VEBM440100

SHOP MANUAL

WA380-6H

KOMATSU®

MACHINE MODEL

WA380-6H

SERIAL NUMBER

H60051 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.
- WA380-6H mounts the SAA6D107E-1 engine.

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1. Main relief valve
2. Spool (ECSS control)
3. Spool (Lift arm)
4. Spool (Bucket)
5. Spool (Service)

Unit: mm

No.	Check item	Criteria					Remedy
		Standard size			Repair limit		
		Free length x Outside diameter	Installed length	Installed load	Free length	Installed load	
6	Spool return spring (Service)	45.6 x 28	43	230 N {23.5 kg}	—	184 N {18.8 kg}	If damaged or deformed, replace spring
7	Spool return spring (Bucket)	47.8 x 27.4	45	125 N {12.7 kg}	—	100 N {10.2 kg}	
8	Spool return spring (Lift arm)	50.2 x 36	47	136 N {13.9 kg}	—	109 N {11.1 kg}	
9	Spool return spring (Lift arm)	53.2 x 17.2	36.8	263 N {26.8 kg}	—	210 N {21.4 kg}	
10	Spool return spring (Bucket)	47.1 x 27.4	45	114 N {11.6 kg}	—	91 N {9.28 kg}	
11	Spool return spring (Lift arm)	56.6 x 25.5	54	162 N {16.51 kg}	—	129 N {13.2 kg}	
12	Piston return spring (Lift arm)	77.1 x 34.7	21	55.9 N {5.7 kg}	—	44.7 N {4.56 kg}	
13	Spool return spring (ECSS)	61.3 x 28	45	83.6 N {8.52 kg}	—	66.9 N {6.82 kg}	

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Troubleshooting by failure code (Display of code), Part 3

Failure code [CA234] (Engine overspeed)

Action code	Failure code	Trouble	Engine Overspeed (Engine controller system)
E02	**CA234**		
Contents of trouble	• Engine speed is above upper control limit.		
Action of controller	• Stops injection of injector until engine speed drops to normal level. • Turns the centralized warning lamp and alarm buzzer ON.		
Problem that appears on machine	• Engine speed fluctuates.		
Related information	• Engine speed can be checked by monitoring function (Code: 01001, ENG SPEED, Code: 01002, ENG SPEED). • Method of reproducing failure code: Start engine and running at high idle.		

		Causes	Standard value in normal state/Remarks on troubleshooting
Possible causes and standard value in normal state	1	Use of improper fuel	Check fuel used directly.
	2	Improper way of use	Way of use may be improper. Teach proper way of use to operator.
	3	Defective engine controller	If causes 1 and 2 are not detected, engine controller may be defective. (Since trouble is in system, troubleshooting cannot be carried out.)

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	Causes		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	6	Ground fault in wiring harness (Contact with ground circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between J16 (female) (2) – S02 (female) (6) and chassis ground	Resistance	Max. 1 Ω
			Wiring harness between S02 (female) (5) – L128 (female) (1) and chassis ground	Resistance	Max. 1 Ω
			Wiring harness between fuse No. 7 of fuse box B – L128 (female) (3) and chassis ground	Resistance	Max. 1 Ω
			Wiring harness between L128 (female) (5) – G04 (female) (2), – G05 (female) (2), – circuit branch end and chassis ground	Resistance	Max. 1 Ω
	7	Hot short in wiring harness (Contact with 24V circuit)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting. • Front working lamp switch turned off		
			Wiring harness between J16 (female) (2) – S02 (female) (6) and chassis ground	Voltage	Max. 1 V
			Wiring harness between S02 (female) (5) – L128 (female) (1) and chassis ground	Voltage	Max. 1 V
			Wiring harness between fuse No. 7 of fuse box B – L128 (female) (3) and chassis ground	Voltage	Max. 1 V
			Wiring harness between L128 (female) (5) – G04 (female) (2), – G05 (female) (2), – circuit branch end and chassis ground	Voltage	Max. 1 V

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Electrical diagrams and drawings

Electrical circuit diagram (1/2)

CAB AND FLOOR



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