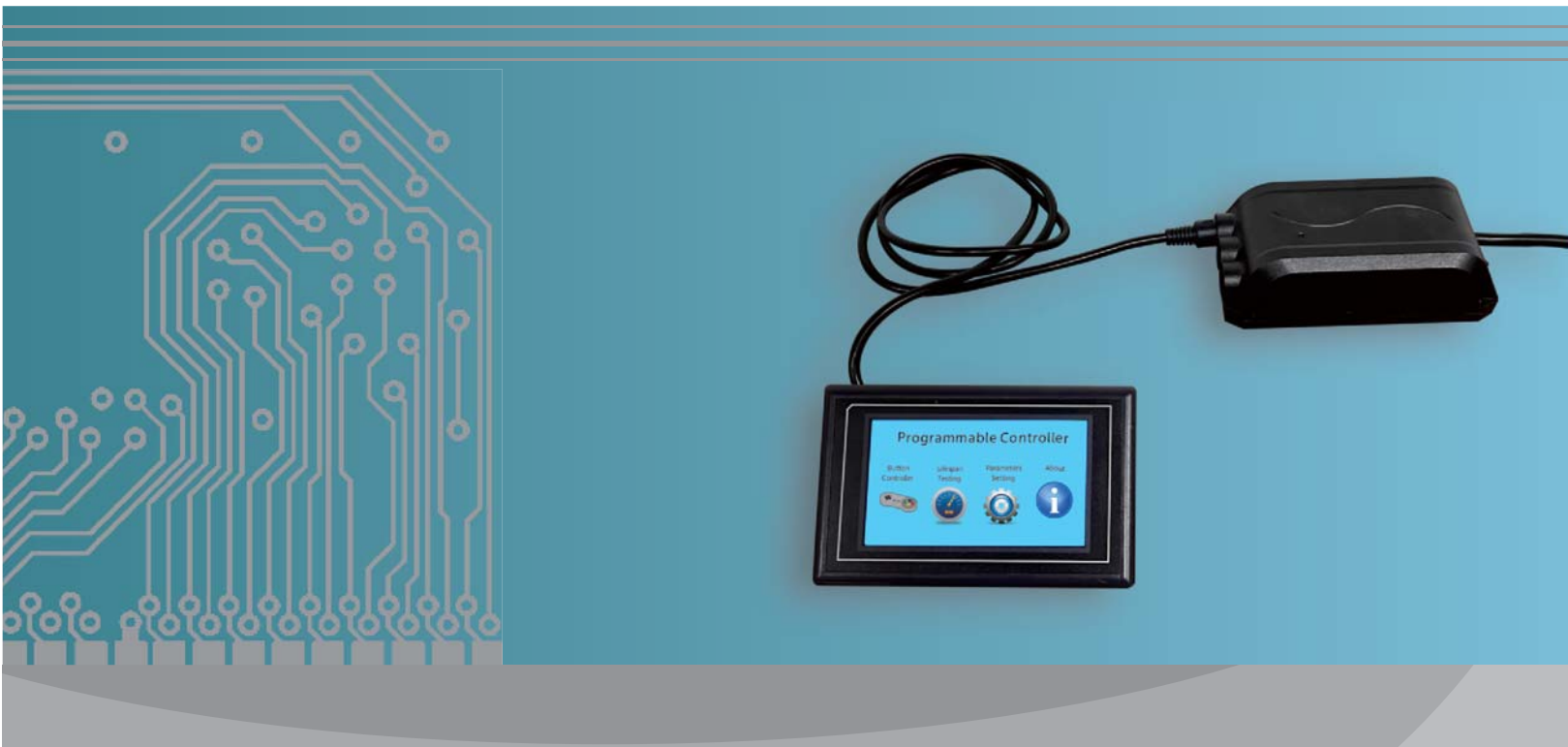




# Cartuator roof lifting system debugging manual

Required tool: Cartuator programmable controller



## **! Please note**

The current of lifting system actuators relate to roof weight, so please keep the roof weight in its final state when setting parameters.


If other electrical appliances need to be installed on the roof after setting the parameters, please follow below steps to reset the parameters after installation.

**Factories use only**


[www.antuatorlinear.com](http://www.antuatorlinear.com)

## 1.Set Up overcurrent


- 1.1 Connect the programmable controller to main controller then enter Lifespan testing page.

Worked Times	21	Duty Cycle 3	0	Lifespan Testing 
Inclination Angle	0	Duty Cycle 4	0	
Channel 1 Pulses	504054	Channel 1 Current	0	Voltage 11926
Channel 2 Pulses	504067	Channel 2 Current	239	Current 0
Channel 3 Pulses	500000	Channel 3 Current	0	NoERR
Channel 4 Pulses	500000	Channel 4 Current	0	
Pulse Deviation Number	13	Speed	0.0	Start STOP
Duty Cycle 1	0	Hall Frequency	0	
Duty Cycle 2	0	Waiting Time	10	

- 1.2 Use remote control or rocker switch to raise the roof.
- 1.3 Observe the values of channel 1 current and channel 2 current in the Lifespan testing page during the roof raising process, and record the maximum value that appears (If the lifting system has four actuators, please simultaneously observe the values of channel 1 current, channel 2 current, channel 3 current, and channel 4 current, and record the maximum value that appears).

Worked Times	21	Duty Cycle 3	0	Lifespan Testing 
Inclination Angle	0	Duty Cycle 4	0	
Channel 1 Pulses	504054	Channel 1 Current	0	Voltage 11926
Channel 2 Pulses	504067	Channel 2 Current	239	Current 0
Channel 3 Pulses	500000	Channel 3 Current	0	NoERR
Channel 4 Pulses	500000	Channel 4 Current	0	
Pulse Deviation Number	13	Speed	0.0	Start STOP
Duty Cycle 1	0	Hall Frequency	0	
Duty Cycle 2	0	Waiting Time	10	

- 1.4 Enter Parameters setting 4 page, find Up overcurrent option, add 2000 to the maximum value recorded in step 1.3, then input the sum into the Up overcurrent option.


Parameters setting 4 			
Jump current K	0	Thermal protection Enable	0
Jump current D	0	Cooling time (s)	0
Power supply overcurrent(mA)	25000	Thermal protection distance(mm)	0
Up overcurrent (mA)	15000	Save time (s)	0
Down overcurrent (mA)	15000		
Reset overcurrent (mA)	07000		

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(Please note that if the actuator of the lifting system is ANT-38, the maximum value of Up overcurrent should be 4500 and cannot exceed 4500; if the actuator of the lifting system is ANT-52, the maximum value of Up overcurrent should be 10000 and cannot exceed 10000).


## 2. Set Down overcurrent

2.1 Connect the programmable controller to main controller then enter Lifespan testing page.


Worked Times	21	Duty Cycle 3	0	Lifespan Testing 
Inclination Angle	0	Duty Cycle 4	0	
Channel 1 Pulses	504054	Channel 1 Current	0	Voltage 11926
Channel 2 Pulses	504067	Channel 2 Current	239	Current 0
Channel 3 Pulses	500000	Channel 3 Current	0	NoERR
Channel 4 Pulses	500000	Channel 4 Current	0	
Pulse Deviation Number	13	Speed	0.0	Start STOP
Duty Cycle 1	0	Hall Frequency	0	
Duty Cycle 2	0	Waiting Time	10	

2.2 Use remote control or rocker switch to lower the roof.

2.3 Observe the values of channel 1 current and channel 2 current in the Lifespan testing page during the roof lowering process, and record the maximum value that appears (If the lifting system has four actuators, please simultaneously observe the values of channel 1 current, channel 2 current, channel 3 current, and channel 4 current, and record the maximum value that appears).

Worked Times	21	Duty Cycle 3	0	Lifespan Testing 
Inclination Angle	0	Duty Cycle 4	0	
Channel 1 Pulses	504054	Channel 1 Current	0	Voltage 11926
Channel 2 Pulses	504067	Channel 2 Current	239	Current 0
Channel 3 Pulses	500000	Channel 3 Current	0	NoERR
Channel 4 Pulses	500000	Channel 4 Current	0	
Pulse Deviation Number	13	Speed	0.0	Start STOP
Duty Cycle 1	0	Hall Frequency	0	
Duty Cycle 2	0	Waiting Time	10	

2.4 Enter Parameters setting 4 page, find Down overcurrent option, add 2000 to the maximum value recorded in step 2.3, then input the sum into the Down overcurrent option.

Parameters setting 4 			
Jump current K	0	Thermal protection Enable	0
Jump current D	0	Cooling time (s)	0
Power supply overcurrent (mA)	25000	Thermal protection Distance (mm)	0
Up overcurrent (mA)	15000	Save time (s)	0
Down overcurrent (mA)	15000		
Reset overcurrent (mA)	07000		

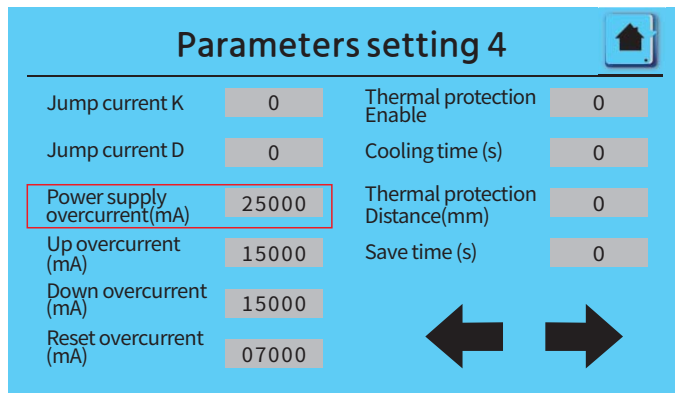
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(Please note that if the actuator of the lifting system is ANT-38, the maximum value of Down overcurrent should be 4500 and cannot exceed 4500; if the actuator of the lifting system is ANT-52, the maximum value of Down overcurrent should be 10000 and cannot exceed 10000).

### 3. Set Power supply overcurrent

Connect the programmable controller to main controller then enter the Parameters setting 4 page.

Multiply the set value of the Up overcurrent by 2, then input the obtained value into the Power supply overcurrent option. (If the lifting system has four actuators, multiply the set value of the Up overcurrent by 4, then input the obtained value into the Power supply overcurrent option).



**Parameters setting 4**

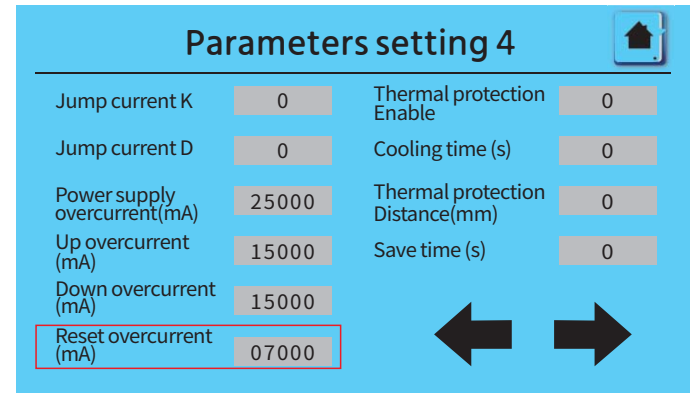
Jump current K	0	Thermal protection Enable	0
Jump current D	0	Cooling time (s)	0
Power supply overcurrent(mA)	25000	Thermal protection Distance(mm)	0
Up overcurrent (mA)	15000	Save time (s)	0
Down overcurrent (mA)	15000		
Reset overcurrent (mA)	07000		

(Please note that if the actuator of the lifting system is ANT-38 and the lifting system includes two ANT-38, the maximum value of Power supply overcurrent should be 9000 and cannot exceed 9000; if the actuator of the lifting system is ANT-38 and the lifting system includes four ANT-38, the maximum value of Power supply overcurrent should be 18000 and cannot exceed 18000; if the actuator of the lifting system is ANT-52 and the lifting system includes two ANT-52, the maximum value of Power supply overcurrent should be 20000 and cannot exceed 20000; If the lifting actuator is ANT-52 and the lifting system includes four ANT-52, the maximum value of Power supply overcurrent should be 40000 and cannot exceed 40000).

### 4. Set Reset overcurrent

Connect the programmable controller to main controller then enter the Parameters setting 4 page.

Enter the set value of Down overcurrent into the power overcurrent option.



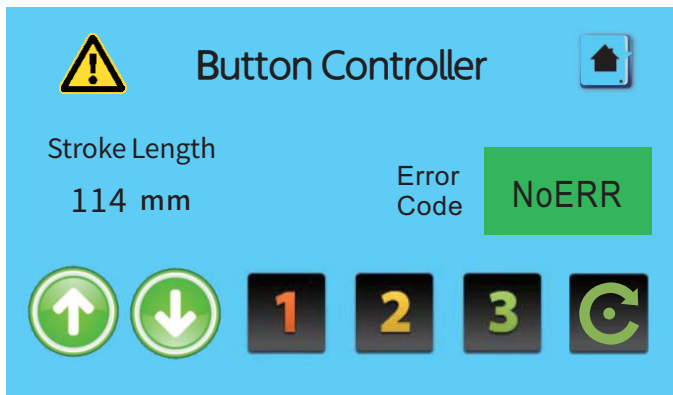
**Parameters setting 4**

Jump current K	0	Thermal protection Enable	0
Jump current D	0	Cooling time (s)	0
Power supply overcurrent(mA)	25000	Thermal protection Distance(mm)	0
Up overcurrent (mA)	15000	Save time (s)	0
Down overcurrent (mA)	15000		
Reset overcurrent (mA)	07000		

(Please note that if the actuator of the lifting system is ANT-38, the maximum value of Down overcurrent should be 4500 and cannot exceed 4500; if the actuator of the lifting system is ANT-52, the maximum value of Down overcurrent should be 10000 and cannot exceed 10000).

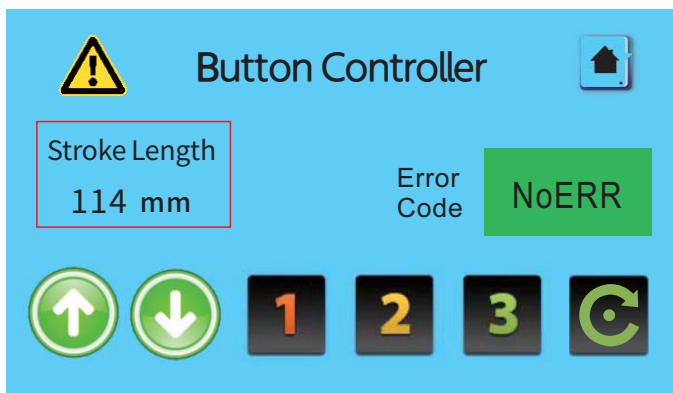
## 5.Set Upper limit

5.1 Connect the programmable controller to main controller then enter the Button controller page.

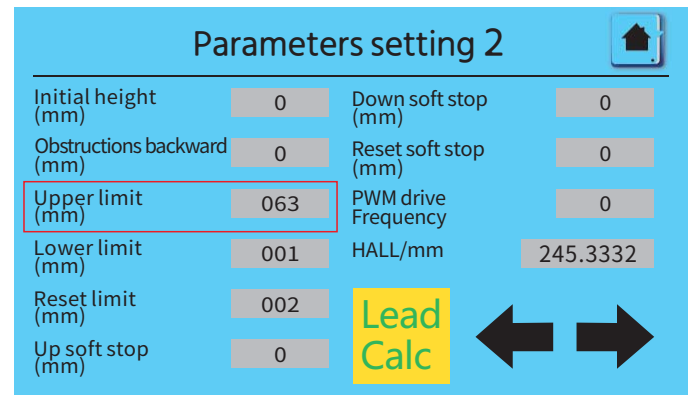


5.2 Use remote control or rocker switch to raise the roof to the desired height.

5.3 Observe the value displayed in the Stroke length option on the Button controller page and record it.

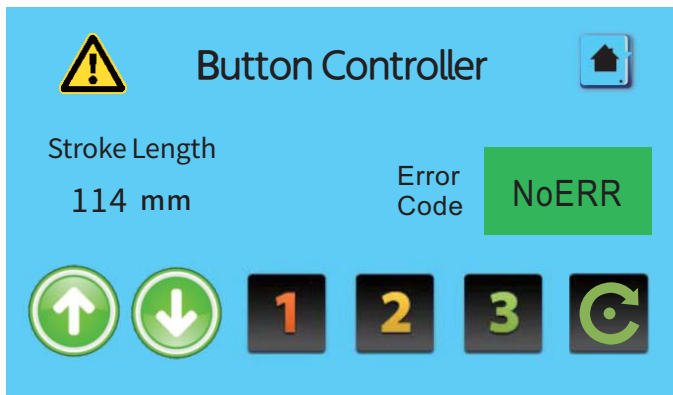


5.4 Enter Parameters setting 2 page of the Programmable controller, find the Upper limit option, and input the value recorded in step 5.3 by 10 to the Up limit option.



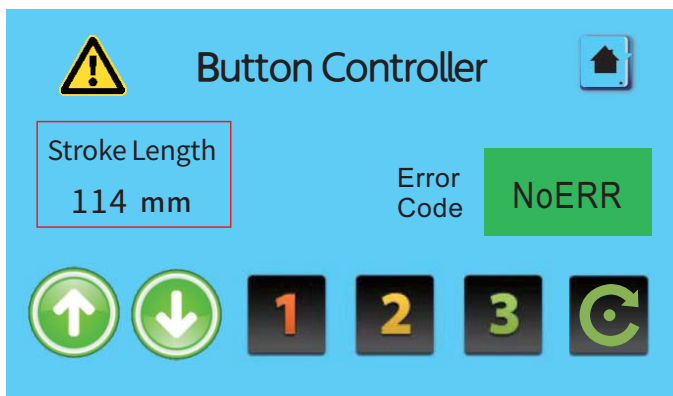
## 6.Set Lower limit

6.1 Connect the programmable controller to main controller then enter the Button controller page.

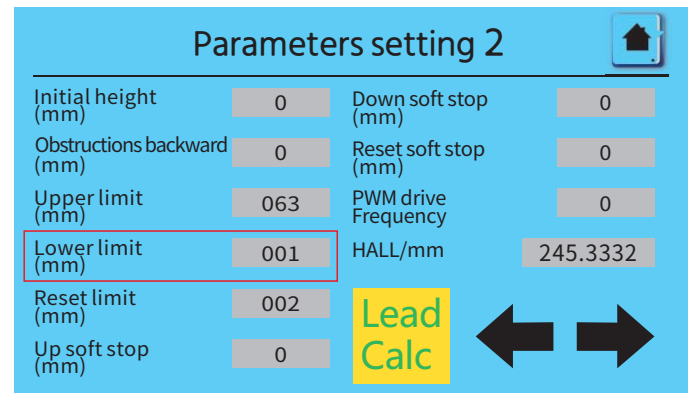


6.2 Use remote control or rocker switch to lower the roof to the desired height.

6.3 Observe the value displayed in the Stroke length option on the Button controller page and record it.



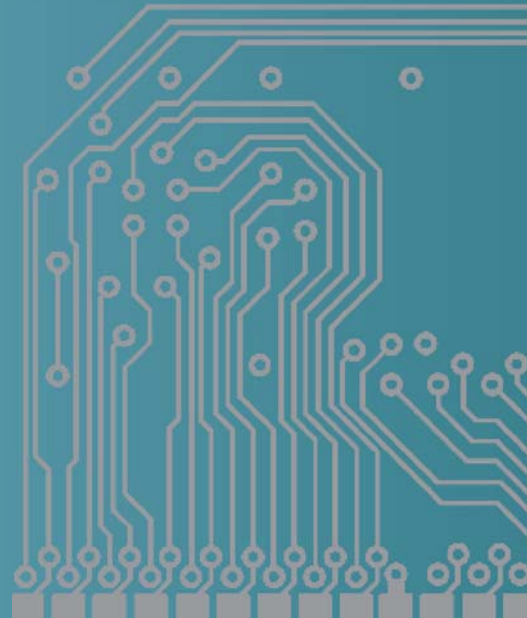
6.4 Enter Parameters setting 2 page of the Programmable controller, find the Lower limit option, and input the value recorded in step 6.3 by 10 to the Lower limit option.



(Please note that the minimum value for the Lower limit should be 2. If you want to set a value less than 2, please contact ANTUATOR for assistance. Thank you).



# CARTUATOR



Add: Room 604, Block A, No.199 Jinwan Road,  
Pudong New Area, Shanghai  
Web: [www.antuatorlinear.com](http://www.antuatorlinear.com)  
Tel: 0086 21 58999803  
Fax: 0086 21 58992839  
E-mail: [info@sito-motor.com](mailto:info@sito-motor.com)



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