SEBM020D0304

SHOP MANUAL

KOMATSU®

PW100-3

MACHINE MODEL	SERIAL NUMBER
PW100-3	**1890 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.

- PW100-3 mounts the S6D95L-1 engine.
  For details of the engine, see the 95 Series Engine Shop Manual.

MidWestTech | Komatsu PW100-3 Wheel Excavator Service Manual | Publication SEBM020D0304

Order the manual at mid-west-tech.com >

WEIGHT TABLE

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

Unit: kg

Machine model	PW100-3	
Serial No.	1890 – 2300	2301 and up
Overall weight of upper revolving works	4,450	4,405
• Engine	450	450
• PTO	20	20
• Radiator assembly (incl. oil cooler)	86	80
• Swing circle	168	168
• Swing machinery	105	105
• Revolving frame	101.5	93
• Guard	244	244
• Counterweight	1,500	1,550
• Cabin (incl. floor)	347	350
• Operator's seat	40	40
• Hydraulic pump (incl. steering pump)	126	126
• Swing motor (incl. brake valve)	32	32
• L.H. 5-spool control valve	42	42
• R.H. 4-spool control valve	28	28
• Center swivel joint	71	65
• Hydraulic tank and fuel tank assembly (excl. Hydraulic oil and fuel)	175	175
Overall weight of lower travel mechanism	3,510	3,820
• Frame (incl. fender and bracket)	1,456	1,700
• Front axle	590	620
• Rear axle	460	490
• Drive shaft	12.5 x 2	12.5 x 2
• Parking brake	12.5	17
• Transmission	120	120
• Front tire (incl. rim)	85 x 4	85 x 4
• Rear tire (incl. rim)	85 x 4	85 x 4
• Travel motor	83	83
• Steering cylinder	16	16
• Suspension lock cylinder	34 x 2	34 x 2

020D03

MidWestTech | Komatsu PW100-3 Wheel Excavator Service Manual | Publication SE... Order the manual at mid-west-tech.com >

Unit: kg

Machine model	PW100-3	
Serial No.	1890 – 2300	2301 and up
Overall weight of work equipment	1,882	1,892
• Boom assembly	770	770
• Arm assembly	269	279
• Bucket assembly	358	358
• Link assembly	91.5	91.5
• Outrigger	810	860
• Boom cylinder	93 x 2	93 x 2
• Arm cylinder	125	125
• Bucket cylinder	83	83
• Outrigger cylinder	74.5	74.5

020D03

MidWestTech | Komatsu PW100-3 Wheel Excavator Service Manual | Publication SE... Order the manual at mid-west-tech.com >

TABLE OF FUEL, COOLANT AND LUBRICANTS

Serial No. : 1890 – 2300

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE (-22 -4 14 32 50 68 86 104°F / -30 -20 -10 0 10 20 30 40°C)	CAPACITY (ℓ) Specified	Refill
Engine oil pan	Engine oil	SAE 30 / SAE 10W / SAE 10W-30 / SAE 15W-40	12.5	10.5
Swing machinery case	Engine oil	SAE 30	4.5	4.5
Transmission case	Engine oil	SAE 30	7.6	7.6
Hydraulic system	Engine oil	SAE 10W / SAE 10W-30 / SAE 15W-40	170	110
Lubricator	Engine oil	SAE 10W	0.135	—
Differential gear case (Front)	Gear oil	GO 140	11.6	11.6
Differential gear case (Rear)	Gear oil	GO 90	14	14
Final drive case (Front and rear on each side)	Gear oil	GO 80	2.4	2.4
Brake	Brake fluid	SAE J-1703f	1.4	1.3
Air master	Vacuum cylinder oil		0.03	—
Fuel tank	Diesel fuel	ASTM D975 No. 2 / ※	210	—
Cooling system	Coolant	Add antifreeze	23	—

※ ASTM D975 No. 1

020D03

NOTE:

(1) When fuel sulphur content is less than 0.5 %, change oil in the oil 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

ASTM: American Society of Testing and Material
SAE: Society of Automotive Engineers
API: American Petroleum Institute

(2) When starting the engine in an atmospheric temperature of lower than 0°C, be sure to use engine oil of SAE10W, SAE10W-30 and SAE15W-40 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.

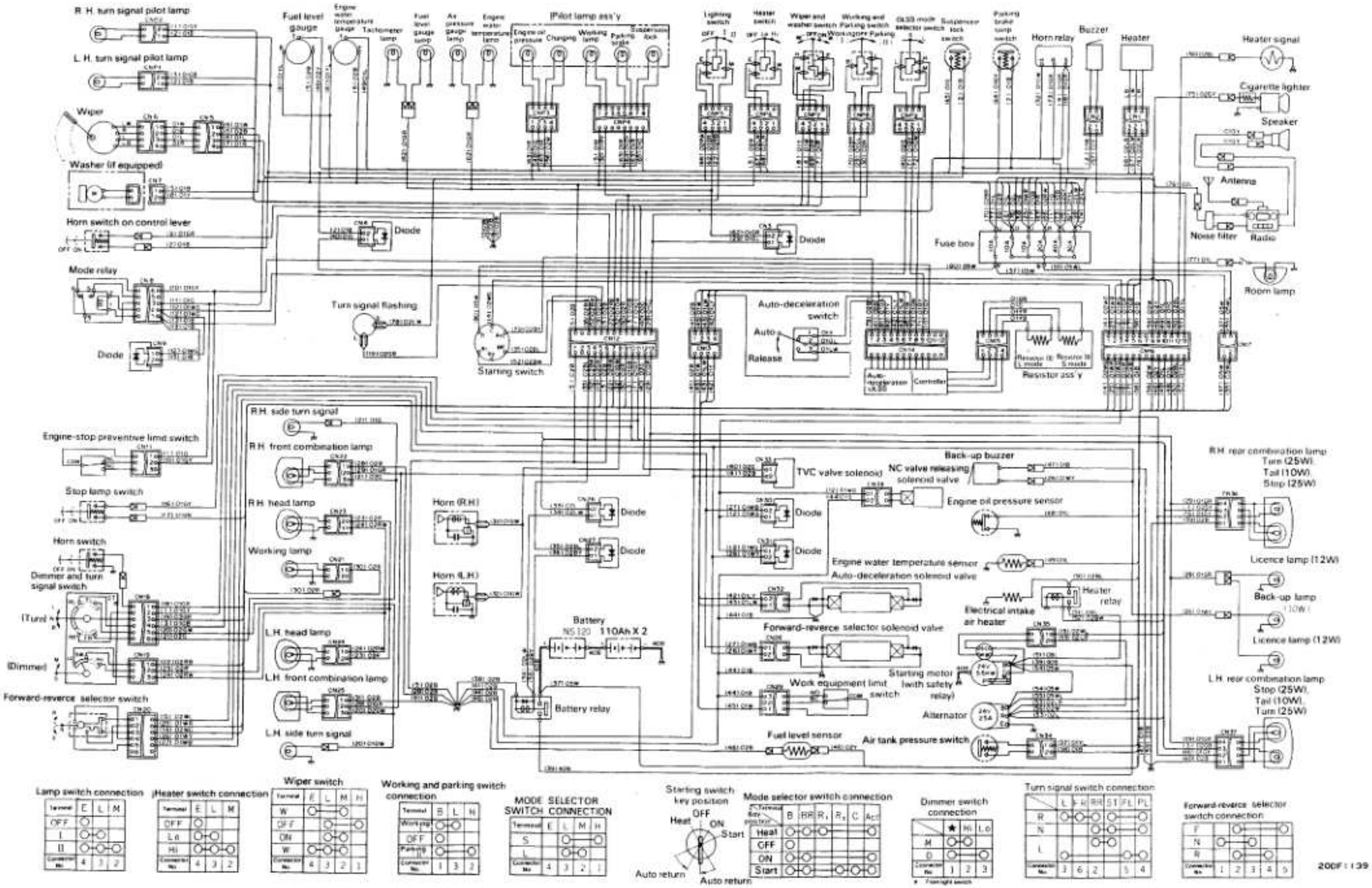
(4) There is no problem if single grade oil is mixed with multigrade oil (SAE10W-30, 15W-40), but be sure to add single grade oil that matches the temperature in the table on the left.

(5) We recommend Komatsu genuine oil which has been specifically formulated and approved for use in engine and hydraulic work equipment applications.

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.

MidWestTech | Komatsu PW100-3 Wheel Excavator Service Manual | Publication SE... Order the manual at mid-west-tech.com >

Serial No.: 1890 – 2300
FOR MACHINE EQUIPPED WITH AUTO-DECELERATION SYSTEM AND OLSS (IF EQUIPPED)



81-4
②

PW100-3

MidWestTech | Komatsu PW100-3 Wheel Excavator Service Manual | Publication SEBM020D0304

Order the manual at mid-west-tech.com >