SEBM023810

SHOP MANUAL

KOMATSU®

D39EX, PX-21

MACHINE MODEL	SERIAL No.
D39EX-21	**1001 and up**
D39PX-21	**1001 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.

- D39EX, PX-21 mount the SAA4D102E-2 engine.
  For details of the engine, see the 102-2 Series Engine Shop Manual.

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WEIGHT TABLE

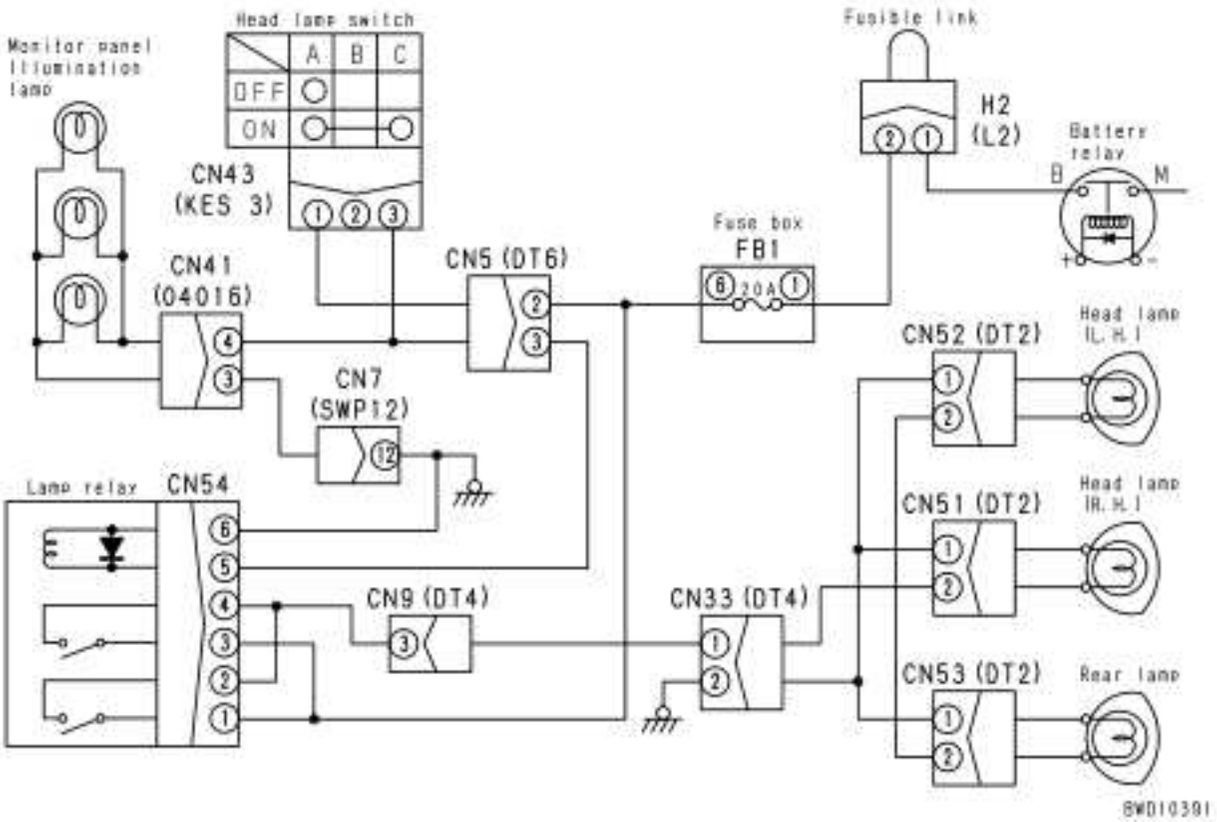
★ This Weight Table is for reference when handling components or when transporting the machine.

Unit: kg

Machine model	D39EX-21	D39PX-21
Serial No.	1001 and up	
Engine, damper assembly (not including water or oil)	485	485
• Engine assembly	400	400
• Damper assembly	27	27
• Engine related parts (engine mount, air cleaner, muffler, etc.)	58	58
Cooling assembly	186	186
• Radiator	96	96
• Oil cooler	42	42
• Charge air cooler	15	15
Fuel tank (not including fuel)	106	106
HST pump	124	124
HST motor (each side)	130	130
Final drive (each side)	162	162
Sprocket (each side)	38	38
Frame assembly	2,495	2,520
• Main frame	1,340	1,362
• Front underguard	8	8
• Rear underguard (including inspection window)	41	41
• Idler assembly (each side)	144	144
• Recoil spring assembly (each side)	105	105
• Track roller (each side)	35 x 6	35 x 6
• Carrier roller (each side)	15	15
Track shoe assembly		
• Single grouser shoe (460 mm)	760 x 2	760 x 2
• Single grouser shoe (635 mm)	—	925 x 2
• Swamp shoe (700 mm)	—	915 x 2
Hydraulic tank (not including hydraulic oil)	65	65
Hydraulic pump	6	6
Control valve		
• 3-spool valve	16	16
• 4-spool valve (with ripper)	19	—

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E-3. Related electrical circuit diagram



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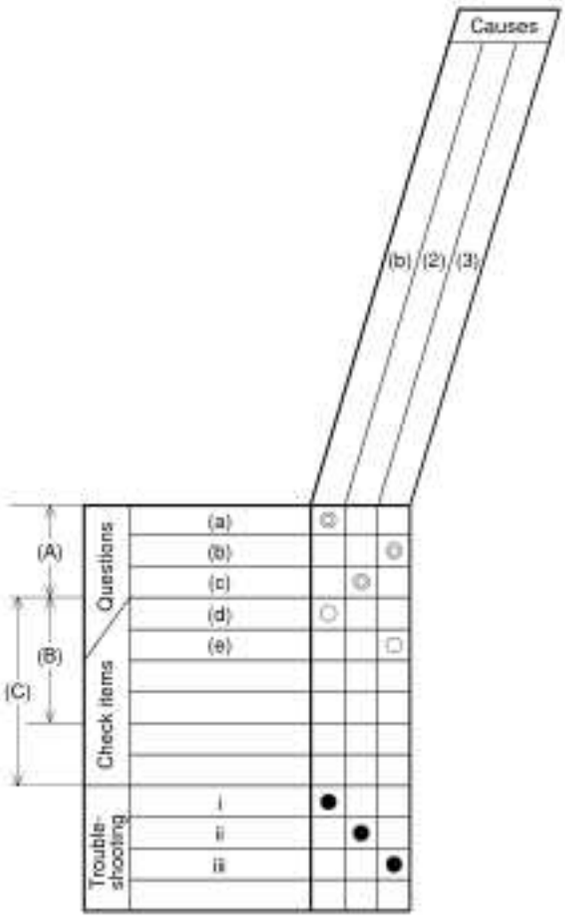
METHOD OF USING TROUBLESHOOTING CHARTS

This troubleshooting chart is divided into three sections: **questions, check items, and troubleshooting.**
The questions and check items are used to pinpoint high probability causes that can be located from the failure symptoms or simple inspection without using troubleshooting tools.
Next, troubleshooting tools or direct inspection are used to check the high probability causes to make final confirmation.

[Questions]
Sections (A) + (B) in the chart on the right corresponds to the items where answers can be obtained from the user. The items in (B) are items that can be obtained from the user, depending on the user's level.

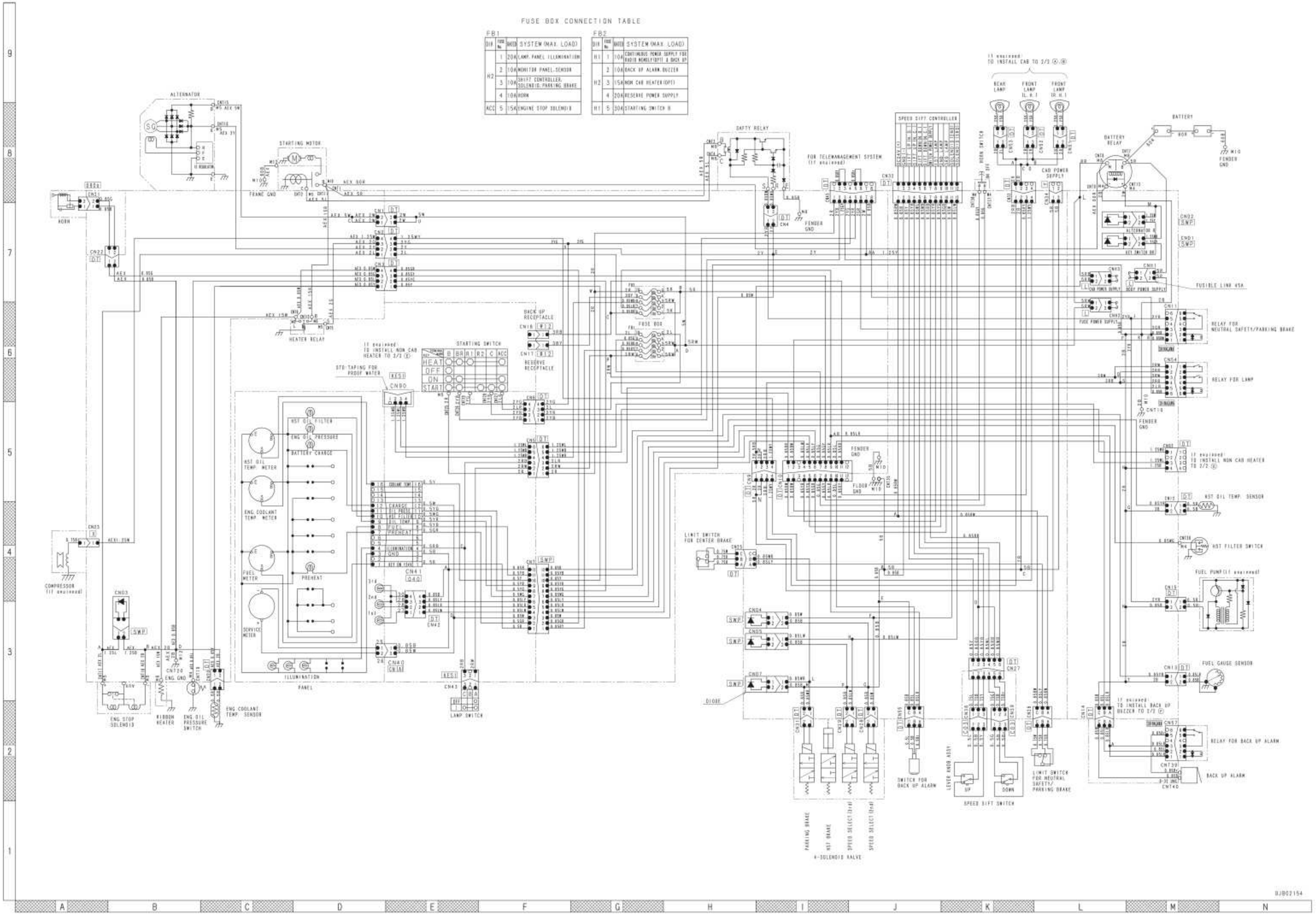
[Check items]
The serviceman carries out simple inspection to narrow down the causes. The items under (C) in the chart on the right correspond to this.
The serviceman narrows down the causes from information (A) that he has obtained from the user and the results of (C) that he has obtained from his own inspection.

[Troubleshooting]
Troubleshooting is carried out in the order of probability, starting with the causes that have been marked as having the highest probability form information gained from **[Questions]** and **[Check items]**.



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ELECTRICAL CIRCUIT DIAGRAM (1/2)



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