

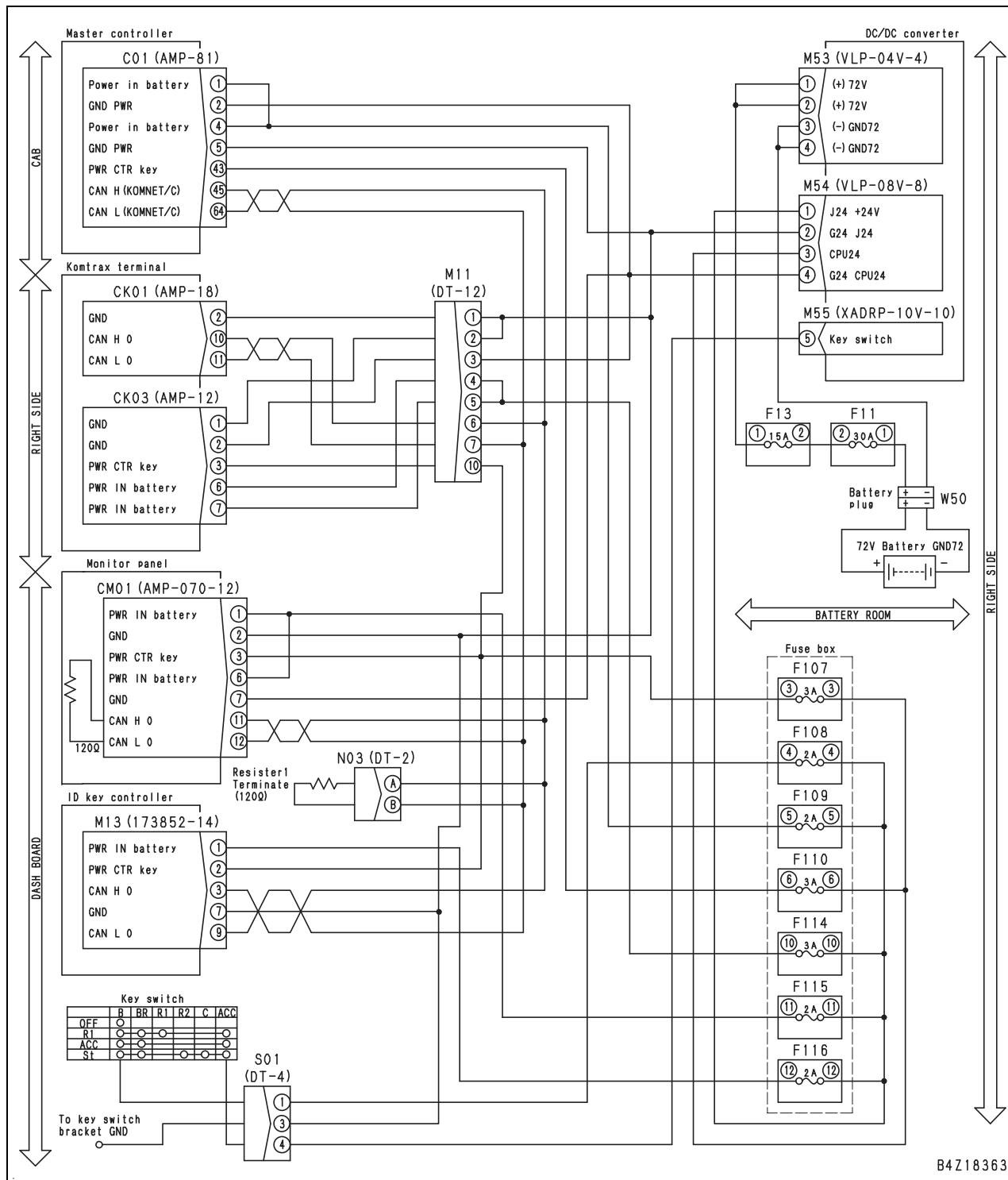
Failure code [DBNRKR] ABNL) CAN COMM. (M/C)

Action level	Failure code	Failure	CAN Discon (Master Controller) (monitor panel system)
L03	DBNRKR		
Detail of failure	Monitor panel cannot receive the communication from master controller for 3 seconds continuously.		
Action of controller	- Notification only [Resetting condition] - Automatic resetting with normal communication.		
Problem on lift truck	- Master controller cannot inform the failure. - Value is not displayed with monitoring function. - If master controller is not started, lift truck cannot travel, work equipment and PS (power steering) cannot be operated.		
Related information	- When failure codes [D8AQKR], [D8AQK4], and [F7FQKR] are also displayed, ID key controller or KOMTRAX terminal may be defective (if ID key controller or KOMTRAX terminal is equipped). - Start of CAN communication is recognized by each controller and monitor panel by means of CPU24 signal which is output by DC/DC converter when ACC signal of starting switch is received. - Each controller and monitor panel receive the current even if the starting switch is turned to OFF position. - Since signal of active CAN communication line is pulse voltage, it cannot be measured by using multimeter. - The 120 Ω of terminating register of CAN communication line is in N03 and in monitor panel. - Method of reproducing failure code: Turn the starting switch to ON position. - Since T-adaptor for master controller connector is "socket-type box", operating voltage cannot be measured at master controller connector.		

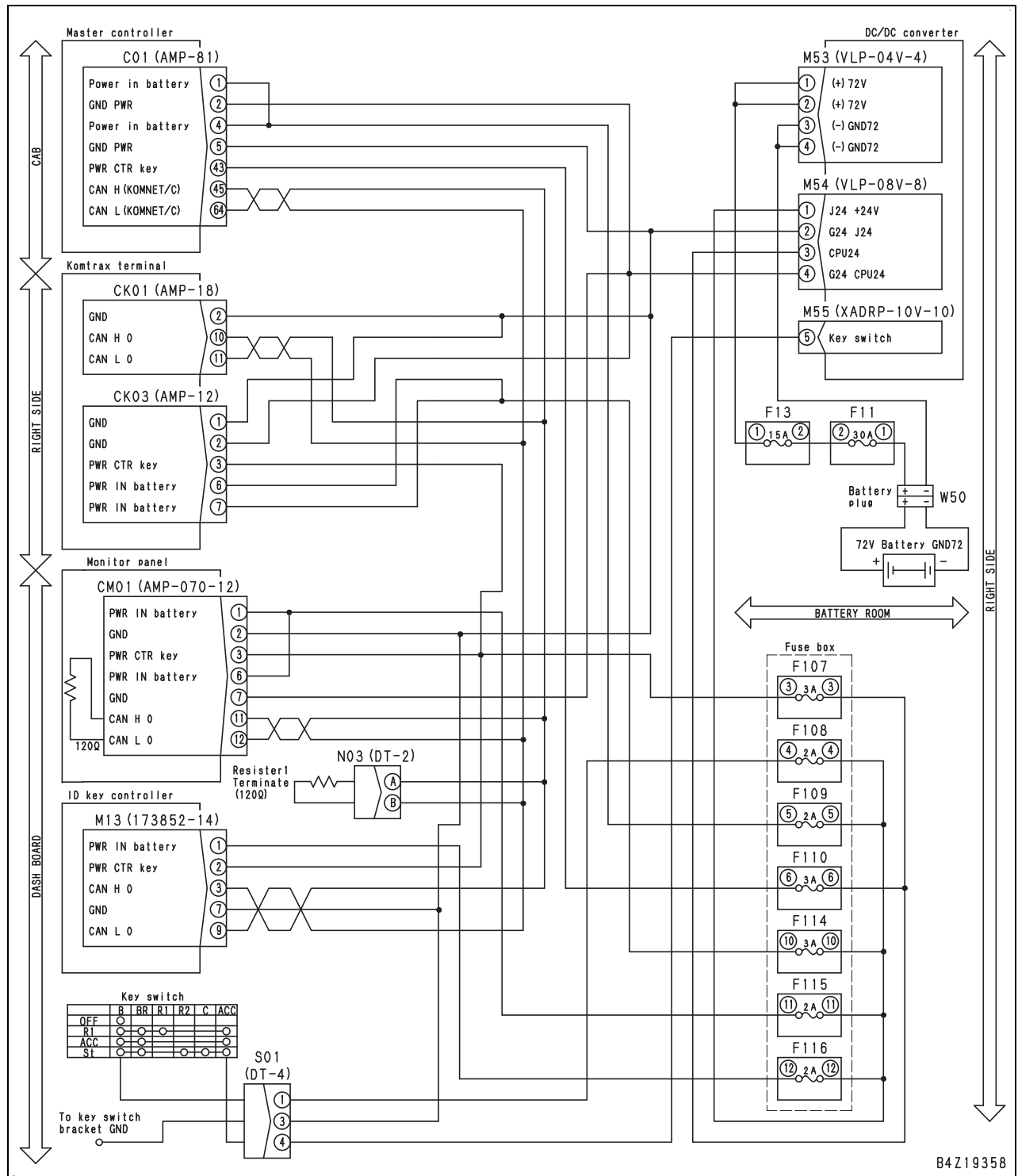
No.	Cause	Procedure, measuring location, criteria and remarks		
1	Defective fuses F109 and F110 in fuse box	- Turn the starting switch to OFF position. - Check that system operating lamp is turned OFF, and then disconnect battery plug. - Remove fuses F109 and F110. ★ If fuse is blown out, the wiring harness may be grounded.		
		Resistance	Between both terminals of F109	Max. 1 Ω
			Between both terminals of F110	Max. 1 Ω
2	Defective power supply system for master controller	- Turn the starting switch to OFF position. - Check that system operating lamp is turned OFF, and then disconnect battery plug. - Disconnect connector C01, and connect T-adaptor to female side. - Connect battery plug. - Turn the starting switch to ON position. ★ If any trouble is found, perform troubleshooting for failure code [DBN3KK].		
		Voltage	Between C01 (female) (1) and (2)	Approx. 24 V
			Between C01 (female) (4) and (5)	Approx. 24 V
			Between C01 (female) (43) and (5)	Approx. 24 V
3	Defective CAN terminating resistor	- Turn the starting switch to OFF position. - Check that system operating lamp is turned OFF, and then disconnect battery plug. - Disconnect connectors N03 and CM01, and connect T-adaptor to male side.		
		Resistance	Between N03 (male) (A) and (B)	Approx. 120 Ω
			Between CM01 (male) (11) and (12)	Approx. 120 Ω

No.	Cause	Procedure, measuring location, criteria and remarks		
4	Open circuit in wiring harness (wire breakage or defective contact of connector)	1. Turn the starting switch to OFF position. 2. Check that system operating lamp is turned OFF, and then disconnect battery plug. 3. Disconnect connectors CM01 and C01, and connect T-adapters to each female side.		
		Resistance	Between CM01 (female) (11) and C01 (female) (45)	Max. 1 Ω
			Between CM01 (female) (12) and C01 (female) (64)	Max. 1 Ω
			Between CM01 (female) (11) and N03 (female) (A)	Max. 1 Ω
			Between CM01 (female) (12) and N03 (female) (B)	Max. 1 Ω
5	Short circuit in wiring harness	1. Turn the starting switch to OFF position. 2. Check that system operating lamp is turned OFF, and then disconnect battery plug. 3. Disconnect connectors CM01, C01, CK01, M13, N03, and N06, and connect T-adapter to female side of CM01.		
		Resistance	Between CM01 (female) (11) and (female) (12)	Min. 1 M Ω
			Between CM01 (female) (6) and (female) (11)	Min. 1 M Ω
			Between CM01 (female) (6) and (female) (12)	Min. 1 M Ω
			Between CM01 (female) (7) and (female) (11)	Min. 1 M Ω
			Between CM01 (female) (7) and (female) (12)	Min. 1 M Ω
6	Defective ID key controller or KOMTRAX terminal (if equipped) (defective CAN communication line)	- When ID key controller or KOMTRAX terminal is installed, and any one of failure codes [D8AQKR], [D8AQK4], and [F7FQKR] is also displayed ★ Identify which controller is defective by disconnecting them one by one from CAN communication line by repeating the following steps 1 to 5. ★ Record all the displayed failure codes on a paper in advance. 1. Turn the starting switch to OFF position. 2. Check that system operating lamp is turned OFF, and then disconnect battery plug. 3. Disconnect ID key controller (connector M13) and KOMTRAX terminal (connector CK01) one by one from CAN communication line. 4. Connect battery plug. 5. Turn the starting switch to ON position and perform troubleshooting. 6. Return to step 1 to check next controller.		
		Has the number of displayed failure codes decreased ? (Has this failure code disappeared)		If YES, disconnected controller is defective.
7	Defective master controller	If no failure is found by above checks, monitor controller is defective. (Since this is an internal defect, troubleshooting cannot be performed.)		

Circuit diagram related to CAN 0 communication line [FE25-1], [FE25H-1]



[FE30-1]



B4Z19358