SEN01341-07

Shop Manual

MOBILE CRUSHER **BR380JG-1E0**

SERIAL NUMBERS 2001 and up

ecot3

KOMATSU®

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Table of contents

00 Index and foreword
Index SEN01343-07
Composition of shop manual 2
Table of contents 4

Foreword and general information SEN01344-02
Safety notice 2
How to read the shop manual 7
Explanation of terms for maintenance standard 9
Handling of electric equipment and hydraulic component 11
Handling of connectors newly used for engines 20
How to read electric wire code 23
Precautions when carrying out operation 26
Method of disassembling and connecting push-pull type coupler 29
Standard tightening torque table 32
Conversion table 36

01 Specification
Specification and technical data SEN01346-00
Specification dimension drawings 2
Specifications 3
Weight table 5
Table of fuel, coolant and lubricants 6

10 Structure, function and maintenance standard
Engine and cooling system SEN01348-00
Engine mount, damper 2
Radiator, oil cooler and aftercooler 3
Power train SEN01349-00
Power train 2
Drive system for components 3
Final drive 4
Sprocket 6
Undercarriage and frame SEN01350-00
Track frame and recoil spring 2
Idler 4
Carrier roller 6
Track roller 7
Track shoe 8
Hydraulic system, Part 1 SEN01351-00
Hydraulic piping drawing 2
Hydraulic tank and hydraulic oil filter 3
Hydraulic pump 4
Hydraulic system, Part 2 SEN01352-00
Control valve 2
Self pressure reducing valve 10
CLSS 15
Functions and operation by valve 19
Hydraulic system, Part 3 SEN01353-00
Crusher motor 2
Grizzly feeder motor 6
Conveyor motor 7
Travel motor 8
Valve control 16

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Solenoid valve ... 26
EPC valve ... 28
Electromagnetic selector valve ... 32
Hydraulic cylinder ... 34
Work equipment SEN01354-00
Grizzly feeder semiautomatic system ... 2
Abnormal load stop system ... 3
Primary belt conveyor ... 4
Grizzly feeder ... 8
Crusher ... 9
Crusher tooth tip adjustment system ... 14
Vibrator ... 17
Electrical system SEN01355-02
Engine control ... 2
Work equipment and pump controller ... 12
Electronic control system ... 15
Machine monitor system ... 28
Sensor ... 54
KOMTRAX system ... 58

20 Standard value table
Standard service value table SEN02288-00
Standard value table for engine ... 2
Standard value table for chassis ... 3

30 Testing and adjusting
Testing and adjusting, Part 1 SEN02303-04
Tools for testing, adjusting, and troubleshooting ... 3
Measuring engine speed ... 6
Measuring intake air pressure (boost pressure) ... 7
Checking exhaust gas color ... 8
Adjusting valve clearance ... 9
Measuring compression pressure ... 11
Measuring blow-by pressure ... 13
Measuring engine oil pressure ... 14
Handling fuel system parts ... 15
Releasing residual pressure from fuel system ... 15
Measuring fuel pressure ... 16
Measuring fuel delivery, return rate and leakage ... 18
Bleeding air from fuel circuit ... 21
Checking fuel circuit for leakage ... 23
Replacing fan belt ... 24
Checking and adjusting track shoe tension ... 25
Measuring and adjusting oil pressure in work equipment and travel circuits ... 27
Measuring control circuit basic pressure ... 32
Measuring and adjusting oil pressure in pump PC control circuit ... 33
Measuring and adjusting oil pressure in pump LS control circuit ... 36
Measuring solenoid valve output pressure ... 40
Measuring PPC valve output pressure ... 43
Measuring oil leakage ... 44
Bleeding air from fuel circuit ... 21
Testing travel deviation ... 48
Adjusting mirrors ... 49
Testing and adjusting, Part 2 SEN02304-00
Special functions of machine monitor ... 2

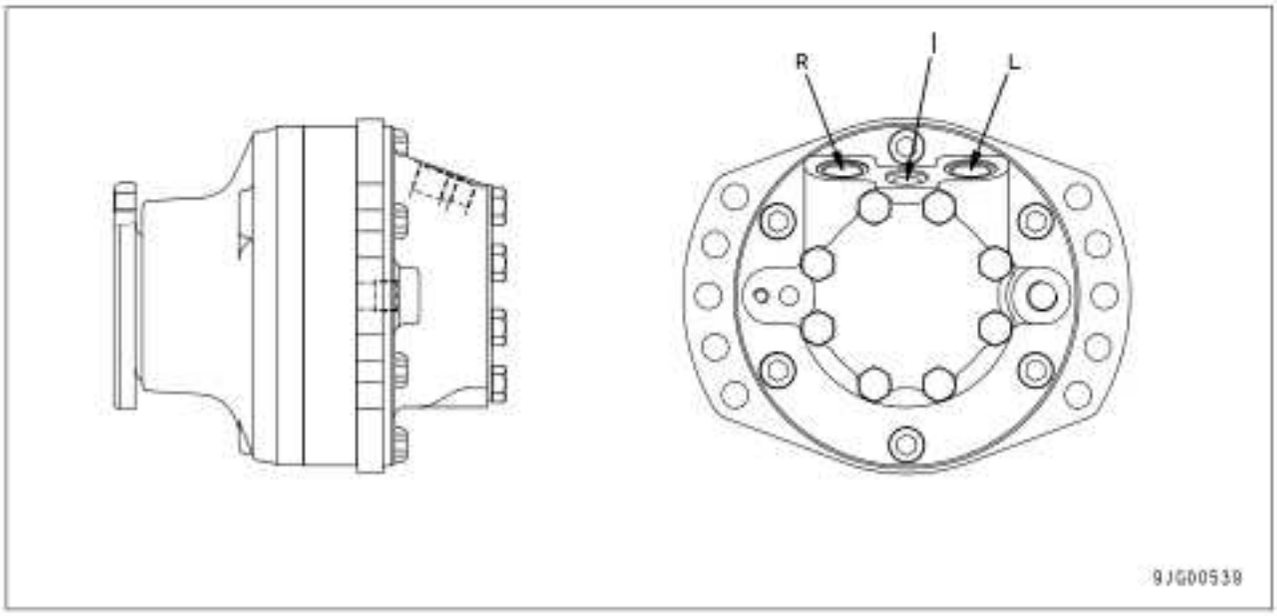
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Testing and adjusting, Part 3 SEN02305-03
Check and adjustment of jaw crusher 2
Check and adjustment of outlet clearance 4
Adjusting tension of crusher drive V-belt 37
Check and adjustment of primary conveyor 38
Inspection and maintenance of magnetic separator 44
Check and adjustment of muck discharge conveyor 46
List of companies which handles radio controllers 48
Handling voltage circuit of engine controller 49
Starting KOMTRAX terminal operations 50
Indicator lamps of KOMTRAX terminal 54
Preparation work for troubleshooting for electrical system 57
Procedure for testing diodes 61

40 Troubleshooting
Failure code table and fuse locations SEN02088-02
Failure code table 2
Fuse locations 6
General information on troubleshooting SEN02089-04
Points to remember when troubleshooting 2
Sequence of events in troubleshooting 3
Checks before troubleshooting 4
Classification and procedures of troubleshooting 6
Contents of troubleshooting table 10
Connection table for connector pin numbers 12
T- branch box and T- branch adapter table 48
Troubleshooting by failure code, Part 1 SEN02090-00
Failure code [7RC1KB] Short circuit conveyor ON switch 4
Failure code [7RC2KA] Disconnection in conveyor OFF switch 6
Failure code [7RC5KB] Short circuit in feeder ON switch 8
Failure code [7RD2KB] Short circuit in conveyor reverse relay 10
Failure code [7RD2KZ] Disconnection or short circuit in conveyor reverse relay 12
Failure code [7RE1KB] Short circuit in crusher ON switch 14
Failure code [7RE2KA] Disconnection in crusher OFF switch 16
Failure code [7RE6KB] Short circuit in muck discharge conveyor ON switch 18
Failure code [7RE7KA] Disconnection in muck discharge conveyor OFF switch 20
Failure code [7RE8KB] Short circuit in magnetic separator ON switch 22
Failure code [7RE9KA] Disconnection in magnetic separator OFF switch 24
Failure code [7REAKB] Short circuit in accessory input circuit 26
Failure code [7REDMA] Abnormality in primary conveyor pressure sensor 28
Failure code [7REEMA] Abnormality in muck conveyor pressure sensor 30
Failure code [7RENKZ] Abnormality in clearance potentiometer 32
Failure code [7REPKA] Disconnection in feeder OFF switch 34
Failure code [7RESKB] Short circuit in one-touch start switch 36
Failure code [7RETKA] Disconnection in one-touch stop switch 38
Failure code [7RF2KA] Disconnection in crusher forward EPC valve 40
Failure code [7RF2KB] Short circuit in crusher forward EPC valve 41
Failure code [7RF2KY] Short circuit in crusher forward EPC valve 42
Failure code [7RF3KA] Disconnection in crusher reverse EPC valve 43
Failure code [7RF3KB] Short circuit in crusher reverse EPC valve 44
Failure code [7RF3KY] Short circuit in crusher reverse EPC valve 45
Failure code [7RF4KA] Disconnection in feeder forward EPC valve 46
Failure code [7RF4KB] Short circuit in feeder forward EPC valve 47
Failure code [7RF4KY] Short circuit in feeder forward EPC valve 48

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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

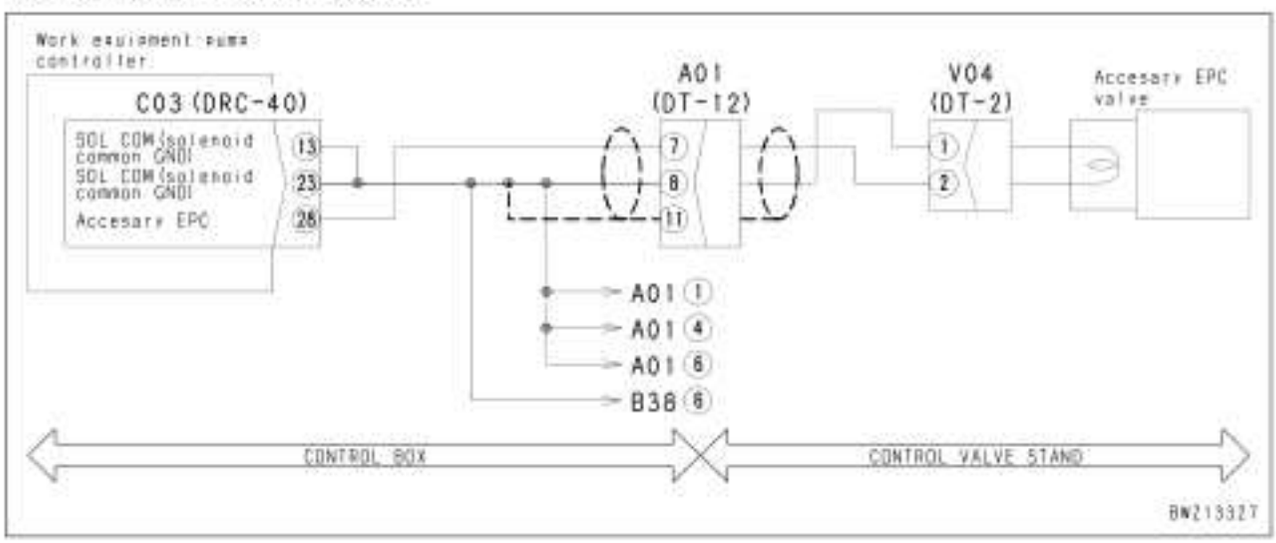
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Failure code [7RFLKA] Disconnection in accessory EPC solenoid

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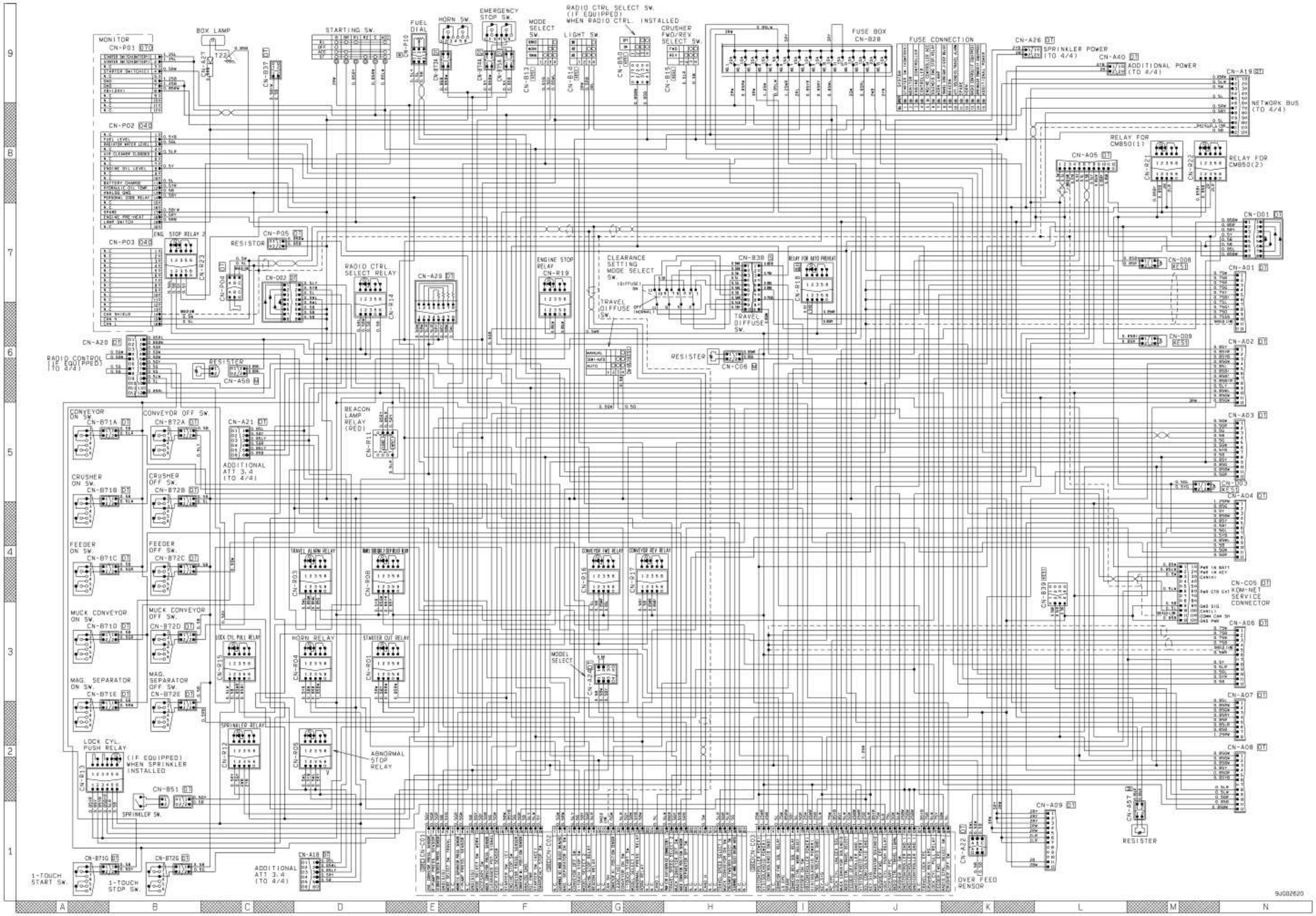
Failure code [CA331] Disconnection or short circuit in injector No.2

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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