SEBM020S0707

SHOP MANUAL

KOMATSU®

PC25-1 PC30-7 PC40-7 PC45-1

MACHINE MODEL	SERIAL No.
PC25-1	1001 and up
PC30-7	18001 and up
PC40-7	18001 and up
PC45-1	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.
- PC25-1 and PC30-7 mount the 3D84-3 engine,
  PC40-7 and PC45-1 mount the 4D84-3 engine;
  For details of engine, see the 84 Series Engine Shop Manual.

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TABLE OF FAILURE MODES AND CAUSES

★ Applicable to PC30, 45 only

	Part causing failure / Failure mode		Main pump		Control pump		Strainer	Control valve					Linkage (cable)	PPC valve	Swivel joint	Solenoid valve		Swing motor					Travel motor					Swing machinery	Hydraulic cylinder	Lift check valve	Engine system	Troubleshooting code
			Body	Locknut for setting horsepower ★	Body	Relief valve		Body	Main relief valve	Safety valve	Suction valve	Spool				PPC lock	Travel speed acceleration	Body	Internal leakage	Safety valve	Suction valve	Brake	Body	Internal leakage	Safety valve	Brake valve	Final dirve					
All work equipment, travel, swing	**All work equipment, travel, and swing speeds are slow**		○	○					○																					○	H- 1
	Engine stalls or speed drops excessively		○	○					○																					○	H- 2
	Nothing moves				○																											H- 3 (a)
	Speed is extremely slow (when the speed is far outside the permitted range)		○		○	○										○																
	Travel speed is normal or drop in speed is comparatively small				○											○																H- 3 (b)
	All work equipment, travel, and swing lack power		○	○					○																					○	H- 4
	Abnormal noise is generated		○				○																									H- 5
Work equipment system	Work equipment (boom, arm, bucket) speeds are slow									○	○	○		○															○			H- 6
	Work equipment (boom, arm, bucket) lacks power									○	○	○		○																		H- 7
	Excessive hydraulic drift									○	○	○		○															○			H- 8
	Excessive time lag										○																					H- 9
Travel system	Travel deviation: Deviates in same direction in both forward and reverse		○	○				○	○			○	○		○									○			○					H-10 (a)
	Travel deviation: **Deviates in different directions for forward and reverse**											○			○										○							H-10 (b)
	Travel deviation: Excessive deviation when starting											○			○									○								H-11
	Lacks power when traveling (or speed is slow)		○	○					○			○	○																	○	H-12
	Travel speed does not switch																○							○								H-13
	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
	Excessive hydraulic drift of boom swing									○	○	○																				H-22

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