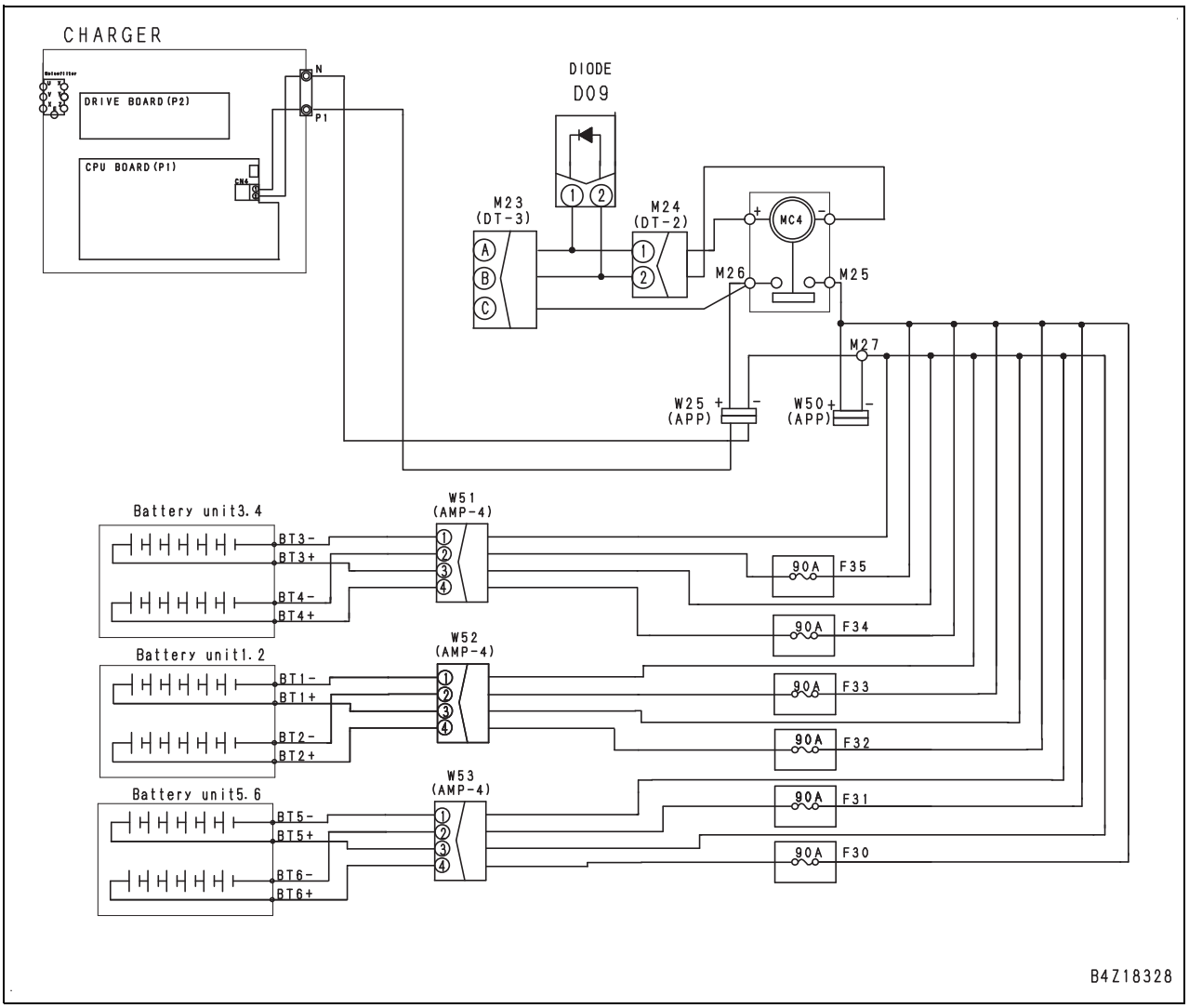
Failure code [GFA1KG] HIGH) POWER SOURCE (CHGR) (Serial number: 300001 to 304911)

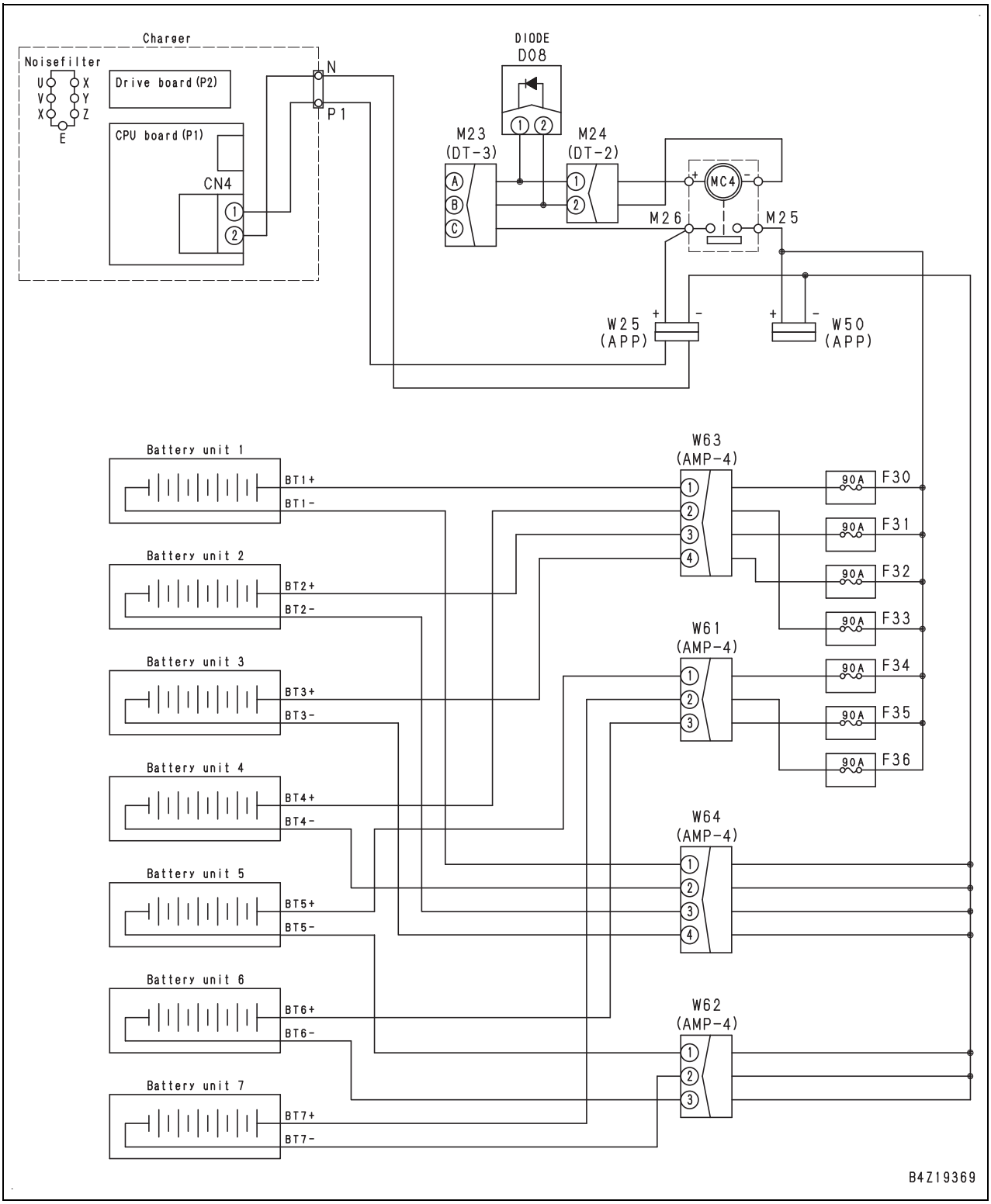
Action level	Failure code	Failure	Abnormal charger output voltage (Charger system)
L03	GFA1KG		
Detail of failure	• The charger output voltage is high.		
Action of controller	• Stops charging. • The caution symbol is displayed on the monitor panel, and an alarm buzzer is activated.		
Problem on lift truck	• Battery cannot be charged.		
Related information			

No.	Cause	Procedure, measuring location, criteria and remarks		
1	Defective fuse	1. Turn the starting switch to OFF position. 2. Check that the system operating lamp is turned off, then disconnect the battery plug. 3. Remove the following fuses, and measure the resistance.		
		Resistance	Fuse F30 to 35 (FE25-1, FE25H-1)	Max. 1Ω
			Fuse F30 to 36 (FE30-1)	Max. 1Ω
2	Wire harness disconnection (Wire breakage or defective contact of connector)	1. Unplug the charger plug, and turn OFF the breaker of AC power breaker. When 10 minutes or more have passed, open the charger cover.) 2) Measure the resistance of wire harness.		
		Resistance	Between charger P1 terminal and W25 (charger side) [+] terminal	Max. 1Ω
			Between charger N terminal and W25 (charger side) [-] terminal	Max. 1Ω
			Between M26 terminal W25 (chassis side) [+] terminal	Max. 1Ω
			Between M27 terminal and W25 (chassis side) [-] terminal	Max. 1Ω
3	Defective CPU board (P1)	If no failure is found by the preceding checks, the CPU board (P1) of the charger is defective.		
4	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 overvoltage
[FE25-1, FE25H-1]



[FE30-1]

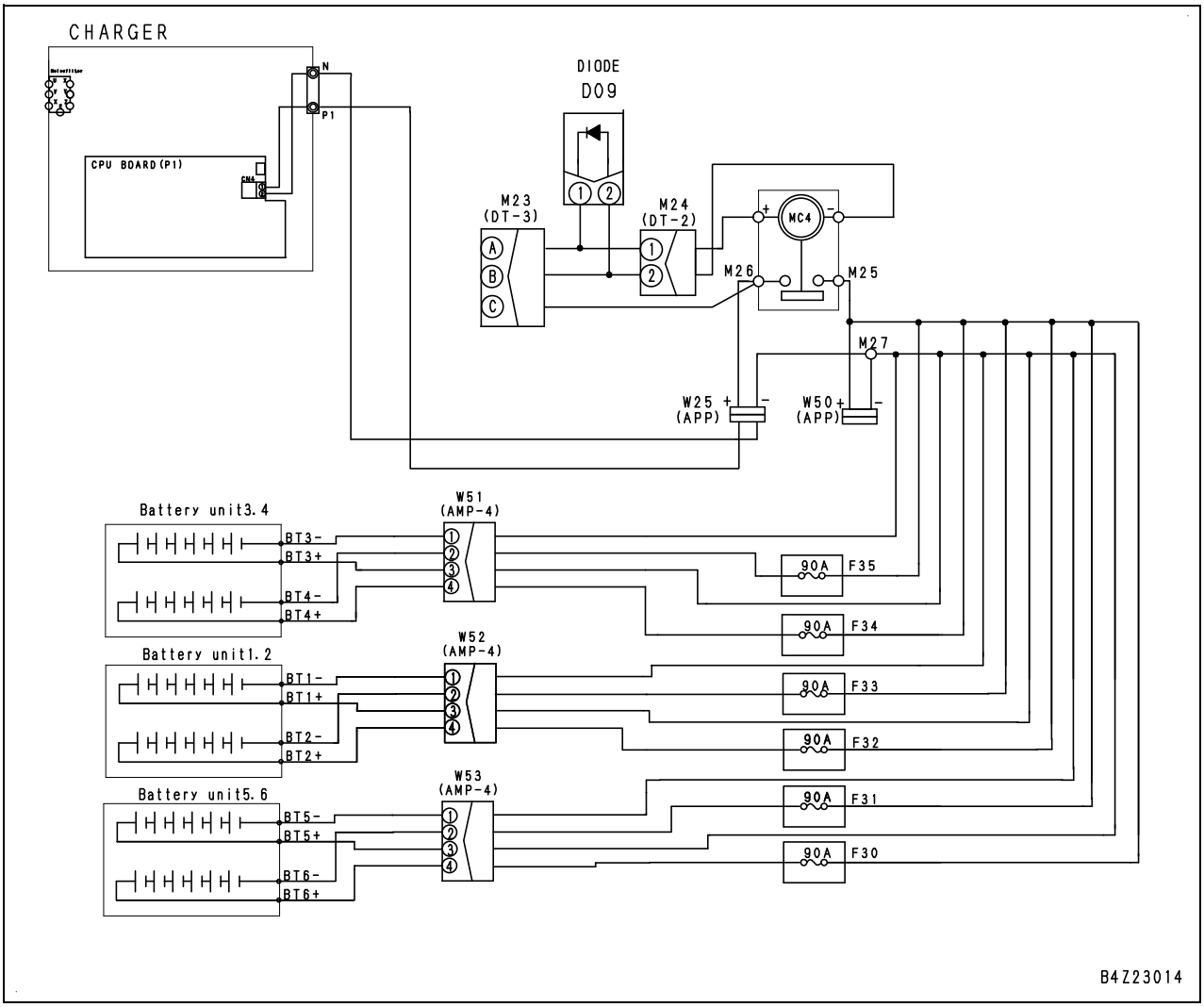

Charger
Noisefilter
U
V
X
E
X
Y
Z
Drive board (P2)
CPU board (P1)
CN4
N
P1
DIODE
D08
M23
(DT-3)
A
B
C
M24
(DT-2)
MC4
M26
M25
W25
(APP)
W50
(APP)
Battery unit 1
BT1+
BT1-
Battery unit 2
BT2+
BT2-
Battery unit 3
BT3+
BT3-
Battery unit 4
BT4+
BT4-
Battery unit 5
BT5+
BT5-
Battery unit 6
BT6+
BT6-
Battery unit 7
BT7+
BT7-
W63
(AMP-4)
W61
(AMP-4)
W64
(AMP-4)
W62
(AMP-4)
90A
F30
F31
F32
F33
F34
F35
F36
B4Z19369

Failure code [GFA1KG] HIGH) POWER SOURCE (CHGR) (Serial number: 304912 and up)

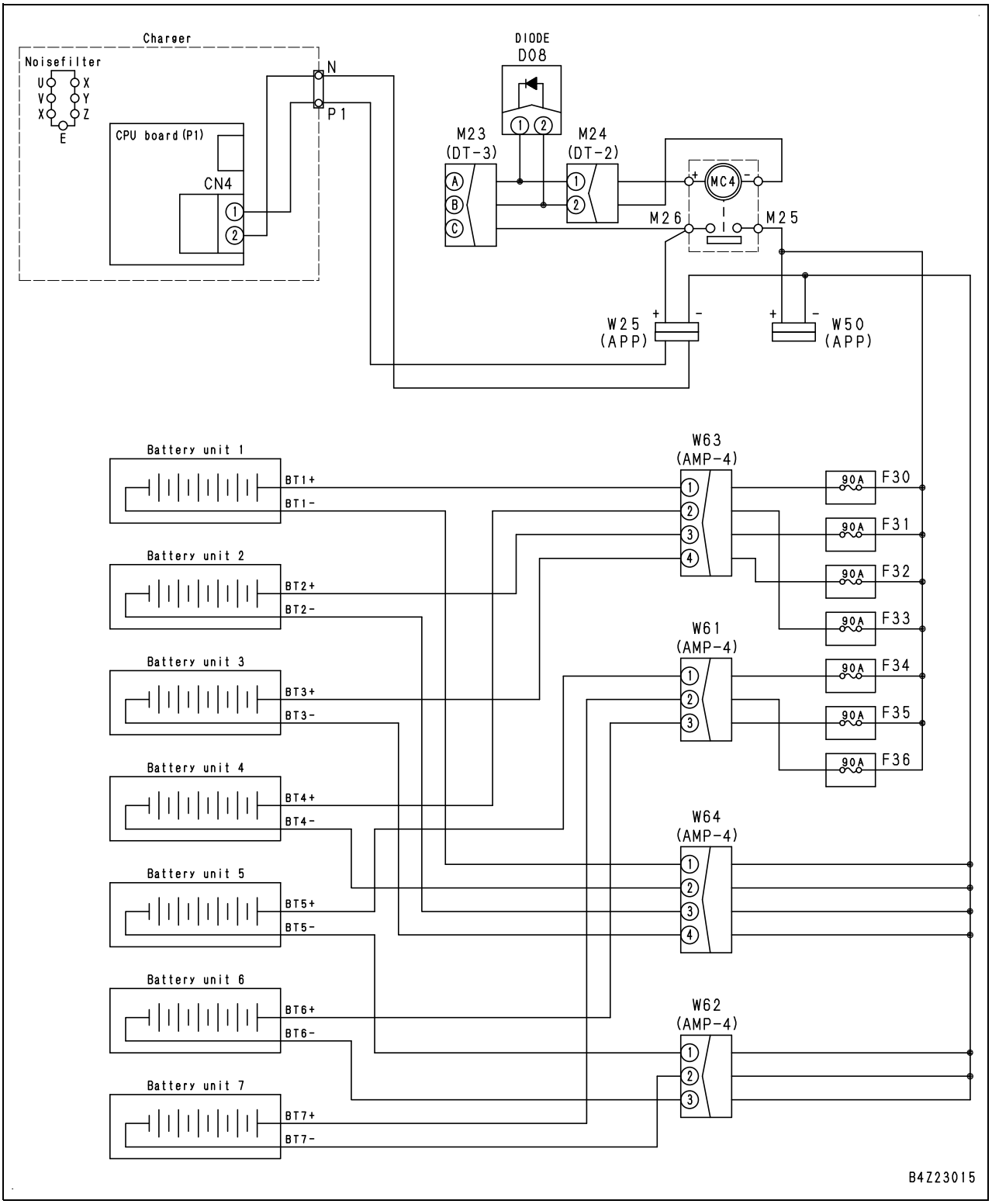
Action level	Failure code	Failure	Abnormal charger output voltage (Charger system)
L03	GFA1KG		
Detail of failure	• The charger output voltage is high.		
Action of controller	• Stops charging. • The caution symbol is displayed on the monitor panel, and an alarm buzzer is activated.		
Problem on lift truck	• Battery cannot be charged.		
Related information			

No.	Cause	Procedure, measuring location, criteria and remarks		
1	Defective fuse	1. Turn the starting switch to OFF position. 2. Check that the system operating lamp is turned off, then disconnect the battery plug. 3. Remove the following fuses, and measure the resistance.		
		Resistance	Fuse F30 to 35 (FE25-1, FE25H-1)	Max. 1Ω
			Fuse F30 to 36 (FE30-1)	Max. 1Ω
2	Wire harness disconnection (Wire breakage or defective contact of connector)	1. Unplug the charger plug, and turn OFF the breaker of AC power breaker. When 10 minutes or more have passed, open the charger cover.) 2) Measure the resistance of wire harness.		
		Resistance	Between charger P1 terminal and W25 (charger side) [+] terminal	Max. 1Ω
			Between charger N terminal and W25 (charger side) [-] terminal	Max. 1Ω
			Between M26 terminal W25 (chassis side) [+] terminal	Max. 1Ω
			Between M27 terminal and W25 (chassis side) [-] terminal	Max. 1Ω
3	Defective CPU board (P1)	If no failure is found by the preceding checks, the CPU board (P1) of the charger is defective.		
4	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 overvoltage
[FE25-1, FE25H-1]



[FE30-1]


Charger
Noisefilter
U
V
X
X
Y
Z
E
N
P1
CPU board (P1)
CN4
DIODE
D08
M23
(DT-3)
M24
(DT-2)
MC4
M26
M25
W25
(APP)
W50
(APP)
Battery unit 1
BT1+
BT1-
Battery unit 2
BT2+
BT2-
Battery unit 3
BT3+
BT3-
Battery unit 4
BT4+
BT4-
Battery unit 5
BT5+
BT5-
Battery unit 6
BT6+
BT6-
Battery unit 7
BT7+
BT7-
W63
(AMP-4)
W61
(AMP-4)
W64
(AMP-4)
W62
(AMP-4)
90A
F30
F31
F32
F33
F34
F35
F36
B4Z23015