MOTECK MOTORIZE OUR WORLD

Control Box

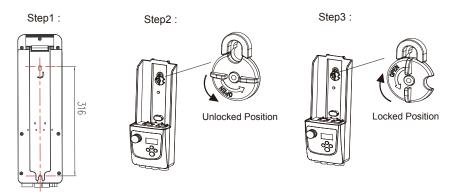


Model: CBP2

A. Installation

1. Control Box

- Step 1. Put two mounting bolts (M5 with 8mm head) onto the frame according to the drawing.
- Step 2. Turn the locker to "Unlock Position" (CCW), then mount Control Box onto the bolts of the frame.
- Step 3. Turn the locker clockwise to "Locked Position" to fix the Control Box.



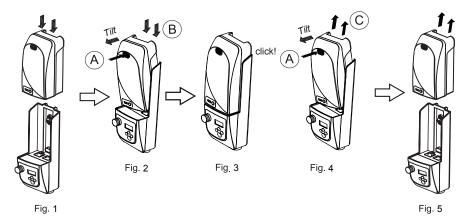
2. Battery Pack

2.1 Insert:

- 2.1.1 Hold the battery pack downward (Fig. 1)
- 2.1.2 Tilt the pack a little bit to get a smooth installation and keep pressing the release button (Fig. 2 \widehat{A})/ \widehat{B}).
- 2.1.3 Push the pack downward till you hear "click"(Fig. 3), make sure the pack will not be pulled out by hand without pressing release button.

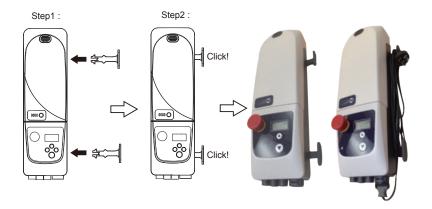
2.2 Remove:

- 2.2.1 Press release button and pull the pack out upward (Fig. 4 (A)/(C)).
- $2.2.2\ \text{Tilt the pack a little bit at the beginning of pulling (Fig. 5), then pull out the battery pack.}$

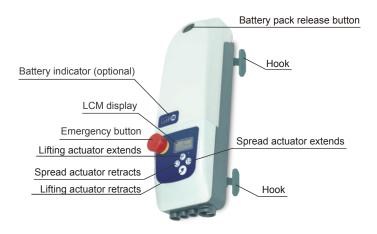


1

3. Hook

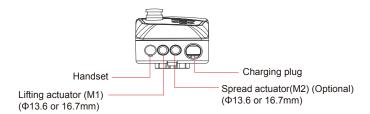


B. Interface

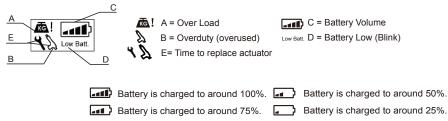


1. Connection

There are 4 connection ports as indication on following drawing.



2. LCM Display



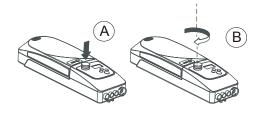
3. Emergency Stop

Press the button firmly to make it locked with click sound. It cuts off the power and actuator stop instantly.

i. Lock: Press the red button as shown in A, then the button locked and the power is cut off.

ii. Unlock: Turn the red button in clockwise, as shown in (B), then the button bounded and the power is restored.

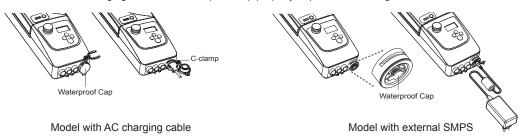
In order to keep the batteries stay in good condition for long, we strongly recommend you to press this button when not going to use this device for a couple days.



C. Battery Charging

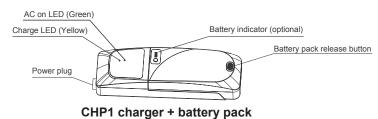
1. Charging on CBP2

- 1.1 When battery level remains only one bar on LCM display, Low Batt. icon keeps blinking or continuous 4 beeps in every 4 seconds sound, it is reminding users to charge the battery immediately.
- 1.2 Remove the cap and connect the charging cable properly.
- 1.3 If the model is with AC charging cable, insert the C-clamp to fix the cable.
- 1.4 The level bar on LCM and indicator on control panel keep blinking (1Hz) during charging, and all functions are locked.
- 1.5 The level bar and indicator keep lighting means charging is done.
- 1.6 When not charging, cover with waterproof cap properly to prevent water ingress.



2. CHP1 Charger (Optional)

2.1 CHP1 is an optional stand alone charger for BTP1 battery pack. User can charge additional battery pack (option) while CBP2 is on duty for use. Be noted that CHP1 equips EI type transformer and has to follow the AC voltage of the country.



2.2 The Charge LED keeps blinking (1Hz) during charging, and all functions are locked. The LED indicator keeps lighting means charging is done.

D. Operation

1. Basic control function

1 means lifting actuator (M1)

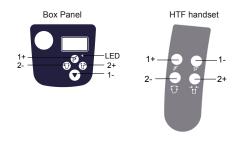
1+ : represents M1 extends

1-: represents M1 retracts

2 means spread actuator (M2)

2- : represents M2 retracts

2+ : represents M2 extends



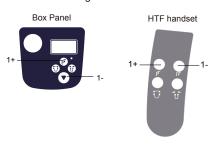
2. Soft start/stop & key tone

Function		Method	Feedback (LED blinks or sound)	
soft start/stop	ON	Keep pressing "1+" button on HTF handset,	Blinks 4 times, no sound	
	OFF	then unlock the emergency button	Blinks 2 times, no sound	
key tone (for 2-motor model only)	ON	Press 2+, 2- buttons on handset or panel at the same time.	Blinks 2 times, beep once	
	OFF		Blinks 2 times, no sound	

3. Check cumulative running time

- 3.1 Press 1+,1- buttons on the HTF or panel at the same time.
- 3.2 The number of level bar on the LCM means the cumulative running time.
- 3.3 It's approximate cumulative running time.

Level bar	Cumulative running time	
	over 150K sec.	
	over 300K sec.	
	over 450K sec.	
-41 1	over 600K sec.	



4. Error code trouble shooting

Display	Information	Disposal	
Low Batt.	Low battery (less than 20V DC, lifting actuator can only retract.)	Charging battery pack at once.	
\$ 41	Lifting actuator over duty (after 4mins continuous operating)	Stop operation for a while. The error message will gone automatically after sufficient rest.	
4 !	Lifting or Spread actuator over load	Find out and remove obstruction or improper load. Please call the agency if the error code keeps on.	
	Cumulative running time over 600K seconds on lifting actuator.	Call agency to replace the actuator.	

5. Setting mode (only available with service handset by service agency)

5.1 How to get in setting mode?

Press the SET button (the fifth key) over 2 seconds to go into set mode.

5.2 The over load icon keeps blinking means CBP2 is under setting mode now.

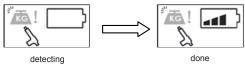


5.3 How to quit setting mode?

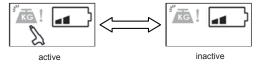
- 5.3.1 Press the SET button over 2 seconds or without any input over 10 seconds. The set data will be saved automatically.
- 5.3.2 If pressing the emergency button or remove the handset directly at this moment, then all the set data is nullity.
- 5.4 When CBP2 under setting mode, we can:
 - 5.4.1 Set the M1 actuator current limit on demand (operation available on handset or panel as well)
 - i. Press "2+" to increase the current limit on handset or panel
 - ii. Press "2-" to decrease the current limit on handset or panel
 - iii. The available range is 5~9A, step 1A.

Value	5A	6A	7A	8A	9A
Display	2	2			

- 5.4.2 Detect the M1 actuator current limit by self-learning
 - i. Press "1+" for 1 second
 - ii. The lifting actuator extends automatically for 2.5 seconds
 - iii. The level bar disappeared means self-learning is on going, till the level bar appears again means the self-learning is done and CBP2 got a new current limit as shown below.



- iv. The available range is 5~9A, step 1A.
- 5.4.3 Switching the "Over duty protection on M1" active or inactive by pressing "2+" & "2-" at the same time.



5.4.4 Reset

- i. Pressing "1+" & "1-" at the same time over 2.5 seconds.
- ii. Then the device backs to default value, as shown below



iii Default: Key tone and soft start/stop off, over duty protection active, current limit 7A.

Service handset

SET