

# ZKTeco CMP200 Automatic Barrier Gate User Manual

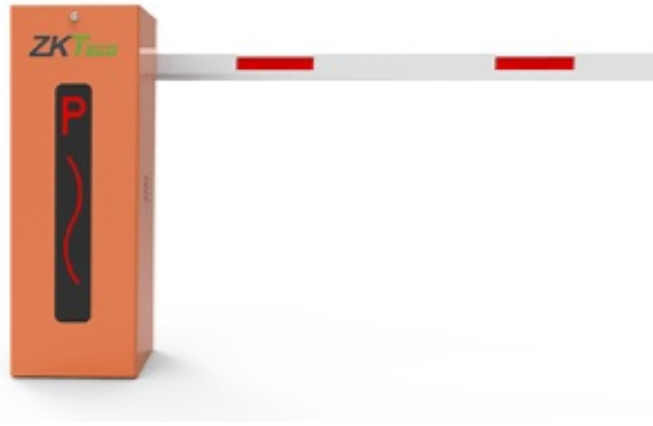
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**ZKTeco CMP200 Automatic Barrier Gate**



## Product Information

The product is the CMP200, manufactured by ZKTeco. The user manual provided is in English and version 1.2, dated March 2022. The manual contains important information on the operation and maintenance of the CMP200, including safety instructions and trademark information.

ZKTeco is the registered trademark owner of the CMP200. The manual warns against copying or forwarding any portion of it without prior written consent from ZKTeco. The manual also states that all parts of the manual belong to ZKTeco and its subsidiaries.

The manual contains a disclaimer stating that ZKTeco offers no warranty, guarantee, or representation regarding the completeness of any information contained in the manual or any amendments made to it. ZKTeco does not assume responsibility for any errors or omissions in the information or documents referenced in the manual.

The manual also warns that any conflicts between the terms and conditions of the manual and contract specifications, drawings, instruction sheets, or any other contract-related documents, the contract conditions/documents shall prevail.

## Product Usage Instructions

Before operating the CMP200, carefully read the user manual provided by ZKTeco. It is essential to follow the instructions provided to ensure proper functioning of the product.

It is recommended to visit ZKTeco's website for further details on the product.

The manual states that it is an essential pre-requisite for satisfactory operation and maintenance that operating and maintenance personnel are fully familiar with the design and have received thorough training in operating and maintaining the machine/unit/equipment. Therefore, it is advisable to receive proper training before operating the CMP200. It is also essential to read, understand, and follow the safety instructions contained in the manual before operating the machine/unit/equipment. If any content in the manual seems unclear or incomplete, please contact ZKTeco before starting the operation and maintenance of the CMP200.

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.

For further details, please visit our Company's website [www.zkteco.com](http://www.zkteco.com).

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This manual and the information contained therein may include technical, other inaccuracies or typographical errors. ZKTeco periodically changes the information herein which will be incorporated into new additions/amendments to the manual. ZKTeco reserves the right to add, delete, amend or modify the information contained in the manual from time to time in the form of circulars, letters, notes, etc. for better operation and safety of the machine/unit/equipment. The said additions or amendments are meant for improvement /better operations of the machine/unit/equipment and such amendments shall not give any right to claim any compensation or damages under any circumstances.

ZKTeco shall in no way be responsible (i) in case the machine/unit/equipment malfunctions due to any non-compliance of the instructions contained in this manual (ii) in case of operation of the machine/unit/equipment beyond the rate limits (iii) in case of operation of the machine and equipment in conditions different from the prescribed conditions of the manual.

The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on <http://www.zkteco.com>.

If there is any issue related to the product, please contact us.

## **ZKTeco Headquarters**

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To know more about our global branches, visit [www.zkteco.com](http://www.zkteco.com).

## About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof. The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

## About the Manual






This manual introduces the operations of CMP200. All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

## Document Conventions

Conventions used in this manual are listed below: GUI Conventions

For Software	
Convention	Description
<b>Bold font</b>	Used to identify software interface names e.g. <b>OK</b> , <b>Confirm</b> , <b>Cancel</b> .
<b>&gt;</b>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	Description
<b>&lt; &gt;</b>	Button or key names for devices. For example, press <OK>.
<b>[ ]</b>	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.
<b>/</b>	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].

## Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
	The general information which helps in performing the operations faster.
	The information which is significant.
	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

## Product Introduction

The Automatic Barrier Gate CMP200 series is a modern barrier gate technology combined with the practical implementation of automated barrier gate products in the industry. This product's appearance and structure design are adapted to the market, and the industry requirements and the traffic light indication has the humanized experience. As an economical automatic barrier gate device, the user can adjust the telescopic straight boom according to the actual requirement to meet various application scenarios.

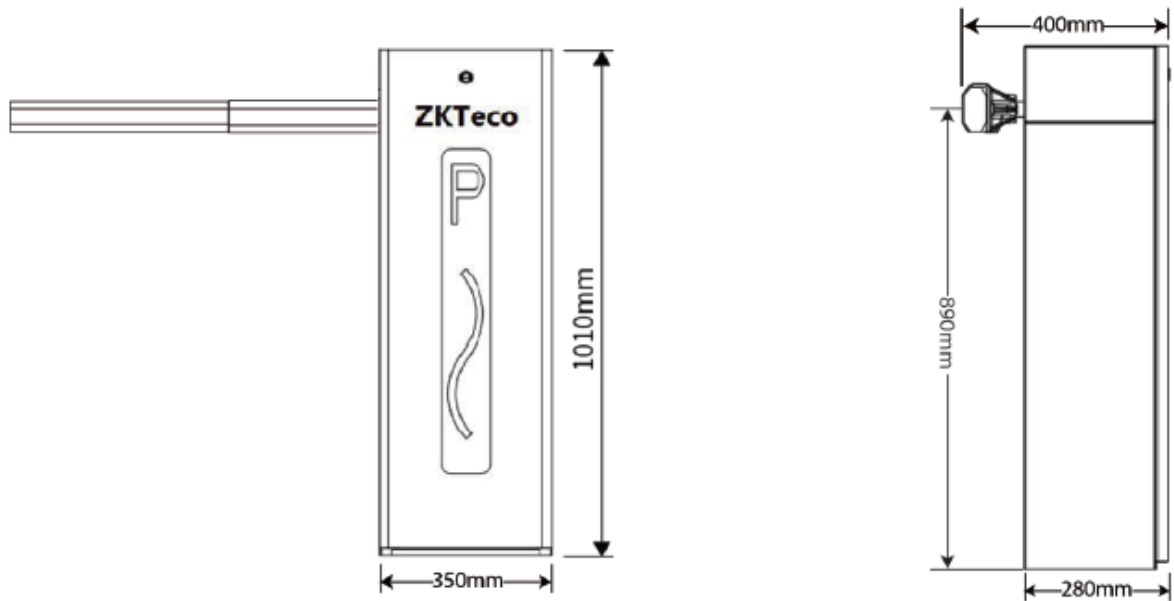
**Note:** The intensivity of the product is 30% "low intensivity", it is suitable for places where traffic flow and people flow are not dense.

## What is in the box

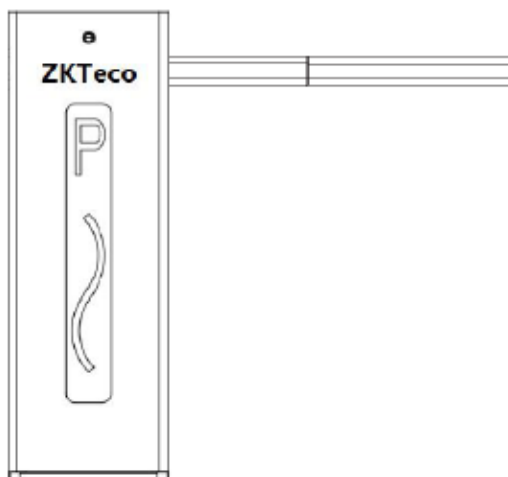
The box comes with;

- The barrier gate\*1
- The boom\*1
- The remote control\*2
- The barrier fixed screw\*4
- The boom fixed plate\*1
- The boom fixed screw\*2
- The key\*2
- The user manual\*1

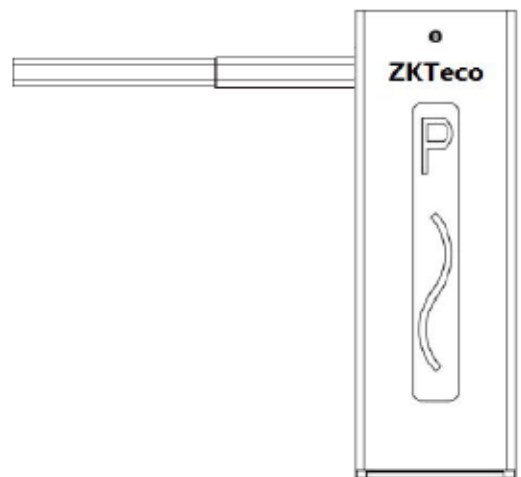
## Appearance and Dimensions



### Left and Right Cabinet View



**L:** The cabinet on the left



**R:** The cabinet on the right

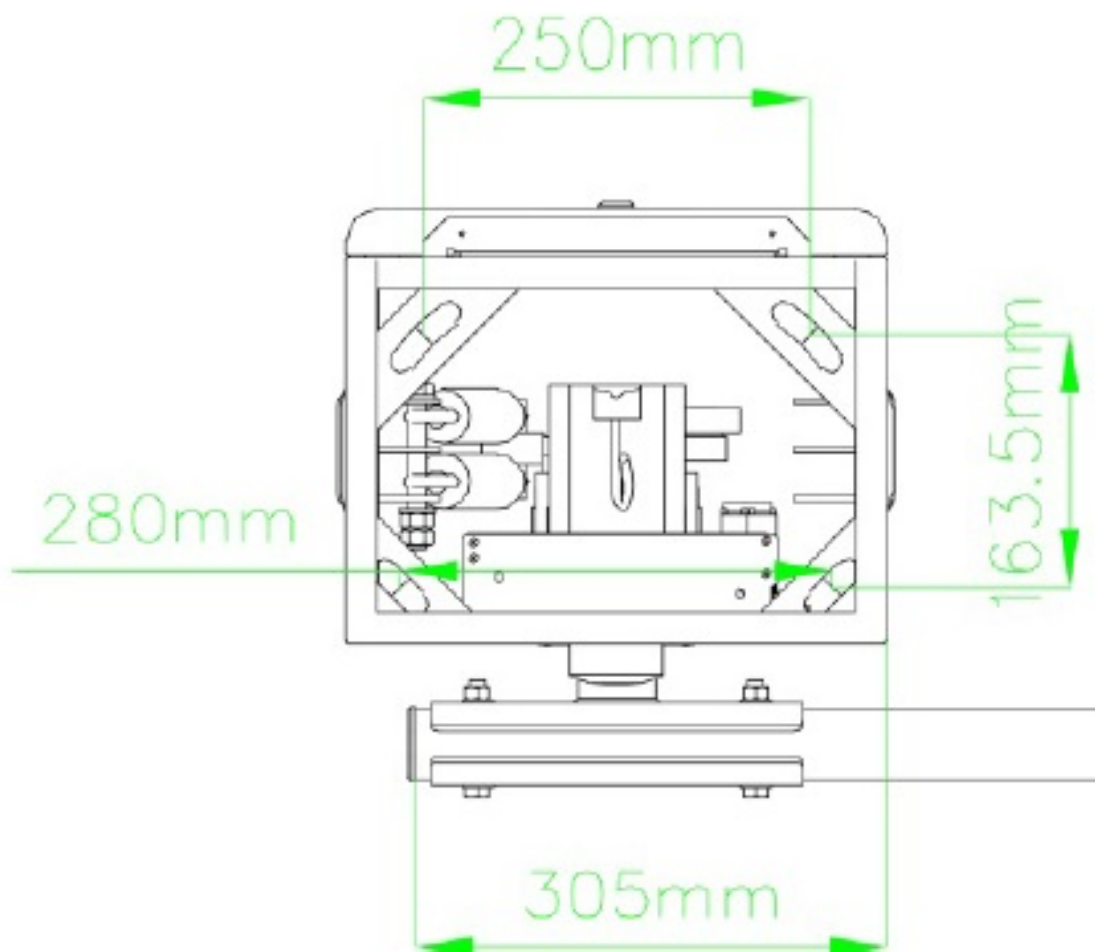
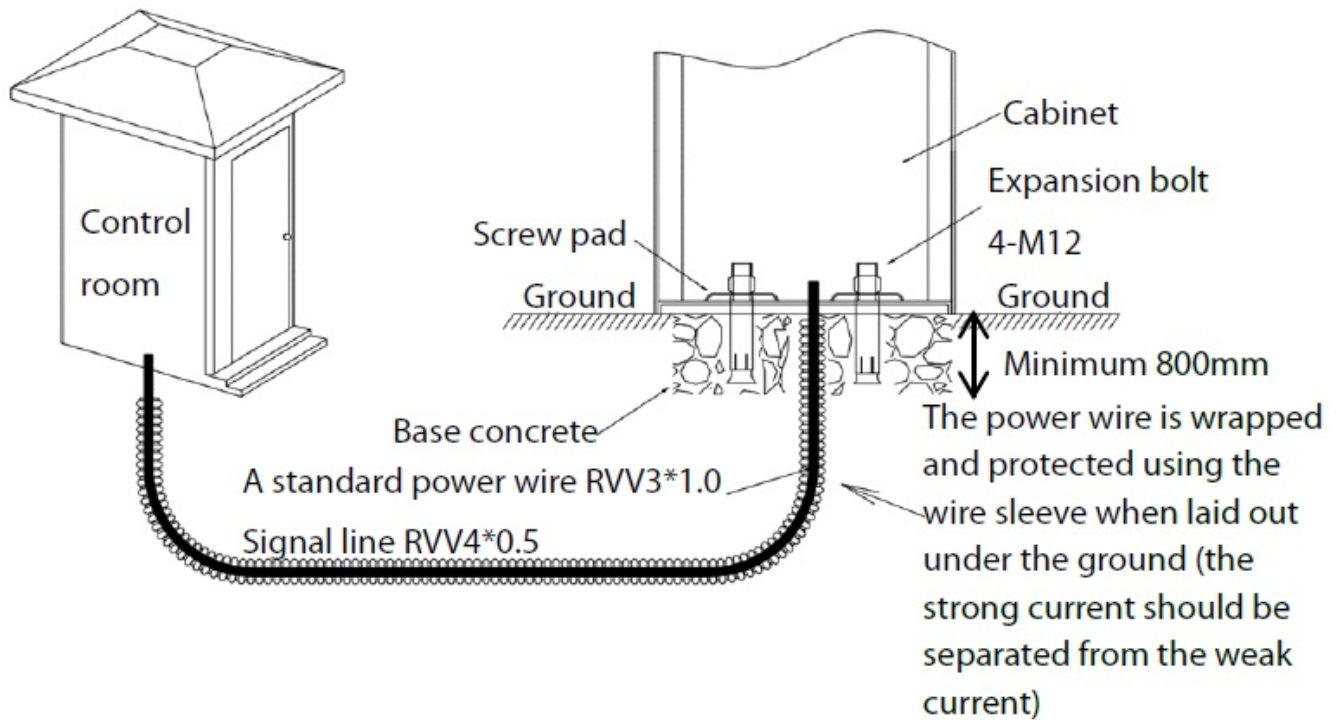
## Product Installation

### Installation P

- Install the parking barrier on level ground. If the ground is not firm and steady, then a cement base is required before installation.
- The boom can be cut, but cannot be increased. Cut the boom to the required length, and then set the spring to balance and achieve the new height. Two plastic nuts that lie in the bottom of the spring is designed for adjusting the new balance.
- Do not change the wire connection inside when the power is on.
- The GND should be connected to the cabinet for secure protection.

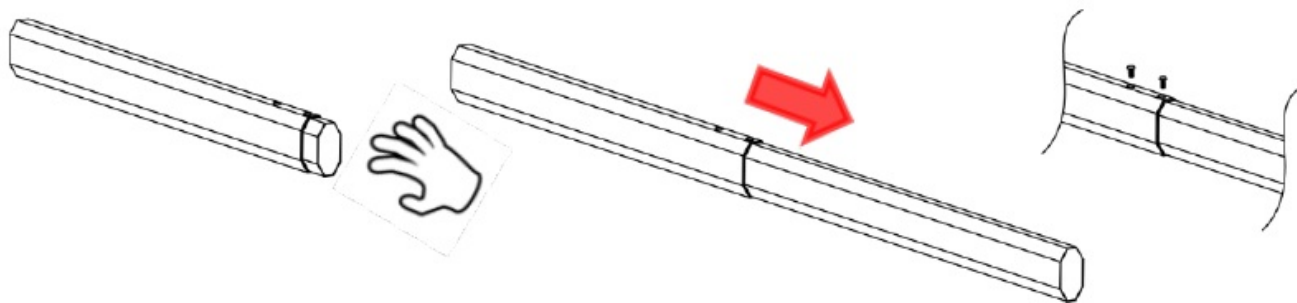
### Cable Embedding

- Prepare  $\phi 25$  protective sleeve and cable in advance.
- Route the cables to be connected through the protective sleeves.
- Use a tool to open the cable board in the ground.



## Boom Installation Procedure

- Pull the barrier arm out from the main boom, and then fasten it with 2 screws as shown in Figure 1.



- Figure 1 Connect the main boom with vice together by 2 screws. Install the boom to the chassis (the frame), as shown in Figure 2.

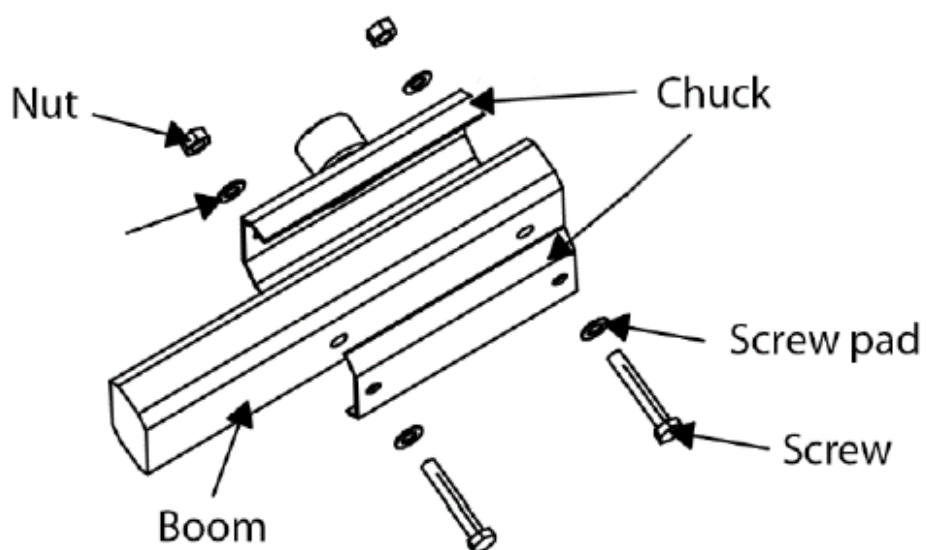


Figure 2 Installing the Boom to the Chassis

## Technical Parameters



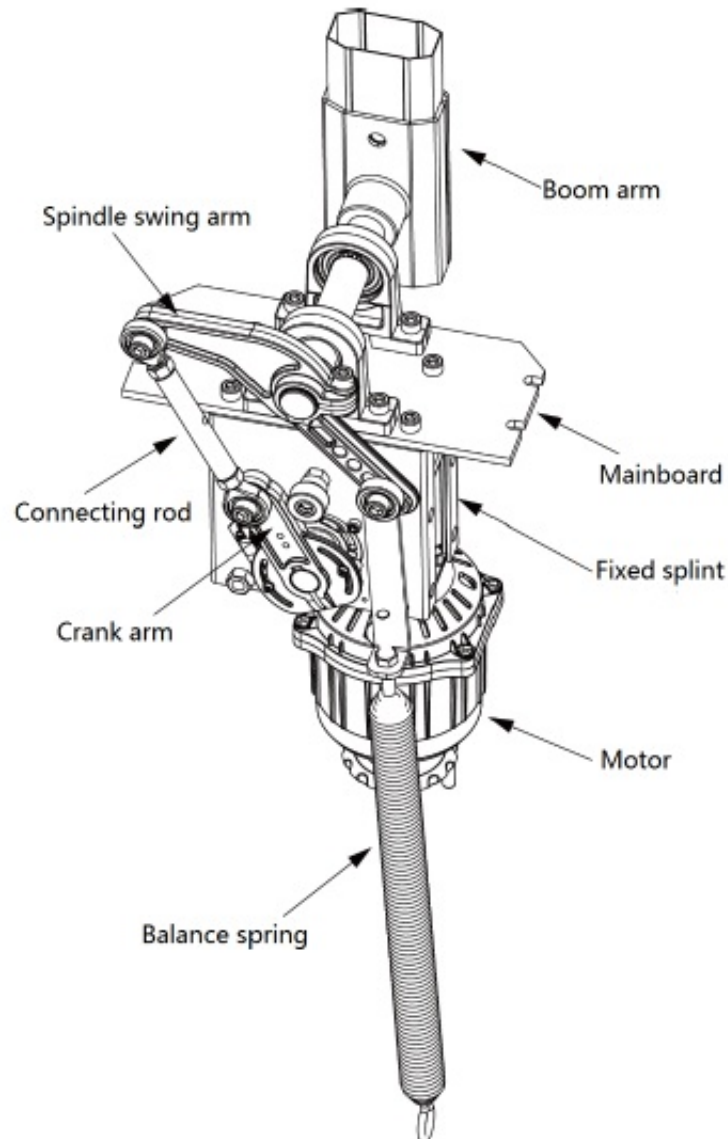
<b>Power adaptability</b>	<b>Input voltage AC 220V/110V±20%, 50/60Hz</b>
Rated power	100W
Max power	120W
Remote control distance	Open field≤30m
Remote control frequency	430MHZ, Learning code
Chassis material	Cold gadolinium steel plate
Boom material	Aluminum
Working temperature	-25°C~+75°C
Working humidity	<90%RH (no condensation)
Protection grade	IP54
Shell size (W*D*H)	1010*350*280 (mm)
Package size (W*D*H)	1100*375*430 (mm)
Chassis net weight	45KG
Chassis gross weight	47KG
Boom type (The mainboard is the same)	Telescopic straight boom, boom length≤4.5m, red and white color, the rise/fall speed is 3s
	Telescopic straight boom, boom length: 4.5m~6m, red and white color, the rise/fall speed is 6s

## Functions

- The opening and closing angles are  $90^{\circ}\pm 2^{\circ}$ .
- Up, Down and Stop operations interfaced with standard switch input.
- Anti-smash function: Supports loop detector, infrared detector, and radar functions.
- Controller timeout protection: When the boom operation is abnormal and exceeds the rise and fall time, the boom will stop the operation automatically.
- The barrier gate can be controlled by wireless remote control and wired control buttons to meet the needs of different field applications.

- It supports traffic lights with AC voltage and DC voltage of 5V or 12V.
- Mainboard built-in fuse, secure from overvoltage.
- Supports the connection of LPR, UHF reader controller, and other devices to recognize and control the automatic door opening.

## Movement Transmission Structure

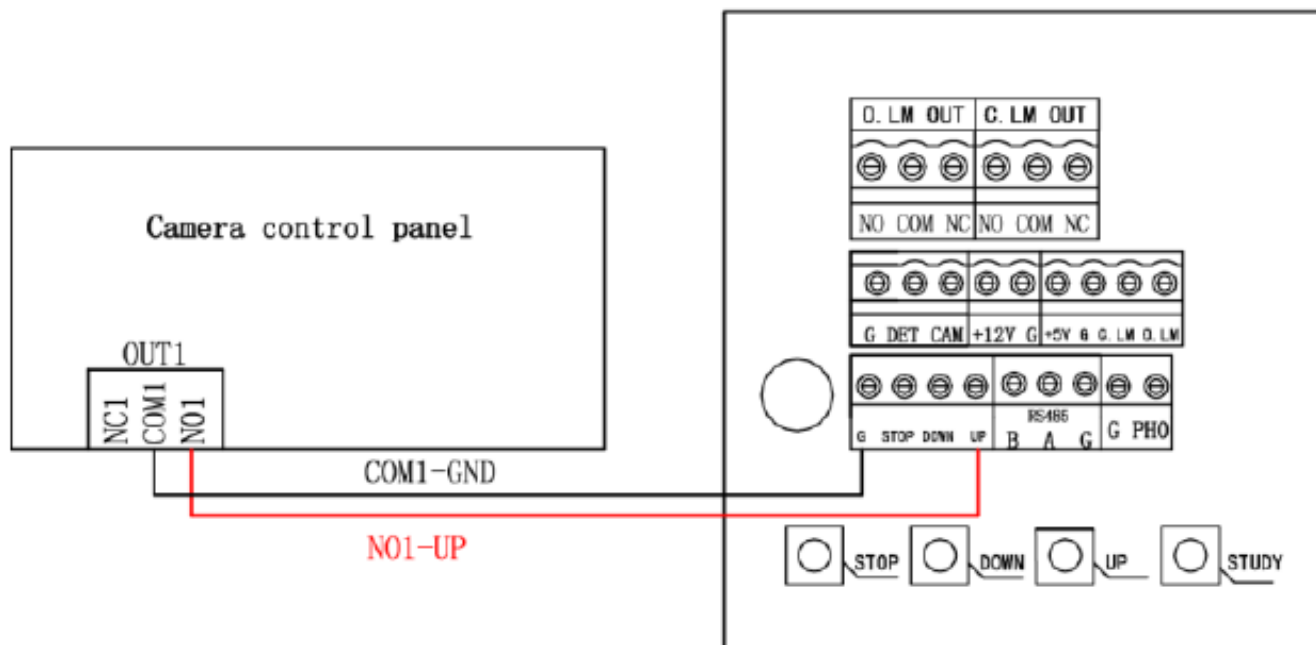


## Control Board Wiring Installation

- Remove the wiring cover of the barrier gate main controller.
- Refer to the wiring diagram of the barrier gate controller and connect the lines one by one firmly. (Note: Power must be disconnected before installation or maintenance.)
- After checking and confirming reliable wiring, install the wiring cover back.
- Install the Desktop Remote Control: Place the Desktop Remote Control on the table in the guard room or attach it to the wall and plug-in the power.

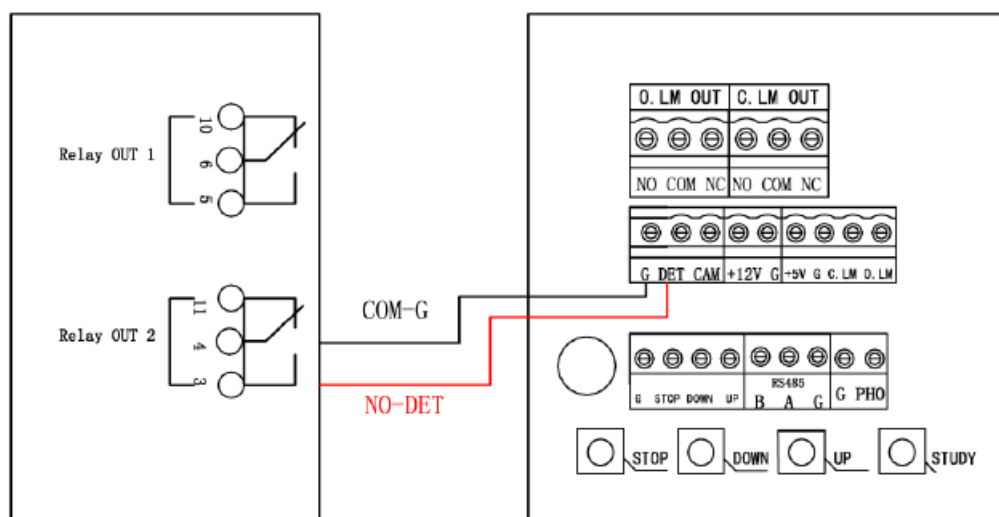
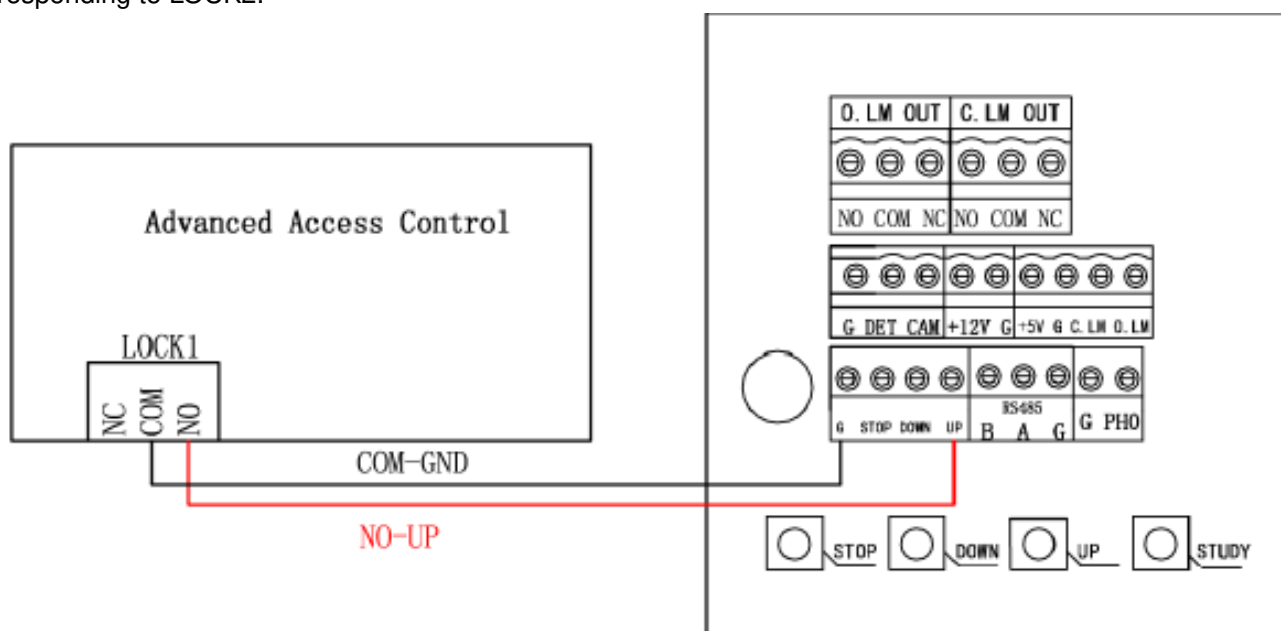
The wiring diagram of the controller is as follows:



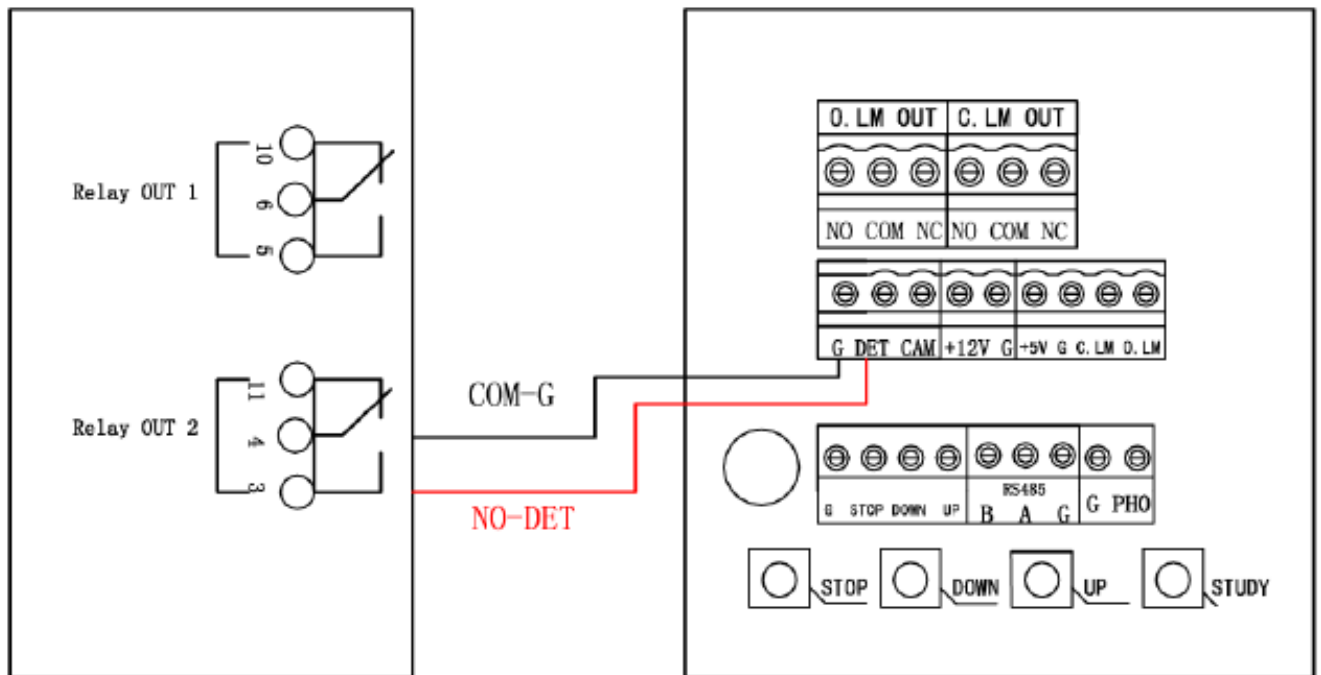


### Connection with the UHF controller.

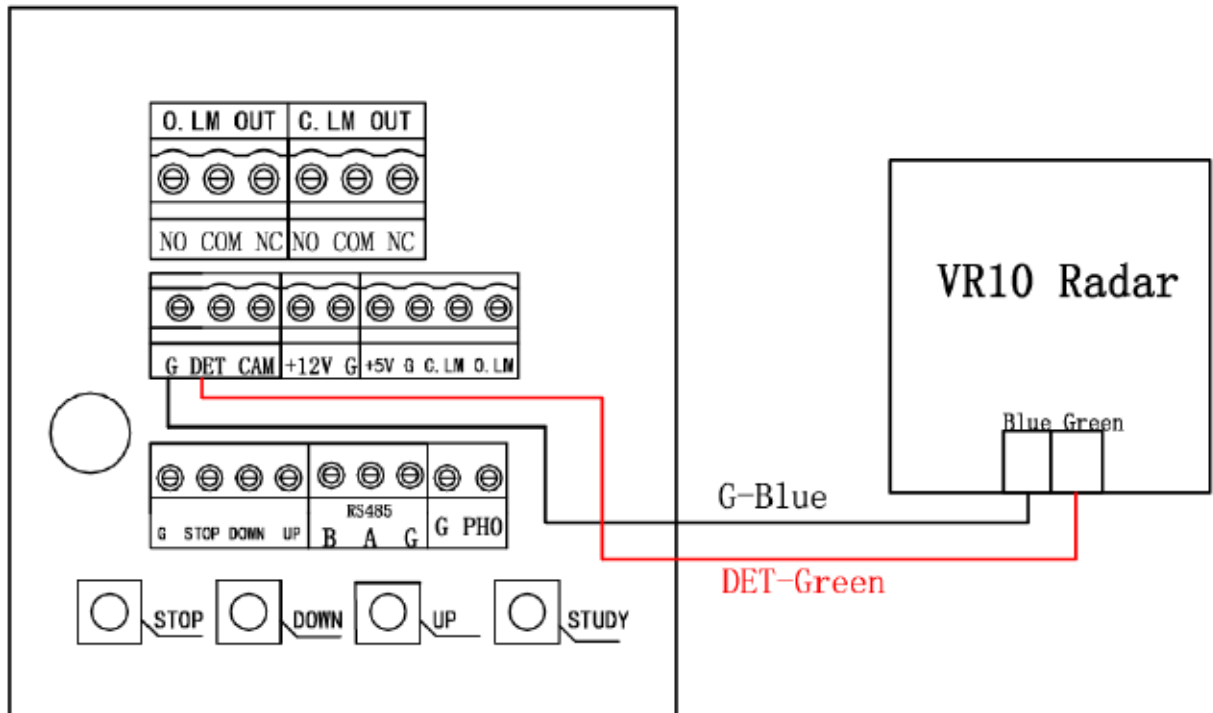
**Note:** The Reader1 and 2 of the inbio260 controller are corresponding to LOCK1, Reader3, and 4 are corresponding to LOCK2.



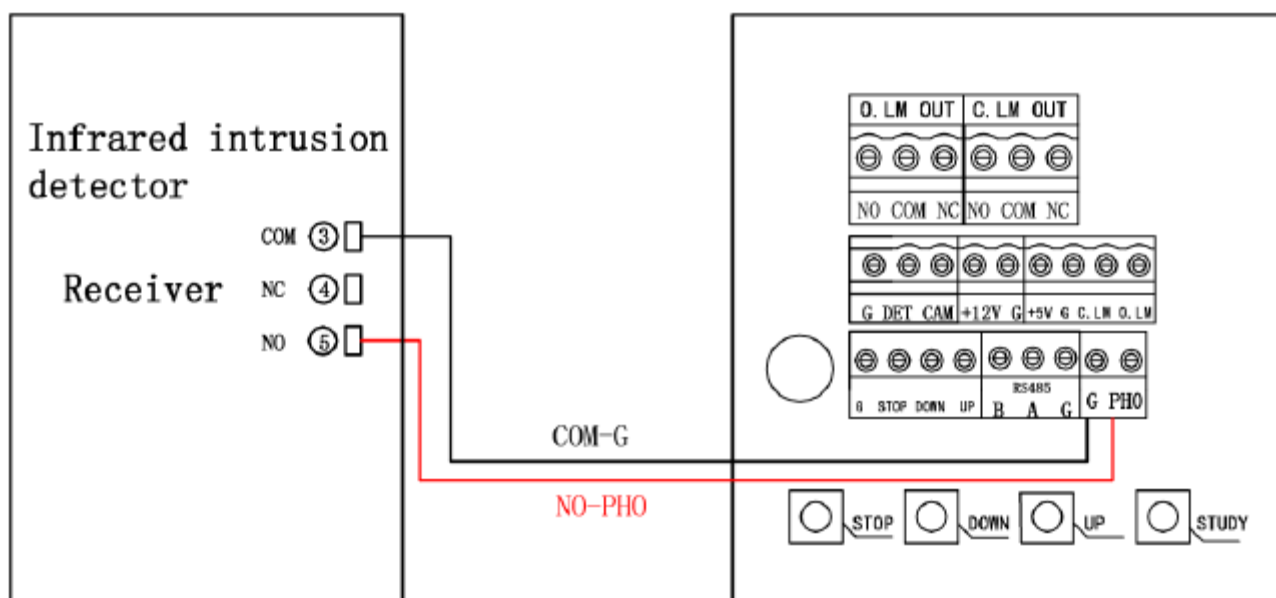
- Connection with the loop detector.



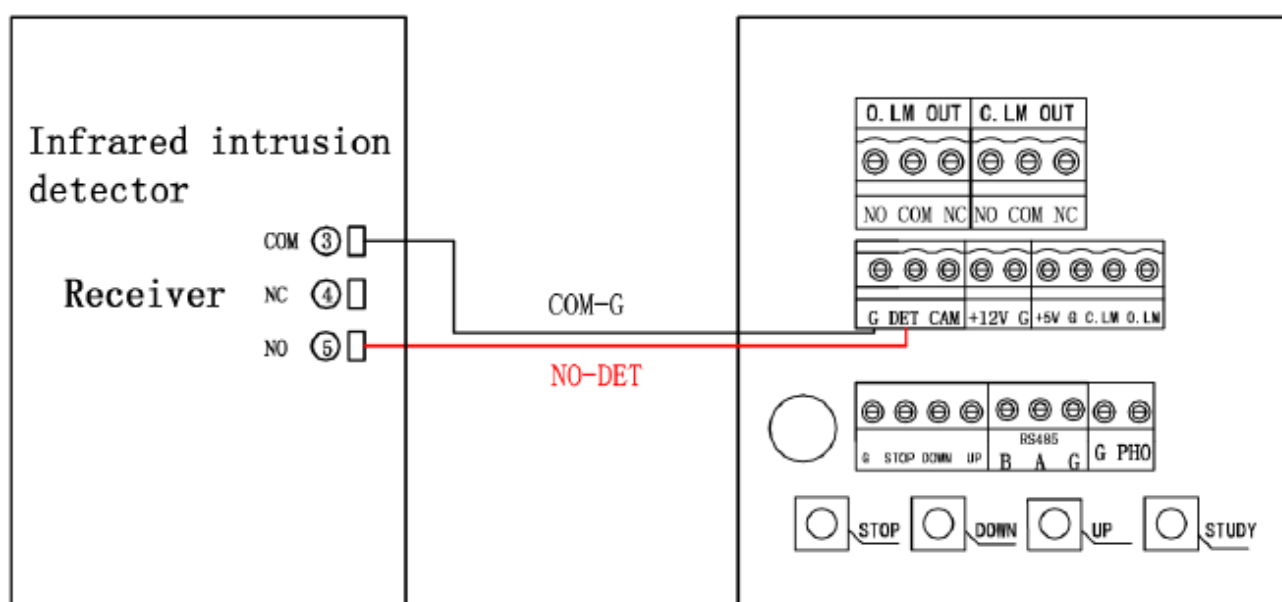
- Connection with VR10 radar



- Connection with the infrared detector (Only Anti-smash function)



- (Anti-smash and auto closing function):

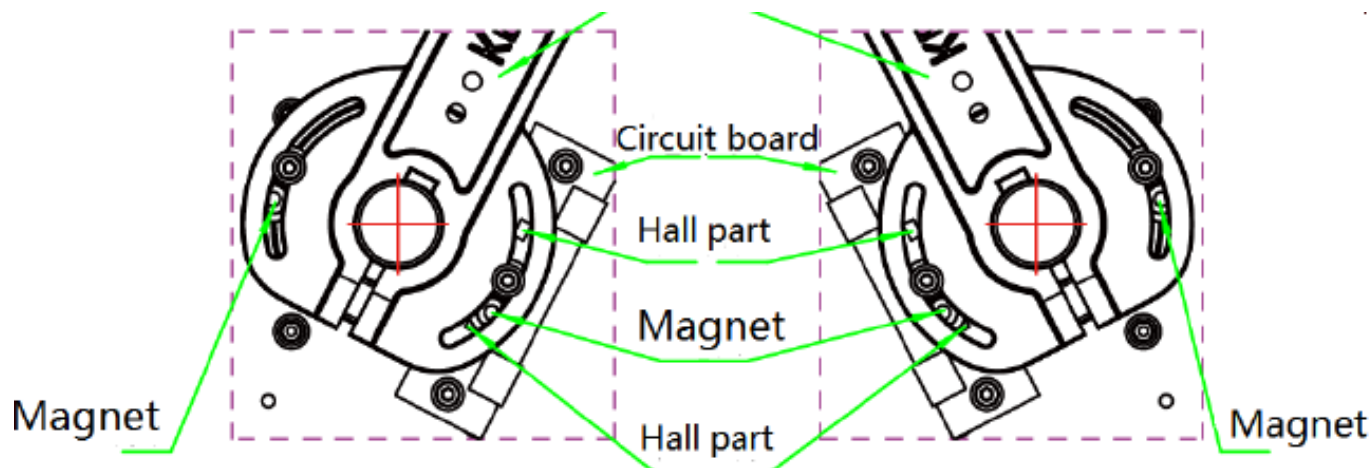


## Commissioning Instructions

1. Check all the connections and make sure the connections are correct before connecting the power.
2. Please use the remote control or press the switch button on the mainboard to test whether the machine is running normally.
3. Warning: Be sure to install the corresponding length of the boom before the power-on test. To avoid accidents, no one is allowed to stand under the boom during testing.
4. In the process of boom falling, short connect the infrared detector and public interface, so that the falling boom will start rising immediately, and will stop automatically after the rising limit. This is mimic the effect of infrared detectors.
5. In the process of boom falling, short connect the loop detector and public interface, the falling boom is transferred to rising immediately, which will fall automatically after the rising limit and stop automatically after the falling limit. In the process of boom rising, short connect the loop detector and public interface, the boom will fall automatically after the rising limit and stop automatically after the falling limit. In the open state, short connect the loop detector and public interface; the boom will automatically fall to the limit and stop. This is

imitate the effect of the loop detector.

6. Barrier gate Hall limit switch adjustment:



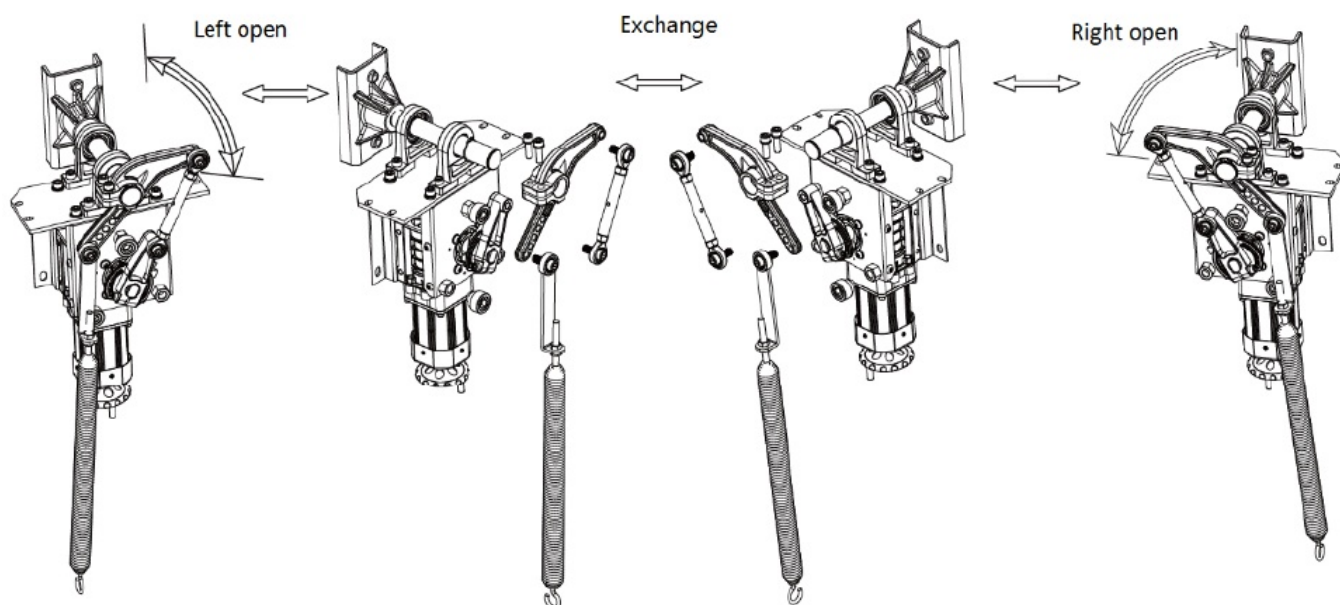
**CMP200 Barrier gate Hall limit switch adjustment:**

1. Manually shake the motor, turn the master arm to two terminal positions respectively, and then move the magnet to the Hall part. The indicator light on the circuit board shall prevail and tighten the magnet.
2. If switch left and right, please reinstall the circuit board on the other side and insert the wiring into the other end. Then adjust the magnet according to the above steps.

Left and right movement interchange method:

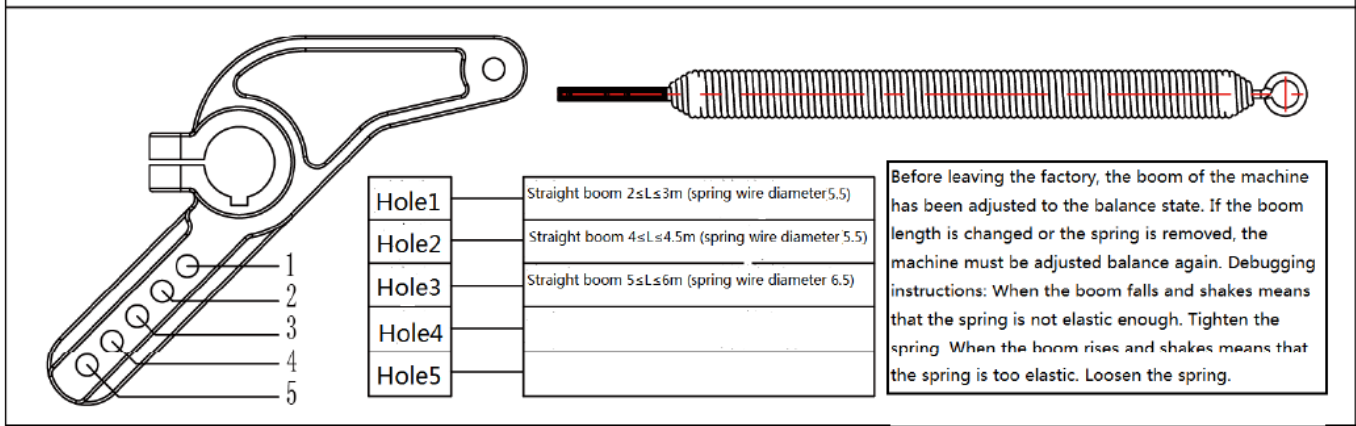
CMP200 Barrier gate left and right movement interchange:

Please release the spring and remove the boom before replacing!



Barrier gate spring and the corresponding boom length type:

## CMP200 Barrier gate spring hole selection:



### Study/Delete Remote Control Code

#### Study code:

- In the Stop state, press the “Study” button on the main controller until the REMOTE indicator is ON and then release it.
- Then press any button on the remote control, the REMOTE indicator turns OFF. In this process, the code of studying will be completed.

#### Delete code:

- To process the Code deletion, in the STOP state, press the Study button on the main controller until the REMOTE indicator is ON, continue to press the ‘Study’ button, and hold on until the REMOTE indicator is OFF.
- **Note:** All the codes will be deleted in this process).

**Note:** One barrier can only study to 20 remote controls. The matching remote control will be studied already, and there is no need to read again.

### Troubleshooting

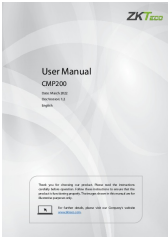


No.	Troubles	Fault Cause	Solution
1	The POWER indicator is not on, and the button is not responding.	<ol style="list-style-type: none"> <li>1. The power supply is not connected.</li> <li>2. The fuse blew off.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the power.</li> <li>2. Replace the fuse.</li> </ol>
2	The POWER indicator is on, no response by remote control.	<ol style="list-style-type: none"> <li>1. The remote control code is wrong.</li> <li>2. Poor receiving module.</li> <li>3. The same frequency interference exists.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recode.</li> <li>2. Replace the receiving module.</li> <li>3. Change to other frequencies.</li> </ol>
3	The POWER indicator is on, the boom UP and DOWN indicator is normal, the motor is not running.	<ol style="list-style-type: none"> <li>1. The motor wire is open or incorrectly connected.</li> <li>2. The motor is stuck.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the motor wire.</li> <li>2. Manual release motor.</li> </ol>
4	Unable to rise or fall boom to limit.	<ol style="list-style-type: none"> <li>1. The limit line is misconnected.</li> <li>2. Limit switch is broken.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect the rising and falling limit line.</li> <li>2. Replace limit switch.</li> </ol>
5	The remote control handle is not responding.	<ol style="list-style-type: none"> <li>1. The battery of the handle is low.</li> <li>2. Handle broken.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Replace the handle.</li> </ol>



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Documents / Resources

	<p><a href="#">ZKTeco CMP200 Automatic Barrier Gate</a> [pdf] User Manual</p> <p>CMP200 Automatic Barrier Gate, CMP200, Automatic Barrier Gate, Barrier Gate, Gate</p>
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References

- [ZKTeco | Home Page](#)
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