

<b>Error message</b>	<b>Flash code</b>	<b>Description</b>	<b>Remarks</b>
A1	1x flash	Error current	Current > 30A
A2	2x flash	not existing	/
A4	4x flash	Error rotational speed in neutral	Voltage at encoder highside or lowside in neutral
A5	5x flash	Overtemperature	Controller temperature >90°C
A6	6x flash	Error powerstage	Internal controller error
A7	7x flash	Overcurrent	Short cut at wiring to, or in motor
A8	8x flash	Error power supply	no voltage at controller
A9	9x flash	not existing	/
A10	10x flash	Overvoltage	Battery voltage > 45V
A11	11x flash	Motor overload	Motor torque > allowed
A12	12x flash	Motor overtemperature	Temperature switch motor activ
A13	13x flash	Key switch OFF	Input, key switch is open
A14	14x flash	Error EEPROM	EEPROM defect
A15			
A16			
A3A	3x flash	Error torque	Voltage at encoder highside out of range <1,5V or > 3,0V
A3B	3x flash	Error torque	Voltage at encoder lowside out of range > 3,0V or <1,5V
A3C	3x flash	Error torque	Voltage deviation between encoder highside and lowside > 0,5V
A3D	3x flash	Error torque	Short cut between encoder highside and lowside

<b>add. Info</b>	<b>Circuit board + Plug + PIN</b>	<b>Concerned part(s)</b>
	A9/B(+)	A9
	/	/
higher or lower 2,2V (12Nm)	A9.J1/2 or A9.J1/4	M26
	/	A9
	/	A9
	A9/M1 or A9/M2	M26
	A9/B(+) or A9/B(-)	A9
	/	/
	A9/B(+) or A9/B(-)	A9
20A longer than 10s	A9/M1 or A9/M2	M26
not connected	/	/
	A9.J1/15	S1or A9
	/	A9
torque > 28Nm	A9.J1/1 and A9.J1/2	M26
torque > 28Nm	A9.J1/3 and A9.J1/4	M26
	A9.J1/2 and A9.J1/4	M26
	A9.J1/2 and A9.J1/4	M26

## Trouble shooting

Check wiring and pins

/

Check steering geometry,  
steering encoder and  
wiring

Eliminate reason for  
overheating

Change controller

Check motor or wiring

Check wiring

/

Check wiring

Check steering geometry,  
motor and wiring

/

Check wiring

Change controller

unknown

unknown

Check steering geometry,  
steering encoder and  
wiring

Check steering geometry,  
steering encoder and  
wiring

Check steering geometry,  
steering encoder and  
wiring

Check wiring