SHOP MANUAL

KOMATSU®

PC58UU-3

MACHINE MODEL	SERIAL NUMBER
PC58UU-3	**20001 and up**

- This shop manual may contain attachiments 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.

- PC58UU-3 mounts the 4D88E-3G and 4D88E-5XBB engine.
  For details of the engine, see the 68E-88E Series Engine Shop Manual.

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CONTENTS

No. of page

01 GENERAL 01-1

10 STRUCTURE, FUNCTION AND MAINTENANCE STANDARD 10-1

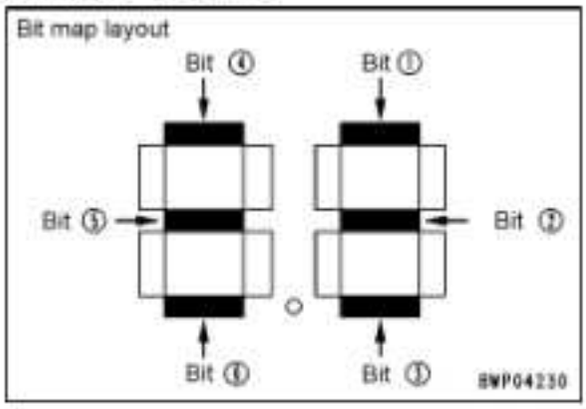
20 TESTING AND ADJUSTING 20-1

30 DISASSEMBLY AND ASSEMBLY 30-1

90 OTHERS 90-1

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BIT MAP TABLE



Displayed codes 20 – 25 and 60 are bit codes used to check ON/OFF input and output.

Displayed code	Contents	Bit ④ / Bit ⑤ / Bit ⑥	Bit ① / Bit ② / Bit ③
20	ON/OFF input/output 1	ATT1 (When GND is connected)	ATT1 (When GND is connected) ※ 1
		Model selection 2 (When GND is connected)	ATT2 (When GND is connected) ※ 1
		UU/US selection (When GND is connected)	ATT3 (When GND is connected)
21	ON/OFF input/output 2	Compressor signal	Main monitor selection (When power source is connected)
			Deceleration motor (When power source is connected)
			Installation of arm crane
22	ON/OFF input/output 3	Mode 1 ※ 2 (When GND is connected)	Reset 1 (When plug is connected) ※ 3
		Mode 2 ※ 2 (When GND is connected)	Reset 2 (When plug is connected) ※ 3
		Deceleration LED (When one-touch deceleration is turned ON)	Monitor back light (When lighting up)
23	ON/OFF input/output 4		
24	ON/OFF input/output 5	Motor drive relay (When relay changeover is turned ON)	Acceleration signal (When signal is input)
		Motor relay (+) (When relay changeover is turned ON)	Deceleration signal (When signal is input)
		Motor relay (-) (When relay changeover is turned ON)	Automatic deceleration switch (When signal is input)
25	ON/OFF input/output 6	Arm-ground angle alarm	Display selection switch (Crane monitor)
		Bucket dump prohibition solenoid + Rotary lamp	Crane mode switch (Crane monitor)
26	ON/OFF input/output 7	Emergency work equipment operation switch	
			Deceleration switch
		Slide arm limit switch	Travel speed raising switch
60	ON/OFF input/output	LEFT offset stop solenoid (When LEFT offset is stopped)	PPC main pressure lock solenoid (When main pressure lock is reset)
			Travel speed raising solenoid (When travel speed is raised)

※ 1 – ※ 3 , see the following page.

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SPECIFICATIONS

Machine Model				PC58UU-3	
Serial Number				20001 – 22000	
Specifications				Canopy specification	Cab specification
		Buket capacity (SAE)	m^3	0.22	0.22
		Operating weight	kg	5,230 [5,330]	5,290 [5,390]
Performance	Working ranges	Max. digging depth	mm	4,000	4,000
		Max. vertical wall depth	mm	2,900	2,900
		Max. digging reach	mm	5,660	5,660
		Max. reach st ground level	mm	5,565	5,565
		Max. digging height	mm	6,330	6,330
		Max. dumping height	mm	4,600	4,600
		Bucket offset amount (left/right)	mm	910/730	910/730
		Max. blade lifting amount	mm	400	400
		Max. blade lowering amount	mm	270	270
		Max. digging force (bucket)	kN (kg)	39.2 {4,000}	39.2 {4,000}
		Swing speed	rpm	10.0	10.0
		Swing max. slope angle	deg.	13	13
		Travel speed (Low/High)	km/h	2.7/4.5 [2.5/4.2]	2.7/4.5 [2.5/4.2]
		Gradeability	deg.	30	30
		Ground Pressure	kPa {kg/cm²}	30.4 {0.31} [31.4 {0.32}]	30.4 {0.31} [31.4 {0.32}]
Dimension		Overall length (for transport)	mm	5,335	5,335
		Overall width	mm	2,000	2,000
		Overall width of track	mm	2,000	2,000
		Overall height (for transport)	mm	2,625 [2,610]	2,625 [2,610]
		Overall height	mm	2,625 [2,610]	2,625 [2,610]
		Ground clearance of counterweight	mm	645 [630]	645 [630]
		Min. ground clearance	mm	335 [320]	335 [320]
		Tail swing radius	mm	1,035	1,035
		Min. swing radius of work equipment (when offset is 0)	mm	1,060	1,060
		Height of work equipment at min. swing radius	mm	4,720 [4,705]	4,720 [4,705]
		Distance between centers of idler and sprocket	mm	1,910 [1,940]	1,910 [1,940]
		Track gauge	mm	1,600	1,600
		Overall length of track	mm	2,470	2,470
		Machine cab height		1,560 [1,545]	1,560 [1,545]
		Blade width x height		2,000 x 400	2,000 x 400

★ The values shown in the [ ] are those for the road liner shoe specification.

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METHOD OF USING TROUBLESHOOTING CHARTS

1. Category of troubleshooting code number

Troubleshooting Code No.	Component
E- OO	Troubleshooting of electrical system
F- OO	Troubleshooting of controller input system
H- OO	Troubleshooting of hydraulic and mechanical system
M- OO	Troubleshooting of machine monitor system

2. Using the troubleshooting flow chart

1) Troubleshooting code number and problem (for (1) - (4), see the example on the next page.)
The title at the top of the troubleshooting chart gives the troubleshooting code and failure mode (problem with the machine).

2) Distinguishing conditions
Even with the same failure mode (problem) the method of troubleshooting may differ according to the model, component, or problem. In such cases, the failure mode (problem) is further divided into sections marked with small letters, for example a, so go to the appropriate section to carry out troubleshooting.
If the troubleshooting table is not divided into sections, start troubleshooting from the first check item in the failure mode.

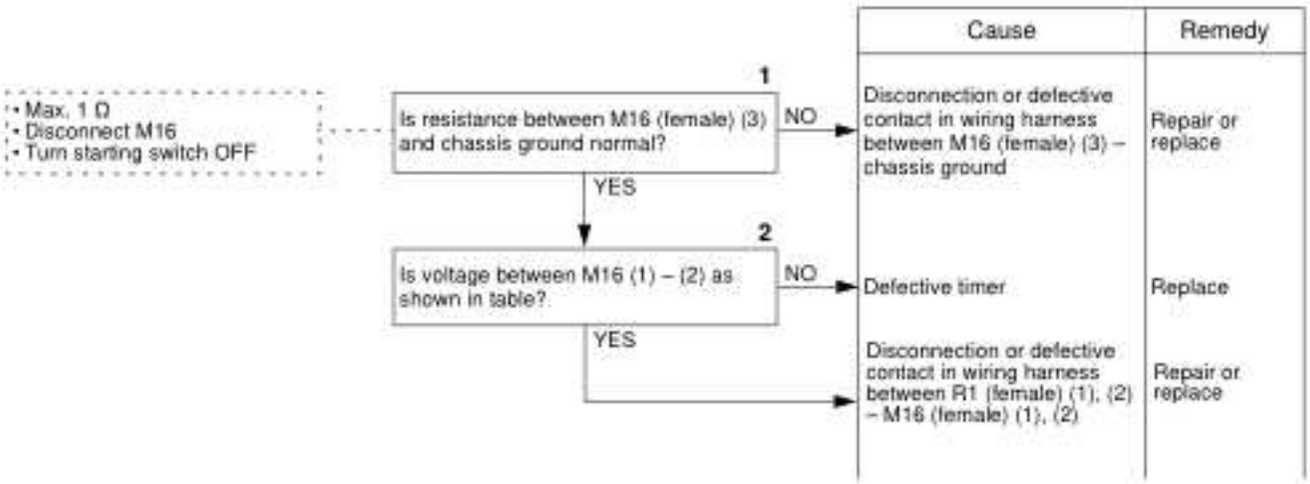
3) Method of following troubleshooting chart
   - Check or measure the item inside ▭, and according to the answer, follow either the YES or the NO line to go to the next ▭. (Note: The number written at the top right corner of the ▭ is an index number; it does not indicate the order to follow.)
   - Following the YES or NO lines according to the results of the check or measurement will lead finally to the Cause column. Check the cause and take the action given in the Remedy column on the right.
   - Below the ▭ there are the methods for inspection or measurement, and the judgement values. If the judgement values below the ▭ are correct or the answer to the question inside the ▭ is YES, follow the YES line; if the judgement value is not correct, or the answer to the question is NO, follow the NO line.
   - Below the ▭ is given the preparatory work needed for inspection and measurement, and the judgement values. If this preparatory work is neglected, or the method of operation or handling is mistaken, there is danger that it may cause mistaken judgement, or the equipment may be damaged. Therefore, before starting inspection or measurement, always read the instructions carefully, and start the work in order from Item 1.

4) General precautions
When carrying out troubleshooting for the failure mode (problem), precautions that apply to all items are given at the top of the page and marked with ★ .
The precautions marked ★ are not given in the ▭, but must always be followed when carrying out the check inside the ▭.

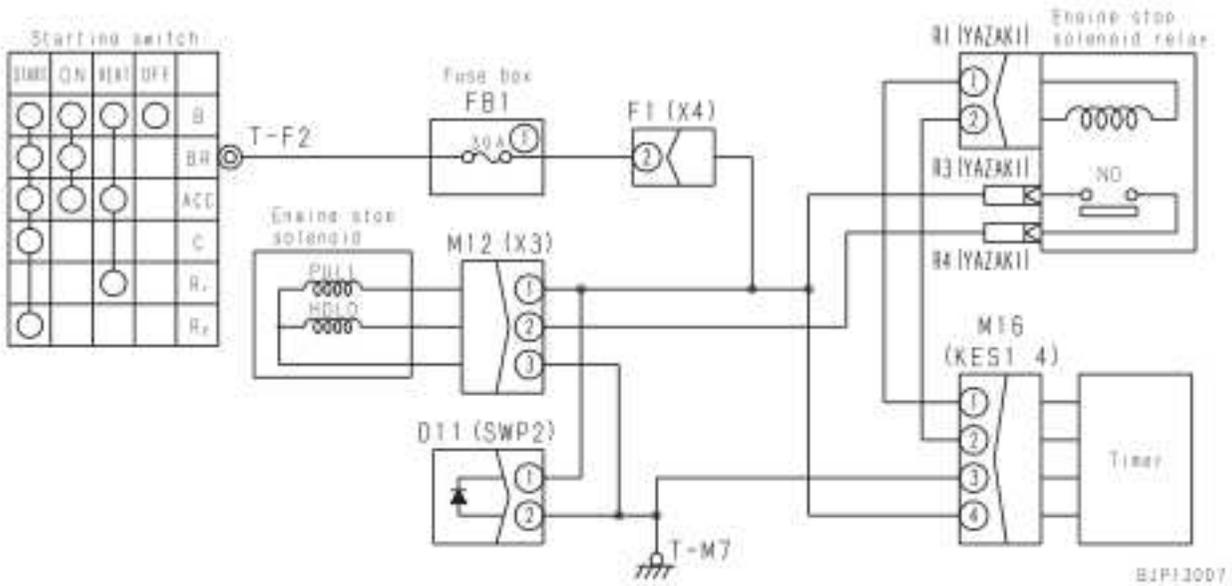
5) Troubleshooting tools
When carrying out the troubleshooting, prepare the necessary troubleshooting tools. For details, see TOOLS FOR TESTING, ADJUSTING, AND TROUBLESHOOTING.

6) Installation position, pin number
A diagram or chart is given for the connector type, installation position, and connector pin number connection. When carrying out troubleshooting, see this chart for details of the connector pin number and location for inspection and measurement of the wiring connector CNOO appearing in the troubleshooting flow chart for each failure mode (problem).

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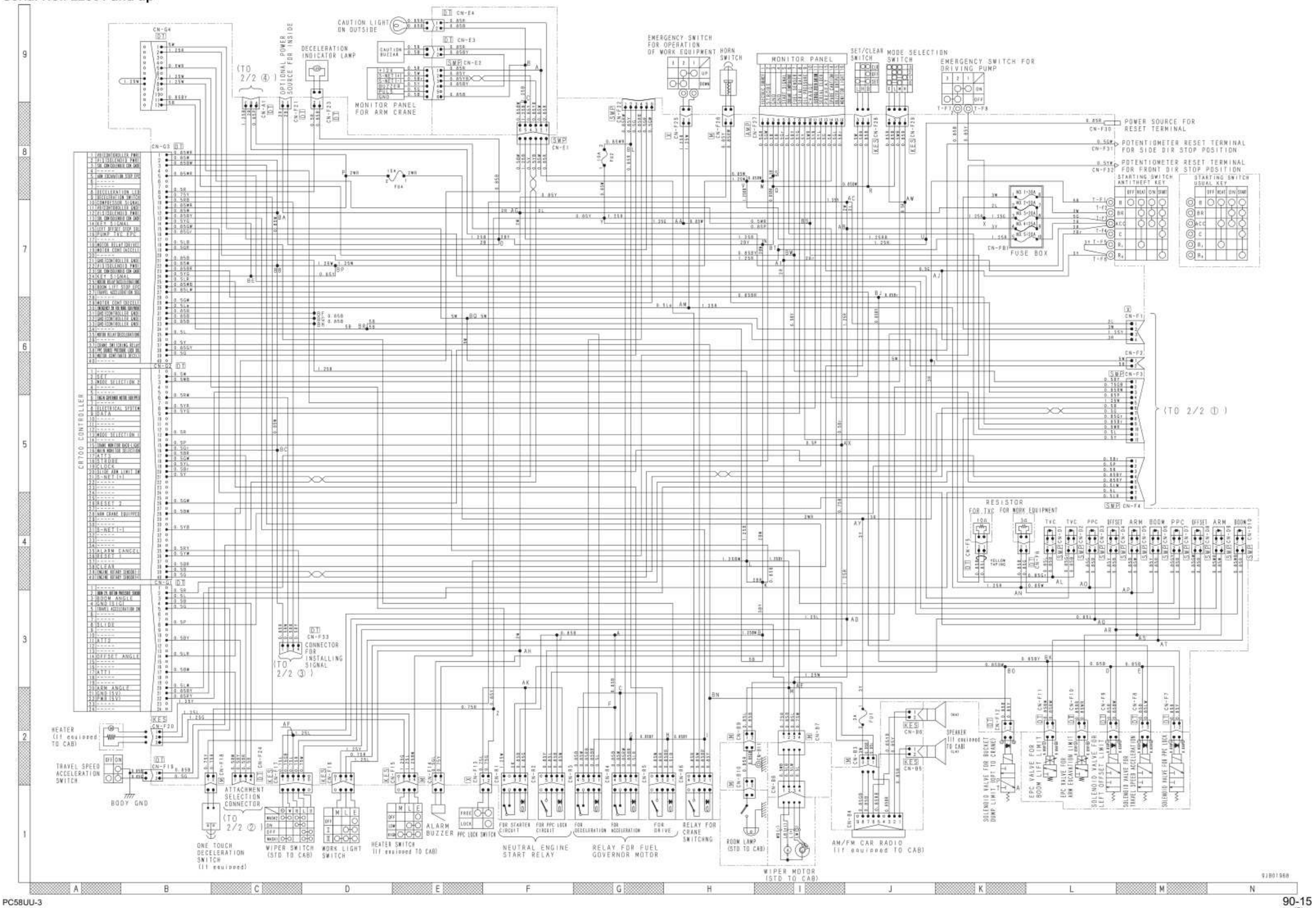


E-19 b) Related electrical circuit diagram



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ELECTRICAL CIRCUIT DIAGRAM (1/2)
Serial No.: 22001 and up



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