

Installation Guide

Saturn-S2000 Series

Applicable Model(s): Saturn-S2000, Saturn-S2200

Version: 1.0

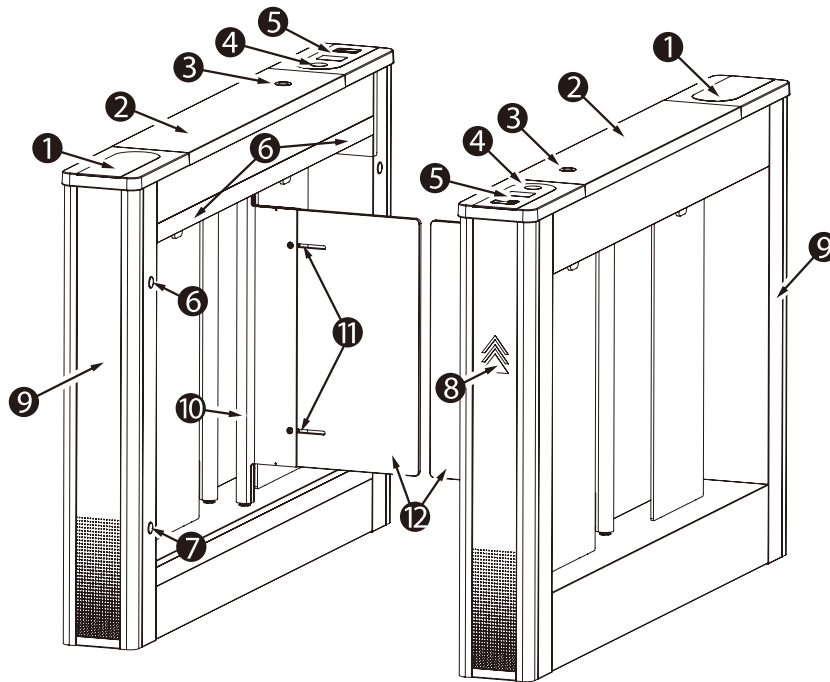


Revision History

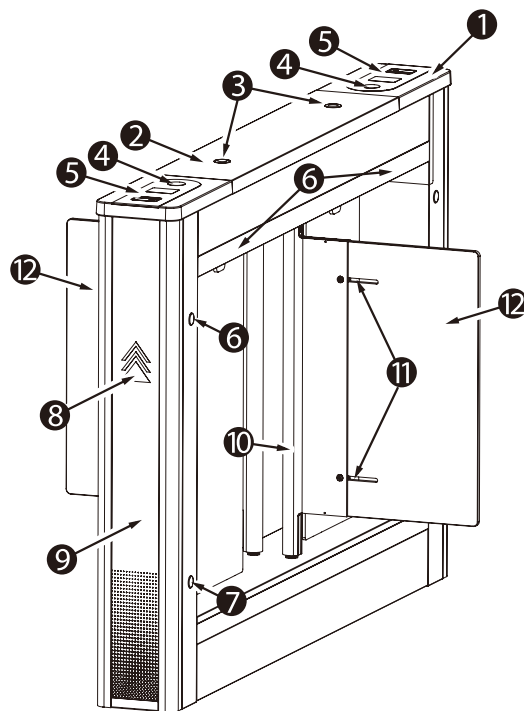
Revision	Date	Author	Reviewer	Description
V1.0	05/15/2025	Julia Huang		Original Document

1 Overview

Saturn-S2000



Saturn-S2200



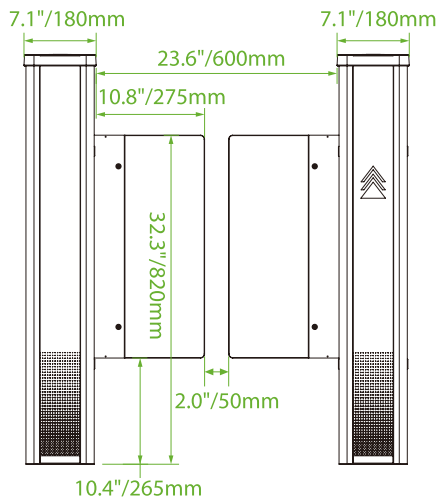
- ① Authentication Panel
- ② Top Lid
- ③ Hole Plugs 34 Diameter
(Reserved for Face Device Mounting)
- ④ Traffic Indicator
- ⑤ Verification Area
- ⑥ Infrared Sensor
- ⑦ Extended Infrared Sensor
- ⑧ Visual Indicator
- ⑨ Side Lid
- ⑩ Shaft Roller
- ⑪ Adjustable Mounting Slots
(Adjustable range: 75 mm)
- ⑫ Barrier

2 Dimensions

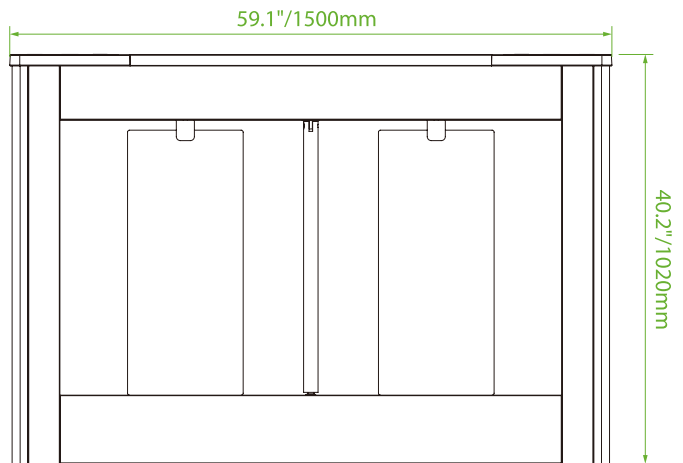
Saturn-S2000

Unit: inch/mm

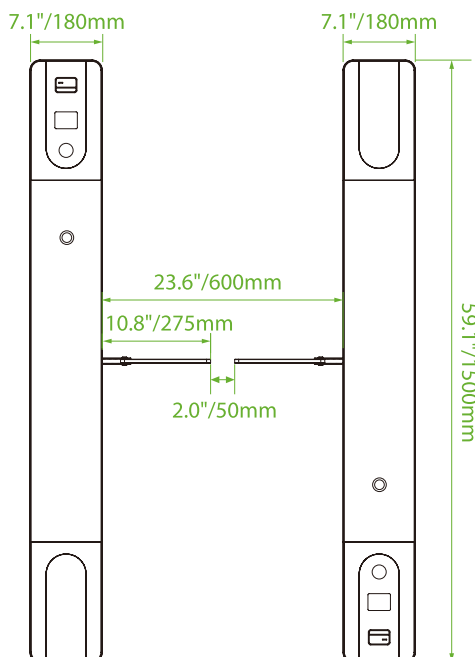
Front View



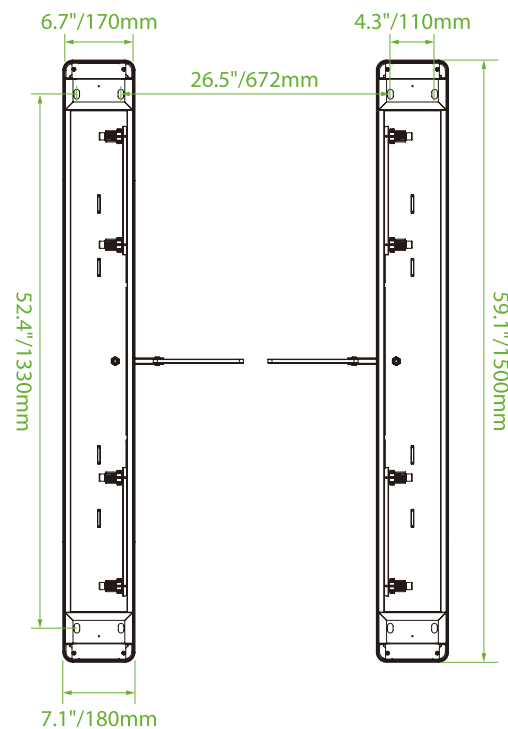
Side View



Top View



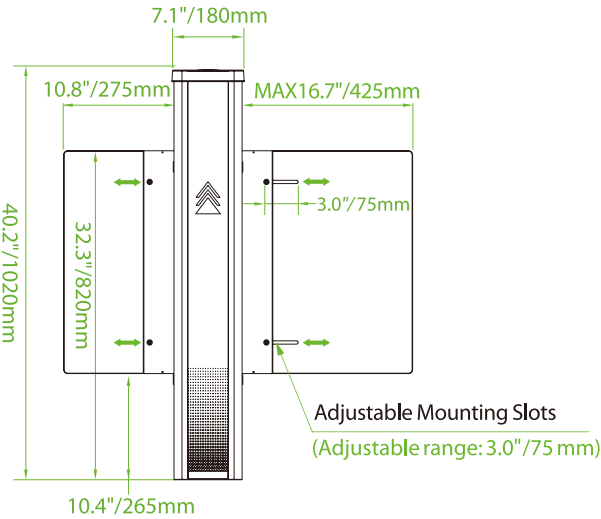
Bottom View



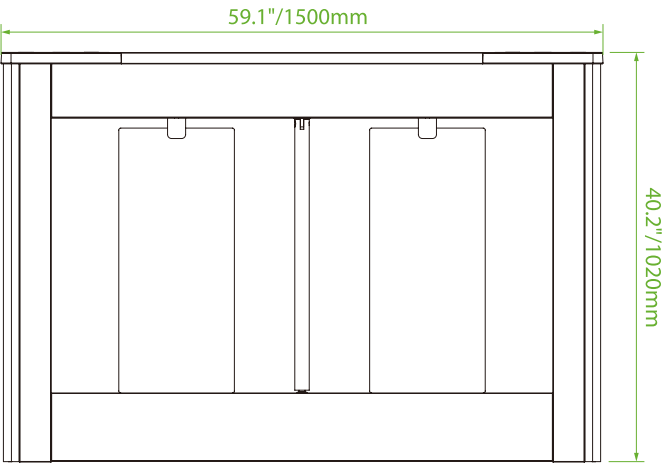
Saturn-S2200

Unit: inch/mm

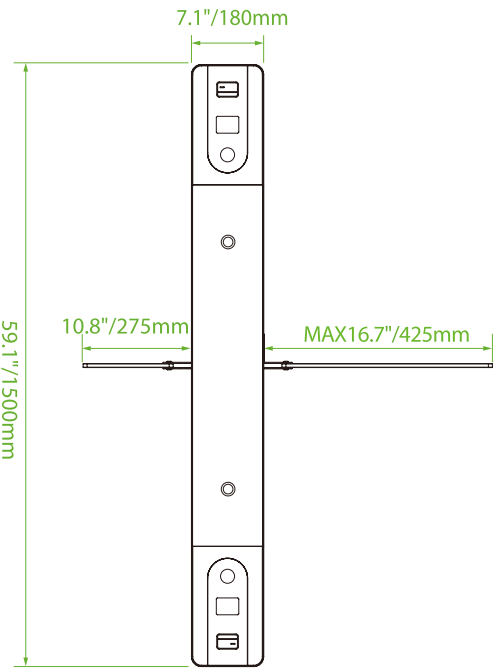
Front View



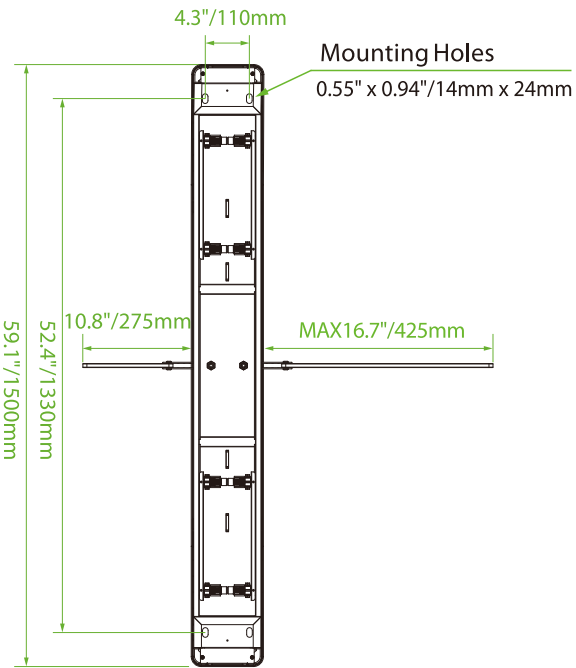
Side View



Top View



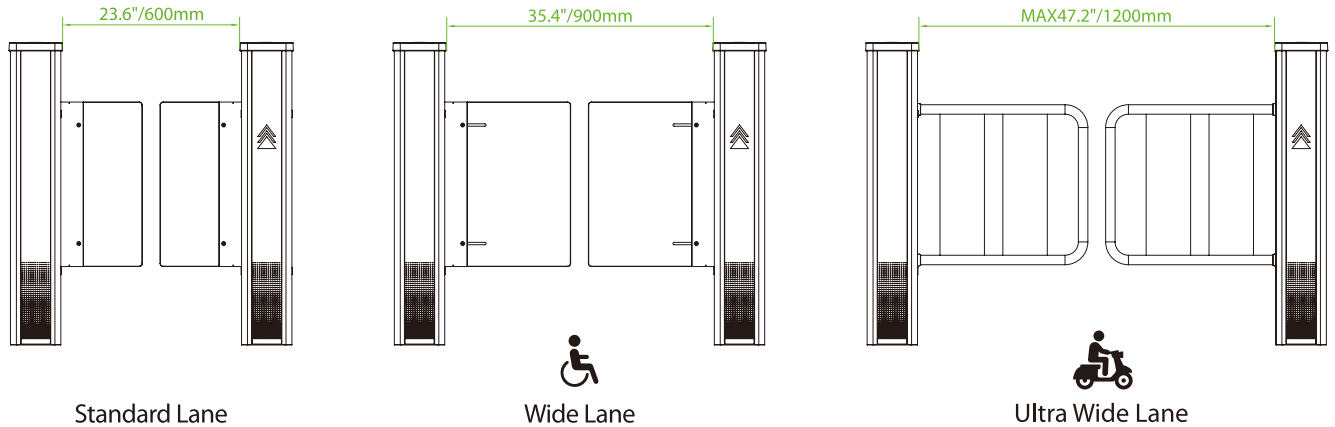
Bottom View



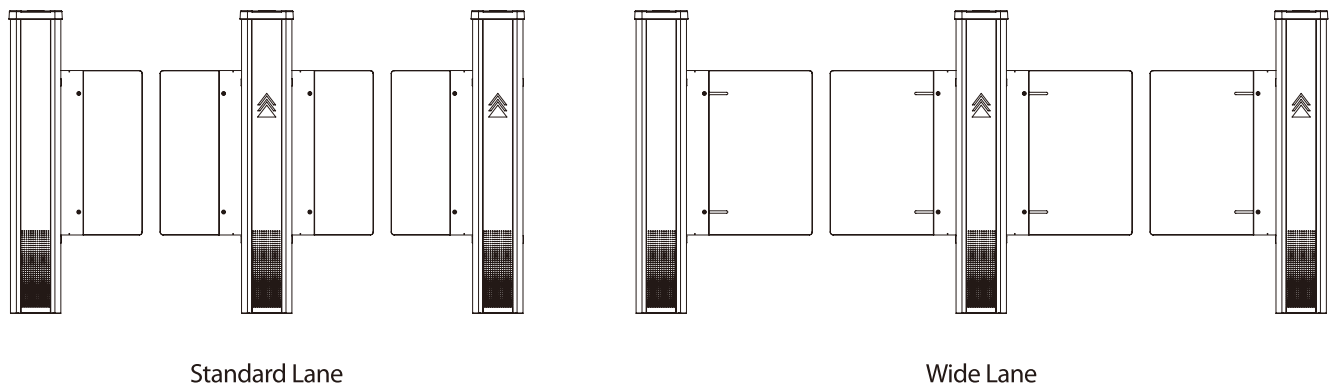
3 System Composition

The Saturn-S2000 and Saturn-S2200 can be combined to form a single, dual or multi-lane system, allowing the user to select the appropriate swing barrier size according to actual needs.

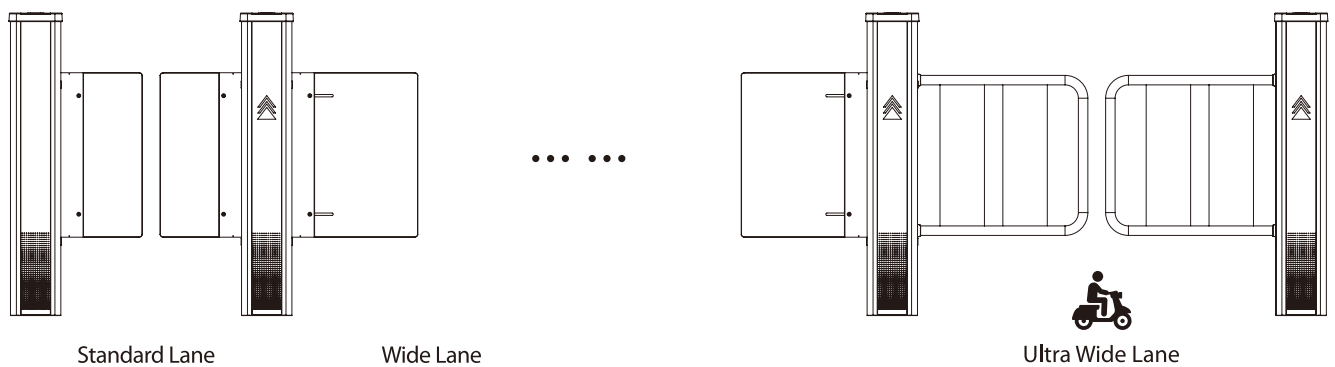
● Single-lane



● Dual-lane



● Multi-lane

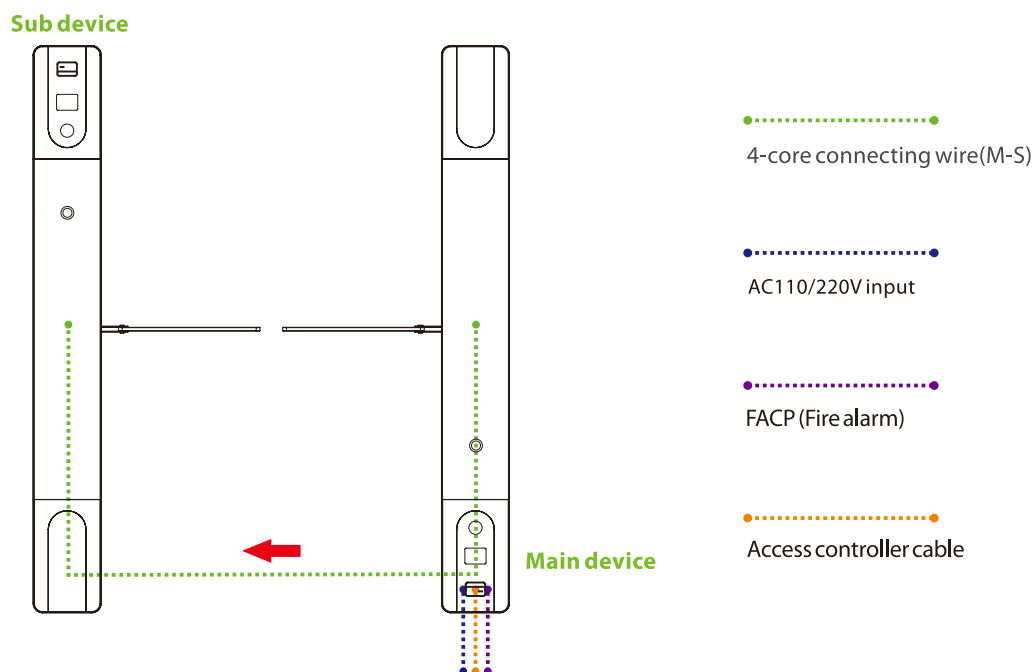


Notes:

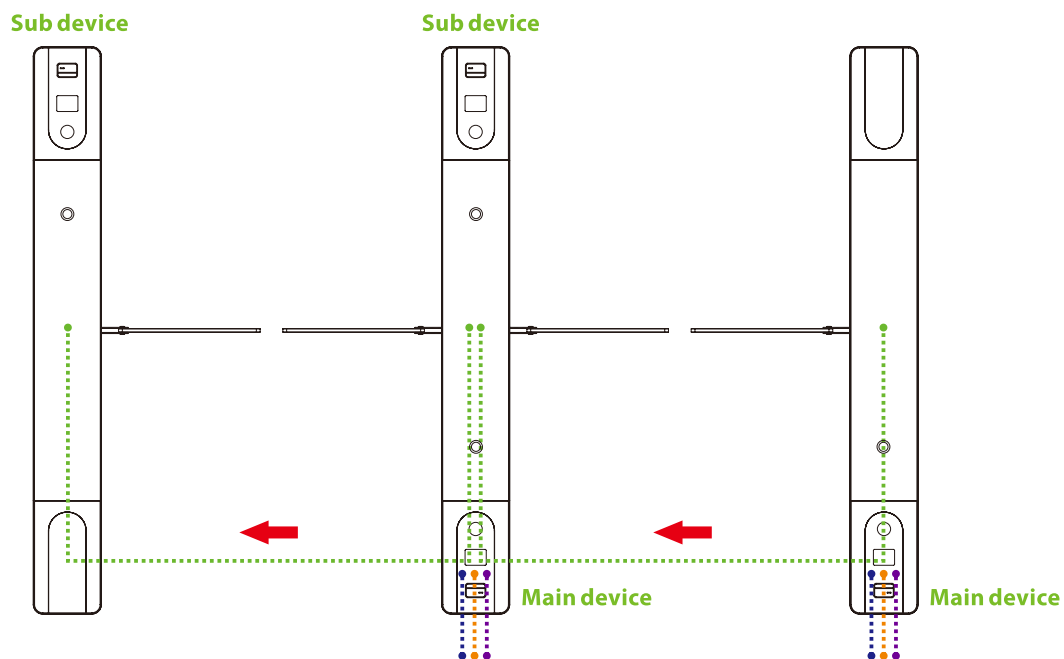
1. Standard lane range: 23.6 in - 29.5 in (600 mm - 750 mm)
2. Wide lane range: 29.5 in - 35.4 in (750 mm - 900 mm)
3. When the lane width is 35.4 in - 47.2 in (900mm - 1200mm), stainless steel barriers are required.

4 Wiring

● Single-lane wiring



● Dual-lane wiring



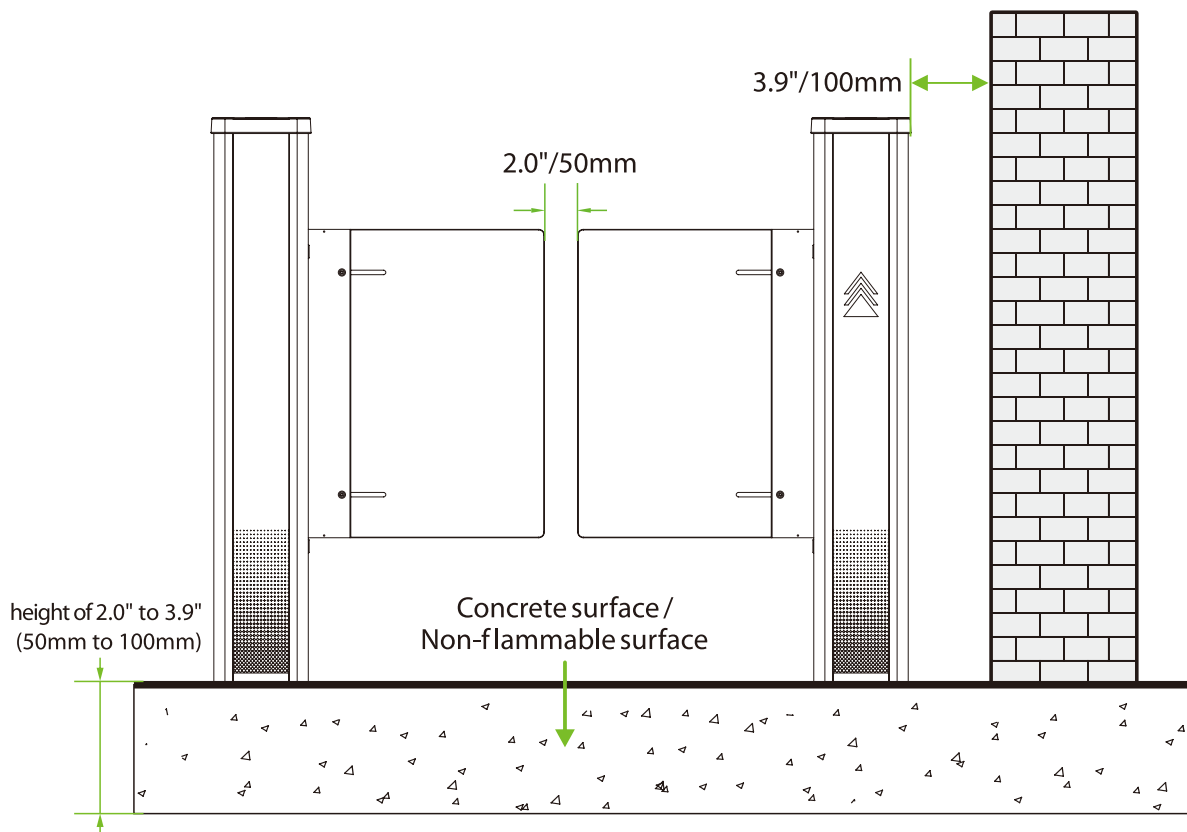
Remarks: The multi-lane wiring method is similar.

5 Installation Requirements

1. It is recommended that the turnstile must be installed on a horizontal solid platform with a height of **2.0" to 3.9" (50mm to 100mm)**.
2. It is recommended that the turnstile should not be used in the corrosive environment.
3. Make sure that the ground wire of the system is securely connected to avoid personal injuries or other accidents.
4. After installation, check if the connection has been done correctly at the connecting points of the ground wire, at the connector assemblies and wiring points of the circuits, as well as at each movable part of the turnstile. Any loose nuts, screws and other fasteners should be tightened in time to avoid any failures caused by long-time operations.

6 Installation Environment

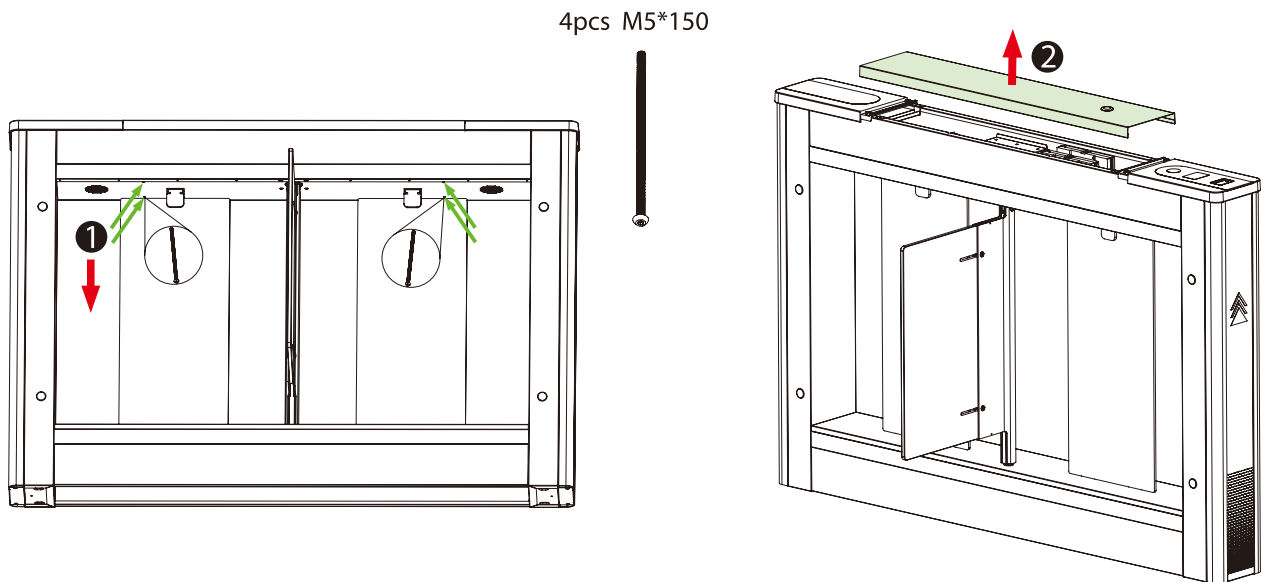
1. Before installation begins, prepare installation tools, check the device and the accessories, and clear the installation base.
2. Make sure that the appliance is mounted on a concrete surface or other non-flammable surfaces.
3. The installation position of the turnstile depends on its size. A distance of **3.9" (100mm)** between the turnstile and the wall needs to be reserved for ease of opening the top lid of the turnstile to perform maintenance and adjustment. The reference figure is shown below:



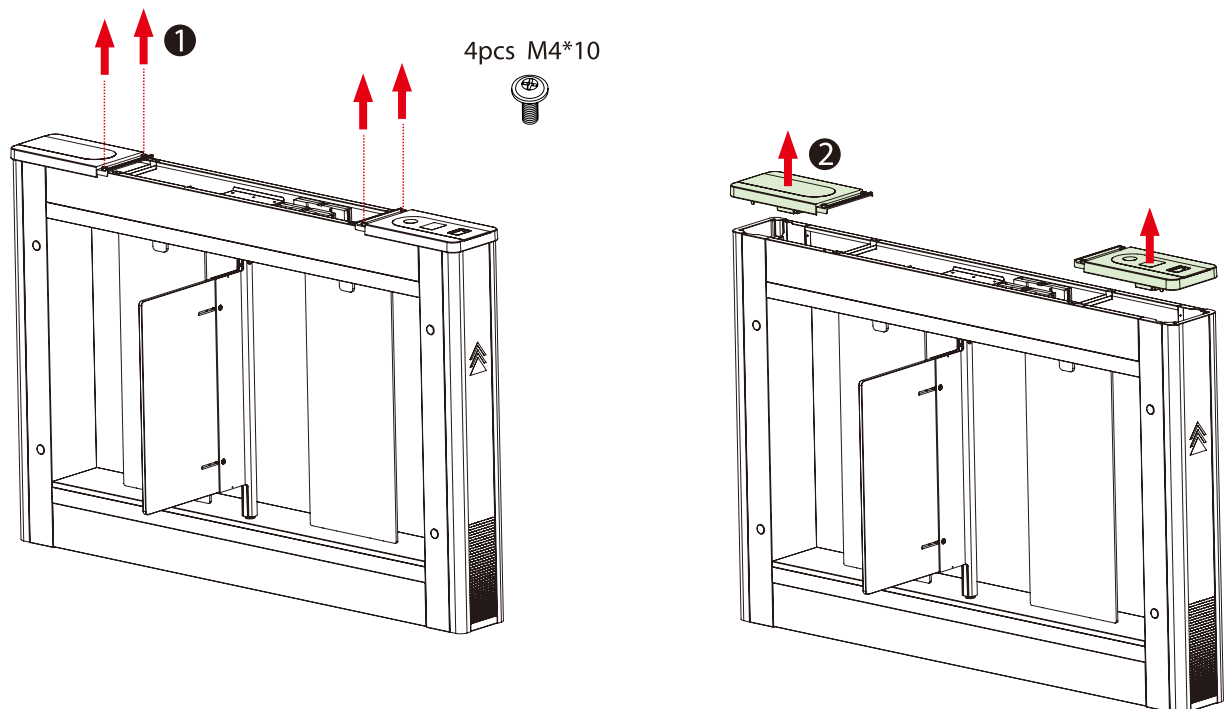
7 Installation Cabinet

Step 1 Remove the Top Lid and Authentication Panel

1. Loosen the four M5*150 screws with an Allen key in the position shown in the following figure. Then remove the top cover upwards.

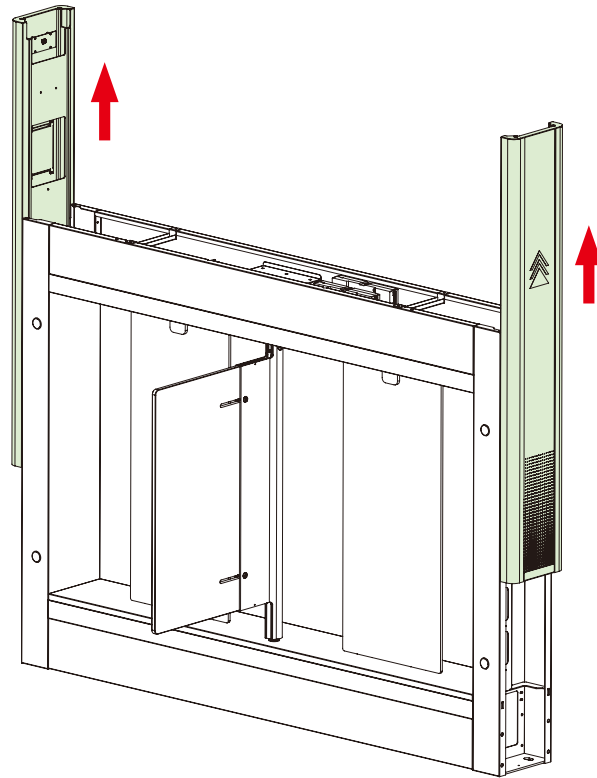


2. In the position shown below, use a Phillips screwdriver to unscrew the four fixing screws (round head Phillips screws with washers) of the authentication panel.



Step 2 Remove the Side Lid

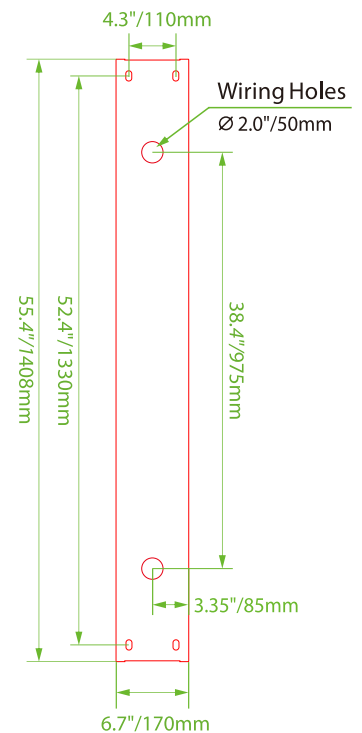
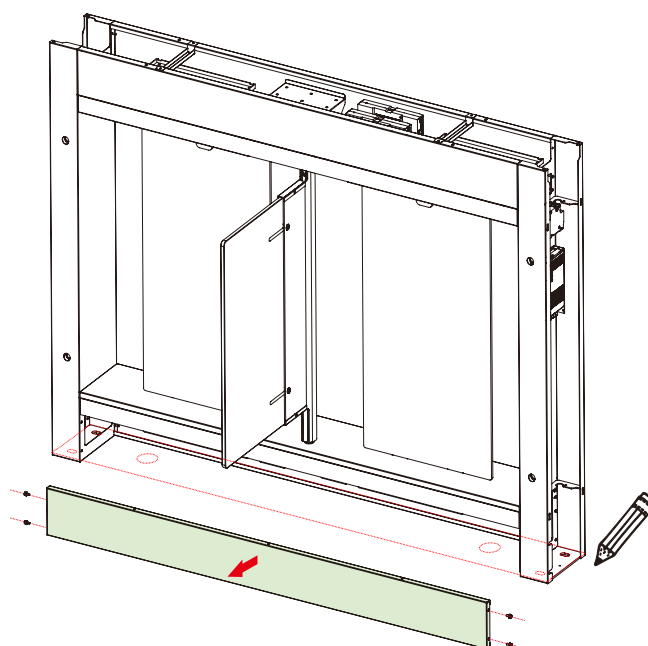
Push the side lids on both sides upward and then remove them.



Step 3 Marker Position

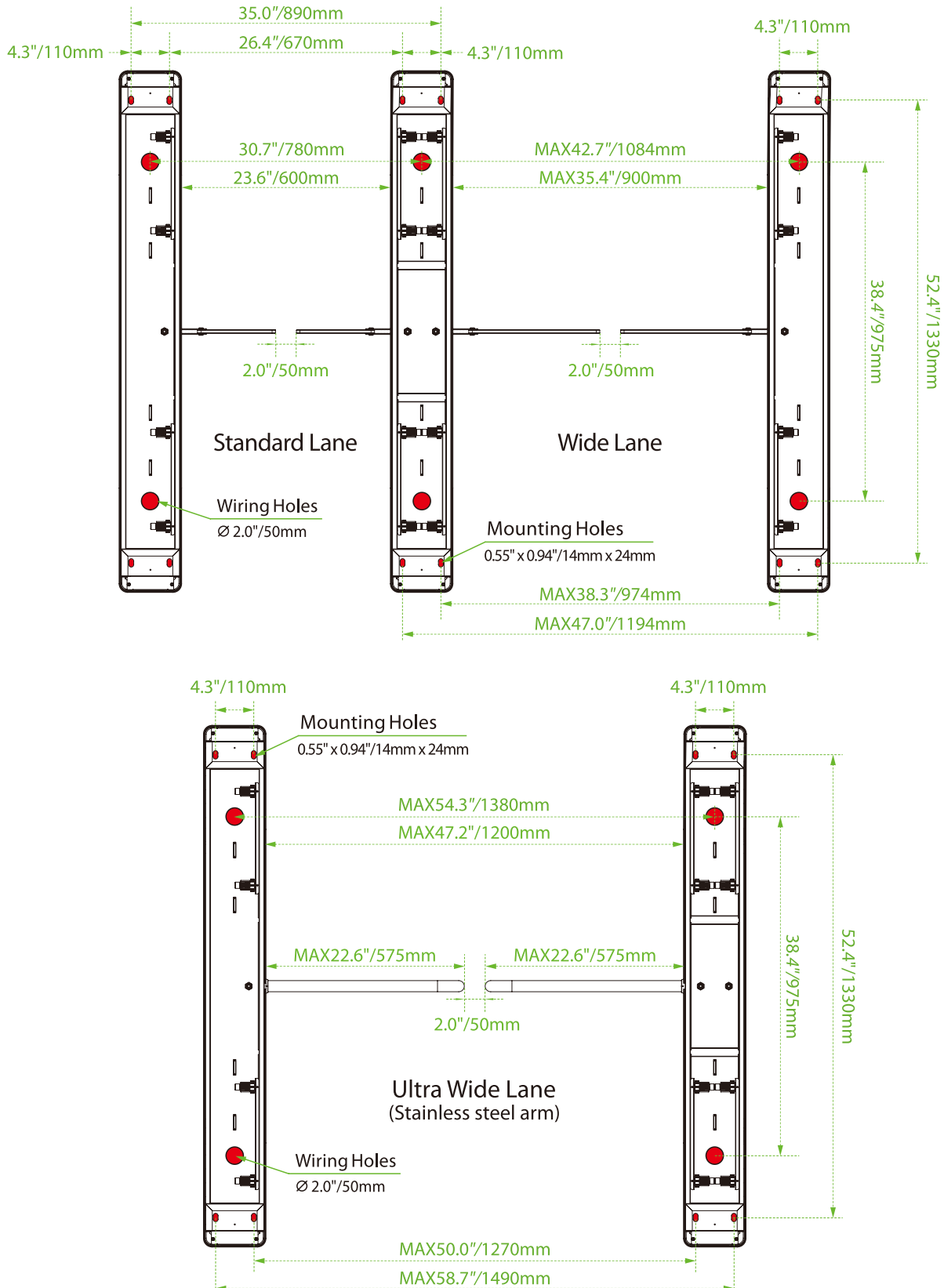
Draw the location of the cabinet with a marker and mark each location of the mounting holes. There will be a total of four mounting holes and two wire holes per cabinet.

Tip: You can open the bottom flap for easier handling.



Step 4 Determine the Mounting Location

1. Please refer to the user's manual and complete the **power-on self test** operation before installation.
2. Then place the cabinet according to the mounting distances shown in the diagram below. Take care to measure the distance between the bottom inside walls of the cabinets on the entrance side and exit side of the channel and make sure that the measurements are consistent.

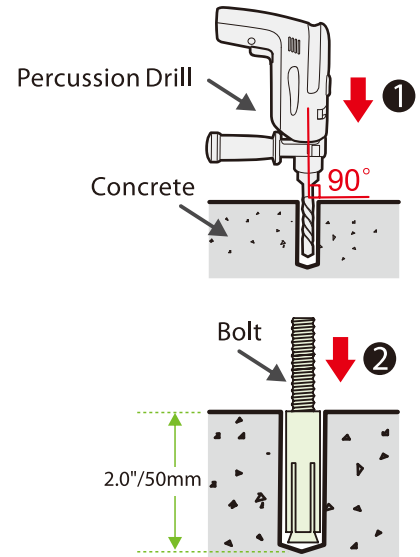
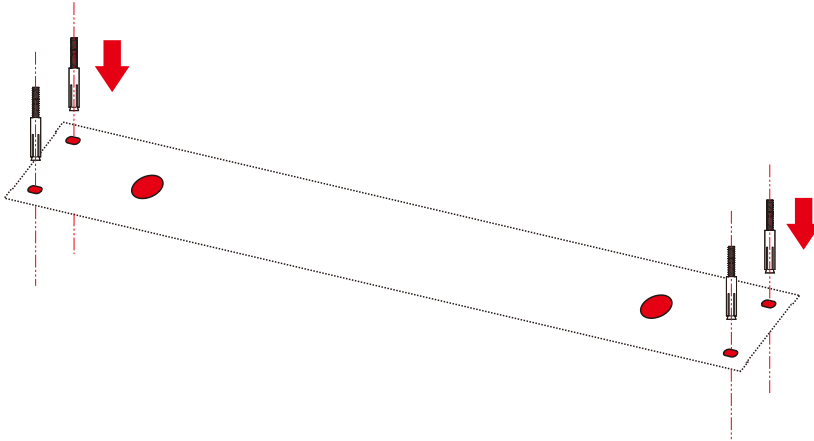


Note: When the lane width is 35.4 in - 47.2 in (900mm - 1200mm), stainless steel barriers are required.

Step 5 Drill Holes and Place Bolts

1. Using a concrete drill bit, drill the mounting holes **2.0" (50mm)** in depth at the center of each marked location.
2. Then insert the bolts vertically into the mounting holes as shown at right.
3. Make sure the bolts are placed in place. Use a hammer to tap the bolts into place, if needed.

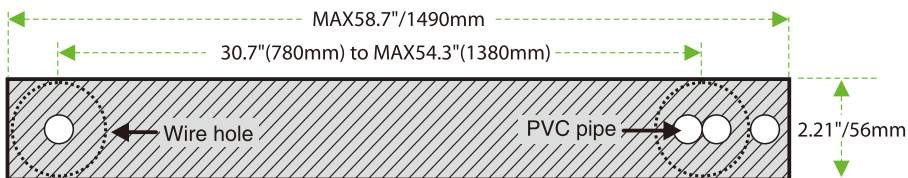
Place bolts into mounting holes



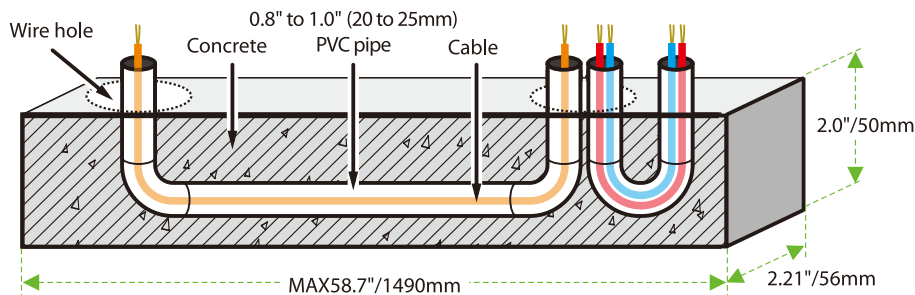
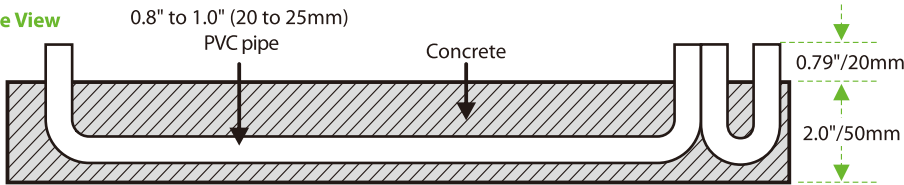
Step 6 Wireway Laying

1. Dig a recess of **2.0" (50mm)** depth between the wire holes on both sides of the channel with the dimensions shown below. Recesses can be dug at positions ① and ②.
2. Then lay two **0.8" to 1.0" (20 to 25mm)** diameter PVC pipes as shown below.
3. After threading the cable out of the PVC pipe, pour concrete to fix it in place.

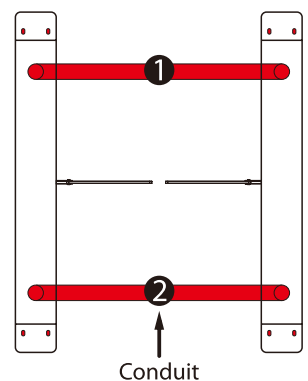
Top View



Side View



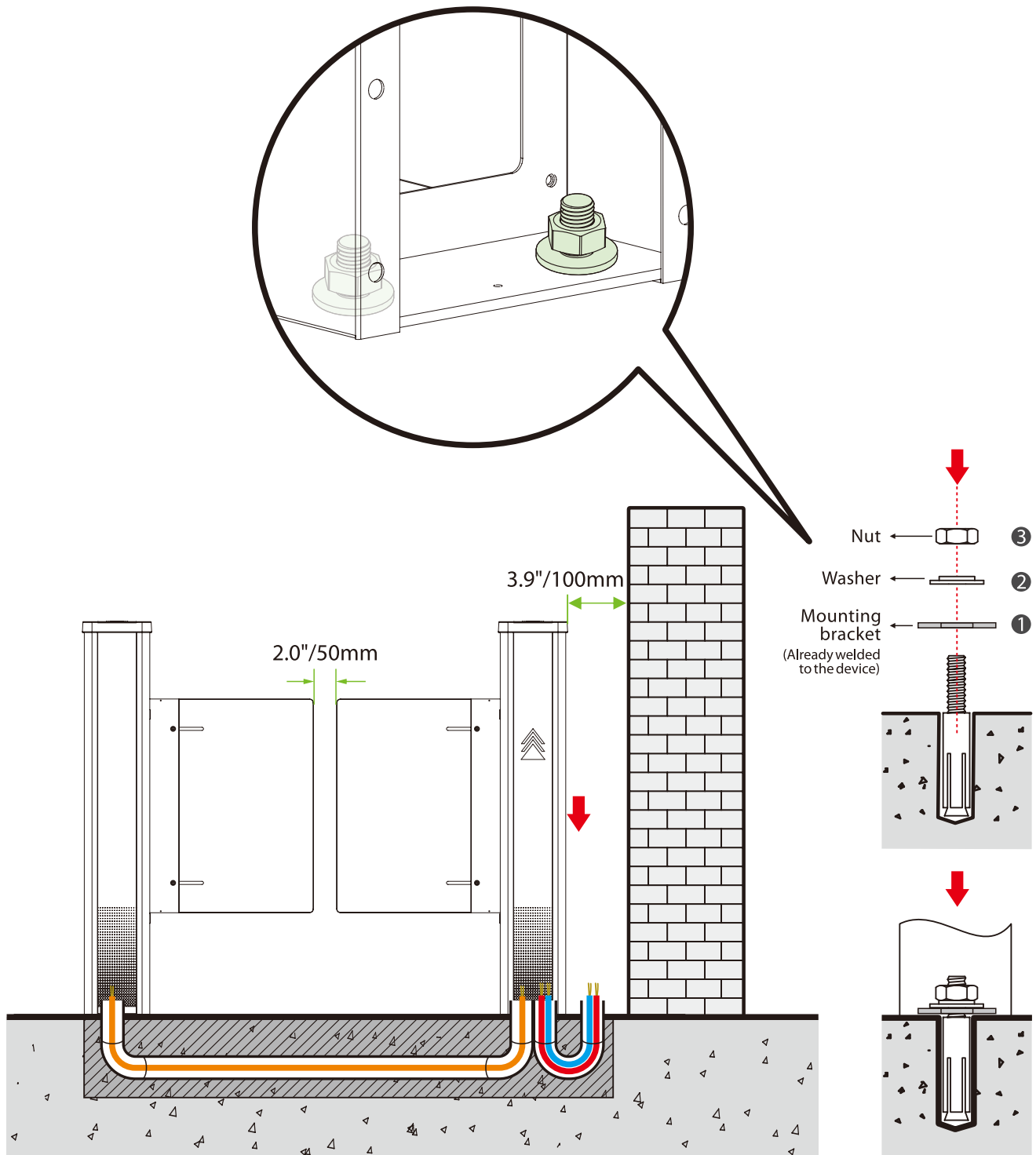
Position of the notch:



- ECU-panel connection wire
- Ethernet cable / Access control cable
- Power cable

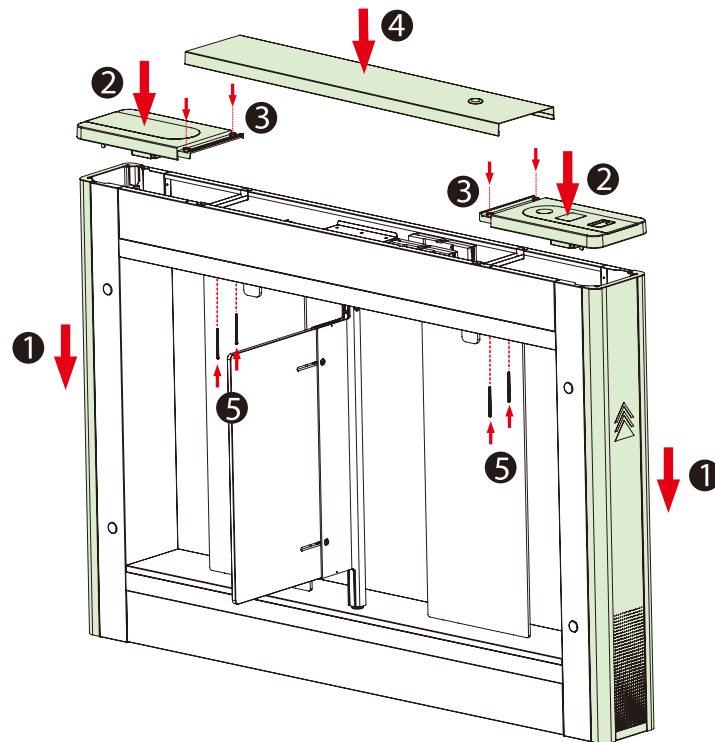
Step 7 Fixed Cabinet

1. After laying the PVC pipe, place the cabinet alignment bolts back into the mounting position.
2. Then insert the four washers and nuts into the bolts one by one.
3. Tighten the nuts to hold the cabinet in place. Don't tighten it completely until after you're sure it won't move anymore. The finished result is shown below:



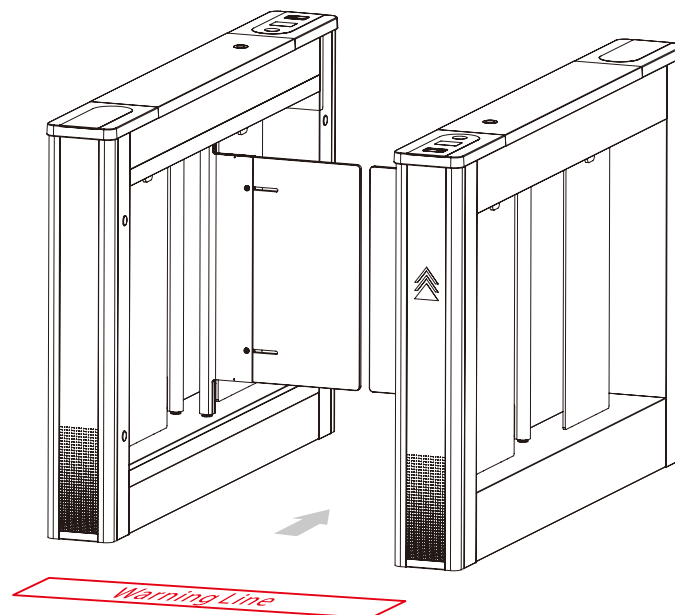
Step 8 Close the Top Lid, Swipe Panel and Side Lid

Close the top lid, swipe panel and side lid as show below, then secure the top lid with screws.

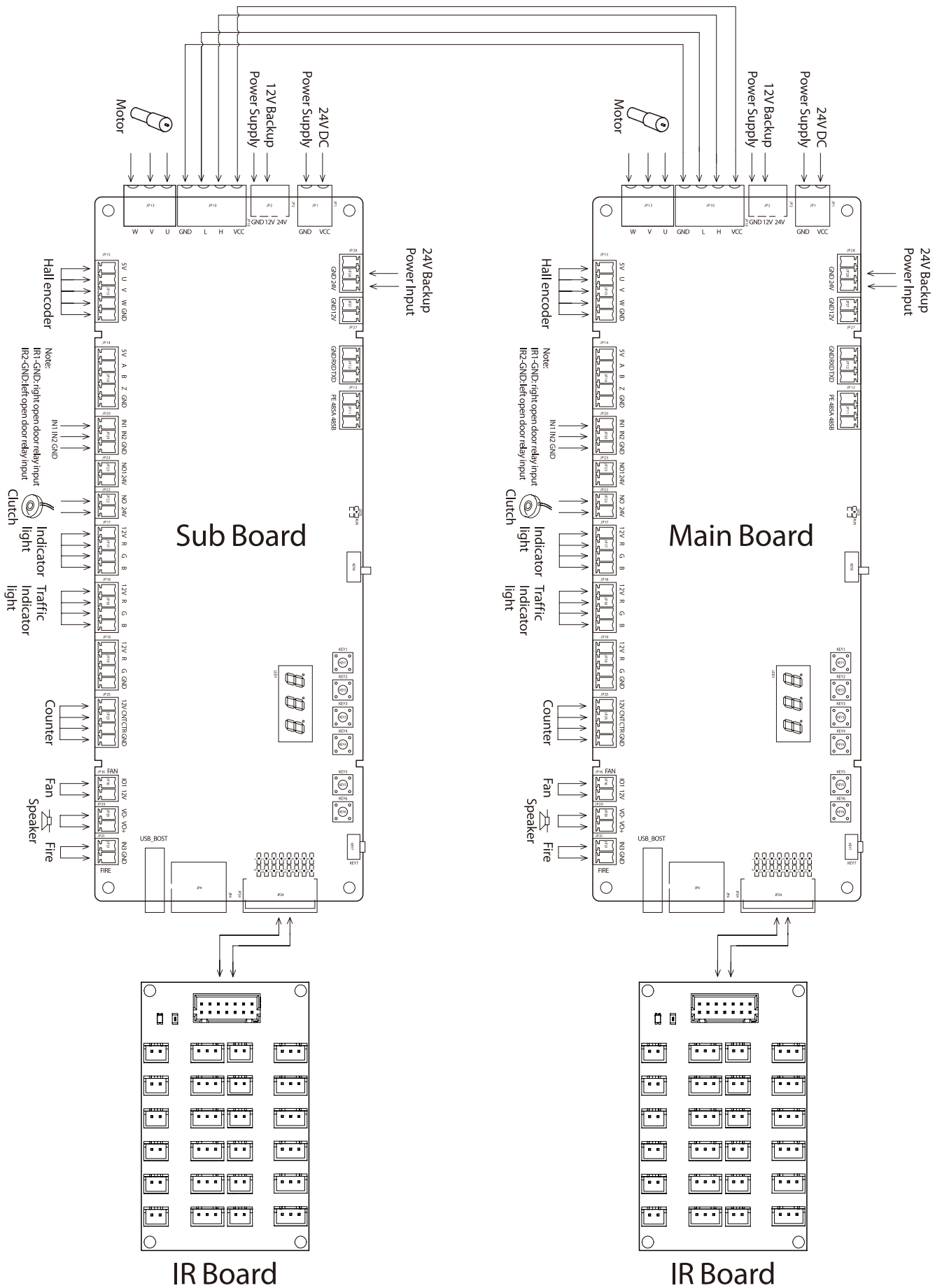


Step 9 Marking the Warning Line

1. It is recommended that warning lines be marked on the ground and used to alert users.
2. A warning line can alert users to wait outside the line until the previous user completes the verification process and passes through the turnstile.



8 Wiring Diagram



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