VEBM240100

SHOP MANUAL

KOMATSU®

WA320-5H

MACHINE MODEL

WA320-5H

SERIAL NUMBER

H50051 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.

- WA320-5H mounts the SAA6D102E-2-A engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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1. Front axle
2. Tension bolt
3. Front frame
4. Center hinge pin
5. Rear axle
6. Rear frame
7. Additional counterweight (If equipped)
8. Counterweight

Outline

- Since front axle (1) receives forces directly during work, it is fixed to front frame (3) directly with tension bolts (2).
- Rear axle (5) rocks at the center of rear frame (6) so that each tire will keep in contact with ground even when the machine travels on soft ground.
- Front frame (3) and rear frame (6) are connected by center hinge pin (4) with the bearing between them. The steering cylinders on both sides connect front frame (3) and rear frame (6) and move to adjust the bending angle, or the turning radius.

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BEFORE TROUBLESHOOTING CODE DISPLAY

FAILURE CODE AND POSSIBLE CAUSES TABLE

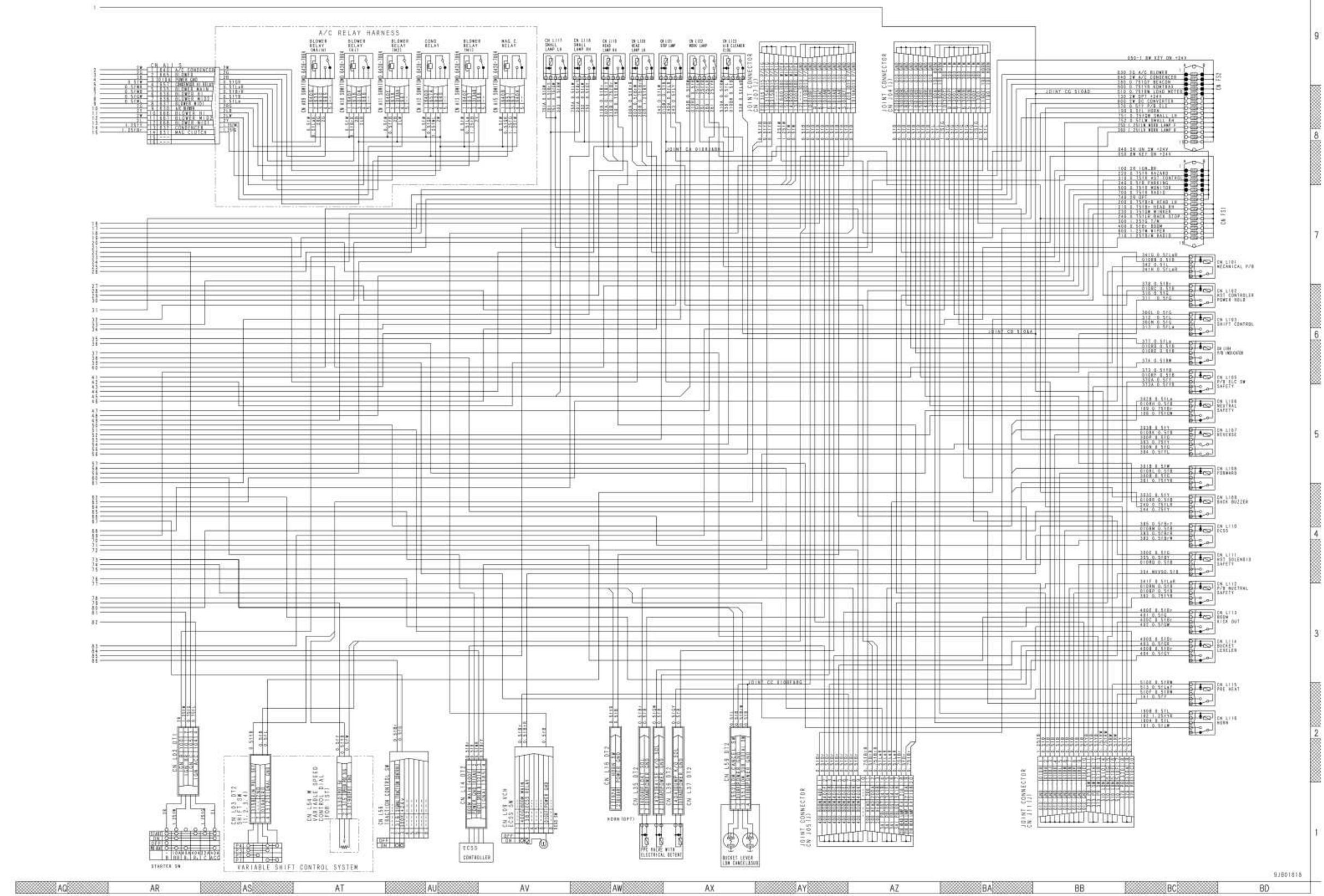
Failure code (*): Only load meter specification (If equipped)	Action code	Possible causes																						
		Defective machine monitor	Defective HST controller	Defective starting switch	Defective monitor panel mode selector switch 1 ■	Defective monitor panel mode selector switch 1 ◇	Defective monitor panel mode selector switch 2 <	Defective monitor panel mode selector switch 2 >	Defective forward-reverse lever	Deterioration of battery	Defective battery relay	Defective fuse/fusible link	Defective alternator	Clogging of air cleaner	Defective air cleaner clogging sensor	Defective engine speed sensor	Defective HST motor 2 solenoid	Defective HST motor 1 solenoid	Defective clutch solenoid	Lowering of engine oil pressure	Defective engine oil pressure sensor	Lowering of engine oil level	Defective engine oil level sensor
(Codes related to HST controller)																								
989F00	E00		●																					
DHH1KX	E03		●																					
DLE2LC	E03		●													●								
DW26KZ	E03		●						●								●							
DX19KZ	E03		●															●						
DX20KZ	E03	●	●																●					
(Codes related to monitor)																								
15B0NX	E01	●																						
2G42ZG	E03	●																						
989F00	E00		●																					
989FN1	E02	●																●	●					
AA1ANX (*)	E01	●												●	●									
AB00L6	E03	●											●											
AB00MA	E03	●								●	●													
B@BAZG	E01	●																		●	●			
B@BAZK (*)	E01	●																				●	●	
B@BCNS	E02	●																						
B@BCZK	E01	●																						
B@C7NS	E02	●																						
B@CRNS	E02	●																						
D5ZHL6	E01	●		●																				
DAF0KT	E03	●																						
DAF3KK (*)	E03	●																						
DAF5KP (*)	E01	●																						
FAF6KP (*)	E01	●																						
DAJ0KR	E03	●	●																					
D182KZ (*)	E01	●																						
D1B0KB (*)	E01	●																						
DD1CLD (*)	E01	●																						
DD15LD	E01	●			●																			
DD16LD	E01	●				●																		
DD17LD	E01	●					●																	
DD18LD	E01	●						●																
DDK3KB	E03	●							●															
DDS5L6	E03	●							●															
DDY0LD (*)	E01	●																						
DGE2KX	E01	●																						
DGE3L6	E01	●																						
DGH1KX	E01	●																						
DGR1KX	E01	●																						
DGR4KA	E01	●																						
DHE4L6	E01	●																			●			
DHPCKX (*)	E01	●																						
DHPDKX (*)	E01	●																						
DKA0KX (*)	E01	●																						
DV00KB (*)	E01	●																						

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Possible Causes and Standard Values	Causes		Standard Value in Normal State and Remarks on Troubleshooting			
	10	Wiring harness discontinuity (Disconnection or defective contact) ★ Starting switch related harness	1) Turn starting switch OFF. 2) Disconnect connector L02, D07, terminal R03 L25 and fuse FS1. 3) Connect T-adapter.			
			Wiring harness between L02 (Female) (1), FS1 (1) and R03		Resistance	1 Ω and below
			Wiring harness between L02 (Female) (2) and D07 (Female) (1)		Resistance	1 Ω and below
			Wiring harness between L02 (Female) (2) and L25 (Female) (10)		Resistance	1 Ω and below
	11	Wiring harness discontinuity (Disconnection or defective contact) ★ Directional lever related harness	1) Turn starting switch OFF. 2) Disconnect connector L15, terminal R06 and fuse FS1. 3) Connect T-adapter.			
			Wiring harness between L15 (Female) (1), FS1 (2) and R06		Resistance	1 Ω and below
			Wiring harness between L15 (Female) (3) and L106 (Female) (1)		Resistance	1 Ω and below
			Wiring harness between L106 (Female) (2) and chassis ground		Resistance	1 Ω and below
	12	Hot short-circuiting between harnesses	1) Turn starting switch OFF. 2) Disconnect connector E01, E02, D07. 3) Connect T-adapter. 4) Turn starting switch ON.			
			Wiring harness between E01 (Female) (2), E02 (Female) (1) and D07 (Female) (3)	Voltage between E01 (Female) (2), E02 (Female) (1) and chassis ground		1V and below
	13	Defective starting switch	1) Disconnect starting switch terminal. 2) Solid part check.			
			Turn starting switch START.	Between terminal B and C		1 Ω and below
	14	Defective starting motor	1) Solid part check.			
			• If the check of the individual part shows that it is normal, the starting motor is normal.			
	15	Defective alternator	Between alternator terminal R [E02 (1)] and chassis ground	Engine started (Throttle 1/2 and above)	Voltage	26.5 - 29V
				Engine stopped	Voltage	1V and below
	16	Defective short connector TEL	1) Turn starting switch OFF. 2) Disconnect connector TEL. 3) Connect T-adapter.			
			Wiring harness between TEL (Female) (7) and (8)		Resistance	1 Ω and below

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ELECTRICAL CIRCUIT DIAGRAM 2/5 (4/4)
(Machines equipped with load meter)



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