Shop Manual

VEBM950201

WA65-3
WA65-3 Parallel Lift
WA75-3
WA85-3
WA90-3
WA95-3

WHEEL LOADER

SERIAL NUMBER	
WA65-3	HA940051 AND UP
WA65-3 PARALLEL LIFT	HA050051 AND UP
WA75-3	HA950051 AND UP
WA85-3	HA960051 AND UP
WA90-3	HA970051 AND UP
WA95-3	HA980051 AND UP

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local KOMATSU distributor for those items you may require. Materials and specifications are subject to change without notice.

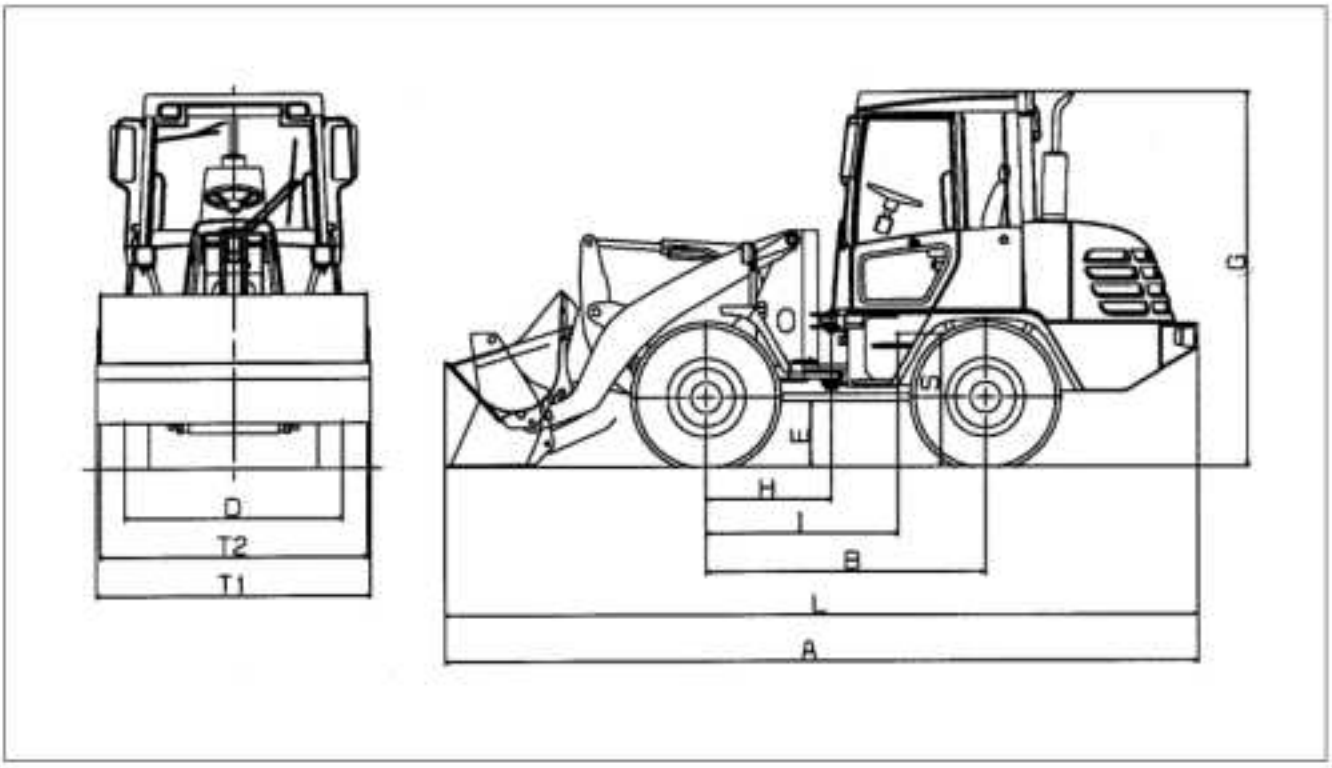
- For details of these engines see Engine Shop Manual, P/N: YMHINSHI-H8013.

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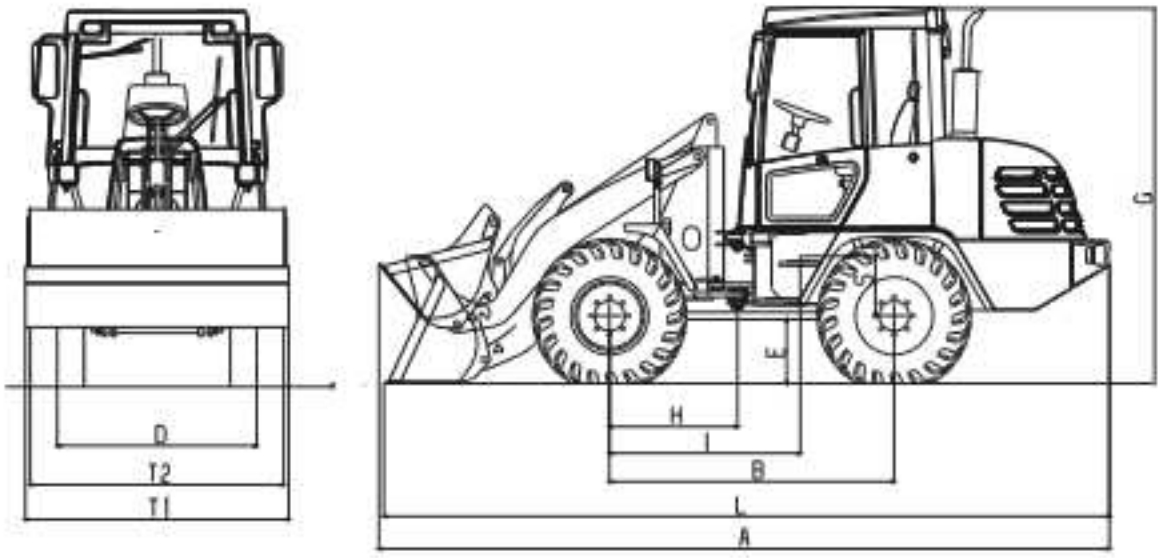
Dimensions, weights and operating data – WA65-3



Dimensions, operating data				
	Bucket capacity as per ISO 7546	**m³**	**0.7**	
	Material density	t/m³	1.8	
	Static tipping weight, straight	kg	3500	
	Static tipping weight, articulated 40°	kg	3050	
	Operating load, forklift *)	kg	1700	
	Breakout force	kN	39.8	
	Lifting capacity on ground	kN	33.3	
	Operating weight *)	kg	4260	
	Turning radius over bucket	mm	4020	
L	Length, bucket in carry-position	mm	5140	
A	Length, bucket on ground	mm	5120	
T1	Width, with bucket	mm	1850	The 0.7 m³ bucket given in the table is also available with blade attachment.
T2	Width, without bucket (over tires)	mm	1780	
G	Height, including ROPS	mm	2600	Special buckets: 1.0 m³ light weight material bucket 0.55 m³ multi purpose bucket
D	Tread, front Tread, rear	mm mm	1450 1450	
B	Wheel base	mm	1950	
H	Distance, pivot center - front axle	mm	900	These value apply to machines with 335/80R18 tires.
E	Ground clearance, axle/distributor gear Ground clearance, drive shaft	mm mm	300 430	
S	Center of gravity, height over axle-center	mm	420	
I	Center of gravity, distance to front axle	mm	1340	*) Machine without additional counterweight.

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Dimensions, weights and operating data – WA65-3 Parallel Lift



Dimensions, operating data				
	Bucket capacity as per ISO 7546	m^3	0.7	
	Material density	t/m^3	1.8	
	Static tipping weight, straight	kg	3500	
	Static tipping weight, articulated 40°	kg	3050	
	Operating load, forklift *)	kg	1700	
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L	Length, bucket in carry-position	mm	5140	
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T1	Width, with bucket	mm	1850	The 0.7 m^3 bucket given in the table is also available with blade attachment.
T2	Width, without bucket (over tires)	mm	1780	
G	Height, including ROPS	mm	2600	Special buckets: 1.0 m^3 light weight material bucket 0.55 m^3 multi purpose bucket
D	Tread, front Tread, rear	mm mm	1450 1450	
B	Wheel base	mm	1950	
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Weight table – WA90-3/95-3

This weight table is a guide for use when transporting or handling components.

Components	Weight [kg]
Engine	310
Radiator	30
Drive shaft	17.3
Front axle	253
Rear axle with reduction gear	295
Wheel (each)	120
Tire (each)	80
Orbit-roll valve	7.0
Priority valve	5.0
Steering cylinder	39
Variable-displacement motor	47
Variable-displacement pump	40
Hydraulic pump	9.0
Main control valve	17.0

Components	Weight [kg]
Boom cylinder	43
Bucket cylinder	49
Engine hood	33
Engine hood carrier	30
Front frame	450
Rear frame	742
Quick-coupler	110
Bellcrank	80
Boom (including bushing)	385
Bucket	415
Counterweight	650
Battery	24.5
Floor, Cab assembly	450
Operator's seat	32

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Wiring diagram – Fig. 3

NOTE
See wiring diagram 3 in chapter 90 "APPENDIX", page 10-155

Sect.	Description			Sect.	Description	
68	M 7	Wiper, front		79	B 245.1	Speaker left
59	M 78	Fan heater/cooler		80	B 245.2	Speaker right
66	M 182	Washer motor		74	B 279	Horn reversing-warning
72	M 248	Wiper rear		66	K 374	Relay washer wiper front
51	P426	Main control panel		66	K 375	Relay washer wiper rear
58	S 54	Switch ventilation		73	K 385	Relay, reversing-warning lamp
65	S 56	Switch washer wiper front		65	H 56	Warning lamp wiper front
76	S 195	Switch rotating warning light		76	H 195	Warn. lamp rotating warning light
70	S 328	Switch washer wiper rear		69	H 396	Warning lamp wiper rear
51	S 397	Switch rear window defroster		51	H 396	Warn. lamp rear window defroster
78	W 309	Ariel radio		77	E 130	Rotating warning light
79	A 249	Casette radio				
Connectors						
X J		Connector control panel		X M		Connector engine
X L		Connector platform		X F		Connector front frame
X C		Connector cabin				
Fuses						
F...		Fuse				

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Measuring the stopping distance 20-53
Parking brake efficiency 20-54
Travel speed 20-55

★ For more details of testing and adjusting the engine, see Engine Manual Part-No. YMHINSHI-H8013.

• When using the standard value table to make judgement for testing and adjusting, and troubleshooting, the following precautions are necessary.

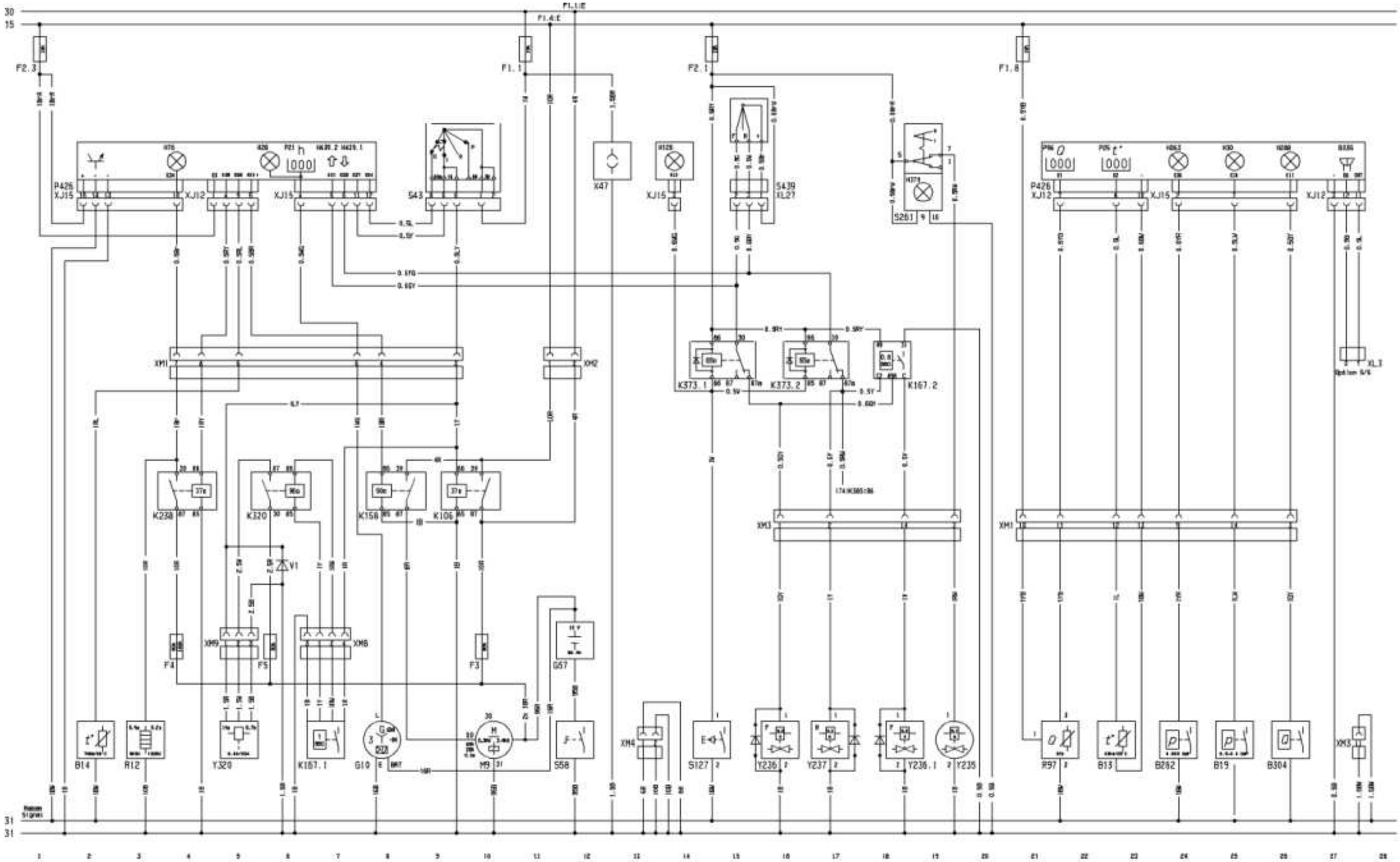
1. The standard values in the table are the values for a new machine and are given as reference values for the time when the machine is shipped from the factory. These values should be used as a guide when estimating wear and tear after the machine is operated, and when carrying out repairs.
2. The permissible values given in the table are values estimated based on the results of various tests carried out on the machines shipped from the factory, so they should be used together with the information on the repair condition and other information such as the operating history of the machine when judging the condition of the machine.
3. These standard values do not form a basis for judging claims.

⚠

- **When carrying out testing, adjusting, or troubleshooting, park the machine on level ground and use the safety pins and blocks to prevent the machine from moving.**
- **When carrying out work together with other workers, always use signals and do not let unauthorized people near the machine.**
- **When checking the water level, always wait for the water to cool down. If the radiator cap is removed when the water is still hot, the water will spurt out and cause burns.**
- **Be careful not to get caught in the fan, fan belt, or other rotating parts.**

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Wiring diagram – Fig. 1



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