine System .....	10-21
Engine Control System .....	10-23
Engine Power Mode Selector System .....	10-26
RPM Set .....	10-27
Component Parts of Engine System .....	10-29
Cooling System .....	10-35
Layout Drawing of Cooling System .....	10-35
Cooling Fan Control System .....	10-38
Component Parts of Cooling System .....	10-42
Control System .....	10-57
Layout Drawing of Control System .....	10-57
Machine Monitor System .....	10-59
Rearview Monitor System .....	10-61

KOMTRAX Plus System .....	10-62
Load Meter System .....	10-64
Machine Lock-out System .....	10-70
Component Parts of Control System .....	10-72
Hydraulic System .....	10-132
Layout Drawing of Hydraulic System .....	10-132
CLSS .....	10-133
Work Equipment Pump Control System .....	10-136
Steering Pump Control System .....	10-138
Component Parts of Hydraulic System .....	10-139
Power Train System .....	10-220
Layout Drawing of Power Train System .....	10-220
Transmission Control System .....	10-224
Transmission Gear Shift Control System .....	10-226
Transmission Protection Function .....	10-231
Tire Slip Control System .....	10-235
Component Parts of Power Train System .....	10-237
Work Equipment System .....	10-295
Layout Drawing of Work Equipment System .....	10-295
Work Equipment System Diagram .....	10-297
Work Equipment Control System .....	10-299
Work Equipment Neutral Lock System .....	10-306
Remote Positioner System .....	10-308
Bucket Positioner and Boom Positioner .....	10-313
Auto-Digging System .....	10-314
Semi-Auto Approach System .....	10-316
Semi-Auto Dump System .....	10-317
ECSS .....	10-319
Wall Digging Prevention Control System .....	10-321
Component Parts of Work Equipment System .....	10-323
Steering System .....	10-329
Layout Drawing of Steering System .....	10-329
Secondary Steering System .....	10-330
AJSS .....	10-331
Steering Lock System .....	10-338
Component Parts of Steering System .....	10-339
Brake System .....	10-367
Layout Drawing of Brake System .....	10-367
Parking Brake Control System .....	10-370
Component Parts of Brake System .....	10-372
Auto-Greasing System .....	10-392
Layout Drawing of Auto-Greasing System .....	10-392
Auto-Greasing System Diagram .....	10-395
Specifications of Auto-Greasing System .....	10-396
Function of Auto-Greasing System .....	10-397
Auto-Greasing System .....	10-398
Lifting System .....	10-403
Power Ladder System .....	10-403
Power Ladder System .....	10-407
Undercarriage and Frame .....	10-412
Frame, Axle Mount and Hinge Pin .....	10-412
Structure of Lubrication System for Undercarriage .....	10-415
Service Center .....	10-416
Tires .....	10-420
Work Equipment .....	10-421
Structure of Work Equipment .....	10-421
Structure of Bucket .....	10-422
Structure of Lubrication System for Work Equipment .....	10-423

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

<https://shopservicemanual.com/>

Service Manuals from 2\$