SEN03320-05

Shop Manual

BULLDOZER

D21A-8E0
D21P-8E0

SERIAL NUMBERS D21A-90001 and up
D21P-90001

KOMATSU®

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Composition of shop manual

The contents of this shop manual are shown together with Form No. in a list.

Note 1: Always keep the latest version of this manual in accordance with this list and utilize accordingly.
The marks shown to the right of Form No. denote the following:
○: New issue (to be filed additionally) ●: Revision (to be replaced for each Form No.)

Note 2: This shop manual can be supplied for each Form No.

Note 3: To file this shop manual in the special binder for management, handle it as follows:
- Place a divider on the top of each section in the file after matching the Tub No. with No. indicated next to each Section Name shown in the table below:
- File overview and other materials in sections in the order shown below and utilize them accordingly.

Section Title	Form Number	
Shop Manual, contents binder, binder label and tabs	SEN03320-05	
00 Index and foreword	SEN03321-05	
100 Index	SEN03329-05	●
200 Foreword and general information	SEN03330-01	
01 Specification	SEN03322-02	
100 Specification and technical data	SEN04086-02	
10 Structure, function and maintenance standard	SEN03323-03	
100 Engine and cooling system	SEN04087-00	
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500 Work equipment	SEN04092-00	
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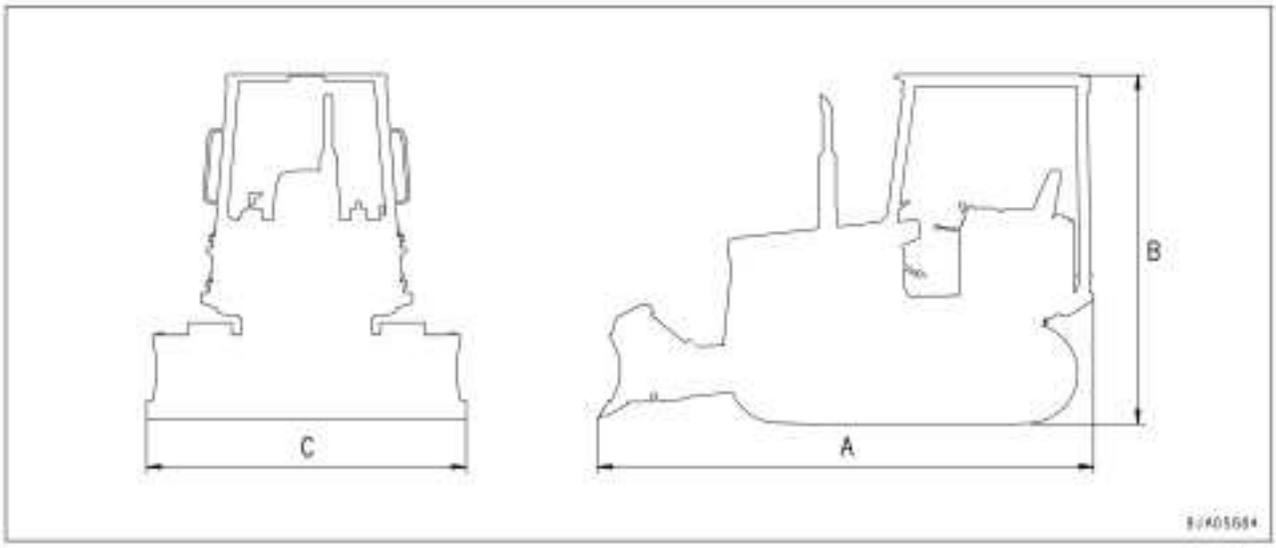
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Specification dimension drawing



	Item		Unit	D21A-8E0		D21P-8E0	
				Steel crawler specification	Rubber crawler specification	Steel crawler specification	Rubber crawler specification
	Machine weight		kg	3,940	3,980	4,320	4,340
	Engine model		—	Komatsu 4D94LE-2 Diesel engine			
	Engine rated output • Net [ISO 9249/SAE J1349] • Gross [SAE J1995] (*1)		kW{HP}/rpm	32.4 {43.4}/2,450 33.2 {44.5}/2,450			
A	Overall length		mm	3,365	3,365	3,350	3,350
B	Overall height		mm	2,450	2,490	2,475	2,510
C	Overall width		mm	2,170	2,170	2,560	2,560
	Travel speed (1st/2nd)	Forward	km/h	2.6/4.4	2.8/4.8	2.6/4.4	2.8/4.8
		Reverse	km/h	3.3/5.6	3.6/6.1	3.3/5.6	3.6/6.1

*1: Indicates the value of the engine alone.
★ The engine rated output is indicated in the net value and gross value. Gross denotes the rated output measured of an independent engine. While, net denotes the value measured of an engine under the condition essentially the same as that when it is installed on machine.

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Before carrying out troubleshooting in E-MODE

Connection table of fuse box

★ This connection table shows the devices to which each power supply of the fuse box supplies power directly (A switch power supply is a device which supplies power while the starting switch is at the ON position and a constant power supply is a device which supplies power while the starting switch is at the OFF position).

★ When carrying out troubleshooting related to the electrical system, you should check the fuse box and fusible link to see if the power is supplied normally.

Type of power supply	Fuse No.	Fuse capacity	Destination of power
Switch power supply	1	20 A	
	2	10 A	Horn
	3	10 A	Back-up buzzer
			Power supply for safety inspection
	4	10 A	Caution lamp
			Coolant temperature gauge and fuel level gauge
	5	30 A	Air bleeding pump
			Engine stop solenoid

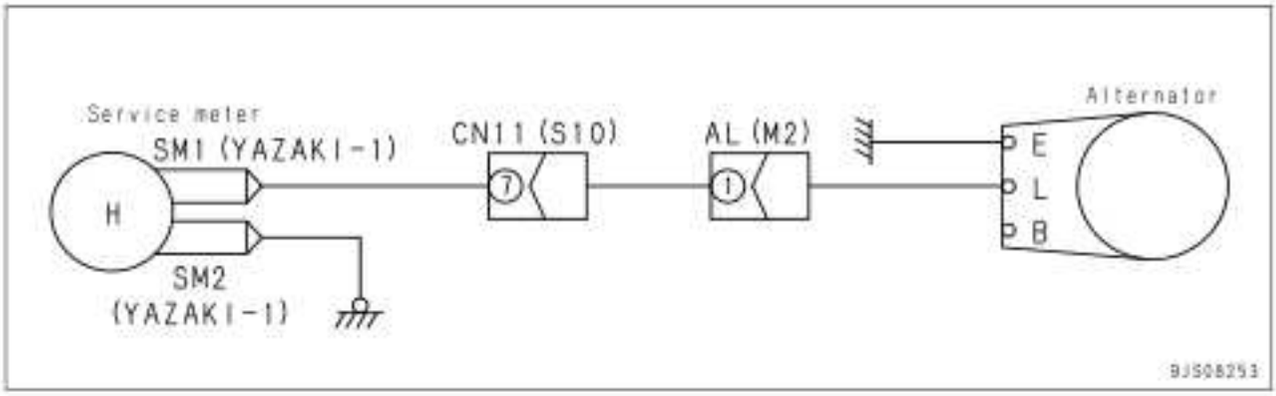
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E-10 The service meter does not operate while engine is running

Trouble	• The service meter (integration of the operating hours) does not operate while the engine is running.
Related information	• The service meter keeps operating while the engine is running, even if the machine is not moving at all. • The service meter does not operate while the engine is stopped. • Refer to troubleshooting E-1, too.

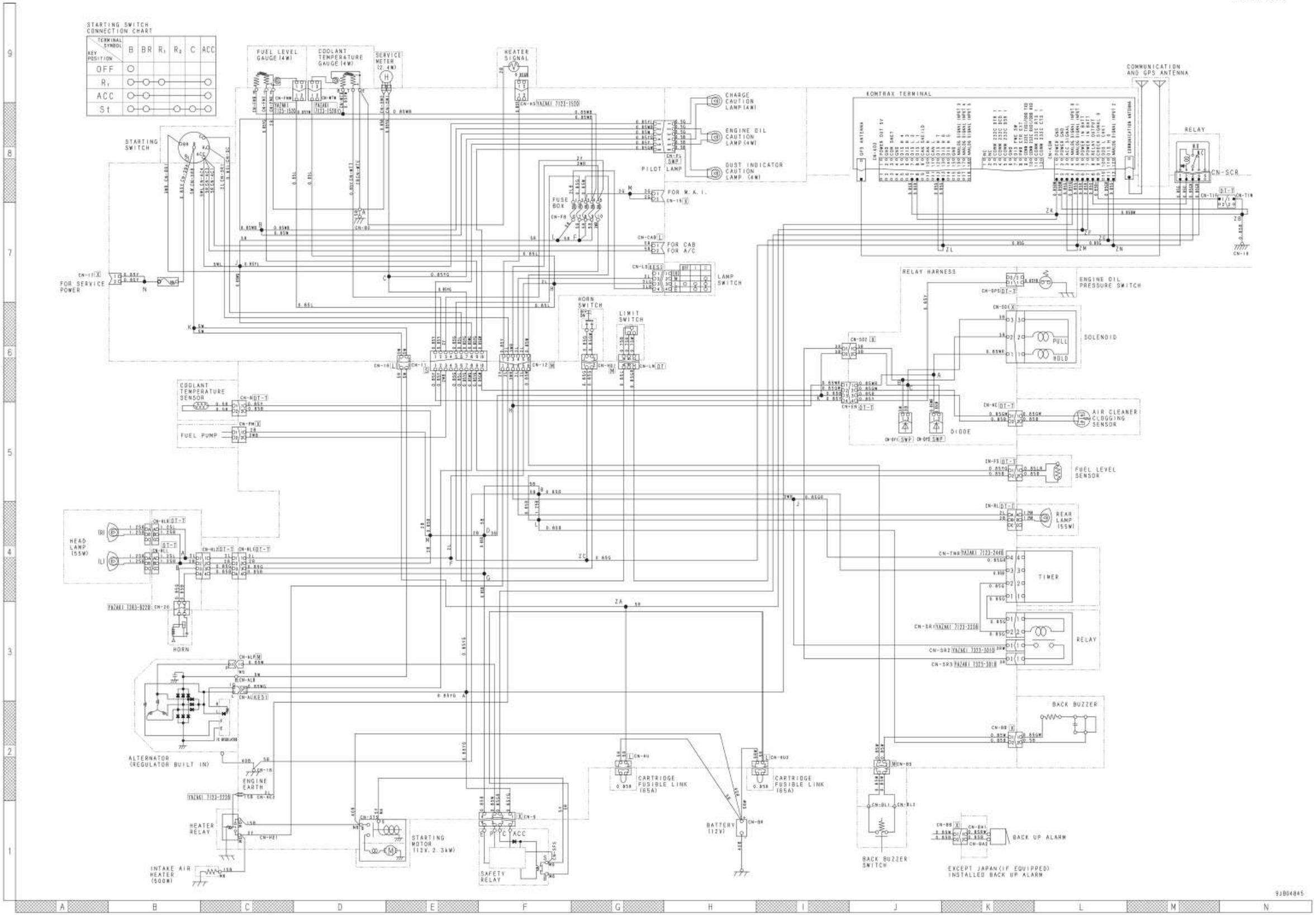
	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective service meter	1) Turn starting switch OFF. 2) Disconnect connector SM1. 3) Start engine.		
			Between SM1 and chassis ground	Voltage	10 – 15 V
			1) Turn starting switch OFF. 2) Disconnect connector SM2.		
			Wiring harness between SM2 – chassis ground	Resistance	Max. 1 Ω
	2	Disconnection in wiring harness (Disconnection in wiring harness or defective contact in connector)	1) Turn starting switch OFF. 2) Disconnect connectors AL and SM1.		
			Wiring harness between AL (female) (1) – CN11 (7) – SM1	Resistance	Max. 1 Ω

Related circuit diagram



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Electrical circuit diagram



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