EEBM000106

SHOP MANUAL

KOMATSU®

PW170-5K

MACHINE MODEL	SERIAL No.
PW170-5K	**K20001 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.

- PW170-5K mount the 1006-6T engine. For details of the engine, see 1000 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	PW170-5K
Serial Numbers	K2001 and up
Engine	570
Radiator and oil cooler assembly	48
Revolving frame	1480
Operator's cab	238
Operator's seat	37
Fuel tank assembly (excluding fuel)	96
Hydraulic tank assembly (excluding oil)	115
Counterweight	3000
Hydraulic pump assembly	160
L.H. 6-spool control valve	45
R.H. 5-spool control valve	40
Swing circle assembly	223
Swing machinery assembly	137
Swing motor	50
Center swivel joint assembly	82
Blade	243
Rear axle	535
Front axle	670
Suspension lock cylinder	52 × 2
Transmission	90
Propeller shaft	13 × 2
Parking brake	22
Chassis frame	
• Rear dozer	1552
• Rear outrigger	2000
• Front blade rear outrigger	2123
• 4 outrigger	2600
Wheel assembly	144 × 8

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LIST OF LUBRICANT AND WATER

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE 14 32 50 68 86°F / −10 0 10 20 30°C	CAPACITY (ℓ) Specified	Refill
Engine oil sump	Engine oil	SAE 30; SAE 10W; SAE 10W-30; SAE 15W-40	20	20
Swing machinery case	Engine oil	SAE 30	4.5	4.5
PTO gear case	Engine oil	SAE 30	7.6	7.6
	Engine oil	SAE 30	1.0	1.0
Hydraulic system	Engine oil	SAE 10W; SAE 10W-30; SAE 15W-40	190	135
Fuel tank	Diesel fuel	*; ASTM D975 N°2	250	—
Cooling system	Water	Add antifreeze	27	—
Differential gear case (Front)	Gear oil	140	13.5	13.5
(Rear)	Gear oil	SAE 90	20.5	20.5
Final drive case (Front and rear on each side)	Gear oil	SAE 90	2	2
Transmission case	Gear oil	80; SAE 90	7.5	7.5
Brake	Brake fluid	SAE J-1703	0.7	0.7

* ASTM D975 No. 1

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.

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 %.

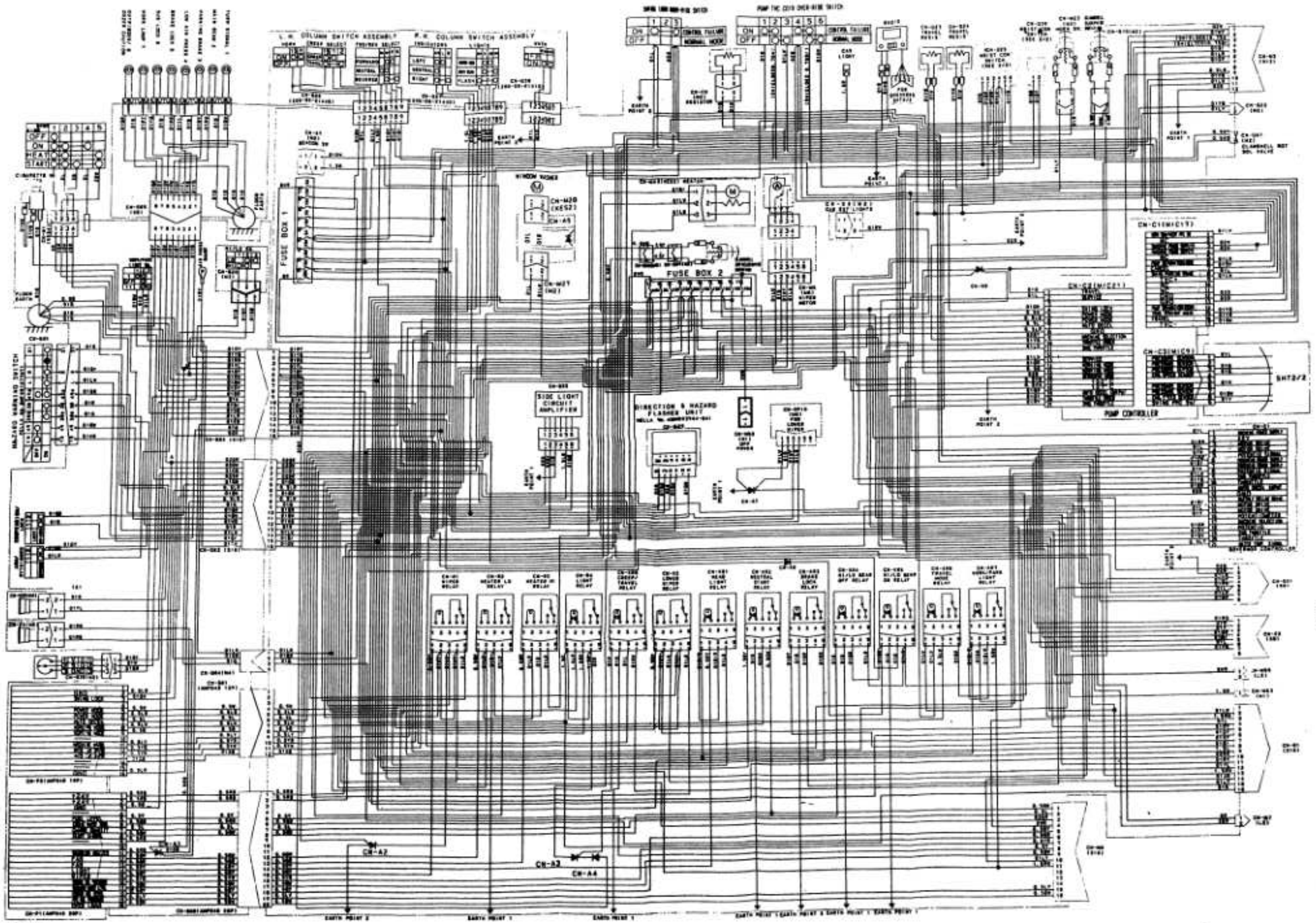
Fuel sulphur content	Change interval of oil in engine oil pan
0.5 to 1.0 %	1/2 of regular interval
Above 1.0 %	1/4 of regular interval

(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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PW170-5K Serial K 20314 and up



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