Shop Manual
Part I

VEBM180101

WA470-5H
WA480-5H

WHEEL LOADER

MODEL	SERIAL NUMBER
WA470-5H	WA470H50051 AND UP
WA480-5H	WA480H50051 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.

- WA470-5 and WA480-5 mount the SAA6D125-3 engine.
  For details of the engine, see the 125-3 Series Engine Shop Manual

© 2002 KOMATSU
All Rights Reserved
Printed in Europe 09/02

KOMATSU®

MidWestTech | Komatsu WM70-5H, WA480-5H Wheel Loader Service Manual | Publication VEBM180101
Order the manual at mid-west-tech.com >

Specifications

Machine model				WA470-5		WA480-5	
Serial No.				WA470H50051 and up		WA480H50051 and up	
Weight	Operating weight		kg	22,520		24,065	
	Distribution (front) SAE travel posture		kg	10,260		10,335	
	Distribution (rear) SAE travel posture		kg	11,260		13,730	
Performance	Bucket capacity (piled)		m^3	4.2		4.6	
	Rated load		kg	6,720		7,820	
				N mode	P mode	N mode	P mode
	Travel speed	FORWARD 1st	km/h	5.0	5.8	5.7	6.3
		FORWARD 2nd	km/h	9.4	11.2	11.0	12.1
		FORWARD 3rd	km/h	17.1	20.2	20.0	21.6
		FORWARD 4th	km/h	27.7	33.1	32.0	34.3
		REVERSE 1st	km/h	5.3	6.1	6.1	6.6
		REVERSE 2nd	km/h	10.1	11.9	11.7	12.8
		REVERSE 3rd	km/h	18.3	21.4	21.3	22.8
		REVERSE 4th	km/h	29.6	34.7	34.1	35.8
	Max. rimpull	FORWARD	kN {kg}	171.6 {17,500}	208.9 {21,300}	167.7 {17,100}	193.2 {19,700}
		REVERSE	kN {kg}	160.8 {16,400}	195.8 {19,970}	157.9 {16,100}	182.1 {18,570}
	Gradeability		deg	25		25	
	Min. turning radius	(Center of outside wheel)	mm	5,900		5,900	
		(tip of BOC)	mm	6,940/6,980		6,990/7,030	
Dimensions	Overall length (with BOC)		mm	8,815		9,155	
	Overall width (chassis)		mm	2,920		3,010	
	Bucket width (with BOC)		mm	3,170		3,170	
	Overall height (top of cab)		mm	3,395		3,500	
	Overall height (Bucket approx. raised to max.)		mm	5,895		6,175	
	Wheel base		mm	3,450		3,450	
	Tread		mm	2,300		2,300	
	Min. ground clearance		mm	460		525	
	Max. height of bucket hinge pin		mm	4,295		4,505	
	Dumping clearance (tip of BOC)		mm	3,205/3,120		3,300/3,205	
	Dumping reach (tip of BOC)		mm	1,260/1,305		1,370/1,410	
	Steering angle		deg	40		40	
	Bucket dump angle (max. height)		deg	45		49	
	Bucket tilt angle (travel posture)		deg	50		52	
	Bucket tilt angle (max. height)		deg	65		60	
	Digging depth (10° dump) (tip of BOC)		mm	420/380		395/355	

MidWestTech | Komatsu WM70-5H, WA480-5H Wheel Loader Service Manual | Public... Order the manual at mid-west-tech.com >

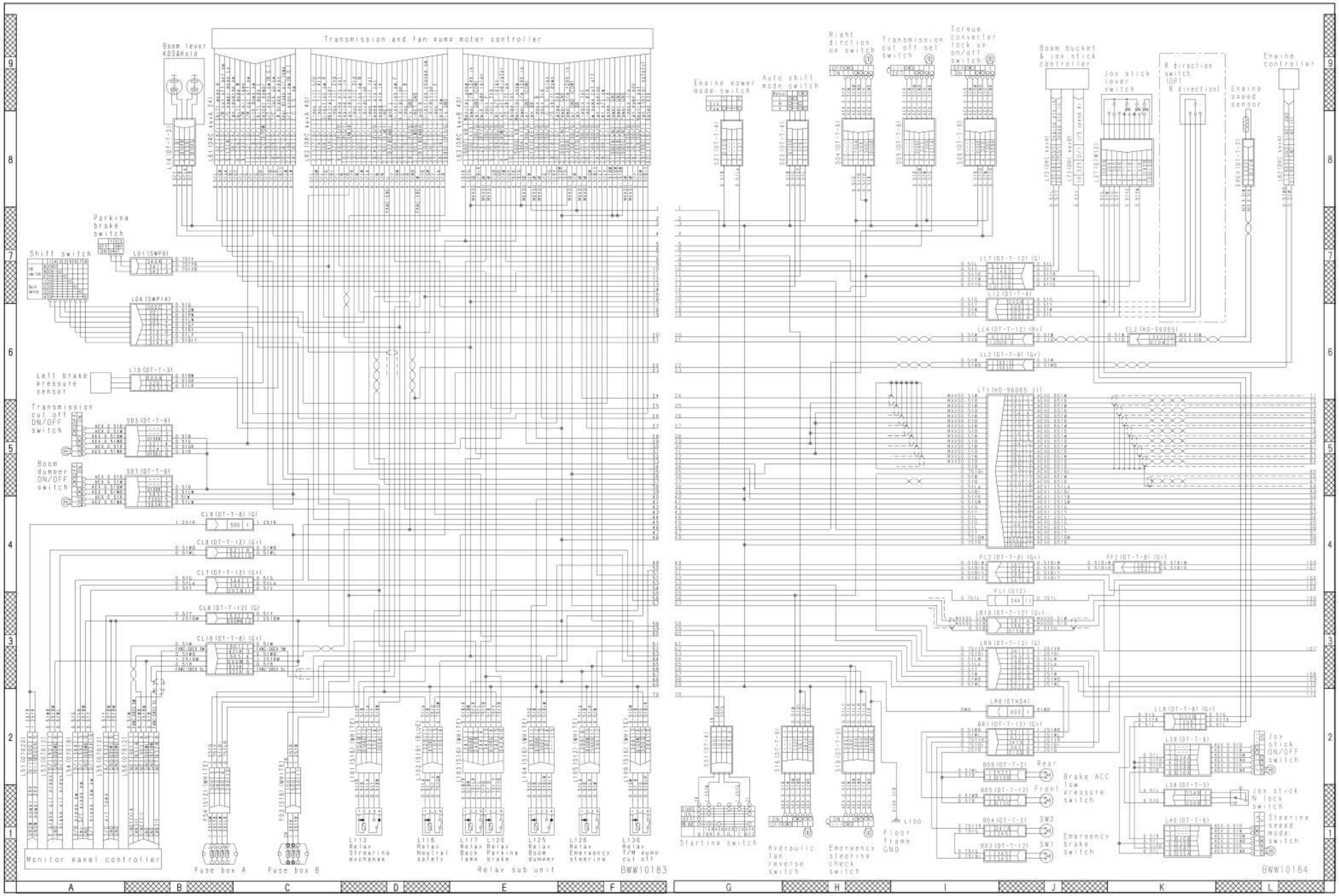
Action code [E-7-C]

Action Code	Error Code	Controller Code	Trouble	The clearance lamp does not light on (Small lamp)
E-7-C	—	—		
Description of Trouble	• Since a disconnection (Ground fault) occurs in the switch, lamp, or harness in the clearance lamp system, the clearance lamp does not light on.			
Controller Reaction	—			
Effect on Machine	• The clearance lamp does not light on (Small lamp).			
Related Information	—			

	Causes		Standard Value in Normal State and Remarks on Troubleshooting		
Possible Causes and Standard Values	1	Lamp fault	1) Turn starting switch OFF. 2) Disconnect the connector COMB1 (Left and right). 3) Connect t-adapter. 3) Turn starting switch ON.		
			Between COMB1 (1) (Left and right) – body (Lamp switch 1st row)	Voltage	20 – 30 V
	2	Lamp switch fault	1) Turn starting switch OFF. 2) Disconnect connector L02. 3) Connect t-adapter. 4) Turn starting switch ON.		
			Between L02 (1) – body	Voltage	20 – 30 V
			Between L02 (5) – body (Lamp switch 5th row)	Voltage	20 – 30 V
			1) Turn starting switch OFF. 2) Disconnect connector L02. 3) Connect t-adapter.		
			Between L02 (male) (1) – (5) (Lamp switch 1st row)	Resistance	1 Ω and below
			Others	Resistance	1 MΩ and above
	3	Harness disconnection or ground fault ★ Fuses A-1, A-14, and A-15 blow at occurrence of a ground fault.	1) Turn starting switch OFF. 2) Disconnect connectors L02, FS4, FS5, and left and right heads. 3) Connect t-adapter.		
			Harness between L02 (female) (1) – FS4 (female) (11)	Resistance	1 Ω and below
			Between L02 (female) (1) – FS4 (female) (11) harness – body	Resistance	1 MΩ and above
			Harness between L02 (female) (2) – FS5 (female) (4)	Resistance	1 Ω and below
			Between L02 (female) (2) – FS5 (female) (4) harness – body	Resistance	1 MΩ and above
			Harness between L02 (female) (2) – COMB1 right (1)	Resistance	1 Ω and below
			Between FS5 (female) (2) – COMB1 (female) (1) harness – body	Resistance	1 MΩ and above
			Harness between FS5 (female) (3) – COMB1 (female) (1)	Resistance	1 Ω and below
			Between FS5 (female) (3) – COMB1 right (female) (1) harness – body	Resistance	1 MΩ and above
			Harness between FS5 (male) (1) – (2) (Including fuse A-13)	Resistance	1 Ω and below
			Between FS5 (male) (1) – (2) harness – body	Resistance	1 MΩ and above
			Harness between FS5 (male) (1) – (3) (Including fuse A-12)	Resistance	1 Ω and below
			Between FS5 (male) (1) – (3) harness – body	Resistance	1 MΩ and above
			Between COMB (female) (Left and right) (3) – body	Resistance	1 Ω and below

Related circuit diagram (For others, see item E-7-A.)

MidWestTech | Komatsu WM70-5H, WA480-5H Wheel Loader Service Manual | Public... Order the manual at mid-west-tech.com >



MidWestTech | Komatsu WM70-5H, WA480-5H Wheel Loader Service Manual | Publication VEBM180101

Order the manual at mid-west-tech.com >