SEBM033209

SHOP MANUAL

KOMATSU®

WA250-5
WA250PT-5

Machine model	Serial number
WA250-5	**70001 and up**
WA250PT-5	**70001 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.

- WA250-5 mounts the SAA6D102E-2-A engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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	Causes		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	7	Grounding fault in wiring harness	1) Turn starting switch OFF. 2) Disconnect connectors L09, L110, L14, LT1, T09, J08, D05, FL2, and F07 and fuse terminal FS1 3) Connect T-adapter.			
			Wiring harness between fuse FS1 (13) and J05 (1), (6) and L14 (female) (1)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between fuse FS1 (13) and J05 (1), (7) and L09 (female) (2)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between L09 (female) (3) and L110 (female) (3)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between L14 (female) (3) and LT1 (male) (2) (☆)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between L14 (female) (4) and L110 (female) (1)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between L110 (female) (5) and J08 (14), (15) and D05 (female) (1)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between L110 (female) (5) and J08 (14), (16) and FL2 (male) (4)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between LT1 (female) (2) and T09 (female) (3) (☆)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			Wiring harness between FL2 (female) (4) and F07 (female) (1)	Between this wiring harness and chassis ground	Resistance	Min. 1 MΩ
			★ When grounding fault occurs in a wiring harness other than the ones marked with (☆), the fuse is broken.			

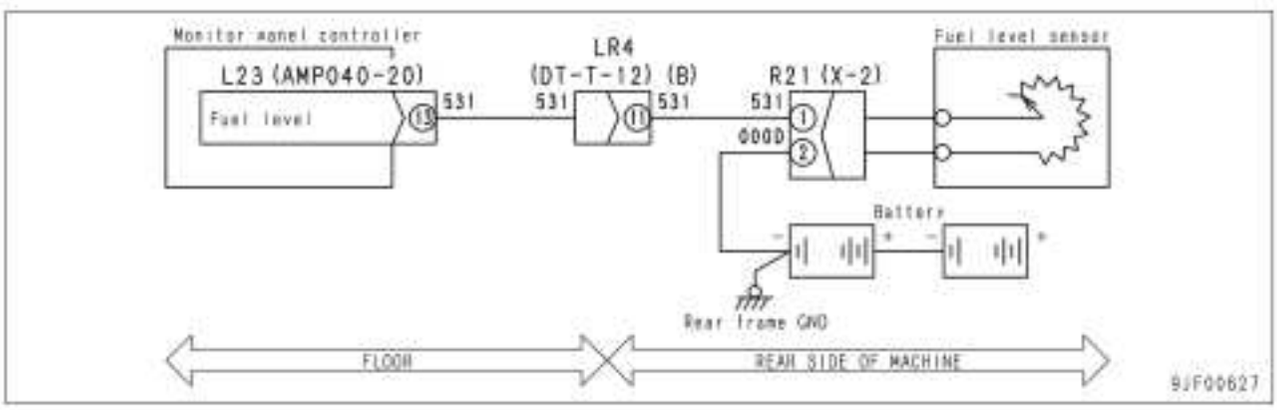
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Troubleshooting Code [MON-5] (The fuel level gauge does not rise or decrease.)

Action Code	Error Code	Controller Code	Trouble	The fuel level gauge does not rise or decrease.
-	-	-		
Description of Trouble	• An abnormality has occurred in the fuel level sensor circuit.			
Machine monitor or controller Reaction	• No reaction.			
Effect on Machine	• The fuel level gauge does not rise or decrease.			
Related Information	• The fuel level is displayed by real-time monitoring code 04202.			

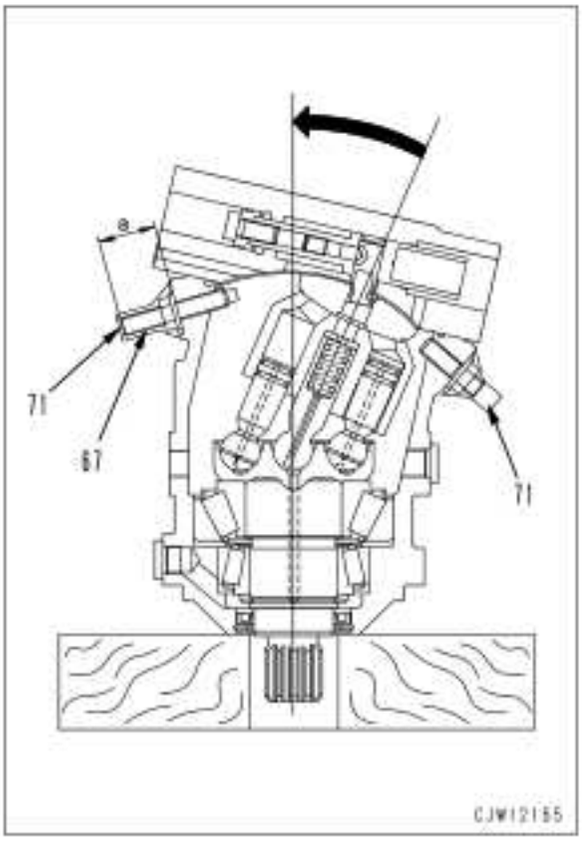
	Causes		Standard Value in Normal State and Remarks on Troubleshooting			
Possible Causes and Standard Values	1	Defective fuel level sensor	1) Turn starting switch OFF. 2) Disconnect connector R21. 3) Connect T-adapter.			
			Between R21 (Male) (1) and (2)	FULL	Resistance	1 - 5 Ω
				1/2 LEVEL	Resistance	29 - 36 Ω
				EMPTY	Resistance	103 - 117 Ω
	2	Wiring harness discontinuity (Disconnection or defective contact)	1) Turn starting switch OFF. 2) Disconnect Connectors L23, R21. 3) Connect T-adapter.			
			Wiring harness between L23 (Female) (13) and R21 (Female) (1)		Resistance	Max. 1 Ω
			Wiring harness between R21 (Female) (2) and chassis ground		Resistance	Max. 1 Ω
	3	Wiring harness ground fault	1) Turn starting switch OFF. 2) Disconnect Connectors L23, R21. 3) Connect T-adapter.			
			Wiring harness between L23 (Female) (13) and R21 (Female) (1)	Resistance between L23 (Female) (13), R21 (Female) (1) and chassis ground		Min. 1 MΩ
	4	Defective machine monitor	1) Turn starting switch OFF. 2) Disconnect connector L23. 3) Connect T-adapter.			
			Between L23 (Female) (13) and Chassis ground	FULL	Resistance	1 - 5 Ω
				1/2 LEVEL	Resistance	29 - 36 Ω
				EMPTY	Resistance	103 - 117 Ω

Related circuit diagram

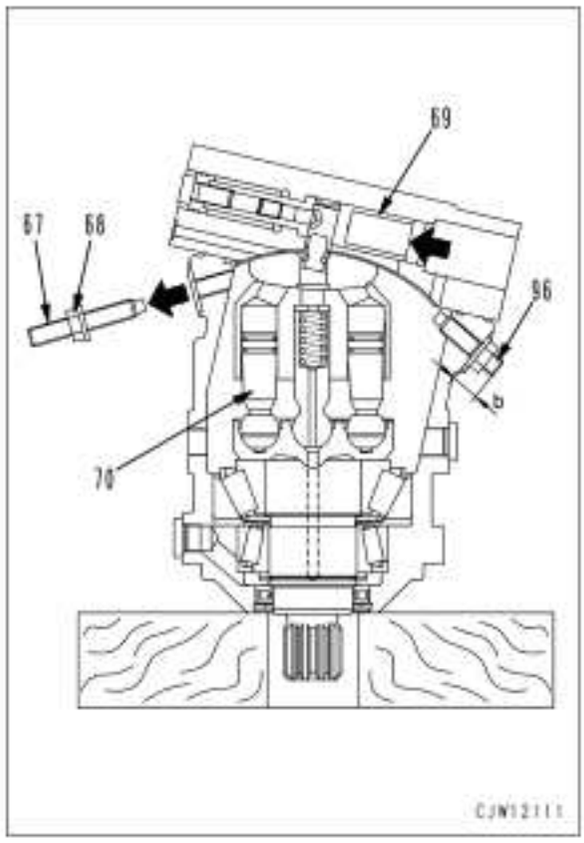


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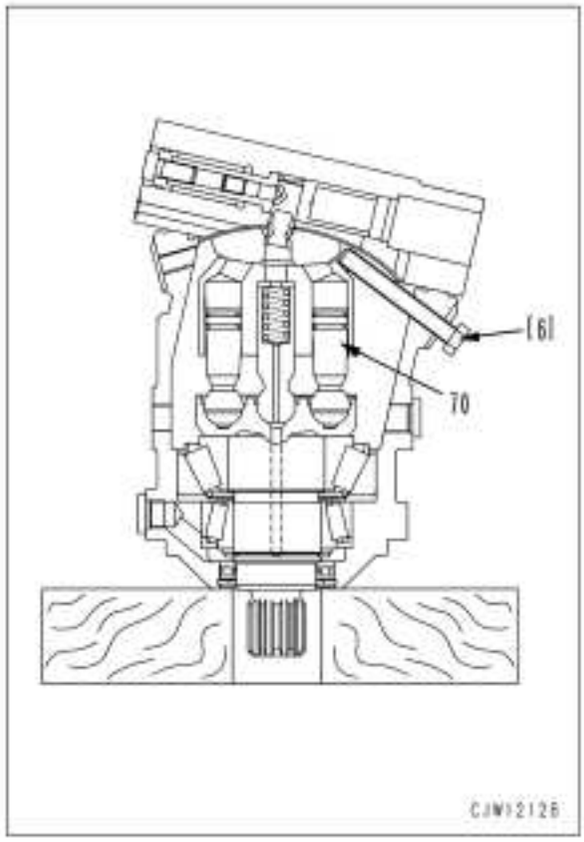
4. Preparation of removal of port plate (6) assembly (Common to HST motors 1 and 2)
   1) Break and remove plastic cap (71) and check installed dimension (a) of Qmin-screw (67).



   2) Loosen locknut (68) and remove Qmin-screw (67).
   3) Push piston (69) to set the angle of rotary group (70) to 0 degree.
   4) Break and remove plastic cap (71) and check installed dimension (b) of Qmax-screw (96).
   5) Remove Qmax-screw (96).
      ★ Plastic cap (71) is used to prevent rusting. Since a spare for it is not supplied, apply paint or take another rust-preventive measure after assembling.

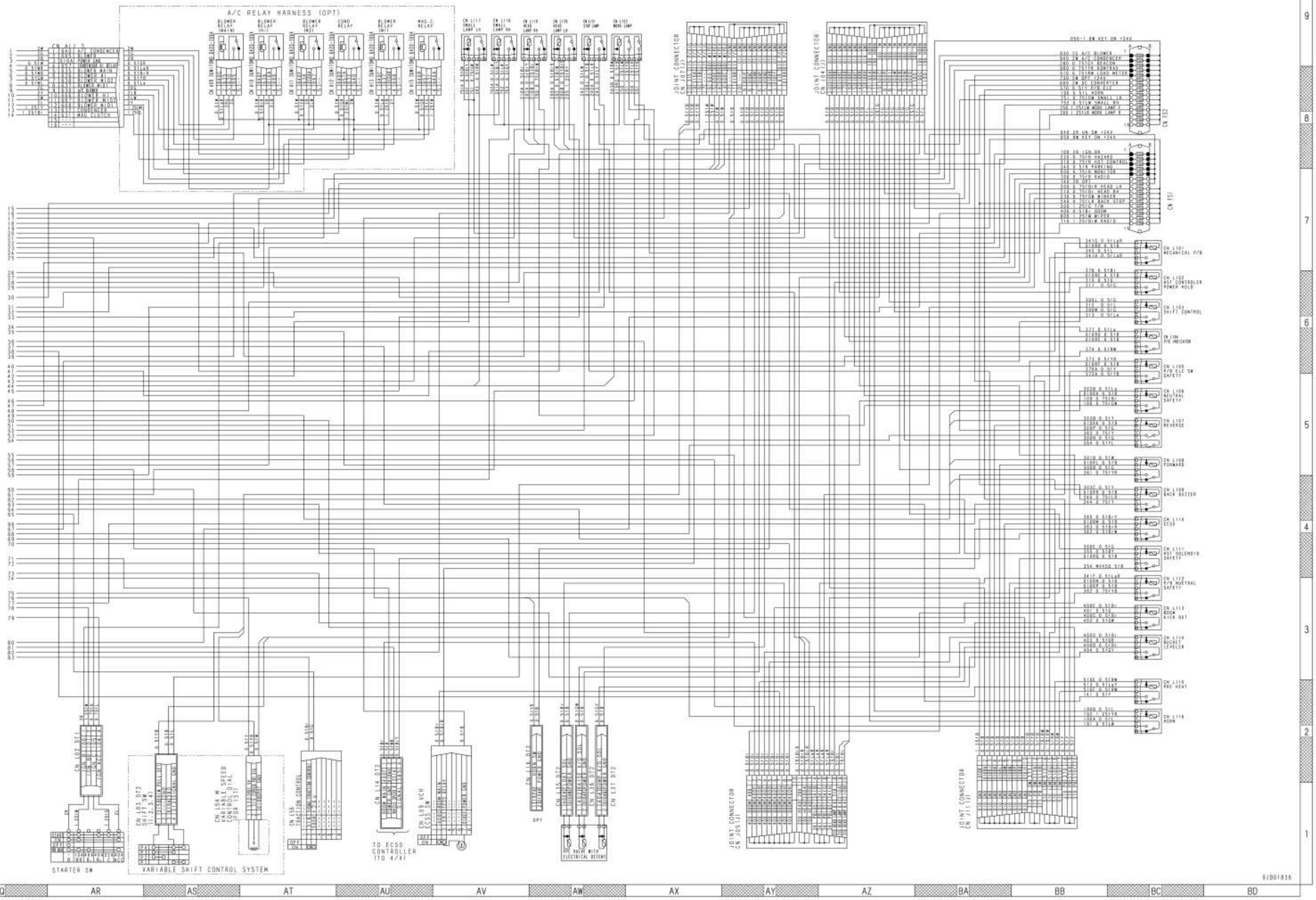


   6) Insert screw [6] to Qmax-screw and fix rotary group (70).
      screw [6] : M12 x 100 mm or longer.



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ELECTRICAL CIRCUIT DIAGRAM 1/4 (4/4)
(Machines equipped with ROPS cab)



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