FAILURE CODE [DKA1KA]

Action level	Failure code	- Failure	Bucket Angle Sensor Open Circuit Or Ground Fault			
L01	DKA1KA		(Work equipment controller system)			
Detail of fail- ure	Due to open circuit or ground fault in bucket angle sensor system, bucket angle sensor signal voltage is lower than the normal range. (Bucket angle sensor signal voltage0.3 V and below)					
Action of controller	 Judges that bell crank angle is small. Disables bucket positioner function. Disables semi-auto digging function. Disables bucket detent. If cause of failure disappears, machine becomes normal by itself. 					
Phenomenon on machine	 Bucket positioner function is defective (bucket does not stop). Semi-auto digging system malfunctions (does not work). Komatsu SmartLoader Logic function is defective. (Since engine control is not optimized, fuel consumption gets worse.) 					
Related information	 Input voltage from bucket angle sensor can be checked with monitoring function. (Code: 55601) Angle of bucket angle sensor can be checked with monitoring function. (Code: 55600) After completion of repair, check if the failure code is cleared by the following procedure. Procedure: Turn the starting switch to ON position. 					

No.	Cause	Procedure, measuring location, criteria and remarks				
1	Defective 5 V sensor power supply system	If failure code [DB95KX] is also displayed, perform troubleshooting for it first.				
		Turn the starting switch to OFF position.				
		2. Disconnect connector F32, and connect T-adapter to female side.				
		3. Turn the starting switch to ON position.				
		REMARK				
		If power supply voltage is abnormal, proceed to check on cause 3 and after.				
		Voltage	Between F32 (female) (C) and (A)	4.8 to 5.2 V		

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No.	Cause	Procedure, measuring location, criteria and remarks					
		1. Turn the	e starting switch to OFF pos				
2	Defective bucket angle sensor (internal open cir- cuit or short circuit)	Disconnect connector F32, and connect T-adapter to male side.					
			Between F32 (male) (A) and (C)		4 to 6 kΩ		
		D	Between F32 (male) (A) and ground		Min. 1 MΩ		
		Resistance	Between F32 (male) (B) and ground		Min. 1 MΩ		
			Between F32 (male) (C) and ground		Min. 1 MΩ		
		REMARK					
		 Voltage is measured with wiring harness connected. Accordingly, if the voltage is abnormal, the wiring harness may be defective. 					
		Check that the wiring harness is not defective, and then judge whether the sensor is defective or not.					
		1. Turn the starting switch to OFF position.					
		2. Insert T-adapter into connector F32.					
		3. Turn the starting switch to ON position.					
		4. Move bu	4. Move bucket lever to perform troubleshooting.				
				Always	2.5 to 4.7 V		
		Voltage	Between F32 (B) and (A)	Full TILT	4.2 to 4.7 V		
				Full DUMP	2.5 to 3.0 V		
	Open circuit in wiring harness (wire breakage or defective contact)	1	e starting switch to OFF pos	sition.			
3		 Disconnect connectors L71, L72, and F32, and connect T-adapters to each female side. 					
			Between F32 (female) (A) and L71 (female) (4)		Max. 1 Ω		
		Resistance	Between F32 (female) (B) and L72 (female) (36)		Max. 1 Ω		
			Between F32 (female) (C) and L71 (female) (22) Max. 1		Max. 1 Ω		
	Ground fault in wiring harness (contact with ground circuit)	Turn the starting switch to OFF position.					
4		2. Disconnect connectors L71, L72, and F32, and connect T-adapter to any female side.					
		Resistance	Between F32 (female) (B) a (female) (36) and ground	and ground, or between L72	Min. 1 MΩ		
	Defective work equip- ment controller	If no failure is found by above checks, work equipment controller is defective. • Reference					
		Turn the starting switch to OFF position.					
		2. Insert T-adapter into connector L72.					
		Set work equipment lock switch to LOCK position.					
		4. Turn the starting switch to ON position.					
		5. Operate	bucket lever to perform trou				
		Voltage	Between L72 (36) and ground	Continuous	2.5 to 4.7 V		
				TILT operation to stroke end	4.2 to 4.7 V		
				DUMP operation to stroke end	2.5 to 3.0 V		

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