

# Installation Guide

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Swing Barrier Turnstile

**Applicable Model(s):** SBT2000S (2023)

Version: 1.0

## Revision History

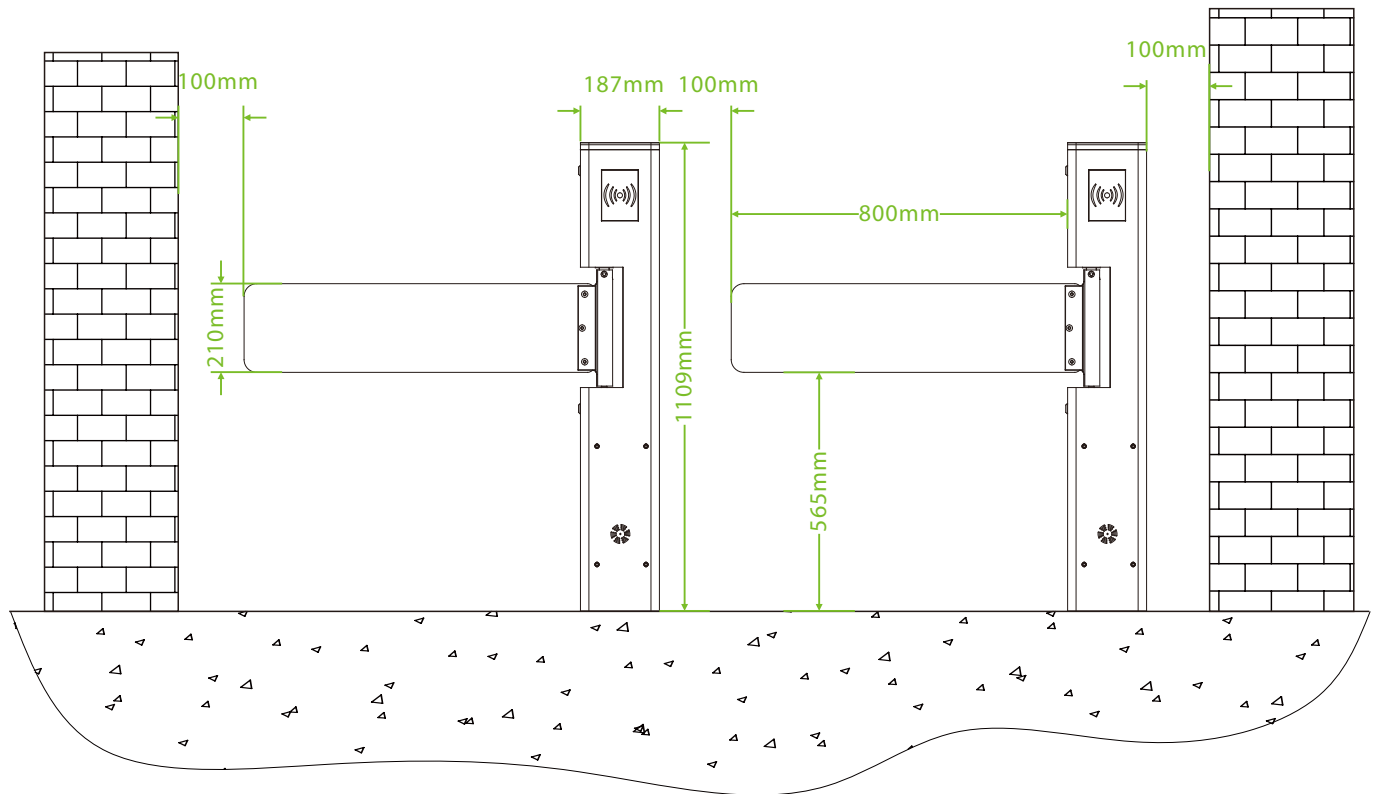
Revision	Date	Author	Reviewer	Description
V1.0	02/29/2024	Yang Kaijin		Original Document

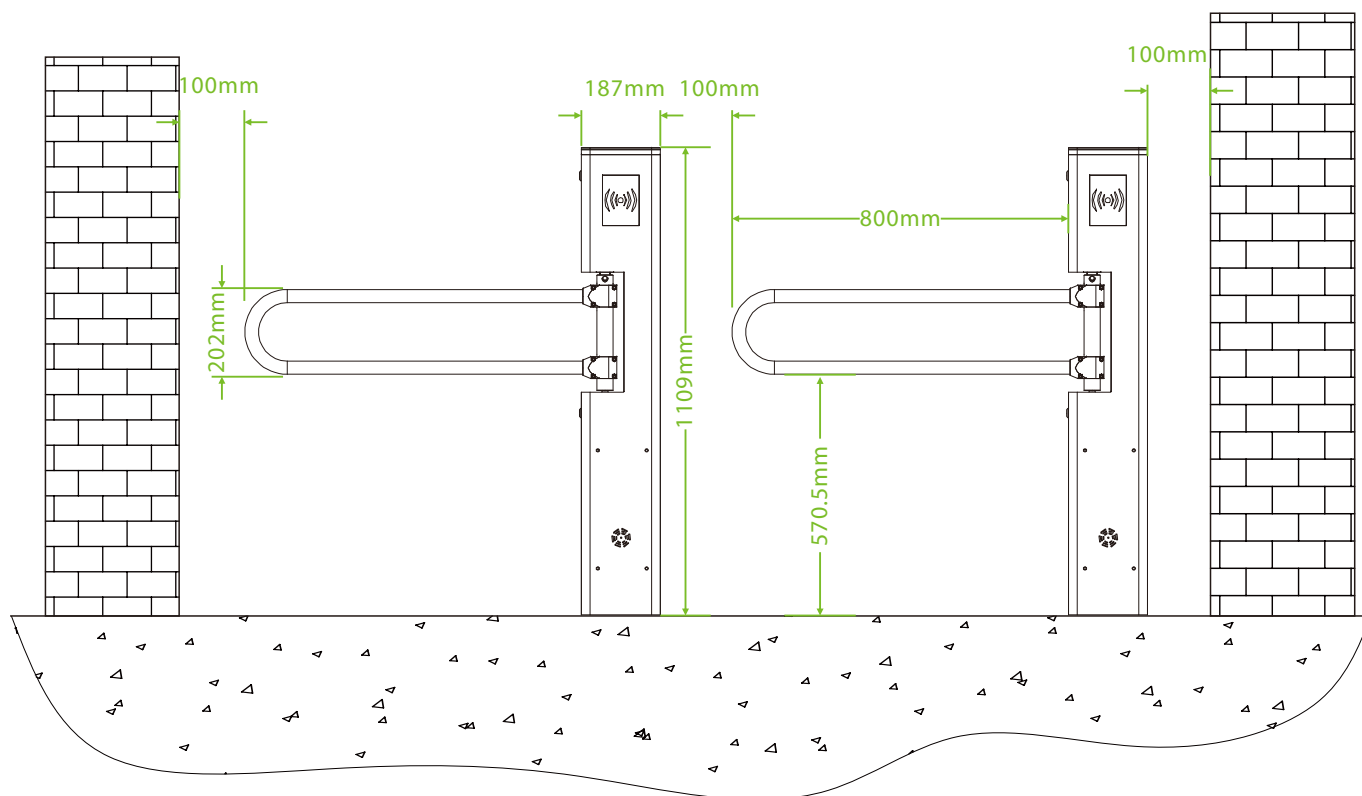
## 1 Installation Requirements

1. It is recommended that the device be installed on a level and solid floor. If the floor is uneven or not strong enough to hold the device in place, resurface the floor or use a pedestal mount to alleviate the change problem.
2. Avoid using the device directly in open air or wet, corrosive environments where rain, moisture, or corrosive materials may impact its lifespan. Use it only if the device is explicitly rated for waterproofing.
3. Make sure the device's grounding wire is securely connected. Differentiate between strong and weak power setups to prevent potential harm to personal safety and unforeseen incidents.
4. After installation, inspect the grounding wire, connectors, junctions of the connecting line, and moving parts to ensure secure connections. Tighten any loose nuts, screws, or fasteners promptly to prevent long-term gate failure.

## 2 Installation Environment

Refer to the provided figure to identify the installation position based on the device's size and space requirements. When installing against a wall, leave a 100mm space to allow for opening the top cover during commissioning and maintenance. Maintain a 100mm distance between two devices if multiple channels are present.





### 3 Preparation

Before installing the device, make sure you have the following items:



Screwdriver



Pencil



Electric Drill



Wrench



Tapeline



Hex Wrench



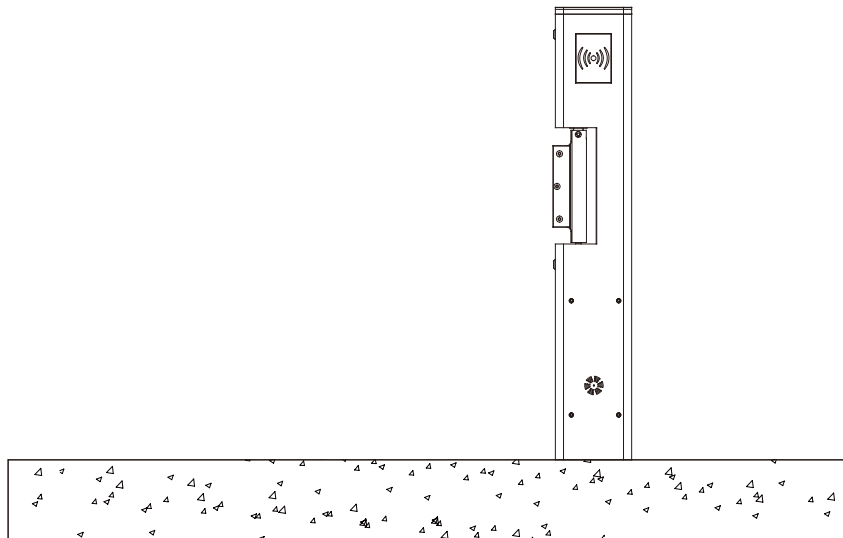
Cutting Machine

**Note:** Except for the hex wrench, ensure all other tools are provided by you.

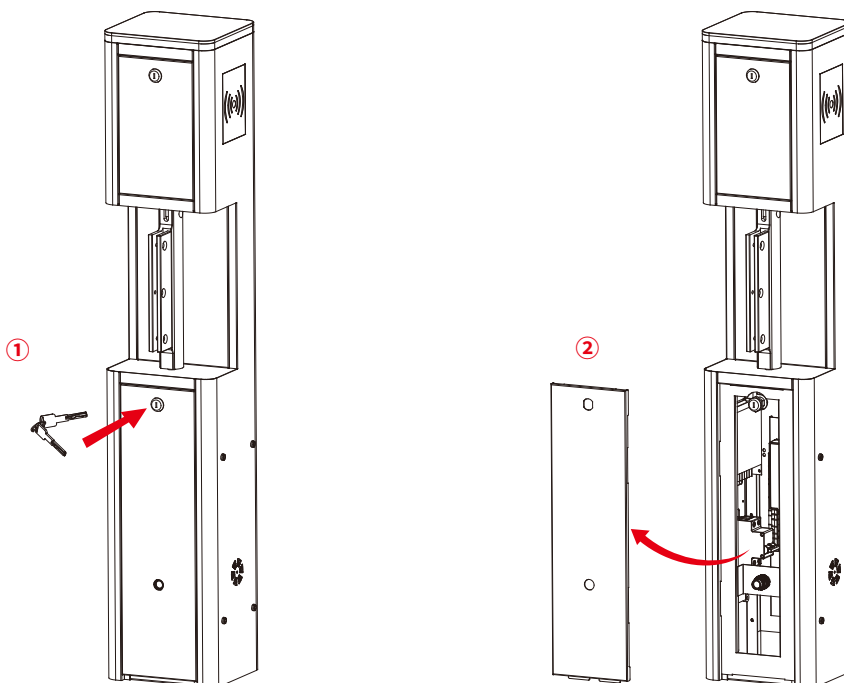


## 4 Installation

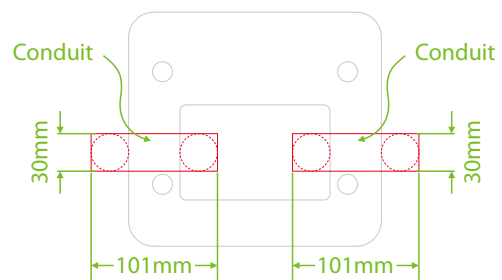
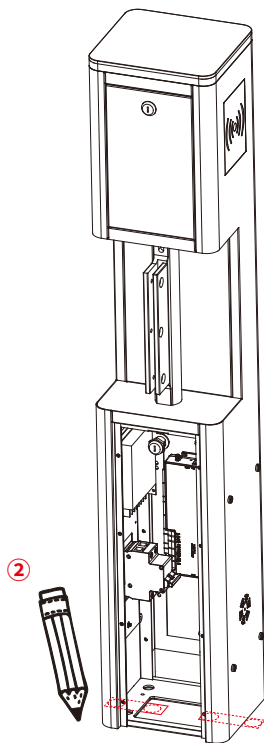
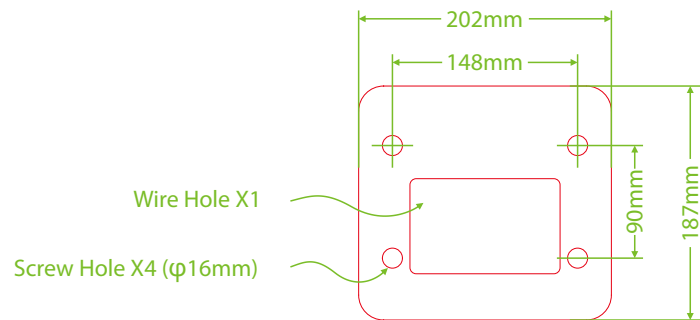
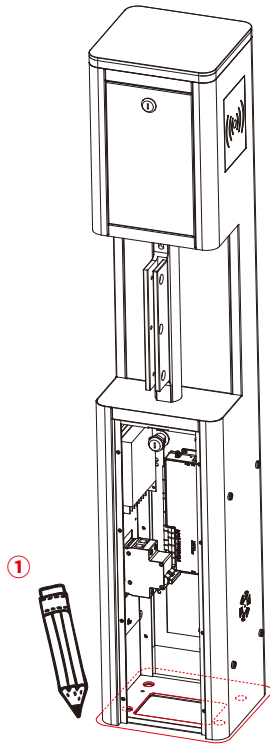
1. Transport the device to its installation location.



2. Use the key to open the device chassis and then remove the cover.

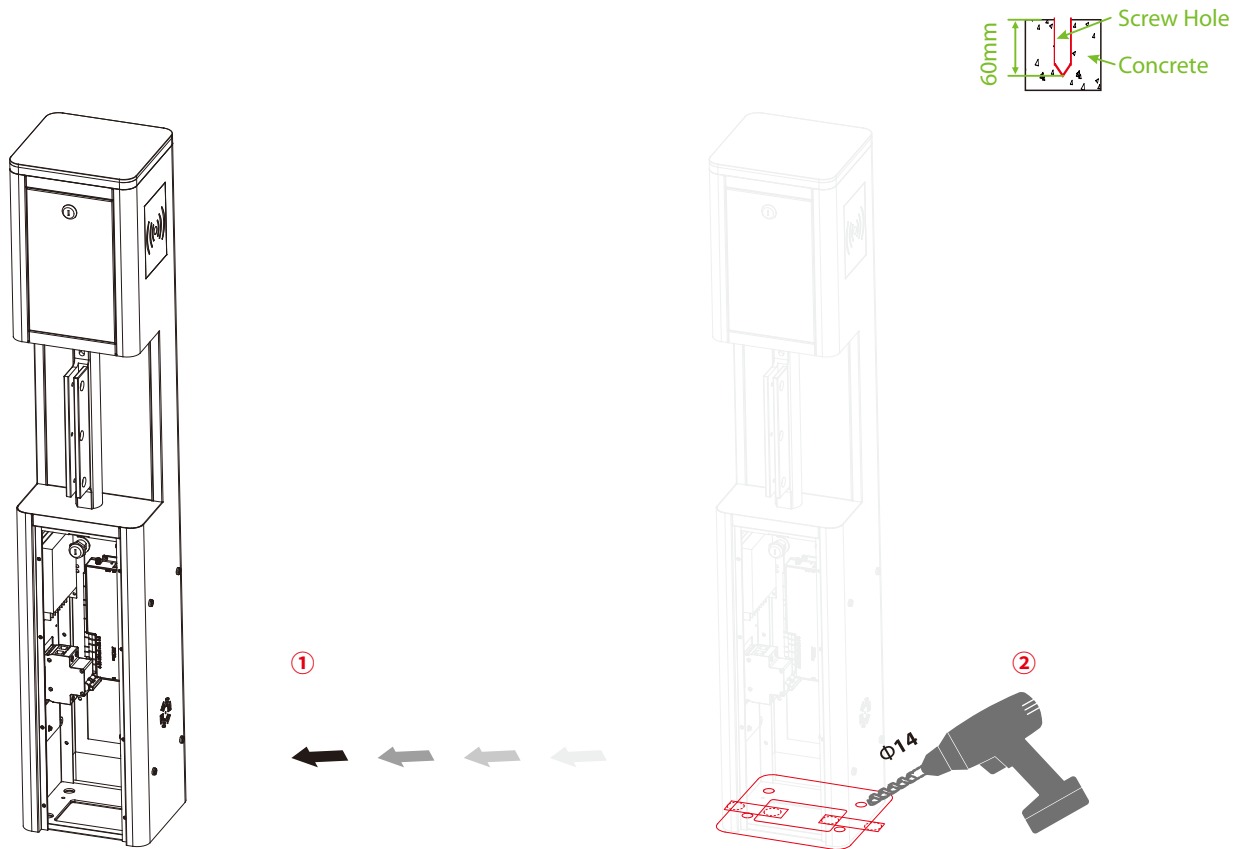


3. Use a pencil to mark down the screw holes, wire holes, and conduits of the device.

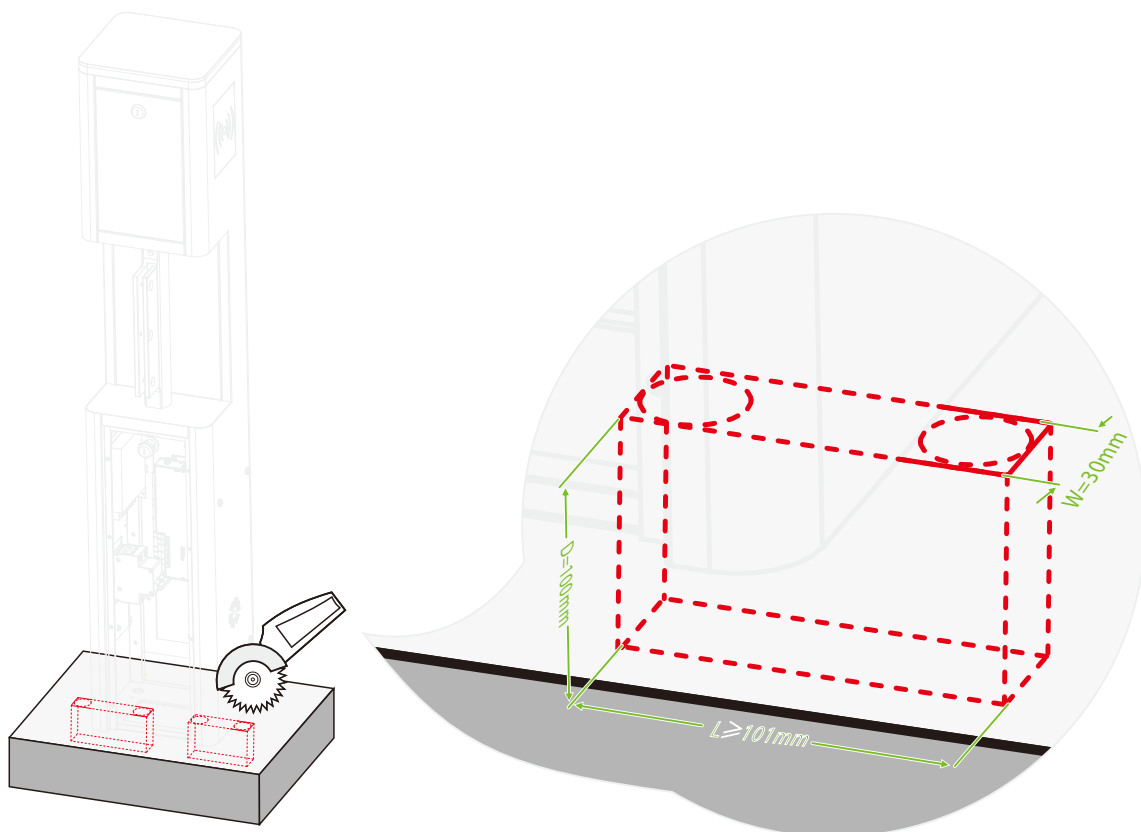


**Note:** For the safety of the device and future maintenance, when installing, please ensure to encase the power cable and network cable within a PVC pipe with a diameter of 20mm. The conduit diameter should exceed 20mm; this guide suggests using 30mm as an example.

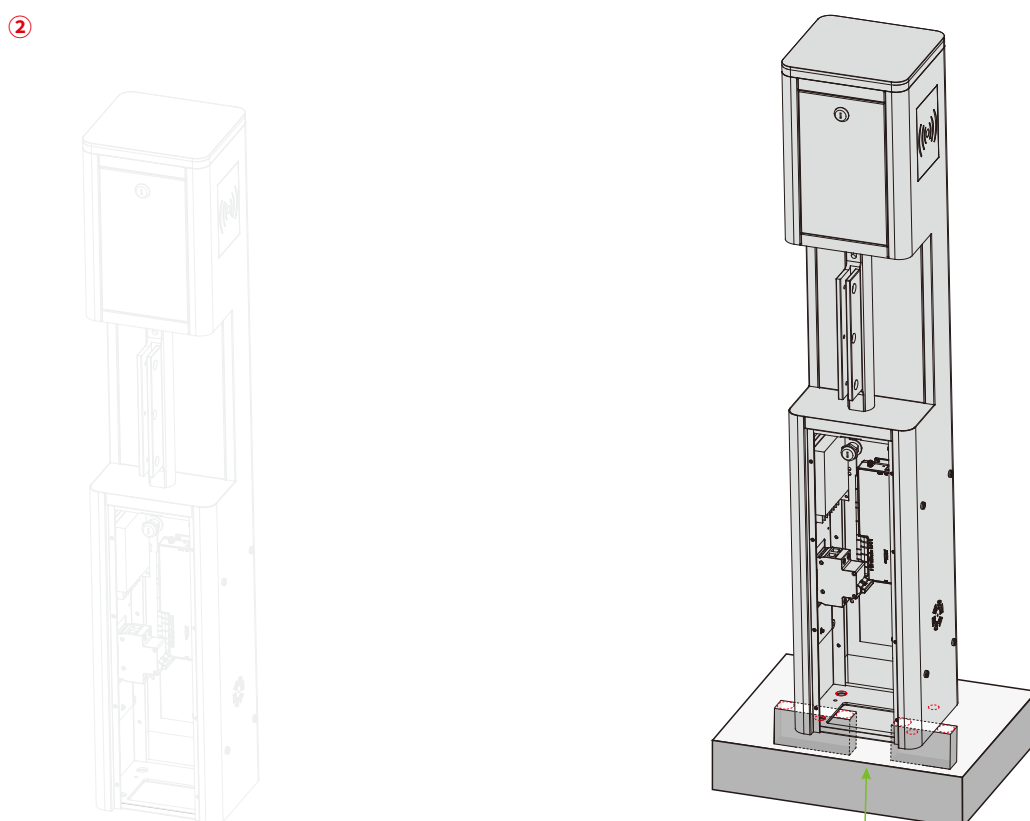
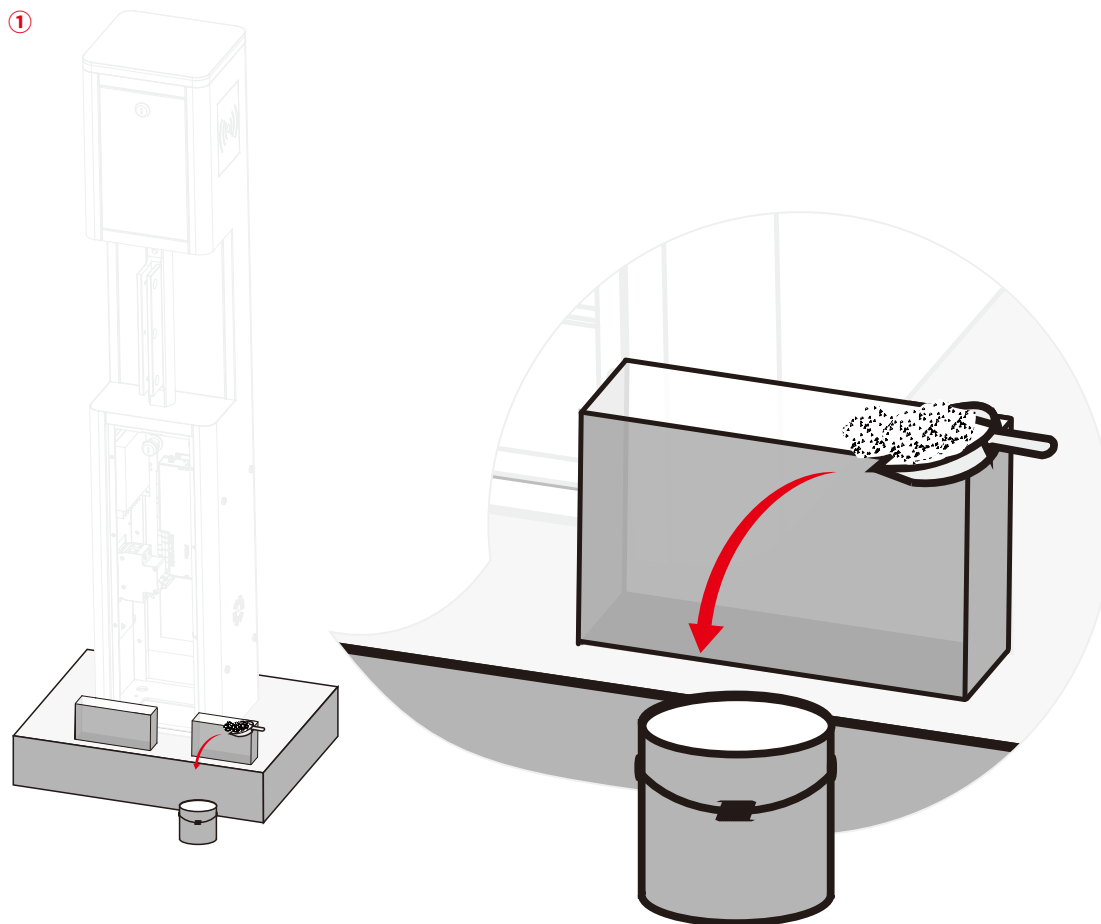
4. Take out the device and use an electric drill to create 4 holes based on the markings.



5. According to the mark of the device, use a cutting machine to create two conduits on the ground that is 30mm wide, 101mm length and 100mm deep.



6. After drilling, clean up debris and dust, then reposition the device at the installation site. Verify if the drilled holes and conduits align with the marks on the device.

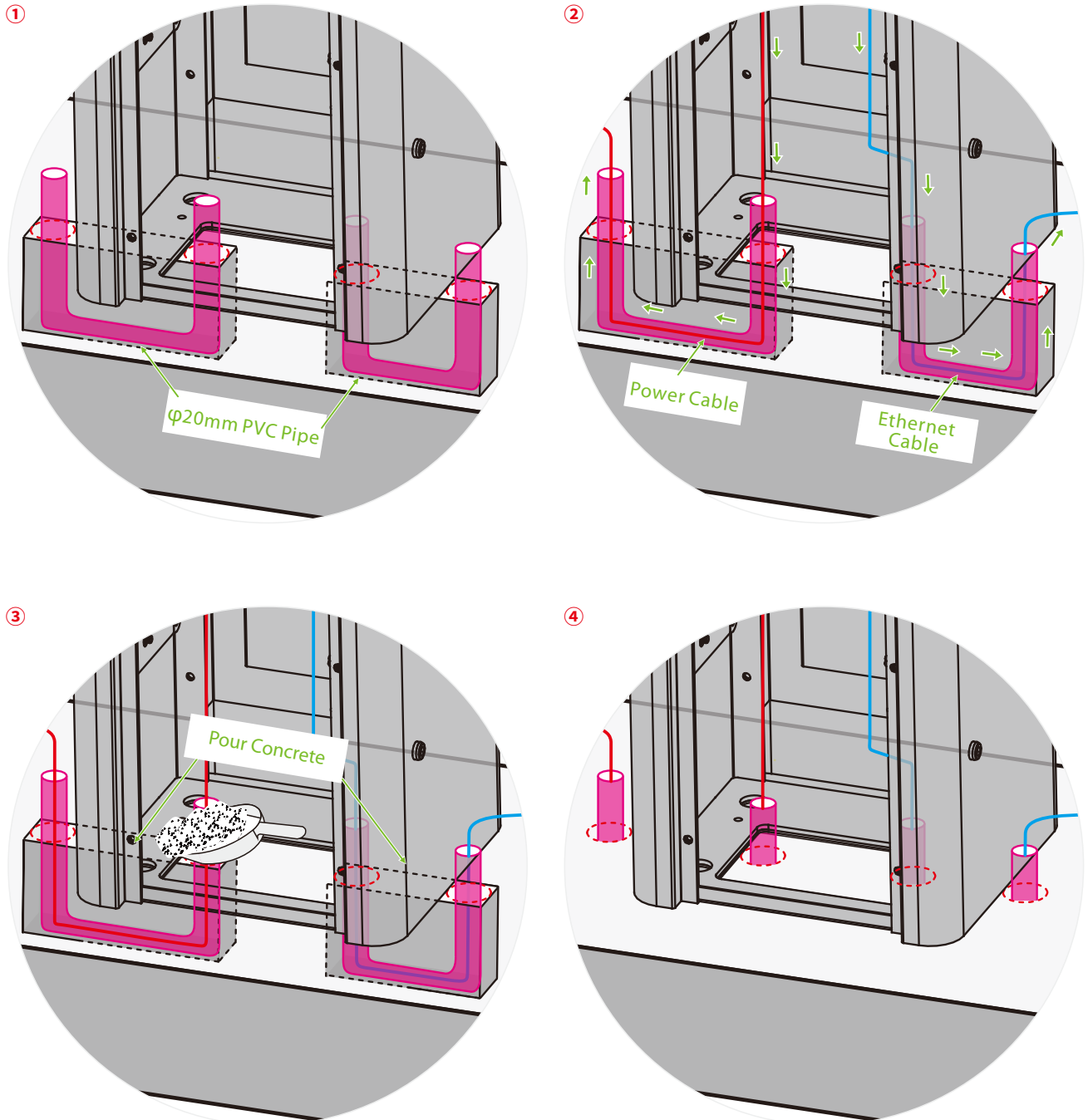


7. Place the 20mm diameter PVC pipe into the conduit, thread the power cable and Ethernet cable through the PVC pipe to connect the power supply. Test all device functions for normal operation, disconnect the power supply once confirmed, and fill the conduit with concrete.

  $\phi 20\text{mm}$  PVC Pipe

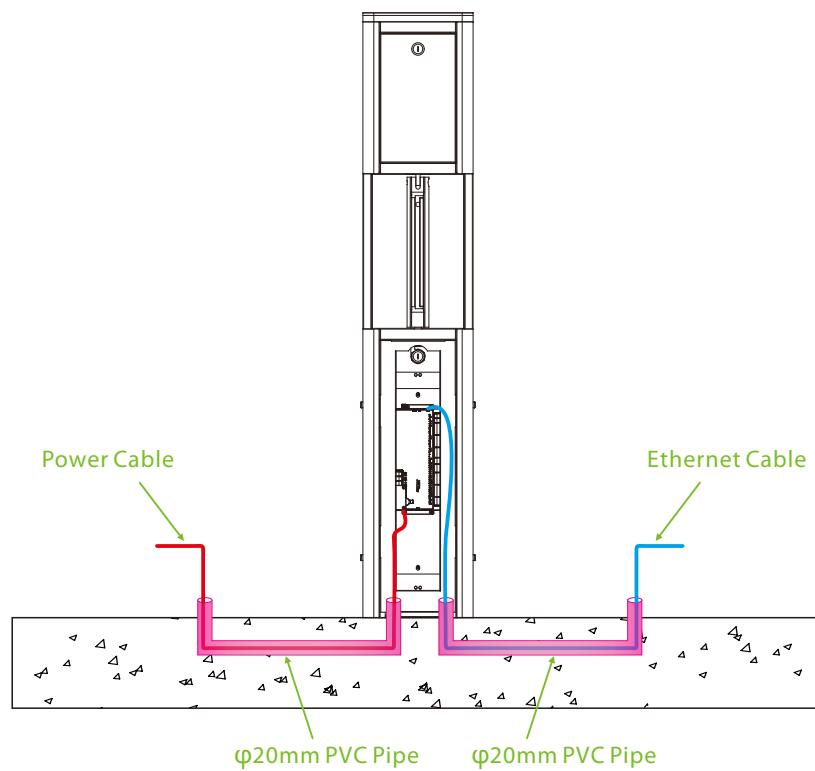
 Power Cable

 Ethernet Cable

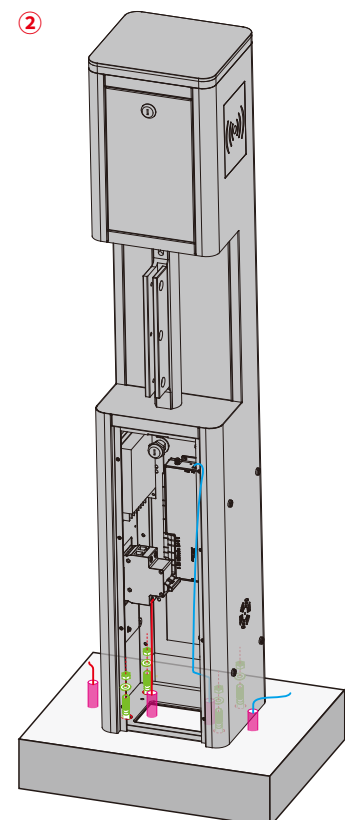
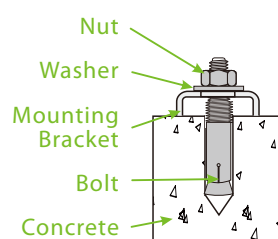
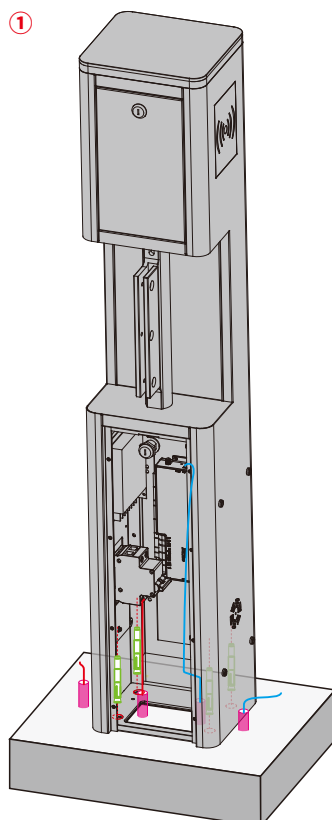
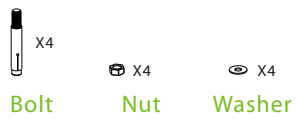


#### Note:

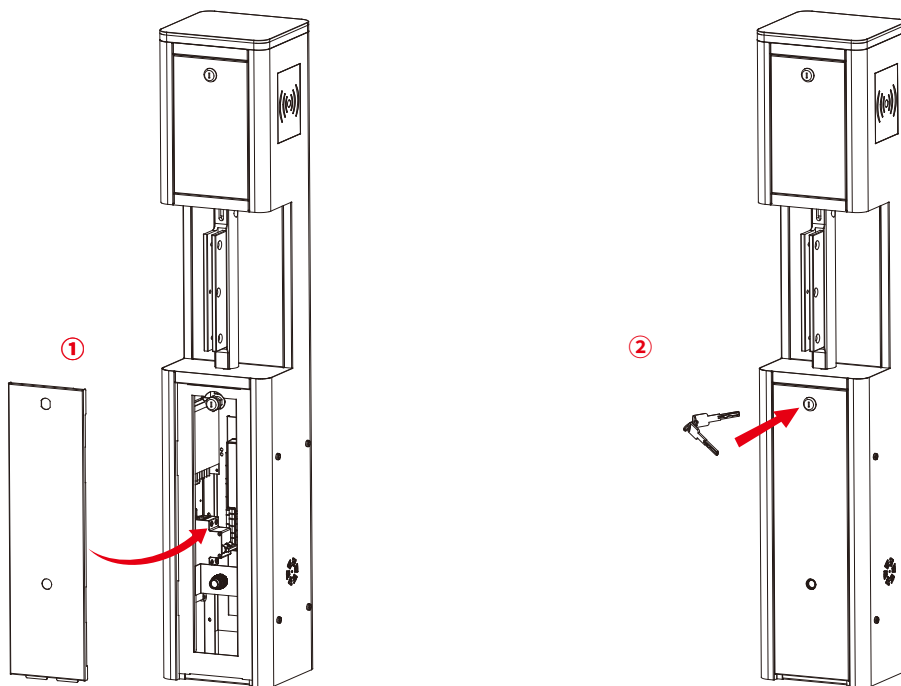
- 1). Separate strong and weak power lines during installation.
- 2). After completing the test, disconnect the device's power supply, and avoid operating the equipment with electricity.
- 3). The conduit depth should be a minimum of 100mm, and the height of the exposed PVC pipe above the ground should exceed 100mm. Ensure the exit bends back to prevent water from entering the wire pipe.



8. Align the device with the drilled holes. Next, insert the bolts and secure them using a wrench. Finally, add the washers and the nuts, and tighten them securely with a wrench.

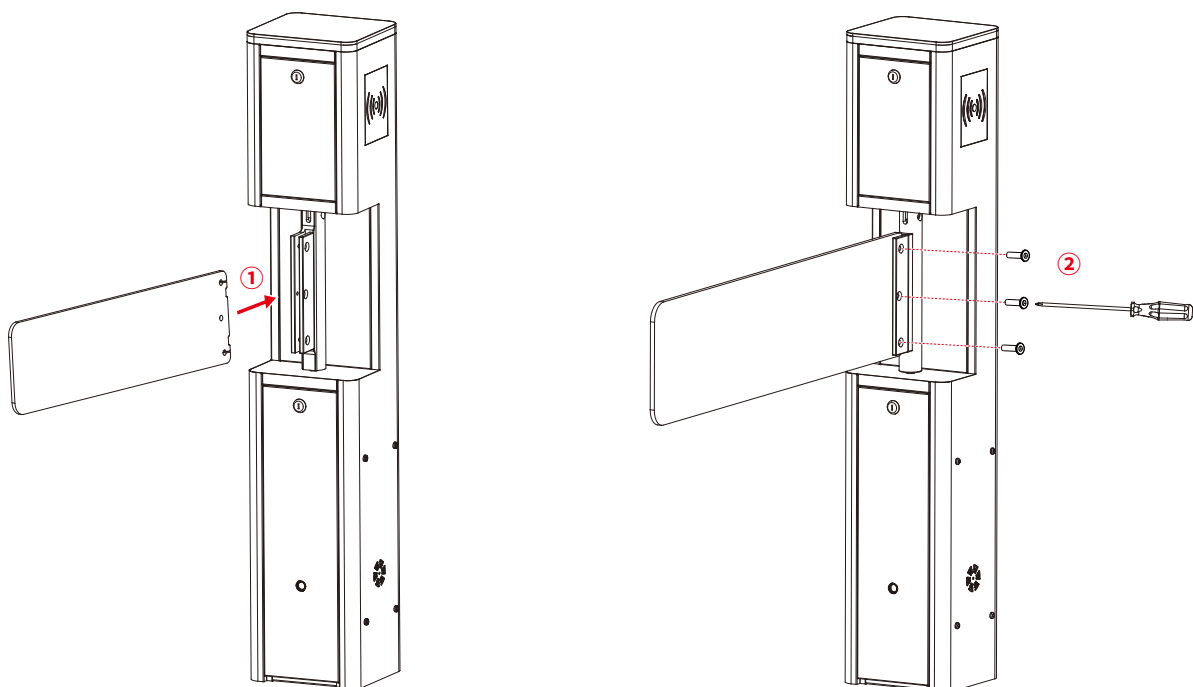


9. Install the chassis covers and use the key to lock it.

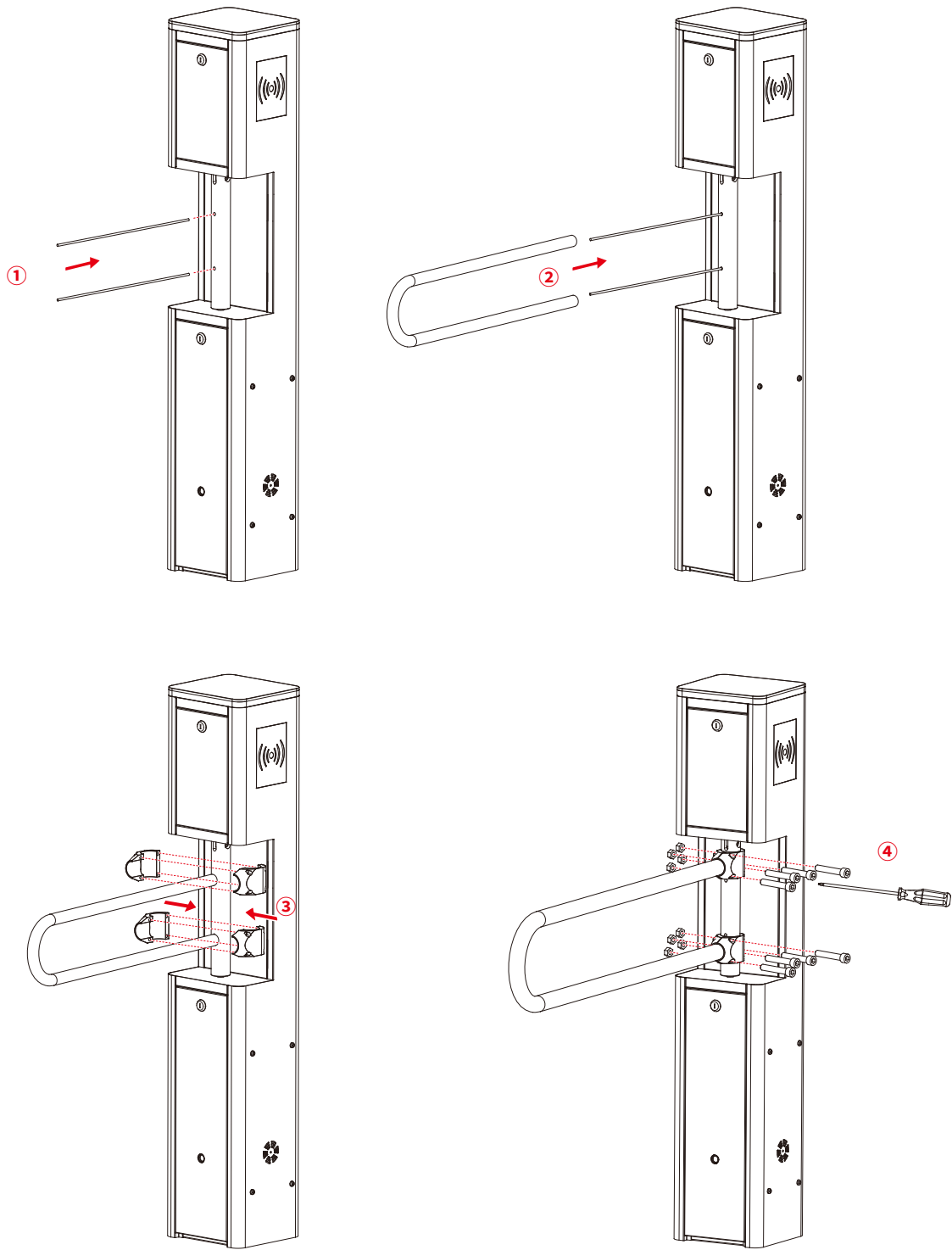


10. Install the swing arm.

**Glass Swing Arm:**

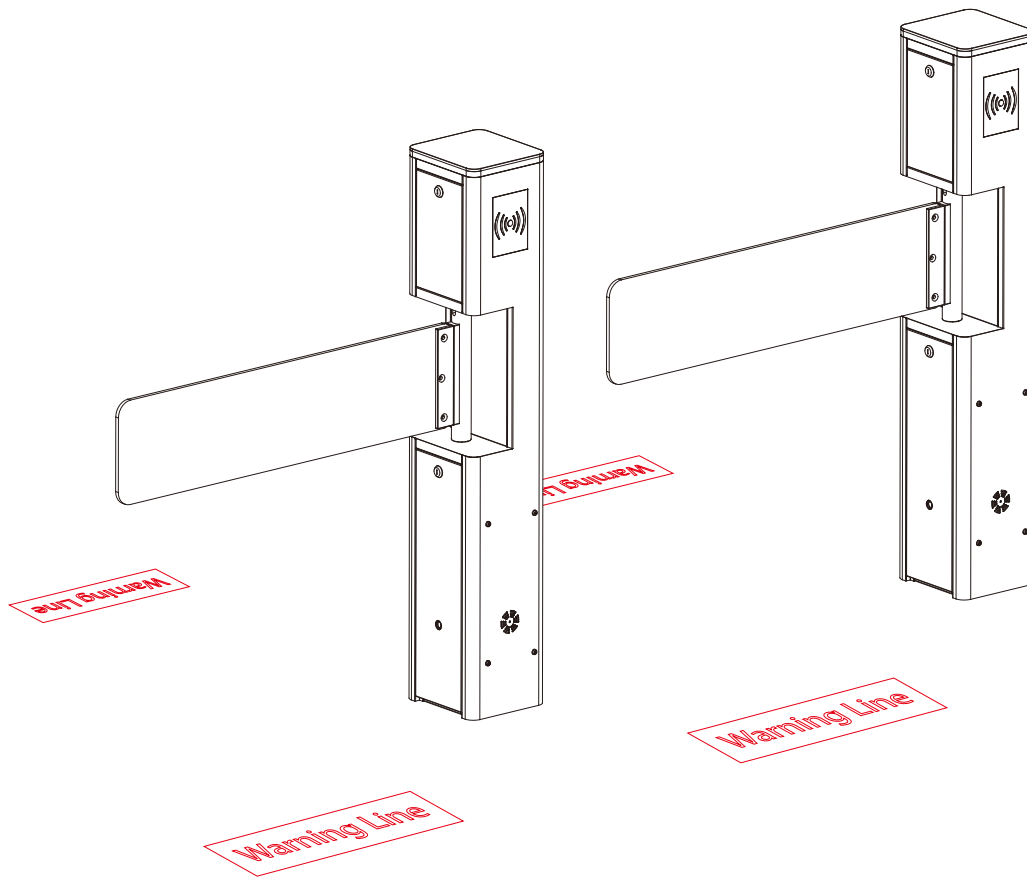


Stainless Steel Swing Arm:

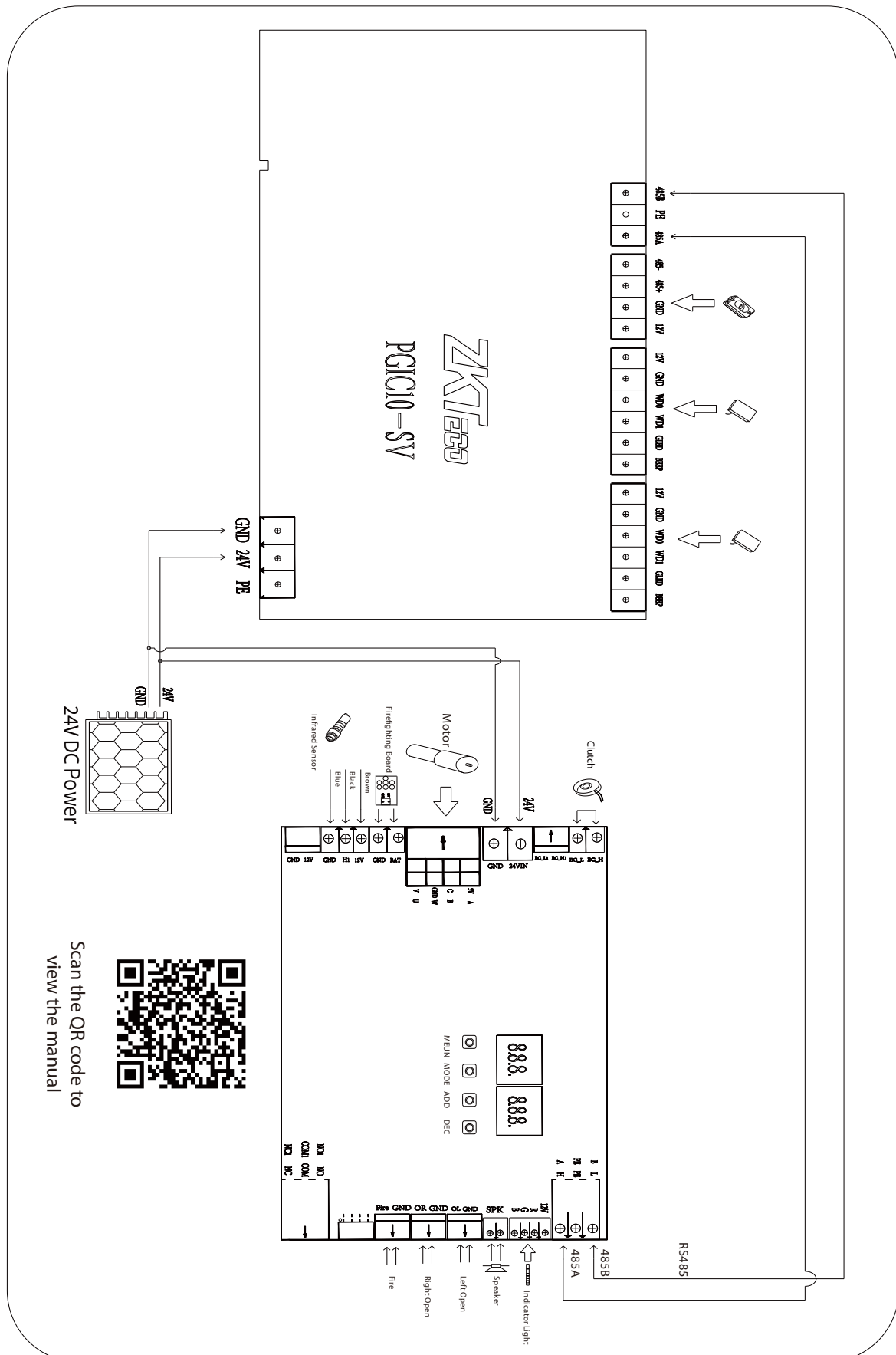




11. We suggest marking a warning line on the floor after installation. This serves as a reminder for users to wait outside the marked area until the previous user completes the verification process and passes through the device.



## 5 Wiring Diagram



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