KOMATSU®

SHOP MANUAL

FORKLIFT TRUCK

CX50 Series

FOR GENERAL	
FG40Z-10	**M251-133001 and up**
FG35/40/45/50A-10	**M253-133001 and up**
FD40Z-10	**M250-133001 and up**
FD35/40/45/50A-10	**M252-133001 and up**
FD40ZY-10	**M250-133001 and up**
FD35Y/40Y/45Y/50AY-10	**M252-133001 and up**

FOR USA	
FG40ZU-10	**M251-133001 and up**
FG40U/45U/50AU-10	**M253-133001 and up**
FD40ZU-10	**M250-133001 and up**
FD40U/45U/50AU-10	**M252-133001 and up**

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Failure code [[!]: 5 flashings, [N]: OFF, [L]: Flashing] Travel interlock relay output abnormality (1) 18
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	Item			Unit	FG40-10	FG45-10	FG50A-10
Performance	Rated Capacity			kg	4,000	4,500	5,000
	Load center			mm	600	600	600
	Max. lifting height		A	mm	3,000	3,000	3,000
	Std. Free Lift		B	mm	160	145	145
	Fork lifting speed (loaded)			mm/s	510	440	440
	Max. travel speed (unloaded)	1st (Forward)		km/h	19.0	16.5	15.5
		2nd (Forward)		km/h	–	24.0	24.5
	Gradeability (loaded) (Max.)			%	25	26	25
Dimensions and Weight	Overall length		C	mm	4,220	4,270	4,405
	Overall width		D	mm	1,450	1,450	1,450
	Overall height	Mast	E	mm	2,105	2,205	2,205
		Overhead guard	F	mm	2,250	2,250	2,250
	Fork length x width x thickness J x K x L			mm	1,070 x 150 x 55	1,070 x 150 x 55	1,220 x 150 x 55
	Fork opening width (Min./Max.)		G	mm	300/1,190	300/1,190	300/1,270
	Unladen mass			kg	6,215	6,800	7,240
Engine	Type			–	EBT-TB45-1A	EBT-TB45-1A	EBT-TB45-1A
					EBT-TB45-2A (*1)	EBT-TB45-2A (*1)	EBT-TB45-2A (*1)
					EBT-TB45-3A (*2)	EBT-TB45-3A (*2)	EBT-TB45-3A (*2)
	Total piston displacement			cc	4,478	4,478	4,478
	Rated output			kW{PS}/rpm	62.5{85}/2,400	62.5{85}/2,400	62.5{85}/2,400
Tyres	Front			–	300-15-18PR ( )	300-15-18PR ( )	300-15-18PR ( )
	Rear			–	7.00-12-12PR ( )	7.00-12-12PR ( )	7.00-12-14PR ( )

*1. Gasoline/LPG (dual fuel) engine
*2. LPG specification engine

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Failure code [LED: 1 flashing] Initialization is not completed

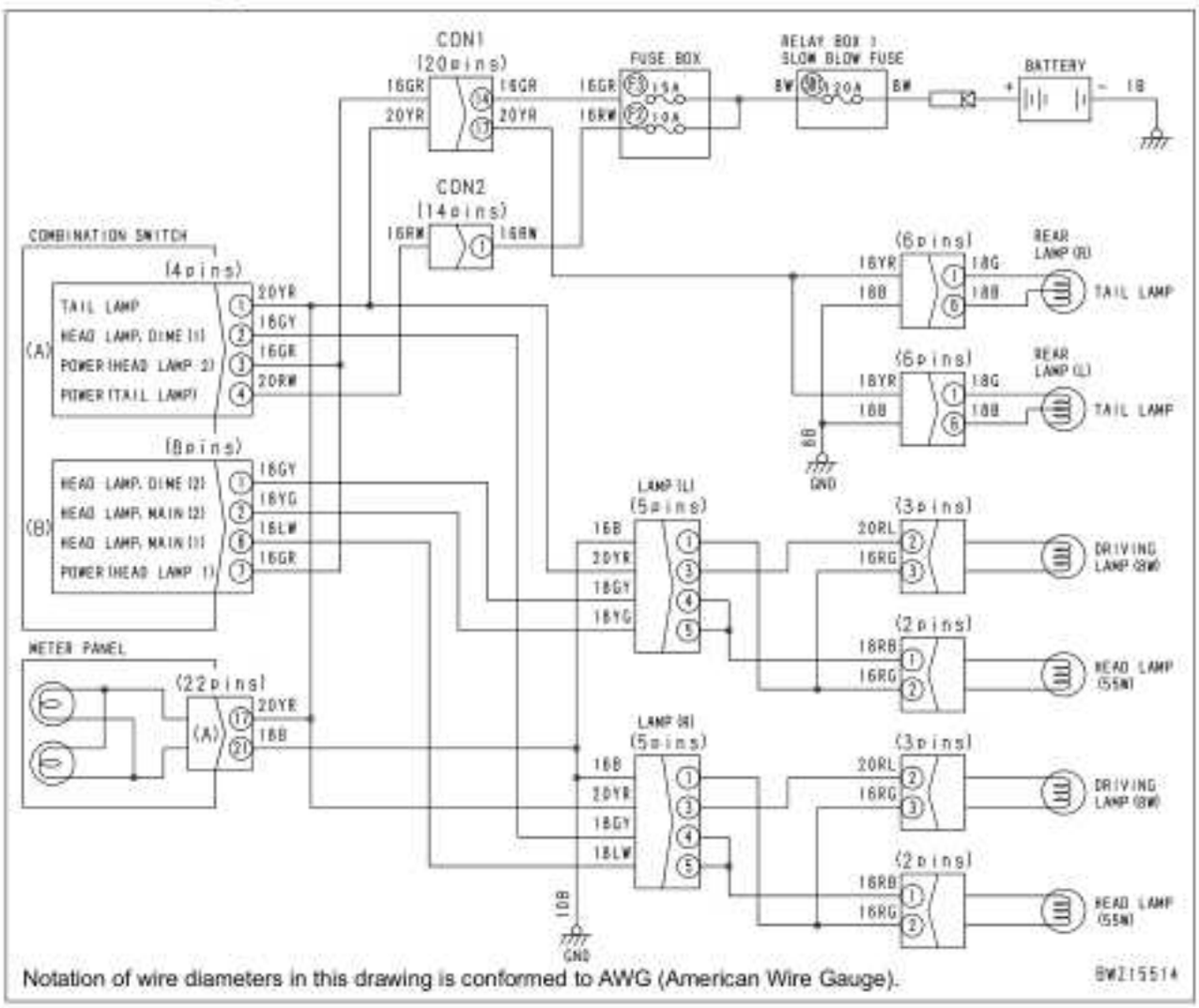
Failure code		Trouble	Initialization is not completed. (EPACS controller system)
LED: 1 flashing			
Contents of trouble	• Initialization is not completed (If completed afterward, it has no trouble).		
Action of controller	• Flashes LED 1 time as alarm (Repeats flashing until cause of trouble is removed).		
Problem that appears on lift truck	• Steering wheel knob deviation is not corrected normally.		
Related information	• If initialization plug is connected, initialization is not performed.		

	Cause		Standard value in normal condition/Remarks on troubleshooting
Possible causes and standard value in normal state	1	Initialization is not completed.	Referring to Testing and adjusting, "Initialization of orbit roll", perform initialization.
	2	Defective EPACS controller (Internal defect)	If above causes are not the cause for the trouble, EPACS controller may be defective. (Since trouble is in system, troubleshooting cannot be performed.)

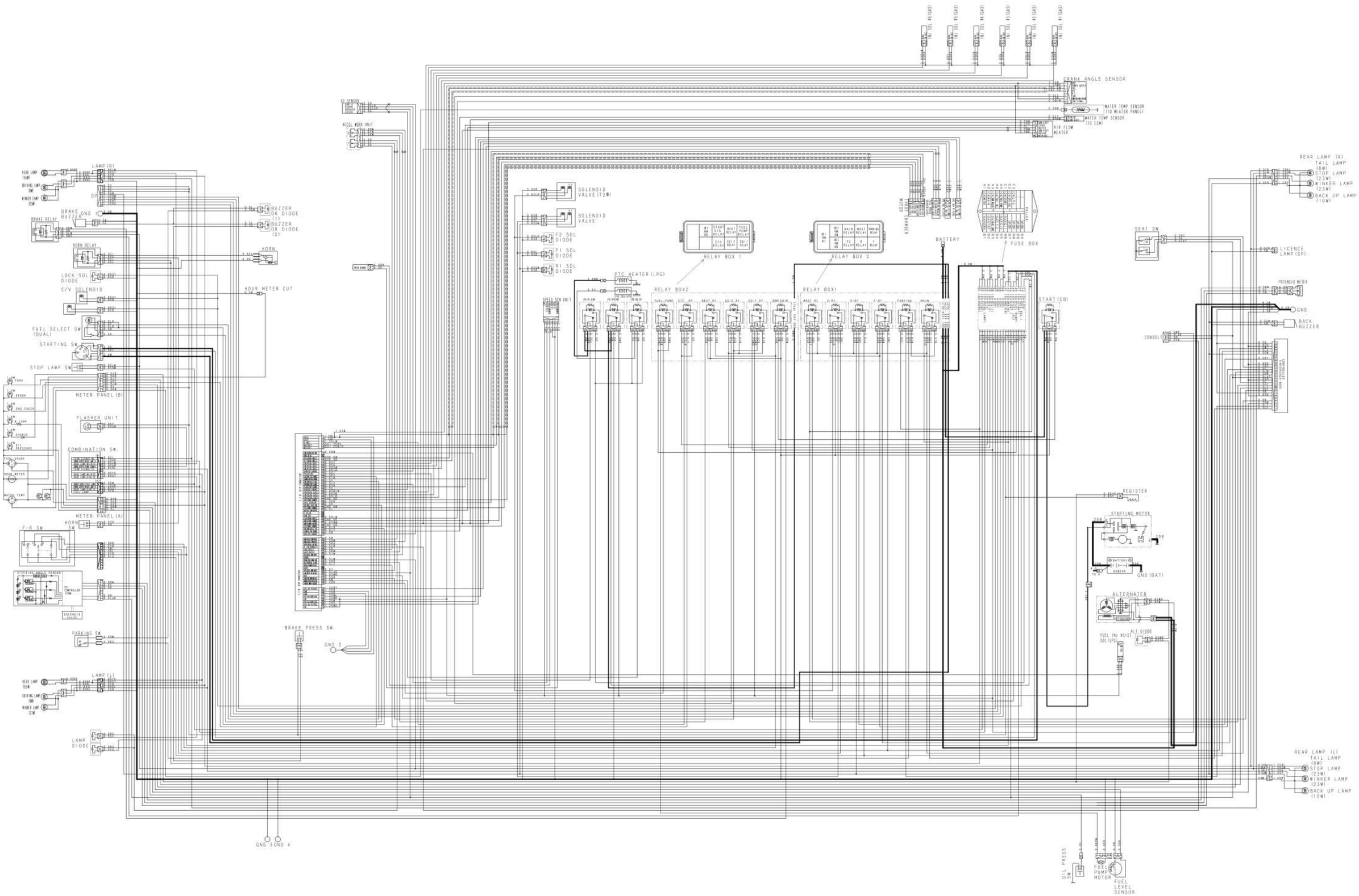
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	Cause		Standard value in normal condition/Remarks on troubleshooting		
Possible causes and standard value in normal state	6	Hot short in wiring harness (Contact with 12 V circuit)	★ When switch is turned OFF, if right headlamp does not go off, perform following troubleshooting. ★ Prepare with starting switch OFF, then turn starting switch to ON position and perform troubleshooting.		
			Between COMBINATION SWITCH (A) (2) – LAMP (R) (4) wiring harness and ground	Voltage	Max. 1 V
			Between COMBINATION SWITCH (B) (6) – LAMP (R) (5) wiring harness and ground	Voltage	Max. 1 V
			★ When switch is turned OFF, if clearance lamp and tail lamp do not go off, perform following troubleshooting. ★ Prepare with starting switch OFF, then turn starting switch to ON position and perform troubleshooting.		
			COMBINATION SWITCH (A) (1) – LAMP (R) (3), LAMP (L) (3), REAR LAMP (R) (1), REAR LAMP (L) (1), LICENSE LAMP (1) wiring harness and ground	Voltage	Max. 1 V

Related circuit diagram



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