

**Model C2/Ci2/F/Fi Error Code List**

Rev.1.02

Error Code	Display	Model	Cause/Error name	Behavior after an error	Resolution
01	01	C2/Ci2	The controller was operated with the arm raised.	The device will stop, then shut down after the notification.	Rotate the arm down and turn the device on.
01	01	F/Fi	The power was turned on with the device folded and the joystick was operated.	The device will stop, then shut down after the notification.	Turn on the device with the device in the correct position(not folded).
02	02	C2/Ci2/F/Fi	The device was turned on while the controller was not in the neutral position.	The device will stop, then shut down after the notification.	Turn on the device without touching the controller.
03	03	C2/Ci2/F/Fi	Brake is released.	The device will stop, then shut down after the notification.	Lock the brake and turn the device on.
04		C2/Ci2/F/Fi	The power was turned on with the charger connected. / The charger was connected with the power on.	The device will stop, then shut down after the notification.	Remove the charger.
05		C2/Ci2/F/Fi	Battery remaining 20% or less	The warning logo will appear when: 1. The device is turned on; or 2. 20%, 15%, 10%, 5% are reached	Charge the battery.
06		C2/Ci2/F/Fi	Battery has reached 0%	The device will stop, then shut down after the notification.	Charge the battery
08		C2/Ci2	You may be on a very steep slope (please judge this as a reference).	LED display and voice notification only	You may be on a slope where you cannot run safely. Carefully move to a gentler slope which is 10° or less. Once notification is made, no re-notification is made for 2 minutes.
09	09	C2/Ci2/F/Fi	The pair of the HMI and MC is not correct. • An C2/Ci2 HMI and F/Fi MC • An F/Fi HMI and C2/Ci2 MC	The warning logo will appear when the device is turned on, then the device will shut down after the notification.	Pair the HMI of Model C2/Ci2 with MC of Model C2/Ci2. Pair the HMI of Model F/Fi with MC of Model F/Fi.
10	10	C2/Ci2/F/Fi	Failure of communication related to seat cable	The warning logo will appear, then the device will shut down after the notification. Error code may not appear due to the loss of power supply.	1. Remove the battery and reinsert it after 10 seconds. 2. Turn off the device. Wait for 5 seconds. Remove the seat base and put it back. Turn on the device.(Model C2/Ci2) 3. Clean the contact surface of the connector between the seat base and main body.(Model C2/Ci2) 4. Replace the HMI, seat cable, main body cable or MC.
12	12	C2/Ci2/F/Fi	Battery communication failure	Error notification when 60 seconds have elapsed since communication failure occurred, stop driving when 110 seconds have elapsed, and turn off the power after error notification.	1. Remove the battery and reinsert it after 10 seconds. 2. Contact your dealer for repair.
13	13	C2/Ci2/F/Fi	The battery was removed when the power was on.	The device will stop, then shut down after the notification. Error code may not appear due to the loss of power supply.	Insert a battery
14		C2/Ci2/F/Fi	Low temperature mode The temperature of the battery dropped significantly (roughly 0°C or less).	LED display and voice notification only	Store the battery at room temperature or above 0°C and wait until the temperature of the battery returns to 0°C or above.
16		C2/Ci2/F/Fi	Smart key battery low	LED display and voice notification only	Replace the smart key battery.
20	20	C2/Ci2/F/Fi	Battery regeneration current too large (detected by the MC)	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
21	21	C2/Ci2/F/Fi	Battery regeneration current too large (detected by the battery)	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
22	22	C2/Ci2/F/Fi	Battery voltage is low (warning)	The device will stop, then shut down after the notification.	Charge the battery.
23	23	C2/Ci2/F/Fi	Battery voltage too low (forced shutdown by safety function)	The device will stop, then shut down after the notification.	Charge the battery.
24	24	C2/Ci2/F/Fi	Battery regeneration current too large (warning)	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
25	25	C2/Ci2/F/Fi	Battery regeneration current too large (forced shutdown by safety function)	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
26	26	C2/Ci2/F/Fi	Battery overload, such as climbing a steep slope with weight (warning)	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
27	27	C2/Ci2/F/Fi	Battery overload, such as climbing a steep slope with heavy weight (forced shutdown by safety function)	The device shuts down because the battery will stop the power supply.	Remove the battery and insert after 10 seconds.
28	28	C2/Ci2/F/Fi	Battery overload, such as climbing a steep slope with heavy weight (forced shutdown by safety function)	The device shuts down because the battery will stop the power supply.	Remove the battery and insert after 10 seconds.

29	29	C2/Ci2/F/Fi	Battery cell over temperature (warning)	The device will stop, then shut down after the notification.	Remove the battery. Cool the battery to room temperature.
30	30	C2/Ci2/F/Fi	Battery cell over temperature (forced shutdown by safety function)	The device will stop, then shut down after the notification.	Remove the battery. Cool the battery to room temperature.
31	31	C2/Ci2/F/Fi	Excessive regenerative power was generated with the battery at low temperature (warning)	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
32	32	C2/Ci2/F/Fi	Excessive regenerative power was generated with the battery at low temperature (forced shutdown by safety function)	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
33	33	C2/Ci2/F/Fi	Failed to initialize the battery internal clock	The device can still run but its log time will be inaccurate.	The device can still run but its log time will be inaccurate.
34	34	C2/Ci2/F/Fi	Excessive regenerative power was generated	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
35	35	C2/Ci2/F/Fi	The battery was cool and overloaded.	The device will stop, then shut down after the notification.	Turn off the device and wait for 5 seconds, then turn it on.
36	36	C2/Ci2/F/Fi	Battery high temperature (detected by the battery safety circuit 1)	The device will stop, then shut down after the notification.	Remove the battery. Cool the battery to room temperature.
37	37	C2/Ci2/F/Fi	Battery high temperature (detected by the battery safety circuit 2)	The device will stop, then shut down after the notification.	Remove the battery. Cool the battery to room temperature.
38	38	C2/Ci2/F/Fi	Battery circuit short	The device will stop, then shut down after the notification. Error code may not appear due to the loss of power supply.	<ol style="list-style-type: none"> <li>1. Remove the battery and insert after 10 seconds.</li> <li>2. Charge the battery.</li> <li>3. Replace the battery.</li> </ol>
39	39	C2/Ci2/F/Fi	Battery miscellaneous error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and insert after 10 seconds.</li> <li>2. Charge the battery.</li> <li>3. Leave the battery at room temperature to cool / warm it.</li> <li>4. Replace the battery.</li> </ol>
40	40	C2/Ci2/F/Fi	Joystick error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the HMI.</li> </ol>
42	42	C2/Ci2/F/Fi	LED error	LED indication on the controller disappears (The device can still run.)	<ol style="list-style-type: none"> <li>1. Turn the device off. Wait for 5 seconds, then turn it on again.</li> <li>2. Replace the HMI.</li> </ol>
44	44	C2/Ci2/F/Fi	CAN communication error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Turn off the device and wait for 5 seconds. Remove the seat base. Put it back and turn the device on.(Model C2/Ci2)</li> <li>3. Clean the contact surface between the seat base and main body.(Model C2/Ci2)</li> <li>4. Replace the HMI, seat cable, main body cable or MC.</li> </ol>
50	50	C2/Ci2/F/Fi	Tail light over current	The tail light will go off.	<ol style="list-style-type: none"> <li>1. Replace the tail light cable.</li> <li>2. Replace the MC.</li> </ol>
60	60	C2/Ci2/F/Fi	Motor overload	The device will stop, then shut down after the notification.	Turn on the power again.
61	61	C2/Ci2/F/Fi	Motor too hot (detected by the motor)	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Cool the motor</li> <li>2. Replace the motor</li> </ol>
62	62	C2/Ci2/F/Fi	Motor too cold	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Warm the motor up</li> <li>2. Replace the motor</li> </ol>
63	No indication	C2/Ci2/F/Fi	The speed profile is not set correctly.	The mode (speed setting) becomes the standard setting.	Change the settings from the app
64	64	C2/Ci2/F/Fi	The joystick information was not received.	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
65	65	C2/Ci2/F/Fi	Motor sensor error	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
69	69	C2/Ci2/F/Fi	CAN communication error (detected by the MC)	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
70	70	C2/Ci2/F/Fi	Motor too hot (detected by the MC)	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Cool the motor</li> <li>2. Replace the MC.</li> </ol>
71	71	C2/Ci2/F/Fi	Motor driver IC over-voltage	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
72	72	C2/Ci2/F/Fi	Motor driver IC under-voltage	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
73	73	C2/Ci2/F/Fi	Failure of the motor driver board (charge pump)	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
74	74	C2/Ci2/F/Fi	Motor control unit over current	The device will stop, then shut down after the notification.	Remove the battery and insert after 10 seconds.
80	80	C2/Ci2/F/Fi	Motor driver miscellaneous error 1	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>

81	81	C2/Ci2/F/Fi	Motor driver miscellaneous error 2	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>
82	82	C2/Ci2/F/Fi	Motor driver miscellaneous error 3	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>
83	83	C2/Ci2/F/Fi	Motor driver miscellaneous error 4	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>
84	84	C2/Ci2/F/Fi	SPI communication error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>
85	85	C2/Ci2/F/Fi	Motor angle detection error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>
86	86	C2/Ci2/F/Fi	Motor over current	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the motor.</li> <li>3. Replace the MC.</li> </ol>
87	87	C2/Ci2/F/Fi	Brake over voltage	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Replace the brake.</li> <li>3. Replace the MC.</li> </ol>
90	90	C2/Ci2/F/Fi	Status error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Contact your dealer for repair.</li> </ol>
91	91	C2/Ci2/F/Fi	Timeout error	The device will stop, then shut down after the notification.	<ol style="list-style-type: none"> <li>1. Remove the battery and reinsert it after 10 seconds.</li> <li>2. Contact your dealer for repair.</li> </ol>