SEN02602-06

Shop Manual

MOBILE CRUSHER **BR580JG-1**

SERIAL NUMBERS 1001 and up

ecot3

KOMATSU®

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Weight table

⚠ **This weight table is a reference for handling and transportation of components.**

Unit: kg

Machine model	BR580JG-1
Serial Number	1001 and up
Engine assembly	1,660
• Engine	1,314
• Damper	14.7
• Hydraulic pump	210
Radiator and oil cooler assembly	197
Hydraulic tank and filter assembly (Excluding hydraulic oil)	205
Fuel tank assembly (Excluding fuel)	256
Main frame	660
Rear cover	180
Control valve	251
Travel motor	164 × 2
Crusher motor	127
Primary conveyor motor assembly	62
Grizzly feeder motor	41
Track frame assembly	8,894
• Track frame	6,064
• Idler	169 × 2
• Idler cushion	275 × 2
• Track roller	54 × 14
• Final drive (Including travel motor)	593 × 2
Track shoe assembly	
• Standard triple shoe (500 mm)	3,142
Hopper	2,712
Grizzly feeder assembly	4,059
Crusher assembly	18,476
Primary conveyor assembly	2,884
Magnetic separator assembly (If equipped)	1,200

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Contents of troubleshooting table

★ The following information is summarized in the troubleshooting table and the related electrical circuit diagram. Before carrying out troubleshooting, understand that information fully.

User code	Failure code	Trouble	
Machine monitor display	**Machine monitor display**		**Names of the failure symptoms displayed in the failure history on the machine monitor**
Contents of trouble	**State where the machine monitor or controller detects the trouble**		
Action of controller	**Action to be taken to protect the system and equipment when the machine monitor or controller detects a trouble**		
Problem that appears on machine	**Problem that appears as an abnormality in the machine by the action (above) taken by monitor or controller**		
Related information	**Information related to troubles occurred or troubleshooting**		

	Cause		Standard value in normal state/Remarks on troubleshooting
Possible causes and standard value in normal state	1 2 3 4	Cause by which a trouble is assumed to be detected (The order number indicates a serial number, not a priority sequence.)	**<Described contents>** **• Standard value when normal required to judge the possible cause** **• Remarks required to judge whether any cause is right or not** **<Symptoms of defective harness>** **• Disconnection in wiring** **The connector connection is defective or the wiring harness is disconnected.** **• Defective grounding** **A harness not connected to GND (ground) circuit comes into contact with the GND (ground) circuit.** **• Hot short defect** **A harness not connected to the electric power supply (24V) circuit comes into contact with the electric power supply (24V) circuit.** **• Short circuit** **A harness abnormally comes into contact with a harness of separate circuit.** **<Points to remember when troubleshooting>** **(1) Method of indicating connector numbers and handling T-adapter** **For troubleshooting, insert or connect the T-adapter as described below unless especially specified.** **• When "male" or "female" is not indicated for a connector number, disconnect the connector, and insert the T- adapter in both the male and female.** **• When "male" or "female" is indicated for a connector number, disconnect the connector, and insert the T-adapter in only either the male or female.** **(2) Pin number description sequence and tester lead handling** **For troubleshooting, connect the plus (+) and minus (–) leads of the tester as described below unless especially specified.** **• Connect the plus (+) lead to a pin number or harness indicated in the front.** **• Connect the minus (–) lead to a pin number or harness indicated in the rear.**

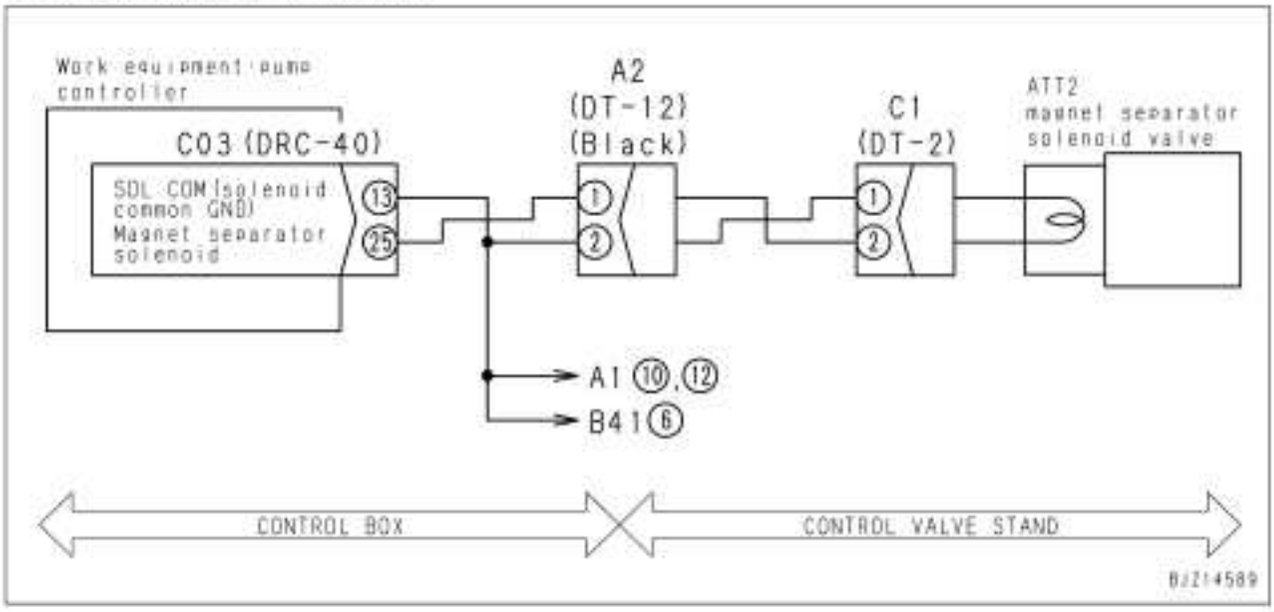
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Failure code [7RJLKB] Short circuit in magnetic separator EPC valve

User code	Failure code	Trouble	Short circuit in magnetic separator EPC valve (Work equipment and pump controller (work equipment control) system)
—	**7RJLKB**		
Contents of trouble	• When the magnetic separator EPC valve is driven, ground short circuit is detected.		
Action of controller	• Turns the output to the magnetic separator EPC valve OFF. • Even if cause of failure disappears, system does not reset itself until engine starting switch is turned OFF.		
Problem that appears on machine	• The magnetic separator does not work. • Horn sounds (three intermittent sounding) upon detecting a failure.		
Related information	• The driven state (ON/OFF) of the magnetic separator EPC valve can be checked with the monitoring function (Code: **25708**, Magnetic Separator EPC) • Since the controller detects the ground short circuit while the magnetic separator EPC valve is driven, be sure to turn the solenoid output ON when checking reproduction of the failure after repair. • The failure history is recorded.		

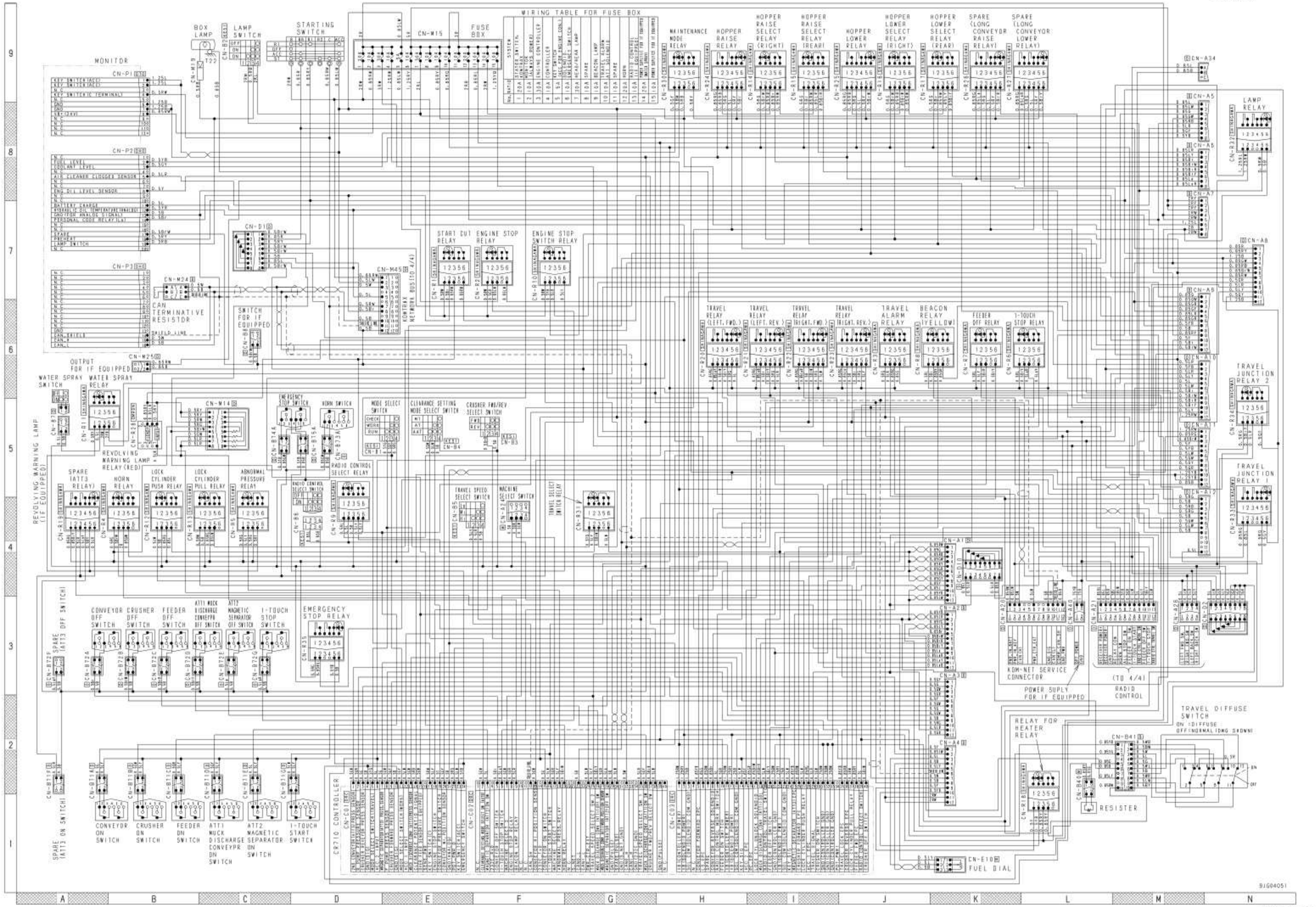
	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective magnetic separator EPC valve (Internal short circuit)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.		
			C1 (male)	Resistance	
			Between (1) and (2)	20 – 60 Ω	
	2	Grounding fault in wiring harness (Contact with ground circuit)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.		
			Wiring harness between C03 (female) (25) – A2 – C1 (female) (2) and chassis ground	Resistance	Min. 1 MΩ
	3	Defective work equipment and pump controller	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.		
			C03 (female)	Resistance	
			Between (25) and chassis ground	20 – 60 Ω	

Related electrical circuit diagram



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Electrical circuit diagram (1/4)



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