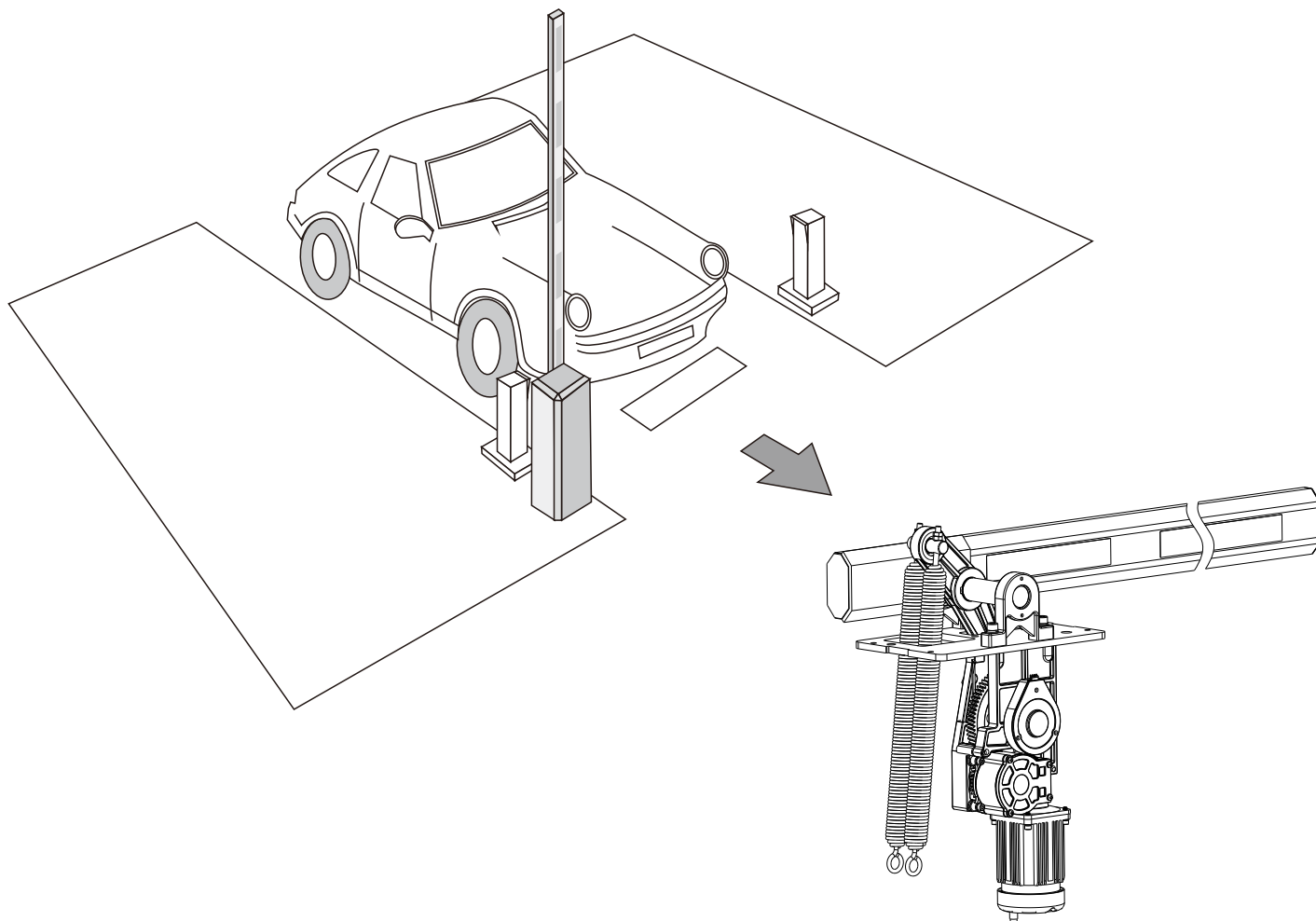


# User **Manual**

BG100-Grey & BGL-100

# Automated Vehicular Boom Gate System



**Installer and User's Manual**  
Please read carefully before using

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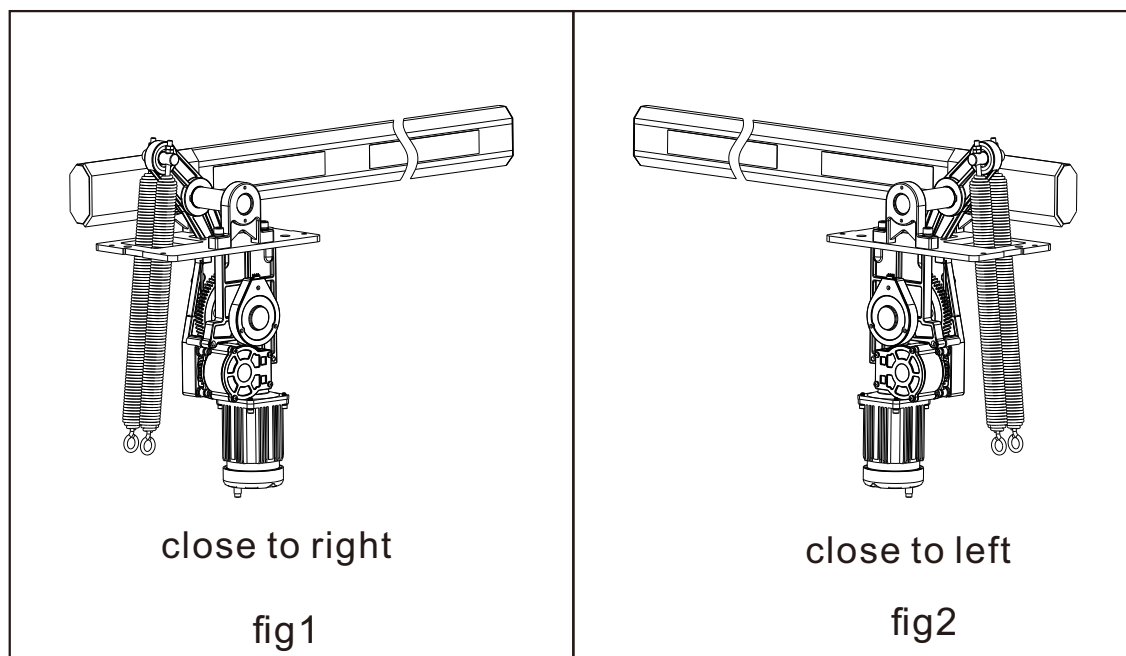
## A. Technical specifications

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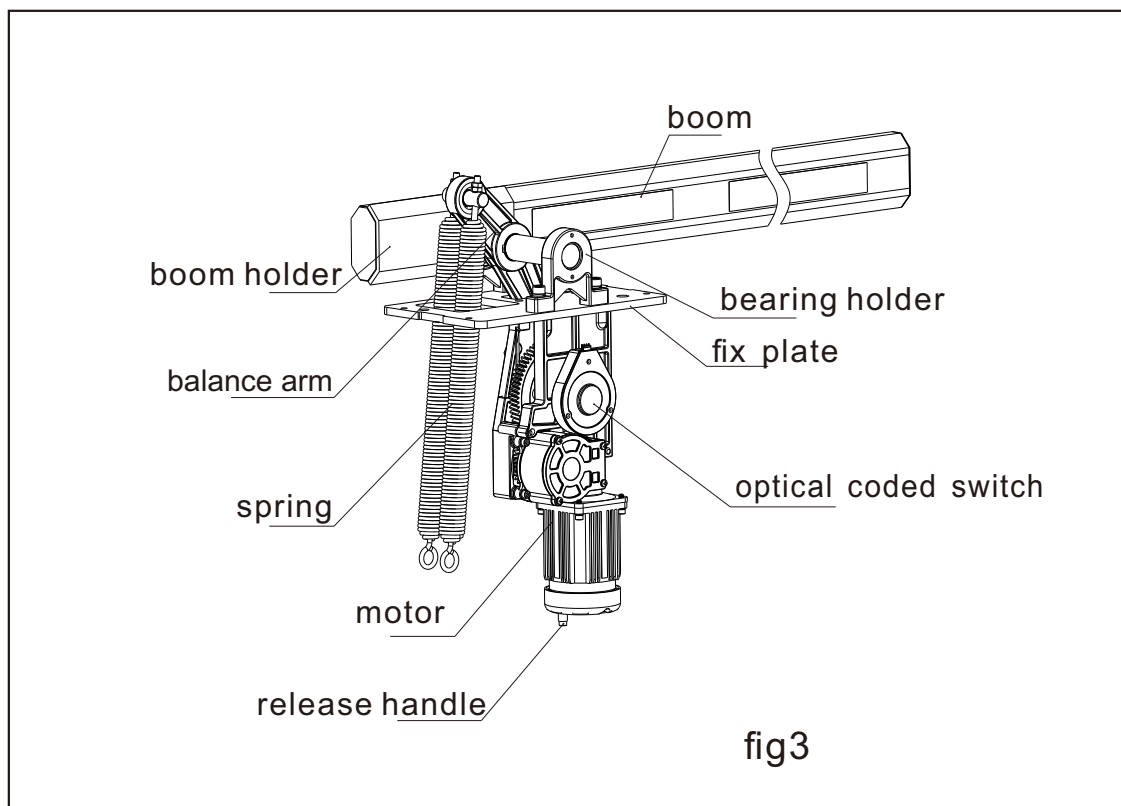
Power Supply:	220VAC50Hz/110VAC 60Hz
Motor's power:	240WAC
Max length of Boom:	5M
Time of Up/Down:	1.5S(for 1-3M) 3S(for 3-4M) 6S(for 5M)
Working environment:	-25℃-50℃
Protection class:	Ip55

## B. Direction of Barrier

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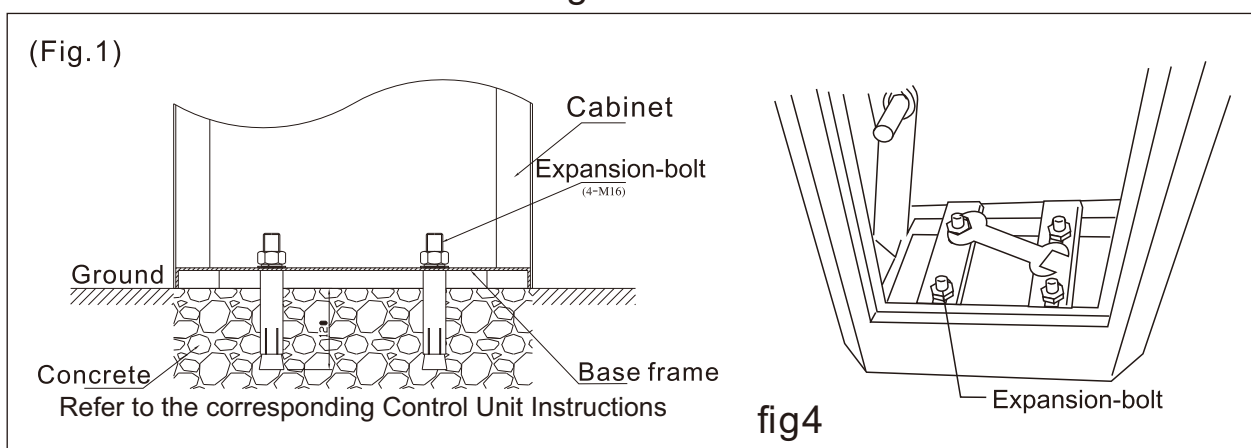


## C. Mechanical Structure



## D. Installing and adjusting

1. Install the machine on the ground ( fig4)



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## 2. Install boom (fig.5)

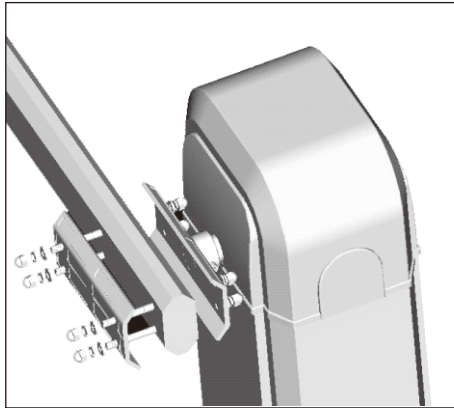
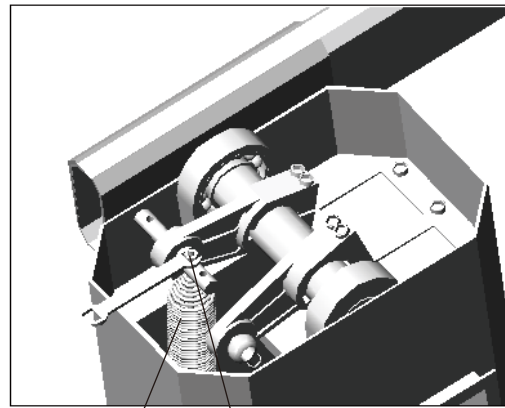


fig5



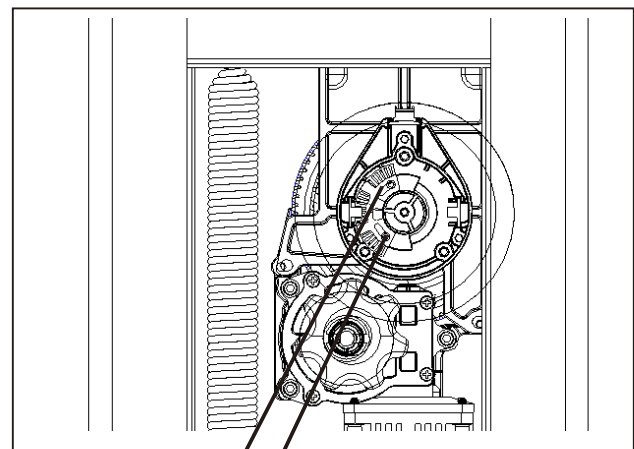
Spring

Adjust nut

fig6

## 3. Adjust the limit position

Barrier is supplied to you with the optical coded switch that is already set to allow optimum boom movement. Do not change the limit position



Screw for horizontal  
of boom

Screw for vertical  
of boom

fig7

## E. Manul release function

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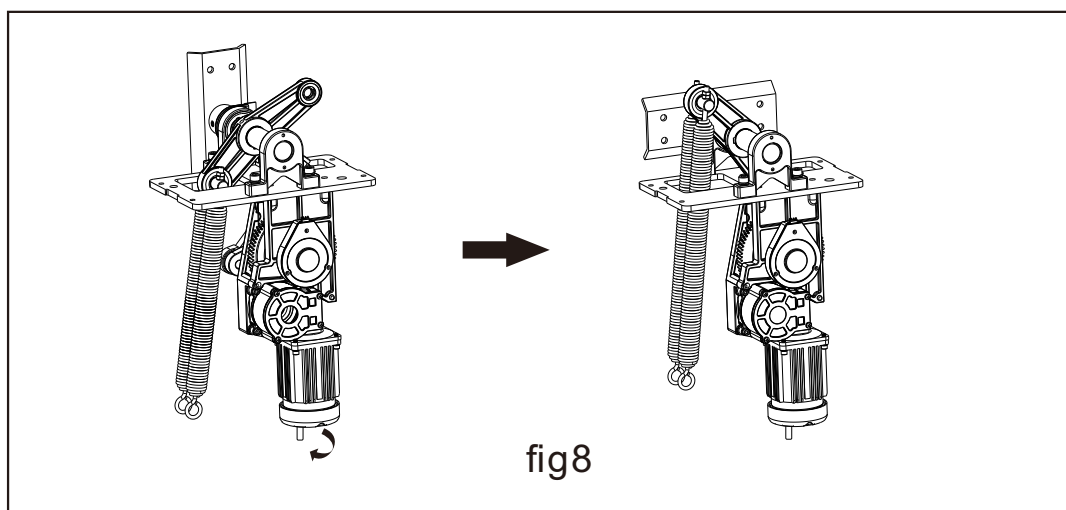
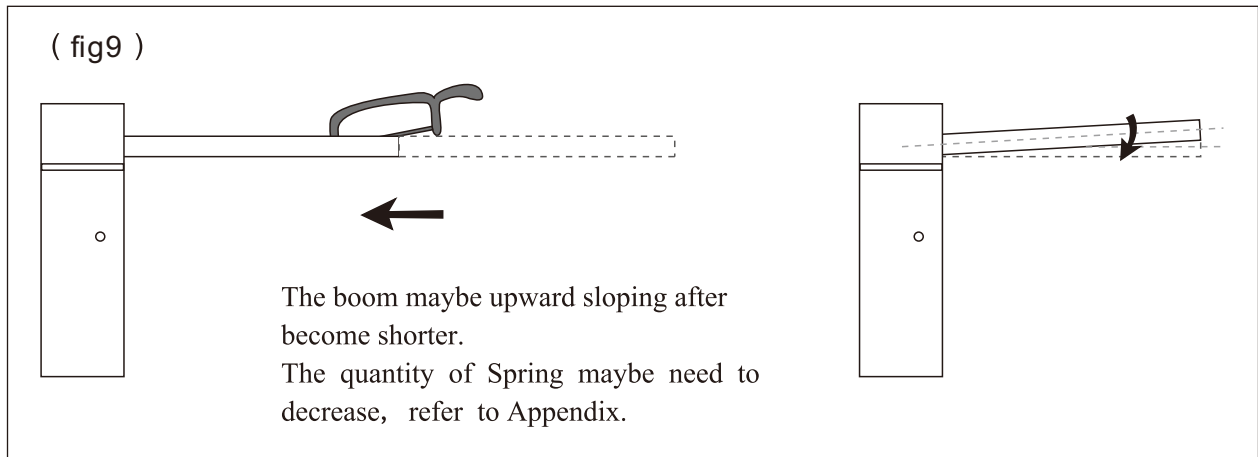


fig8

## D. Adjust the vertical and horizontal line of the Boom. \_\_\_\_\_

### D.1 Boom need to be shorter ( fig9 ) ( fig10 ) ( fig11 )



remove the spring quantity according to Appendix spring list, then adjust balance according to fig10 and fig11

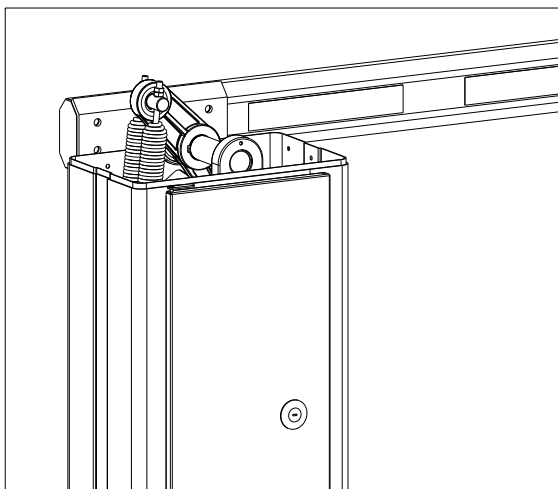


fig10

Note: the boom must be in horizontal position

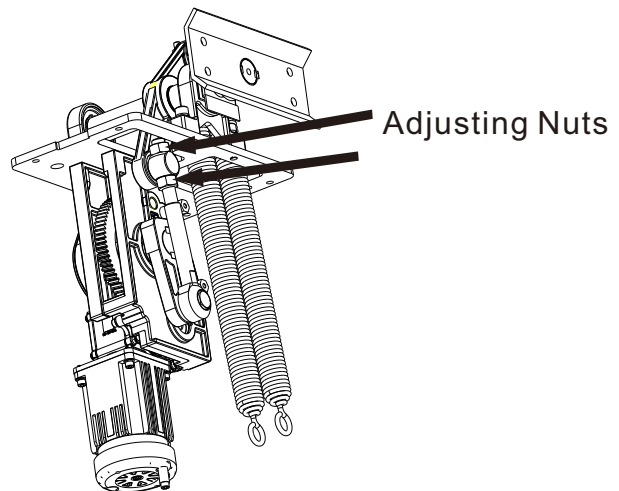
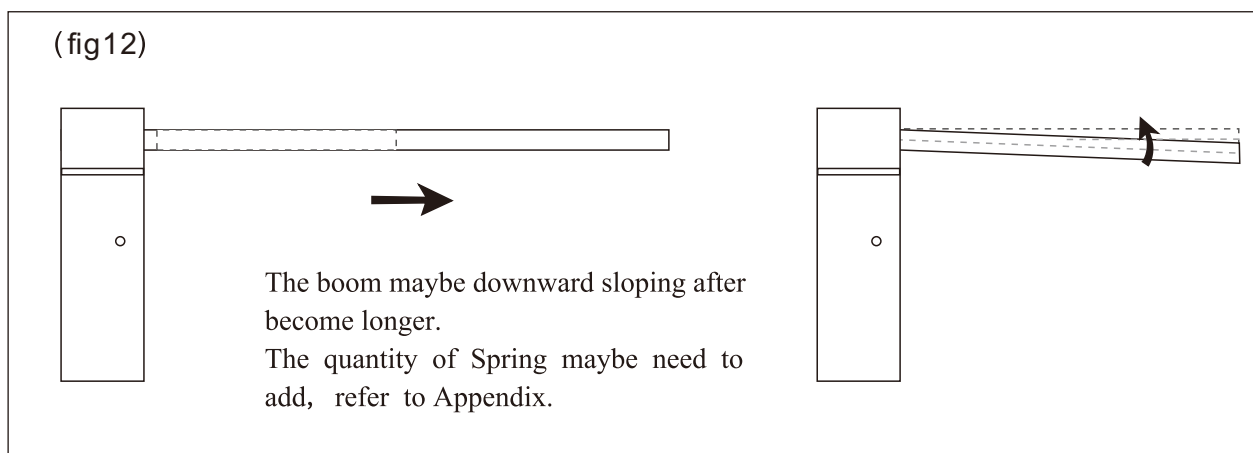


fig11

1. Loosen the Adjusting Nuts.
2. Adjust the Tuning Screw and see the Boom, if the Boom is perpendicular to the ground when it is open, tighten the Adjusting Nuts.

## D.2 Boom need to be longer ( fig12)(fig13)( fig14)



add the spring quantity according to Appendix spring list, then adjust balance according to fig13 and fig14

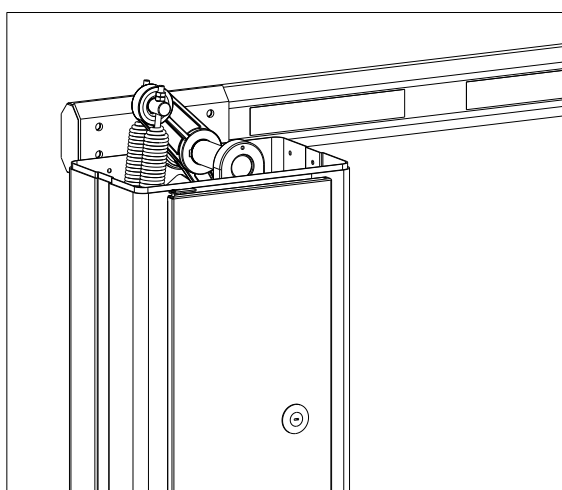


fig13

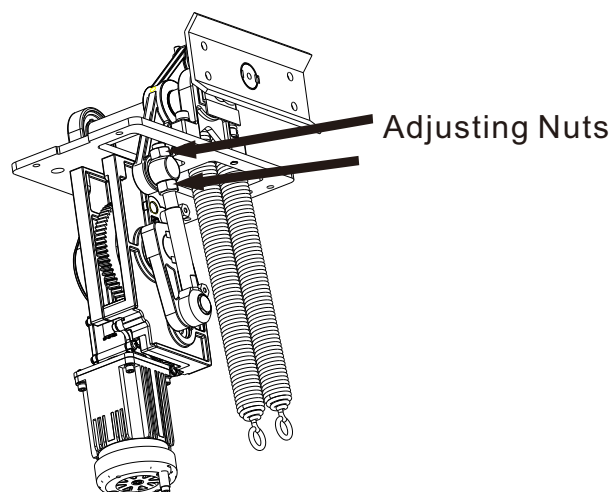


fig14

Note: the boom must be in horizontal position



### **Adjust the balance of the spring with boom.**

The springs have been already adjusted to balance with the boom. If the length of boom need to be changed, the springs should be re-adjusted.

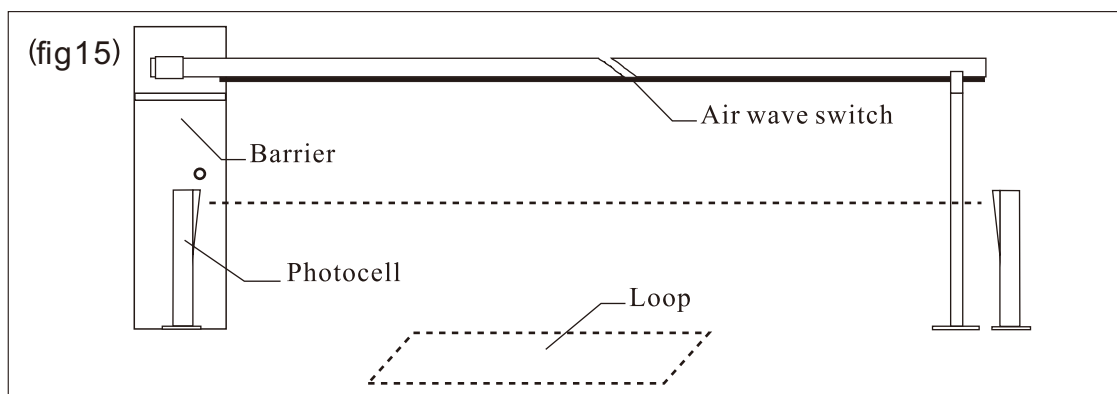
**See the Appendix and Fig3/Fig4/Fig5/Fig6**

- 1.Loosen the Adjusting Nuts.
- 2.Adjust the Tuning Screw and see the Boom, if the Boom is perpendicular to the ground when it is open, tighten the Adjusting Nuts.

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## E. Electrical safety devices (fig15)

- The BARRIERS limit switches, motor and control unit are already connected up.
- Only the photo cells, the loop detector and the supply voltage have to be connected up in installation.



## F. Packing List

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No.	Name	Quantity(Unit:pcs)	Marck
1	barrier	1	
2	boom	1	
3	boom clamp	1	
4	stud	4	
5	cap nut	8	M10
6	flat washer	8	ø10
7	spring washer	8	ø10
8	mounting plate	2	
9	explosive anchoring	4	M14*150
10	explosive anchoring	4	M10*100,boom $\geq$ 4M
11	boom support	1	boom $\geq$ 3M
12	control unit	1	including 2 remotes
13	manual	1	
14	key	2	



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## Appendix

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Table of spring quantity and size with Boom's length

Model	Boom length	Quantity of Spring	Spring Size
BS-7206	$\leq 3\text{M}$	1	$\varnothing 4$
	$\geq 3 \& \leq 4$	1	$\varnothing 5$
	$\geq 4 \& \leq 5$	2	$\varnothing 5$



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