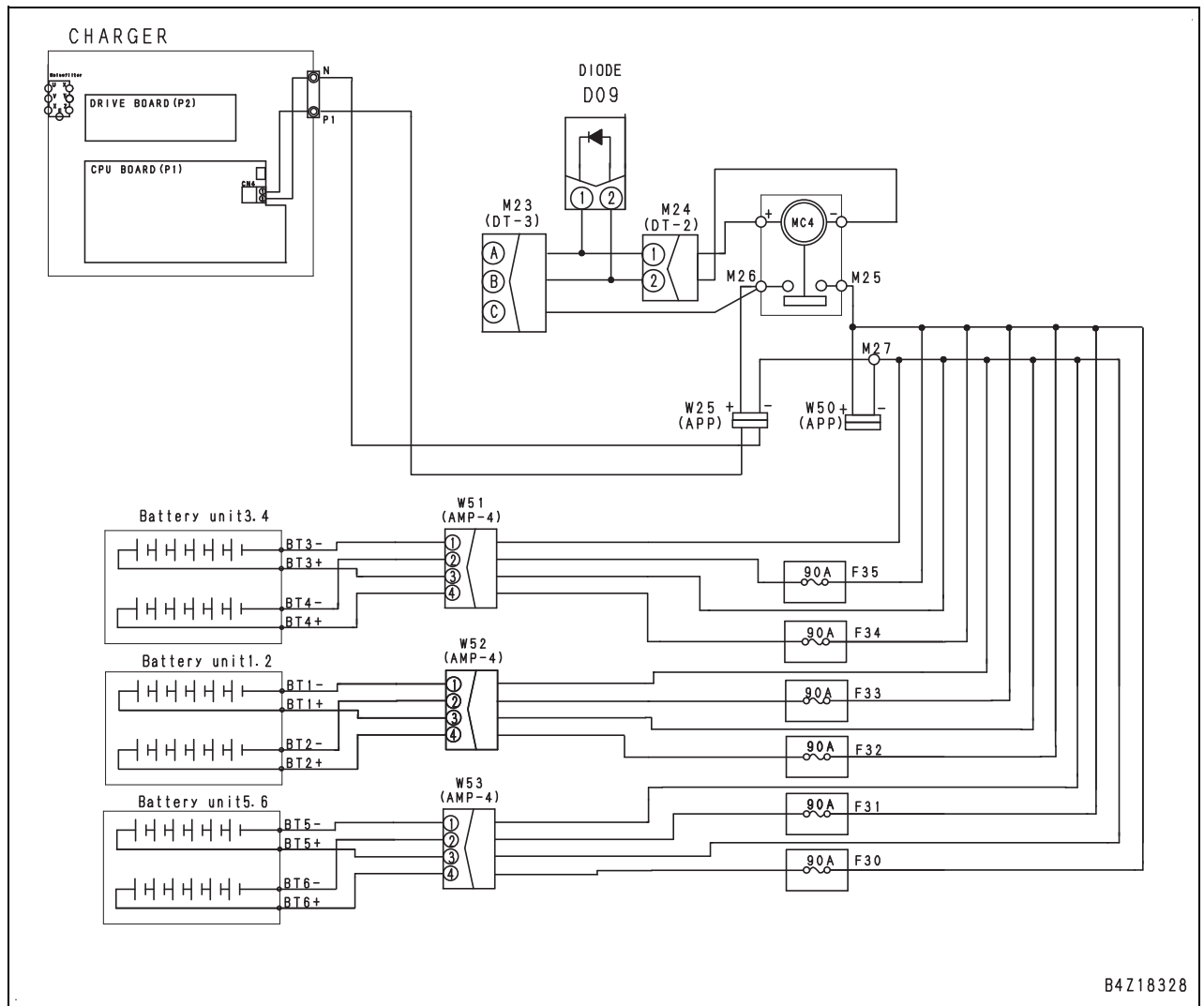


Failure code [GFA0NA] ABNL) CHARGER SYSTEM (Serial number: 300001 to 304911)

Action level	Failure code	Failure	Charger enable time-over (Master controller system)
L03	GFA0NA		
Detail of failure	- The master controller sends the "Charger READY command=ON" when charging starts, but the controller cannot receive the "Charger enable=ON" command. - The master controller sends the "Charger READY command=OFF" when charging ends or stopped, but the controller cannot receive the "Charger enable=OFF" command.		
Action of controller	- The master controller waits with the charge current command=0 until it receives "Charger enable=ON" at the start of charging. - If "Charger enable=ON" is not received for 10 seconds, the controller stops charging.		
Problem on lift truck	Battery cannot be charged.		
Related information	The "Stationary charger enable" communication is sent from the charger to the master controller via the charging controller.		

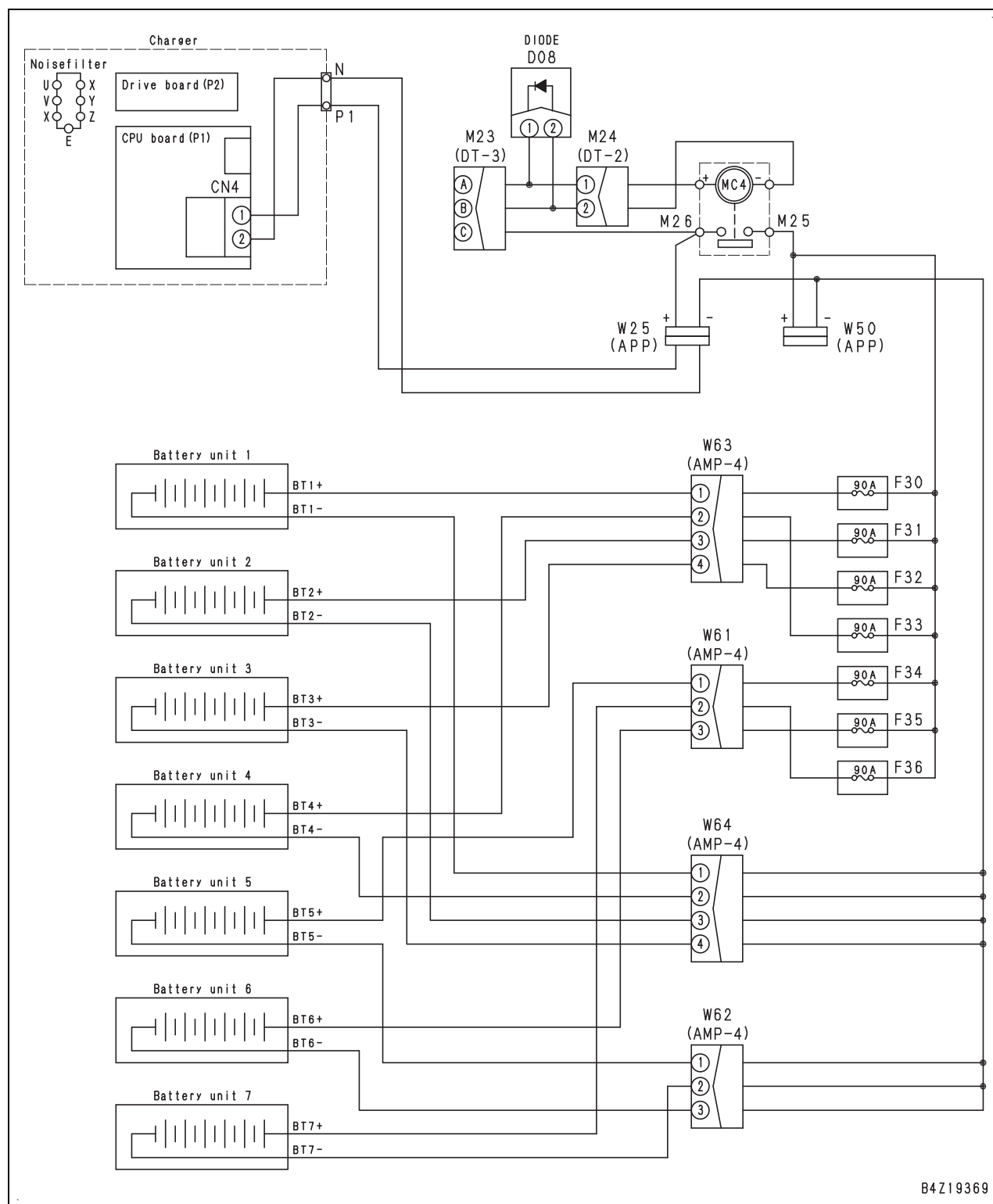
No.	Cause	Procedure, measuring location, criteria and remarks	
1	Defective CAN communication	If failure code [GFBKRK] or [GFBKRK] is generated simultaneously, execute this failure diagnosis first.	
2	Wire harness disconnection (chassis) (Wire breakage or defective contact of connector)	- Turn the starting switch to OFF position. - Check that the system operating lamp is turned off, then disconnect the battery plug. - Disconnect connectors M26 and M27, and measure the resistance.	
		Resistance	Between M26 and charging plug W25 (+) Max. 1 Ω
			Between M27 and charging plug W25 (-) Max. 1 Ω
3	Wire harness disconnection (charger) (Wire breakage or defective contact of connector)	- Unplug the charger plug, and turn OFF the breaker of AC power breaker. When 10 minutes or more have passed, open the charger cover.) - Disconnect P1-CN4, and measure the resistance.	
		Resistance	Between P1-CN4(1) and charging plug W25 (+) Max. 1 Ω
			Between P1-CN4(21) and charging plug W25 (-) Max. 1 Ω
4	Defective CPU board (P1)	If no failure is found by the preceding checks, the CPU board (P1) of the charger is defective.	
5	Defective charger	If no failure is found by the above checks, the charger is defective. (Since this is an internal defect, troubleshooting cannot be performed.)	

Circuit diagram related to charger enable time
[FE25-1, FE25H-1]



B4Z18328

[FE30-1]

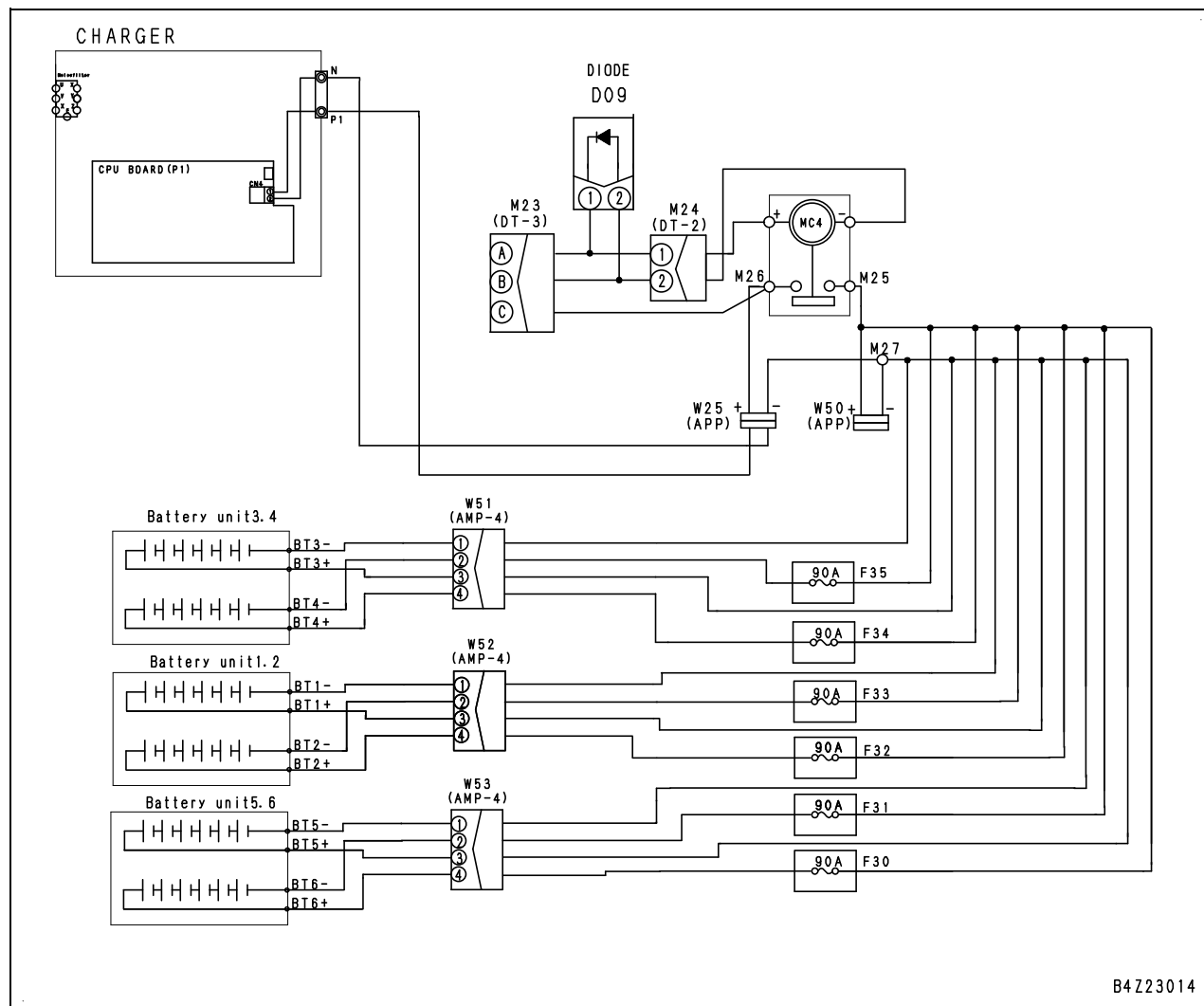


Failure code [GFA0NA] ABNL) CHARGER SYSTEM (Serial number: 304912 and up)

Action level	Failure code	Failure	Charger enable time-over (Master controller system)
L03	GFA0NA		
Detail of failure	- The master controller sends the "Charger READY command=ON" when charging starts, but the controller cannot receive the "Charger enable=ON" command. - The master controller sends the "Charger READY command=OFF" when charging ends or stopped, but the controller cannot receive the "Charger enable=OFF" command.		
Action of controller	- The master controller waits with the charge current command=0 until it receives "Charger enable=ON" at the start of charging. - If "Charger enable=ON" is not received for 10 seconds, the controller stops charging.		
Problem on lift truck	Battery cannot be charged.		
Related information	The "Stationary charger enable" communication is sent from the charger to the master controller via the charging controller.		

No.	Cause	Procedure, measuring location, criteria and remarks		
1	Defective CAN communication	If failure code [GFBRKR] or [GFBRKR] is generated simultaneously, execute this failure diagnosis first.		
2	Wire harness disconnection (chassis) (Wire breakage or defective contact of connector)	- Turn the starting switch to OFF position. - Check that the system operating lamp is turned off, then disconnect the battery plug. - Disconnect connectors M26 and M27, and measure the resistance.		
		Resistance	Between M26 and charging plug W25 (+)	Max. 1Ω
			Between M27 and charging plug W25 (-)	Max. 1Ω
3	Wire harness disconnection (charger) (Wire breakage or defective contact of connector)	- Unplug the charger plug, and turn OFF the breaker of AC power breaker. When 10 minutes or more have passed, open the charger cover.) - Disconnect P1-CN4, and measure the resistance.		
		Resistance	Between P1-CN4(1) and charging plug W25 (+)	Max. 1Ω
			Between P1-CN4(21) and charging plug W25 (-)	Max. 1Ω
4	Defective CPU board (P1)	If no failure is found by the preceding checks, the CPU board (P1) of the charger is defective.		
5	Defective charger	If no failure is found by the above checks, the charger is defective. (Since this is an internal defect, troubleshooting cannot be performed.)		

Circuit diagram related to charger enable time
[FE25-1, FE25H-1]



B4Z23014

[FE30-1]

