SEBM03610100

Shop Manual

KOMATSU®

WA20-1

WHEEL LOADER

SERIAL NUMBERS WA20-1 1773 and up

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WEIGHT TABLE

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

(Unit: kg)

Engine ass'y (KOMATSU 3D78-1A)	176.0
Radiator ass'y	10.0
Fuel tank	15.0
Battery	33.0
Transmission ass'y	185.0
Drive shaft	14.0
Bevel pinion	–
Front axle	110.0
Rear axle	110.0
Wheel (with tire) 1pc	46.5
Brake ass'y	18.0
Steering valve	6.7
Controling linkage	43.0
Frame	238.0
Operator's seat	12.0
Hydraulic tank	21.0
Steering pump	2.4
Hydraulic pump	2.4
Dump cylinder	12.0
Lift cylinder (one cylinder)	10.0
Steering cylinder	8.0
Boom, bucket link ass'y	243.0

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TABLE OF OIL AND COOLANT QUANTITIES

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE	CAPACITY (ℓ)	
			Specified	Refill
Engine oil pan	Engine oil	SAE 30; SAE 10W; SAE 10W-30; SAE 15W-40	3.3	2.5
Brake	Engine oil	SAE 10W; SAE 5W	0.3	0.3
Transmission case	Engine oil	SAE 10W	8	6
Hydraulic system	Engine oil	SAE 10W	20	14.5
Axle (Front and rear)	Engine oil	SAE 30	each 5.5	each 4.0
Fuel tank	Diesel fuel	※1; ASTM D975 No. 2	25	–
Cooling system	Water	Add antifreeze	6.5	–

-22 -4 14 32 50 68 86 104°F
-30 -20 -10 0 10 20 30 40°C

※ ASTM D975 No. 1

NOTE:

(1) When fuel sulphur content is less than 0.5%, change oil in the pan every periodic maintenance hours described in this manual.
Change oil according to the following table if fuel sulphur content is above 0.5%.

Fuel sulphur content	Change interval of oil in engine oil pan
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

(2) When starting the engine in an atmospherric temperature of lower then 0°C, be sure to use engine oil of SAE10W, and SAE10W-30, even though an atmospheric temperature goes up to 10°C more or less in the day time.

(3) Use API classification CD as engine oil and if API classification CC, reduce the engine oil change interval to half.

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ASTM: American Society of Testing and Material
SAE: Society of Automotive Engineers

Specified capacity: Total amount of oil including oil for components and oil in piping.
Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance.

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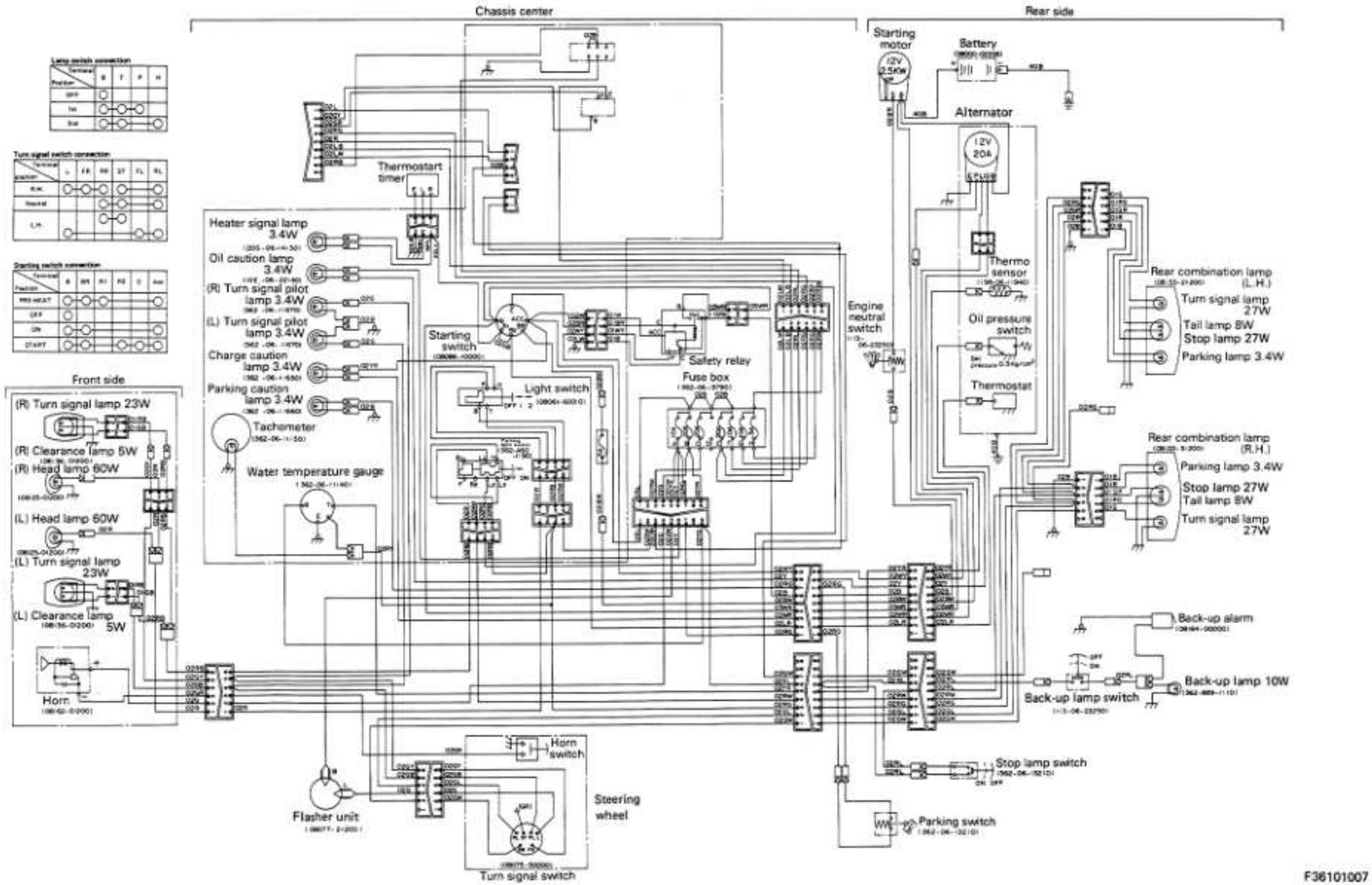
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ELECTRICAL WIRING DIAGRAM



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