SHOP MANUAL

KOMATSU®

WA700-3

(KA SPEC.)

MACHINE MODEL	SERIAL NO.
WA700-3	**51005 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.

- WA700-3 mount the SAA6D170E-3 engine.
  For details of the engine, see the 170-3 Series Engine Shop Manual.

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EA-14 Error code [135] (Abnormality [high level] in oil pressure sensor system)

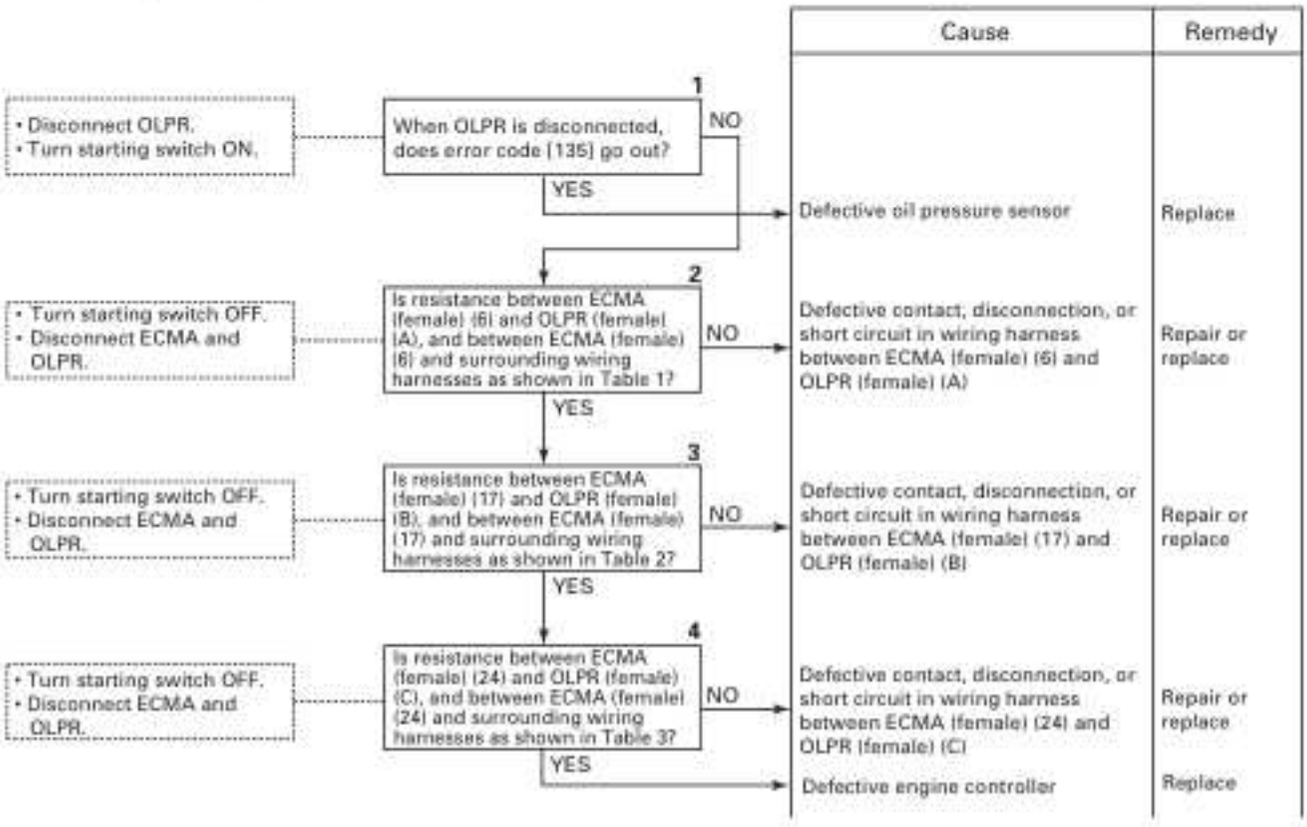


Table 1

ECMA (female), OLPR (female)	Resistance value
Between ECMA (6) and OLPR (A)	Max. 10 Ω
Between ECMA (6) and surrounding wiring harnesses	Min. 1 MΩ

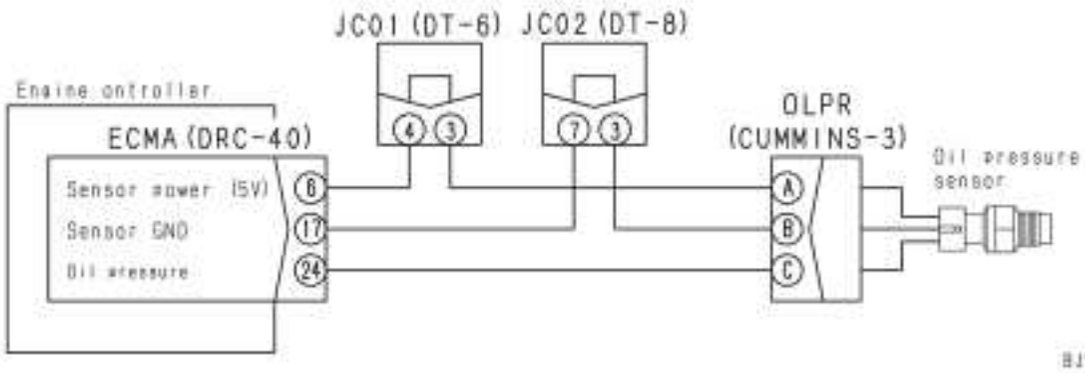
Table 2

ECMA (female), OLPR (female)	Resistance value
Between ECMA (17) and OLPR (B)	Max. 10 Ω
Between ECMA (17) and surrounding wiring harnesses	Min. 1 MΩ

Table 3

ECMA (female), OLPR (female)	Resistance value
Between ECMA (24) and OLPR (C)	Max. 10 Ω
Between ECMA (24) and surrounding wiring harnesses	Min. 1 MΩ

EA-14 Related electrical circuit diagram



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Information given in troubleshooting chart

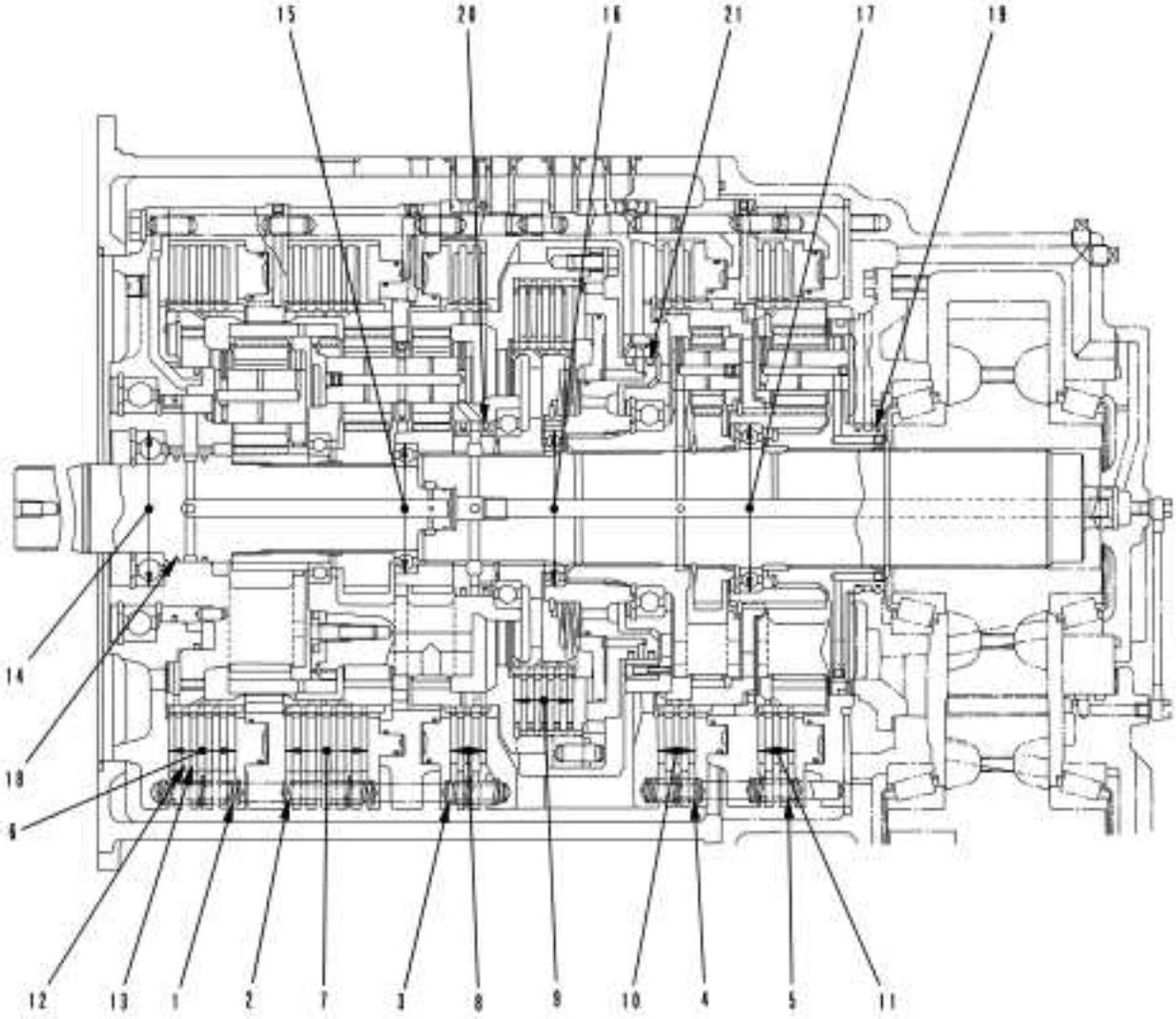
★ The following type of information is given in the troubleshooting charts and related circuit diagrams, so make sure that you understand the content fully before starting troubleshooting.

Action code	Failure code	Controller code	Trouble	Problem that appeared on machine
Shown on panel display	Shown on panel display	Shown on panel display		
Contents of trouble	Condition when monitor panel or controller detected failure.			
Action of controller	Action taken to protect system or equipment when monitor panel or controller detected failure.			
Problem that appears on machine	Problem that appeared on machine when monitor panel or controller took above action.			
Related information	Information related to troubleshooting or failure that occurred.			

	Cause		Standard value in normal state/Remarks on troubleshooting
Probable cause and standard value when normal	1	Probable cause of existing failure (the numbers are index numbers and do not indicate the order of priority)	<Content of information> • Standard value when condition is normal (used to judge status of probable failure). • Remarks used to judge status of probable failure. <Problems with wiring harness> • Disconnection Defective connection of connector or disconnection in wiring harness. • Ground fault Wiring harness not connected to GND (ground) circuit is in contact with GND circuit. • Short circuit with power source (Hot short) Wiring harness not connected to power source (24V) circuit is in contact with power source circuit. • Short circuit Wiring harnesses of independent circuits are in abnormal contact. <Precautions when troubleshooting> 1) Method of displaying connector No. and method of handling T-adapter If there are no special instructions, insert or connect the T-adapter as follows. • If there is no indication of (male) or (female) with the connector No., disconnect the connector and insert the T-adapter into both the male and female sides. • If (male) or (female) is indicated with the connector No., disconnect the connector and insert the T-adapter into only the side indicated (either male or female). 2) Order of listing pin No. and method of handling test lead If there are no special instructions, connect the (+) lead and (–) lead of the tester as follows. • Connect the (+) lead to the pin No. or wiring harness given first. • Connect the (–) lead to the pin No. or wiring harness given last.
	2		
	3		
	4		
	5		

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TRANSMISSION (1/2)



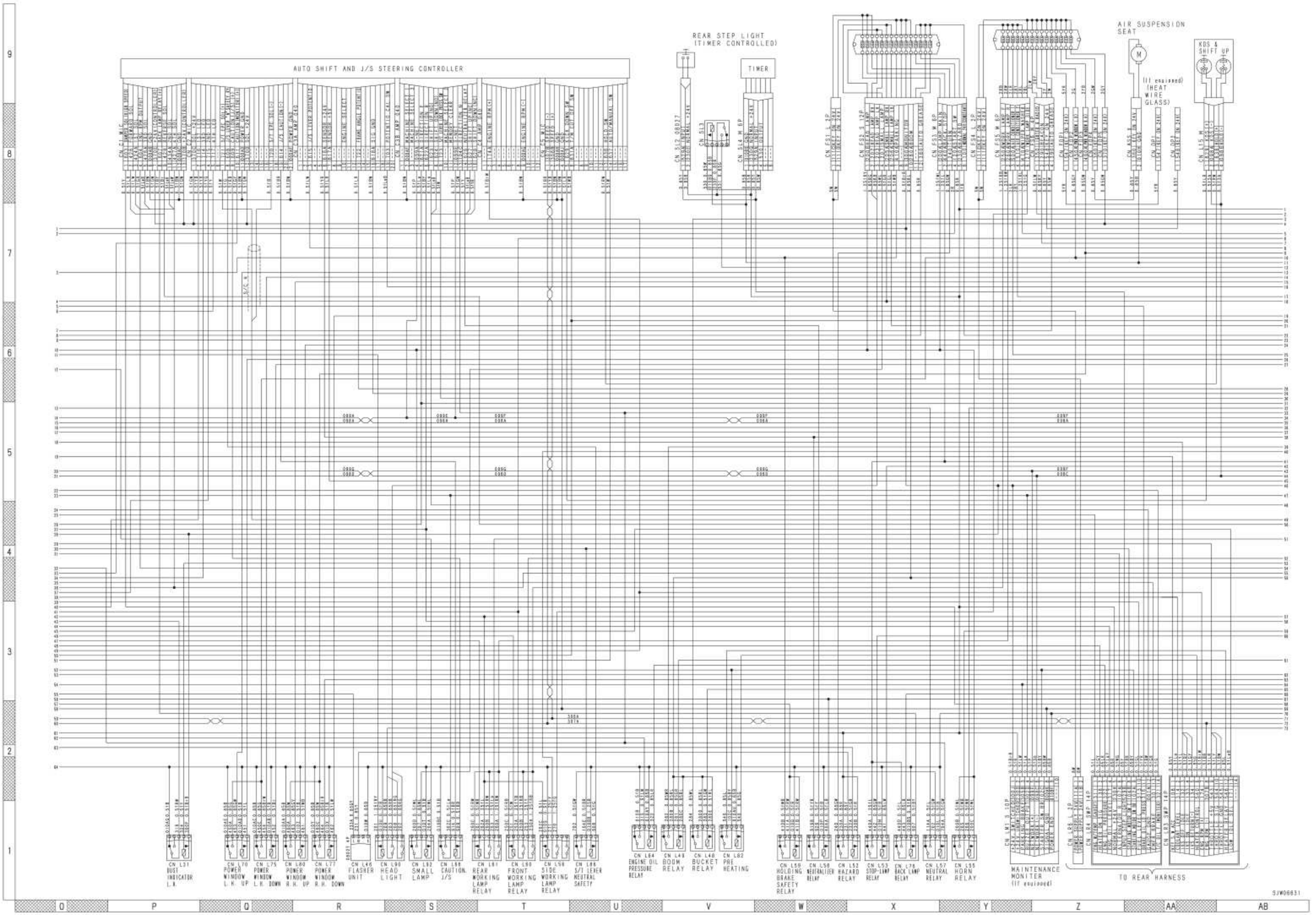
SVM03591

Unit: mm

No.	Check item	Criteria					Remedy
		Standard size			Repair limit		
1	Reverse clutch springs (12 pieces)	Free length	Installation length	Installation load	Free length	Installation load	Replace
		91	69.2	192 N (19.6 kg)	85.5	164 N (16.7 kg)	
2	Forward clutch springs (12 pieces)	91	74.4	146 N (14.9 kg)	85.5	125 N (12.7 kg)	
3	4th clutch springs (12 pieces)	52	46	101 N (10.3 kg)	48.9	86.3 N (8.8 kg)	
4	3rd clutch springs (12 pieces)	52	47	84.3 N (8.6 kg)	48.9	71.6 N (7.3 kg)	
5	1st clutch springs (12 pieces)	52	42.8	155 N (15.8 kg)	48.9	131 N (13.4 kg)	

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ELECTRIC CIRCUIT DIAGRAM (2/7)



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