SEBM027901

SHOP MANUAL

KOMATSU®

BR480RG-1

MACHINE MODEL	SERIAL NUMBER
BR480RG-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.

- BR480RG-1 mounts the SAA6D125E-2-A engine.
  For details of the engine, see the 125-2 Series Engine Shop Manual.

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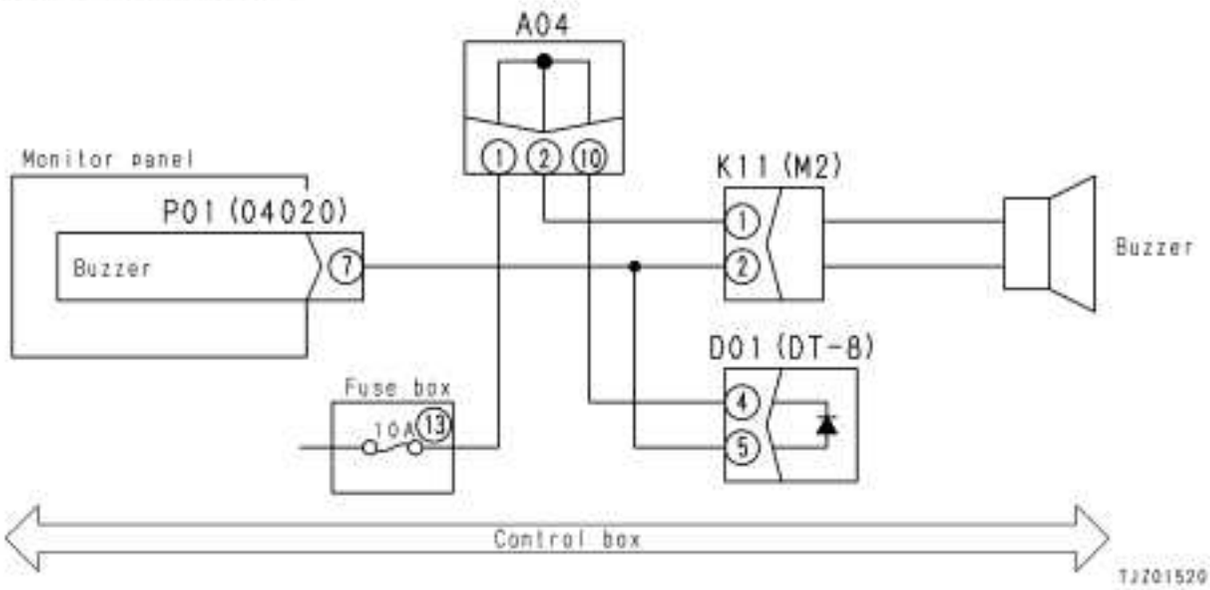
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ERROR CODE [E103] (SHORT CIRCUIT IN BUZZER OUTPUT OR SHORT CIRCUIT WITH POWER SOURCE IN BUZZER DRIVE WIRING HARNESS)

User Code	Failure Code	Error Code	Failure phenomenon	Short circuit in buzzer output or short circuit with power source in buzzer drive wiring harness
—	—	E103		
Failure content	The buzzer does not sound.			
Response from controller	—			
Phenomenon occurring on machine	The buzzer does not sound.			
Relative information	• If the starting switch was turned off after the abnormality occurred, turn the starting switch on and check that "E" is attached to the error code. (If "E" is not displayed, the condition has returned to normal.)			

		Cause	Standard values in normacy and references for troublshooting		
Presumed cause and standard value in normalcy	1	Short circuit with power source in wiring harness	★ Prepare with starting switch OFF, disconnect connectors P01 and K11, turn starting switch ON, then carry out troubleshooting.		
			Between P01 (female) (7) and K11 (female) (2)	Voltage	Max. 1 V
	2	Defective buzzer	★ Prepare with starting switch OFF, then disconnect connector K11 and carry out troubleshooting with starting switch kept OFF.		
			Between K11 (male) (1) and (2)	Resistance value	200 – 300 Ω
			Between K11 (male) (2) and ground	Resistance value	Min. 1 MΩ
	3	Defective monitor panel	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			Between P01 (7) and ground	Operation	Voltage
				Turn buzzer ON.	Max. 1 V
				Turn buzzer OFF.	20 – 30 V

Related circuit diagram



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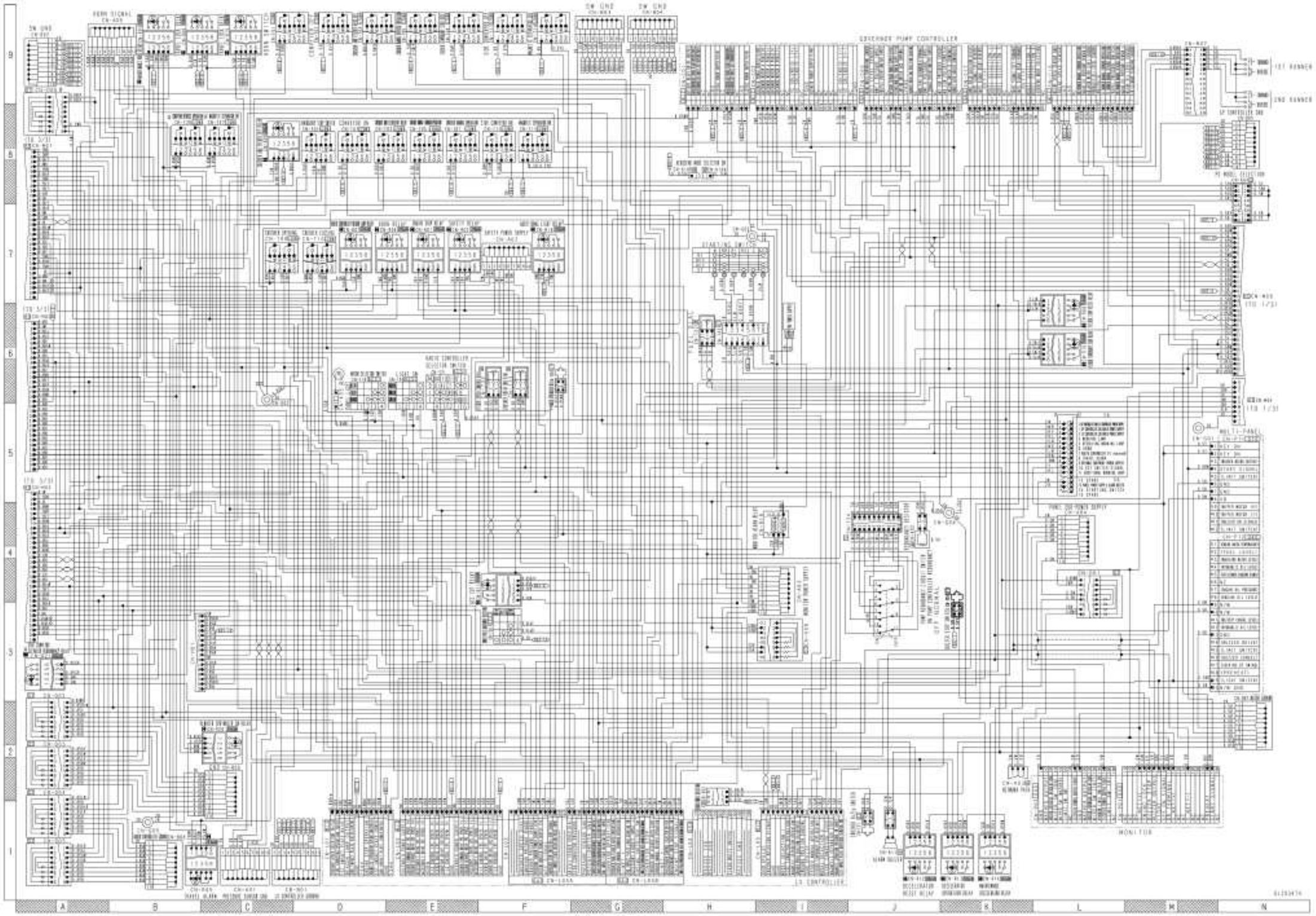
FAILURE CODE [7REDKX] OR ERROR CODE [E316] (ABNORMALITY IN PRIMARY CONVEYOR PRESSURE SENSOR)

User Code	Failure Code	Error Code	Failure phenomenon	Abnormality in primary conveyor pressure sensor (Work equipment controller system)
—	7REDKX	E316		
Failure content	• The signal voltage from the primary conveyor pressure sensor is below 0.3 V or above 4.7 V.			
Response from controller	• Judges that the primary conveyor pressure is 0 (there is no load). • If the cause of the failure disappears, the system resets itself.			
Phenomenon occurring on machine	• Even if primary conveyor is overloaded, any work equipment does not stop. (Primary conveyor, crusher, feeder, side conveyor, and magnetic separator) • When the failure is detected, the horn sounds (3 times intermittently).			
Relative information	• Input condition (ON/OFF) from the primary conveyor pressure sensor can be checked with the monitoring function.			

	Cause		Standard value in normalcy and references for troubleshooting		
Presumed cause and standard value in normalcy	1	Defective primary conveyor pressure sensor (Internal defect)	★ Prepare with starting switch OFF, then start engine for troubleshooting. ★ When results of steps 2 to 4 are normal.		
			S43	Voltage	
			Between (A) and (B)	18 – 30 V	
			Between (A) and (C)	0.3 – 4.7 V	
	2	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Carry out troubleshooting with starting switch OFF. ★ Disconnect L03A and S43.		
			Wiring harness between L03A (female) (4) and S43 (female) (C)	Resistance value	Max. 1 Ω
			Wiring harness between L03A (female) (16), A01, and S43 (female) (A)	Resistance value	Max. 1 Ω
			Wiring harness between L03A (female) (6), A17, and S43 (female) (B)	Resistance value	Max. 1 Ω
	3	Short circuit with chassis ground in wiring harness (Contact with ground circuit)	★ Carry out troubleshooting with starting switch OFF. ★ Disconnect L03A and S43.		
			Between wiring harness between L03A (female) (4) and S43 (female) (C) and ground	Resistance value	Min. 1 MΩ
	4	Short circuit with power source in wiring harness (Contact with 24 V circuit)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting. ★ Disconnect L03A and S43.		
			Between wiring harness between L03A (female) (4) and S43 (female) (C) and ground	Voltage	Max. 1 V
			Between wiring harness between L03A (female) (6) and S43 (female) (B) and ground	Voltage	Max. 1 V
	5	Defective work equipment controller	★ Prepare with starting switch OFF, then start engine for troubleshooting.		
			L03A	Voltage	
			Between (16) and (6)	18 – 30 V	
			Between (16) and (4)	0.3 – 4.7 V	

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ELECTRICAL CIRCUIT DIAGRAM (2/3)



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