

**Manual**

# Control Box

## CBP3



**Revision**

2025.11\_V2.1

Technical changes may be made to improve the product without notice !

## Content

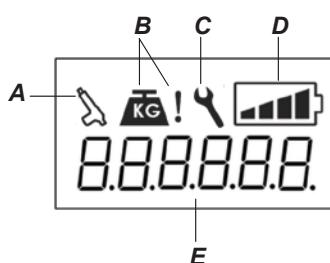
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## 1. I/O Introduction

### 1.1 CBP3 Control Box



### 1.2 LCM Display



**A**=Over duty on M1

**B**=Overload on M1 or M2

**C**=Remind to replace M1

**D**=Battery level bars

**E**=Error code display

Battery is charged to around 100%.

Battery is charged to around 75%.

Battery is charged to around 50%.

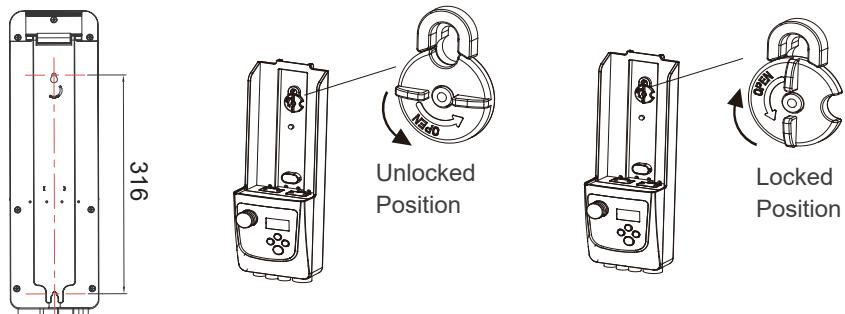
Battery is charged to around 25%.



## 2. Installation

### 2.1 CBP3 Control Box

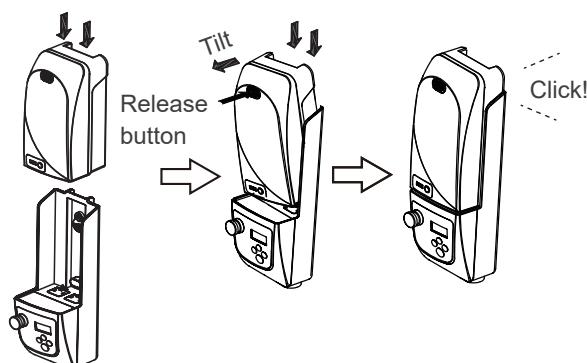
1. Put two mounting bolts (M5 with 8mm head) onto the frame according to the drawing.
2. Turn the locker to “Unlock Position” (CCW) , then mount Control Box onto the bolts of the frame.
3. Turn the locker clockwise to “Locked Position” to fix the Control Box.



### 2.2 BTP1 Battery Pack

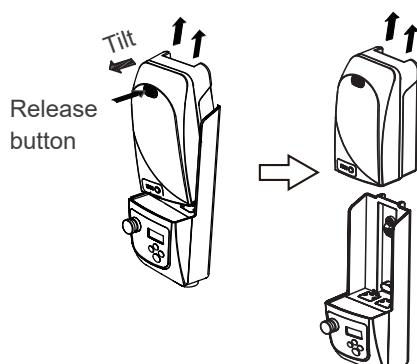
#### 2.2.1 Insert:

1. Hold the battery pack downward
2. Tilt the pack a little bit to get a smooth installation and keep pressing the release button
3. Push the pack downward till you hear "click", make sure the pack will not be pulled out by hand without pressing release button.



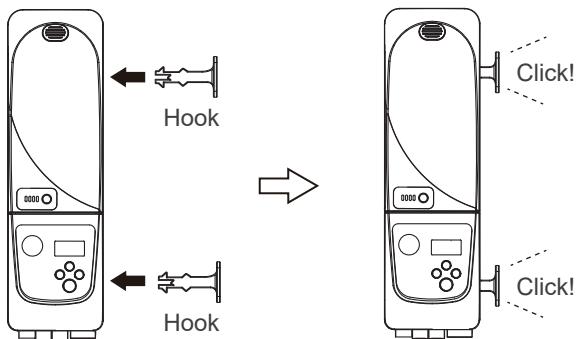
#### 2.2.2 Remove:

1. Press release button and pull the pack out upward
2. Tilt the pack a little bit at the beginning of pulling, then pull out the battery pack.



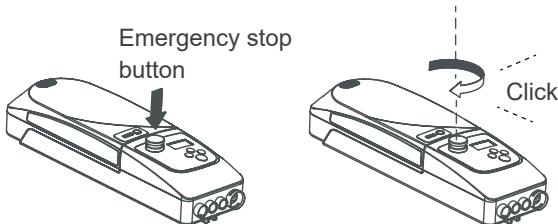
## 2.3 Hook

1. Align the two hooks with the grooves in the control box and insert them.
2. You will hear a "click" sound, indicating that the installation is complete.



## 3. Operation

### 3.1 Emergency Stop



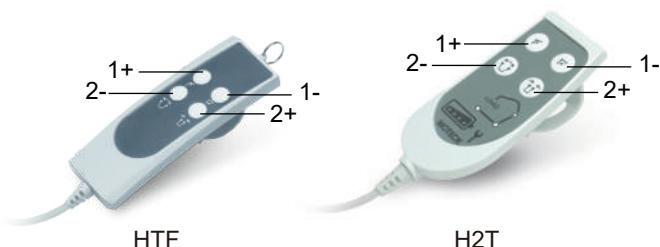
1. Lock: Press the emergency stop button firmly until you hear a "click". The button will lock and cut off the power, and the actuator will stop moving immediately.
2. Release: Rotate clockwise to release the button and power will be restored.



- 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.

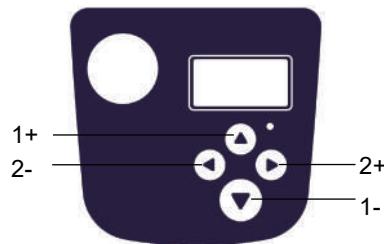
### 3.2 End user operations

1. Press and hold the 1+ button to extend the lifting actuator (M1), and release it to stop.
2. Press and hold the 1- button to retract the lifting actuator (M1), and release it to stop.
3. Press and hold the 2+ button to extend the spreading actuator (M2), and release it to stop.
4. Press and hold the 2- button to retract the spreading actuator(M2), and release it to stop.



### 3.3 Alternate operation buttons

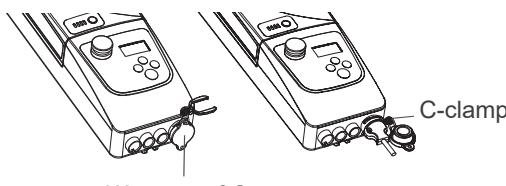
1. Press and hold the 1+ button to extend the lifting actuator (M1), release to stop.
2. Press and hold the 1- button to retract the lifting actuator (M1), release to stop.



### 3.4 Battery Charging

#### 3.4.1 Charging on CBP3

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.
2. Remove the cap and connect the charging cable properly.
3. If the model is with AC charging cable, insert the C-clamp to fix the cable.
4. The level bar on LCM keep blinking and the indicator on control panel always on during charging, all functions are locked.
5. The level bar keep on means charging is done.
6. When not charging, cover with waterproof cap properly to prevent water ingress.



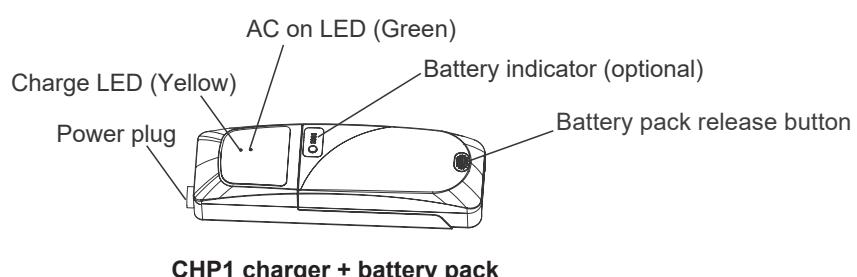
Model with AC charging cable



Model with external SMPS

#### 3.4.2 Charging the CHP1

1. CHP1 is an optional stand alone charger for BTP1 battery pack. User can charge additional battery pack (option) while CBP3 is on duty for use. Be noted that CHP1 equips EI type transformer and has to follow the AC voltage of the country.
2. The Charge LED keeps blinking during charging, and all functions are locked. The LED indicator keeps lighting means charging is done.

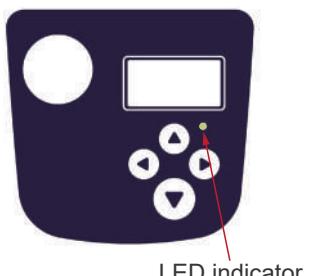


CHP1 charger + battery pack



### 3.5 Soft start & key tone

Function	Combination key	Feedback	
soft start	Press 1+, 1- buttons on HTF or H2T handset at the same time.	ON	The LED indicator flashes green 4 times.
		OFF	The LED indicator flashes green 2 times.
key tone (for 2-motor model only)	Press 2+, 2- buttons for 3 seconds on handset panel at the same time.	ON	The LED indicator flashes green twice, and the buzzer sounds a short beep.
		OFF	The LED indicator flashes green 2 times.



## 4. Error code trouble shooting

No.	Display	Information	Disposal
1		Low battery (less than 20V DC, lifting actuator can only retract.)	Charging battery pack at once.
2		Lifting actuator over duty (after 4mins continuous lifting)	Stop operation for a while. The error message will gone automatically after sufficient rest.
3		Lifting actuator (M1) over load.	Find out and remove obstruction or improper load.
4		Spreading actuator (M2) over load.	Please find out the cause. (Let the actuator moves in reverse direction over 2 seconds)
5		Cumulative running time over 600K seconds on lifting actuator (M1).	Call agency to replace the actuator.



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