CEBM005905

Shop Manual

KOMATSU®

PC270LC-7L

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC270LC-7L - A86001** and UP

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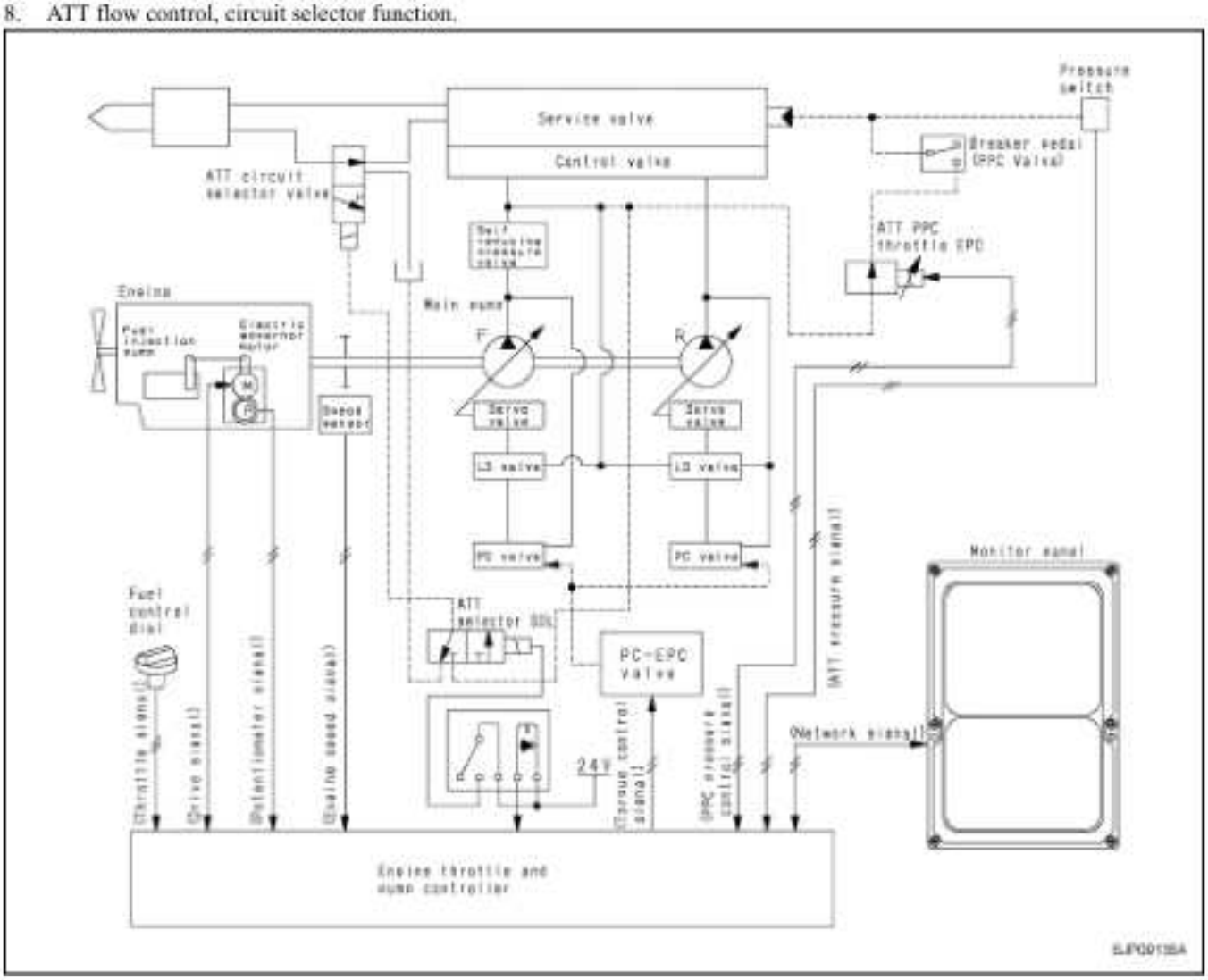
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CONTENTS

01	GENERAL	01-1
10	STRUCTURE, FUNCTION AND MAINTENANCE STANDARD	10-1
20	STANDARD VALUE TABLES	20-1
30	TESTING AND ADJUSTING	30-1
40	TROUBLESHOOTING	40-1
50	DISASSEMBLY AND ASSEMBLY	50-1
90	DIAGRAMS AND DRAWINGS	90-1

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8. ATT flow control, circuit selector function.



FUNCTION

This function is available only with the ATT specification. The function acts as follows according to the flow command and working mode from the monitor.

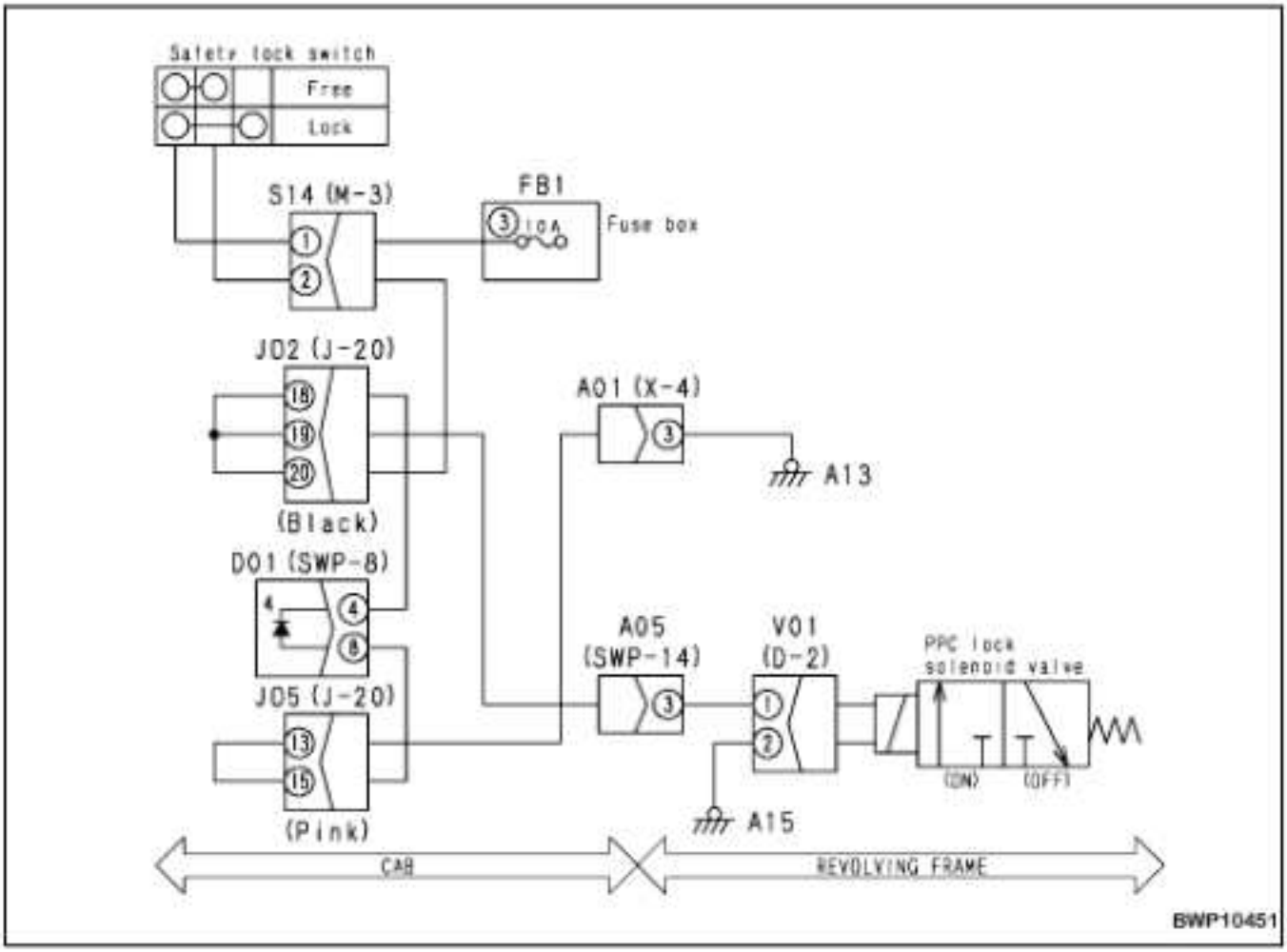
A. It throttles the ATT PPC pressure and controls the flow when the pedal is depressed fully.

B. In mode **B** and the other modes, it switches to ATT single acting (**B**) or double acting (other modes).

※: The ATT flow control adjustment function is on the multi-monitor specification machine only.

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Electrical Circuit Diagram for PPC Lock Solenoid



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E-31-E11

Self-diagnosis notice	Trouble	Disconnection in recirculated air sensor
E11		
Contents of trouble	• Disconnection in the recirculated air sensor system is detected.	
Action of control panel	• Fixes the recirculated air temperature for control. • When the following condition is satisfied, the operation returns to normalcy. <Completion of removal of cause> + <Deletion of self-diagnosis notice> + <Turning starting switch OFF and ON> + <Starting air conditioner>	
Related information	-	

Possible causes and standard value in normal state		Cause	Standard value in normal state/Remarks on troubleshooting		
	1	Defective recirculated air sensor (Internal disconnection)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			TH1 (male)	Resistance	
			Between (1) and (2)	300 Ω - 430 kΩ	
	2	Disconnection of wiring harness (Disconnection or defective contact with connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between M30 (female) (12) and TH1 (female) (2)	Resistance	Max. 1 Ω
			Wiring harness between M29 (female) (11) and TH1 (female) (1)		
	3	Defective air conditioner system	If neither of causes 1 and 2 is the cause of the trouble, the air conditioner system may be defective. Refer to STRUCTURE AND FUNCTION, "Air conditioner".		

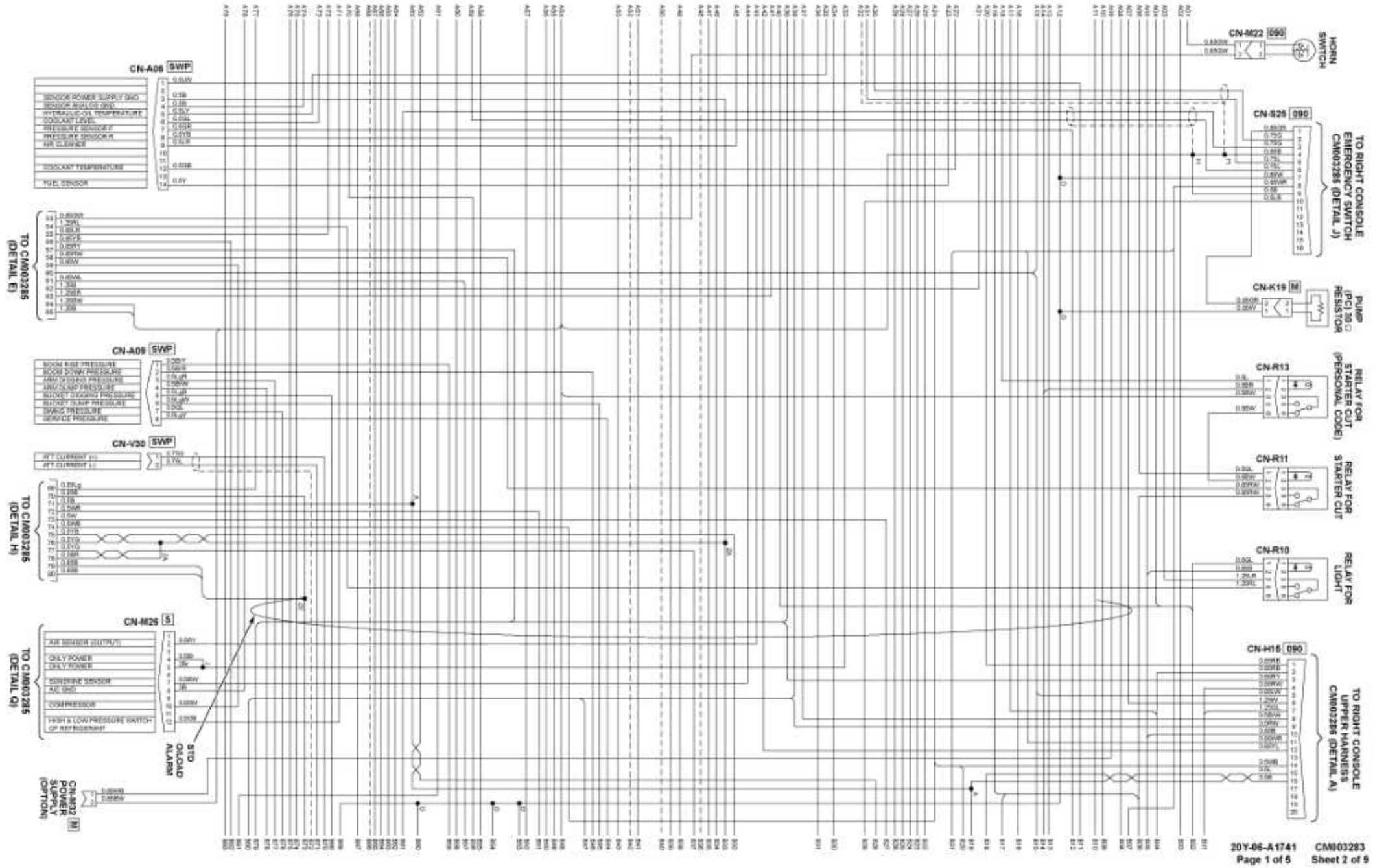
E-31-E12

Self-diagnosis notice	Trouble	Short circuit in recirculated air sensor
E12		
Contents of trouble	• Short circuit in the recirculated air sensor system is detected.	
Action of control panel	• Fixes the recirculated air temperature for control. • When the following condition is satisfied, the operation returns to normalcy. <Completion of removal of cause> + <Deletion of self-diagnosis notice> + <Turning starting switch OFF and ON> + <Starting air conditioner>	
Related information	-	

Possible causes and standard value in normal state		Cause	Standard value in normal state/Remarks on troubleshooting		
	1	Defective recirculated air sensor (Internal short circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			TH1 (male)	Resistance	
			Between (1) and (2)	300 Ω - 430 kΩ	
	2	Disconnection of wiring harness (Disconnection or defective contact with connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between M30 (female) (12) and TH1 (female) (2)	Resistance	Max. 1 Ω
			Wiring harness between M29 (female) (11) and TH1 (female) (1)		
	3	Defective air conditioner system	If neither of causes 1 and 2 is the cause of the trouble, the air conditioner system may be defective. Refer to STRUCTURE AND FUNCTION, "Air conditioner".		

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CIRCUIT DIAGRAM SHEET 2 OF 9



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