SEBM000105

SHOP MANUAL

KOMATSU®

D575A-2

MACHINE MODEL SERIAL NUMBER

D575A-2 **10001 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.

- D575A-2 mounts the SA12V170-1 engine.
  For details of the engine, see the 12V170-1 Series Engine Shop Manual.

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CONTENTS

No. of page

01 GENERAL 01-1

10 STRUCTURE AND FUNCTION 10 1

20 TESTING AND ADJUSTING 20-1

30 DISASSEMBLY AND ASSEMBLY 30-1

40 MAINTENANCE STANDARD 40-1

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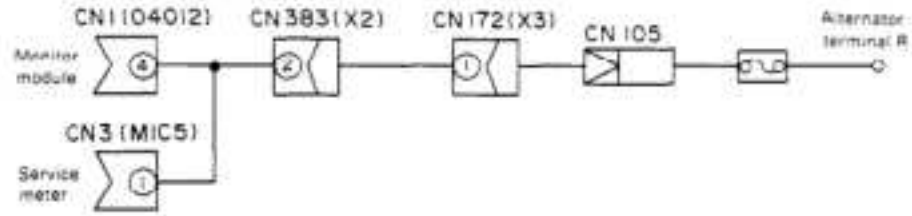
TROUBLESHOOTING OF ELECTRIC, HYDRAULIC, MECHANICAL SYSTEM

Table of failure modes and causes (Electric, hydraulic, mechanical system) 20-105
Troubleshooting of electrical system 20-107
Troubleshooting of hydraulic, mechanical system 20-121

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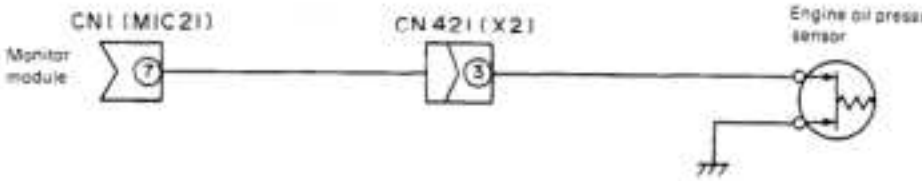
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M4. a) Related electrical circuit diagram



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M-4. b) Related electrical circuit diagram



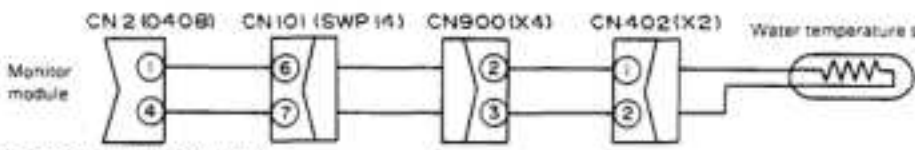
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If the condition is as shown in the table below, the sensor is normal

Engine oil pressure 0.5 kg/cm² and above	No continuity
Engine oil pressure below 0.5 kg/cm²	Continuity

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M-4. d) Related electrical circuit diagram



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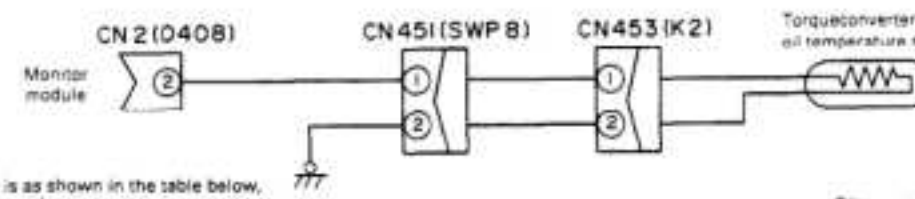
If the condition is as shown in the table below, the sensor is normal.

Ambient temperature	Normal temperature
35°C	Approx. 29 kΩ
20°C	Approx. 52 kΩ
10°C	Approx. 80 kΩ



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M-4. e) Related electrical circuit diagram



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If the condition is as shown in the table below, the sensor is normal.

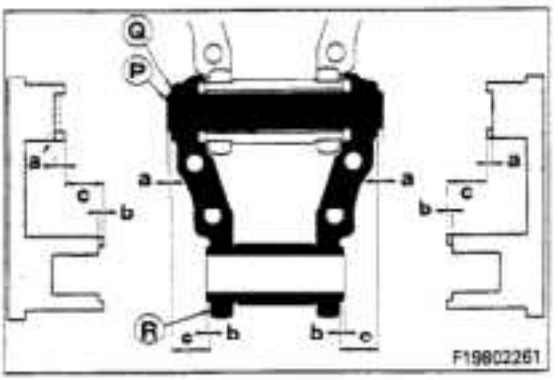
Ambient temperature	Normal temperature
35°C	Approx. 29 kΩ
20°C	Approx. 52 kΩ
10°C	Approx. 80 kΩ



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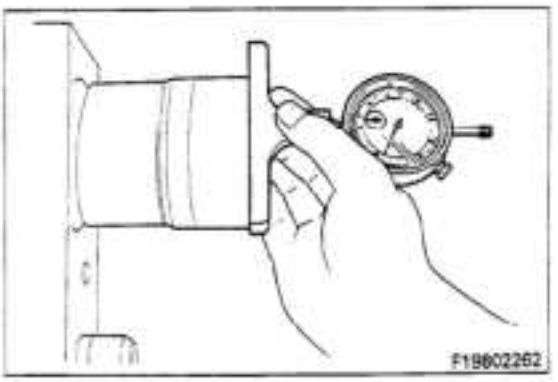
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7) In order to keep the protrusion of the pin and bushing constant and the installation dimensions of the seal within the specified value during assembly, adjust the press-fitting jig dimensions of the link press.
★ For details of the standard dimensions, see the section PRESS-FITTING JIG DIMENSION TABLE FOR LINK PRESS.

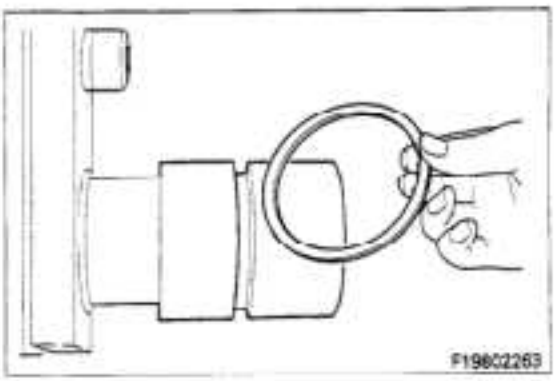


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★ To leave a small space for the pin when assembling, ensure that the dimension (dimension a') is greater than dimension a at the pin pushing portion of the left press-fitting jig.
When assembling in order ① left link press fitting, ②, right link press fitting, provide the extra space for the pin on the right press-fitting jig.


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★ If the end face of the pin (portion P) or the end face of the link (portions Q, R) are worn, add the amount of wear to the standard dimension when adjusting the dimension of the press-fitting jig so that the amount of protrusion of the left and right pin and bushing is uniform.


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8) Adjust the relief pressure of the link press to make sure that the pushing force of the press does not exceed the specified value.
★ If the pushing force is too strong, excessive force will be brought to bear on the spacer, and it will be pushied against the bushing. This will cause the spacer to break or will cause abnormal wear between the spacer and bushing end face.
★ If the interference at the press-fitting portion is defferent from when the part is new, as when reusing a pin or bushing, measure several of the press-fitting portions, and use the table below to determine the set pushing force according to the average interference.
★ Set pushing force of pin and bushing: 240 ton
Set pushig force = 1.8 X average pushing force (Adjust the relief pressure of link press too fix the set pushing force)

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TABLE OF FAILURE MODES AND CAUSES
(Electric, Hydraulic, Mechanical systems)

	Parts causing failure / Failure mode	Electrical system																	Hydraulic system																			Mechanical system																	Troubleshooting	
													Dual tilt				Torque converter	Pin-puller		Power train								Work equipment							Cooling fan																							
		Wiring harness	Water temperature sensor	Oil temperature sensor	Starting switch	Starting motor	Monitor auxiliary controller	Panel switch	Alternator electrical system	Battery relay	Dual tilt solenoid	Dual tilt switch	Pitch dozer switch	Torque converter oil temperature sensor	Pin-puller solenoid	Selector switch	Power train pump	Clutch valve	Brake valve	Modulating valve	Transmission valve	Hydraulic pump	Strainer	Hydraulic cylinder	Main control valve	Main relief valve	Ripper valve	PPC relief valve	PPC valve	Fan motor	Relief valve	Linkage	Steering clutch (disc, plate)	Brake clutch disc, plate	Internal parts of transmission	Internal parts of torque converter	Bevel gear shaft (bevel, transfer)	Final drive	Engine	Radiator core	Cooling water (water)	Fuel system	Cooling system	Loose piping clamps, air in circuit, leakage		
1	Brakes do not work																	○	○	○											○	○	○																			—	H-1
2	Machine does not turn. (Machine can travel only in a straight line.)																	○	○	○											○	○	○																			—	H-2
3	There is travel deviation																	○	○	○											○	○																			—	H-3
4	Machine turns only in one direction (lever operated)																	○	○	○											○		○																			—	H-4
5	Time lag is excessive																○				○	○										○																				—	H-5
6	Machine travels only in one direction (forward or in reverse)																					○												○																			H-6
7	Machine does not move. (2nd, 3rd, engine running)																○	○		○	○	○									○	○	○	○	○	○	○															—	H-7
8	Machine does not move in any speed range.																○	○		○	○										□			□	□																	—	H-8
9	Torque converter overheats (power train overheats).													○			○			○												○	○	○	○			○	○	○		○										—	H-9
10	Abnormal noise from around hydraulic pump																				○	○																								○							—	H-10
11	Blade RAISE speed slow or lacks power.																				○		○	○	○		○	○																							—	H-11
12	Ripper lift speed slow.																				□		□			□	□	□																							—	H-12
13	Excessive hydraulic drift of blade																						○	○																											—	H-13
14	Excessive hydraulic drift of ripper																						○			○																											H-14
15	Engine does not start.	○			○	○				○																																								E-1	H-15
16	Dual tilt cannot be used	○									○	○																																						E-2	—
17	Pitch dozer cannot be used	○									○		○																																					E-3	—
18	Neither dual tilt nor pitch dozer can be used	○									○	○	○																																					E-4	—
19	Pin-puller cylinder does not work	□													○	○					□						○																								E-5	H-19
20	Fan speed is slow																				□								□	□																					—	H-16

13M020

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