

# PB3000

# Installation Guide

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## Chapter 1 Cable Embedding

- 1) Prepare  $\phi 25$  protective sleeve and cable in advance.
- 2) Route cables to be connected through protective sleeves.
- 3) Use a tool to open a cable tray on the ground, see figure 1.

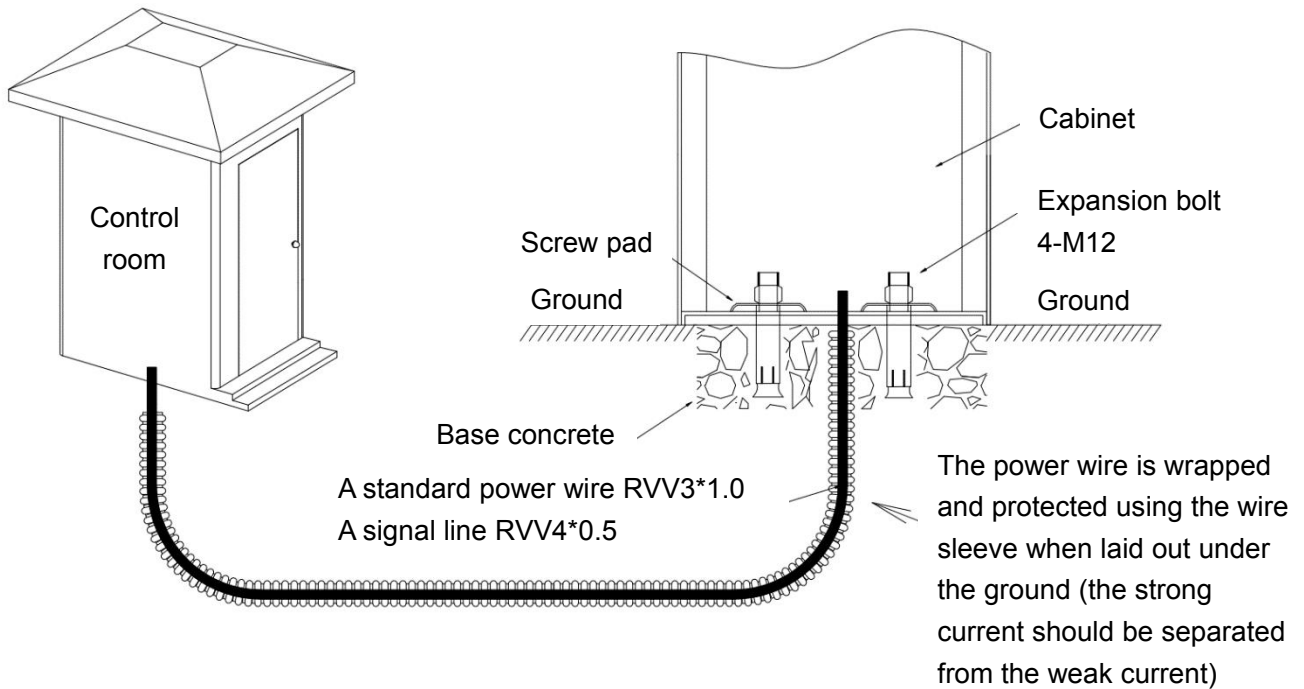


Figure 1 Cable embedding

## Chapter 2 Cabinet Installation

- 1) Use Bolt Holes Dimensioning to mark the installation position of the cabinet.
- 2) Drive four expansion bolts into the Bolt Holes Dimensioning, as shown in figure 2-1.
- 3) Open the access door and install the parking barrier.
- 4) Install screw pads and use a wrench to tighten nuts, as shown in figure 2-2.
- 5) Close the access door.

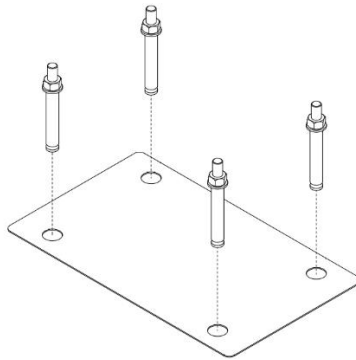


Figure 2-1

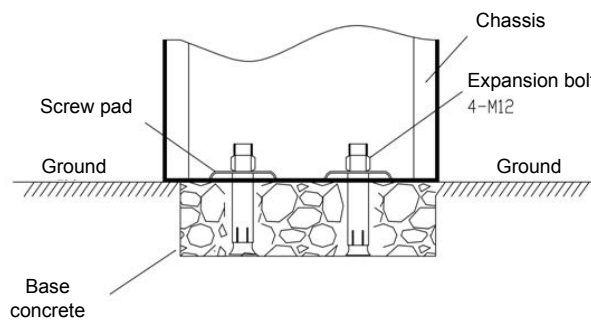


Figure 2-2

## Chapter 3 Boom Installation

- 1) Take out the booms.
- 2) Add glue onto the connection part of the boom, fix the two parts together, as shown in Figure 3-1.
- 3) Remove the protection cover on the connection part, as shown in Figure 3-2.
- 4) Adjust the length of the expansion boom (only for 4M and 5M device), and fasten the screw, as shown in Figure 3-3.
- 5) Install the decorative cap on the expansion boom, as shown in Figure 3-4.
- 6) Install the anti-crash strip, as shown in Figure 3-5.
- 7) Put the boom on the ground for 30 minutes, let the glue be solid, then mount it on the cabinet, as shown in Figure 3-6.

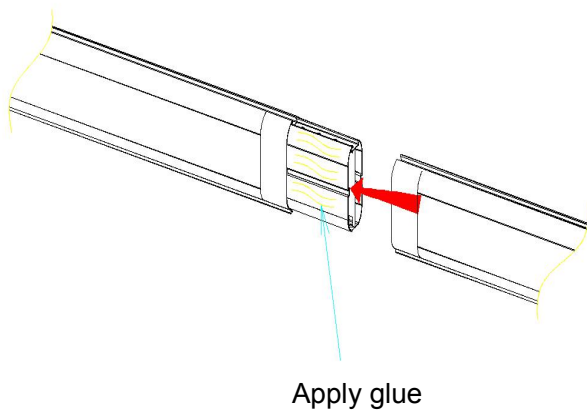


Figure 3-1

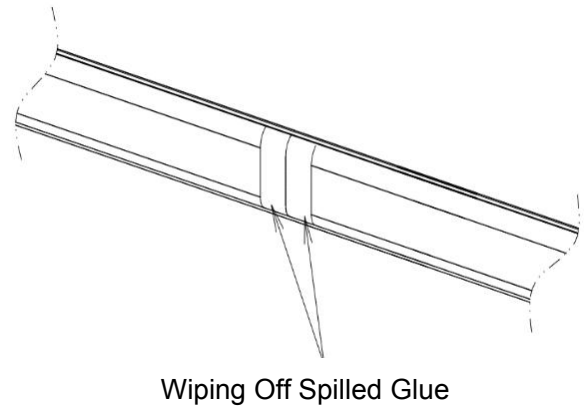


Figure 3-2

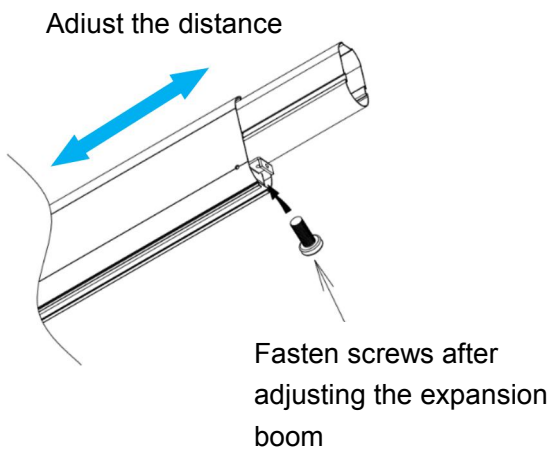


Figure 3-3

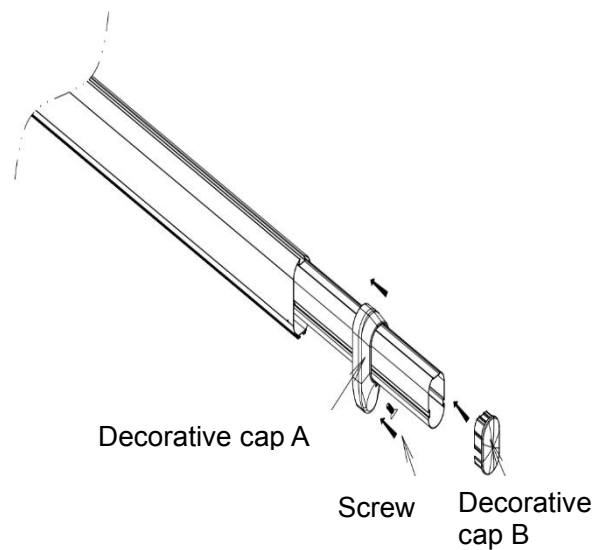


Figure 3-4

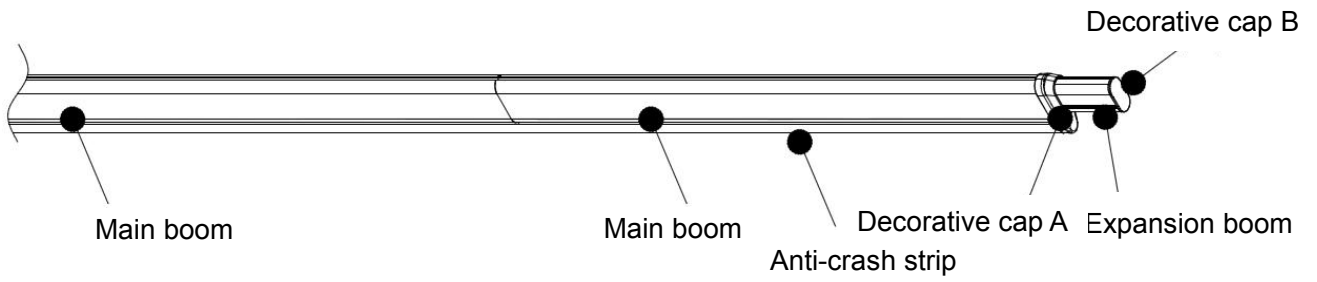


Figure 3-5 Appearance of the Straight Boom

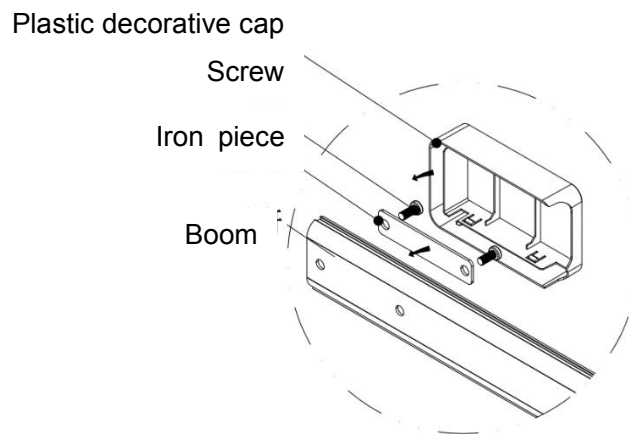
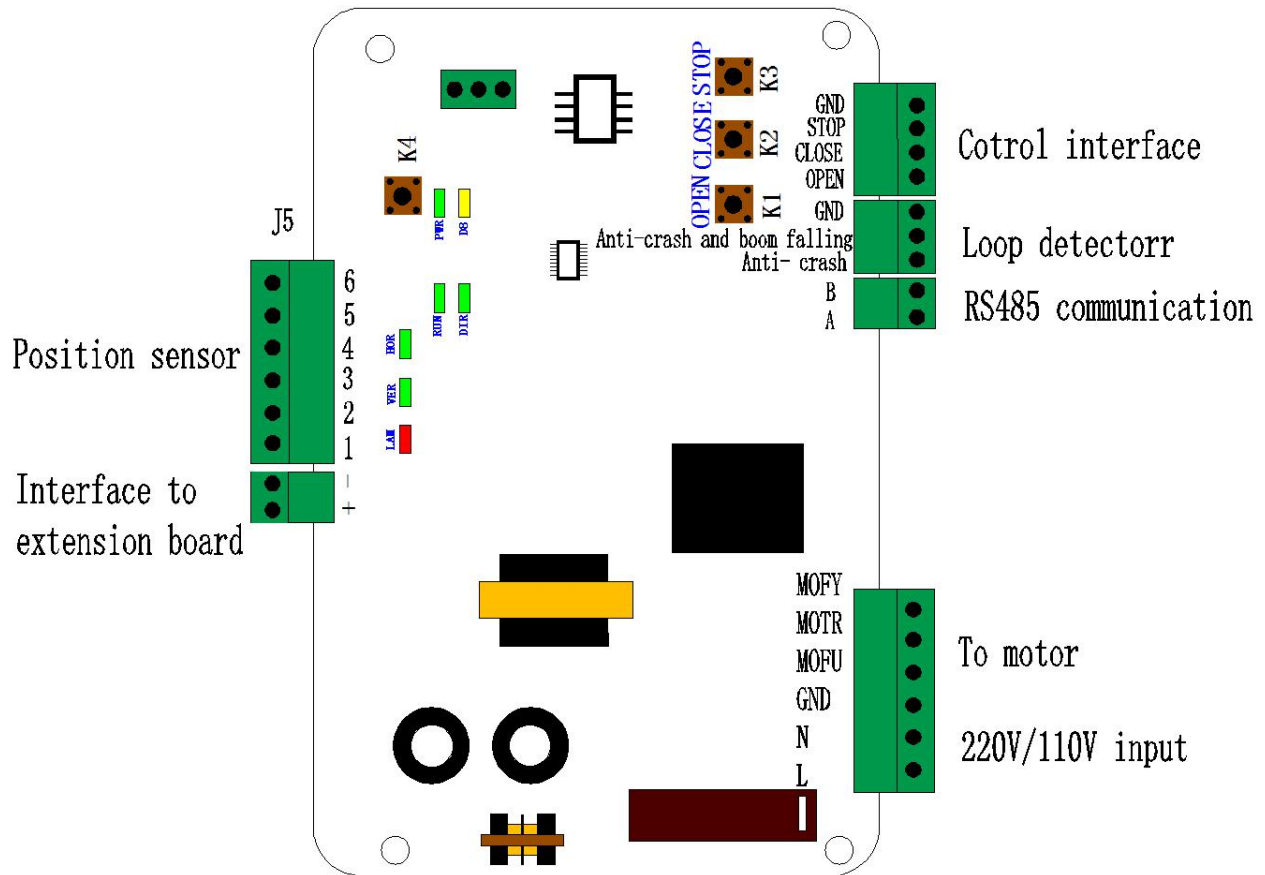


Figure 3-6 Installing the Boom to the Chassis

## Chapter 4 Wiring Diagram

### 1) Interface of the Main Control Board



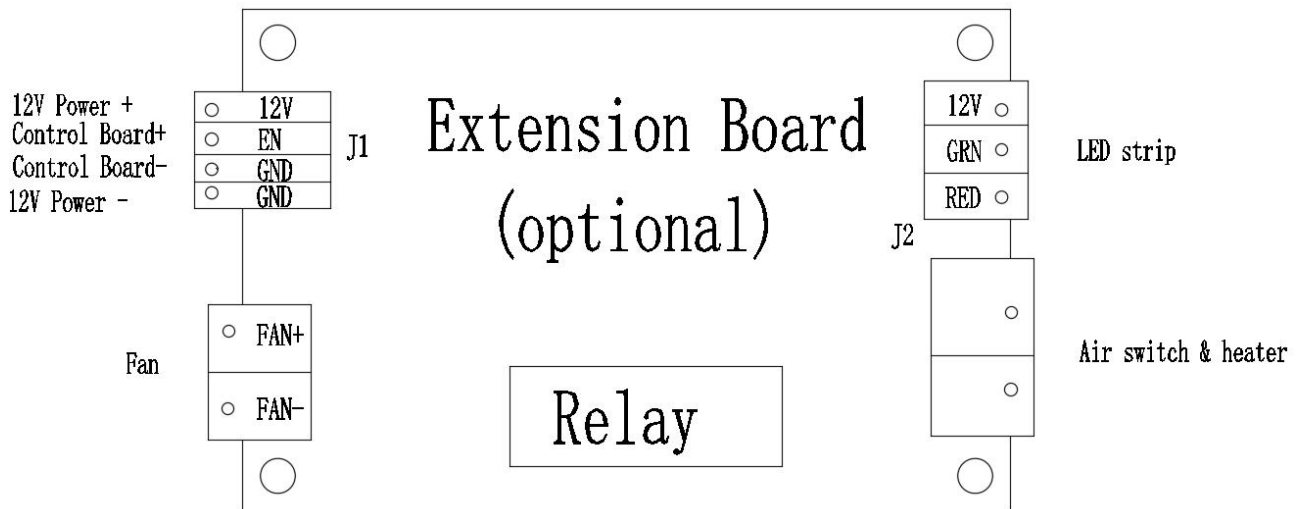
#### Delete All Transmitter

Press K4 setting button until D8 yellow light flashes. Hold on K4, press stop button on control board until D9 red light flashes one time. All the registered transmitters will be deleted after successful operation.

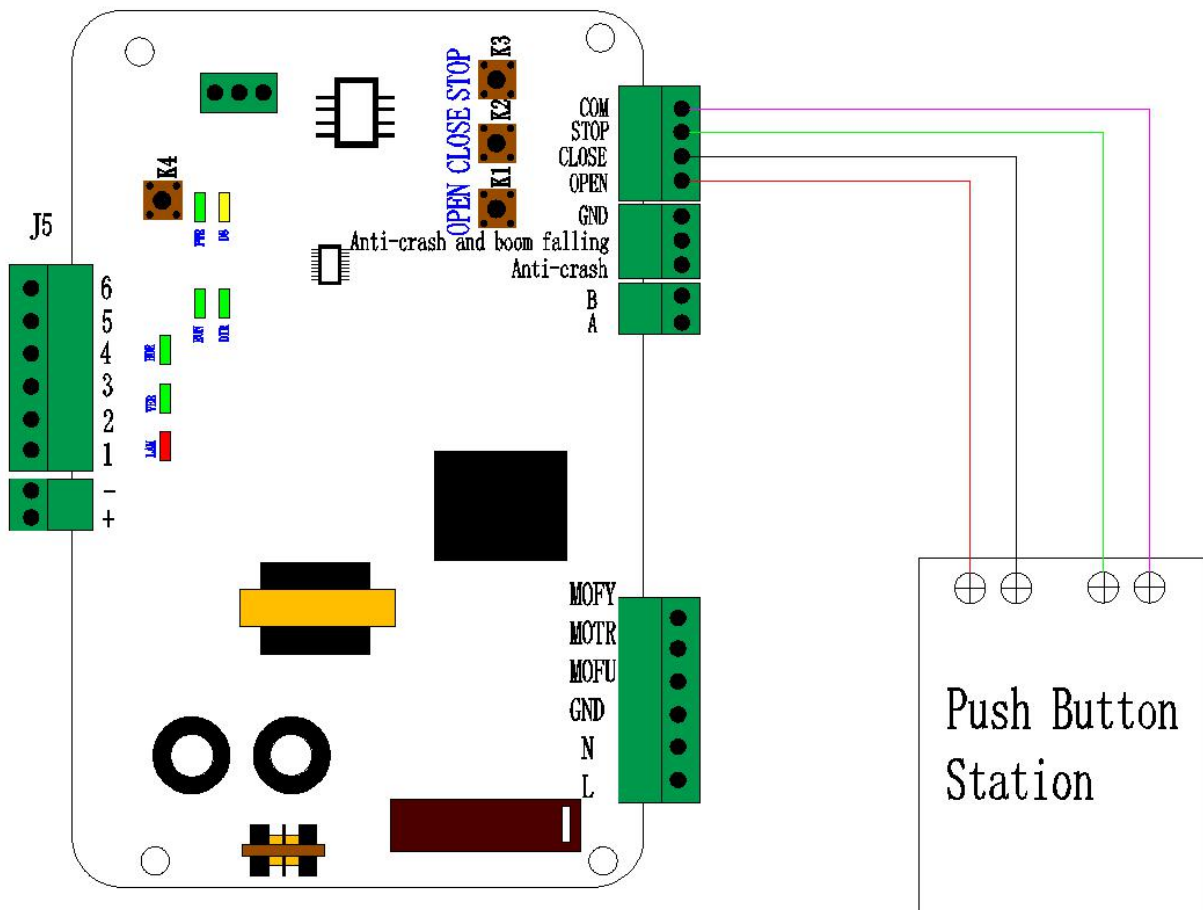
#### Register the transmitter

Press K4 setting button until D8 yellow light flashes. Hold on K4, press any button on transmitter until D9 red light flash one time. Maximum 7 different code transmitters can be registered.

## 2) Interface of the Extension board



## 3) Wiring Diagram of the Push Button Station





## Chapter 5 Troubleshoot

- 1) If the boom fails to fall into a level position, adjust position A; if the boom fails to be lifted upright, adjust position B. See Figure 5-1.
- 2) If the boom shakes during falling or lifting, adjust position C. The shaking that occurs during lifting is caused by the overlarge spring force. In this case, loosen the screws. If the boom shakes during falling, tighten the screws. See Figure 5-2.
- 3) Use the motor handle to lift the boom in the case of a power failure, See Figure 5-3.

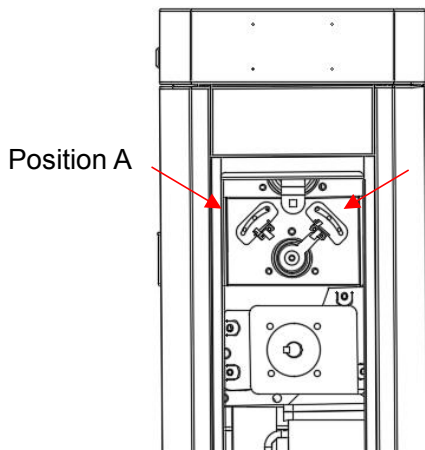


Figure 5-1

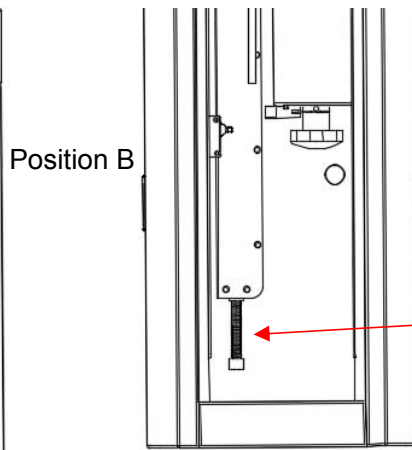


Figure 5-2

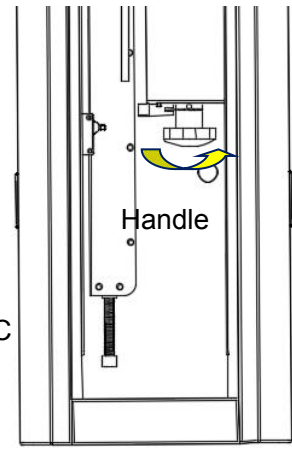


Figure 5-3

## Chapter 6 Optional Functions

### 1) Loop Detector

Loop detector in the parking system consist of loop, loop detector and control board. The loop is installed under the ground. When loop detect a vehicle, the boom will not fall down, after the vehicle pass, the boom will automatically fall down. The wiring diagram is shown in the figure 6-1.

Civil Installation: Use a tool to open a rectangular cable tray on the ground. Length is 2m and width is 1m. And then embed 3 turns of wire.

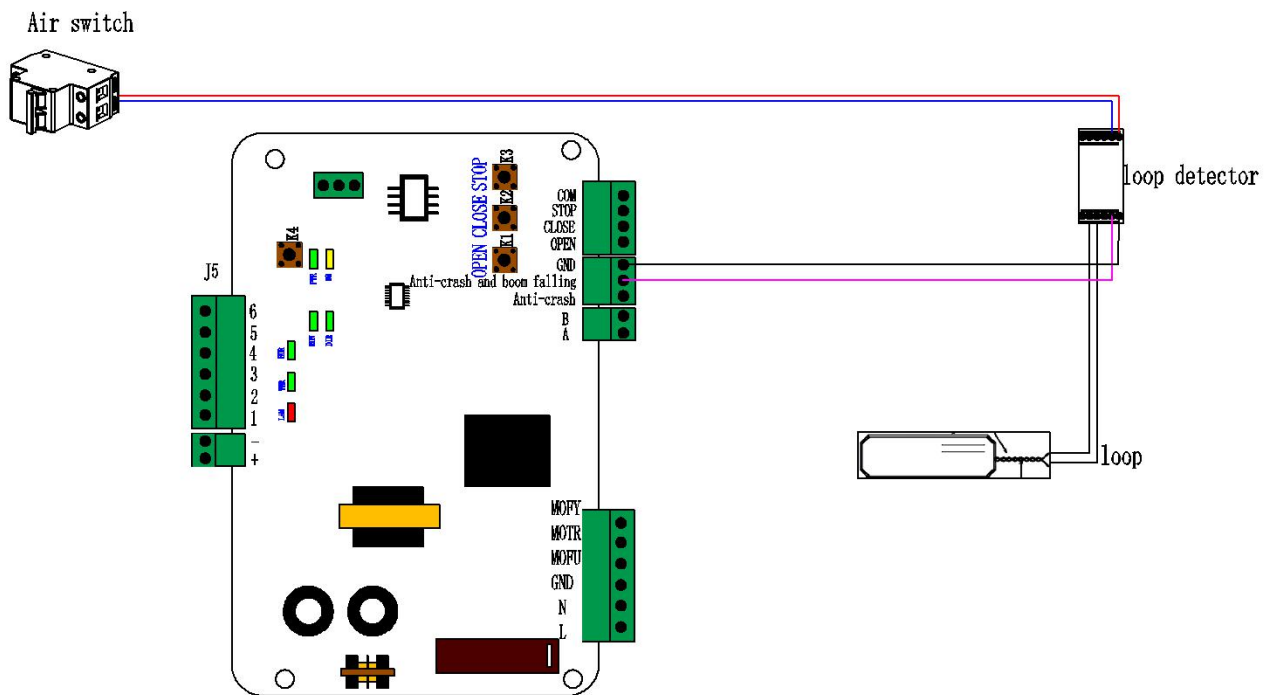


Figure 6-1

### 2) Boom Illuminator System

Boom Illuminator System consist of 12V power supply, extension board and LED strip. The length of LED strip can be 3m, 4m and 5M to match booms with different size. The installation is simple. Just torn the reflective sticker and paste the LED strip on the boom, see figure 6-2A. The wiring diagram is shown in the figure 6-2B.

Paste the LED strip on the

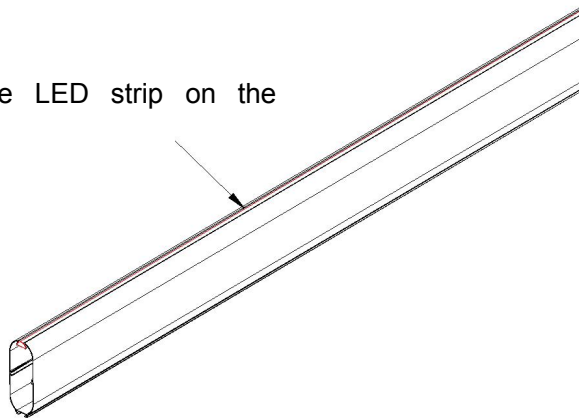


Figure 6-2A

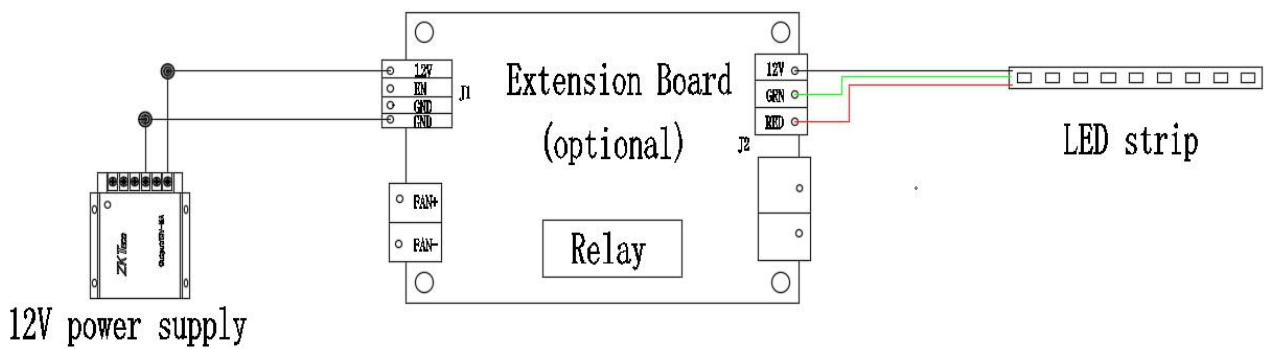


Figure 6-2B

### 3) Photo Cell

When photo cell detect a vehicle, the boom will not fall down, after the vehicle pass, the boom will automatically fall down. The structure of photo cell is shown in the 6-3A and the wiring diagram is shown in the figure 6-3B.

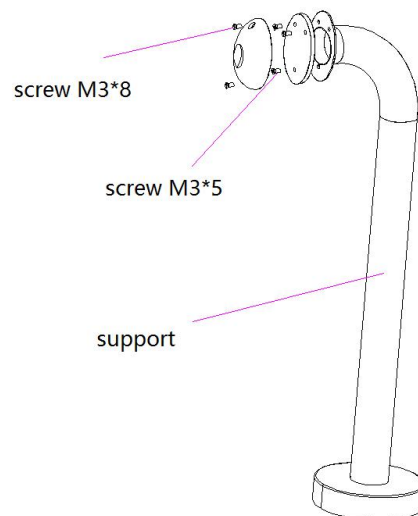


Figure 6-3A

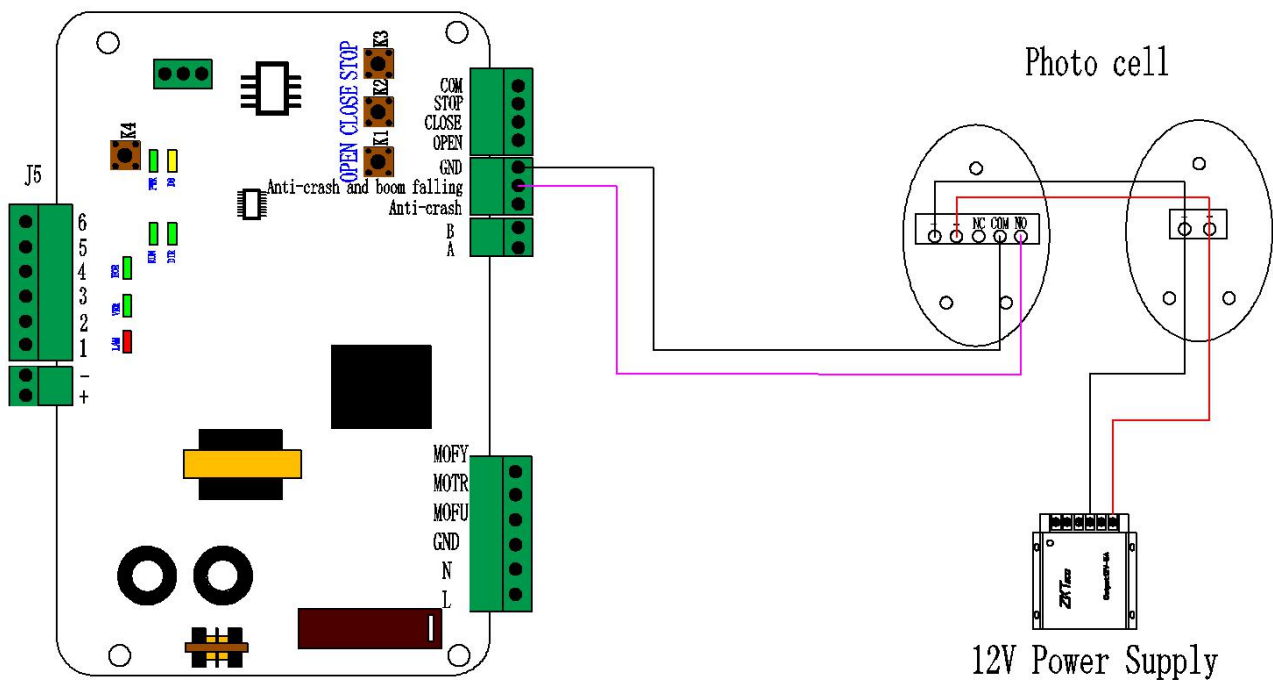


Figure 6-3B

#### 4) Heater System

The heater system consists of a 12V power supply, an extension board and a heater. The wiring diagram is shown in the figure 6-4.

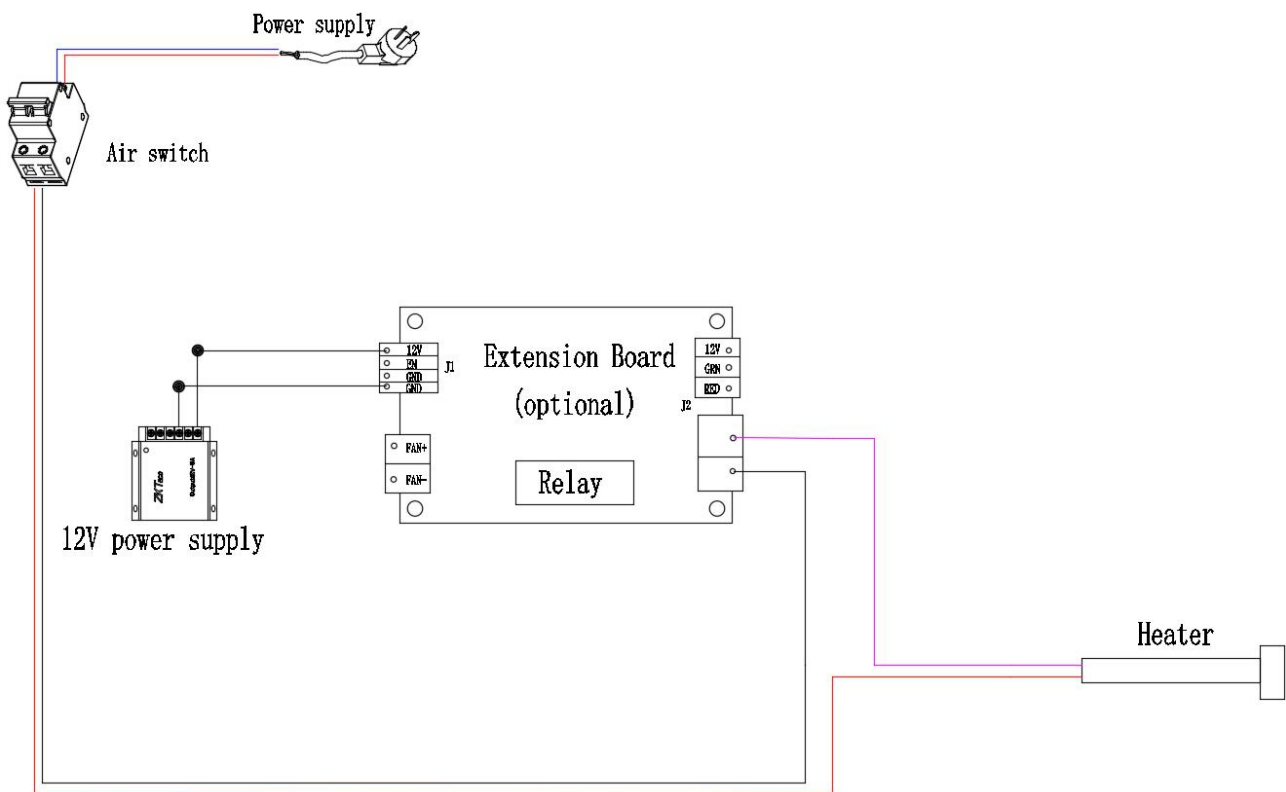


Figure 6-4

## 5) Cooling System

The cooling system consists of a 12 V power supply, extension board and a fan. The installation of fan is shown in the 6-5A and the wiring diagram is shown in the figure 6-5B.

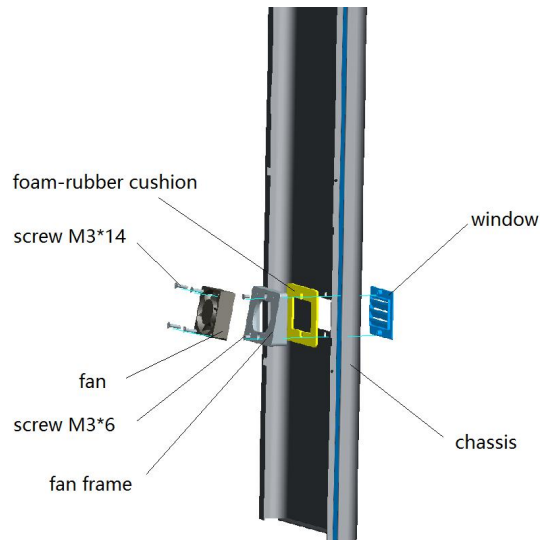


Figure 6-5A

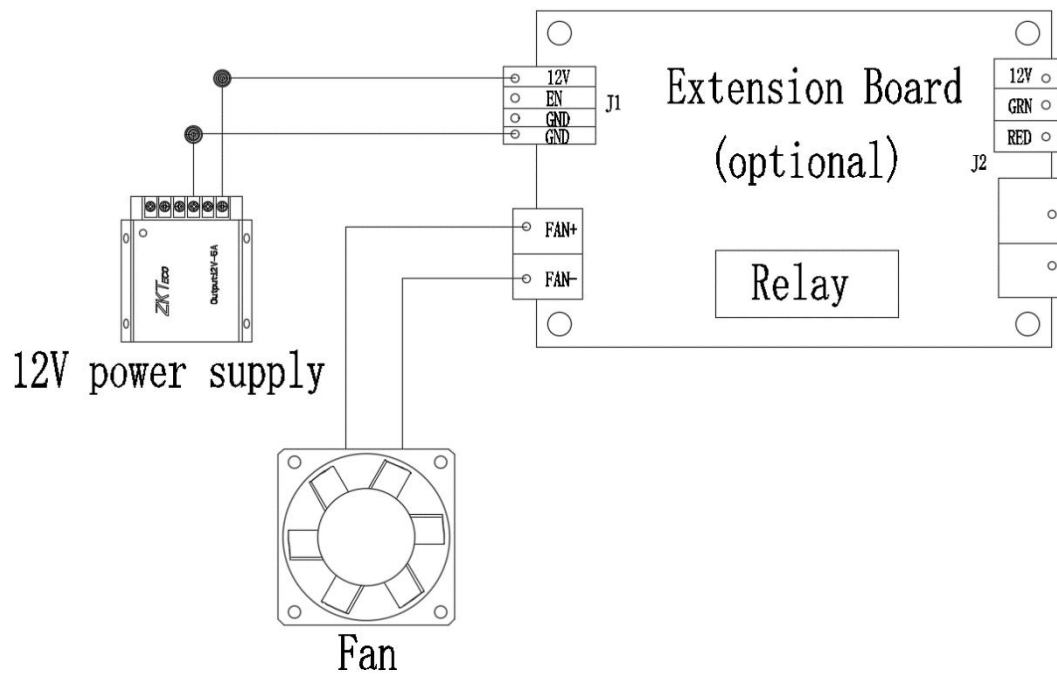


Figure 6-5B