

ELECTRICAL

DIAGNOSTIC CODES (under seat)

The CRE-2110 includes a visual diagnostic display to aid troubleshooting. The table below shows the code displayed and a description of the code indication.

Readout/Diagnostic Group (Group Indicator)	S - Solid = 'Normal' Condition CF - Continuous Flash = Diagnostic Fault	Segment 1	Segment 2	Audible Mode 1 S1-Off S2-Off	Audible Mode 2 S1-Off S2-On	Audible Mode 3 S1-On S2-Off	Audible Mode 4 S1-On S2-On
Charge/Battery Condition Group (C)							
Charging (Charger detected)	S	C	1	None	None	None	None
Off-Charge (running w/rocker or remote)	S	C	2	None	None	None	None
Off-Charge and Not-Parked (fault condition)	CF	C	3	BBBBL	BBBBL	None	BBBBL
Parked and Charger Not Detected	CF	C	4	BBLL	BBLL	None	BBLL
Battery Voltage Critical (~16V)	CF	C	5	BBLLL	BBLLL	None	BBLLL
Battery Voltage Low (<18V)	CF	C	6	None	None	None	None
Motorized Swivel Moving (Prior to SW Rev. 2.7 only-see A6)	S	C	7	None	None	None	None
Motorized Footrest Moving (Prior to SW Rev. 2.7 only-see A7)	S	C	8	None	None	None	None
Limit/Switch Input Group (L)							
SSS open	S	L	1	S,M,CPPP	S,M	None	None
Up Limit Switch Open	S	L	2	S,M	S,M	None	None
Down Limit Switch Open	S	L	3	S,M	S,M	None	None
Keyswitch Closed (not currently used)	S	L	4	M,PPCC	M	None	None
Seat Fold Switch Open (not currently used)	S	L	5	M	M	None	None
Mid-Rail Park Active	S	L	6	S	S	None	None
Brake Input switch	S	L	7	M	M	None	None
Soft Stop Switch	S	L	8	None	None	None	None
Operation Switch Group (O)							
Rocker Up	S	O	1	None	None	None	None
Rocker Down	S	O	2	None	None	None	None
Learn Switch	S	O	3	None	None	None	None
Remote Up	S	O	4	None	None	None	None
Remote Down	S	O	5	None	None	None	None
Diagnostics Group (d)							
Speed Pot Fail (open)	CF	d	1	None	None	None	None
Transmitter ID Memory Full	CF	d	2	BLL	BLL	None	None
Program Memory Bad CheckSum	CF	d	3	None	None	None	None
Over Current Fault	CF	d	4	CCCC	CCCC	None	CCCC
Over Temperature Fault	CF	d	5	CCC	CCC	None	CCC
Speed Over Ride on High Temperature.	CF	d	6	None	None	None	None
Low Voltage Stop	CF	d	7	CCCCC	CCCCC	None	CCCCC
Unlearned Remote Unit	CF	d	8	None	None	None	None
Relay FET Fault Group (F)							
Drive FET Shorted	CF	F	1	None	None	None	None
Safety Relay Shorted	CF	F	2	None	None	None	None
H-Bridge Relay Fault	CF	F	3	None	None	None	None
Safety Circuit Faulted	CF	F	4	None	None	None	None
Test Input High (Internal Failure, should never happen)	CF	F	5	None	None	None	None
Test Input Low (Internal Failure, should never happen)	CF	F	6	None	None	None	None
Aux Current Measurement Failure (Prior to SW Rev. 2.7 only-see A9)	CF	F	7	None	None	None	None
Unknown Relay Fault (should never happen)	CF	F	8	None	None	None	None
AUX Group							
Swivel Enable	S	A	1	None	None	None	None
Seat Fold Switch Closed	S	A	2	None	None	None	None
Swivel Limit Open	S	A	3	None	None	None	None
Footrest Up Limit Open	S	A	4	None	None	None	None
Footrest Down Limit Open	S	A	5	None	None	None	None
Swivel Actuator Blocked	S	A	6	None	None	None	None
Footrest Actuator Blocked	S	A	7	None	None	None	None
Aux Actuator Active	S	A	8	None	None	None	None
Aux Actuator Fault	CF	A	9	None	None	None	None
Aux Communication Fault	CF	A	0	None	None	None	None
Power Rail Group							
Rail Up Limit	S	P	1	None	None	None	None
Rail Down Limit	S	P	2	None	None	None	None
Rail Disable	S	P	3	None	None	None	None
Reserved		P	4	None	None	None	None
Reserved		P	5	None	None	None	None
Reserved		P	6	None	None	None	None
Rail Actuator Blocked	S	P	7	None	None	None	None
Rail Actuator Active	S	P	8	None	None	None	None
Rail Actuator Fault	CF	P	9	None	None	None	None
Rail Communication Failure	CF	P	0	None	None	None	None
Run Time in seconds (No display ,4 bytes in EEPROM)	None	None	None	None	None	None	None
				B = 0.5 second tone L = 1 second tone C = 0.25 second tone P = 1 second no tone S = 0.25 second tone when opened M = 0.25 second tone when movement requested			
Additional Audible Codes							
Multiple Buttons Pressed at Power-up	Normal Button Codes			BBP????	BBP????	None	None
Multiple Buttons Pressed	Normal Button Codes			BBP???	BBP???	None	None
				Question marks stand for in this order: Left rocker, Right Rocker, Learn Switch, Remote Up, Remote Down			