EEBM000403

SHOP MANUAL

KOMATSU®

PW130-6K

MACHINE MODEL SERIAL NUMBER

PW130-6K K30001 and up

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JUDGEMENT TABLE FOR PUMP CONTROLLER AND HYDRAULIC RELATED PARTS

Figure in ○ shows position of bit pattern

Failure mode			Abnormality in pump controller power source system	Pump controller (E2:XX system) Self-diagnostic display: Short circuit in TVC solenoid system	Disconnection in TVC solenoid system	Short circuit in swing brake solenoid system	Disconnection in swing brake solenoid system	Short circuit in 2-stage relief solenoid system	Short circuit in travel speed solenoid system	Disconnection in 2-stage relief solenoid system	Disconnection in travel speed solenoid system	Network response overtime error	Short circuit in LS control EPC solenoid system	Disconnection in LS control EPC solenoid system	Abnormality pump pressure sensor system	Abnormality in pump pressure sensor power source system	Abnormality in engine speed sensor system	Abnormality in auto-deceleration output system	Checking monitoring, check items: Oil pressure switch: Swing (Bit No. ①)	Travel (Bit No. ②)	Boom LOWER (Bit No. ③)	Boom RAISE (Bit No. ④)	Arm IN (Bit No. ⑤)	Arm OUT (Bit No. ⑥)	Bucket CURL (Bit No. ①)	Bucket DUMP (Bit No. ②)	Swing lock switch (Bit No. ③)	Model code	Engine speed input	Pump discharge pressure signal	TVC output signal	LS control EPC signal	No. 2 throttle signal	Speed select mode (Bit No. ⑤)	L.H. knob switch (Bit No. ⑥)	Actuation of solenoid: Swing brake (Bit No. ③)	2-stage relief (Bit No. ⑤)	Travel speed (Bit No. ⑥)	Is red range displayed? 102°C or above	105°C or above	Is voltage for engine coolant temperature normal? Monitoring code	Troubleshooting code if no service code is displayed
	User code		—	E02		E03		—											Monitoring code																					
	Service code		—	E2:32	E2:33	E2:03	E2:13	E2:05	E2:06	E2:15	E2:16	E2:18	E2:22	E2:23	E2:24	E2:26	E2:27	E2:28	20						21		02	10	11	13	15	16	22	23				Coolant temperature gauge		41	
All work equipment, travel, swing	Speeds of all work equipment, swing, travel are slow or lack power			●	●									●			●											○	※	※		※		○				○	○	○	H – 1
	There is excessive drop in engine speed, or engine stalls			●	●																							○		※											H – 2
	No work equipment, travel, swing move																																								H – 3
	Abnormal noise generated (around pump)																																								H – 4
	Auto-deceleration does not work		●																	○	○	○	○	○	○	○	○		○													H – 5
	Fine control ability is poor or response is poor																																								H – 6
Work equipment	Boom is slow or lacks power																					○	○						※												H – 7
	Arm is slow or lacks power																							○	○				※												H – 8
	Bucket is slow or lacks power																									○	○		※												H – 9
	Boom does not move																																								H – 10
	Arm does not move																																								
	Bucket does not move																																								
	Excessive hydraulic drift																																								H – 11
	Excessive time lag (engine at low idling)																					○		○		○				※											H – 12
	Lack of power when pressure rises													●						○		○	○	○					※					○		※					H – 13
	Other equipment moves when single circuit is relieved							●		●																															H – 14
	In G/O mode, work equipment speed is faster than specified speed																													※											H – 15
Compound operations	In compound operations, work equipment with larger load is slow												●	●																												H – 16
	In swing + boom RAISE, boom is slow																																								H – 17
	In swing + travel, travel speed drops excessively																			※	※																					H – 18
	In work equipment (boom RAISE) + travel, travel speed drops excessively																				※		※																			H – 19
Travel system	Travel speed is slow																				○									※											H – 21
	Travel speed does not switch or is faster than specified speed		●						●		●	●	●	●	●	●					○							○	※	※					※		○	○			H – 23
Swing system	Does not swing	Both left and right				●	●													○						○			※					※							H – 25
		One direction only																																								
	Swing acceleration is poor	Both left and right																											※												H – 26
		One direction only																											※												
	Excessive overrun when stopping swing	Both left and right																																							H – 27
		One direction only																																							
	Excessive shock when stopping swing (one direction only)																																								H – 28
	Excessive abnormal noise when stopping swing																																								H – 29
	Excessive hydraulic drift of swing	When brake is ON				●													※							○								※							H – 30
		When brake is OFF																																							
	Swing speed is faster than specified swing speed												●	●																												H – 31
Troubleshooting code when service code is displayed			C-1	C-2	C-3	C-4	C-5	C-6		C-7		C-9	C-10	C-11	C-12	C-13	C-14	C-15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Troubleshooting code when there is abnormality in monitoring check			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	—	F-10	—	—	—	F-11	F-12	—	—	—	M-13	M-14		

●: This shows applicable item for service code ○: This shows item to check with monitoring mode or machine monitor
※: This shows item that needs only checking with monitoring mode

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