VEBM934100

SHOP MANUAL

KOMATSU®

WA150-5

MACHINE MODEL	SERIAL NUMBER
WA150-5H	**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.

- WA150-5 mounts the SAA4D102E-2 engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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Check or measurement item	Symbol		Part No.	Part Name	Q'ty	Remarks
Accumulator charge pressure	C	1	799-101-5002	Hydraulic tester	1	Pressure gauge: 2.5, 5.9, 39.2, 58.8MPa {25, 60, 400, 600kg/cm²}
			790-261-1203	Digital type hydraulic tester	1	Pressure gauge: 58.8MPa {600kg/cm²}
Brake oil pressure	K	1	793-605-1001	Brake test KIT	1	
		2	790-101-1430	Coupler	1	
		3	790-101-1102	Pump	1	
		4	793-463-1100	Stopper	1	
Wear of brake disc	J		799-203-8001	Gauge	1	Mounted on vehicle
Work equipment hydraulic pressure	C	1	799-101-5002	Hydraulic tester	1	Pressure gauge: 2.5, 5.9, 39.2, 58.8MPa {25, 60, 400, 600kg/cm²}
			790-261-1203	Digital type hydraulic tester	1	Pressure gauge: 58.8MPa {600kg/cm²}
	K	4	793-463-1100	Stopper	1	
Work equipment PPC oil pressure	C	1	799-101-5002	Hydraulic tester	1	Pressure gauge: 2.5, 5.9, 39.2, 58.8MPa {25, 60, 400, 600kg/cm²}
			790-261-1203	Digital type hydraulic tester	1	Pressure gauge: 58.8MPa {600kg/cm²}
		3	799-101-5220	Nipple	1	Size: 10 × 1.25 mm
			07002-11023	O-ring	1	
	K	4	793-463-1100	Stopper	1	
Bleeding air	C	6	799-401-3300	Adapter	1	Size: 04
Water temperature, oil temperature	P		799-101-1502	Digital thermometer	1	-99.9 – 1,299°C
Operating effort	H		79A-264-0021	Push-pull scale	1	0 – 294N {0 – 30kg}
			79A-264-0091	Push-pull scale	1	0 – 490N {0 – 50kg}
Stroke, hydraulic drift	H		Commercially available	Scale	1	
Work equipment speed	S		Commercially available	Stopwatch	1	
Voltage, resistance	T		Commercially available	Tester	1	
Troubleshooting of sensor and wiring harness	U	1	799-601-7400	T-adapter assembly	1	
			799-60-7330	Adapter	1	For S-16 (White)
		2	799-601-9000	T-adapter assembly	1	For DT type connector
		3	799-601-9710	T-adapter assembly	1	For HST controller
		4	799-601-9720	T-adapter assembly	1	For HST controller

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Troubleshooting Code [MON-1] (The parking brake indicator lamp does not light ON)

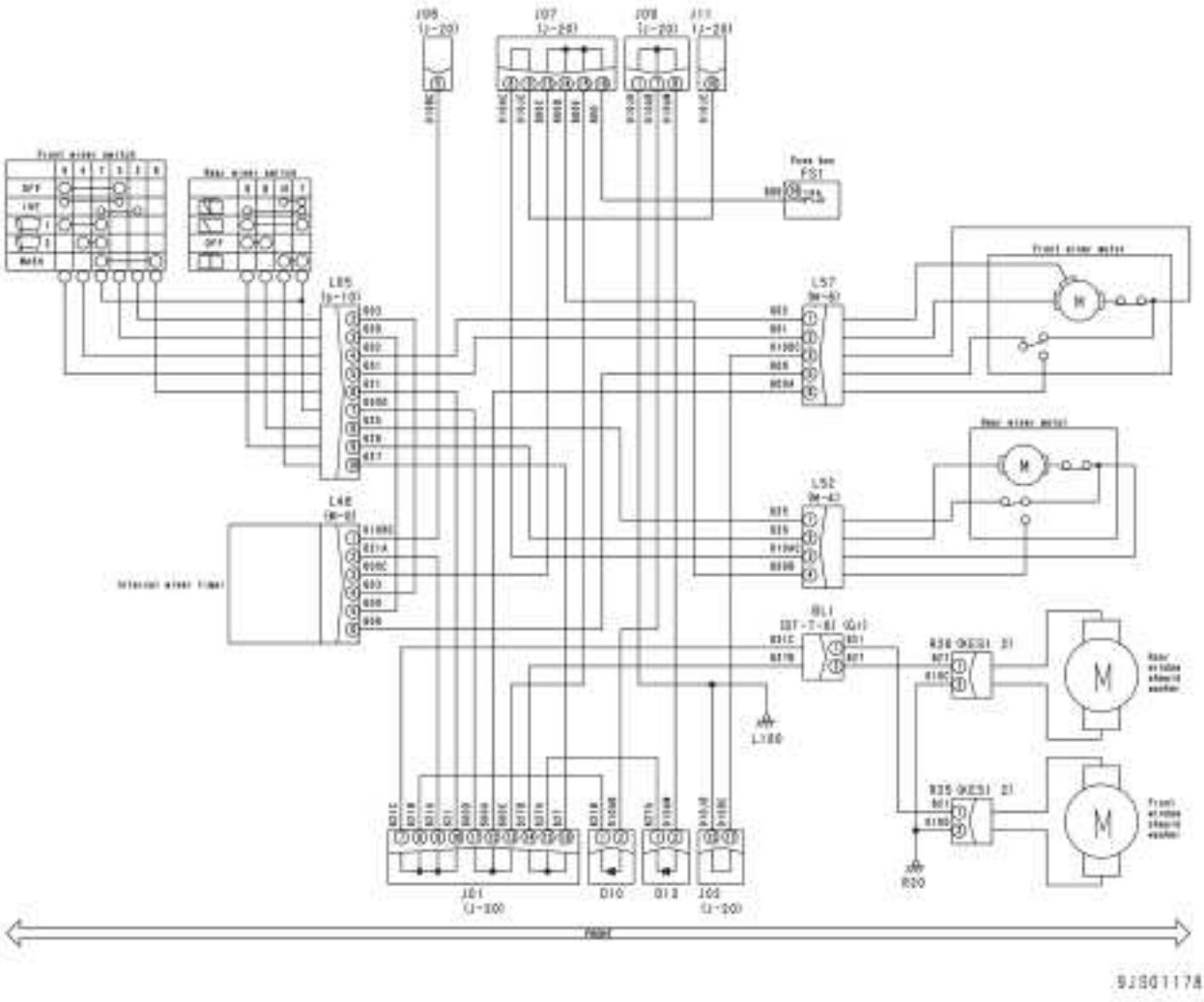
Action Code	Error Code	Controller Code	Trouble	The parking brake indicator lamp does not light ON
-	-	-		
Description of Trouble	• The parking brake indicator lamp does not light ON when the parking brake lever is pulled.			
Machine monitor or controller Reaction	• No reaction.			
Effect on Machine	• The parking brake indicator lamp does not light ON when the parking brake lever is pulled.			
Related Information	• If the parking brake does not work normally, carry out troubleshooting after carrying out the applicable troubleshooting.			

	Causes		Standard Value in Normal State and Remarks on Troubleshooting			
Possible Causes and Standard Values	1	Defective parking brake indicator lamp relay (L104)	1) Turn starting switch OFF. 2) Interchange relay (L104) with normal relay. 3) Turn starting switch ON. 4) Operate parking brake switch.			
			Does condition become normal when parking brake indicator lamp relay (L104) is interchanged with normal relay?	The condition is abnormal.		Relay (L104) is normal.
				The condition is normal.		Defective relay (L104)
			1) Turn starting switch OFF. 2) Disconnect connector L104. 3) Solid part check.			
			Between L104 (Male) (1) and (2)		Resistance	200 - 400Ω
			1) Turn starting switch OFF. 2) Disconnect connector L104. 3) Solid part check. 4) Applies impressed voltage between L104 (Male) (1) - (2)			
			Between L104 (Male) (3) and (5)	Applies 24V impressed voltage between L104 (Male) (1) - (2)	Resistance	Max. 1Ω
				Does not apply voltage between L104 (Male) (1) - (2)	Resistance	Min. 1MΩ
	2	Defective mechanical parking brake relay (L101)	1) Turn starting switch OFF. 2) Replace L101 with normal relay. 3) Turn starting switch ON. 4) Operate parking brake switch.			
			When mechanical parking brake relay (L101) is replaced, does condition becomes normal?	The condition is abnormal		Relay (L101) is normal.
				The condition is normal		Relay (L101) is defective.
			1) Turn starting switch OFF. 2) Disconnect connector L101. 3) Check relay unit.			
			Between L101 (male) (1) and (2)		Resistance	200 - 400Ω
			1) Turn starting switch OFF. 2) Disconnect connector L101. 3) Check relay unit. 4) Apply normal voltage between L101 (male) (1) and (2).			
			Between L101 (male) (3) and (4)	Apply 24 V between (1) and (2).	Resistance	Max. 1Ω
				Do not apply 24 V between (1) and (2).	Resistance	Min. 1MΩ

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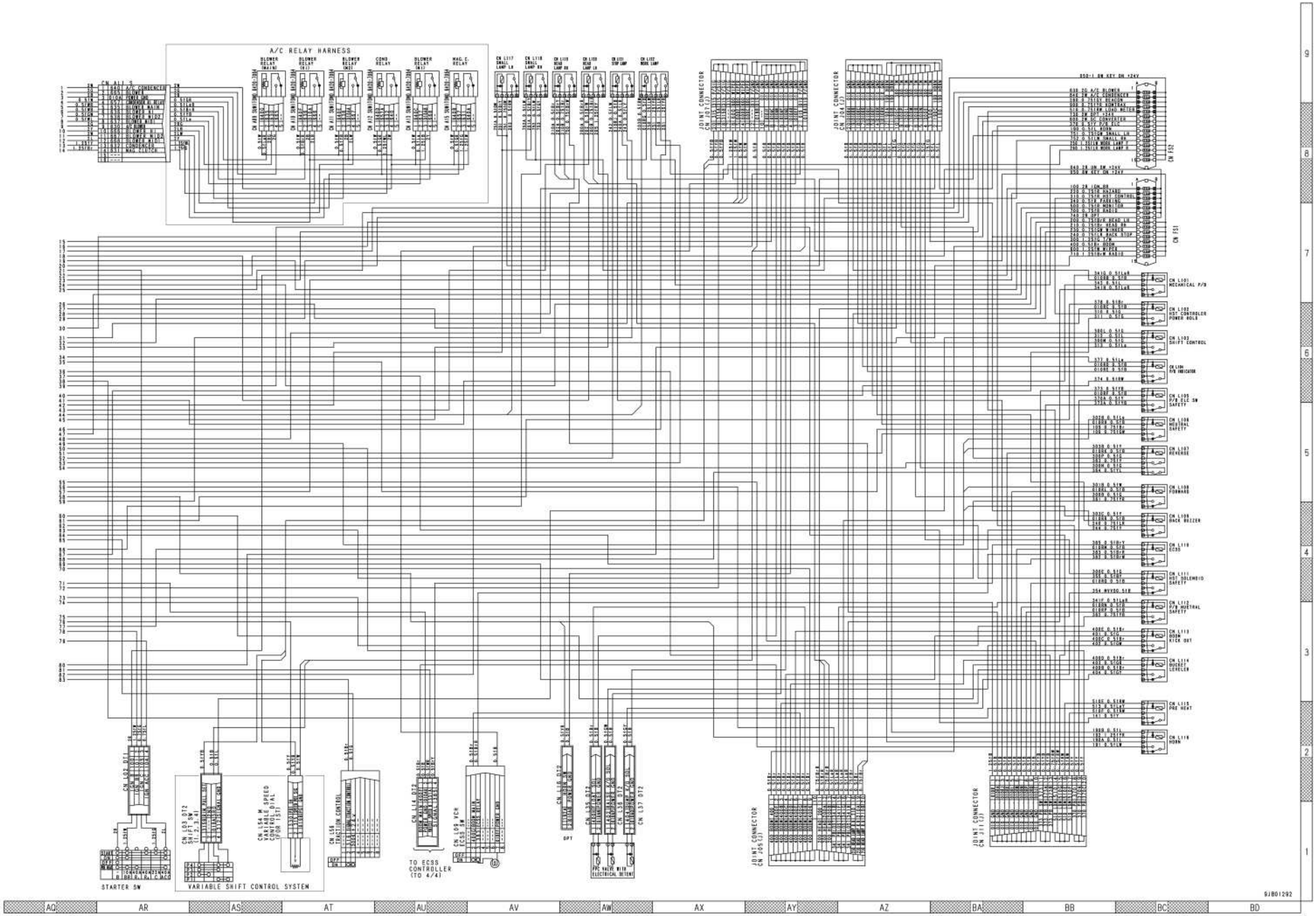
	Causes		Standard Value in Normal State and Remarks on Troubleshooting		
Possible Causes and Standard Values	4	Wiring harness ground fault	1) Turn starting switch OFF. 2) Disconnect connector L05, L48, L52, L57 and fuse FS1 terminal. 3) Connect T-adapter.		
			Wiring harness between L05 (Female) (8) and L52 (Female) (1)	Resistance between L05 (Female) (8), L52 (Female) (1) and chassis ground	Min. 1MΩ
			Wiring harness between L05 (Female) (9) and L52 (Female) (2)	Resistance between L05 (Female) (9), L52 (Female) (2) and chassis ground	Min. 1MΩ
			Wiring harness between fuse FS1 (14) and L05 (Female) (7)	Resistance between L05 (Female) (7) and chassis ground	Min. 1MΩ
			Wiring harness between fuse FS1 (14) and L52 (Female) (4)	Resistance between L52 (Female) (6) and chassis ground	Min. 1MΩ
			★ In the all above cases, the fuse is blown.		

Related circuit diagram



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



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