SEBM001302

SHOP MANUAL

KOMATSU®

PC75UU-2

MACHINE MODEL	SERIAL No.
PC75UU-2	**5001 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.

- PC75UU-2 mount the 4D95L-1 engine.
  For details of the engine, see the 95 Series Engine Shop Manual.

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SPECIFICATIONS

Machine model				PC75UU-2	
Serial Number				5001 – 10370	
Specifications				Cab specification	Canopy specification
	Cab specification		kg	7,750[7,850]	7,600[7,700]
	Bucket capacity		m^3	0.28	0.28
Performance	Working ranges	Max. digging depth	mm	4,200	4,200
		Max. vertical wall depth	mm	3,040	3,040
		Max. digging reach	mm	6,360	6,360
		Max. reach at ground level	mm	6,290	6,290
		Max. digging height	mm	7,160	7,160
		Max. dumping height	mm	5,050	5,050
		Bucket offset (left/right)	mm	1,075/1,020	1,075/1,020
		Max. blade lifting height	mm	415	415
		Max. blade lowering depth	mm	210	210
	Max. digging force		kN {kg}	48.1 {4,900}	48.1 {4,900}
	Swing speed		rpm	8.5	8.5
	Max. slope angle for swing		deg.	13	13
	Travel speed		km/h	3.5	3.5
	Gradeability		deg.	35	35
	Ground pressure (shoe width: 450mm)		kPa {kg/cm²}	34.3 {0.35}	34.3 {0.35}
Dimensions	Overall length (for transport)		mm	6,030	6,030
	Overall width		mm	2,320	2,320
	Overall height (for transport)		mm	2,700	2,685
	Overall height		mm	2,700	2,685
	Ground clearance of counterweight		mm	817	817
	Min. ground clearance		mm	360	360
	Tail swing radius		mm	1,150	1,150
	Min. swing radius of work equipment		mm	1,150	1,150
	Height of work equipment at min. swing radius		mm	5,500	5,500
	Length of track on ground		mm	2,220[2,205]	2,220[2,205]
	Track gauge		mm	1,870	1,870
	Overall length of track		mm	2,865[2,835]	2,865[2,835]
	Blade width x height		mm	2,320X470	2,320X470

Figures in [ ] : Steel shoe specification

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Machine model			PC75UU-2	
Serial Number			5001 – 10370	
Specifications			Cab specification	Canopy specification
Engine	Model		4D95L-1	4D95L-1
	Type		4-cycle, water-cooled, vertical, direct injection	4-cycle, water-cooled, vertical, direct injection
	No. of cylinders – bore x stroke	mm	4 – 95 × 115	4 – 95 × 115
	Piston displacement	ℓ (cc)	3.260(3,260)	3.260(3,260)
	Firing order		1 – 2 – 4 – 3	1 – 2 – 4 – 3
	Flywheel horsepower	kW (HP)/rpm	40 (54.2)/1,900	40 (54.2)/1,900
	Max. torque	Nm (kgm) /rpm	225(23)/1,500	225(23)/1,500
	Max. speed at no load	rpm	2,100	2,100
	Min. speed at no load	rpm	900	900
	Min. fuel consumption	g/kWh (g/HPh)	218 {162}	218 {162}
	Starting motor		24V, 2.8kW	24V, 2.8kW
	Alternator		24V, 15A	24V, 15A
	Battery		12V, 65Ah × 2	12V, 65Ah × 2
	Radiator core type		CD-3	CD-3
Under-carriage	Carrier roller		1 on each side	
	Track roller		5 on each side	
	Track shoe		Road liner (39 each side)	
Hydraulic system	Hydraulic pump: Type x no.		Tandem piston type + Gear type x 1	
	Hydraulic pump: Discharge	ℓ/min	78 x 2 + 44, 11	
	Hydraulic pump: Set pressure for work equipment, swing, travel	MPa {kg/cm²}	24.5 {250} (Bucket dump: 22.5 {230})	
	• Offset, blade	MPa {kg/cm²}	20.5 {210}	
	• Control	MPa {kg/cm²}	2.9 {30}	
	Control valve: Type x no.		4-spool x 1, 3-spool x 2	
	Control valve: Control method		Hydraulically assisted + travel and blade	
	Hydraulic motor: Travel motor		Piston type (with reduction gear, counter-balance valve, parking brake) × 2	
	Hydraulic motor: Swing motor		Piston type (with brake valve, parking brake) × 1	
	Hydraulic cylinder		Double-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				PC75UU-2	
Serial Number				10371 and up	
Specifications				Cab specification	Canopy specification
Cab specification			kg	7,650[7,750]	7,500[7,600]
Bucket capacity			m^3	0.28	0.28
Performance	Working ranges	Max. digging depth	mm	4,200	4,200
		Max. vertical wall depth	mm	3,040	3,040
		Max. digging reach	mm	6,360	6,360
		Max. reach at ground level	mm	6,290	6,290
		Max. digging height	mm	7,160	7,160
		Max. dumping height	mm	5,050	5,050
		Bucket offset (left/right)	mm	1,075/1,020	1,075/1,020
		Max. blade lifting height	mm	415	415
		Max. blade lowering depth	mm	210	210
	Max. digging force		kN {kg}	48.1 {4,900}	48.1 {4,900}
	Swing speed		rpm	8.5	8.5
	Max. slope angle for swing		deg.	13	13
	Travel speed		km/h	Low: 3.5/High: 4.2 [Low: 3.2/High: 3.9]	Low: 3.5/High: 4.2 [Low: 3.2/High: 3.9]
	Gradeability		deg.	35	35
	Ground pressure (shoe width: 450mm)		kPa {kg/cm^2}	34.3 {0.35}	34.3 {0.35}
Dimensions	Overall length (for transport)		mm	6,030	6,030
	Overall width		mm	2,320	2,320
	Overall height (for transport)		mm	2,700	2,685
	Overall height		mm	2,700	2,685
	Ground clearance of counterweight		mm	817	817
	Min. ground clearance		mm	360	360
	Tail swing radius		mm	1,150	1,150
	Min. swing radius of work equipment		mm	1,150	1,150
	Height of work equipment at min. swing radius		mm	5,500	5,500
	Length of track on ground		mm	2,220[2,205]	2,220[2,205]
	Track gauge		mm	1,870	1,870
	Overall length of track		mm	2,865[2,835]	2,865[2,835]
	Blade width x height		mm	2,320X470	2,320X470

Figures in [ ] : Steel shoe specification

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TABLE OF FAILURE MODES AND CAUSES

	Parts causing failure / Failure mode		Main pump: Main pump	Main pump: Locknut for setting horsepower	Charging pump: Pump	Charging pump: Relief valve	Strainer	Control valve: Valve proper	Control valve: Main relief valve	Control valve: Safety valve	Control valve: Suction valve	Control valve: Spool	Linkage (cable)	PPC valve	Swivel joint	Solenoid valve, EPC valve: PPC lock	Solenoid valve, EPC valve: Swing brake	Solenoid valve, EPC valve: Boom LOWER stop	Solenoid valve, EPC valve: Left offset stop	Solenoid valve, EPC valve: Boom RAISE stop	Solenoid valve, EPC valve: Arm IN stop	Swing motor: Motor proper	Swing motor: Internal leakage	Swing motor: Safety valve	Swing motor: Suction valve	Swing motor: Brake	Travel motor: Motor proper	Travel motor: Internal leakage	Travel motor: Counterbalance valve	Travel motor: Brake	Travel motor: Final drive	Swing machinery	Hydraulic cylinder	Lift check valve	Engine system	Troubleshooting code
All work equipment, travel, swing	**Speeds of all work equipment, swing, travel are slow**		○	○					○							○																		○	**H- 1**
	There is excessive drop in engine speed, or engine stalls			○																														○	H- 2
	No work equipment, swing, travel move		○		○	○			○							○																			**H- 3**
	All work equipment, swing, travel lack power		○	○	○	○			○							○																		○	H- 4
	Abnormal noise generated		○				○																												**H- 5**
Work equipment system	Work equipment speed is slow											○		○				○	○	○	○														H- 6
	Work equipment lacks power									○		○		○				○	○	○	○														**H- 7**
	Work equipment does not move											○		○				○	○	○	○														H- 8
	Excessive hydraulic drift									○	○	○																				○			**H- 9**
	Excessive time lag										○																								H-10
Travel system	Travel deviation: **Deviates in same direction in forward and reverse**		○	○			○	○	○			○	○		○												○	○		○	○				H-11
	Travel deviation: Deviates in different direction is forward and reverse														○																				
	Travel deviation: **Excessive deviation when starting**			○							○		○																	○					H-12
	Travel lacks power (or speed is slow)		○						○				○															○					○	H-13
	Travel does not move (one side only)												○															○		○	○				**H-14**
	Travel lever is heavy											○	○																						H-15
Swing system	Does not swing	**Both left and right**										○	○	○		○					○				○						○				H-16
		One side only												○								○													
	Swing speed is slow or acceleration is poor	**Both left and right**										○										○			○										H-17
		One side only												○								○													
	Excessive overrun when stopping swing	**Both left and right**																				○													H-18
		One side only																				○													
	Excessive shock when stopping swing	**Both left and right**														○									○						○				H-19
		One side only																				○													
	Excessive abnormal noise when stopping swing	**Both left and right**																													○		○		H-20
		One side only																				○	○												
	Excessive hydraulic drift of swing											○										○		○											**H-21**

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