SAMSUNG

User Manual

Frame KIT VG-LFH15FWA VG-LFH20FWA VG-LFH25FWA

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

Table of contents

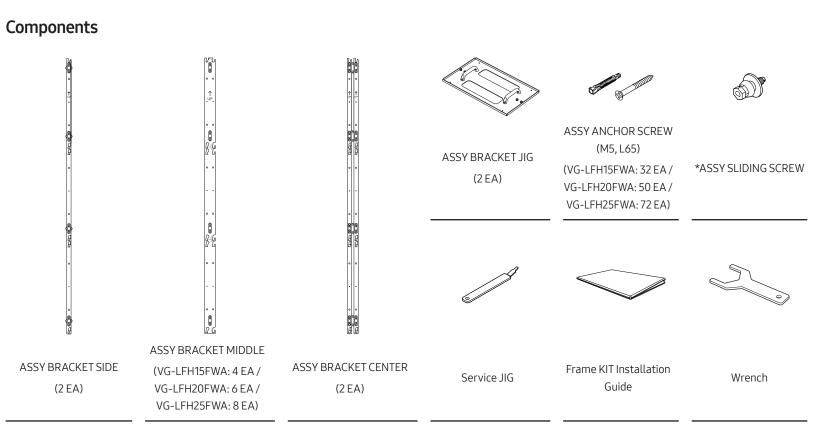
Installing Frame KIT

Checking the Components	3
Components	3
Checking the wall when screwing is used	4
Installing Frame KIT	6
Cabinet data flow	
Cabinet installation procedure	
Installing a cabinet onto Frame KIT	
Adjusting the frame spacing and height	16
Adjusting the frame spacing	16
Adjusting the cabinet spacing	16
Adjusting the Frame Z-Bolt height	17

Installing Frame KIT

Checking the Components

- Contact the vendor where you purchased the product if any components are missing.
- The pictures may look different from the actual components.
- One additional ASSY BRACKET CENTER is provided as spare.
- * ASSY SLIDING SCREW is supplied as a component of the SAMSUNG LED Signage product.

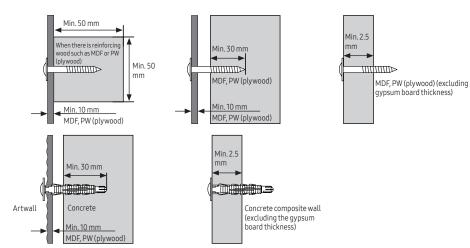


Checking the wall when screwing is used

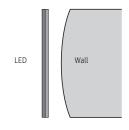
Standard Installation Requirements by Wall Type

⚠ Check the wall type before installing.

• Can only be mounted on a concrete or interior wall of sufficient thickness. See the diagrams below.

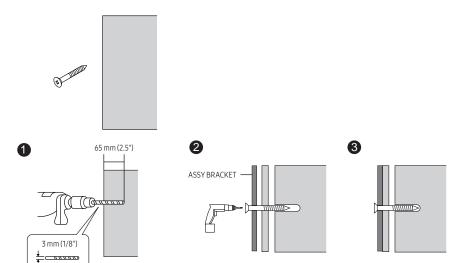


- MDF = Medium Density Fiberboard
 PW = Plywood
- First, check the wall conditions (type, thickness, and floor plan). If the wall surface is not completely flat, gaps may form after installation.

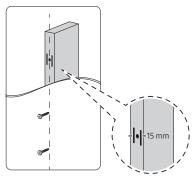


- 1 65 mm (2.5") of m (()) 9 mm (3/8") ASSY ANCHOR SCREW +_____ 2 3 4 6 ASSY BRACKET / _____ h
- 2. Walls made of gypsum board with wood studs or MDF

1. Walls made of thick enough concrete



Installation Requirements



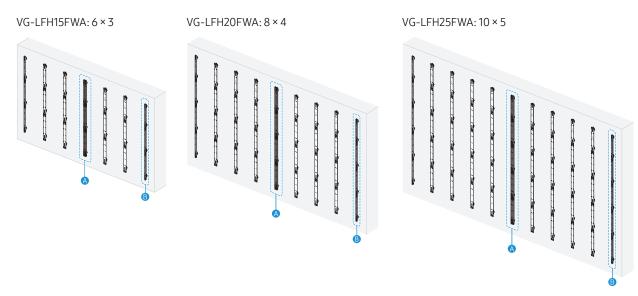
- Be sure to check the location of wooden studs in the wall before installing screws.
- Minimum wood stud size: 51 × 102 mm (2 × 4 in)
- Make holes (3 mm) first before installing screws.
- Holes for screws must be made at the center of studs.
- Wood may split when attaching the TV if holes are not made.
- A standard stud distance of 16" is supported. (24" is not supported)
- ▲ Samsung is not responsible for problems that arise when the installation guide is not followed.

Installing Frame KIT

- The installation instructions are given based on the VG-LFH15FWA model. Apply them correctly according to your model.
- Check the product model as well as the enclosed user manual for each product and check that the wall allows mounting.
- Be sure the wall is stable. If the wall is weak, reinforce it before installation.
- If the wall is not cement, check with a specialist to determine whether the product may be installed on it.
- Consult an expert installer if you do not have any background knowledge about the wall you want to install the product on.

- To maintain product performance and prevent malfunctions, do not install in the following locations.
- Places where there is a risk of vibration or shock: The product may fall and be damaged.
- Next to a sprinkler sensor: When the sensor detects any heat from the product, the sprinklers may
 get activated.
- Near high-pressure cables: The product may get interfered by high-pressure cables. In this case, the screen may not display correctly.
- Near heaters: The product may become overheated and malfunction.

Basic installation examples by model



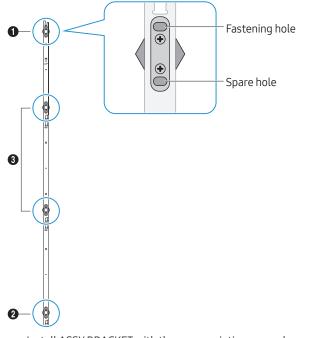
• Cabinet installation layout and screen size by Frame KIT model

Frame KIT model	Cabinet installation layout	Screen size (mm)
VG-LFH15FWA	6×3	2880 × 1620
VG-LFH20FWA	8 × 4	3840 × 2160
VG-LFH25FWA	10 × 5	4800 × 2700

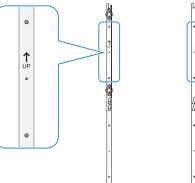
 When installing 2 or more Frame KITs to extend the cabinet installation layout, install them with ASSY BRACKET CENTER instead of ASSY BRACKET SIDE.

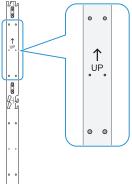
When extending the cabinet installation layout, refer to the figures in Basic installation examples by model.

- 1. Install ASSY BRACET SIDEs sequentially from the left.
- Align each ASSY BRACET SIDE vertically using a vertical leveler, and then fasten ASSY ANCHOR SCREWs in order of 1 → 2 → 3.

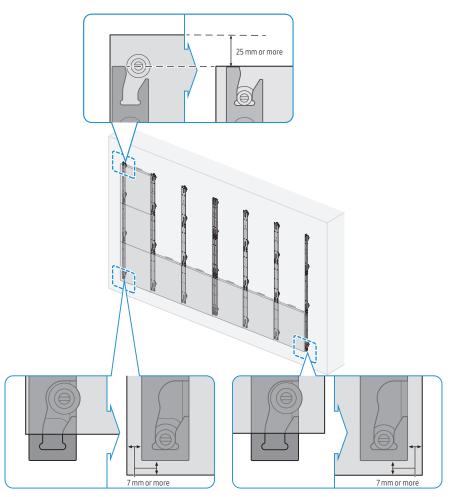


• Install ASSY BRACKET with the arrow pointing upward.

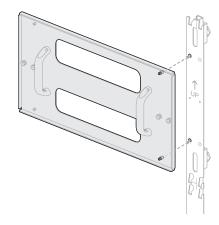




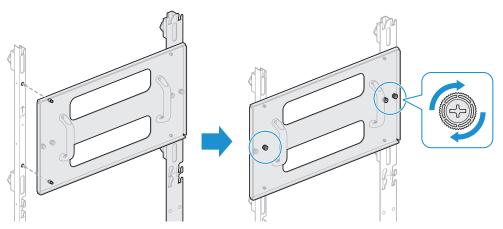
• Assemble the frame kit in a diagonal sliding direction. For ease of assembly, be sure to give a gap of over 7 mm.



2. Insert ASSY BRACKET JIG into the ASSY BRACKET MIDDLE hole to which the JIG will be fixed.



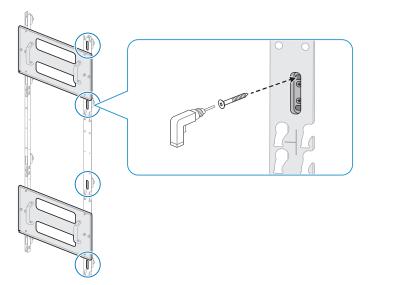
3. Secure ASSY BRACKET JIG to the holes on ASSY BRACKET already installed, and then fasten the screws on ASSY BRACKET JIG.



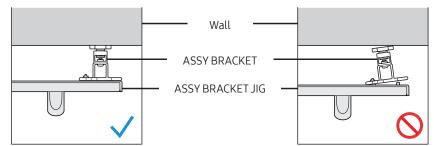
• Number of fastening screws on ASSY BRACKET JIG by ASSY BRACKET

ASSY BRACKET SIDE	1 E A
ASSY BRACKET MIDDLE	2 EA
ASSY BRACKET CENTER	-

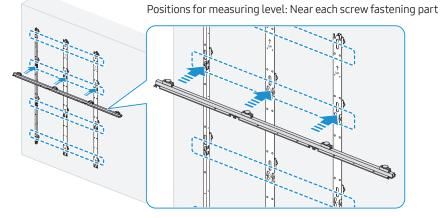
4. Fasten the screws on ASSY BRACKET MIDDLEs according to the screw fastening order.

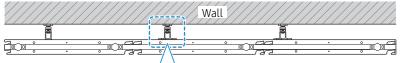


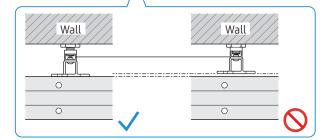
- When installing Frame KIT, keep ASSY BRACKET JIG and ASSY BRACKET parallel.



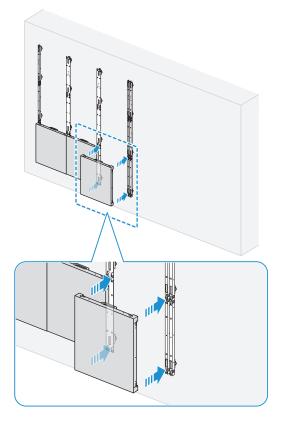
- 5. Remove ASSY BRACKET JIG, and then install the remaining ASSY BRACKETs in the same way as Step 2.
- Install from left to right.
- Install ASSY BRACKET CENTER at the center of Frame KIT.
- When installing three or more ASSY BRACKETs, adjust their levels because they may be distorted by walls or structures.
- After installing three or more ASSY BRACKETs, place another ASSY BRACKET horizontally on them and measure if there is a height difference among them. If a height difference is found, adjust the Z-Bolt heights of ASSY BRACKETs to make them level with each other.
- For adjusting the heights, see Adjusting the Frame Z-Bolt height on page 17.



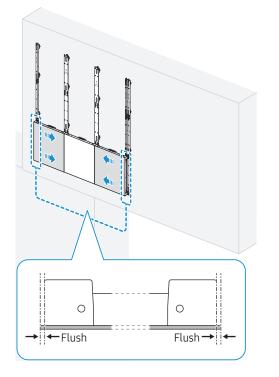




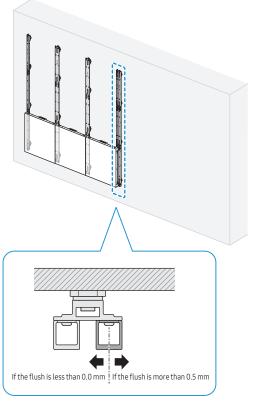
- 6. After installing ASSY BRACKET CENTER, install cabinets on the bottom line.
- For information about installing cabinets, see Installing a cabinet onto Frame KIT on page 14.



7. When the cabinet installation is finished, slide the LED modules toward the center and check the flushes between the cabinets and the LED modules at both ends.

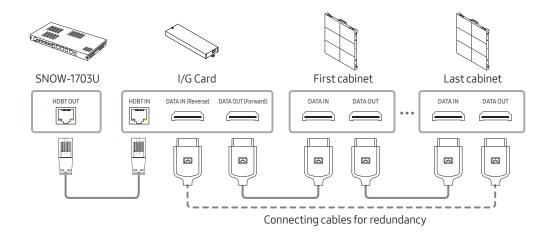


- 8. Make the left and right flushes equal, and then adjust the flushes according to the following criteria:
- If the flush is more than 0.5 mm, move the Frame outward.
- If the flush is less than 0.0 mm, move the Frame inward.
- Adjust the flush each time you install a cabinet additionally. If the flush is 0.0 to 0.5 mm, you don't need to adjust.
- Refer to Adjusting the frame spacing and height on page 16.

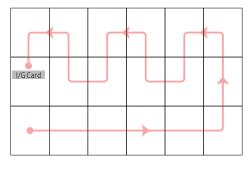


- 9. When the flush adjustment is finished, install the next ASSY BRACKET MIDDLE. For the installation method, refer to Step 2 and the following steps.
- Finally, install ASSY BRACKET SIDE.

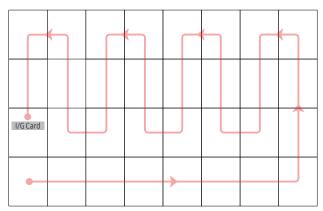
Cabinet data flow



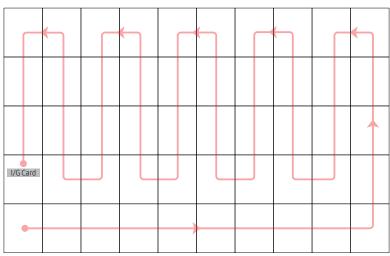




VG-LFH20FWA: 8 × 4



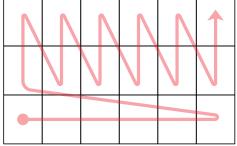
VG-LFH25FWA: 10 × 5

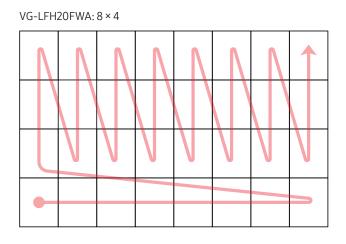


Cabinet installation procedure

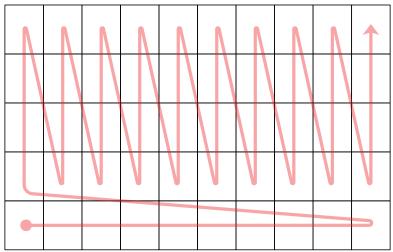
- Each time you install a cabinet, you must also connect its cables.

VG-LFH15FWA: 6 × 3



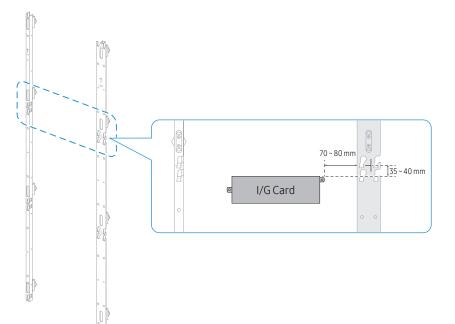


VG-LFH25FWA: 10 × 5



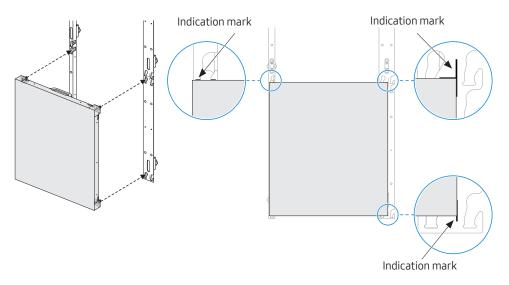
Installing a cabinet onto Frame KIT

- 1. Mount the I/G card at the specified position for each Frame KIT model.
- Refer to Cabinet data flow on page <u>12</u>.
- Mounting position: Place the I/G card at a position 35 to 40 mm below the indication mark on the right frame, and then fasten the screws.



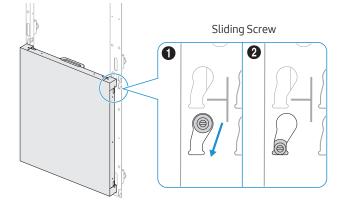
2. Align the corners of the cabinet with the indication marks on the frames, and then fit the cabinet and frames together.

Make sure that all four Sliding Screws are inserted in their respective frames.



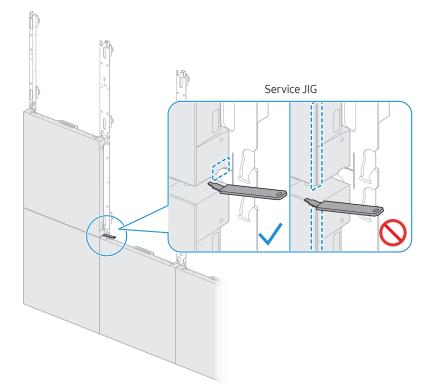
3. Press the top of the frame to slide it down diagonally until it is fastened by the Sliding Screw.

- If you are installing the frame on a non-flat wall, you can use a Z-Bolt to adjust the frame height.



When assembling more than two rows, insert the Service JIG between the upper, and then lower cabinets and smoothly lower the upper cabinet. Then, remove the Service JIG, and then slowly lower the upper cabinet completely.

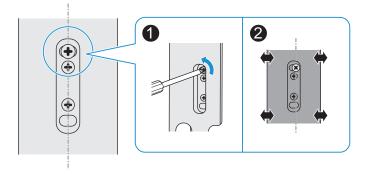
- Be careful that the Service JIG does not touch any LED module.
- During installation of each cabinet, make sure that there are none of widening between modules and pitch gap variations.



Adjusting the frame spacing and height

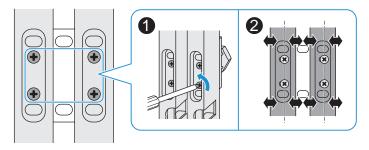
Adjusting the frame spacing

- If the frame spacings are not uniform, you can adjust them.
- If you need to move the frame left or right, you can fine-tune the right and left frame spacings up to ±2.0 mm without removing the frame from the wall.
- 1. To adjust the frame spacings, loosen the screw fastened to ASSY BRACKET.
- 2. Adjust the ASSY BRACKET spacing.
- 3. After adjusting the spacing, tighten the screws for fixing.

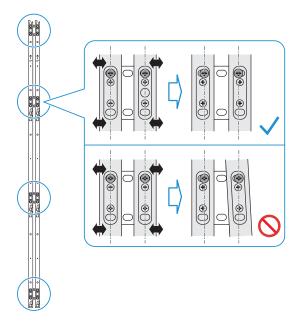


Adjusting the cabinet spacing

- You can fine tune the left and right positions of the cabinet up to ±1.0 mm.
- 1. To adjust the cabinet spacing, loosen the screws fastened to ASSY BRACKET CENTER.
- 2. Adjust the cabinet position with ASSY BRACKET CENTER.
- Check all bracket spacings again with ASSY BRACKET JIG.
- 3. After adjusting the spacing, tighten the screws for fixing.

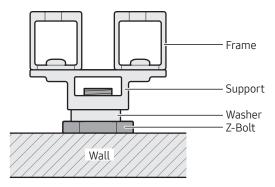


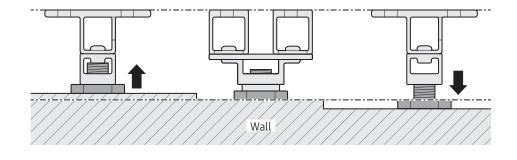
 \triangle Caution: When fine-tuning the spacing, be sure to move ASSY BRACKET CENTER without tilting.



Adjusting the Frame Z-Bolt height

- If you are installing the frame on a non-flat wall, you can use a Z-Bolt to adjust the frame height.
- You can fine tune the Z-Bolt height of the frame up to ±3.0 mm.





- 1. To adjust the Z-Bolt height of the frame, first remove the washer.
- 2. After removing the washer, use a wrench (28 mm) to adjust the Z-Bolt height.
- One Z-Bolt turn = Height ±1.5 mm

