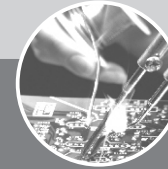


# LCD Splicing

*LCD Splicing*  
*Installation Guide*








## Foreword

### General

This manual introduces the installation of the LCD splicing device (hereinafter referred to as "the Device").

### Safety Instructions

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
 <b>DANGER</b>	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 <b>CAUTION</b>	Indicates a potential risk which, if not avoided, may result in property damage, data loss, lower performance, or unpredictable result.
 <b>TIPS</b>	Provides methods to help you solve a problem or save you time.
 <b>NOTE</b>	Provides additional information as the emphasis and supplement to the text.

### Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: Providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

### About the Manual

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.

- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

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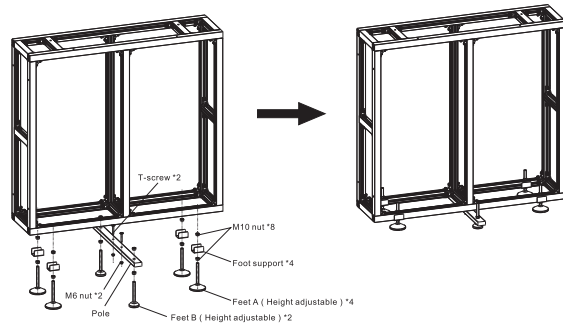
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## 1 Floor Type Rear Maintenance and Installation

### 1.1 Installation of Base

#### 1.1.1 Installation of Supporting Legs

Figure 1-1 Installation of supporting legs



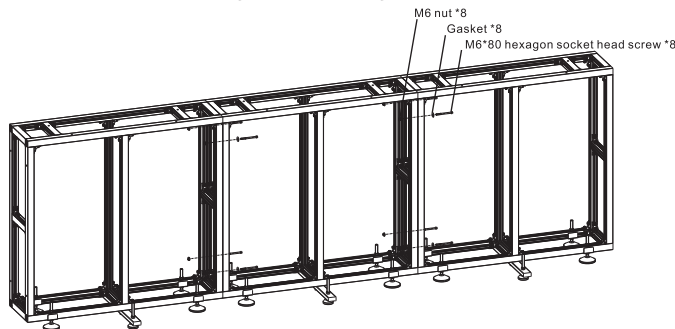
**Step 1** Four feet A, four foot supports, and eight M10 nuts are used to fix the four corners of the base.

**Step 2** Two T-screws and two M6 nuts are used to fix the middle of the stay bar and the base.

**Step 3** Two feet B and four M10 nuts are used to fix both sides of the stay bar.

#### 1.1.2 Splicing of Bases

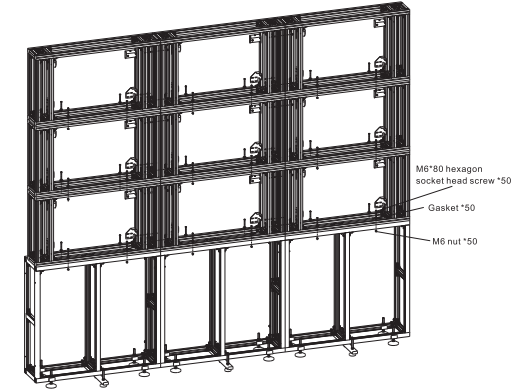
Figure 1-2 Splicing of bases



Splice the installed bases (take three bases as an example in the figure), and use eight M6 \* 80 hexagon socket head screws, eight gaskets, and eight M6 nuts to fix each two bases. According to the ground condition, properly adjust the height and inclination angle of each supporting leg to make the installation surface horizontal and flat as far as possible. (Generally, adjust the height of the supporting feet to 5 cm.)

### 1.2 Installation of Subunits

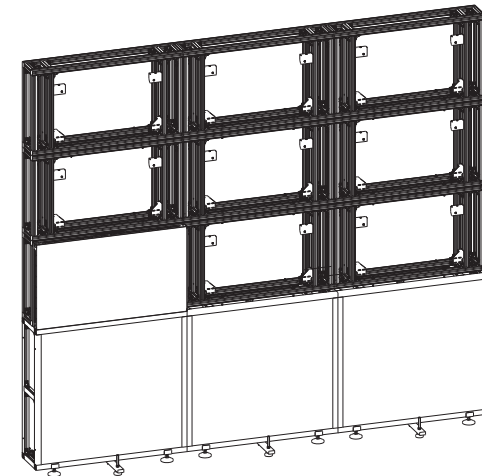
Figure 1-3 Installation of subunits



The same as the connection between bases, fix the bases and subunits adjacent to each unit up and down, left and right by using eight M6 \* 80 hexagon socket head screws, eight gaskets, and eight M6 nuts. (Reinforce the whole support, for example, connect the upper part of the support with the wall through a pull rod to prevent it from toppling over.)

### 1.3 Screen Hanging Installation

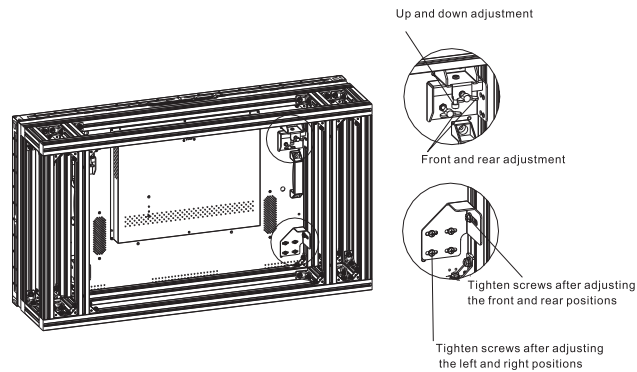
Figure 1-4 Screen hanging



Hang all splicing screens on the subunit in sequence. When hanging the screen, fasten the hook and subunit to prevent the screen from falling. (Keep the distance of one business card between the top, bottom, left, and right of each screen to prevent crushing and damage.)

## 1.4 Splicing Adjustment

Figure 1-5 Splicing adjustment

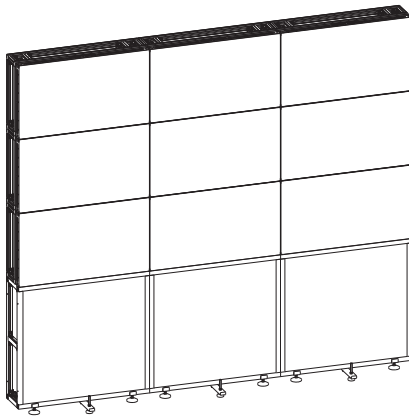


Each subunit behind the screen has four position adjustment points, taking the right side as an example.

- ① Adjust the front and rear positions at the upper right corner through two butterfly screws, and adjust the upper and lower positions through a hexagon socket head cap screw (the upper left corner is the same).
- ② Install the disc at the lower right corner, fix the screen with M5\*8 screws (do not tighten the screws for the moment), and fix the support with trapezoidal screws and nuts (do not tighten the screws for the moment). Gently push the left and right edges of the screen to adjust its positions, and fix it by tightening M5\*8 screws.
- ③ Adjust the front and rear positions of the screen by pulling the right lower disc back and forth, and tighten the nuts (the lower left corner is the same). After adjustment, install another piece until the splicing is completed.

## 1.5 Splicing Completed

Figure 1-6 Splicing completed



## 2 Floor Type Arc Installation

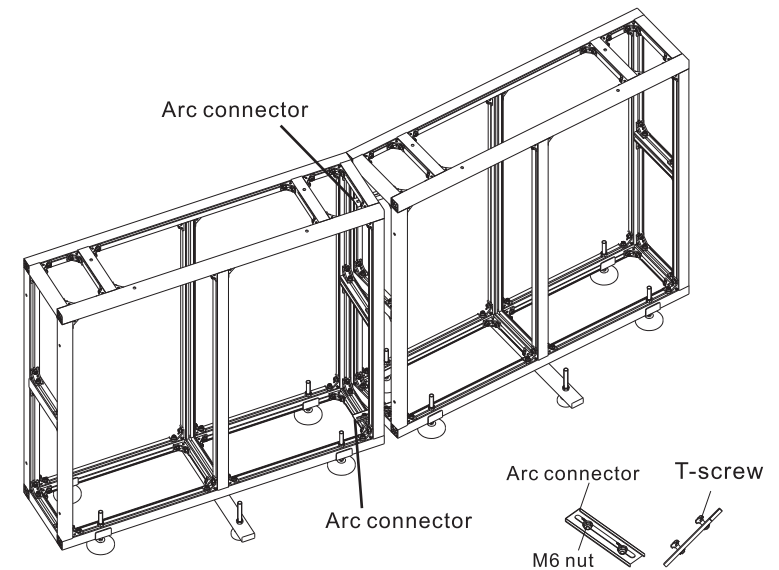
### 2.1 Base

#### 2.1.1 Installation of Supporting Legs

Refer to "1.1 Installation of Base."

#### 2.1.2 Splicing of Supporting Legs

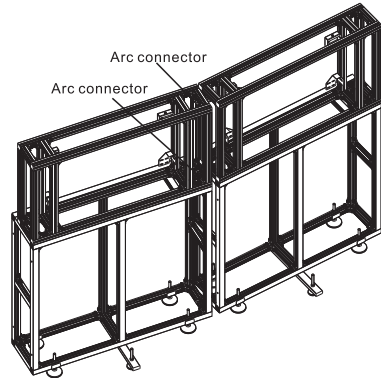
Figure 2-1 Splicing of supporting legs



Measure and select the included angle (maximum 15°) to be formed in base splicing by the protractor, fix it with arc connector, two trapezoid screws, and two M6 nuts (one set for upper position and one set for lower position). Properly adjust the height and inclination angle of each support leg according to the ground condition, so as to make the installation surface horizontal as far as possible. (Generally, adjust the height of the supporting feet to 5 cm.)

## 2.2 Installation of Subunits

Figure 2-2 Installation of subunits



The same as the connection between the bases (see arc installation), fix the bases and subunits adjacent to each unit up and down, left and right, through arc connectors, two trapezoid screws, and two M6 nuts (one set for upper position and one set for lower position). (Reinforce the support, for example, connect the upper part of the support with the wall through a pull rod to prevent it from toppling over.)

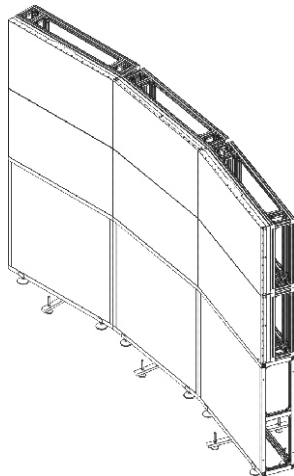
## 2.3 Screen Hanging Installation

Refer to "1.3 Screen Hanging Installation."

## 2.4 Splicing Adjustment

Refer to "1.4 Splicing Adjustment."

Figure 2-3 Splicing adjustment

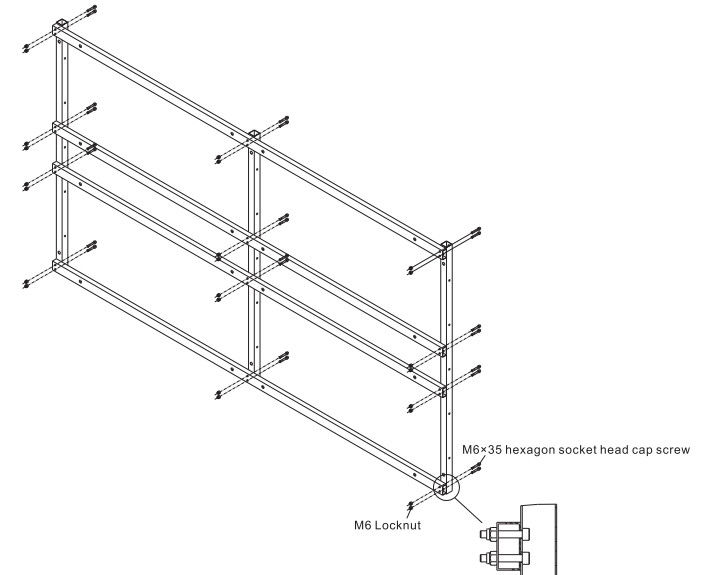


# 3 Simple Wall Mounting

## 3.1 Simple Wall Rack

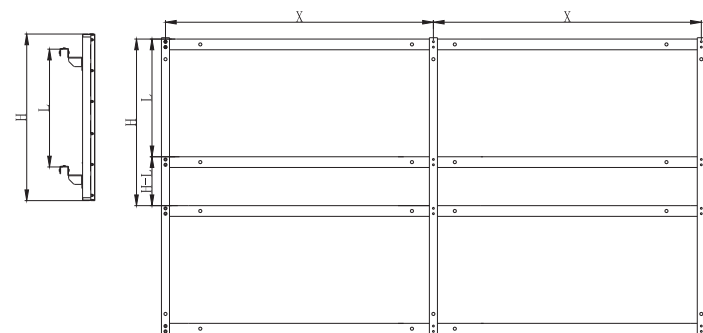
### 3.1.1 Assembling Wall Rack

Figure 3-1 Assembling wall rack (1)



Connect the wall rack and fix it with M6 locknuts and M6\*35 hexagon socket head cap screws. (Place the cross bar on the vertical bar. Do not misplace them); see above figure for the position of the cross bar.

Figure 3-2 Assembling wall rack (2)



### 3.1.2 Wall Mounting

Figure 3-3 Wall mounting (1)

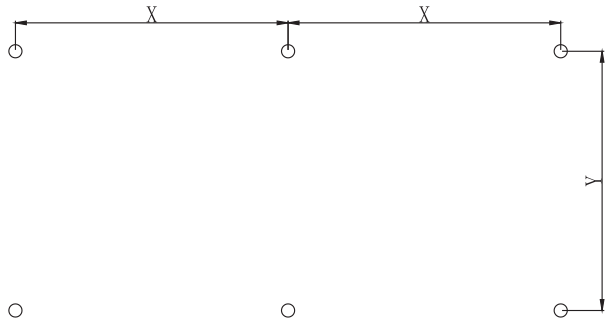
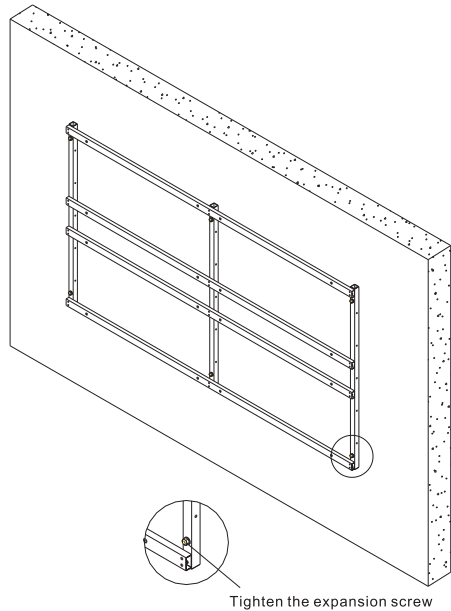


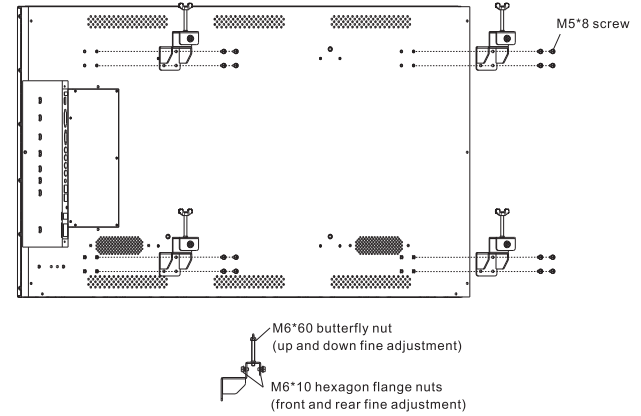
Figure 3-4 Wall mounting (2)



According to the hole position, drill six  $\phi 15$  mm holes of not less than 10 cm deep in the wall in advance. Mount the assembled wall rack on the perforated wall surface and fix it with M10\*120 expansion screws.

### 3.2 Screen Hook Installation

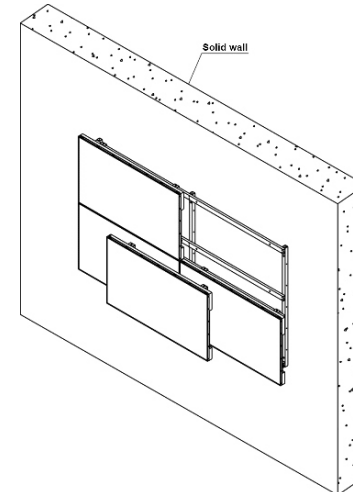
Figure 3-5 Screen hook installation



Install the hooks to the corresponding position of the screen, fix them with M5\*8 screws. Then install M6\*60 butterfly screws and M6\*10 screws. (Butterfly screws are used for upper and lower fine adjustment; M6\*10 screws are used for forward and backward fine adjustment.)

### 3.3 Splicing Completed

Figure 3-6 Splicing completed



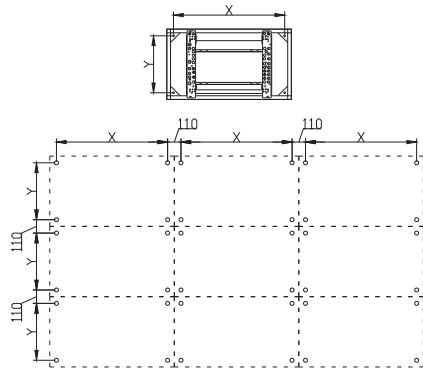
After the hooks are installed, hang the screens one by one to the wall rack, and adjust M6\*60 butterfly screws and M6\*10 screws mentioned in "3.2 Screen Hook Installation." Then adjust the top, bottom, left and right of the screen until the splicing is completed.

## 4 ES/EG Installation through Front Maintenance

### 4.1 Bracket Installation

#### 4.1.1 Wall Drilling

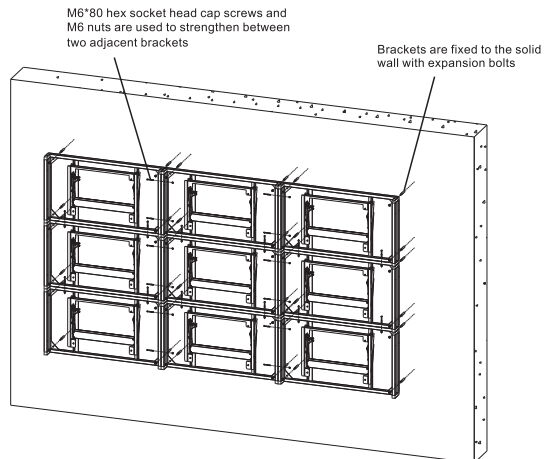
Figure 4-1 Wall drilling (unit: mm)



Drill  $\phi 15$  mm holes of not less than 10 cm deep in the wall according to the positions.

#### 4.1.2 Mounting Wall Rack

Figure 4-2 Mounting wall rack

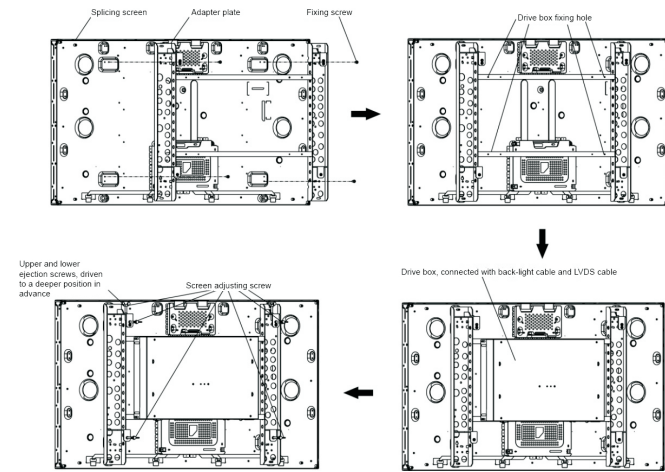


Fix the brackets on the wall with M10\*120 expansion screws. Fix the brackets to each other with M6\*80 screws and M6 nuts.

### 4.2 Screen Installation

#### 4.2.1 Installing Drive Box

Figure 4-3 Installing drive box

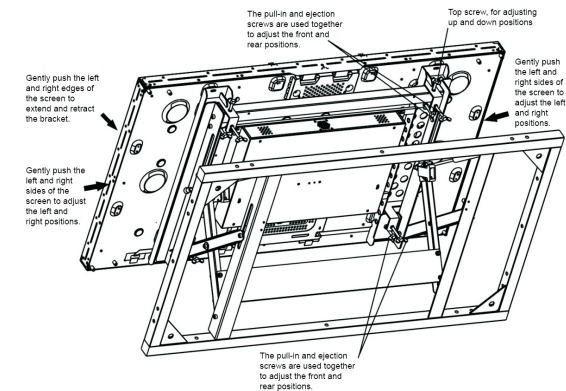


Assemble the adapter plate and splicing screen into one assembly. Many holes are reserved on the adapter plate to match different types of splicing screens. During assembling, place the screen on clean foam with the back upward. Place the adapter plate on the back of the splicing screen, in the horizontal center. Then move the plate up and down to align the holes and tighten the screws.

Connect the back-light cable and LVDS cable to the screen. Then screw the six screen adjusting screws (butterfly) onto the adapter plate. Note that the upper and lower ejection screws should be screwed to a deeper position to prevent the lower edge of the screen from colliding with the lower screen in hanging.

#### 4.2.2 Screen Hanging

Figure 4-4 Screen hanging

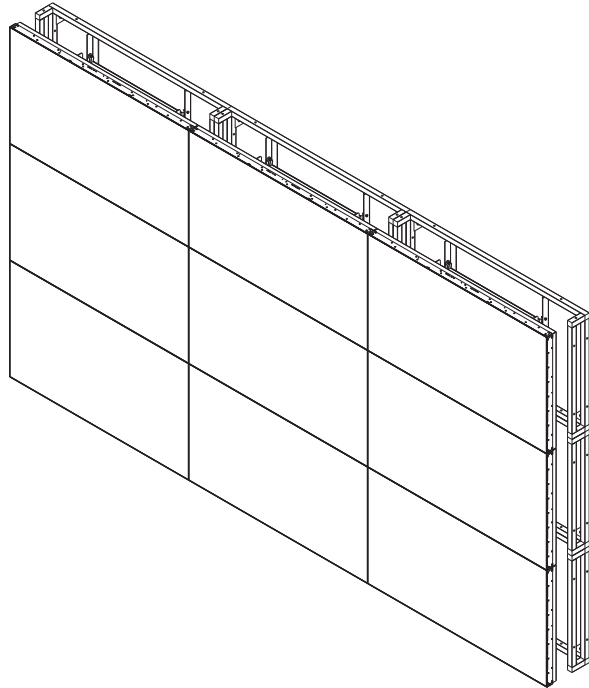




Hang the screens from bottom to top, and left to right. Press the corresponding front maintenance bracket to eject it. Then hang the splicing screen assembly with the adapter plate, drive box, and screen adjusting screws on the corresponding bracket. After the screen is hung up, adjust the position of the screen. Each front maintenance LCD splicing unit has four screen adjustment points: upper left, upper right, lower left, and lower right. The upper two points are used to adjust up-down and front-rear positions, while the lower two points are only used to adjust front-rear positions. The following figure shows the screen adjustment of a front maintenance LCD splicing unit. Adjust the screen up and down, then left and right (gently push the left and right sides of the screen), and front and rear. During screen adjustment, the front maintenance brackets will be retracted and extended many times (gently push the left and right edges of splicing screens). This process must be carried out slowly and carefully.

### 4.3 Splicing Completed

Figure 4-5 Splicing completed



## 5 EF Installation through Front Maintenance

### 5.1 Wall Drilling

Refer to "4.1.1 Wall Drilling."

### 5.2 Mounting Wall Rack

#### 5.2.1 Front Maintenance Bracket

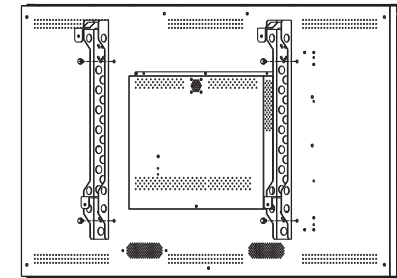
Refer to "4.1.2 Mounting Wall Rack."

### 5.3 Screen Installation

#### 5.3.1 Hook Installation

Figure 5-1 Hook installation

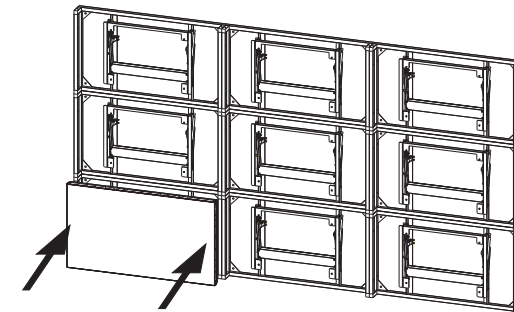
Fix two hooks to the screen with the M6\*10 external hexagonal screws



Fix two hooks on the front maintenance bracket to the screen and install the butterfly screws for adjustment in subsequent steps.

#### 5.3.2 Screen Wall Mounting

Figure 5-2 Screen wall mounting

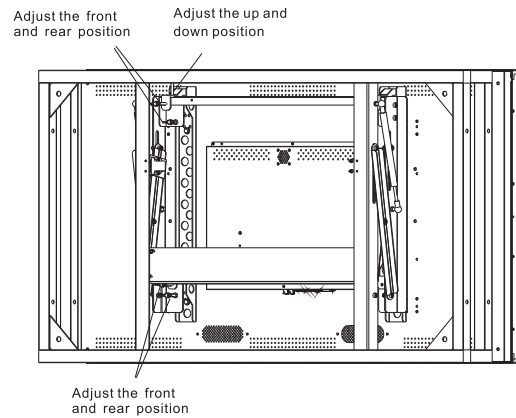


Push the edge of the screen to pop up or retract

After the hooks are fixed, hangs the splicing screen to the front maintenance bracket (note: push the LCD screen with even forces and protect the screen surface).

### 5.3.3 Splicing Adjustment

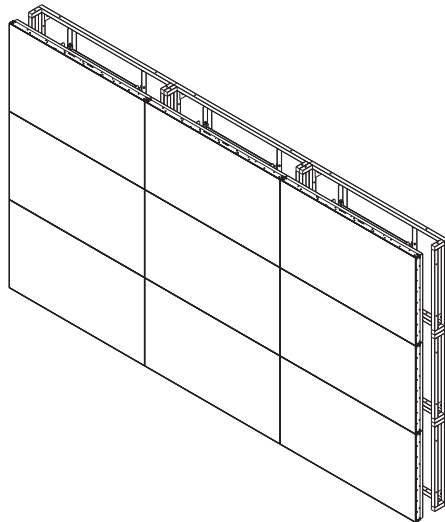
Figure 5-3 Splicing adjustment



After hanging the screen, adjust the front-rear, up-down, and left-right positions of the screen through the butterfly screw of the adjusting piece on the back of the screen. Hang the screens and make adjustments in sequence until the splicing is completed.

### 5.4 Splicing Completed

Figure 5-4 Splicing completed



The splicing is completed.