SEBM02010607

SHOP MANUAL

KOMATSU®

PC60-6
PC60L-6
PC90-1

MACHINE MODEL	SERIAL No.
PC60-6	28001 and up
PC60L-6	8001 and up
PC90-1	1001 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.

- PC60, 60L and PC90 mount the 4D95L-1 engine.
  For details of the engine, see the 95 series engine Shop Manual.

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WEIGHT TABLE

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

Unit: kg

Machine Model	PC60-6	PC60L-6	PC90-1
Serial Numbers	28001 and up	8001 and up	1001 and up
Engine assembly (excluding water and oil)	310	310	310
P. T. O.	20	20	20
Radiator and oil cooler assembly	27	27	27
Revolving frame	645	645	645
Operator's cab	240	240	240
Operator's seat	32	32	32
Hydraulic tank and fuel tank assembly (excluding oil and fuel)	125	125	130
Counterweight	700	700	1,400
Hydraulic pump assembly	85	85	85
L.H. 6 spool control valve	26	26	26
R.H. 5 spool control valve	24	24	24
Swing circle assembly	111	111	112
Swing machinery assembly	86	86	86
Swing motor	26	26	26
Center swivel joint	19	19	19
Track frame assembly	1,295	1,381	1,819
• Track frame	718	815	932
• Idler	53.5 × 2	53.5 × 2	68.5 × 2
• Idler cushion	36.5 × 2	36.5 × 2	52 × 2
• Carrier roller	11 × 2	11 × 2	11 × 2
• Track roller	14.2 × 10	14.2 × 12	19.3 × 12
• Travel motor	91.5 × 2	152 × 2	167 × 2
• Sprocket	25 × 2	21 × 2	29 × 2

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Unit: kg

Machine model	PC60-6	PC60L-6	PC90-1
Serial Numbers	28001 and up	8001 and up	1001 and up
Track shoe assembly			
Triple shoe (450 mm)	800 x 2	—	—
Triple shoe (480 mm)	—	—	1,185 x 2
Wide triple-shoe (600 mm)	970 x 2	1,080 x 2	1,615 x 2
Wide triple-shoe (700 mm)	—	1,200 x 2	1,790 x 2
Flat shoe (480 mm)	1,140 x 2	—	1,380 x 2
Swamp shoe (700 mm)	980 x 2	1,090 x 2	—
Swamp shoe (750 mm)	—	—	1,585 x 2
Rubber shoe (450 mm)	403 x 2	—	—
Boom assembly	419	419	530
Arm assembly	157	157	213
Link assembly	55	55	55
Bucket assembly	211	211	236
Blade	360	—	—
Boom cylinder assembly	109	109	127
Arm cylinder assembly	80	80	104
Bucket cylinder assembly	61	61	61
Blade cylinder	48	—	—

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LIST OF LUBRICANT AND WATER

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE °F / °C	CAPACITY (l) Specified	CAPACITY (l) Refill
Engine oil pan	Engine oil	SAE 30 / SAE 10W / SAE 10W-30	8.0	7.0
PTO case Swing machinery case Final drive case (each)	Engine oil	SAE 30	0.9 2.4 PC60: 1.7 PC60L,80: 3	0.9 2.4 PC60: 1.7 PC60L,80: 3
Hydraulic system	Engine oil	SAE 10W / SAE 10W-30 / SAE 15W-40	PC60,60L: 100 PC80: 105	PC60,60L: 67 PC80: 67
Idler (each) Track roller (1 piece) Carrier roller (1 piece)	Engine oil	SAE 30	PC60,60L: 0.08 PC80: 0.120–0.135 PC60,60L: 0.08 PC80: 0.100–0.115 0.072	PC60,60L: 0.06 PC80: 0.120–0.135 PC60,60L: 0.06 PC80: 0.100–0.115 0.072
Fuel tank	Diesel fuel	* / ASTM D975 No. 2	PC60,60L: 160 PC80: 200	–
Cooling system	Water	Add anti-freeze	10	–

* ASTM D975 No. 1

NOTE:

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

(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

(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.

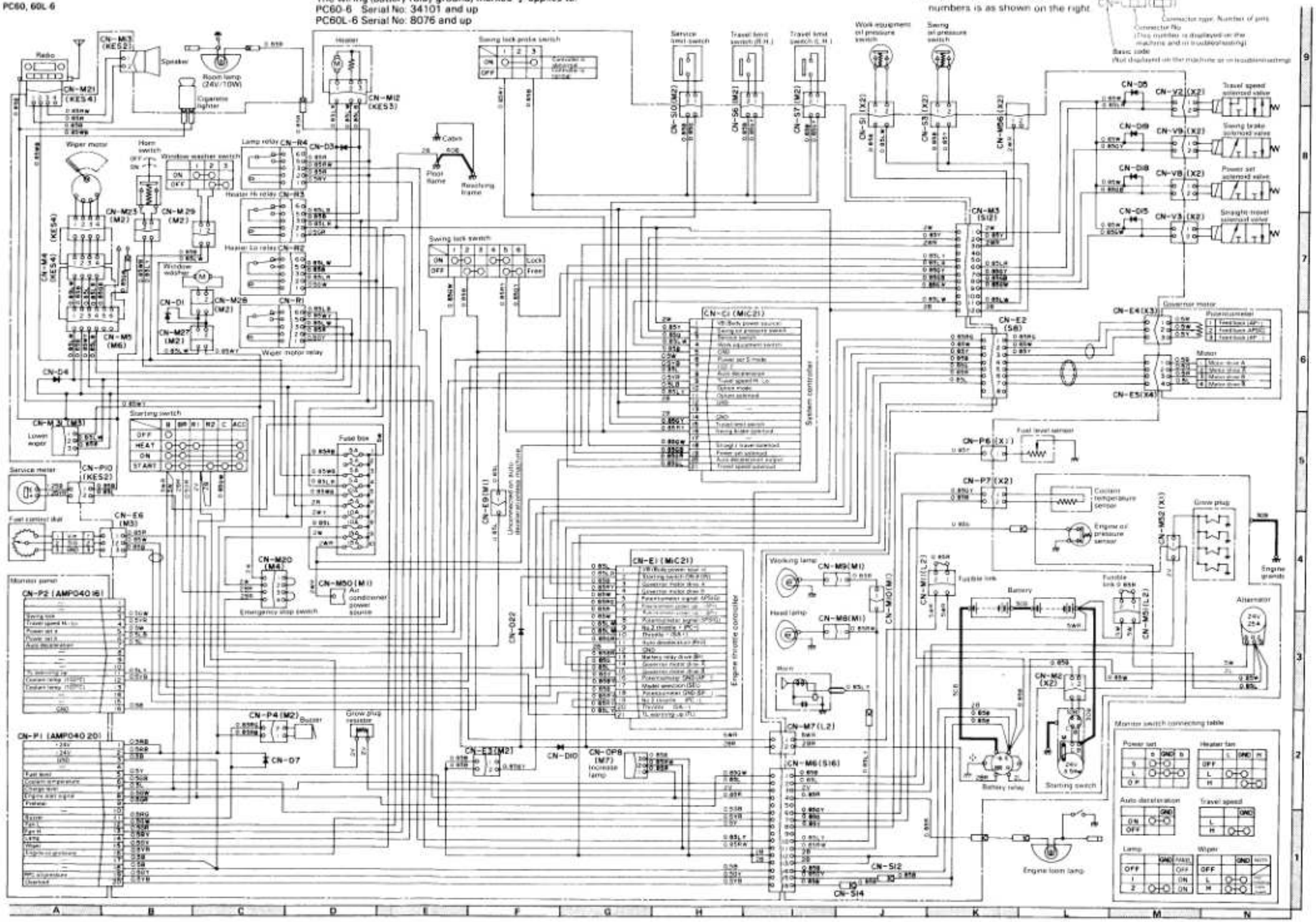
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ELECTRICAL CIRCUIT DIAGRAM

PC60, 60L-6

The wiring (battery relay ground) marked ✣ applies to:
PC60-6 Serial No: 34101 and up
PC60L-6 Serial No: 8076 and up

★ The display for connector numbers is as shown on the right.



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