Shop Manual

VEBM310100

WA75-3 FLEET WHEEL LOADER

SERIAL NUMBER HA300051 AND UP

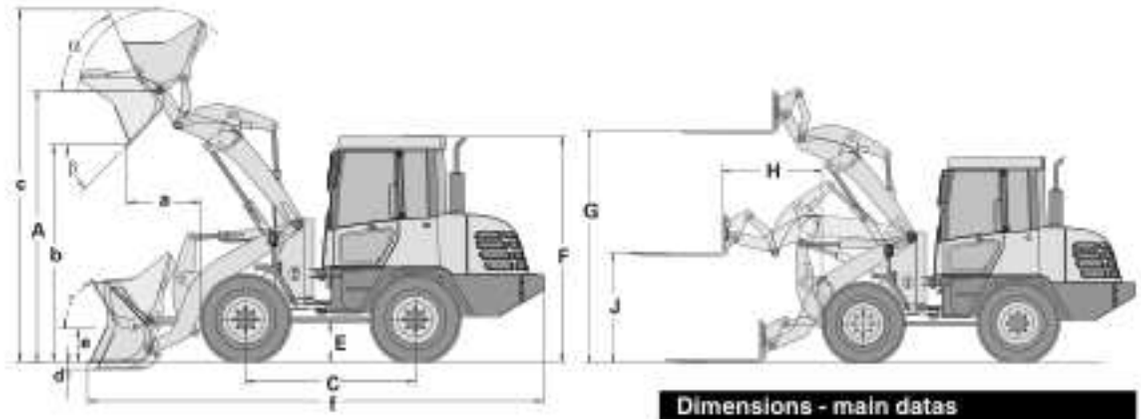
- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local KOMATSU distributor for those items you may require. Materials and specifications are subject to change without notice.
- For details of the engine see Engine Shop Manual, P/N: YMHINSHI-H8013.

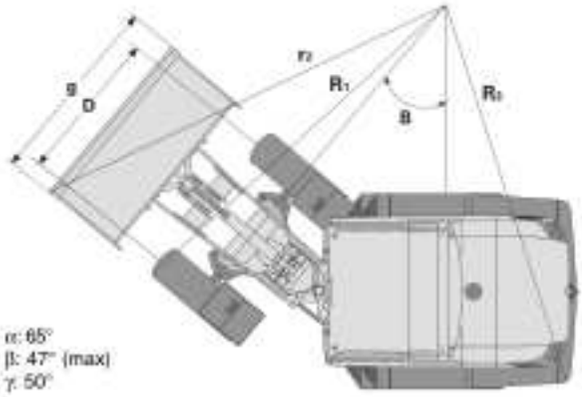
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Dimensions, weights and operating data





α: 65°
β: 47° (max)
γ: 50°

Dimensions - main datas		
A	Bucket pivot point	3,125 mm
R1	Turn radius	3,640 mm
R3	Turn radius	3,700 mm
B	Angle	40°
C	Wheel base	1,950 mm
D	Track width	1,450 mm
E	Ground clearance	405 mm
F	Height over all	2,600 mm

Dimensions - with fork beaks		
G	max. stack height	2,925 mm
H	max. reach	1,210 mm
J	Fork height at max. reach	1,385 mm
max. tipping load straight ISO 8313		2,740 kg
max. tipping load angled		2,375 kg
max. load capacity - EN 474-3, 80%		1,900 kg
max. load capacity EN 474-3, 60%		1,420 kg

(Fork lift and beaks in standard design)

Work value - bucket application *						
Bucket type		**Universal bucket**	**Light material bucket**		**Multi purpose bucket**	**High tip bucket**
Buckets (piled loading)	**m³**	**0.8**	**1.0**	**1.25**	**0.65**	**1.25**
Pour weight	t/m³	1.6	1.4	1.0	1.8	0.8
Bucket weight w. c. teeth	kg	335	380	410	535	700
Static tipping load, straightn	kg	3.650	3.570	3.520	3.150	2.880
Static tipping load, 40° angled	kg	3.180	3.070	3.030	2.680	2.430
Max. breakout force	kN	39,8	34,3	29,8	32,8	18
Max. lift force	kN	33,3	32,9	32,7	33,4	31
Operating weight	kg	4.500	4.545	4.575	4.825	4.865
a Reach at 45°	mm	790	815	900	830	1.395**
b Dump height at 45°	mm	2.490	2.425	2.335	2.380	3.750**
c Height of bucket top edge	mm	4.030	4.030	4.150	3.890	5.080
d Digging depth	mm	80	110	110	130	110
e Height of bucket transport	mm	350	350	350	350	350
f Total length	mm	5.120	5.230	5.295	5.350	5.905
g Bucket width	mm	1.850	2.100	2.100	2.000	2.100
r2 Turning radius over bucket	mm	4.025	4.180	4.205	4.080	4.400

* All datas with tire 335/80 R18 SPT9 ** at max. dump angel

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Weight table

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

Components	Weight [kg]
Engine	225
Radiator	22
Drive shaft	10.5
Front axle	189
Rear axle with reduction gear	216
Wheel (each)	75
Tire (each)	50
Orbit-roll valve	6.5
PPC valve	5.0
Steering cylinder	19
Variable-displacement motor	32
Variable-displacement pump	39
Hydraulic pump	4.2
Main control valve	11.6
Boom cylinder	39

Components	Weight [kg]
Bucket cylinder	29
Engine hood	33
Engine hood carrier	29
Front frame	250
Rear frame	520
Quick-coupler	103
Bellcrank	49
Boom (including bushing)	283
Bucket	335
Counterweight	222
Counterweight, rear frame	100
Counterweight, front axle	2 x 70
Battery	24.5
Floor, Cab assembly	450
Operator's seat	32

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Wiring diagram – Fig. 5

Legend for diagram 5
(see chapter 90 "APPENDIX"

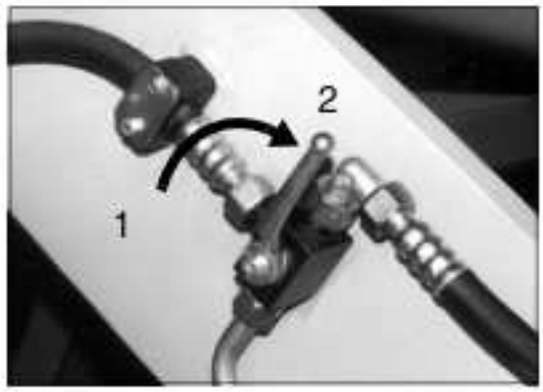
Section	Name			Section	Name	
113	W 309	Antenna		124	K 373.1	Relay parking brake forward
114	A 249	Radio with cassette recorder		124	K 373.2	Relay parking brake reverse
114	B 245.1	Loudspeaker left		125	Y 174...	Magnetic valve for 3rd control circuit
115	B 245.2	Loudspeaker right		125	S 173	Switch for 3rd control circuit
117	R 434	Resistor for trnsmission check lamp		127	S 43	Starter switch
117	S 435	Transmission warning switch		128	R 444	Seat heater
117	S 437	Sprinter switch		128	H 444	Check lamp seat heater
118	Y 436.2	Magnetic valve sprint		129	M 441	Seat compressor
118	H 434	Transmission warning check lamp		129	S 444	Seat heater switch
119	Y 436.1	Magnetic valve slow		130	S 441	Switch air suspensioned seat
120	P 426	Instrument paneel		131	Y 446	Magnetic valve quick coupler
120	H 438	Sprinter check lamp		131	S 445	Quick coupler switch
120	S 438	Sprinter check lamp switch		133	M 407	Central lubrication
122	E 71	Licence plate light left		136	H 195	Turning light check lamp
123	E 72	Licence plate light right		136	E 130	Turning light
123	S 439	Drive direction switch		136	S 195	Turning light switch
Plugs						
X J		Instrument paneel plug		X M		Engine plug
X L		Platform plug		X F		Front frame plug
X C		Cab plug				
Fuses						
F...		Fuse				

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Quick-attach coupler assembly

Removal of quick-attach coupler assembly

- Prior to removing the quick-attach coupler the working equipment must be disengaged. See the operating instructions.
- Unlock the quick-attach coupler and make sure that the control lever is set to lock position (2).



⚠

- **Park the machine on level ground and secure it against rolling away and jack-knifing! Lower the bucket, switch the engine off and apply the parking brake!**
- **Depressurise the hydraulic system: loosen the filler/ vent plug a few turns to relieve the pressure in the tank.**

1. Hydraulic lines

Remove the locking rings (2) on both sides of the quick-attach coupler system at the connecting block and withdraw the angular part together with the gauge bushing (1).



2. Rocker arm

Unscrew the locking bolt (3) and remove the bolt from the rocker arm. ✻1

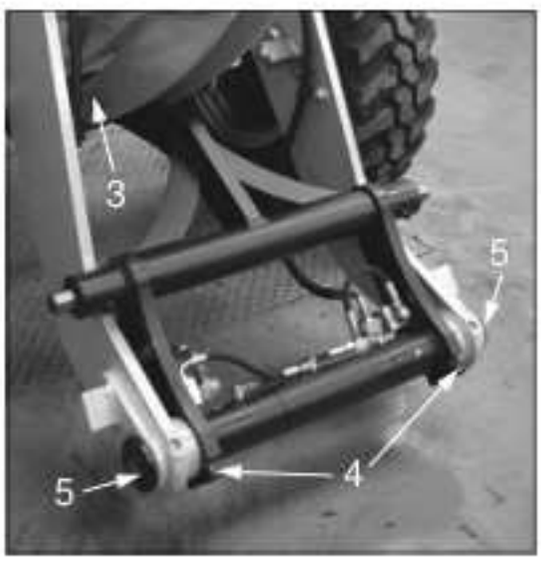
3. Quick-attach coupler

a. Loosen the clamping screws (4) on the quick-attach coupler's joint rod. ✻2

b. Unscrew the bearing bushes (5) ✻3

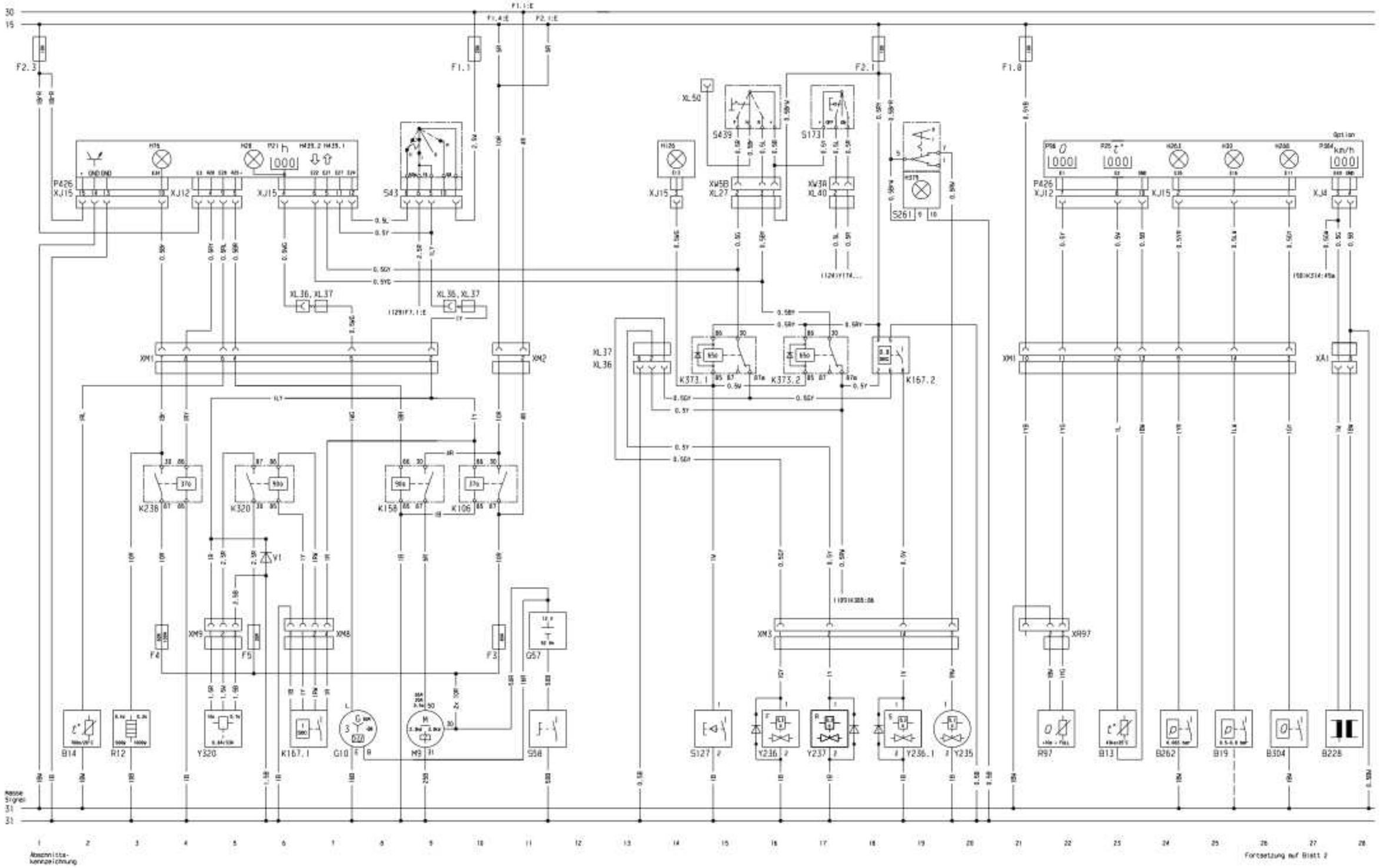
c. Use hoisting gear to lift the quick-attach coupler out of the lifting arms.

kg Quick-attach coupler system: **103 kg**



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Wiring diagram – Fig. 1



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