

Shop Manual

WHEEL LOADER

GALEO

WA500-6

SERIAL NUMBERS 55001 and up

ecot3

KOMATSU

WHEEL LOADER

WA500-6

Machine model Serial number

WA500-6 55001 and up

00 Index and foreword

Index

Composition of shop manual.....	2
Table of contents	4

Composition of shop manual

The contents of this shop manual are shown together with Form No. in a list.

Note 1: Always keep the latest version of this manual in accordance with this list and utilize accordingly.

The marks shown to the right of Form No. denote the following:

○: New issue (to be filed additionally) ●: Revision (to be replaced for each Form No.)

Note 2: This shop manual can be supplied for each Form No.

Note 3: To file this shop manual in the special binder for management, handle it as follows:

- Place a divider on the top of each section in the file after matching the Tub No. with No. indicated next to each Section Name shown in the table below:
- File overview and other materials in sections in the order shown below and utilize them accordingly.

Section Title	Form Number
Shop Manual, contents binder, binder label and tabs	SEN00236-05
00 Index and foreword	SEN00575-05
Index	SEN00701-05 ●
Foreword and general information	SEN00702-02 ●
01 Specification	SEN00576-01
Specification and technical data	SEN00703-01 ●
10 Structure, function and maintenance standard	SEN00577-01
Engine and cooling system	SEN00704-00
Power train, Part 1	SEN00705-01 ●
Power train, Part 2	SEN00864-01 ●
Steering system	SEN00706-01 ●
Brake system	SEN00707-01 ●
Undercarriage and frame	SEN00708-01 ●
Hydraulic system, Part 1	SEN00709-01 ●
Hydraulic system, Part 2	SEN00875-01 ●
Work equipment	SEN00710-01 ●
Cab and its attachments	SEN00711-01 ●
Electrical system, Part 1	SEN00712-01 ●
Electrical system, Part 2	SEN00713-01 ●
Electrical system, Part 3	SEN00874-01 ●
20 Standard value table	SEN00578-02
Standard service value table	SEN00724-02
30 Testing and adjusting	SEN00579-02
Testing and adjusting, Part 1	SEN00725-02
Testing and adjusting, Part 2	SEN00726-02
Testing and adjusting, Part 3	SEN00727-01
Testing and adjusting, Part 4	SEN00728-01
40 Troubleshooting	SEN00580-01
General information on troubleshooting	SEN00729-00
Troubleshooting by failure code (Display of code), Part 1	SEN00730-01

Troubleshooting by failure code (Display of code), Part 2	SEN00731-01
Troubleshooting by failure code (Display of code), Part 3	SEN00732-01
Troubleshooting by failure code (Display of code), Part 4	SEN00733-01
Troubleshooting by failure code (Display of code), Part 5	SEN00734-01
Troubleshooting by failure code (Display of code), Part 6	SEN00735-01
Troubleshooting by failure code (Display of code), Part 7	SEN00736-01
Troubleshooting by failure code (Display of code), Part 8	SEN00737-01
Troubleshooting by failure code (Display of code), Part 9	SEN00738-01
Troubleshooting by failure code (Display of code), Part 10	SEN00739-01
Troubleshooting of electrical system (E-mode)	SEN00740-01
Troubleshooting of hydraulic and mechanical system (H-mode)	SEN00741-00
Troubleshooting of engine (S-mode)	SEN00742-01
50 Disassembly and assembly	SEN00581-00
General information on disassembly and assembly	SEN02022-00
Engine and cooling system	SEN02023-00
Engine (SAA6D140E-5)	SEN02024-00
Power train, Part 1	SEN02025-00
Power train, Part 2	SEN02026-00
Power train, Part 3	SEN02027-00
Brake system	SEN02028-00
Undercarriage and frame	SEN02029-00
Hydraulic system	SEN02030-00
Work equipment	SEN02031-00
Cab and its attachments	SEN02032-00
Electrical system	SEN02033-00
90 Diagrams and drawings	SEN00582-01
Hydraulic diagrams and drawings	SEN00714-01 ●
Electrical diagrams and drawings	SEN00715-00

Table of contents

00 Index and foreword	
Index	SEN00701-05
Composition of shop manual	2
Table of contents.....	4
Foreword and general information	SEN00702-02
Safety notice	2
How to read the shop manual	7
Explanation of terms for maintenance standard	9
Handling of electric equipment and hydraulic component	11
Handling of connectors newly used for engines	20
How to read electric wire code.....	23
Precautions when carrying out operation	26
Method of disassembling and connecting push-pull type coupler	29
Standard tightening torque table.....	32
Conversion table	36
01 Specification	
Specification and technical data	SEN00703-01
Specification and technical data	2
Specification dimension drawing.....	2
Specifications	3
Weight table	6
Table of fuel, coolant and lubricants	8
10 Structure, function and maintenance standard	
Engine and cooling system	SEN00704-00
Engine and cooling system	2
Cooling system	2
Engine mount and transmission mount	5
Power train, Part 1	SEN00705-01
Power train, Part 1.....	3
Power train.....	3
Power train system diagram	4
Joint	6
Drive shaft.....	7
Power train piping diagram	8
Torque converter.....	10
Torque converter regulator valve	28
Transmission.....	30
Transfer.....	50
Transmission control valve	52
ECMV	56
Main relief valve and torque converter relief valve	63
Lubrication relief valve	65
Power train, Part 2	SEN00864-01
Power train, Part 2.....	2
Torque converter oil cooler	2
Torque converter oil filter	3
Center support.....	6
Axle.....	8
Differential.....	10
Limited slip differential	19
Final drive	24

Steering system	SEN00706-01
Steering system.....	2
Steering piping diagram.....	2
Steering column.....	3
Steering control valve.....	4
Steering valve.....	15
Stop valve.....	19
Joystick steering lever linkage (if equipped).....	20
Steering cylinder.....	21
Emergency steering piping diagram (if equipped).....	22
Diverter valve.....	23
Brake system	SEN00707-01
Brake system.....	2
Brake piping diagram.....	2
Brake valve.....	4
Slack adjuster.....	9
Accumulator charge valve.....	12
PPC relief valve.....	16
Accumulator (for brake).....	18
Brake.....	20
Parking brake control.....	23
Parking brake.....	24
Parking brake solenoid valve.....	26
Emergency parking brake release valve.....	28
Undercarriage and frame	SEN00708-01
Undercarriage and frame.....	2
Axle mount.....	2
Center hinge pin.....	7
Hydraulic system, Part 1	SEN00709-01
Hydraulic system, Part 1.....	2
Hydraulic piping diagram.....	2
Work equipment control lever linkage.....	4
Hydraulic tank.....	5
Cooling fan motor.....	7
Cooling fan pump.....	14
Steering pump.....	21
Work equipment hydraulic pump.....	32
Hydraulic system, Part 2	SEN00875-01
Hydraulic system, Part 2.....	2
Control valve.....	2
CLSS.....	16
Each function and operation of each valve.....	21
Accumulator (for PPC circuit).....	32
Work equipment electric lever.....	33
Work equipment	SEN00710-01
Work equipment.....	2
Work equipment linkage.....	2
Bucket.....	6
Bucket positioner and boom kick-out.....	8
Work equipment lubrication.....	9
Cab and its attachments	SEN00711-01
Cab and its attachments.....	2
ROPS cab.....	2
Air conditioner.....	4
Electrical system, Part 1	SEN00712-01
Electrical system, Part 1.....	2

Machine monitor system.....	2
Machine monitor	10
Electrical system, Part 2	SEN00713-01
Electrical system, Part 2.....	2
Work equipment control system	2
Transmission controller system	36
Electrical system, Part 3	SEN00874-01
Electrical system, Part 3.....	2
Electric transmission control	2
Engine starting circuit	6
Engine stopping circuit.....	8
Preheating circuit.....	9
Parking brake circuit	11
Backup and stop lamp circuits	16
Small lamp and head lamp circuits	18
Working lamp circuit	19
Horn circuit.....	20
Wiper and window washer circuits.....	21
Sensor	24
KOMTRAX terminal system (if equipped).....	42
20 Standard value table	
Standard service value table	SEN00724-02
Standard service value table	2
Standard service value table for engine.....	2
Standard service value table for chassis	3
30 Testing and adjusting	
Testing and adjusting, Part 1	SEN00725-02
Testing and adjusting, Part 1	3
Tools for testing, adjusting, and troubleshooting.....	3
Measuring engine speed	6
Measuring exhaust gas color.....	8
Measuring exhaust temperature	10
Adjusting valve clearance	12
Testing compression pressure	13
Measuring blow-by pressure.....	15
Measuring engine oil pressure.....	16
Measuring intake air (boost) pressure	17
Handling fuel system equipment.....	19
Releasing residual pressure in fuel system	19
Testing fuel pressure.....	20
Testing return rate and leakage	21
Bleeding air from fuel circuit	24
Testing leakage in fuel system.....	26
Handling reduced cylinder mode operation	27
Handling no injection cranking operation.....	27
Handling controller voltage circuit.....	28
Testing and adjusting alternator belt tension	29
Testing and adjusting air conditioner compressor belt tension	30
Adjusting transmission speed sensor	31
Measuring directional lever (Steering wheel specification)	33
Testing and adjusting power train oil pressure.....	34
Flushing procedure for torque converter and transmission hydraulic circuit.....	47
Method of moving machine when transmission valve is broken.....	50

Testing and adjusting, Part 2	SEN00726-02	
Testing and adjusting, Part 2		3
Testing and adjusting steering stop valve		3
Testing and adjusting steering wheel		5
Testing steering oil pressure		7
Bleeding air from steering cylinder circuit		10
Testing hydraulic drive fan		11
Bleeding air from hydraulic drive fan circuit		14
Measuring brake pedal		16
Measuring brake performance		17
Testing and adjusting accumulator charge pressure		18
Testing wheel brake oil pressure		20
Measuring wear of wheel brake disc		22
Bleeding air from brake circuit		23
Releasing residual pressure in brake accumulator circuit		25
Testing parking brake performance		26
Measuring parking brake oil pressure		27
Testing wear of parking brake disc		30
Method of releasing parking brake manually		31
Measuring and adjusting work equipment control lever		32
Testing and adjusting work equipment PPC oil pressure		33
Measuring work equipment oil pressure		35
Bleeding air from work equipment circuit		41
Releasing residual pressure in work equipment circuit		42
Method of moving machine when removing operator cab (when splittable cab is used)		43
Testing and adjusting bucket positioner		44
Testing and adjusting lift arm position detecting lever		46
Checking proximity switch operation indication lamp		47
Procedure for testing diodes		48
Preparations for work on troubleshooting of electrical system		49
Testing and adjusting, Part 3	SEN00727-01	
Testing and adjusting, Part 3		2
Starting KOMTRAX terminal operations (if equipped)		2
Indicator lamps of KOMTRAX terminal (if equipped)		8
Machine monitor-based adjustment at replacement, disassembly and assembly, and additional installation for each sensor and controller		11
Special functions of machine monitor (EMMS)		13
Testing and adjusting, Part 4	SEN00728-01	
Testing and adjusting, Part 4		2
Special functions of machine monitor (EMMS)		2
Pm click inspection table		40

**Thank you very much
for your reading.**

**Please click here and go
back to the website.**

**Then, you can
download the complete
manual instantly.**

No waiting.