CEBM005403

Shop Manual

KOMATSU®

avance® plus

WA500-3LK

WHEEL LOADER

SERIAL NUMBERS **WA500-3LK** **A71001** and UP

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★ For further detail information, refer to Engine Shop Manual.

★ Heed the following precautions when referring to the Standard Value Tables for testing, adjusting and troubleshooting:

A. The standard values in tables are those established for a new machine and are given as reference values for the point at which the machine is shipped from the factory. These values should be used only as a guide when estimating wear after the machine is operated and when carrying out repairs.

B. Permissible values shown in the tables are estimations based on the results of test performed on the machines shipped from the factory, so they should be used together with the information on the repair condition and other information such as the operating history of the machine itself when judging the condition of the machine.

C. These standard values **do not** form a basis for judging claims.

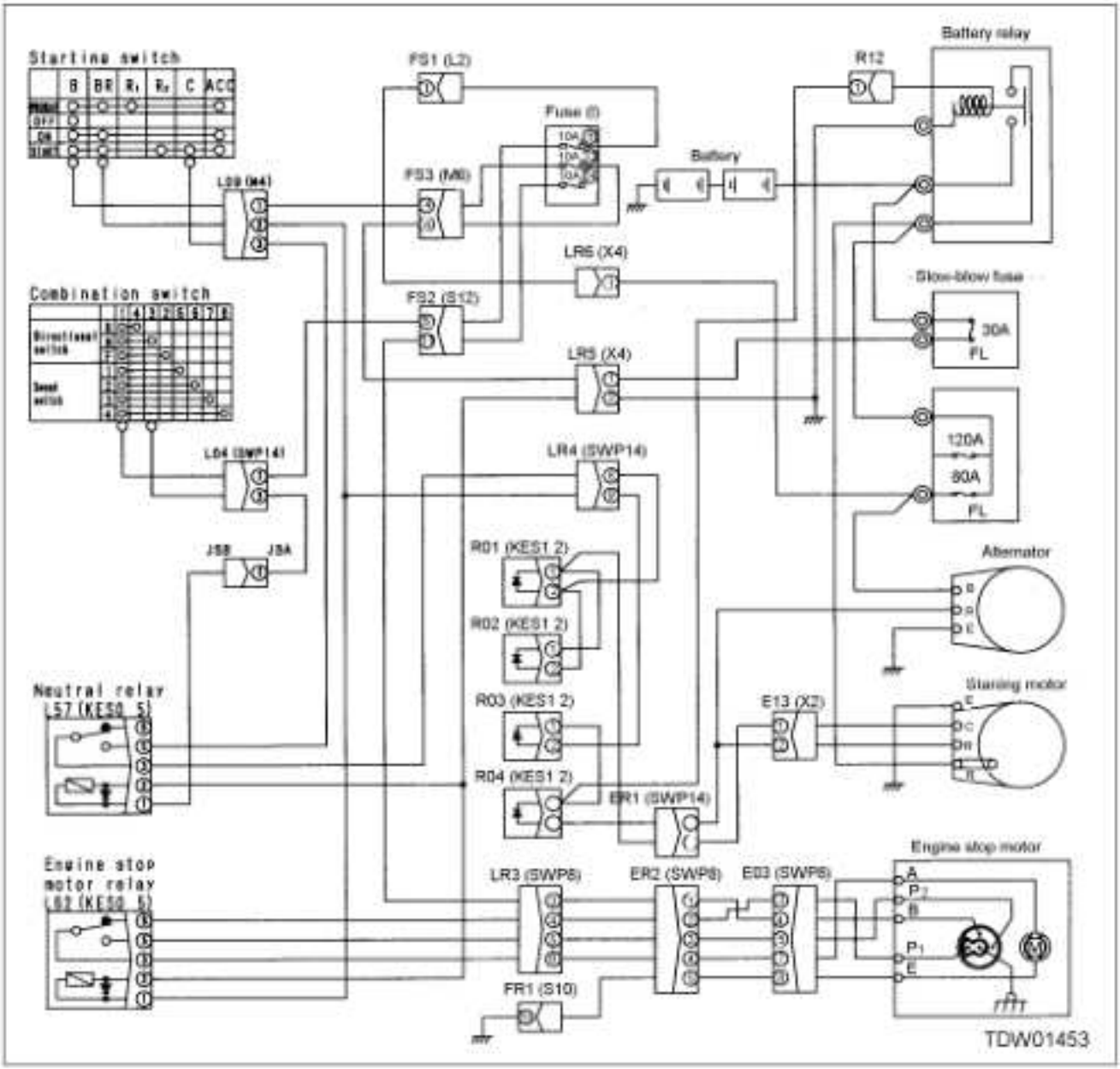
WARNING! Before testing, adjusting, or troubleshooting, park the machine on level ground, install the safety bar, and use blocks to prevent the machine from moving.

WARNING! When working with others, always use signals and keep unauthorized people away from the machine.

WARNING! Wait for the engine coolant water to cool before checking the coolant level. If the radiator cap is removed while the coolant is still hot, the coolant will spurt out and cause burns. Be careful to stay away from the fan, fan belt and other moving parts

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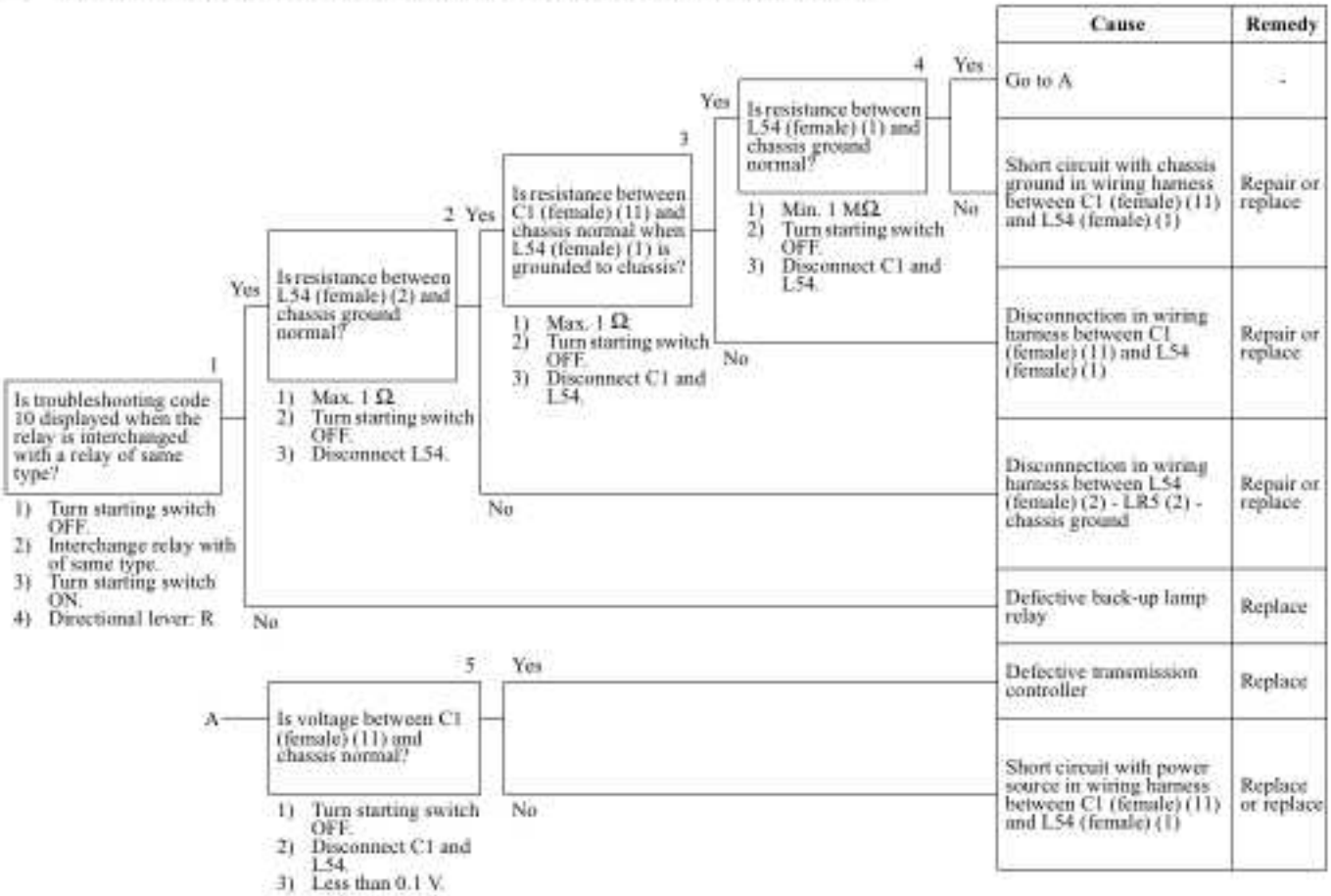
E-2 Related electrical circuit diagram



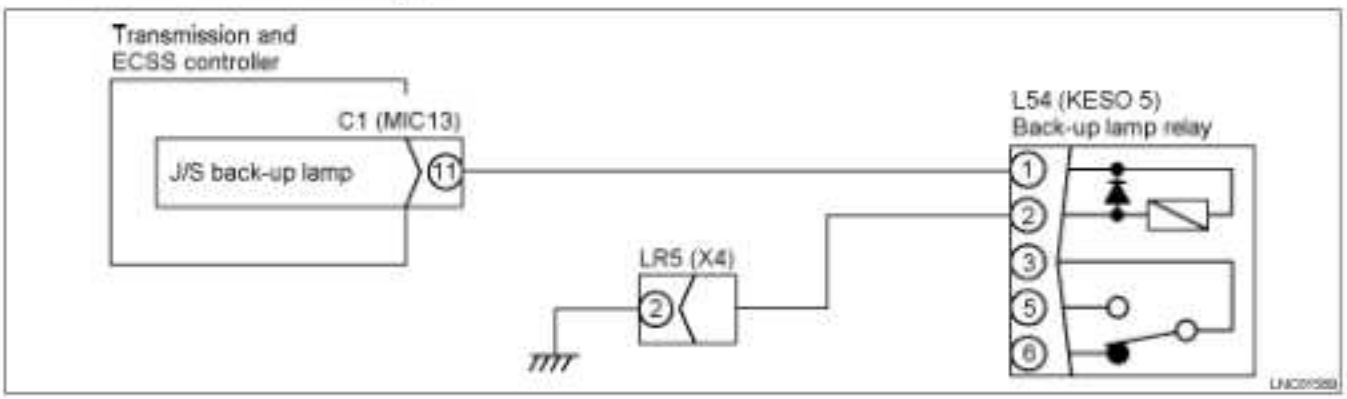
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T-1 FAILURE CODE [10] (SHORT CIRCUIT, DISCONNECTION, SHORT CIRCUIT WITH POWER SOURCE IN BACK-UP LAMP RELAY) IS DISPLAYED

- This troubleshooting is carried out when there is still an abnormality, so when disconnecting the connector and inserting the T-adapter, or when removing the T-adapter and returning the connector to its original position, if the error code is no longer displayed on the monitor display, the problem has been removed.
- Before carrying out troubleshooting, check that all the related connectors are properly inserted.
- Always connect any disconnected connectors before going on to the next step.



T-1 Related electrical circuit diagram



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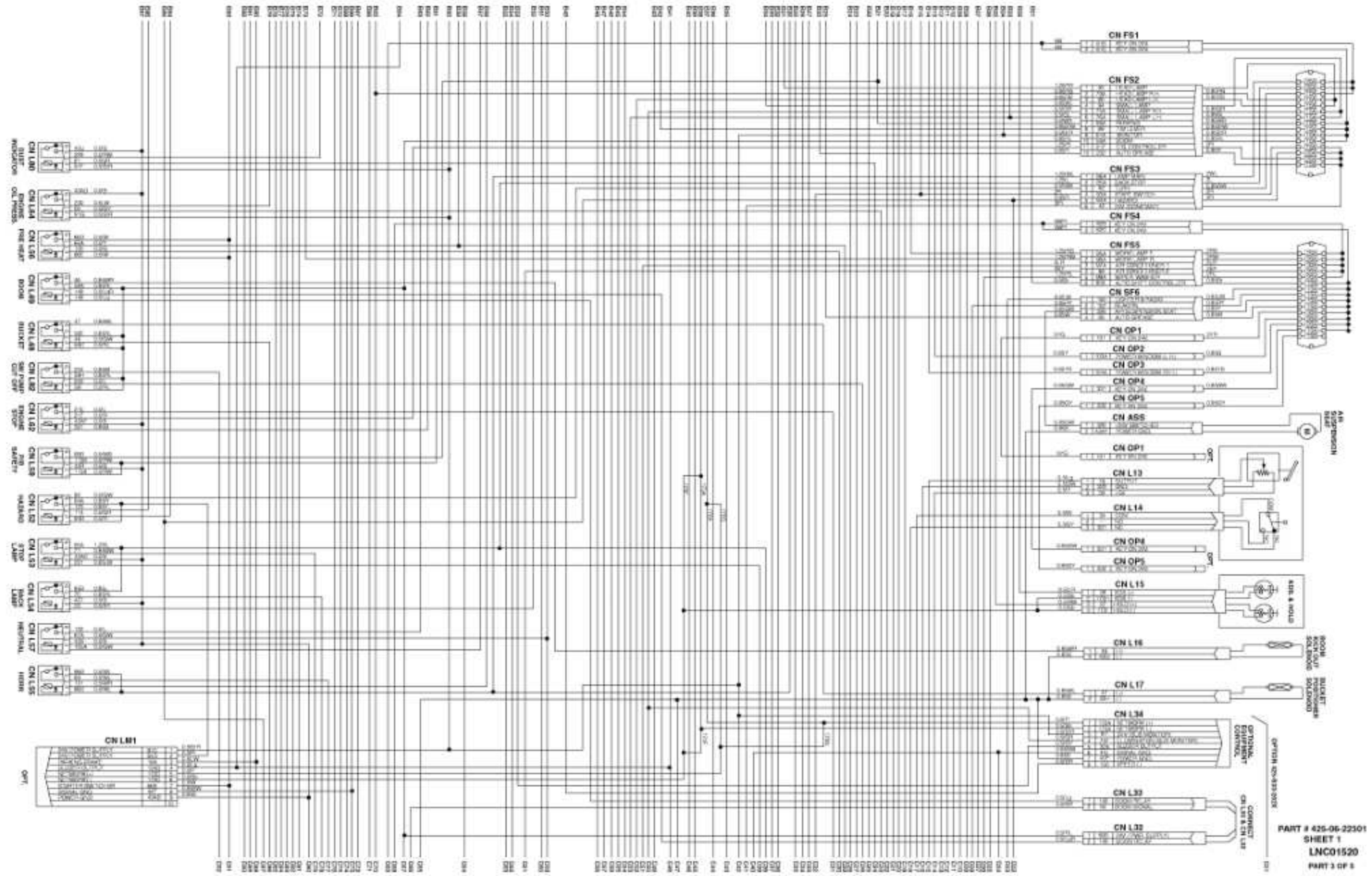
No.	Check item	Criteria					Remedy
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Shaft	Hole			
1	Clearance between pedal mount hole and bracket hole	10 mm (0.394 in)	-0.025 to -0.075 mm (-0.001 to -0.003 in)	+0.1 mm (+0.004 in)	0.175 to 0.025 mm (0.007 to 0.001 in)	0.25 mm (0.010 in)	
2	Clearance between roller and pin	10 mm (0.394 in)	-0.025 to -0.075 mm (-0.001 to -0.003 in)	+0.1 mm (+0.004 in)	0.175 to 0.025 mm (0.007 to 0.001 in)	0.25 mm (0.010 in)	
		Standard size	Tolerance		Repair limit		
3	Outside diameter of roller	30 mm (1.181 in)	-0.5 mm (0.020 in)		29.2 mm (1.150 in)		Replace
		Standard size			Repair limit		
		Free length	Test height	Test load	Free length	Test load	
4	Control spring	34 mm (1.339 in)	21.8 mm (0.858 in)	93.2 N (21 lbf)	33 mm (1.299 in)		
5	Control spring	46.3 mm (1.823 in)	34.3 mm (1.350 in)	459.0 N (103 lbf)	45.3 mm (1.784 in)		
6	Return spring	86.2 mm (3.394 in)	58 mm (2.284 in)	60.8 N (14 lbf)	78 mm (3.071 in)		
7	Spring	17 mm (0.669 in)	15 mm (0.591 in)	69.6 N (16 lbf)	16.2 mm (0.638 in)		
8	Return spring	31.5 mm (1.240 in)	19.5 mm (0.768 in)	16.7 N (3.75 lbf)	28 mm (1.102 in)		

Torque Values

Item	Nm	lbf ft
a	66 ±7	49 ±5
b	152 ±25	112 ±18
c	8 ±2	6 ±1.5

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ELECTRICAL CIRCUIT DIAGRAM (SHEET 1) (PART 3 of 5)



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