



E246X, E247X Series Compact Speed Gate

Device Upgrading Operation Guide

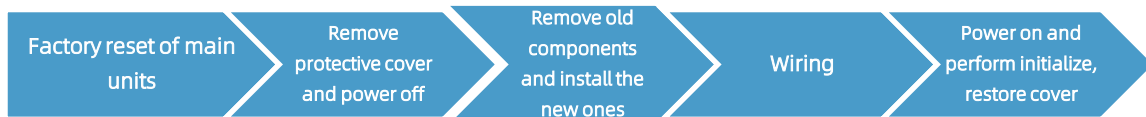
V1.0 updated on December 22, 2025



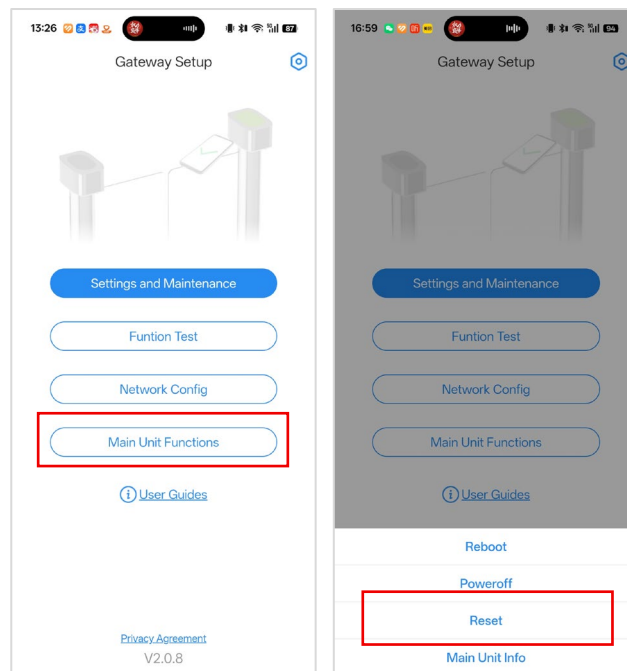
1. Basic process

This document applies to the retrofitting of E24×× series (E2472, E2473, E2462, E2463) to E25×× series hosts of Exquisite compact speed gate.

The basic process of operation is as follows:



2. Restore to Factory



Note:

- 1) Please ensure that the "Installation and Maintenance App" is updated to the latest version.
- 2) The factory reset operation must be completed within 3 minutes after the host is powered on.



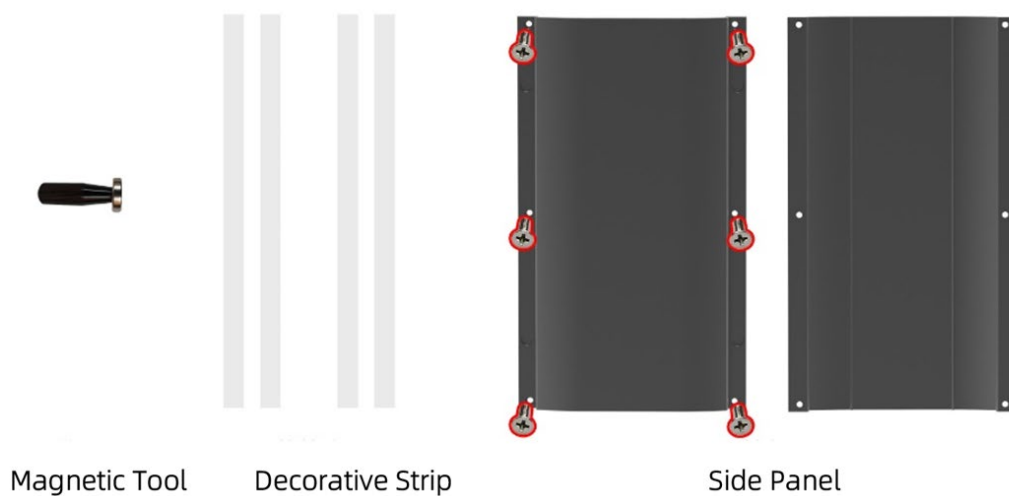
3. Remove Protective Cover and Power Off

3.1. Tools

- magnetic tool to remove the decorative strips;
- 3mm Allen wrench to remove the fixing screws of protective cover panels;
- Mini ratchet wrench + PH1;

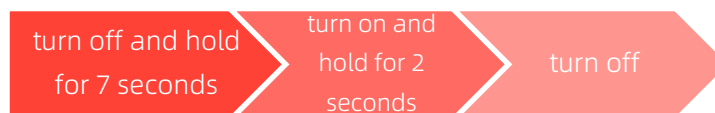
3.2. Operating Procedure

- 1) The equipment compartment is divided into the top and bottom equipment compartments, except for the different number of screws disassembled, the operation steps to open the two equipment compartments are the same;
- 2) Use **Magnetic Tool** to remove the decorative strips on both sides of the lower equipment compartment guard;
- 3) Remove the screws on both sides of the guard;
- 4) Remove the lower equipment compartment guard;
- 5) Follow steps 2)~4) to remove the top equipment compartment;





- 6) Power off: If there is no battery component installed, just turn off the air switch directly to power off; If the backup component parts is installed, turn off the air switch and hold for 7 seconds, then turn on the air switch and hold for 2 seconds (can be repeatedly retried), finally, turn off the air switch;



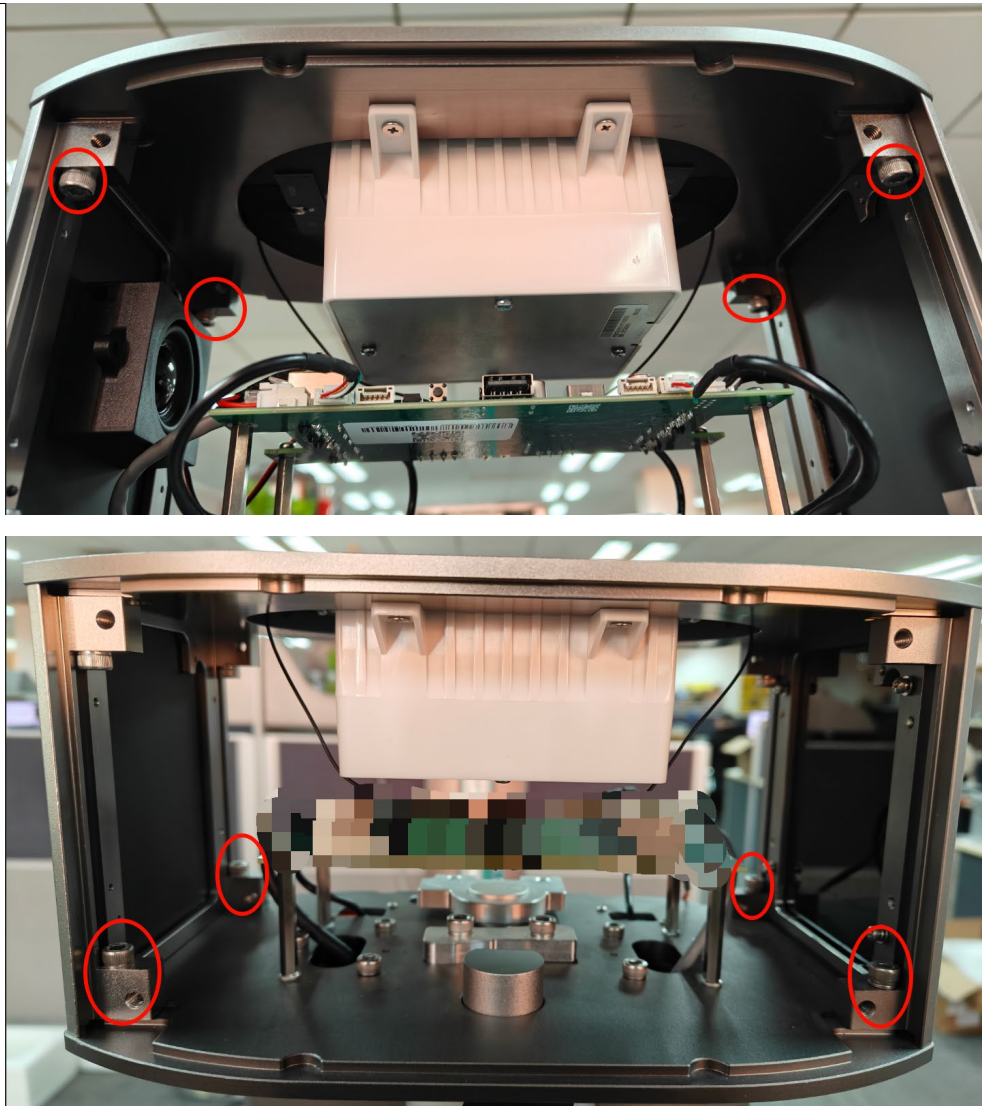
4. Removing E24 Series Components (Top Panel, PM2425FI, PM2425MC, PM2425S)

4.1. Tools

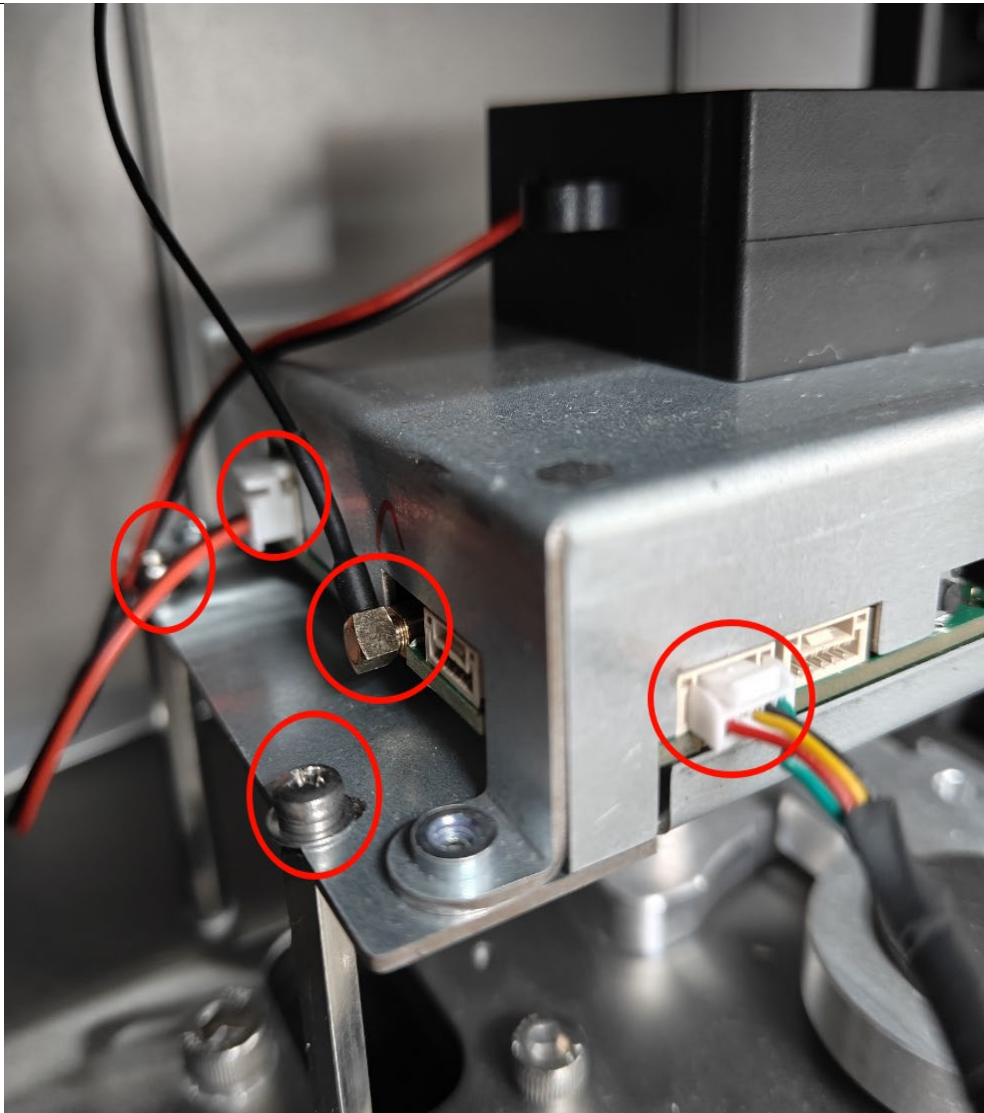
- 4mm Allen wrench;

4.2. Operating Procedure

- 1) Remove the 8 fixing screws above and below the recognition component, remove the connection wire between the recognition component and the controller, **remove the top panel and PM2425FI display recognition components;**



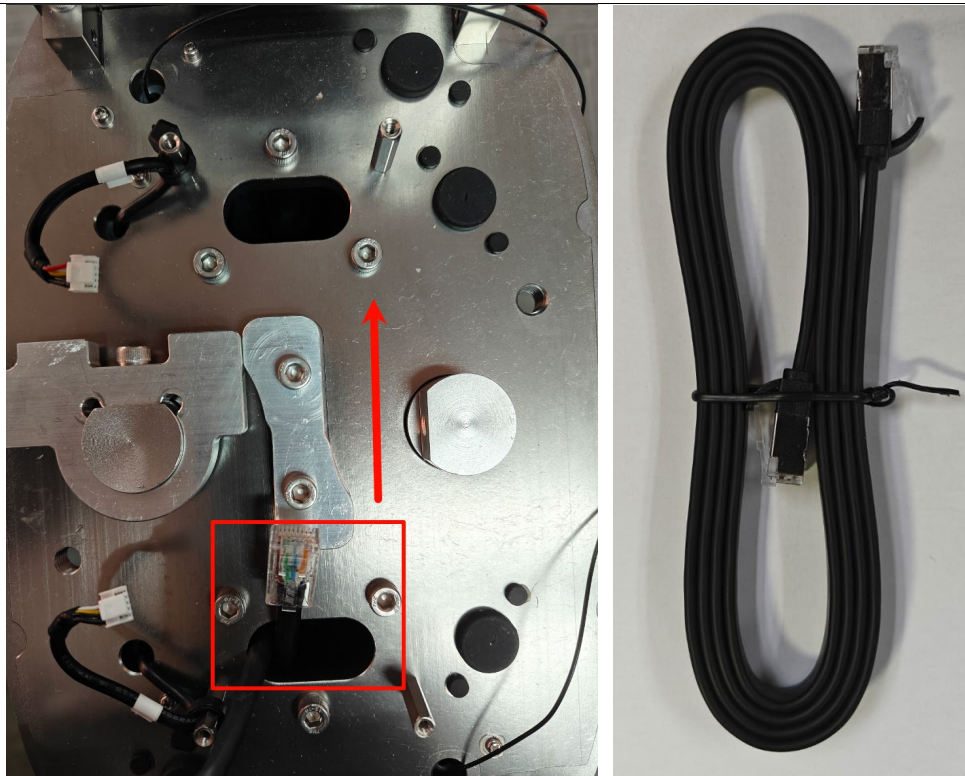
- 2) Remove the controller antenna and peripheral cables;
- 3) Remove the controller 4 fixing screws and **remove the PM2425MC controller**;



- 4) Remove all cables on PM2425S extension interface components;
- 5) Remove the 4 fixing screws of the PM2425S expansion interface assembly and remove the PM2425S interface expansion board;



- 6) Remove the Ethernet cables connecting the PM2525MC and PM2525S, and replace them with longer ones. Route the Ethernet cables to the opposite side and organize them neatly.



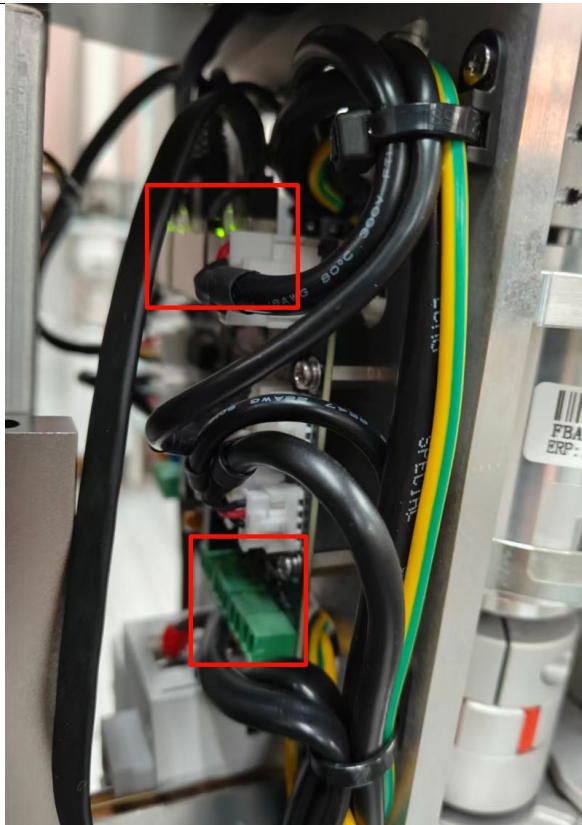
5. Installing E25 Series Components (Top Panel, PM2525FI, PM2525MC, PM2525S)

5.1. Tools

- 4mm Allen wrench;

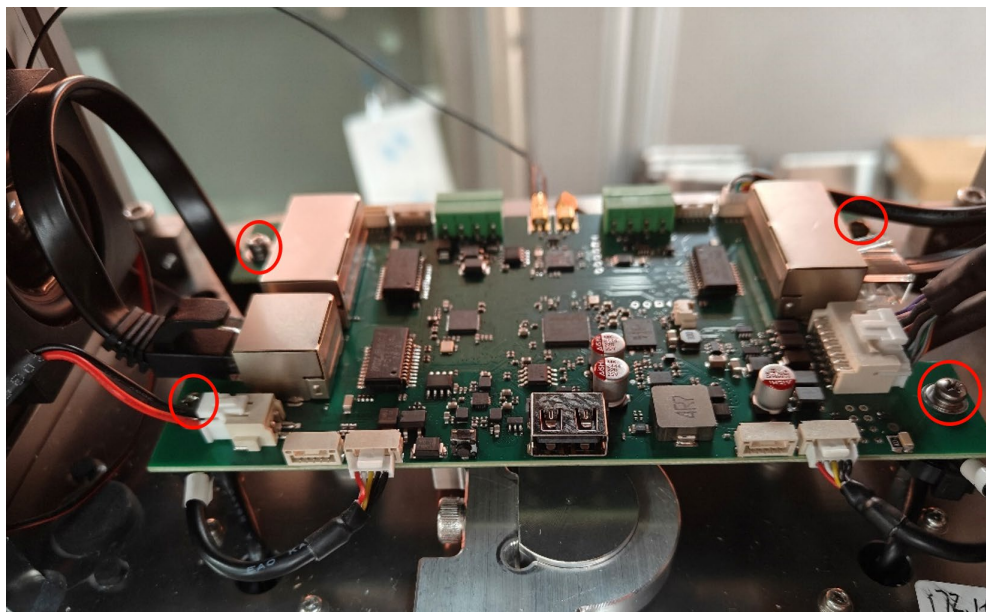
5.2. Operating Procedure

- 1) **Mounting PM2525S Extension Interface Board:** Tighten the 4 set screws of the PM2525S. **Note:** the green terminals on M2525S are facing down, and the RJ45 ports are facing up;

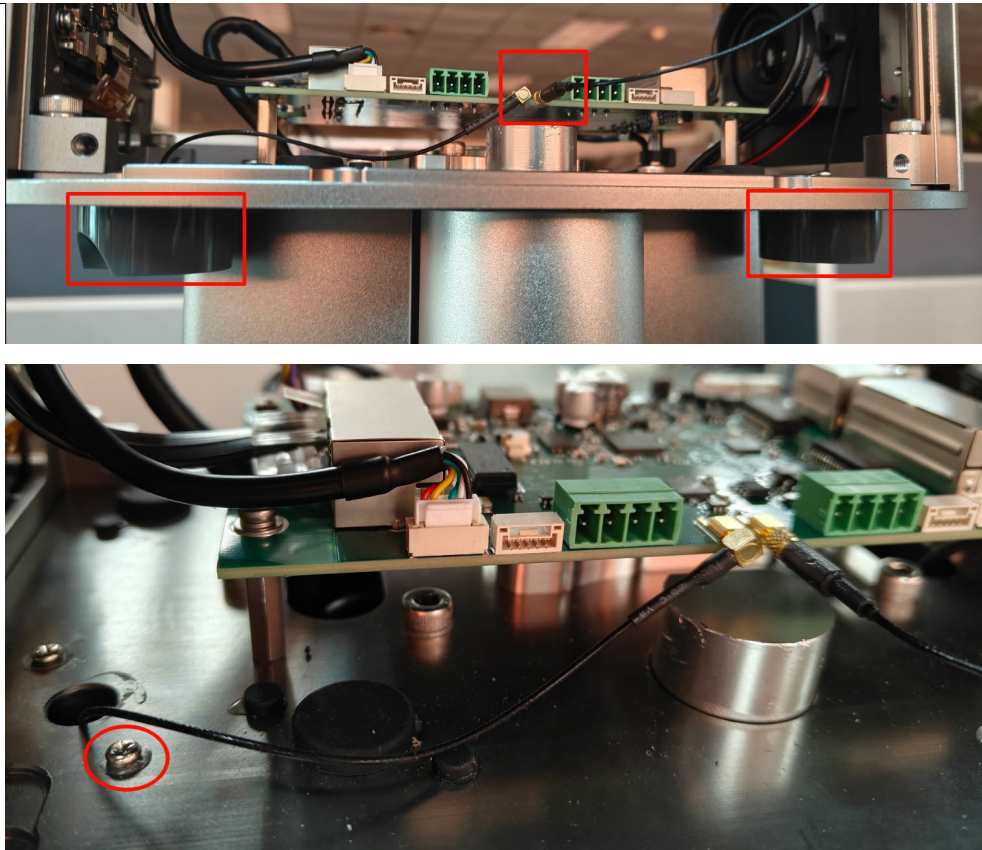


- 2) **Mounting PM2525MC controller:** Tighten the 4 set screws of the PM2525MC.

Note: The USB port on the PM2525MC is in the same direction as the handle of air switch below;



- 3) Install the antenna of the controller PM2525MC, Tighten the antenna cover screw. **Note:** Install the radomes on the same side of the antenna terminal;



4) Mounting PM2525FI display and identification components and top panels:

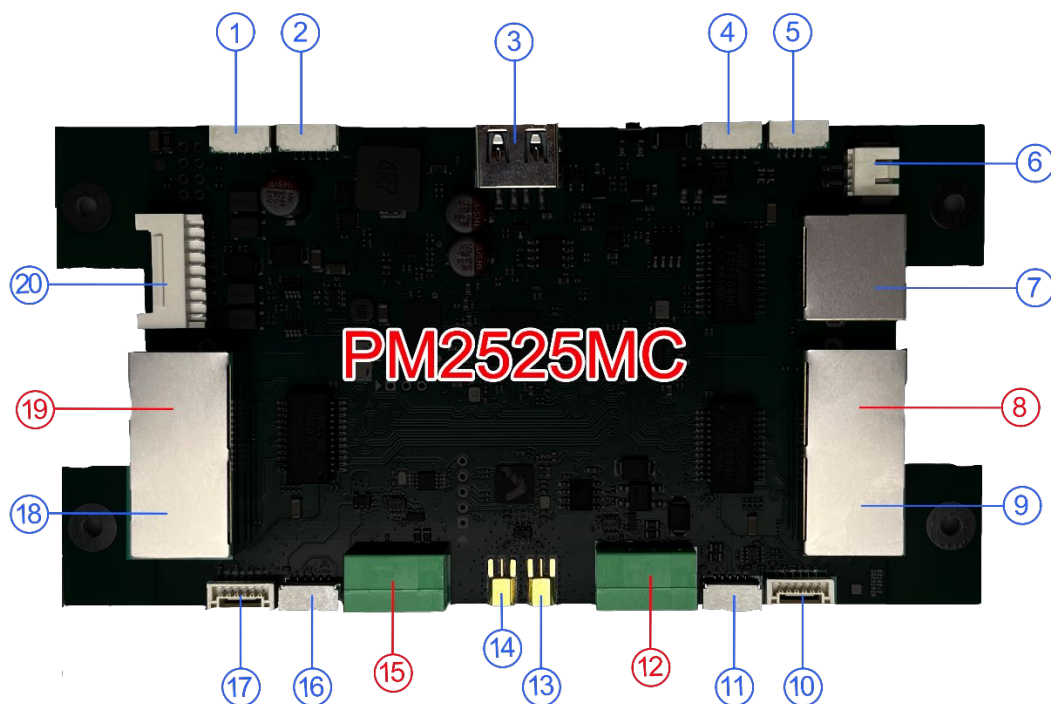
Tighten the 8 fixing screws on the PM2525FI and panels.

6. Wiring (PM2525MC、PM2525S、PM2525FI)

Please refer to the wiring instructions below to complete the wiring of the new components.



6.1. PM2525S interface expansion board wiring reference

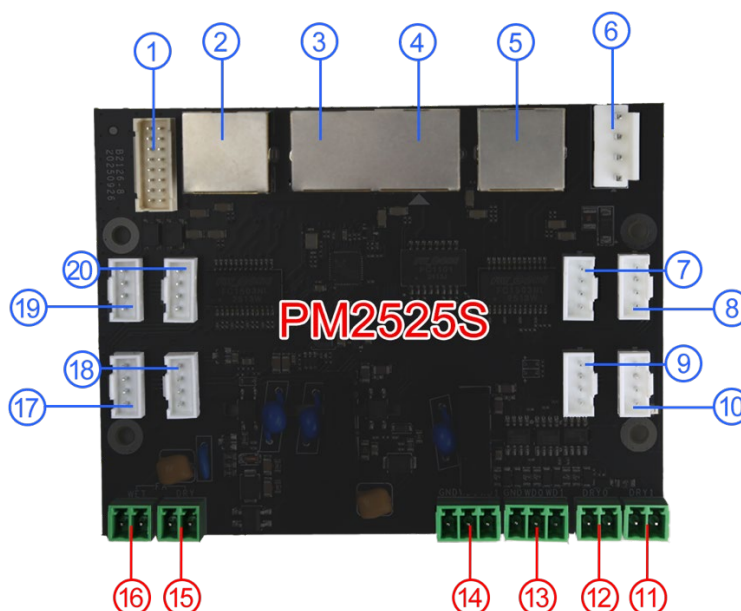


- ①. RS485, connects to PM2422H ;
- ②. RS485, connects to PM2422H ;
- ③. USB, used to update firmware;
- ④. RS485, connects to PM2422H ;
- ⑤. RS485, connects to PM2422H ;
- ⑥. terminal block, connects to buzzer;
- ⑦. RJ45, connects to PM2525S;
- ⑧. RJ45, connects to third-party card reading & access control integrated device;
- ⑨. RJ45, connects to PM2525FI;
- ⑩. Relay, connects to PM2525FI;
- ⑪. RS485, connects to PM2422H ;



- ⑫. Relay, connects to third-party card reading & access control integrated device;
- ⑬. RF coaxial connection port 0, connects to the Bluetooth antenna;
- ⑭. RF coaxial connection port 1, connects to the Bluetooth antenna;
- ⑮. Relay, connects to third-party card reading & access control integrated device;
- ⑯. RS485, connects to PM2422H ;
- ⑰. Relay, connects to PM2525FI;
- ⑱. RJ45, connects to PM2525FI;
- ⑲. RJ45, connects to third-party card reading & access control integrated device.
- ⑳. PHB-2*8 terminal block, connects to PM2525S;

6.2. PM2525MC controller wiring reference



- ①. PHB-2*8/ terminal block/DC24V/Fire in/RS485, connects to PM2525MC;
- ②. RJ45, Connect the left and right main units in a daisy-chain manner;
- ③. RJ45, connects to PM2525MC;



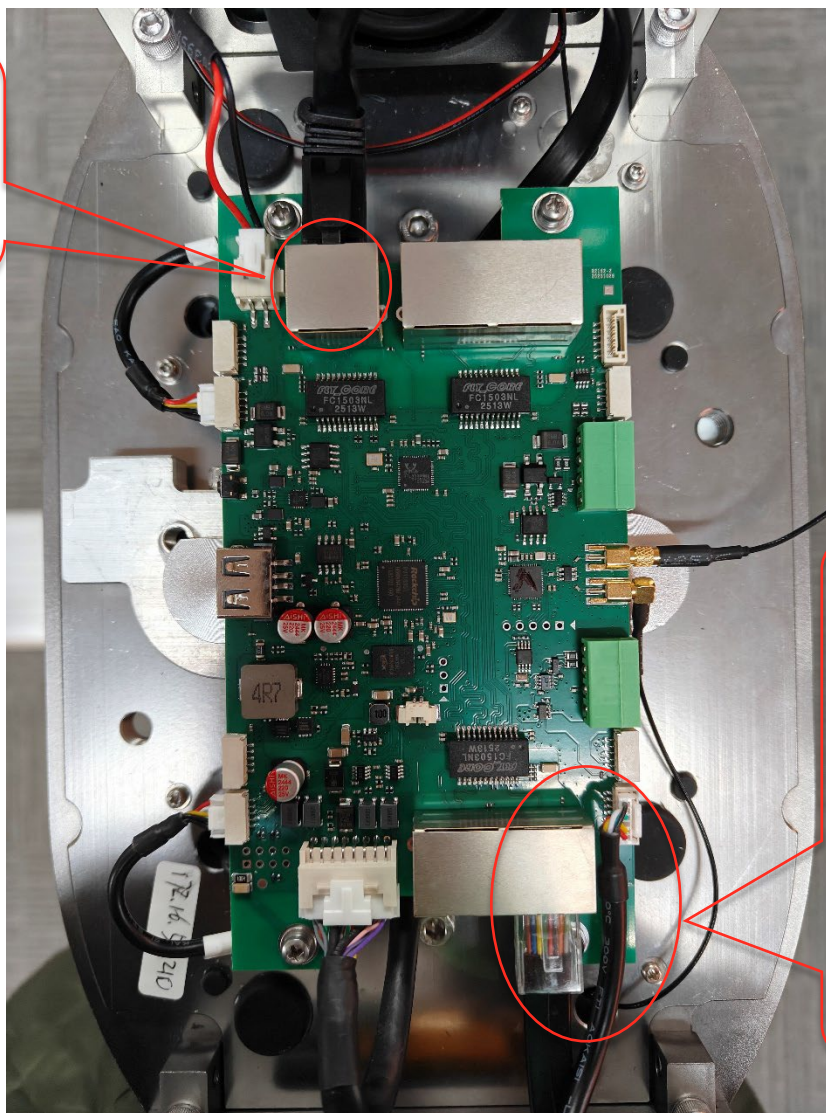
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- ④. PoE/24V/1A, Reserved for use;
 - ⑤. RJ45, Connect the left and right main units in a daisy-chain manner;
 - ⑥. VH-4P terminal block, connects to PM2427-A;
 - ⑦. RS485/DC24V, connects to PM2426-A;
 - ⑧. Reserved for use;;
 - ⑨. RS485/DC24V, connects to PM2424-A;
 - ⑩. RS485, connects to PM2420-A;
 - ⑪. Relay, connects to third-party access controller;
 - ⑫. Relay, connects to third-party access controller;
 - ⑬. Wiegand, connects to third-party access controller;
 - ⑭. Wiegand, connects to third-party access controller;
 - ⑮. Dry port, connects to fire alarm signal line;
 - ⑯. Wet port, connects to fire alarm signal line;
 - ⑰. RS485, connects to PM2420-B;
 - ⑱. RS485/DC24V, connects to PM2424-B;
 - ⑲. RS485, connects to PM2427-B;
 - ⑳. RS485/DC24V, connects to PM2426-B.



6.3. Wiring Verification Reference (E2462, E2472)

6.3.1. PM2525MC

Connect the LAN cable that connect with PM2525S here

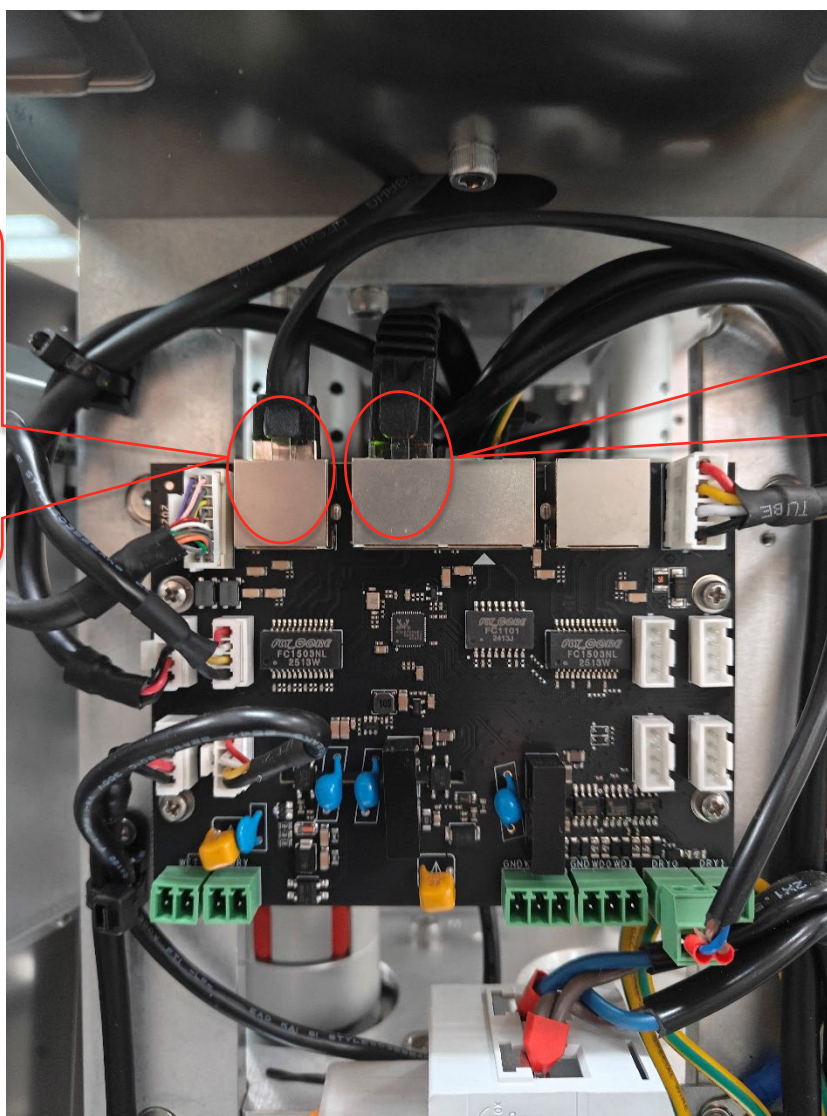


Connect the Ethernet and relay cables to the PM2525FI.
Just skip it If the PM2525FI is not installed.



6.3.2. PM2525S

Connect the LAN cable that connect with the main unit on the left side here

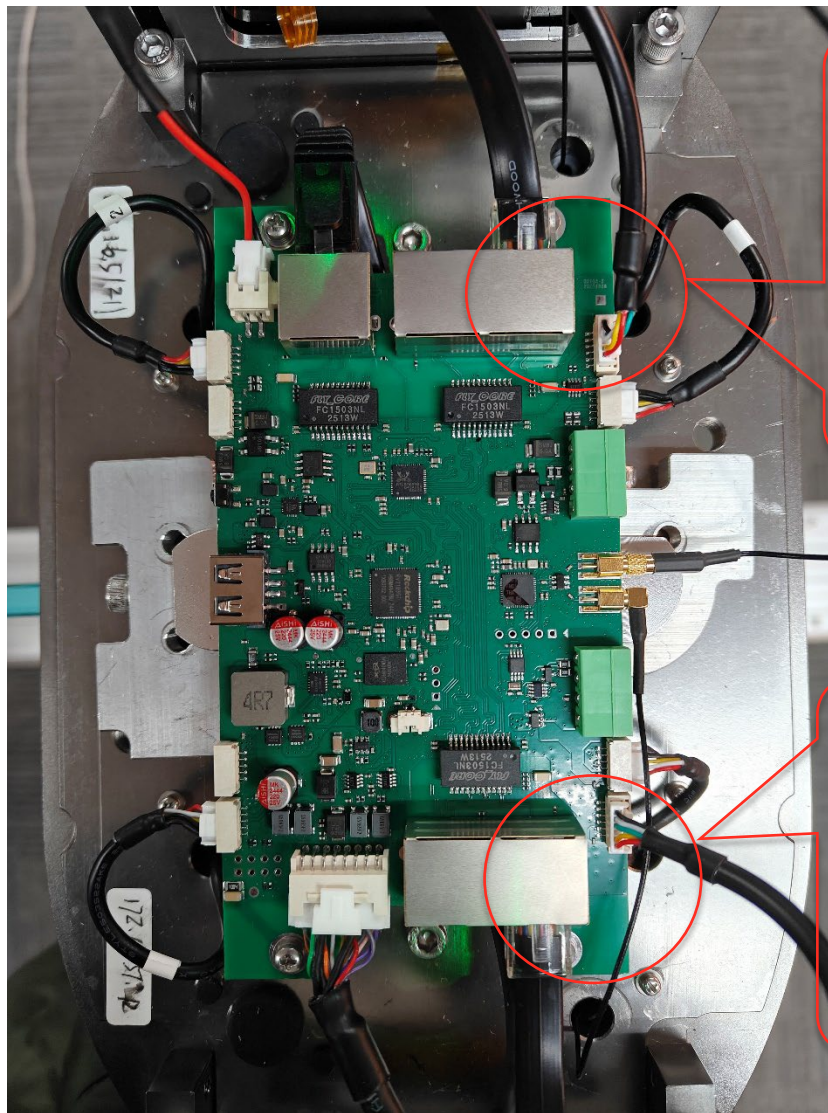


Connect the LAN cable that connect with PM2525MC



6.4. Wiring Verification Reference (E2463, E2473)

6.4.1. PM2525MC

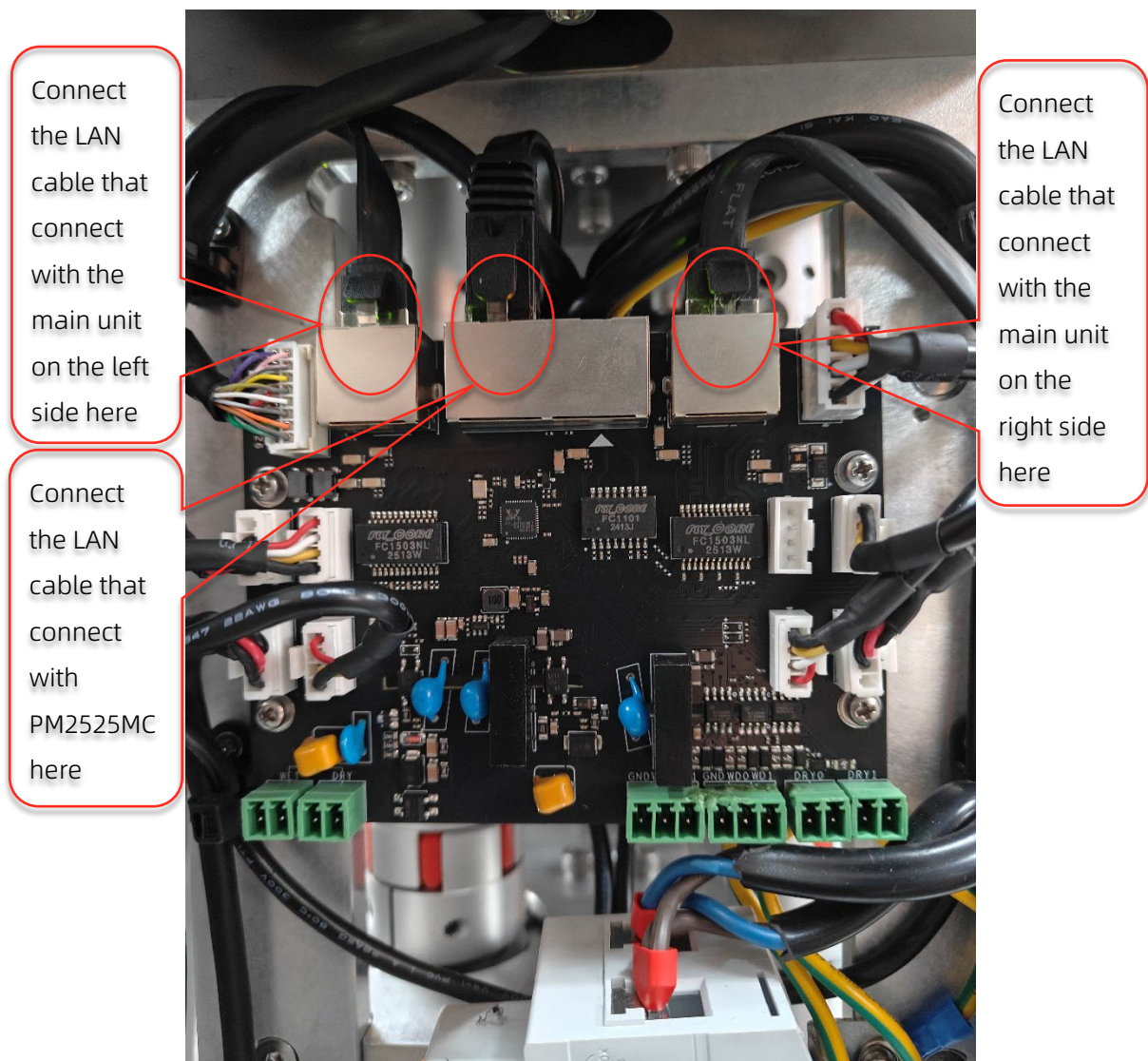


Connect the Ethernet and relay cables to the PM2525FI. Just skip it If the PM2525FI is not installed.

Connect the Ethernet and relay cables to the PM2525FI. Just skip it If the PM2525FI is not installed.



6.4.2. PM2525S



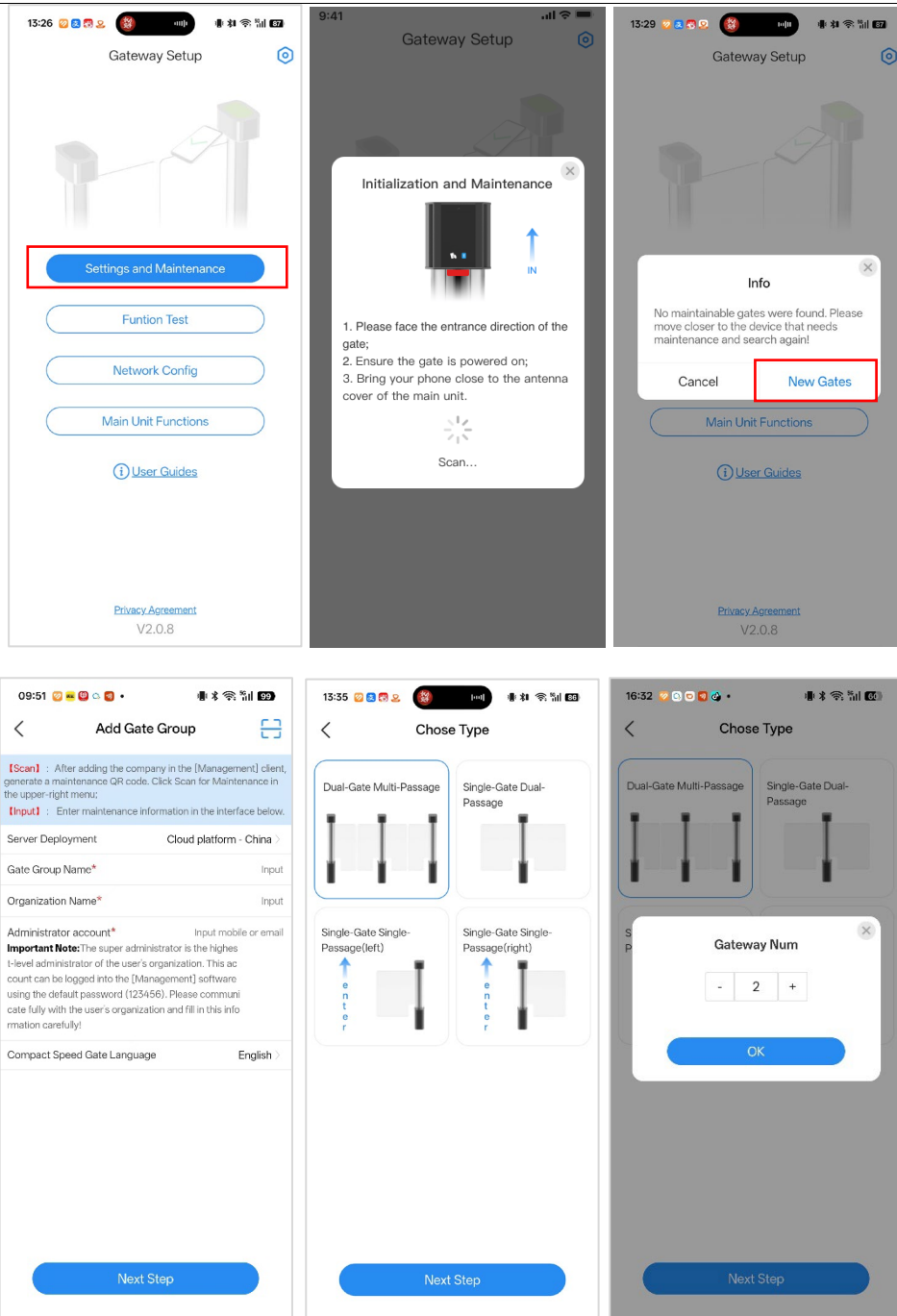
7. Power on, Initialization, and Restore the Protective Cover

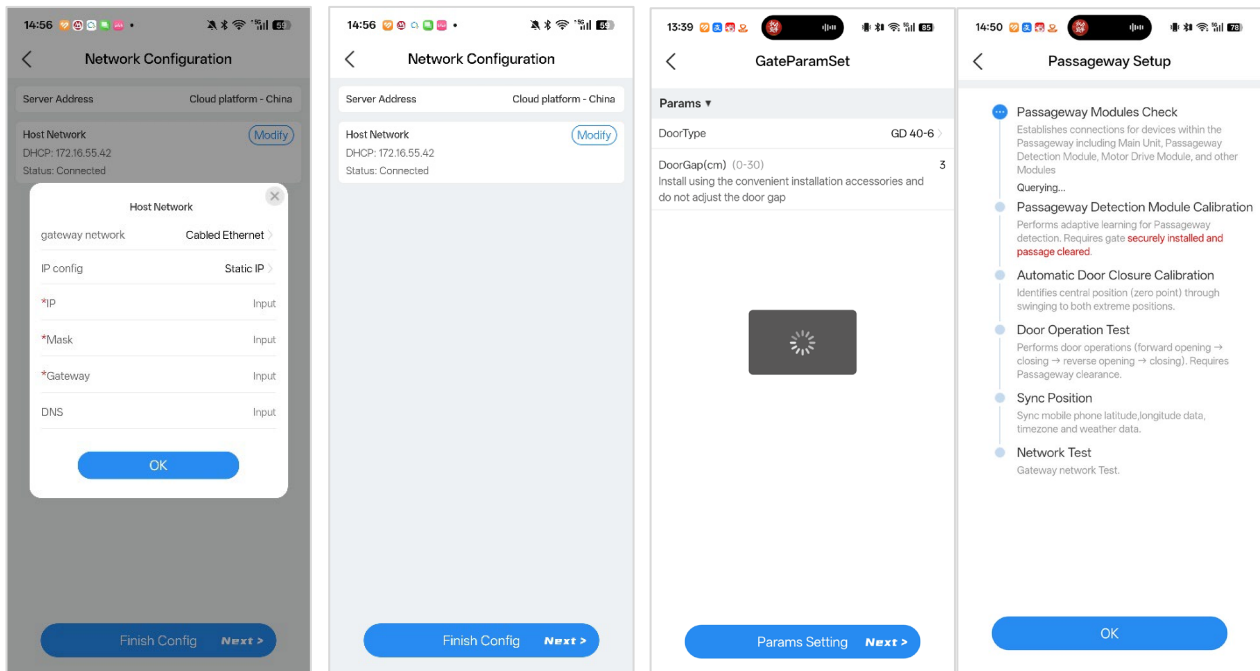
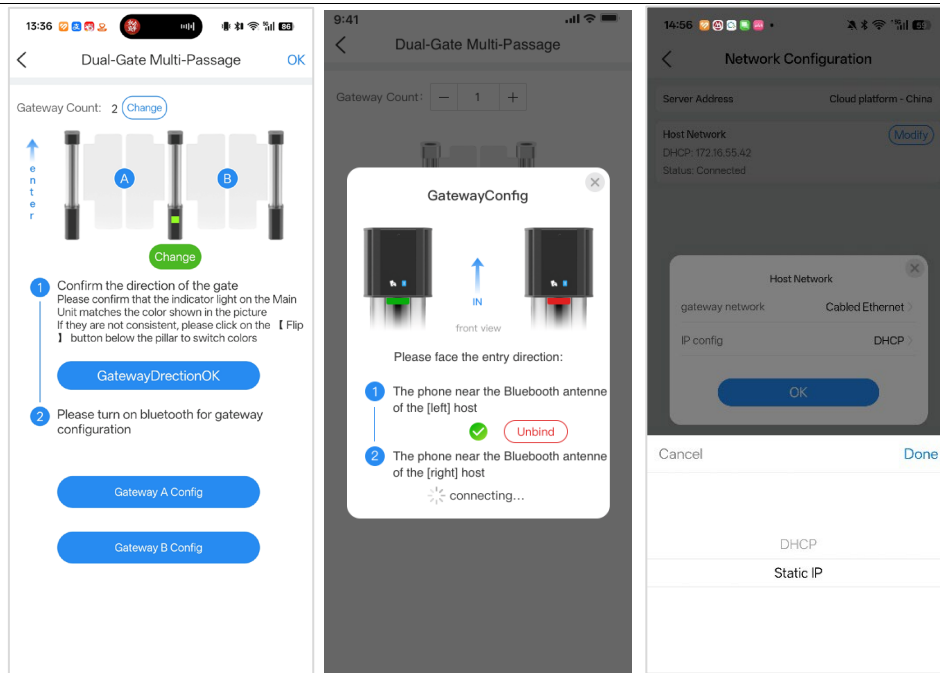
7.1. Tools

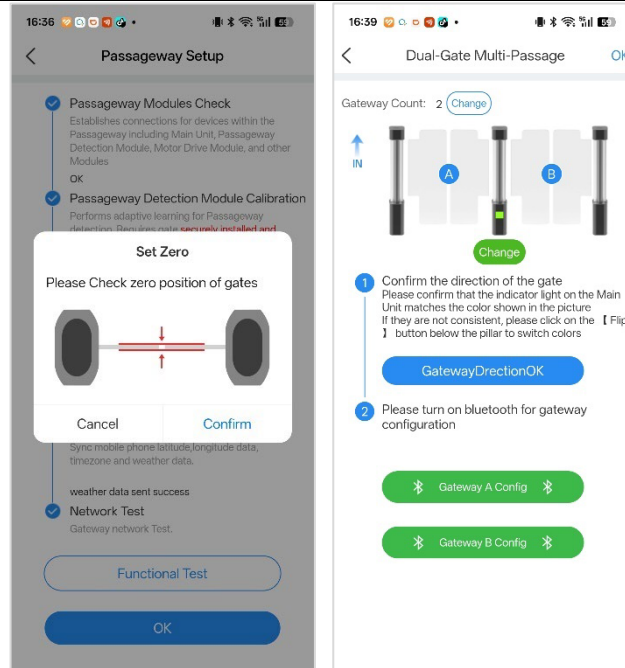
- magnetic tool to remove the trim strip;
- 3mm Allen wrench to remove the protective cover screws;

7.2. Operating Procedure

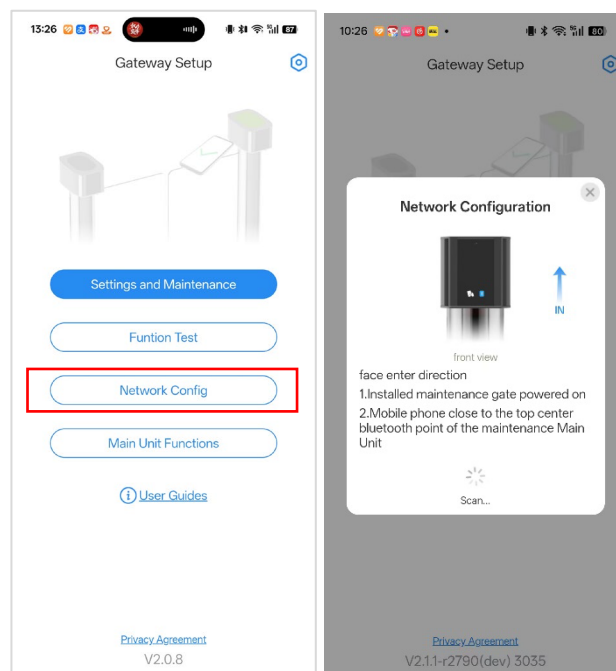
- 1) Turn on air switch to power on;
- 2) Use [Install and Maintain App] to create a new speed gate and initialize it;

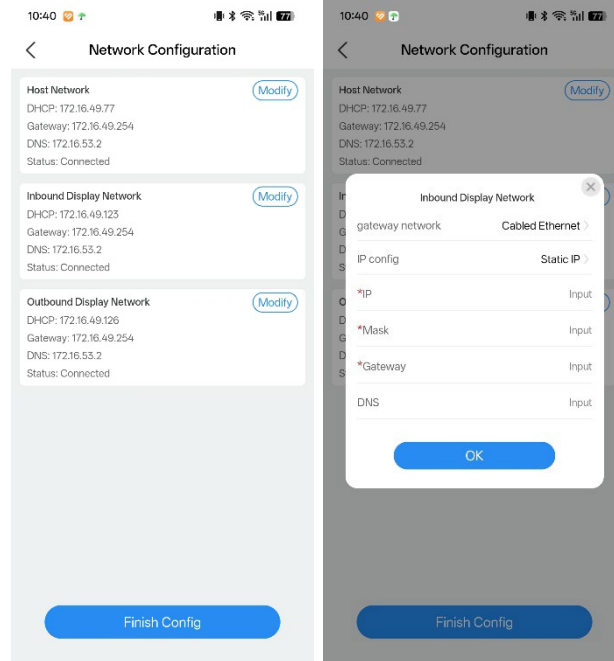






- 3) Use the network configuration feature of the [Install and Maintain App] to configure the network for the identification display component on each main unit.





- 4) Tighten all screws of the upper and lower protective cover (4 cover panels for each host, a total of 20 screws), restore cover panels, and install the decorative strips.