SHOP MANUAL

KOMATSU®

WA430-5

Machine model	Serial number
WA430-5	**60001 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.

- WA430-5 mounts the SAA6D125E-3 engine.
  For details of the engine, see the 125 Series Engine Shop Manual.

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2. Check the cut-off set switch

Item	Real-time monitor item	Pin position	ID
D-IN-3	D-IN--0------7 40905:***0***	L61-11	40905

The fourth digit is [0] if the T/M cut-off set switch has recognized itself as not ON.

Item	Real-time monitor item	Pin position	ID
D-IN-3	D-IN--0------7 40905:***1***	L61-11	40905

On the contrary, the digit is [1] if the switch has recognized itself as ON.
If [0] continues after you operated the switch, you can consider that the cut-off set switch is abnormal.

3. Check the left-hand brake pressure sensor
Check the left-hand brake pressure sensor with the engine kept operating.

Item	Real-time monitor item	Pin position	ID
Left brake pressure	LH BRAKE 41100:*.**MPa	L61-19	41100

If the pressure does not change after you stepped on/released the cut-off brake, you can consider that the sensor system is abnormal.
If you stepped on the left-hand brake fully, about 5.00Mpa {51kg/cm²} of pressure should be shown.
If you released the brake, a value less than 0.5Mpa {5kg/cm²} should be shown.
The pressure may change when you stepped on the brake even when the engine is stopped if some pressure remains in accumulator; if no pressure remains in it, a value less than 0.5Mpa {5kg/cm²} should be shown.

4. Check the cut-off pressure set value
Check the set value of the pressure at which T/M is cut off.
1) Set the cut-off position at a desired pressure by stepping on the cut-off brake, with the left-hand brake pressure sensor kept displaying.
Here, it is set at a pressure 1.5Mpa{15kg/cm²}.

Item	Real-time monitor item	Pin position	ID
Left brake pressure	LH BRAKE 41100: 1.50MPa	L61-19	41100

Set the cut-off position ([1.50] was selected arbitrarily).
Setting cut-off causes the pressure taken into memory when the set switch being pressed was released.

2) Check the cut-off pressure just set on the real-time monitor.

Item	Real-time monitor item	Pin position	ID
T/M cut-off pressure	CUT OFF 41200: 1.50MPa	Calculated value	41200

The result is accepted if the value is substantially the same with the value previously set.
Although, if the cut-off pressure has been set to less than 0.49Mpa{5kg/cm²}, 0.49Mpa{5kg/cm²} shall be adopted as the set value; if the cut-off pressure has been set to more than 4.5Mpa{45kg/cm²}, 4.5Mpa{45kg/cm²} shall be adopted as the set value.

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ERROR CODE [1500L1]

Action Code	Error Code	Controller Code	Trouble	Double engagement detected
E03	1500L1	TM		
Description of Trouble	• A fill signal is input when double engagement is detected.			
Controller Reaction	• No reaction.			
Effect on Machine	–			
Related Information	–			

Possible Causes and Standard Values	Causes	Standard Values in Normal State and Remarks on Troubleshooting
	★ Refer to Error Codes 15SAL1, 15 SBL1, 15SEL1, 15SFL1, 15SGL1 and 15SHL1.	

Related Circuit Diagram

★ Refer to Error codes 15SAL1, 15 SBL1, 15SEL1, 15SFL1, 15SGL1 and 15SHL1.

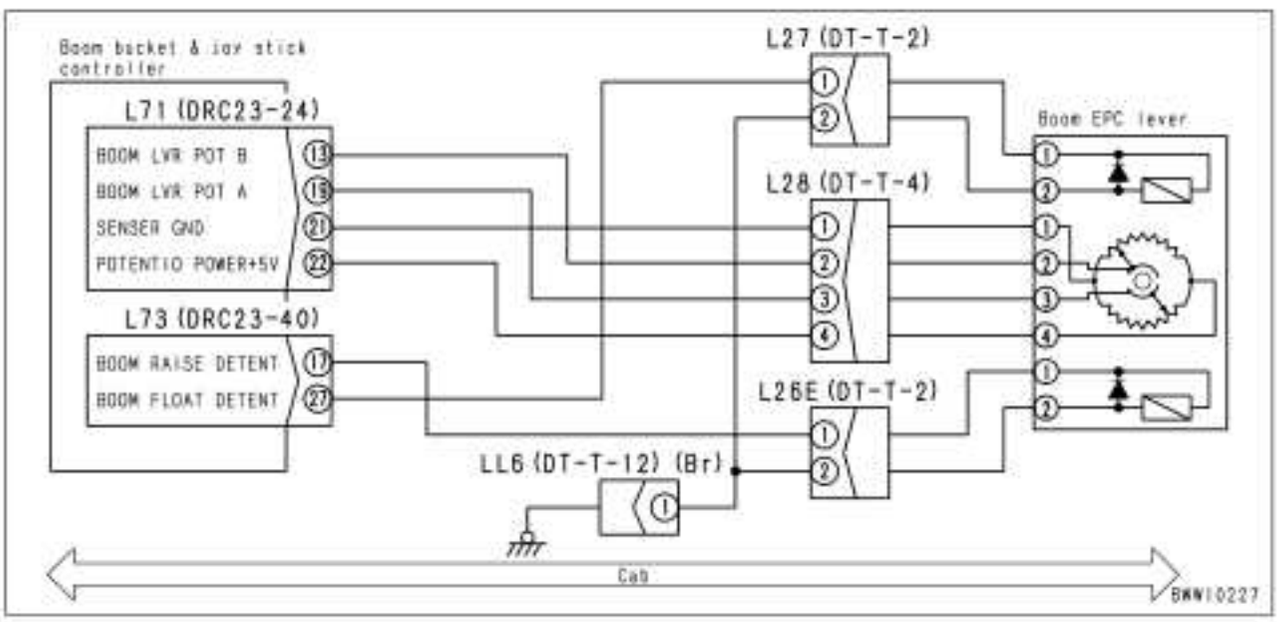
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ERROR CODE [DWN6KA]

Action Code	Error Code	Controller Code	Trouble	Lift arm RAISE magnet detent system disconnection
E01	DWN6KA	WRK		
Description Of Trouble	• The detent cannot be controlled due to the lift arm RAISE magnet detent system disconnection.			
Controller Reaction	• Stops output to the magnet detent solenoid. • Stops the remote RAISE function. • Stops the output of the remote positioner RAISE lamp.			
Effect on Machine	• The detent does not work but normal operation is possible.			
Related Information	• Can be checked with the monitoring function (Code: 40916).			

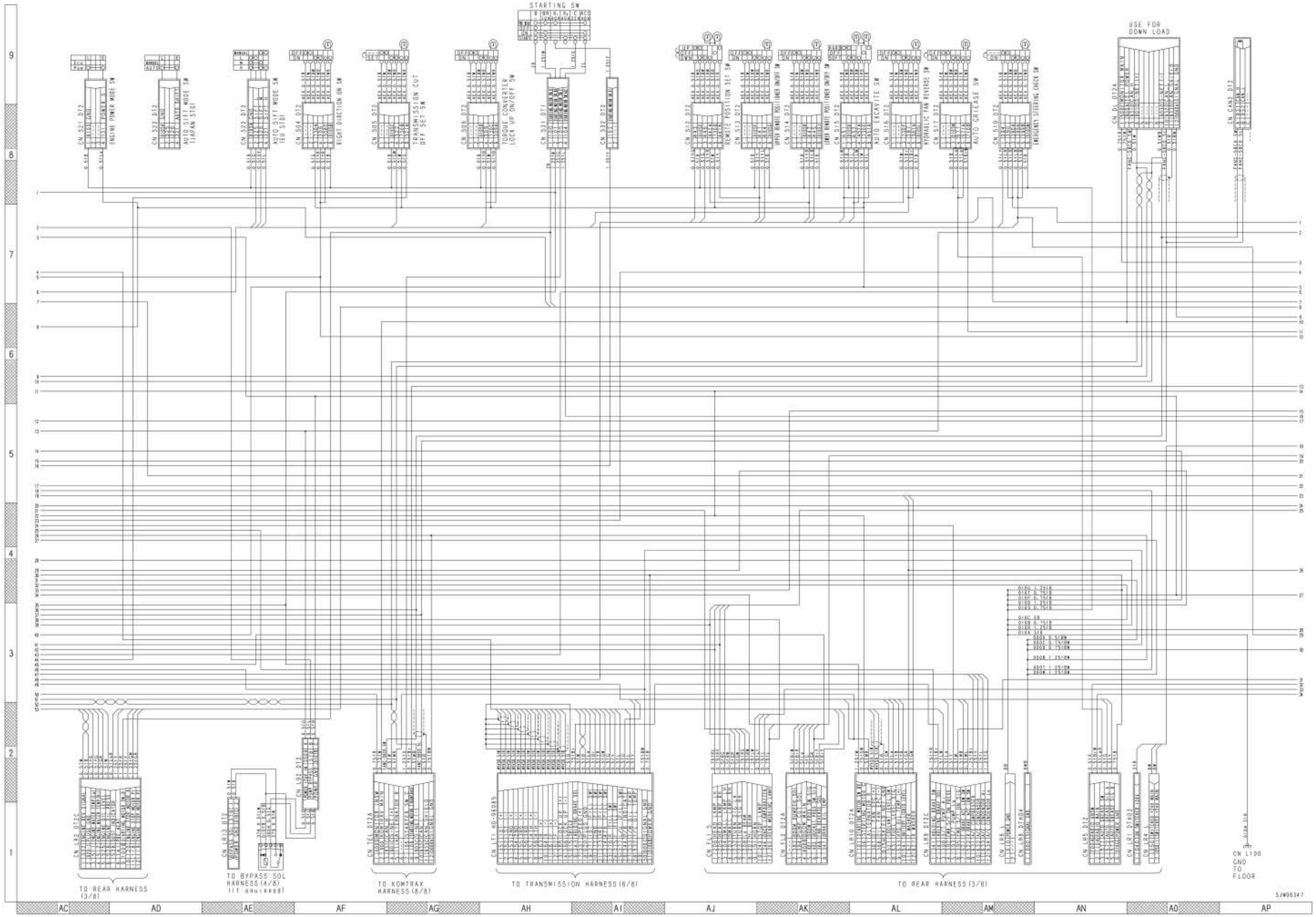
	Causes		Standard Value in Normal State and Remarks on Troubleshooting		
Possible Causes and Standard Values	1	Defective lift arm RAISE magnet detent	1) Turn starting switch OFF. 2) Disconnect connector L26E. 3) Connect T-adapter.		
			Between L26E (Male) (1) - (2)	Resistance	35 - 45 Ω
			Between L26E - body	Resistance	1 MΩ and above
	2	Wiring harness discontinuity (Disconnection or defective contact)	1) Turn starting switch OFF. 2) Disconnect connectors L73 and L26E. 3) Connect T-adapter.		
			Wiring harness between L73 (Female) (17) - L26E (Female) (1)	Resistance	1 MΩ and below
	3	Defective work equipment controller	1) Turn starting switch OFF. 2) Disconnect connector L26E. 3) Connect T-adapter.		
			Wiring harness between L73 (Female) (17) - L26 (Female) (1)	Resistance	1 Ω and below
			1) Turn starting switch OFF. 2) Disconnect connector L73. 3) Connect T-adapter. 4) Turn starting switch ON.		
			Between L73 (17) - body — Lever neutral	Voltage	1 V and below
			Between L73 (17) - body — Lever maximum raise position	Voltage	17 - 30 V

Related circuit diagram



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ELECTRICAL CIRCUIT DIAGRAM 2/8 (3/4)



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