SEN01341-08

Shop Manual

MOBILE CRUSHER **BR380JG-1E0**

SERIAL NUMBERS 2001 and up

ecot3

KOMATSU®

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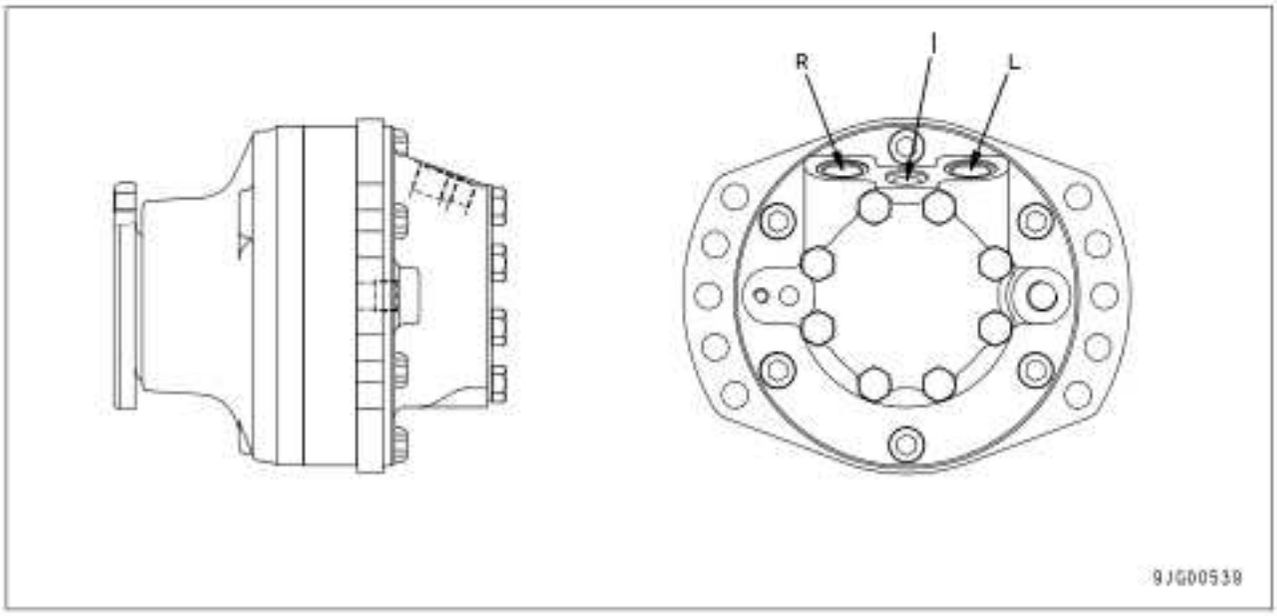
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Conveyor motor



R: From control valve
L: From control valve
1: To hydraulic tank

Specifications

Model:	MSE02-2-123-R02-1240-K000
Theoretical delivery:	398 cc/rev
Max. pressure:	34.3 MPa {350 kg/cm²}
Max. speed:	165 rpm

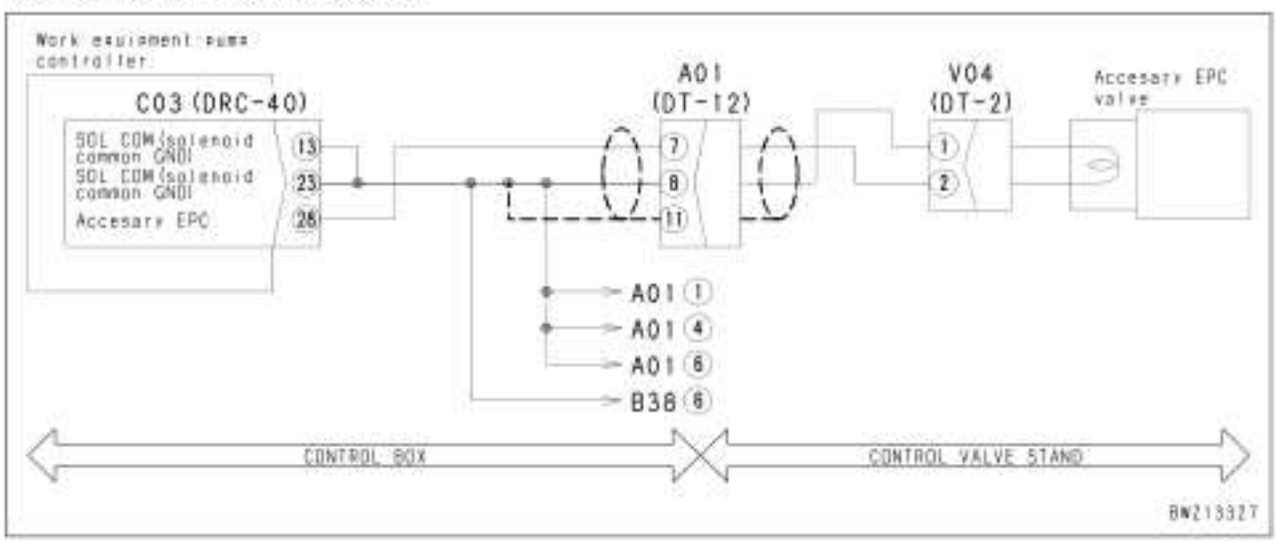
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Failure code [7RFLKA] Disconnection in accessory EPC solenoid

User code	Failure code	Trouble	Disconnection in accessory EPC solenoid (Work equipment and pump controller (work equipment control) system)
—	**7RFLKA**		
Contents of trouble	• When the accessory drive EPC valve circuit is driven, disconnection of the circuit is detected.		
Action of controller	• Turns the output to the accessory drive EPC valve OFF. • Even if cause of failure disappears, system does not reset itself until engine starting switch is once turned OFF.		
Problem that appears on machine	• The primary conveyor vertical operation, the muck discharge conveyor vertical operation, or lock cylinder push/pull, primary conveyor forward rotation do not work. • Horn sounds (three intermittent sounding) upon detecting a failure.		
Related information	• The drive state (ON/OFF) of the accessory drive EPC valve can be checked with the monitoring function (Code: **25705**, Acc. EPC Curr.) • Since the controller detects a disconnection when the solenoid output is ON, turn the output ON for reproduction check after recovery. • The failure history is recorded.		

	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Defective accessory drive EPC valve solenoid (Internal disconnection)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			V04 (male)	Resistance		
			Between (1) and (2)	7 – 14 Ω		
	2	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			Wiring harness between C03 (female) (28) – A01 – V04 (female) (2)	Resistance	Max. 1 Ω	
			Wiring harness between C03 (female) (13), (23) – V04 (female) (1)	Resistance	Max. 1 Ω	
	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 (28) – (13), (23)	7 – 14 Ω		

Related electrical circuit diagram



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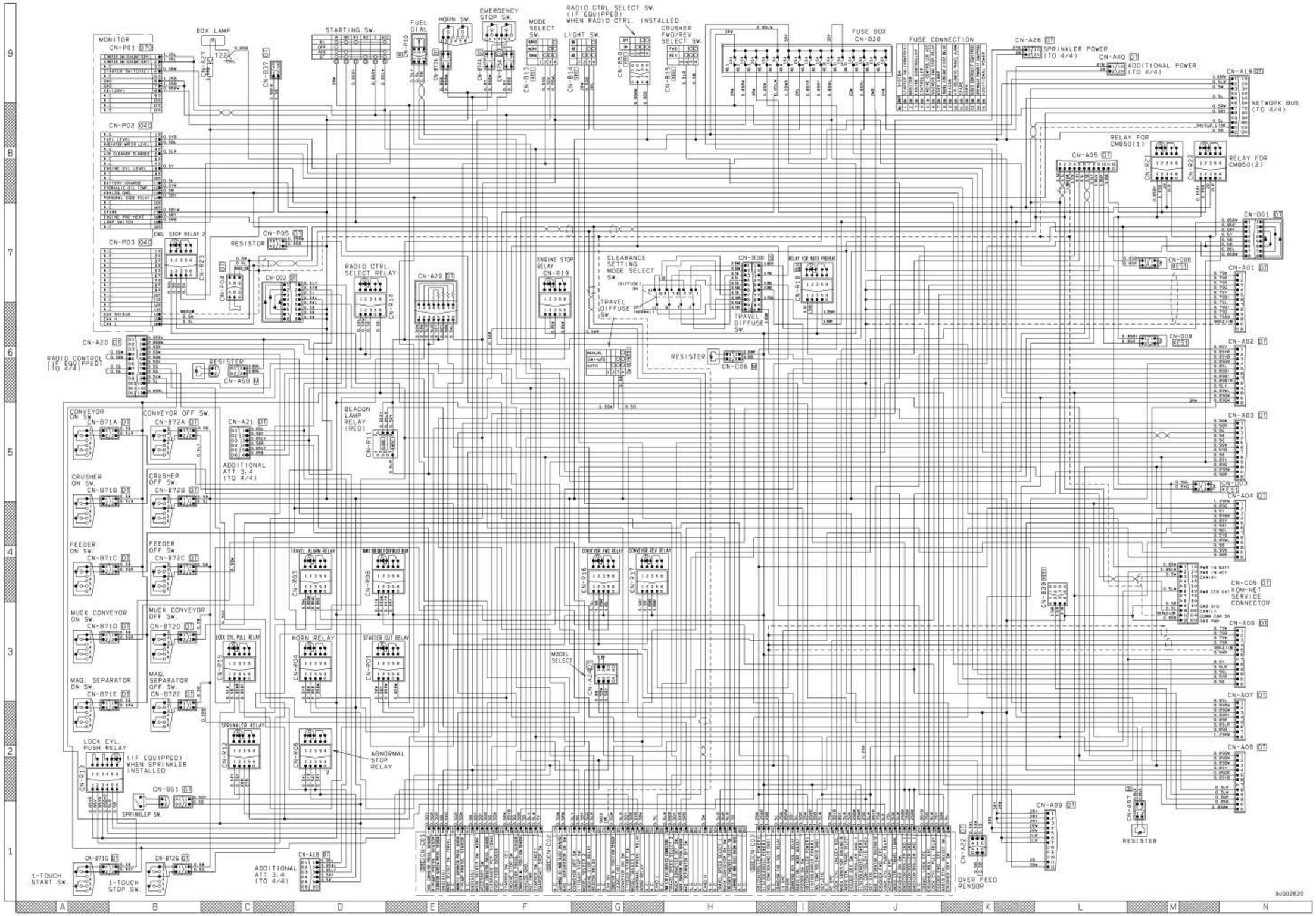
Failure code [CA331] Disconnection or short circuit in injector No.2

User code	Failure code	Trouble	Disconnection or short circuit in injector No.2 (Engine controller system)
E11	CA331		
Contents of trouble	• Opening or short circuit was detected in drive circuit of No. 2 injector.		
Action of controller	• None in particular.		
Problem that appears on machine	• Combustion becomes irregular or engine hunts. • Engine output lowers.		
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 No. 2 injector	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			INJ CYL 2	Resistance		
			Between (1) – (2)	Max. 2 Ω		
			Between (1) – chassis ground	Min. 100 kΩ		
	2	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			Wiring harness between CE01 (female) (54) – INJ CYL 2 (1)	Resistance	Max. 2 Ω	
			Wiring harness between CE01 (female) (51) – INJ CYL 2 (2)	Resistance	Max. 2 Ω	
	3	Ground fault in wiring harness (Short circuit with GND circuit)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			Wiring harness between CE01 (female) (54) – INJ CYL 2 (1)	Resistance	Max. 2 Ω	
	4	Short circuit in wiring harness (with another wiring harness)	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			Wiring harness between CE01 (female) (54) – each of CE01 (female) pins (With all wiring harness connectors disconnected)	Resistance	Min. 100 kΩ	
			Wiring harness between CE01 (female) (51) – each of CE01 (female) pins (With all wiring harness connectors disconnected)	Resistance	Min. 100 kΩ	
	5	Defective wiring harness connector	Connecting parts between No. 2 injector – engine wiring harness – engine controller may be defective. Check them directly. • Looseness of connector, breakage of lock, or breakage of seal • Corrosion, bend, breakage, push-in, or expansion of pin • Moisture or dirt in connector or defective insulation			
	6	Defective injector of other cylinder or defective harness	If the failure codes related to injector are indicated, carry out troubleshooting for them, too.			
	7	Defective engine controller	★ Prepare with engine starting switch OFF, then carry out troubleshooting without turning engine starting switch ON.			
			CE01 (female)	Resistance		
			Between (54) – (51)	Max. 2 Ω		
			Between (54) – chassis ground	Min. 100 kΩ		

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Electrical circuit diagram (1/4)



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