



ADVANCED SERIES

RF-TVML70

TV Wall Mount



For wood-stud and concrete
wall installations

Safety information and specifications	2
Tools needed	2
Package contents: parts	3
Package contents: hardware	4
Installation instructions	5

Assembly Guide

Before using your new product, please read these instructions to prevent any damage.

Safety information and specifications



IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

CAUTION: Do not use this product for any purpose not explicitly specified by Rocketfish.

Improper installation may cause property damage or personal injury. If you do not understand these directions, or have doubts about the safety of the installation, contact Customer Service or call a qualified contractor. Rocketfish is not responsible for damage or injury caused by incorrect installation or use.

The included hardware is designed for use on vertical walls constructed of wood studs or solid concrete. A wood stud wall is defined as consisting of a minimum of 2x4 wooden studs (2" wide by 4" deep) with a maximum of 5/8" drywall. The included hardware is not designed for use with metal studs or cinderblock walls. If you're uncertain about the construction of your wall, then please consult a qualified contractor or installer for assistance. For a safe installation, the wall you are mounting to must support 4 times the weight of the total load. If not, then the surface must be reinforced to meet this standard. The installer is responsible for verifying that the wall structure and hardware used in any installation method will safely support the total load.

The weight of your TV must not exceed 70 lbs. (31.8 kg). Rocketfish recommends that the wall be capable of supporting five times the weight of your TV and wall mount combined, or approximately 350 lbs. (159 kg).

This product contains small items that could be a choking hazard if swallowed. Keep these items away from young children!

Maximum TV weight: 70 lbs. (31.8 kg)

Minimum TV weight: 45 lbs. (20.4 kg)

Maximum TV Screen size: 70 in. diagonal

Overall dimensions (W x H):

10.5 x 23.8 in. (26.7 x 60.3 cm)

Wall-mount weight: 28 lbs. (12.7 kg)

We're here for you

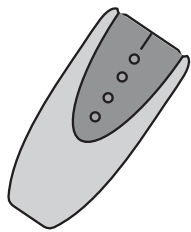
www.rocketfishproducts.com

For customer service, call:

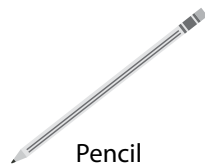
800-620-2790 (U.S./Canada markets)

Tools needed

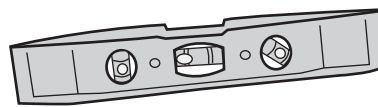
You will need the following tools to assemble your new TV wall mount:



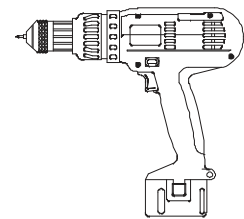
Edge-to-edge stud finder



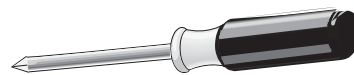
Pencil



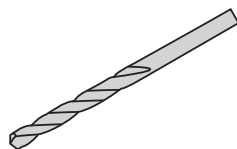
Level



Drill



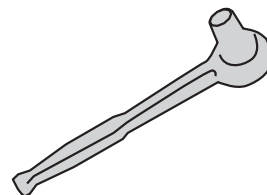
Phillips screwdriver



7/32" (5.5 mm) and 1/2" (13 mm) wood drill bit for wood stud wall

OR

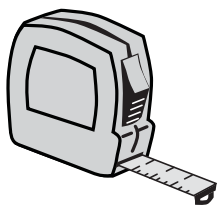
3/8" (9.5 mm) masonry drill bit (concrete only)



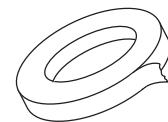
Socket wrench with 1/2" (13 mm) socket or adjustable wrench



Hammer



Measuring tape

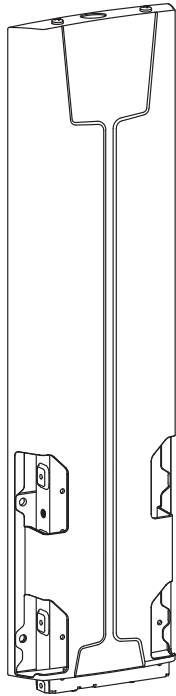


Tape

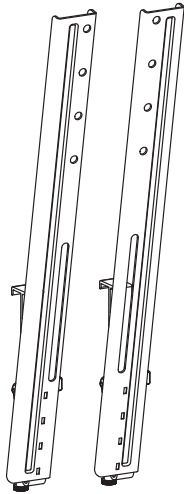
Package contents: parts

Make sure that you have all the parts necessary to assemble your new TV wall mount:

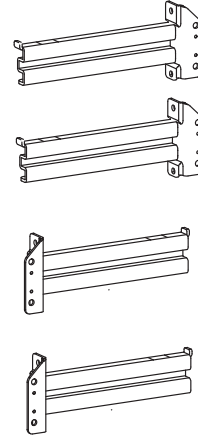
A Lift assembly (1)



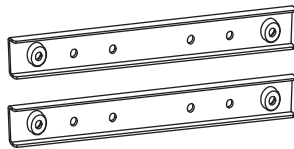
B Vertical rails (2)



C Horizontal rails (4)



E VESA adapters (2)




















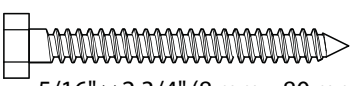






D Template (1)

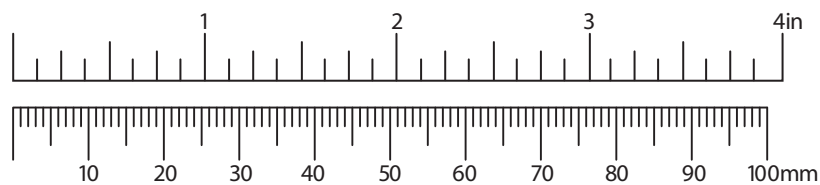


Package contents: hardware

Make sure that you have all the hardware necessary to assemble your new TV wall mount:

Label	Hardware	Qty.
M-A	 M4 x 15 mm screw	4
M-B	 M4 x 30 mm screw	4
M-C	 M5 x 15 mm screw	4
M-D	 M5 x 30 mm screw	4
M-E	 M6 x 15 mm screw	4
M-F	 M6 x 30 mm screw	4
M-G	 M8 x 15 mm screw	4
M-H	 M8 x 30 mm screw	4
M-I	 M6/M8 5 mm spacer	4
M-J	 M6/M8 10 mm spacer	4
M-K	 M4/M5 Washer	4
M-L	 M6/M8 Washer	4
M-M	 Pan head screw M8 x 15 mm	4
M-N	 M8 Nylock nut	4

Label	Hardware	Qty.
P-A	 Button head screw	16
P-B	 4 mm Allen wrench	1
P-C	 Knob screw M4 x0.7"	2
W-A	 5/16" x 2 3/4" (8 mm x 80 mm) lag bolt	4
W-B	 Wall anchor	4
W-C	 1/4-20 x 1-1/2" Hex Socket Screw	2
E	 Cable tubing	1
F	 Snap toggle	2
G	 Cable tie	4
H	 Cable clip	2



Installation instructions

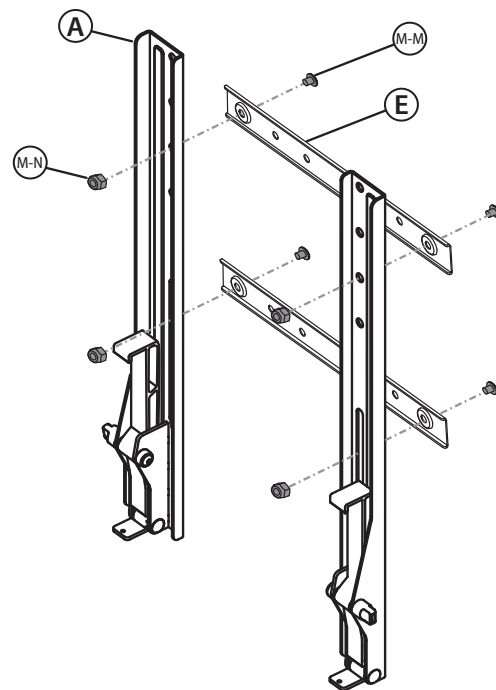
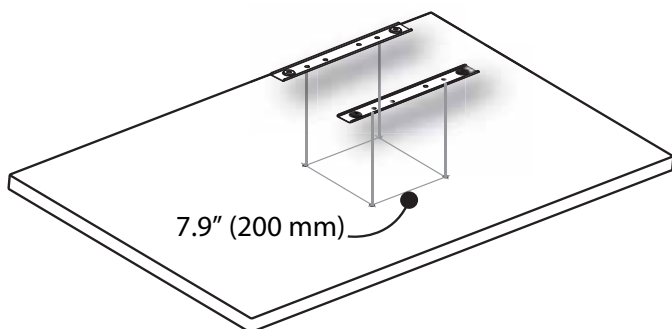
STEP 1 - Determine whether you need the optional VESA adapters

- 1 Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.
- 2 If your TV has a table-top stand attached, remove the stand. See the documentation that came with your TV for instructions.
- 3 Measure the distance between the mounting holes on the back of your TV.
- 4 If the distance equals 7.9" (200 mm), you will need to attach the VESA adapters (**E**) before proceeding to Step 2.

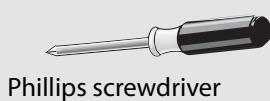
OR

If the distance is greater than 7.9" (200 mm), the VESA adapters (**E**) are not needed and you can proceed directly to Step 2.

- 5 To attach the optional VESA adapters (**E**), insert the panhead screws (**M-M**) into the recessed holes of the VESA adapters (**E**) and through the vertical rails (**B**), then insert the nylock nuts (**M-N**) into the back of the vertical rail and thread them onto the screws and tighten. Make sure that the flat side of the adapter will be against the back of the TV when assembled.



You'll need



Phillips screwdriver



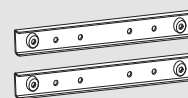
M-M Pan head screws (4)



M-N Nylock nuts (4)



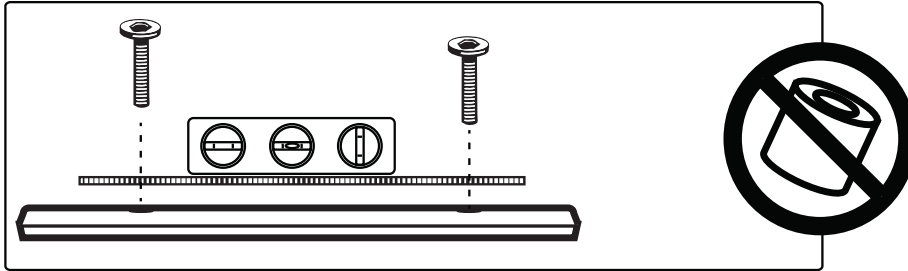
(B) Vertical rails (2)



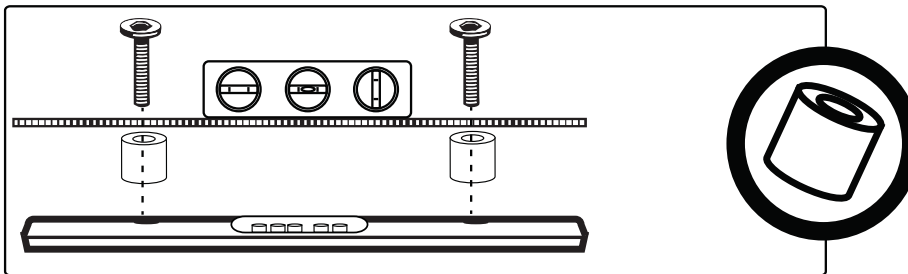
(E) VESA adapters (2)

STEP 2 - Determine whether your TV has a flat back or an irregular or obstructed back

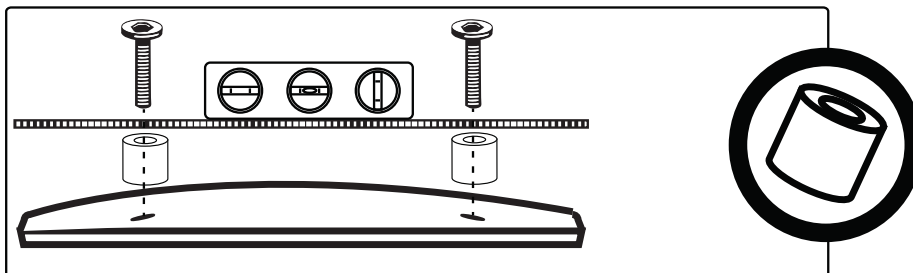
- 1 Temporarily lay the vertical rails (**B**) on the back of your TV.
- 2 Align the screw holes in the vertical rails or VESA adapters with the mounting screw holes on your TV.
- 3 Identify which type of back your TV may have:
 - **Flat back:** The vertical rails lay flush against the back of your TV and do not block any jacks. You do not need spacers when assembling the wall mount.



- **Obstructed back:** A vertical rail blocks any of the jacks on the back of your TV. You will need spacers when assembling the wall mount.



- **Irregularly-shaped back:** There is a gap between a vertical rail and some part of the back of your TV. You will need spacers when assembling the wall mount.



- 4 Remove the vertical rails.

STEP 3 - Select screws, washers, and spacers

- 1 Select the screws for your TV. A limited number of TVs come with mounting hardware included. (If there are screws that came with the TV, they are usually in the holes on the back of the TV.) If you don't know the correct length and diameter of the mounting screws your TV requires, test various sizes by hand threading the screws.

Select one of the following types of screws:

M4 × 15 mm screws (M-A)	M6 × 15 mm screws (M-E)
M4 × 30 mm screws (M-B)	M6 × 30 mm screws (M-F)
M5 × 15 mm screws (M-C)	M8 × 15 mm screws (M-G)
M5 × 30 mm screws (M-D)	M8 × 30 mm screws (M-H)

Select one of the following types of washers:

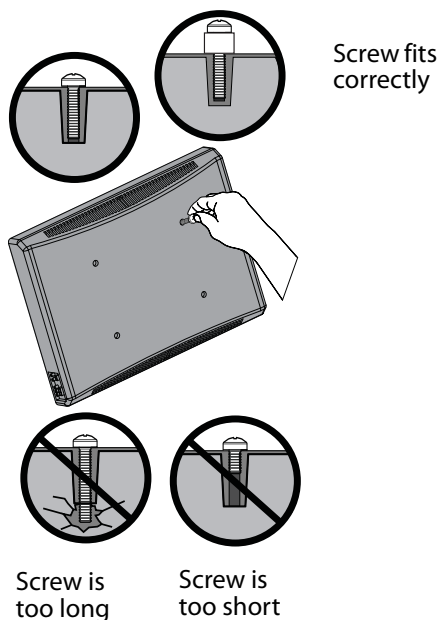
M4/M5 washers (M-K)	M6/M8 washers (M-L)
------------------------------	------------------------------

For an irregular or obstructed TV back, use one of the following spacers:

M6/M8 5 mm spacers (M-I)	M6/M8 10 mm spacers (M-J)
-----------------------------------	------------------------------------



CAUTION: To avoid potential personal injuries and property damage, make sure that there are adequate threads to secure the brackets to your TV. If you encounter resistance, stop immediately and contact customer service. Use the shortest screw available to accommodate your TV. Using hardware that is too long may damage your TV. However, using a screw that is too short may cause your TV to fall from the mount.



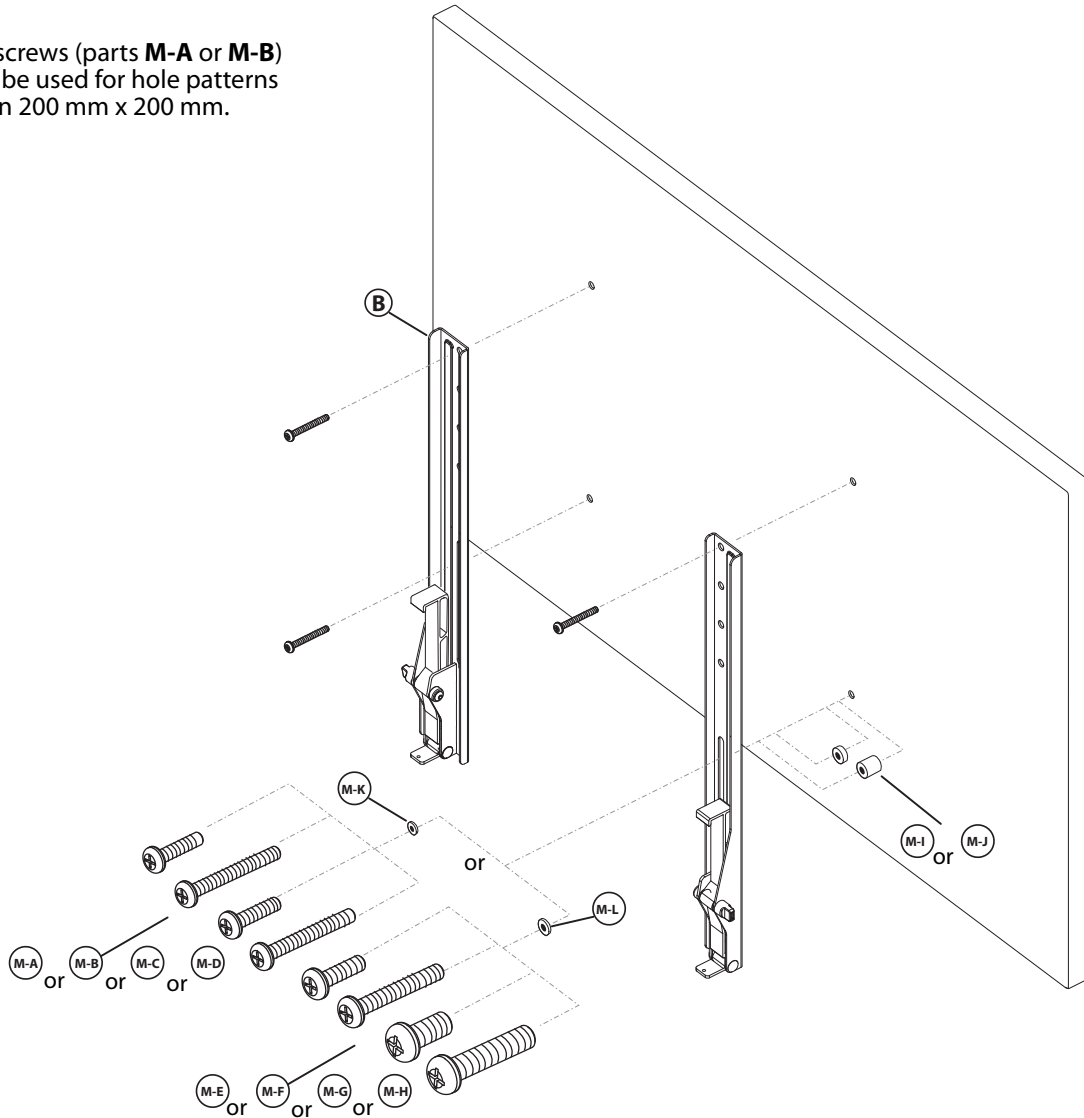
- 2 Remove the screws.

STEP 4: Option 1- Attaching the vertical rails to the TV

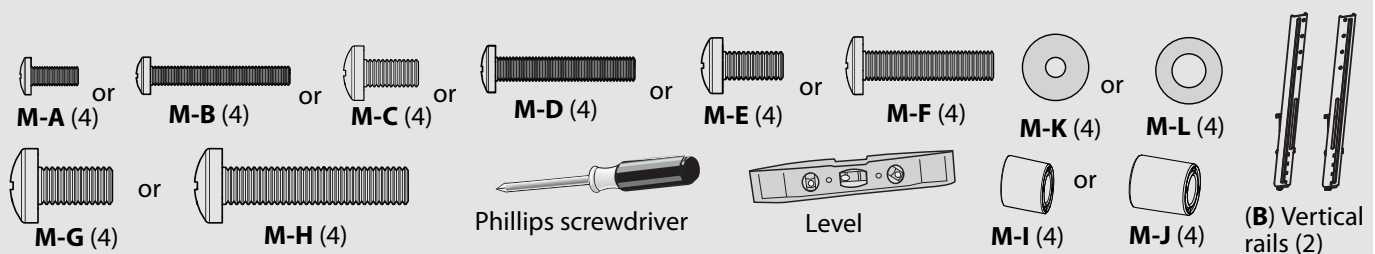
- 1 Align the vertical rails (B) with the screw holes on the back of the TV.
- 2 Install the screws you identified in Step 2 (M-A, M-B, M-C, M-D, M-E, M-F, M-G, or M-H) securely into the four holes in the back of the TV, using washers (M-K or M-L) and spacers (M-I or M-J) as necessary. Do not over-tighten.

Note: The tops of the vertical rails (B) should be level on the back of the TV.

NOTE: M4 screws (parts M-A or M-B) should not be used for hole patterns greater than 200 mm x 200 mm.



You'll need

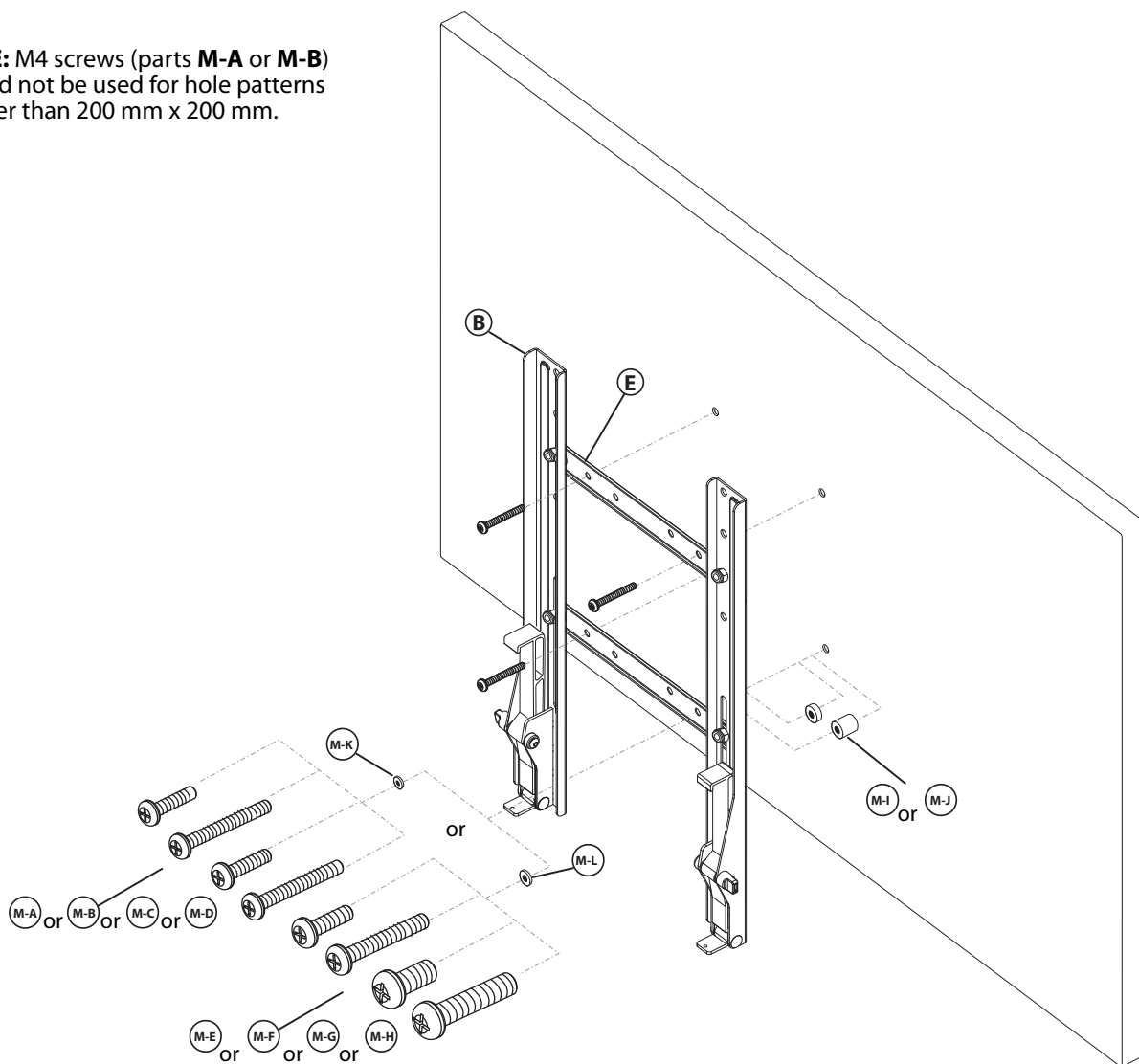


STEP 4: Option 2- Attaching the vertical rails and adapters to the TV

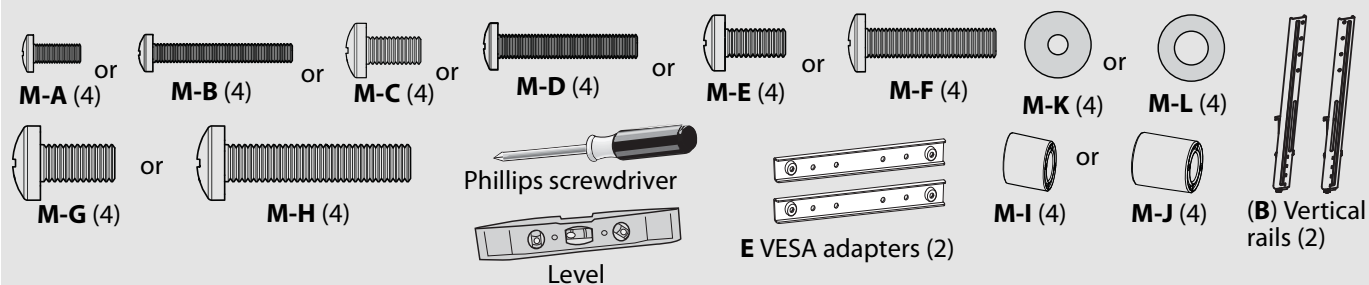
- 1 Align the vertical rails (B) with the VESA adapters (E) with the screw holes on the back of the TV.
- 2 Install the screws you identified in Step 2 (M-A, M-B, M-C, M-D, M-E, M-F, M-G, or M-H) securely into the four holes in the back of the TV, using washers (M-K or M-L) and spacers (M-I or M-J) as necessary. Do not over-tighten.

Note: The tops of the vertical rails (B) should be level on the back of the TV.

NOTE: M4 screws (parts M-A or M-B) should not be used for hole patterns greater than 200 mm x 200 mm.



You'll need



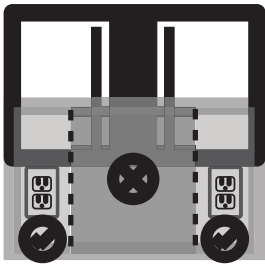
STEP 5 - Determine wall-mount location

Notes:

- For more detailed information on determining where to drill your holes, visit our online height-finder at: <http://mf1.bestbuy.selectionassistant.com/index.php/heightfinder>
- Your TV should be high enough so your eyes are level with the middle of the screen. Normally, 40 to 60 inches from the ground.

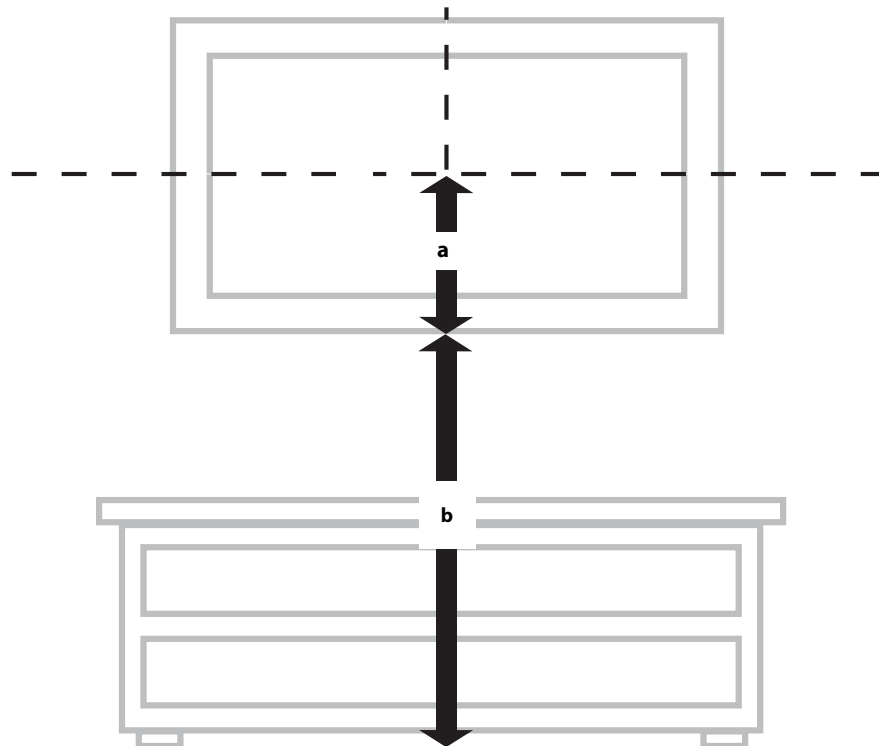
When your TV is initially mounted on the wall, it will normally be mounted in its highest position. You will only be able to lower your TV (approximately 16 inches) from this position.

- 1 Measure the distance from the bottom of your TV to the middle (half of the height of the TV). This is measurement **a**.
- 2 Measure the distance from the floor to where you want the bottom of the TV to be positioned on the wall (we recommend approximately 42" from the floor for comfortable sit-stand viewing). Keep in mind that this TV mount allows for 16" of travel vertically downward from the initial mounting position. This is measurement **b**.
- 3 Add **a + b**. This measurement is the height where you want the center of your TV to be.
- 4 Use a pencil to mark this spot on the wall.



CAUTION: Risk of electrical shock. To ensure safe use of this product, install power outlets or supplies outside of the horizontal rails. Do not route electrical cords within the path of the horizontal rails. Be aware of pinch points when routing cables. Failure to heed this caution may result in equipment damage or personal injury.

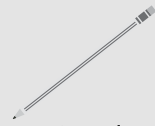
Refer to "STEP 9 - Installing the cable wrap and cable ties" on page 16, for information on how to appropriately route your power, HDMI, and AV cables.



You'll need



Measuring tape



Pencil

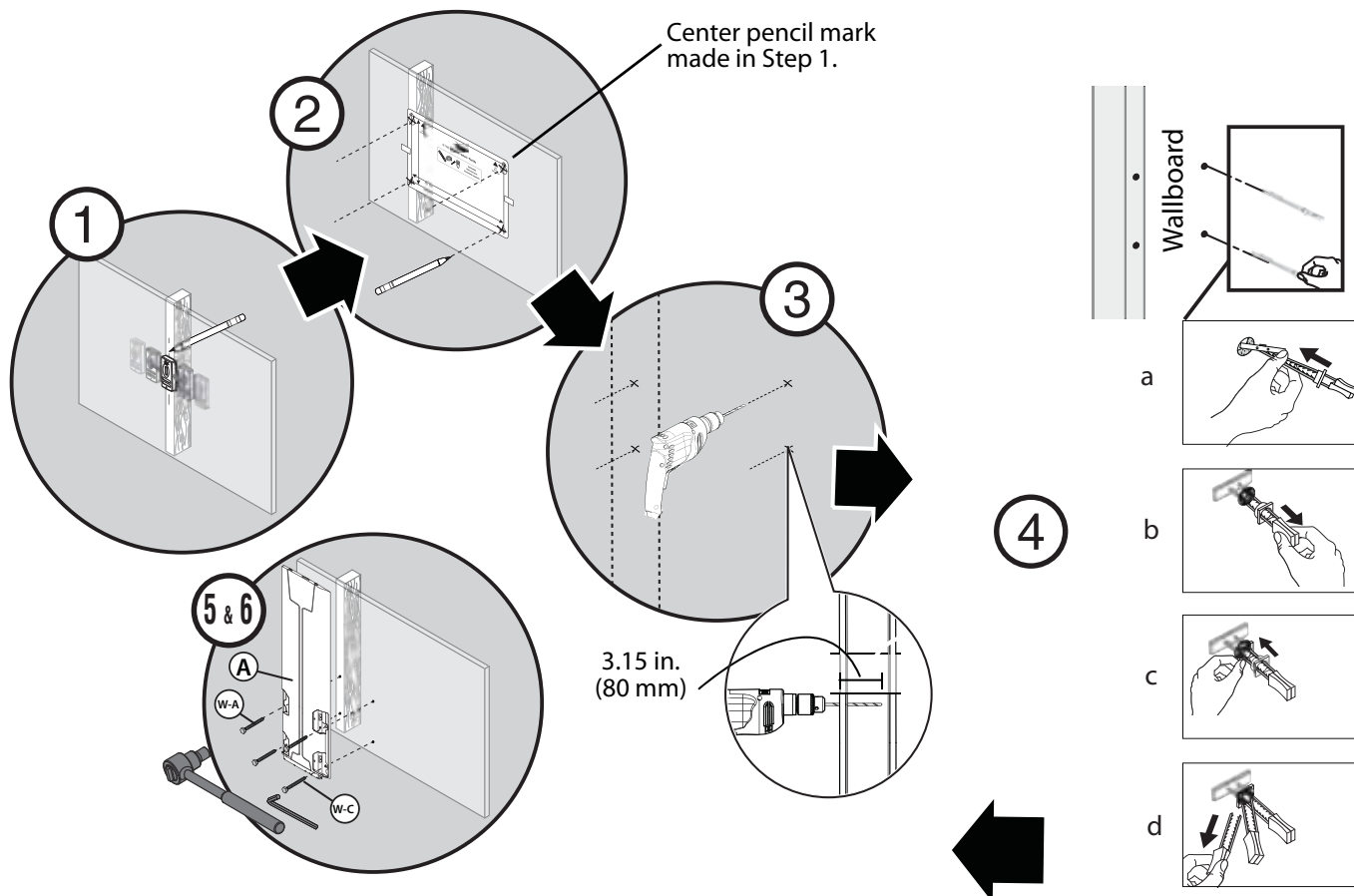
STEP 6 - Option 1: Installing on a wood stud wall

Note: Any wallboard or material covering the wall must not exceed 5/8" (16 mm).

- 1 Locate the stud. Verify the center of the stud with an edge-to-edge stud finder.
- 2 Align the wall plate template (D) at the height you determined in the previous step, so that it lines up with at least one stud, make sure that it is level, then tape it to the wall. Use a pencil to mark the lag bolt hole locations (2) on the stud centers and snap toggle locations (2) on the wallboard. Remove the wall plate template.
- 3 Drill pilot holes in the wood stud for the lag bolts (W-A) to a depth of 3.15 in. (80 mm) using a 7/32 in. (5.5 mm) diameter drill bit, then drill holes for the snap toggles (F) (2) in the wallboard using a 1/2 in. (13 mm) diameter drill bit.
- 4 Install the snap toggles (F) into the wallboard (not the stud).
 - a Fold the metal bar part of the toggle (F) flat, then insert it into the hole drilled in the previous step.
 - b The metal bar should unfold behind the wall. Gently pull the snap toggle (F) forward until the metal bar comes in contact with the wall.
 - c Push the grommet part of the snap toggle (F) along the plastic sliders toward the wall. Gently push the grommet into the opening to form a rim around the hole.
 - d With the toggle grommet firmly engaged in the wall, snap off the plastic sliders and remove the remaining part of the toggle.
- 5 Attach the lift assembly (A) to the wall using two 1/4-20 x 1-1/2" hex socket screws (W-C) through the snap toggles (F). Use a 4 mm Allen wrench (P-B) to tighten. Do not over tighten.
- 6 Insert the two lag bolts (W-A) through the holes in the lift assembly (A), then tighten the lag bolts into the stud only until they are firm against the lift assembly (A). Do not over tighten.

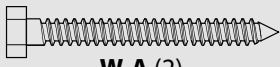


CAUTION: Avoid potential injuries or property damage!
DO NOT over-tighten the lag bolts (W-A) or screws (W-C).

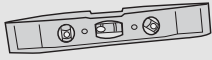


STEP 6 - Option 1: (continued)

You'll need



W-A (2)



Level



W-C 1/4-20 x 1-1/2" hex socket screws (2)



A Lift assembly



Edge-to edge stud finder



Tape



Pencil



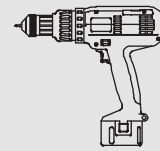
D Template



P-B 4 mm Allen wrench



13 mm socket wrench



Drill



7/32" wood drill bit and 1/2" drill bit

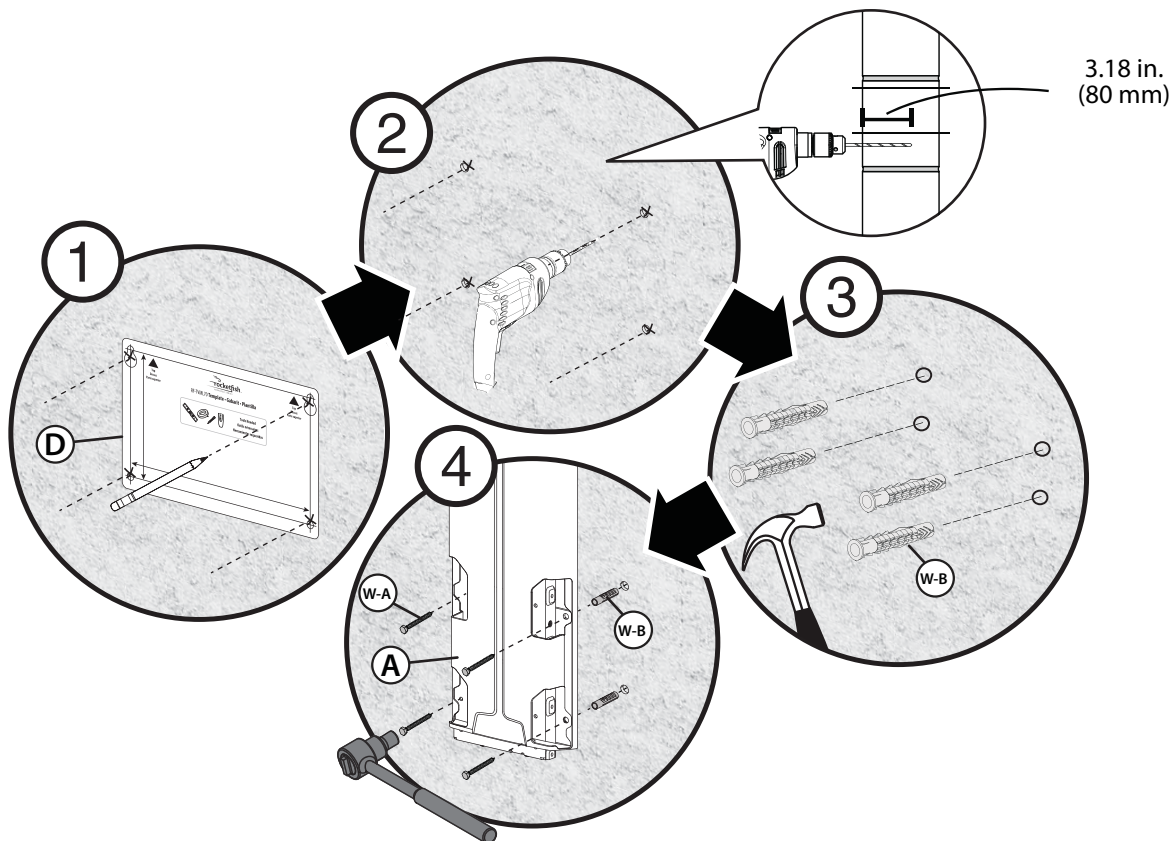


F Snap toggles (2)

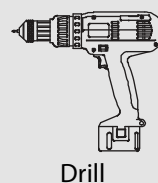
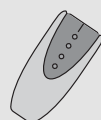
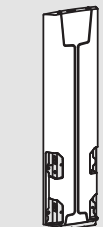
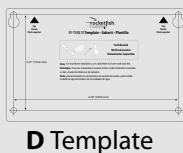
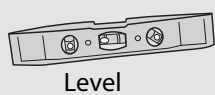
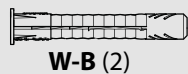
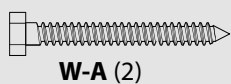
STEP 6 - Option 2: Installing on a solid concrete wall

- 1 Align the wall plate template (D) at the height you determined in the previous step and make sure that it is level, then tape it to the wall. Use a pencil to mark the lag bolt hole locations (4). Remove the template.
- 2 Drill pilot holes to a depth of 3.15 in. (80 mm) using a 3/8 in. (10 mm) diameter masonry drill bit.
- 3 Insert the concrete wall anchors (W-B) into the pilot holes and use a hammer to make sure that the anchors are flush with the concrete surface.
- 4 Align the lift assembly (A) with the anchors, insert the lag bolts (W-A) through the holes in the wall plate, then tighten the lag bolts only until they are firm against the wall plate.

CAUTION: Avoid potential injuries or property damage!
DO NOT over-tighten the lag bolts (W-A).

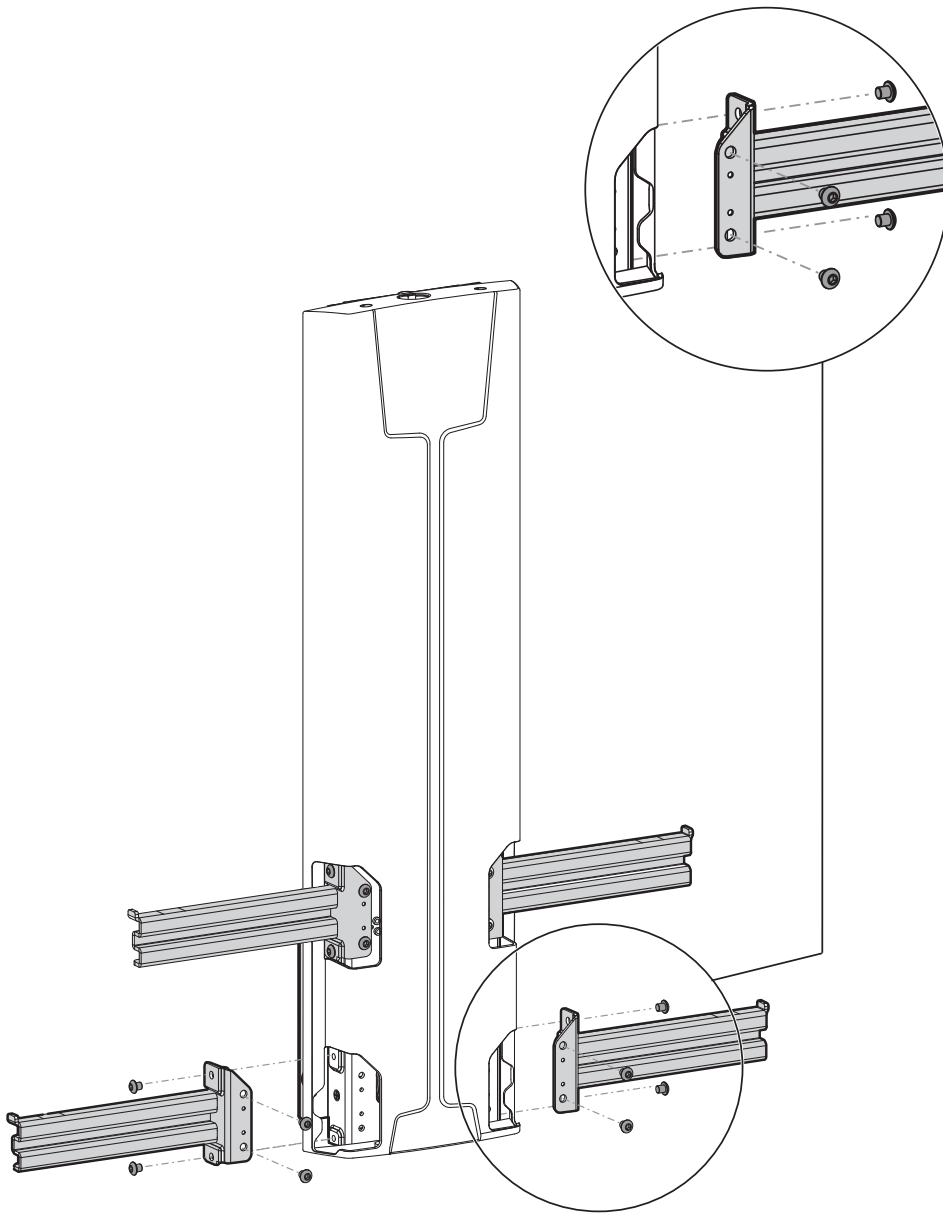
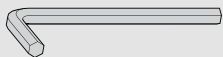
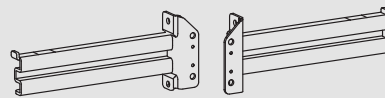


You'll need



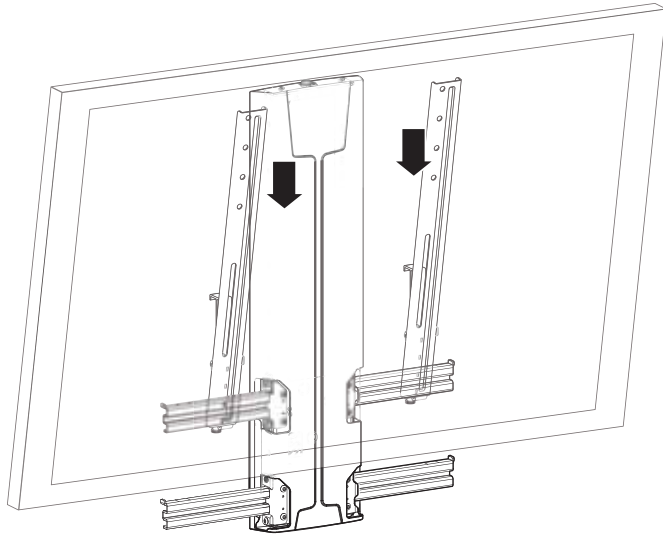
STEP 7 - Attach the horizontal rails to the lift assembly

- 1 Using the 4 mm Allen wrench (**P-B**), install the right and left horizontal rails (**C**) onto the lift assembly (**A**) using four button head screws (**P-A**) for each horizontal rail.

**You'll need****P-B** 4 mm Allen wrench**P-A** Button head screw (16)**C** Horizontal rails (4)

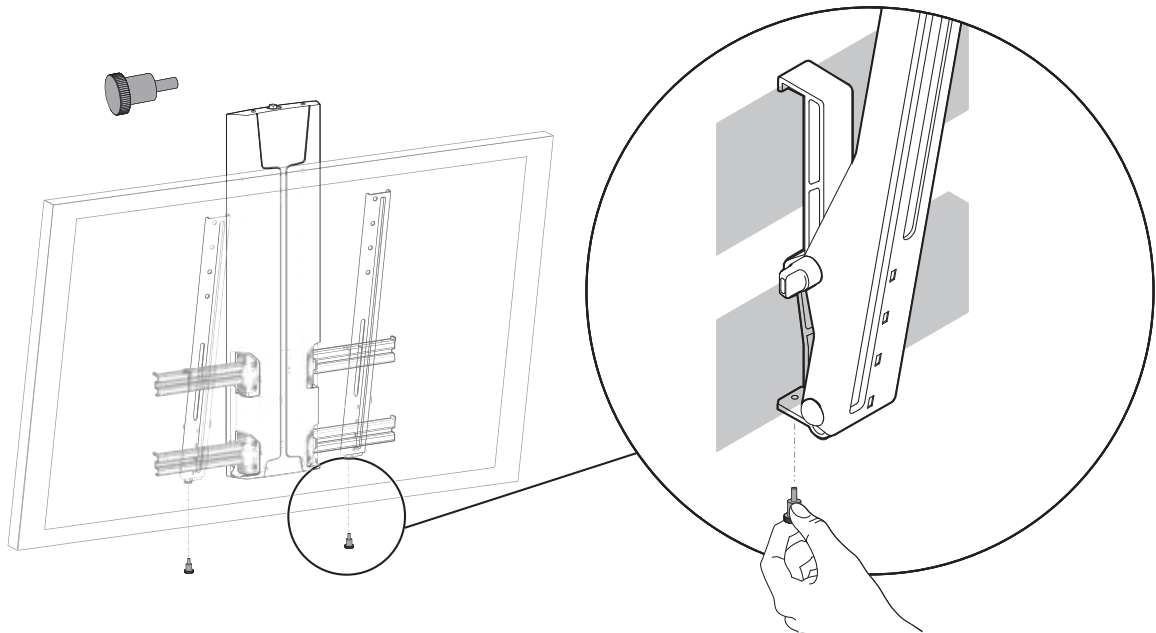
STEP 8 - Attach your TV to the lift assembly

- 1 Hang the hooks of the vertical rails (B) over the top horizontal rails (C), then lower the bottom tabs of the vertical rails (B) under the bottom horizontal rail (C).
- 2 Secure with the knob screws (P-C) through the bottoms of the vertical arms (B).

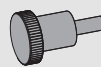


HEAVY! You will need assistance with this step.

NOTE: This shows the front of the vertical rails. The back of the rails have hooks that will hang over the horizontal rails.



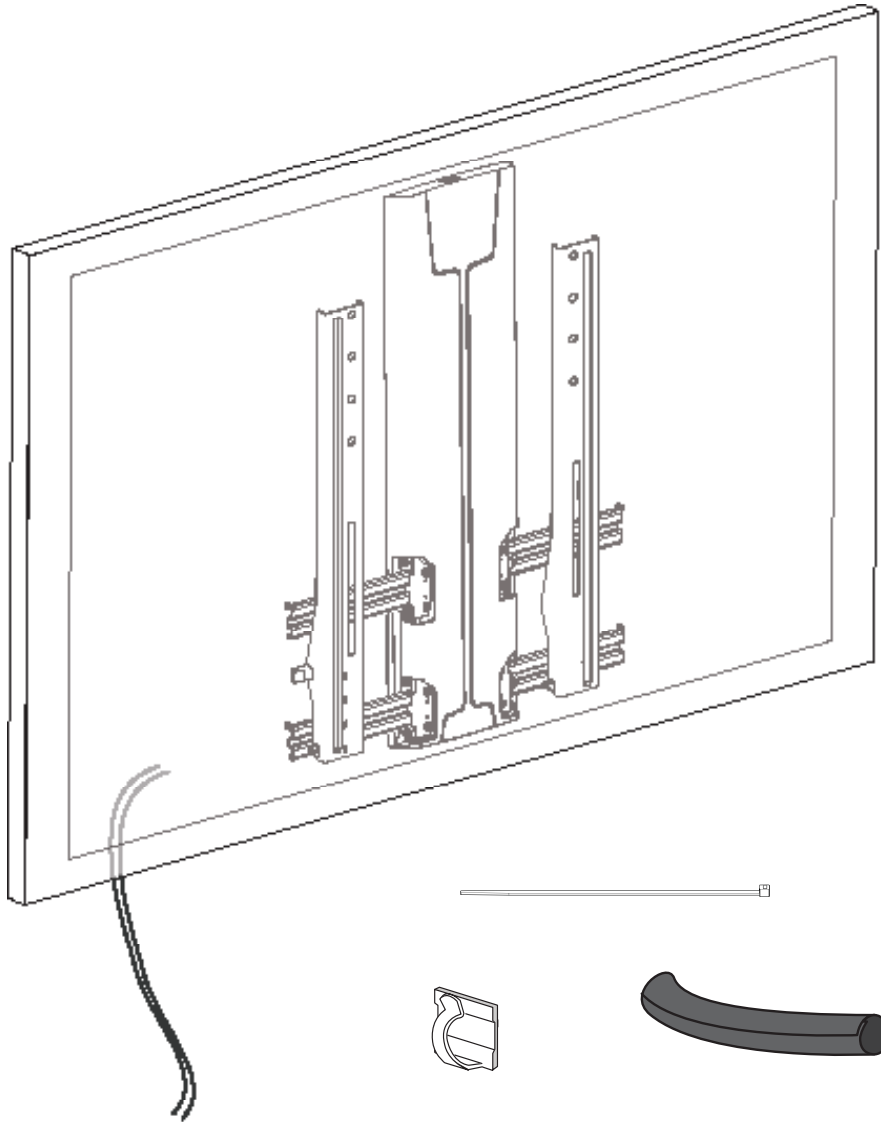
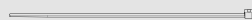
You'll need



P-C (2)

STEP 9 - Installing the cable wrap and cable ties

- 1 Connect the cable to your TV, then secure the cable to the lift assembly (**A**) with cable ties (**G**) or cable clips (**H**), as necessary.
- 2 Install the cable tubing (**E**) on the cables to provide a neater appearance.

**You'll need****G** Cable ties (4)**E** Cable tubing**H** Cable clips (2)

STEP 10 - Adjusting the vertical motion and tilt

Important! You will need to adjust this product after installation is complete.


Make sure all your equipment is properly installed on the product before adjusting. This product should move smoothly and easily through the full range of motion and stay where you set it. If movements are too easy or difficult or if product does not stay in desired position, follow the adjustment instructions to create smooth and easy movements.


NOTE: Depending on your product and the type of adjustment, it may take many turns to notice a difference.

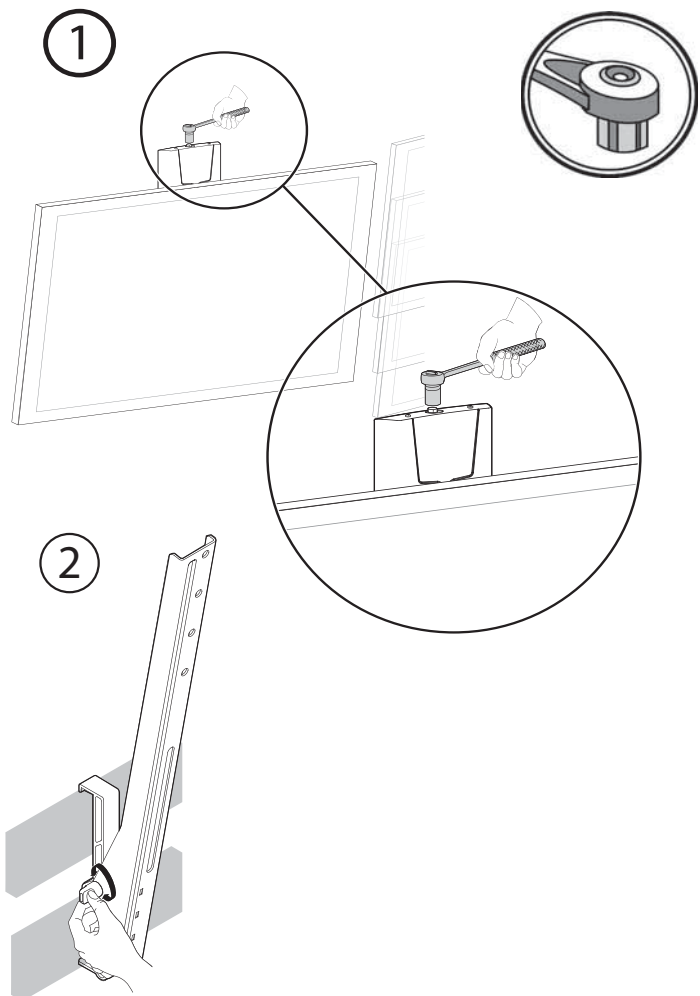
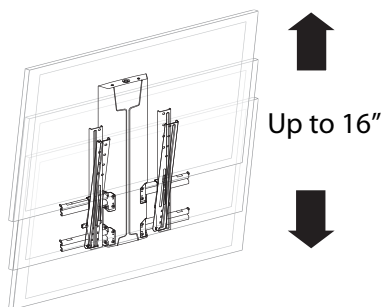
Any time equipment is added or removed from this product, resulting in a change in the weight of the mounted load, you should repeat these adjustment steps to ensure safe and optimum operation.

- 1 To increase or decrease the lift tension setting, use the socket wrench w/13 mm socket.
- 2 Loosen the tilt adjustment knob, then tilt the TV to the angle you want. Retighten the tilt adjustment knob. You can adjust the tilt up to 10° forward.

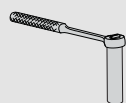
Adjusting the factory-set tension

+  **Increase**
If TV weight exceeds product's factory setting, it won't stay up when raised. To prevent TV from sagging downward, increase tension setting.

-  **Decrease**
If TV weight is lower than product's factory setting, it won't stay down when lowered. To prevent TV from drifting upward, decrease tension setting.



You'll need



Socket wrench w/13 mm socket

For customer service, call: 800-620-2790 (U.S./Canada markets)



www.rocketfishproducts.com (800) 620-2790

Distributed by Best Buy Purchasing, LLC

7601 Penn Avenue South, Richfield, MN 55423-3645 USA

© 2013 BBY Solutions, Inc.

All rights reserved. ROCKETFISH is a trademark of BBY Solutions, Inc.

All other products and brand names are trademarks of their respective owners.

Part Number: 888-61-046-W-01