SEBM000906

SHOP MANUAL

KOMATSU®

PC50UU-2

MACHINE MODEL **PC50UU-2**

SERIAL No. **8001 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.

- PC50UU-2 mount the 4D84-2GA and 4D88E-3 engine.
  For details of the engine, see the 84 Series and 68E-88 Series Engine Shop Manual.

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SPECIFICATIONS

Machine model				PC50UU-2	
Serial Number				8001 – 12771	
Specifications				Canopy specification	Cab specification
Cab specification			kg	5,100(5,150)	5,250(5,300)
Bucket capacity			m^3	0.20	0.20
Performance	Working ranges	Max. digging depth	mm	4,000	4,000
		Max. vertical wall depth	mm	2,620	2,620
		Max. digging reach	mm	5,660	5,660
		Max. reach at ground level	mm	5,565	5,565
		Max. digging height	mm	6,300	6,300
		Max. dumping height	mm	4,600	4,600
		Bucket offset (left/right)	mm	910/730	910/730
		Max. blade lifting height	mm	370	370
		Max. blade lowering depth	mm	370	370
	Max. digging force		kN (kg)	34.32 (3,500)	34.32 (3,500)
	Swing speed		rpm	8.0	8.0
	Max. slope angle for swing		deg.	13	13
	Travel speed		km/h	Low : 2.2/High : 3.8 (Low : 2.1/High : 3.6)	Low : 2.2/High : 3.8 (Low : 2.1/High : 3.6)
	Gradeability		deg.	30	30
	Ground pressure (shoe width: 450mm)		kPa (kg/cm²)	29.4 (0.30)(30.4(0.31))	30.4 (0.31)(31.4(0.32))
Dimensions	Overall length (for transport)		mm	5,335	5,335
	Overall width		mm	2,000	2,000
	Overall height (for transport)		mm	2,550(2,545)	2,565(2,560)
	Overall height		mm	2,550(2,545)	2,565(2,560)
	Ground clearance of counterweight		mm	630	630
	Min. ground clearance		mm	320	320
	Tail swing radius		mm	1,000	1,000
	Min. swing radius of work equipment		mm	1,000	1,000
	Height of work equipment at min. swing radius		mm	4,720	4,720
	Length of track on ground		mm	1,940(1,910)	1,940(1,910)
	Track gauge		mm	1,600	1,600
	Overall length of track		mm	2,455(2,430)	2,455(2,430)
	Blade width x height		mm	2,000X365	2,000X365

Figures in ( ) : Steel shoe specification

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Machine model			PC50UU-2	
Serial Number			8001 – 12771	
Specifications			Canopy specification	Cab specification
Engine	Model		4D84-2GA	
	Type		4-cycle, water-cooled, vertical, direct injection	
	No. of cylinders – bore x stroke	mm	4 – 84 × 86	
	Piston displacement	ℓ {cc}	1.906{1,906}	
	Firing order		1 – 3 – 4 – 2	
	Flywheel horsepower	kW {HP}/rpm	28.7/2,700{38.4/2,700}	
	Max. torque	Nm {kgm} /rpm	118/2,700{12/1,900}	
	Max. speed at no load	rpm	2,875	
	Min. speed at no load	rpm	1,050	
	Min. fuel consumption	g/kWh {g/HPh}	237 {177}	
	Starting motor		12V, 20 kW	
	Alternator		12V, 40A	
	Battery		12V, 70Ah	
	Radiator core type		CD4	
Undercarriage	Carrier roller		1	
	Track roller		5	
	Track shoe		Integrated rubber shoe (assembly-type triple grouser x 38)	
Hydraulic system	Hydraulic pump – Type x no.		Gear type triple pump (SBR14+14+9) x 1 38 + 38 + 24	
	Hydraulic pump – Discharge	ℓ/min	Gear type single pump (PW1-C-3A) x 1 6.9	
	Hydraulic pump – Set pressure for work equipment, travel	MPa {kg/cm²}	20.6 {210}	
	Hydraulic pump – • Offset, blade	MPa {kg/cm²}	21.6 {220}	
	Hydraulic pump – • Control	MPa {kg/cm²}	2.9 {30}	
	Control valve – Type x no.		5-spool type (3-spool + 2-spool) x 1, 4-spool type x 1	
	Control valve – Control method		Hydraulic assist + mechanically operated (travel, blade)	
	Hydraulic motor – Travel motor		Piston type (with reduction gear, counterbalance valve) x 2	
	Hydraulic motor – Swing motor		Piston type (with brake valve) x 1	
	Hydraulic cylinder		Duble-acting piston	
	Hydraulic tank		Box-shaped, open	
	Hydraulic filter		Tank return side	
	Hydraulic cooler		Air cooled	

Figures in ( ) : Steel shoe specification

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Machine model				PC50UU-2	
Serial Number				12772 – 14992	
Specifications				Canopy specification	Cab specification
		Cab specification	kg	5,100(5,150)	5,250(5,300)
		Bucket capacity	m^3	0.20	0.20
Performance	Working ranges	Max. digging depth	mm	4,000	4,000
		Max. vertical wall depth	mm	2,620	2,620
		Max. digging reach	mm	5,660	5,660
		Max. reach at ground level	mm	5,565	5,565
		Max. digging height	mm	6,330	6,330
		Max. dumping height	mm	4,600	4,600
		Bucket offset (left/right)	mm	910/730	910/730
		Max. blade lifting height	mm	370	370
		Max. blade lowering depth	mm	370	370
		Max. digging force	kN (kg)	34.32 (3,500)	34.32 (3,500)
		Swing speed	rpm	11	11
		Max. slope angle for swing	deg.	13	13
		Travel speed	km/h	Low : 2.6/High : 4.3 (Low : 2.4/High : 4.0)	Low : 2.6/High : 4.3 (Low : 2.4/High : 4.0)
		Gradeability	deg.	30	30
		Ground pressure (shoe width: 400mm)	kPa (kg/cm²)	29.4 (0.30)(30.4(0.31))	30.4 (0.31)(31.4(0.32))
Dimensions		Overall length (for transport)	mm	5,335	5,335
		Overall width	mm	2,000	2,000
		Overall height (for transport)	mm	2,550(2,545)	2,565(2,560)
		Overall height	mm	2,550(2,545)	2,565(2,560)
		Ground clearance of counterweight	mm	630	630
		Min. ground clearance	mm	320	320
		Tail swing radius	mm	1,000	1,000
		Min. swing radius of work equipment	mm	1,000	1,000
		Height of work equipment at min. swing radius	mm	4,720	4,720
		Length of track on ground	mm	1,940(1,910)	1,940(1,910)
		Track gauge	mm	1,600	1,600
		Overall length of track	mm	2,455(2,430)	2,455(2,430)
		Blade width x height	mm	2,000X365	2,000X365

Figures in ( ) : Steel shoe specification

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