SEN04885-04

Shop Manual

WHEEL LOADER

WA150-6

SERIAL NUMBERS 80001 and up

ecot3

KOMATSU®

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Composition of shop manual

The contents of this shop manual are shown together with Form No. in a list.

Note 1: Always keep the latest version of this manual in accordance with this list and utilize accordingly.
The marks shown to the right of Form No. denote the following:
○: New issue (to be filed additionally) ●: Revision (to be replaced for each Form No.)

Note 2: This shop manual can be supplied for each Form No.

Note 3: To file this shop manual in the special binder for management, handle it as follows:
- Place a divider on the top of each section in the file after matching the Tab No. with No. indicated next to each Section Name shown in the table below:
- File overview and other materials in sections in the order shown below and utilize them accordingly.

Section Title	Form Number	
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100 Index	SEN05072-04	●
200 Foreword and general information	SEN05073-00	
01 Specification	SEN05065-00	
100 Specification and technical data	SEN05074-00	
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1. Main relief valve
2. Service spool
3. Bucket spool
4. ECSS spool
5. Lift arm spool
6. Suction safety valve
7. Check valve
8. Suction valve
9. EPC valve
10. Accumulator charge valve

Unit: mm

No.	Item	Criteria					Remedy
		Standard size			Repair limit		
11	Spool return spring	Free length x Outside diameter	Installed length	Installed load	Free length	Installed load	If damaged or deformed, replace spring
		42 x 27.5	41	72.6 N {7.4 kg}	—	58.1 N {5.92 kg}	
12	Spool return spring	61.3 x 28	45	83.6 N {8.52 kg}	—	66.9 N {6.82 kg}	
13	Spool return spring	42.53 x 27.5	41	92.2 N {9.4 kg}	—	73.8 N {7.52 kg}	
14	Spool return spring	58.87 x 26.3	57.3	55.9 N {5.7 kg}	—	44.7 N {4.56 kg}	
15	Spool return spring	53.35 x 12	38.5	111 N {11.3 kg}	—	88.7 N {9.04 kg}	
16	Check valve spring	39.5 x 11.2	25	29.4 N {3 kg}	—	23.5 N {2.4 kg}	
17	Check valve spring	41.5 x 8.5	31.5	5.88 N {0.6 kg}	—	4.71 N {0.48 kg}	
18	Valve spring	19.15 x 7.2	16.05	19.6 N {2.0 kg}	—	15.7 N {1.6 kg}	

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Failure code [CA111] Abnormality in engine controller

Action code	Failure code	Trouble	Abnormality in engine controller (Engine controller system)
E03	CA111		
Contents of trouble	• Abnormality occurred in memory of engine controller or power supply circuit.		
Action of controller	• Turns the centralized warning lamp and alarm buzzer ON.		
Problem that appears on machine	• The engine does not start.		
Related information	• Method of reproducing failure code: Start engine		

	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective fuse FS1 (4)	If fuse is broken, circuit probably has ground fault. (Refer to cause 4)		
	2	Defective power supply cut-out relay	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between EC2 (female) (55) – (32)	Resistance	185 – 265 Ω
	3	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between EC2 (female) (55) – L107 (female) (1)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (55) – L108 (female) (1)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (32) – L107 (female) (2)	Resistance	Max. 1 Ω
			Wiring harness between EC2 (female) (32) – L108 (female) (2)	Resistance	Max. 1 Ω
			Wiring harness between EC3 (female) (1) – E14	Resistance	Max. 1 Ω
			Wiring harness between EC3 (female) (3) – L107 (female) (5)	Resistance	Max. 1 Ω
			Wiring harness between EC3 (female) (3) – L108 (female) (5)	Resistance	Max. 1 Ω
			Wiring harness between L107 (female) (3) – battery (+)	Resistance	Max. 1 Ω
			Wiring harness between L108 (female) (3) – battery (+)	Resistance	Max. 1 Ω

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Failure code [CA757] All continuous data lost error

Action code	Failure code	Trouble	All continuous data lost error (Engine controller system)
E03	**CA757**		
Contents of trouble	• All data in engine controller are lost.		
Action of controller	• Turns the centralized warning lamp and alarm buzzer ON.		
Problem that appears on machine	• Engine stops and sometimes cannot be started. • The monitoring function of the machine monitor (engine controller system) sometimes fail to work normally.		
Related information	• Method of reproducing failure code: Turn the starting switch ON.		

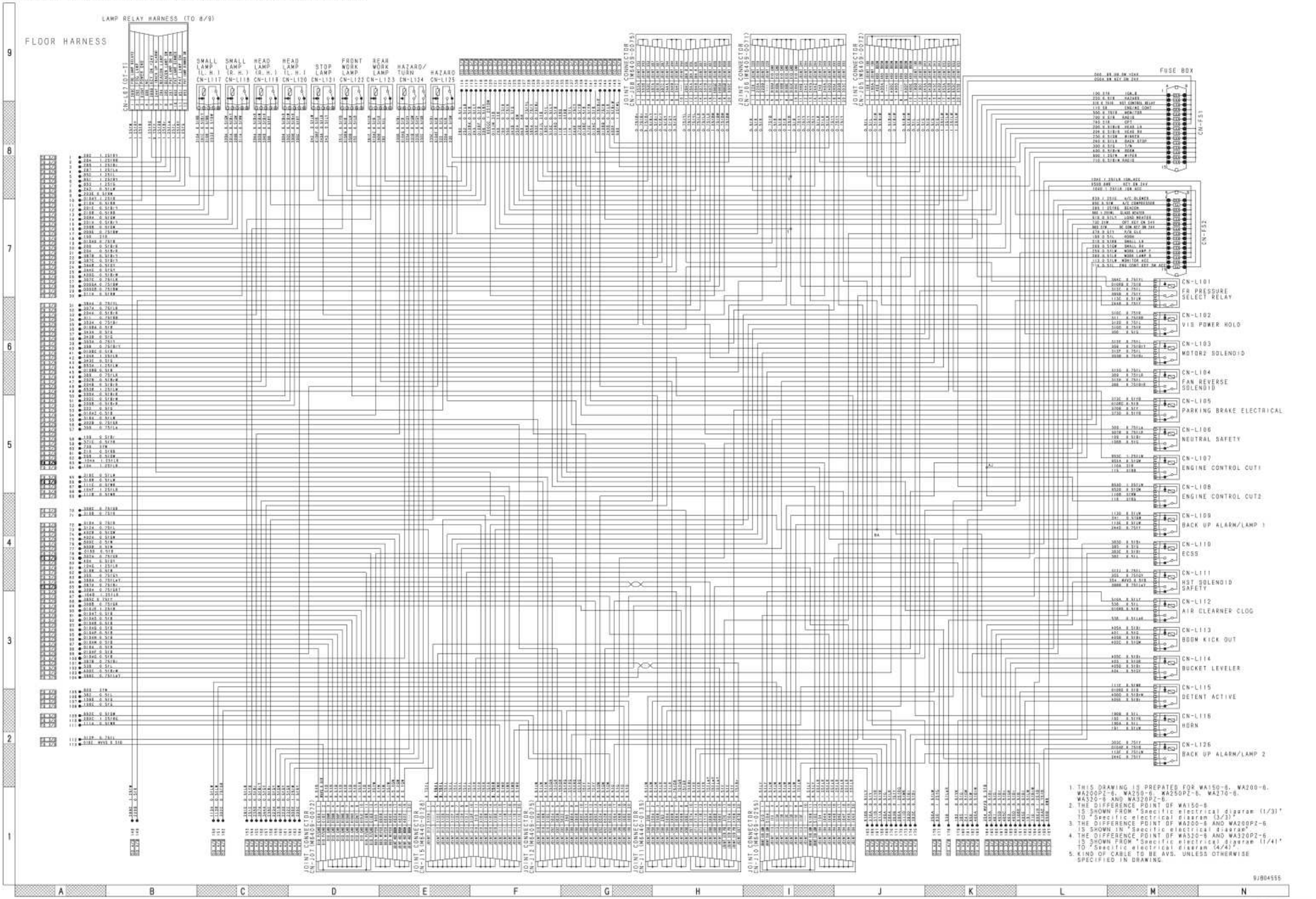
Possible causes and standard value in normal state	Cause	Standard value in normal state/Remarks on troubleshooting
	Carry out troubleshooting for failure code [**CA111**].	

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Common electrical circuit diagram (1/9)

WA150-6, WA200-6, WA200PZ-6, WA250-6, WA250PZ-6, WA320-6, WA320PZ-6

★ This figure covers the equipment and devices that are unavailable as optional items in some areas.



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