SHOP MANUAL

SMEW3800T0

MAX avance

WA380-3

WHEEL LOADER

SERIAL NUMBERS WA380-16001 AND UP

KOMATSU®

⚠ WARNING

- This shop manual may contian attachment and optional equipment that are not available in your area.Please consult your local Komatsu distributor for those items you may require.Materials and specifcations are subjece to change without notice.
- WA380-3 mount the SAA6D114E-2 engine. For details of the engines,see the 6D114 series Engine shop manual.

KOMATSU (CHANGZHOU) CONSTRUCTION MACHINERY CORP.

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SPECIFICATIONS

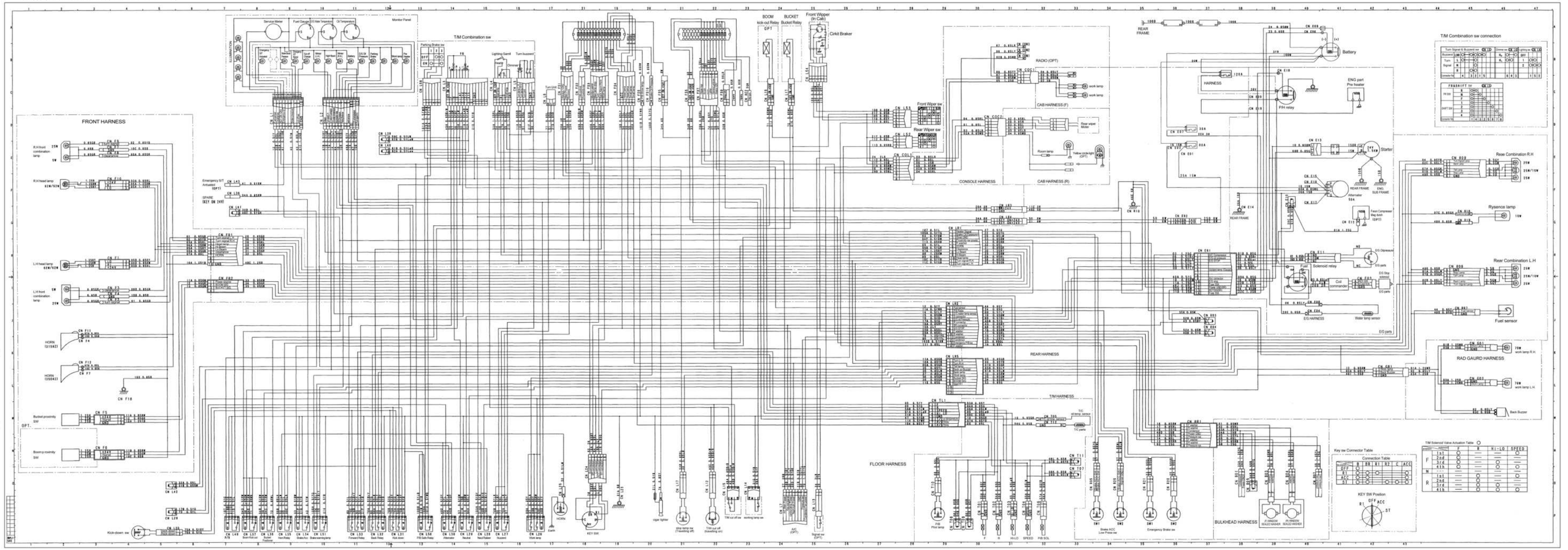
	Machine model			WA380-3
	Serial No.			16001 and up
Weight	Operating weight		(kg)	16620
	Distribution (front)		(kg)	8205
	Distribution (rear)		(kg)	8415
Performance	Bucket capacity (piled)		(m^3)	3.0
	Rated load		(kg)	5000
	Travel speed	FORWARD 1 st	(km/h)	7.7
		FORWARD 2 nd	(km/h)	12.3
		FORWARD 3 rd	(km/h)	21.4
		FORWARD 4 th	(km/h)	34.0
		REVERSE 1 st	(km/h)	8.0
		REVERSE 2 nd	(km/h)	12.8
		REVERSE 3 rd	(km/h)	22.6
		REVERSE 4 th	(km/h)	35.0
	Max. rimpull		(kN(kg))	147 (15000)
	Gradeability		(deg)	25
	Min. Turning radius	Center of outside wheel	(mm)	5475
		Outside portion of Chassis	(mm)	6470
Dimensions	Overall length		(mm)	7965
	Overall width (chassis)		(mm)	2780
	Bucket width (with BOC)		(mm)	2915
	Overall height (top of ROPS cab)		(mm)	3380
	(Bucket raised)		(mm)	5520
	Wheelbase		(mm)	3200
	Tread		(mm)	2160
	Min. ground clearance		(mm)	455
	Height of bucket hinge pin		(mm)	4095
	Dumping clearance (tip of BOC)		(mm)	2900
	Dumping reach (tip of BOC)		(mm)	1170
	Bucket dump angle		(deg)	45
	Bucket tilt angle (SAE carring position)		(deg)	46
	Digging depth (10° dump)(with TOOTH)		(mm)	315

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	Machine model		WA380-3
	Serial No.		16001 and up
Engine	Model		Komatsu SAA6D114E-2
	Type		4-cycle, water-cooled, in-line, 6-cylinder, direct injection, with turbocharger
	No. of cylinders – bore x stroke	(mm)	6-114×135
	Piston displacement	(ℓ)	8.3
	Flywheel horsepower	(kW (HP)/rpm)	146(196)/2200
	Maximum torque	(Nm (kgm)/rpm)	968(98.8)/1500
	Fuel consumption ratio	(g/kWh (g/HPh))	241(177)
	High idling speed	(rpm)	2460
	Low idling speed	(rpm)	850
	Starting motor		24 V 7.5 kW
	Alternator		24 V 60A
	Battery		12 V 140Ah×2
Power train	Torque converter		3-element, 1-stage, single-phase (Komatsu TCA37-2A)
	Transmission		Spur gear, constant-mesh multiple-disc, hydraulically actuated, modulation type
	Reduction gear		Spiral bevel gear
	Differential		Straight bevel gear, torque proportioning
	Final drive		Planetary gear, single reduction
Axle, wheel	Drive type		Front/rear-wheel drive
	Front axle		Fixed-frame, semi-floating
	Rear axle		Center pin support type, semi-floating
	Tire		23.5−25−16PR(L−3)
	Wheel rim		19.5/2.5−25(TT)
	Inflation pressure	Front tire (KPa (kg/cm²))	319(3.25)
		Rear tire (KPa (kg/cm²))	319(3.25)
Brakes	Main brake		Front/rear wheel independent braking wet-type sealed disc brakes with hydraulic power-doubling device
	Parking brake		Thrust shaft (transmission shaft) braking, wet-type disc brake

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WA380-3 WIRING DIAGRAM (Serial number :16001-)



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