

MantelMount

MM700 Installation Instructions

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

Please read this entire manual before you begin.
Do not unpack any contents until you verify all requirements on PAGE 4.
If you have any questions, visit our website or call (800)-897-9755.

WARNING!

This product contains small parts that can be a choking hazard. *Do not* let children play with any of these small parts! Keep children away from the work area during installation.

CAUTION:

This product is intended to be installed by professional installation contractors, or persons familiar with the tools and methods required for this installation. If you are not sure about your ability to perform this installation, you must contact a professional. MantelMount is not responsible for damage or injury caused by incorrect installation or improper use.

CAUTION:

Do not let children operate, pull on, or hang from MantelMount. Do not let children push MantelMount upward to the top position - this will cause the mount to slam against the wall due to the upward force of the springs. Only a person tall enough to control the mount all the way to the top should operate MantelMount.

CAUTION:

Do not use this product in any way, or for any purpose, that is not specifically described in these instructions. MantelMount is not responsible for damage or injury caused by incorrect installation or improper use.

IMPORTANT:

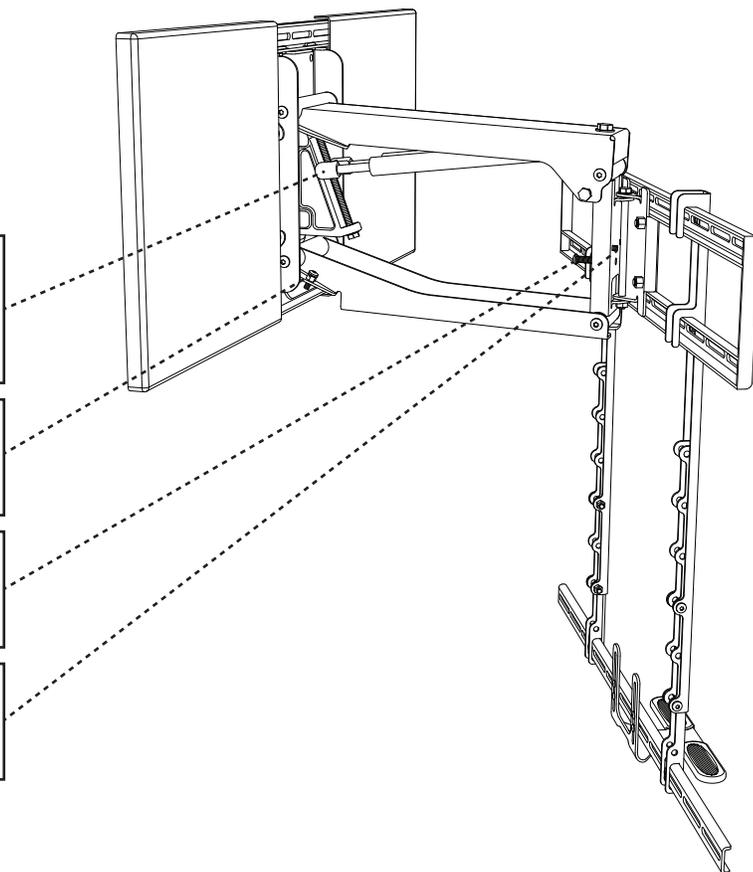
MantelMount has four different adjustments that must be made after the installation is complete in order to operate properly.

The main bolt adjusts the lifting force to accommodate different TV weights. All TVs within the weight range should stay in the UP and DOWN positions when adjusted properly

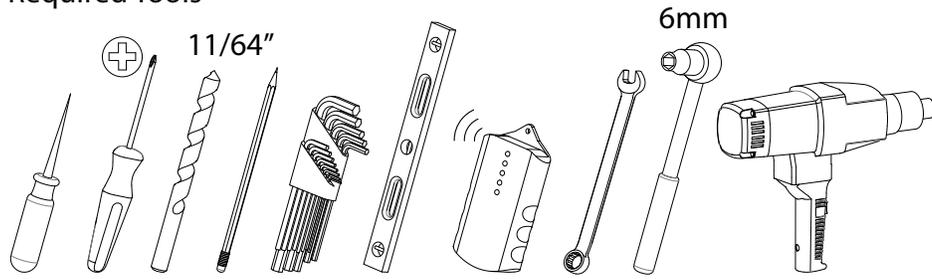
The bottom travel stop is adjusted with two screws so that the TV and mount do not lower all the way into the mantel.

A slight amount of tilt in the UP position can be added or removed by using one screw inside the lifting mechanism.

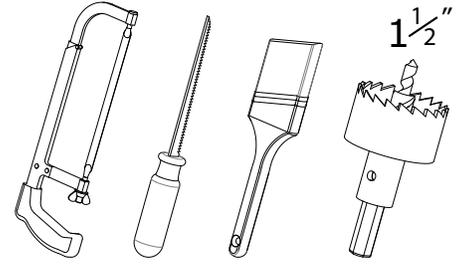
The side-to-side swivel stops are adjusted with two screws so that the TV does not swivel into the mantel.



Required Tools

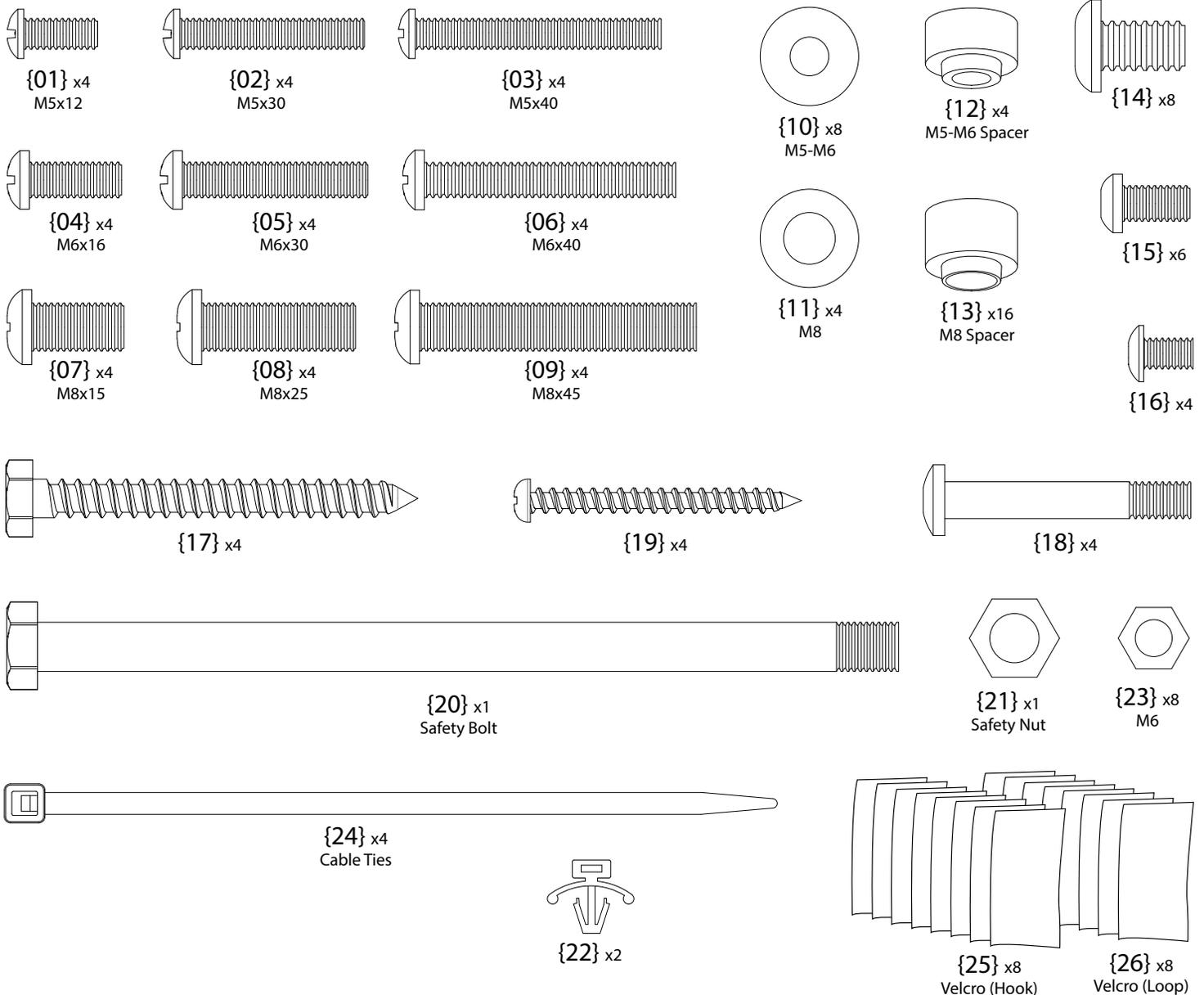


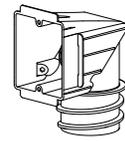
Optional Tools



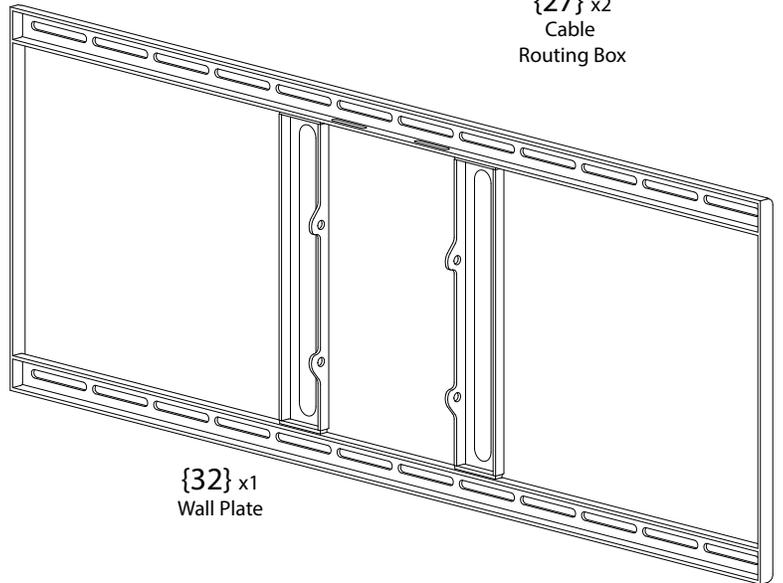
Before you begin, please verify that all components are included and undamaged. If any parts are missing or damaged, contact MantelMount. Never proceed with missing or damaged parts!

Lay out all components and make sure you identify that each one has a match in the diagram. Some of the parts included will not be used during installation. Do not proceed if you do not understand and identify all of the components.

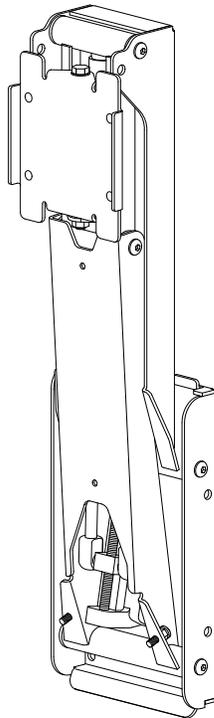




{27} x2
Cable
Routing Box

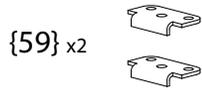


{32} x1
Wall Plate



{35} x1
Lifting
Mechanism

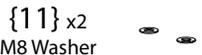
OPTIONAL:
SIDE SWIVEL KIT



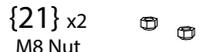
{59} x2



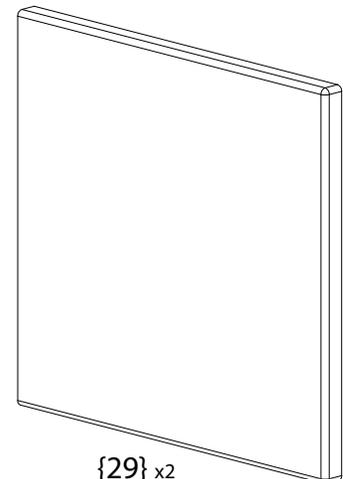
{14} x2



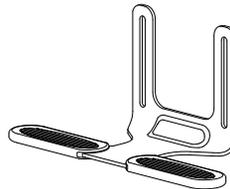
{11} x2
M8 Washer



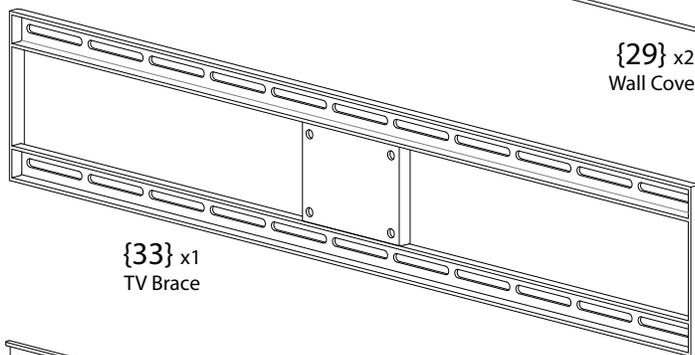
{21} x2
M8 Nut



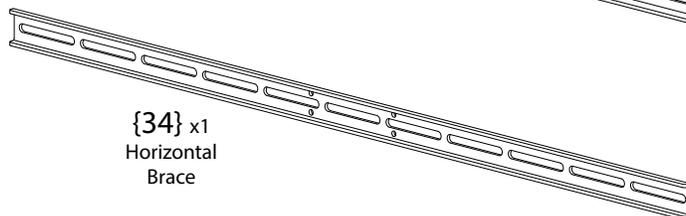
{29} x2
Wall Cover



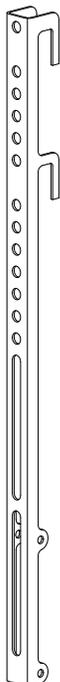
{28} x1
Center
Handle



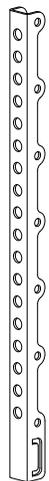
{33} x1
TV Brace



{34} x1
Horizontal
Brace



{31} x2
Vertical
Brace

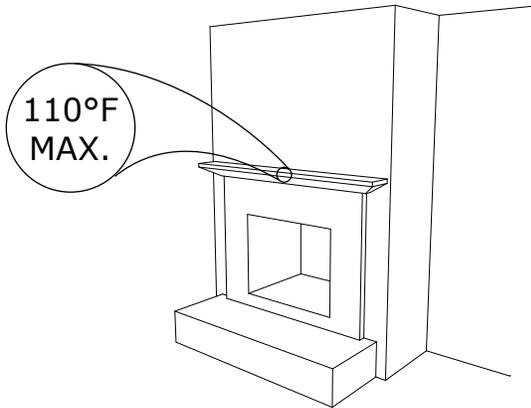


{30} x2
Brace
Extender

Please verify that your installation meets all of these CRITICAL requirements:

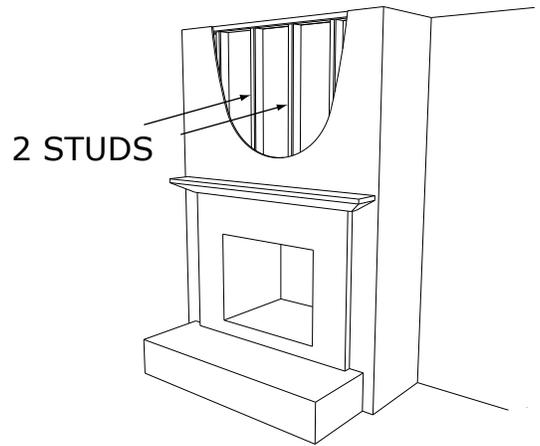
A

MantelMount is designed for use only with decorative fireplaces that are not the primary heat source for a house. Temperature at the front edge of mantel should never exceed 110° F.



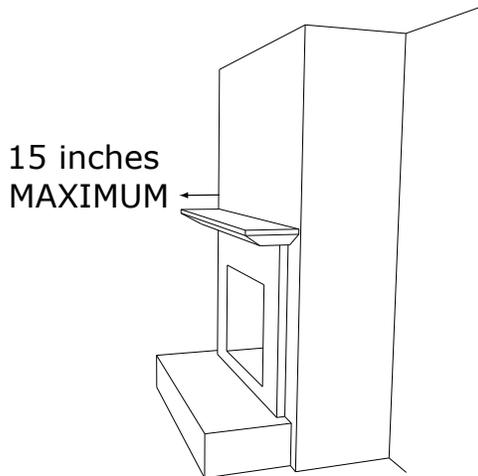
B

Wall must be WOOD STUD FRAME only. There must be at least 2 studs available for mounting. Wall covering must not exceed 5/8 inch thick.



C

Mantle must not extend from mounting surface more than 15 inches. MantelMount can not extend past a mantel larger than 15 inches. Larger mantels will also reduce the amount of side-to-side swivel.

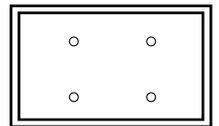
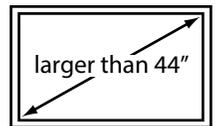
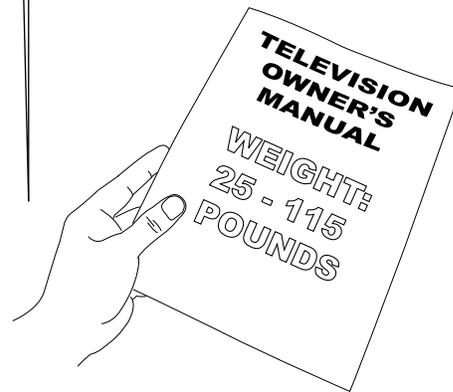


D

TELEVISION REQUIREMENTS:

1. Weight must be between 25 - 115 pounds.
2. Screen size larger than 44 diagonal inches.
3. Mounting screw holes are VESA compliant.

For non-VESA hole patterns, please visit:
www.mantelmount.com/non-vesa

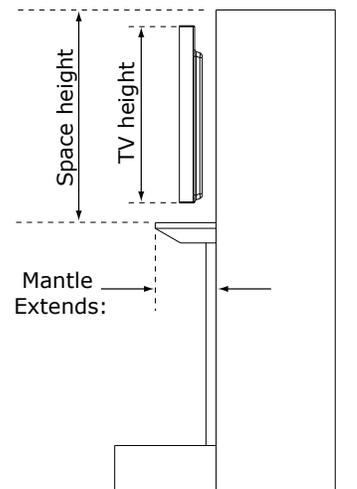


VESA
 Width: 200-800mm
 Height: 100-500mm

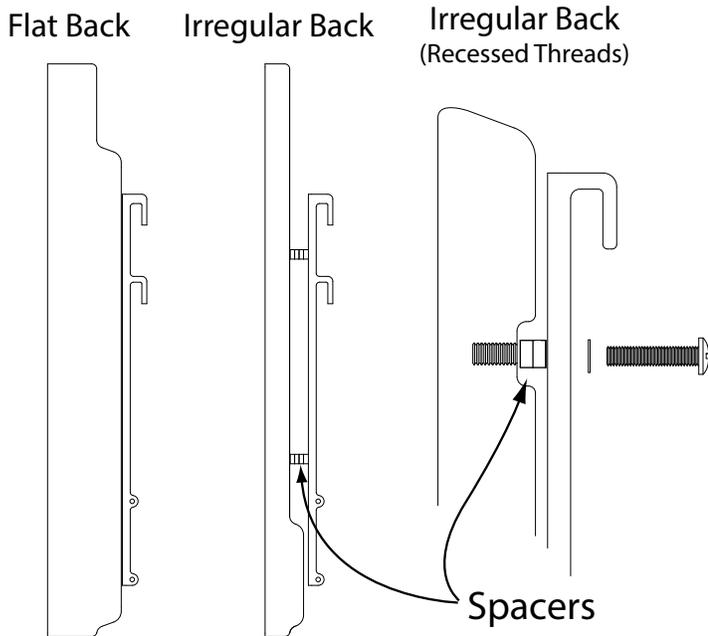
E

The space above the mantel must be taller than the TV. The required space depends on how far out the mantel extends. Refer to chart below and add this additional height to the TV height to determine if space is tall enough.

| If mantle extends: | This is required space height: |
|--------------------|--------------------------------|
| Less than 8 inches | TV height plus 2 inches |
| 8 - 10 inches | TV height plus 4 inches |
| 10 - 12 inches | TV height plus 5 inches |
| 12 - 14 inches | TV height plus 7 inches |



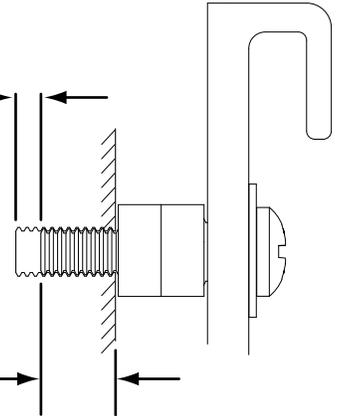
- 1 Use a Vertical Brace {31} to determine if your television is a flat back or an irregular back. An irregular back will require spacers and longer screws to fill any spaces between the Vertical Brace and the TV. The Braces must be parallel to your television screen.



- 2 Choose the correct screw diameter and length for the TV. Hand-thread screw combination into the TV to ensure there is adequate thread engagement without hitting the bottom of threaded insert. Use only minimum amount of spacers (if required).

Must leave a gap in threaded TV insert

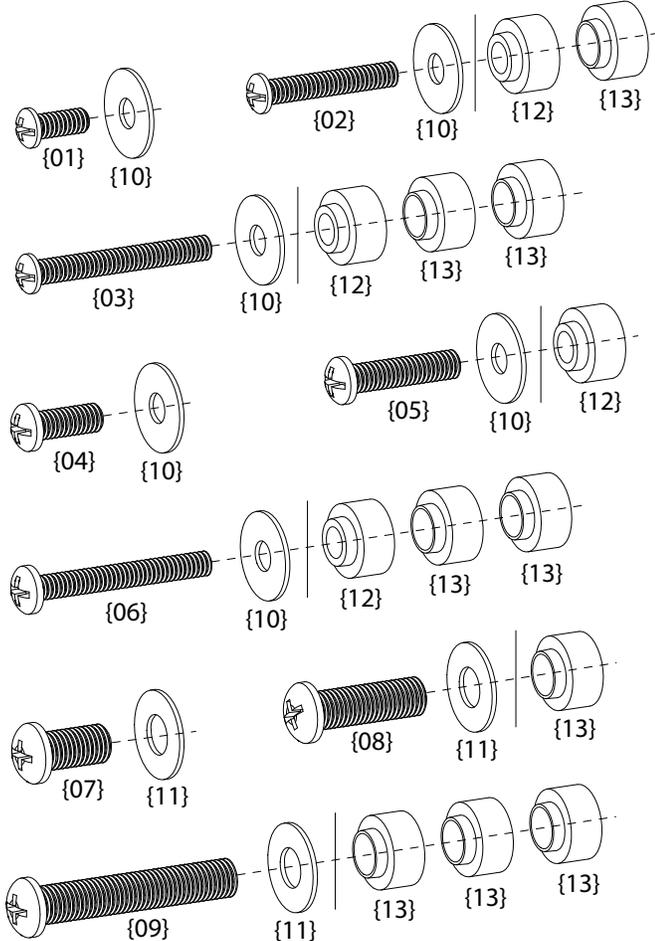
7-10 threads minimum engagement



CAUTION:

Do Not use screws that are too long for the threaded inserts of Television. This can damage internal components.

- 3 Possible Screw Combinations shown with maximum spacer usage (if spacers are required). Note: The sleeve on the Spacer always faces the Screw.



- 4 IMPORTANT INFORMATION: The Vertical Braces {31} are a fixed distance (1 inch) higher than the bottom of the Wall Plate {32}. This relationship can be used to calculate unusual mounting situations such as centering the TV in an alcove or mounting to a specific height on the wall.

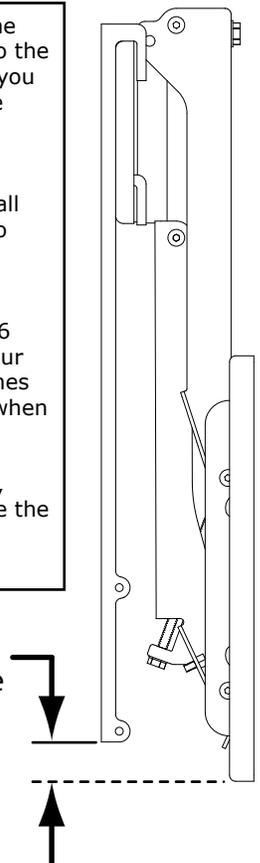
If you measure the distance from the bottom of your TV (or Sound Bar) to the bottom of the Vertical Braces {31} you will automatically know the distance from the bottom of your TV to the bottom of the Wall Plate {32}.

You can use this information to install the Wall Plate on the wall in order to locate the height of your TV to any specific height you desire.

Example: If the Vertical Braces are 6 inches higher than the bottom of your TV, then the Wall Plate will be 5 inches higher than the bottom of your TV when the installation is complete.

If you are installing above a mantel, then your installation must still have the additional clearance for downward motion stated in the chart in Step 9

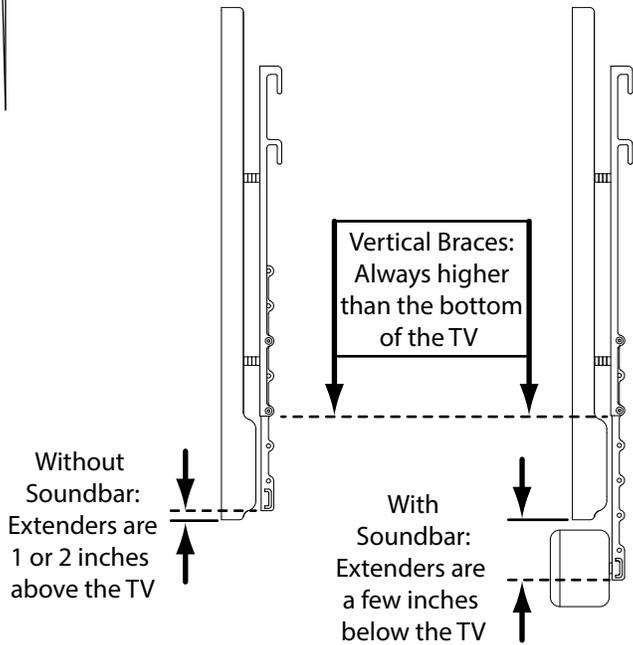
ONE INCH Fixed Distance



5 The Vertical Braces {31} are always mounted higher than the bottom of the TV. However, the Brace Extenders {30} will be mounted one of two ways:

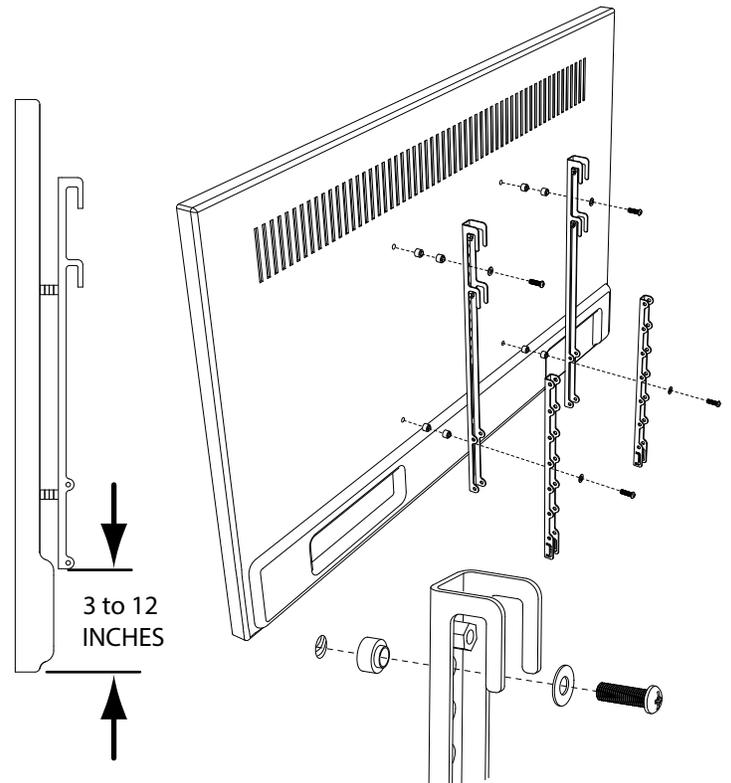
Without a Soundbar - The Brace Extenders are installed within a few inches **above** the bottom of the TV.

With a Sound Bar - The Brace Extenders are installed **below** the TV with enough room to install the Sound Bar onto the Horizontal Brace {34}.

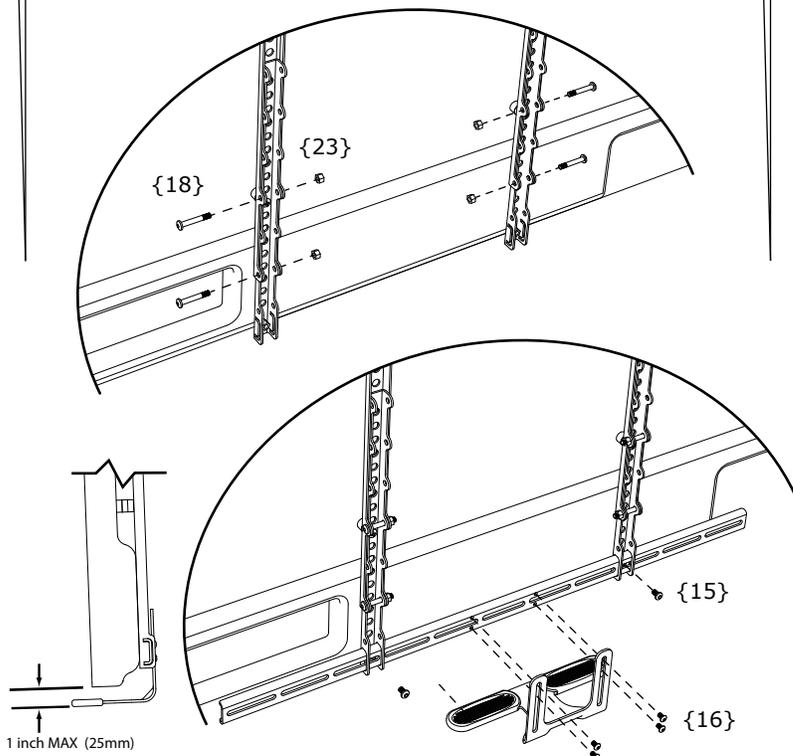


6 Insert the Brace Extenders {30} into the Vertical Braces {31} and attach them both to the TV so the bottoms of the Vertical Braces are higher than the bottom of the TV. Vertically centered on the TV is ideal.

The bottom screws (or possibly all four screws) will pass through both the Vertical Brace and the Brace Extenders.

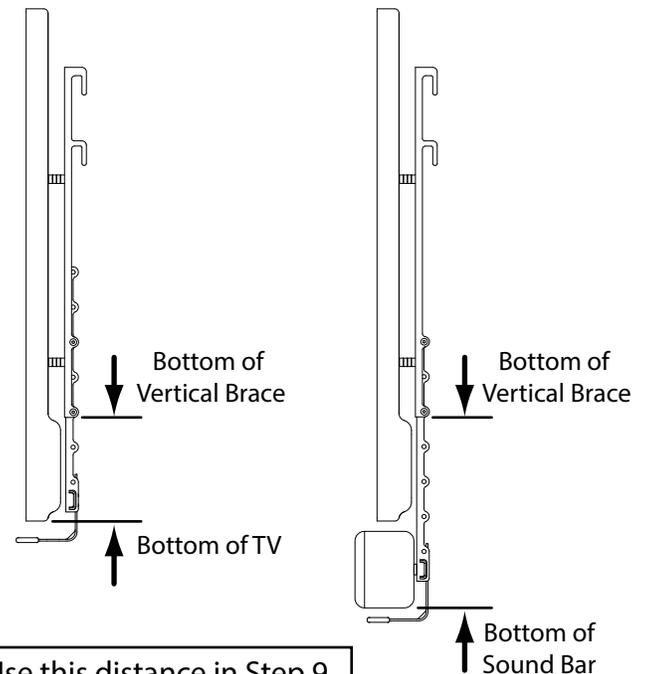


7 Attach the Extenders with Screws {18} and Nuts {23}. Attach the Horizontal Brace {34} with Screws {15}. Attach the Center Handle {28} with Screws {16}, making sure the Handle is within one inch from the bottom of the TV.



8 Measure the distance from the bottom of the Vertical Braces {31} (not the Extenders) to the bottom of television or Sound Bar (not the Center Handle).

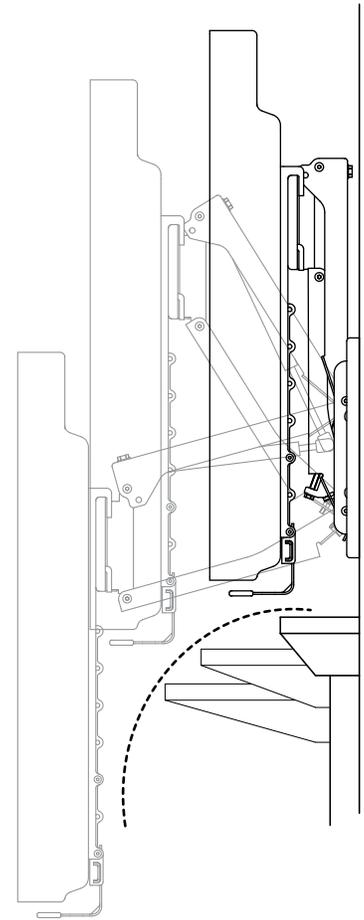
Write down this distance to use in Step 9.



9 Determine the Vertical Position of the Wall Plate:

The image at right shows that the further out a mantle extends, it can interfere with the arc of the lowering TV. MantelMount must be installed a minimum distance above the mantle. This distance is additional to the distance from step 8. See the chart below for the additional height required above the mantle. This dimension will be used in Installation Step 12.

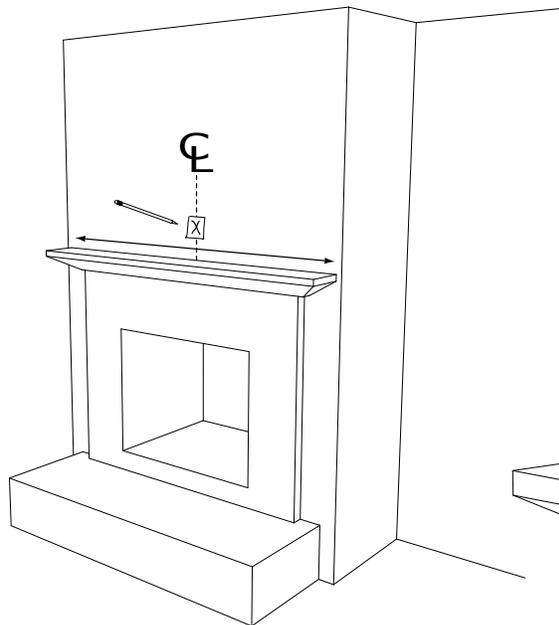
NOTE: If the available wall space above the mantle is close to the required space in the table from "Requirement E" (due to the ceiling, for example) then it is important to use the exact dimensions from this chart. However, if the available wall space above the mantle is much taller than required, then these heights are only *minimum* requirements.



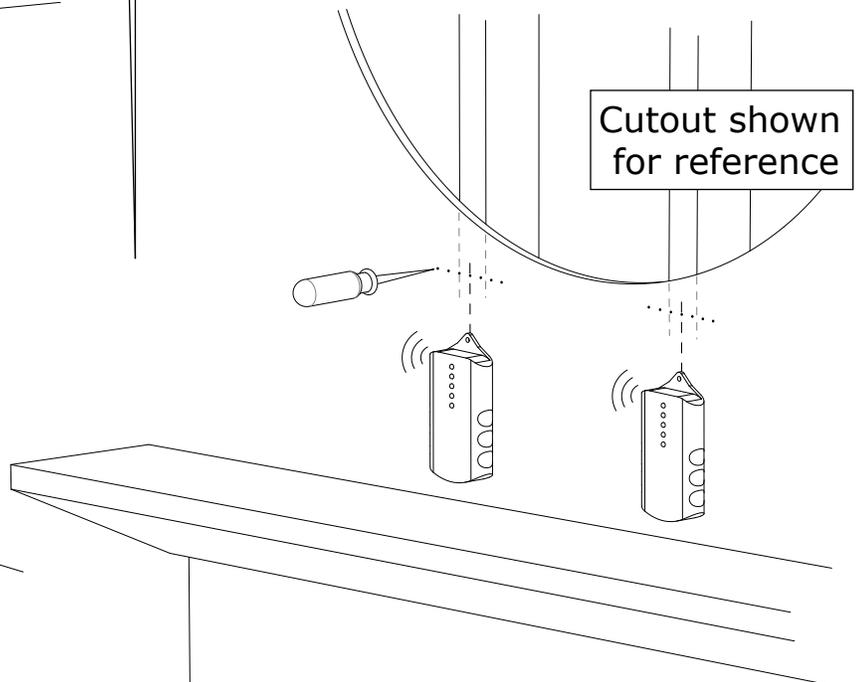
USE THIS CHART FOR INSTALLATION STEP 12:

| If your mantle extends: | Required Installation Height: |
|-------------------------|--|
| Less than 8 inches | Add 2 inches to the distance from Step 8 |
| 8 - 10 inches | Add 4 inches to the distance from Step 8 |
| 10 - 12 inches | Add 5 inches to the distance from Step 8 |
| 12 - 15 inches | Add 7 inches to the distance from Step 8 |

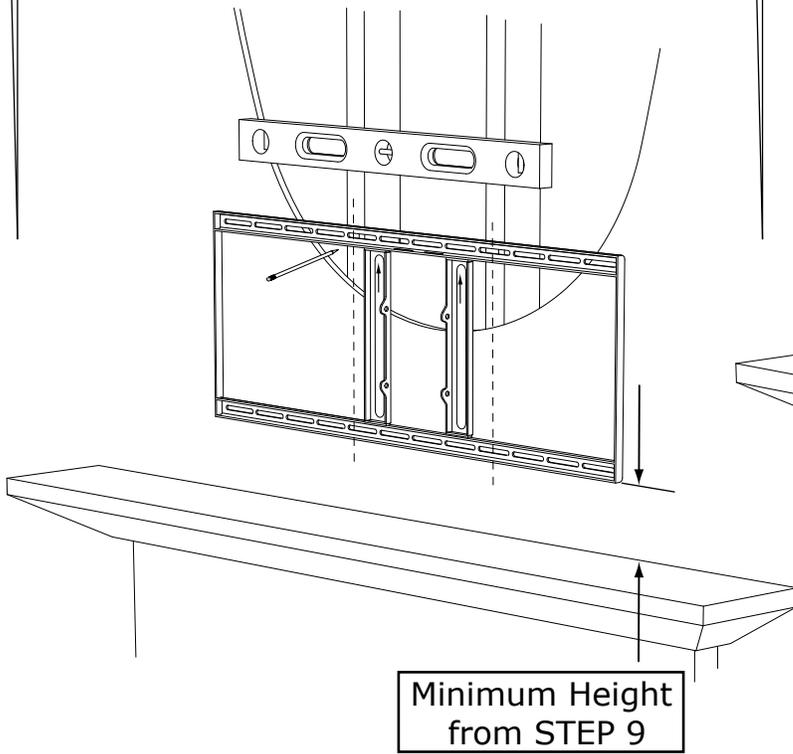
10 Measure the centerline of the mantle. Mark with tape on the wall.



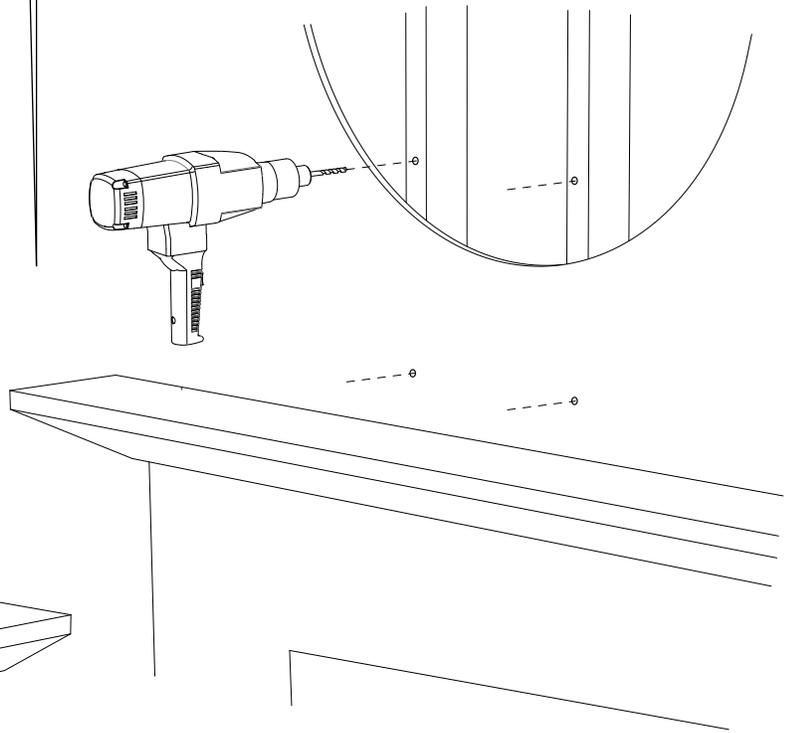
11 Locate at least two studs with a stud finder. Locate the center of these studs by using a sharp awl or finish nail poked through the drywall to locate each edge. Lag bolts must be installed into the CENTER of the studs.



12 Align the arrows on the Wall Plate {32} pointing upward. Center and level the plate above mantle and position the height using the table in STEP 9. Mark the 4 spots for lag bolts directly on center of studs.



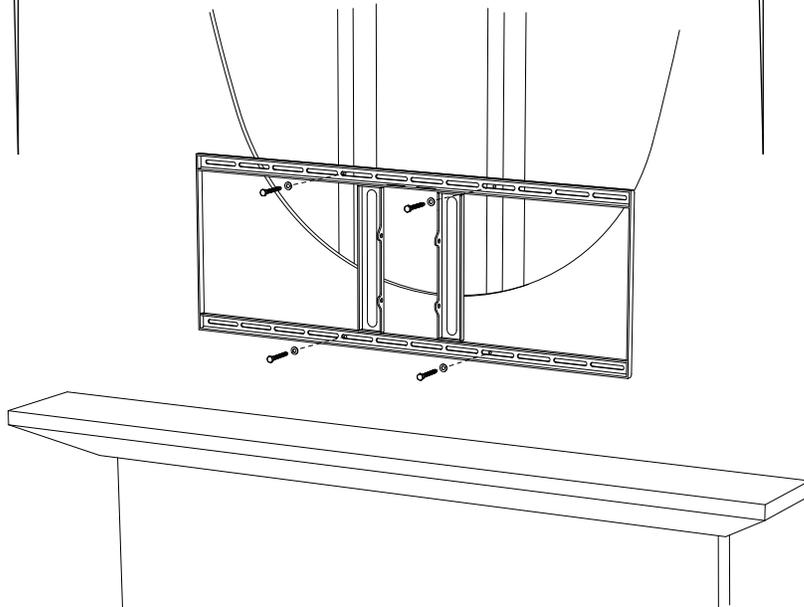
13 Pre drill the 4 holes with 11/64" drill bit to a depth of 2.5 inches (65mm) including wall covering. Note: Wall covering (drywall) must not exceed 5/8" thickness.



14 Attach the Wall Plate {32} using Lag Bolts {17} and Washers {10} directly into the centers of the studs.

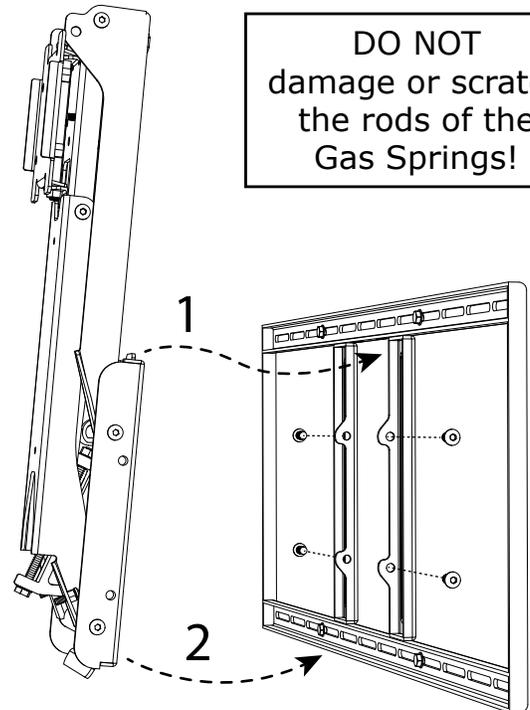
⚠ CAUTION:

Do Not overtighten Lag Bolts {17}. Tighten only until the washers are firmly against the wall plate. Damage due to overtightening can cause property damage or injury.



15 Insert top tabs of Lifting Mechanism {35} into the slots of Wall Plate {32} then slide bottom into position. Align all four holes and install Screws {14}. Tighten Securely.

DO NOT
damage or scratch
the rods of the
Gas Springs!

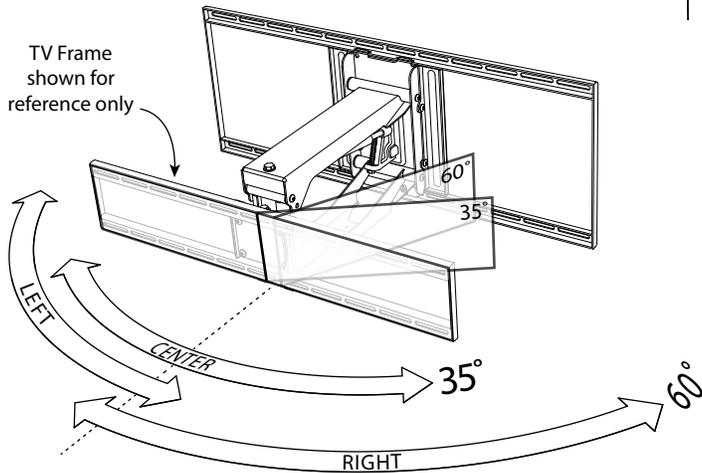


16 Determine the desired swivel setting:

MantelMount is designed to swivel 35° left and 35° right. Most TVs will reach the wall within this amount of swivel.

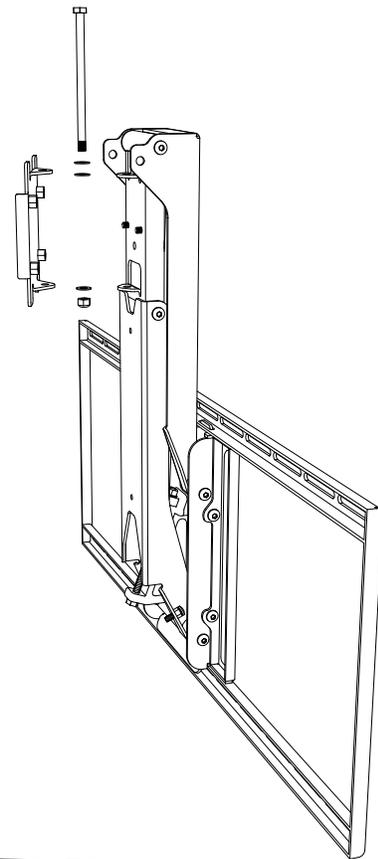
For situations where more swivel to one side is desired, MantelMount includes a Side Swivel Kit that will provide 60° of swivel in either the left or right direction, but not both. This situation is only for a small TV and a mounting situation that does not have a mantel.

If you do not need to add the Side Swivel Kit, skip ahead to Step 20.

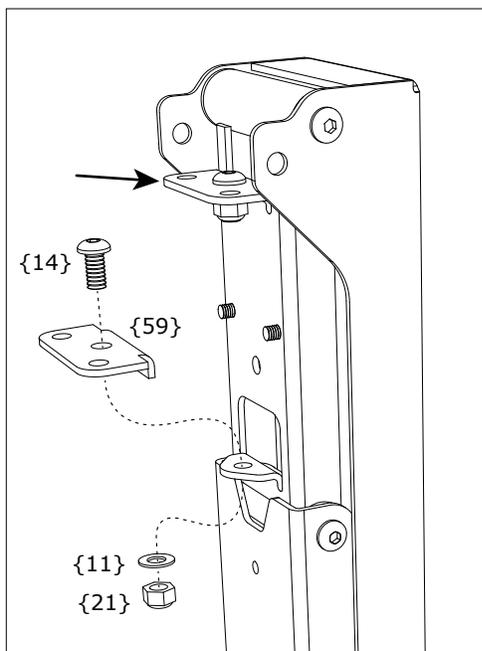


17 Installing the Side Swivel Kit:

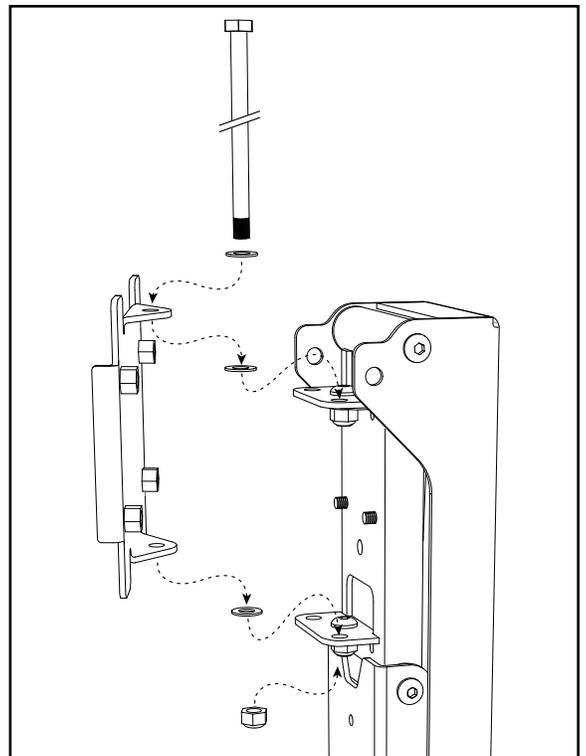
Remove the Swivel TV Plate (Item 51 in the Parts List). Save all of the hardware, it will be re-installed in the same order it is removed.



18 Install both Side Swivel plates onto the Lift Mechanism. The plates nestle on the tops of the existing tabs of the Swivel Bracket.



19 Re-attach the Swivel TV Plate onto the desired side of the Side Swivel plates in the same order that each part came off.



OPTIONAL Signal Cable Routing Boxes {27}: If Signal Cables have already been routed to television location, please skip ahead to step 24. Also, if the mounting wall is an external wall, or if there is no hollow area behind mantle, please skip ahead to step 24.

The next several steps are for the use of optional Routing Boxes {27} included with MantelMount. These boxes allow signal cables (not power cables) to be run inside hidden metal conduit through the framed area enclosing the fireplace, in order to rout signal cables to a side wall. See the image below for a typical installation. Any installation must comply with all local building codes.

These boxes require the purchase of metal conduit, (2 inch I/D.), long enough for the desired location. When purchasing conduit, use the Routing Box to verify size, but do not screw it in very far because it can be difficult to remove. Conduit can be twisted or "unwound" slightly to help position or remove the Routing Box during test-fit or installation. Both ends of the conduit must be cut cleanly with a hacksaw before inserting the Routing Boxes.

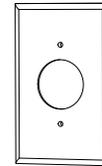
⚠ WARNING

You must verify with local building codes the minimum distance that the conduit must be located away from the fireplace components. See the image below. Failure to obey local building codes can result in property damage and even loss of life.

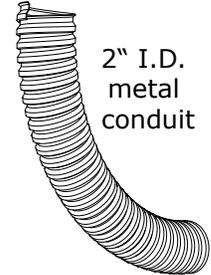
⚠ WARNING

Routing Boxes {27} are for signal cables only. Running power cables next to signal cables can cause signal noise that can affect audio and video performance. Also, your local building codes might not allow power cables to be run through conduit. Failure to obey local building codes can result in property damage and even loss of life.

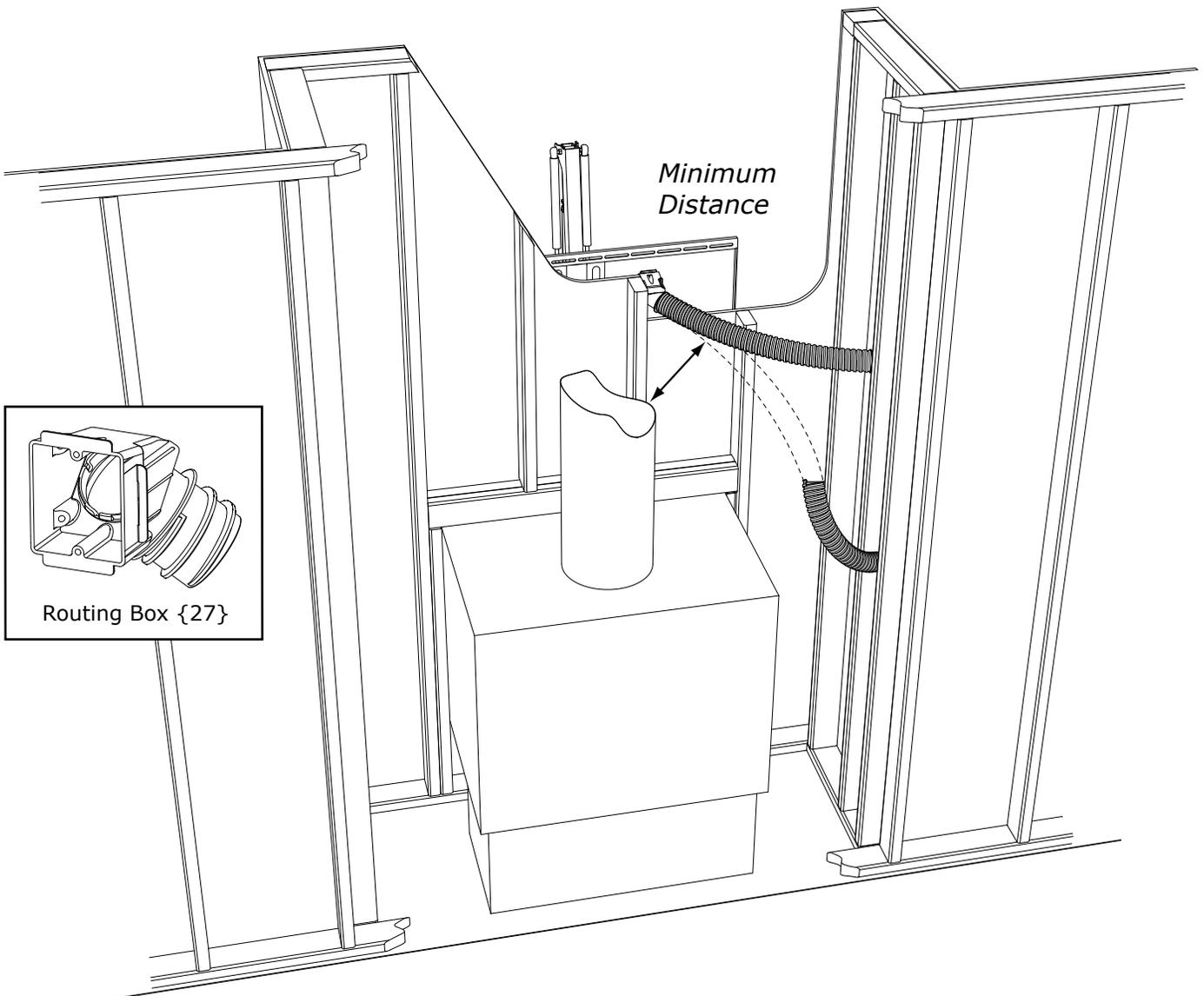
Parts not included:



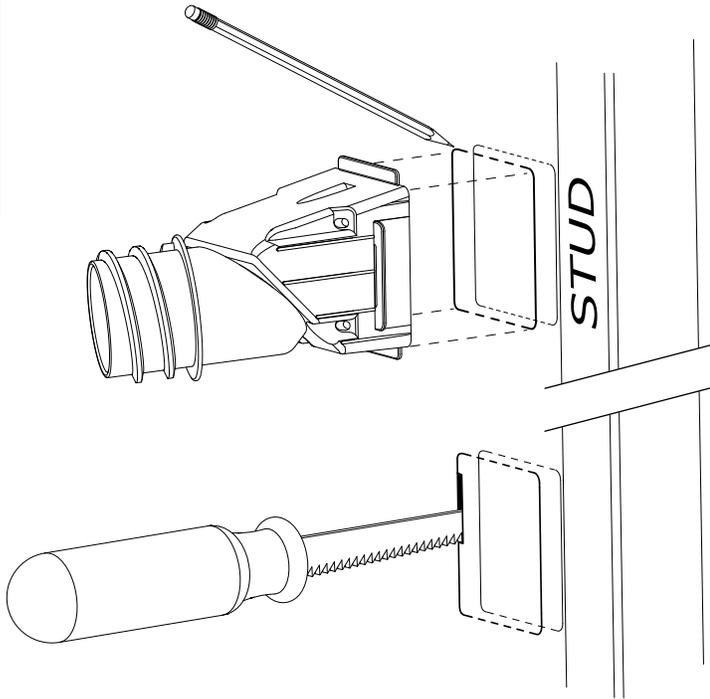
Wall plate
with large hole



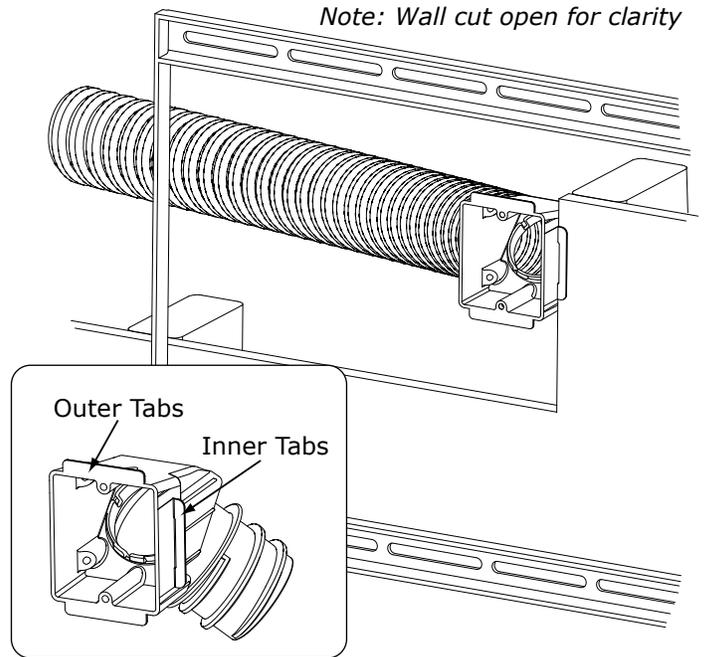
2" I.D.
metal
conduit



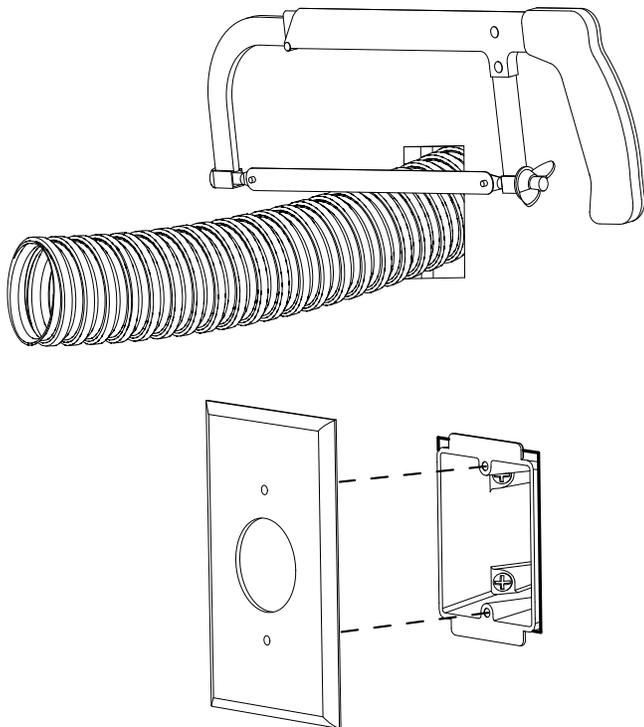
- 20** Trace the Routing Box {27} (but not the tabs) for both desired locations onto the wall along the edge of a stud. Boxes must be mounted to studs. Cut out both openings through the wall covering (drywall) along the studs using a Keyhole Saw.



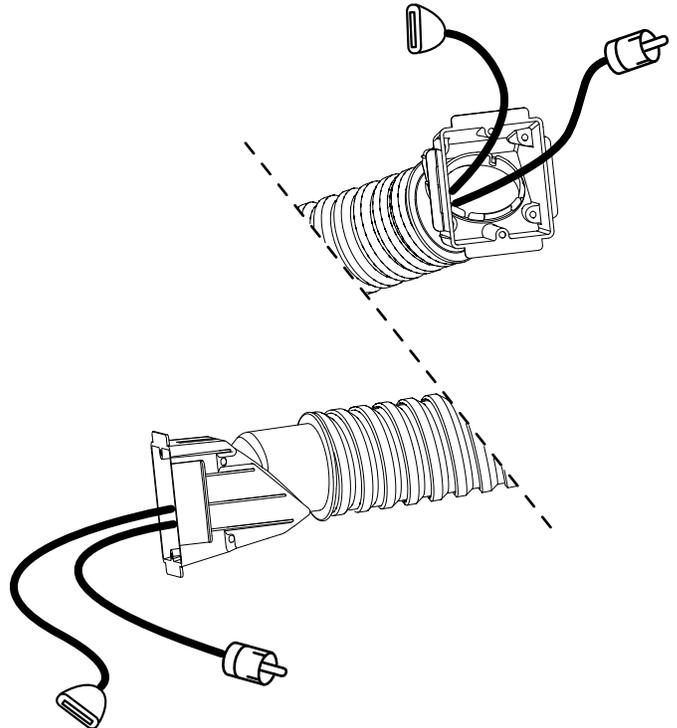
- 21** Attach one end of conduit to the box and install to stud using Screws {19}. If the box is located within the MantelMount Wall Frame {32} as shown below, then use the inner tabs so that the box will protrude out to the Wall Cover {29}. If the box is located outside the area of the Wall Frame then break off the inner tabs and mount flush to the wall using the outer tabs.



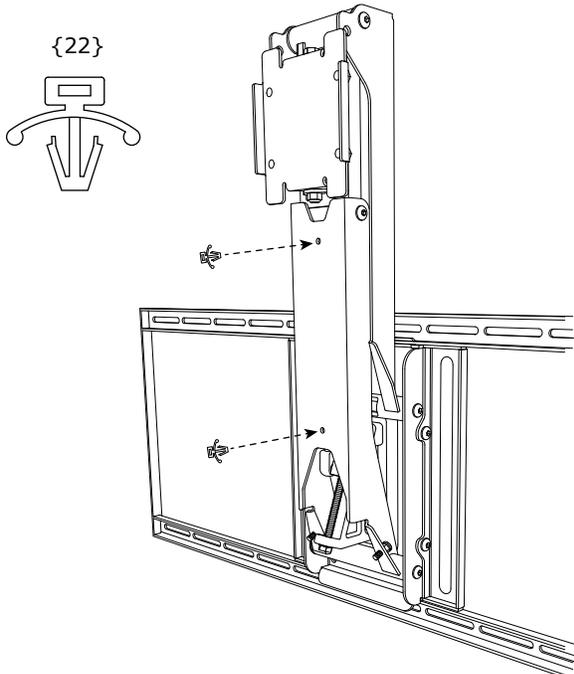
- 22** Feed the conduit through the other opening and cut the other end of conduit to length using a hacksaw. Install the second box to the stud using Screws {19}, and install a cover plate if available.



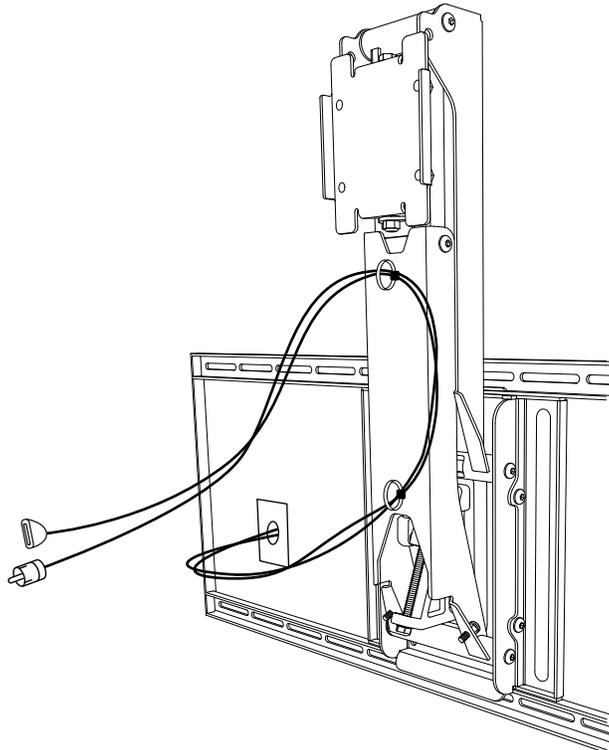
- 23** Signal Cables can usually be fed through the conduit simply by pushing them through from the higher opening to the lower opening.



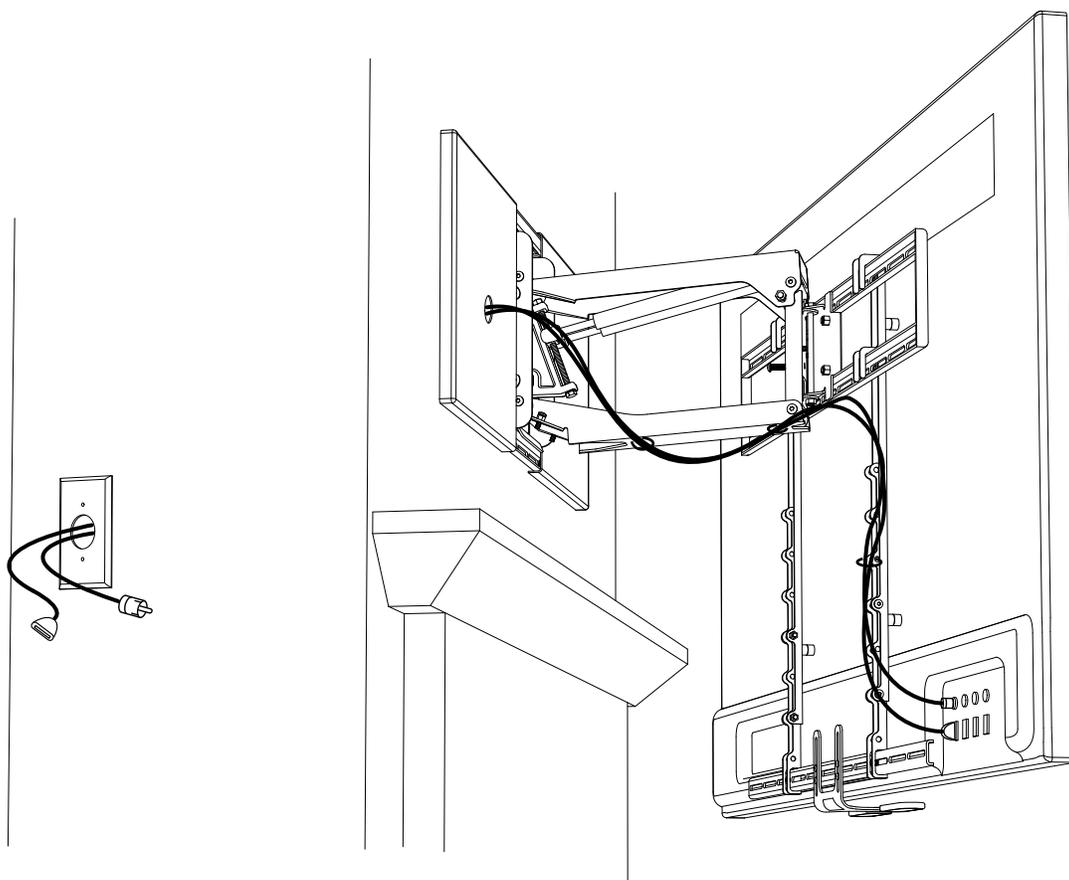
- 24 Insert the two Cable Tie Anchors {22} into the two holes in the Lower Arm of the Lifting Mechanism. Press firmly until they are flat.



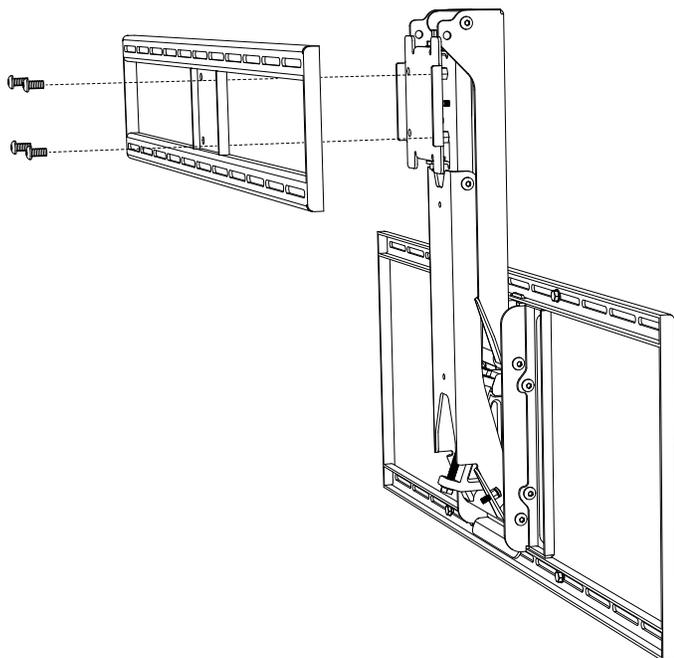
- 25 Shown below is the easiest way to attach cables. Use the included Cable Ties {24} to attach cables so they are sideways to the Lower Arm, making a gentle loop. Cables should be long enough to accommodate the extension and swivel of MantelMount. Check all ranges of motion before tightening the Cable Ties.



Reference Only: This is one possible configuration for the signal cables. Each segment of the cables has extra length so that the cables are not stressed or kinked when the mount is moved.

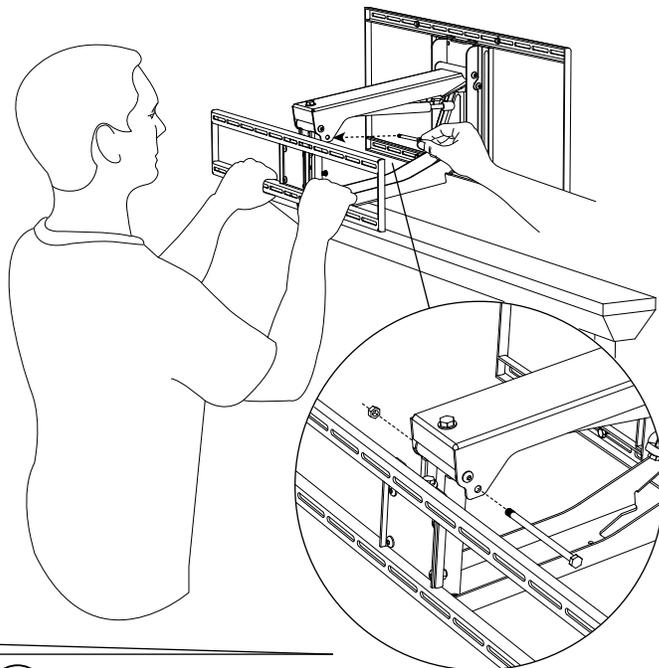


26 Install the TV Brace {33} to the Lifting Mechanism {35} Level the TV Brace and tighten the 4 screws {14}.



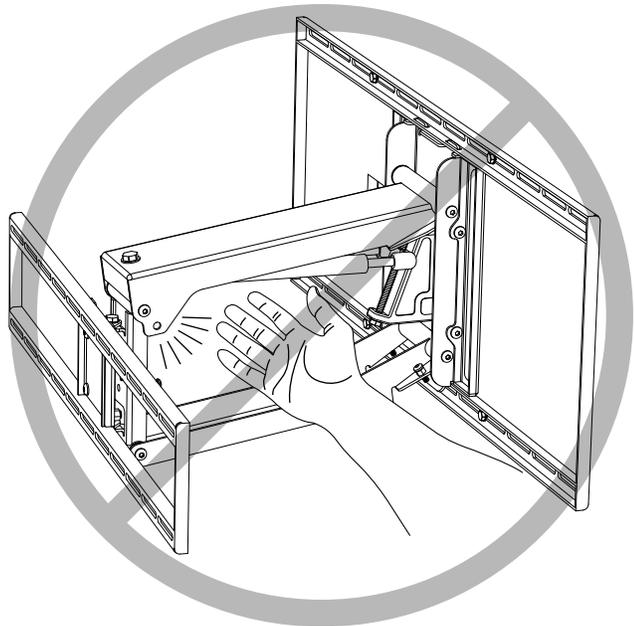
27  THIS STEP REQUIRES TWO PEOPLE

Firmly pull down the TV Brace until the Lifting Mechanism is in a horizontal position. DO NOT HIT THE MANTLE! The second person must insert the Safety Bolt {20} through the Safety Hole in the upper arm and install the Safety Nut {21}. Slowly release the TV Brace. Lifting Mechanism should be held at horizontal position.



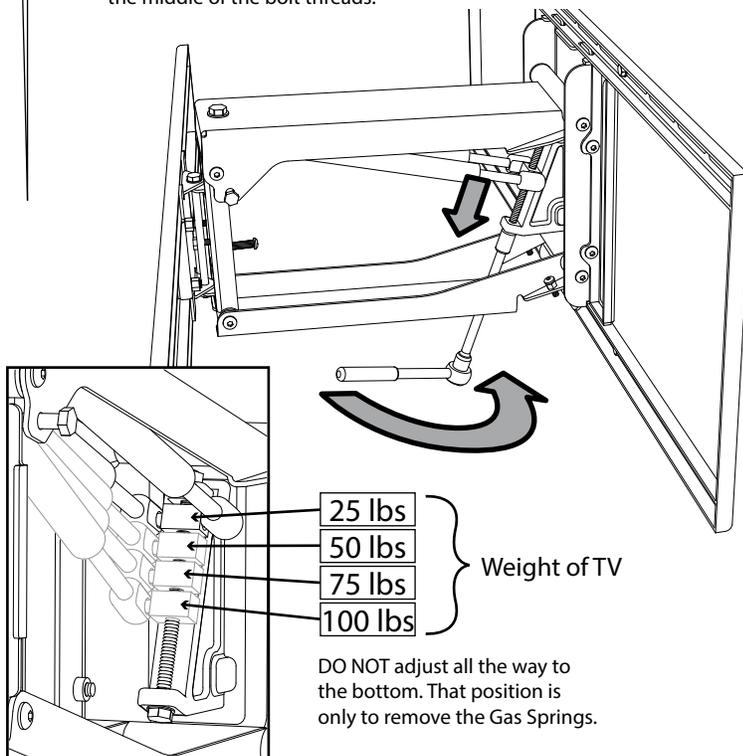
28  **WARNING:**

Do Not put hands into Lifting Mechanism without the Safety Bolt and Safety Nut installed. The power of the Lifting Mechanism can cause bodily injury!



29 PRE-SET THE LIFTING FORCE:

Turn the main bolt CLOCKWISE (while looking at the head of the bolt from underneath) as shown to pull the Gas Springs DOWN for heavy TVs. Rotate the bolt the other way for less lifting force for lighter TVs. See the diagram below for a Pre-Set estimate for the Gas Springs. The lightest lifting force is at the top, and the heaviest is down just below the middle of the bolt threads.



30



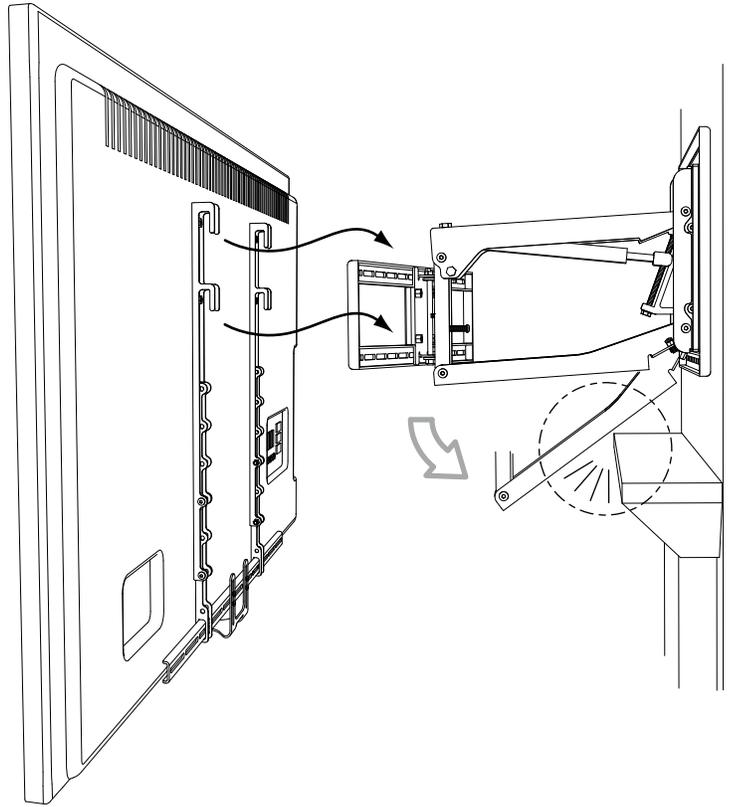
THIS STEP REQUIRES TWO PEOPLE

Carefully hang the Television onto the TV Brace making sure that all four hooks on the Vertical Braces {31} engage the TV Brace.

DO NOT allow the Television to drop far enough to cause the Lifting Mechanism {35} to hit the mantle.

MantelMount comes pre-adjusted to reduce the possibility of contacting the mantle, but you should always be prepared to remove the television at this stage to make the proper correction.

If the Lifting Mechanism {35} appears to be too close to the mantle, remove television. Go to STEP 33 and make an adjustment to the Bottom Stop position. Repeat this process until the Lifting Mechanism is a safe distance from the mantle when the TV is installed.

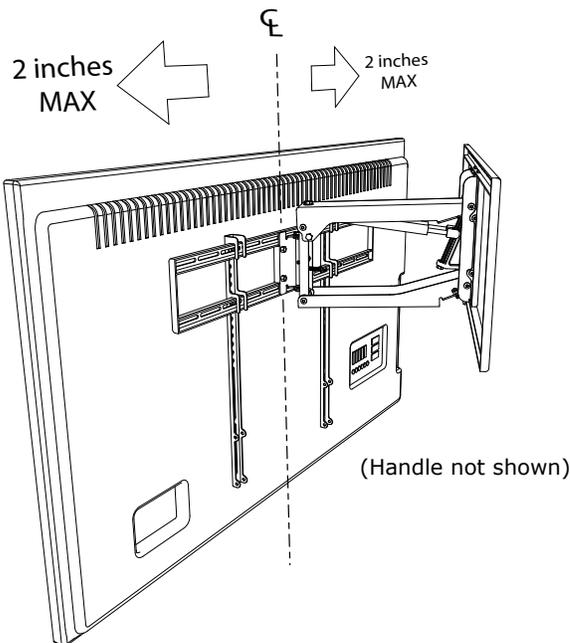


31

Center the TV on the TV Frame and check it with a level. Carefully slide the TV sideways, if required, until it is balanced and horizontal, up to a **MAXIMUM OF 2 INCHES** left or right.

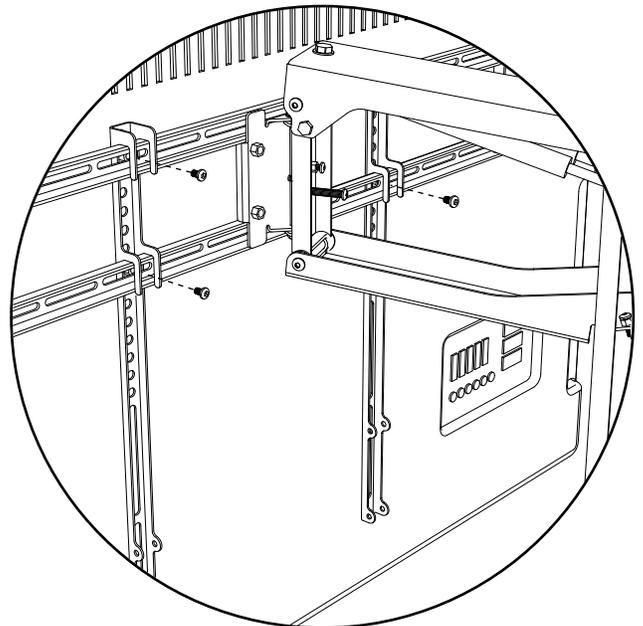
The TV would only need to be moved off-center if it has an unbalanced weight. These are usually older, heavier TVs.

If the TV needs to be moved sideways and is visually too much off-center above the mantle, remove the TV and relocate the Wall Plate {32} an equal distance but in the opposite direction of the TV to compensate.



32

Install 4 Screws {15} through the TV Brace {33} and into the Vertical Braces {31}.

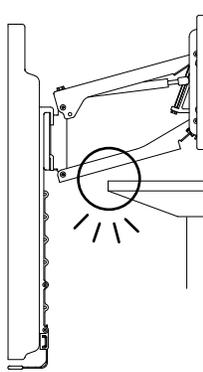


Adjusting for Travel Stops and Television Weight:

33 Adjusting the Bottom Stop Position:
Loosen the Locknuts and adjust the Bottom Stop screws to the desired stopping position.

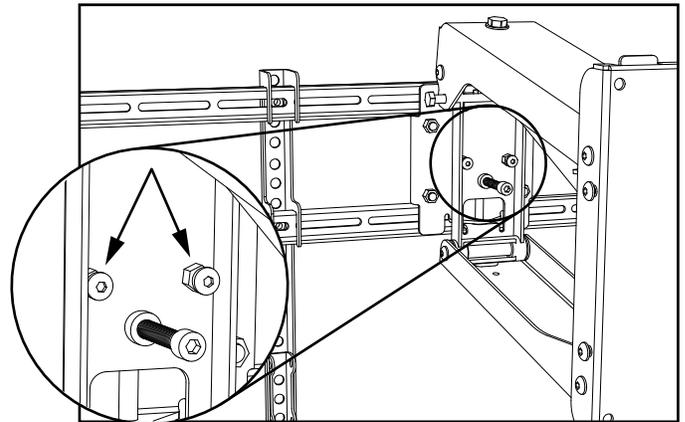
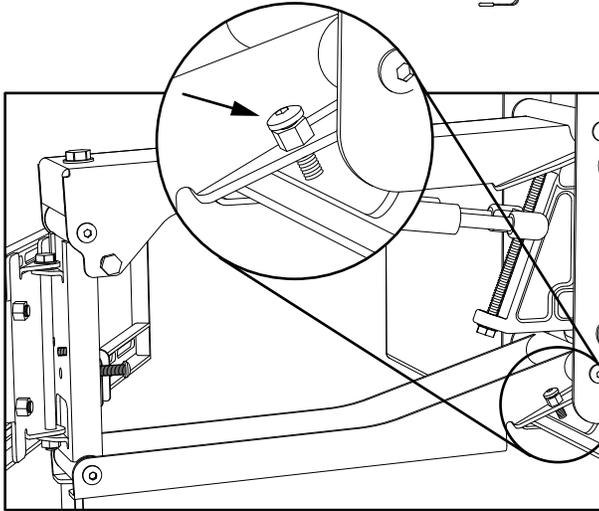
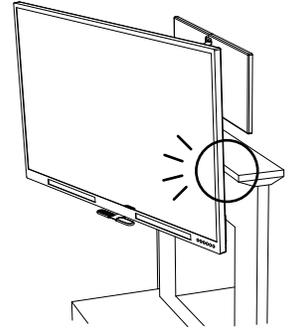
There is one screw on each side of the Lifting Mechanism. Make sure to balance both sides evenly so the TV is level in the DOWN position.

Tighten both locknuts after the adjustments are made.



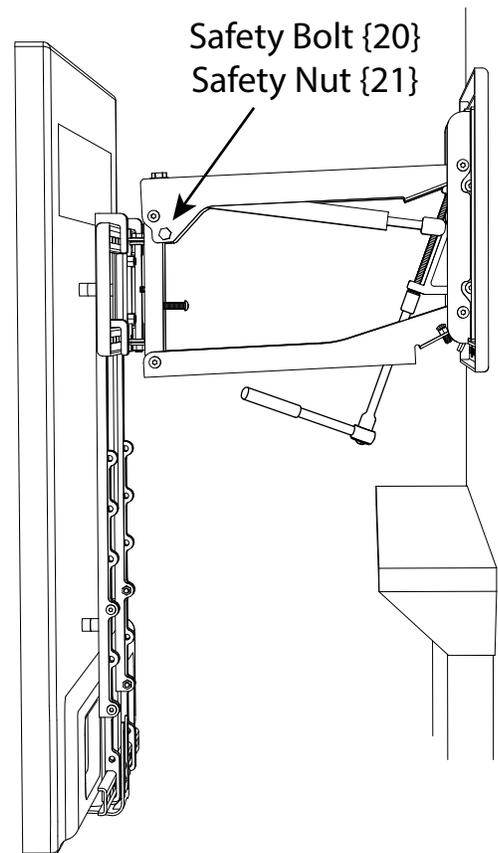
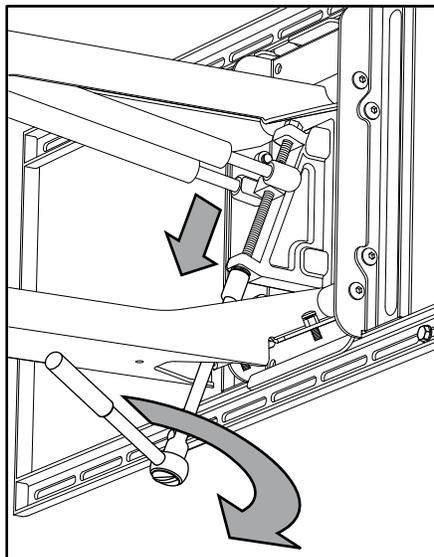
34 Adjusting the Side Swivel Stop Positions:
Loosen the Locknuts and adjust the Swivel Stop screws to the desired stopping positions, both left and right.

Tighten both locknuts after the adjustments are made.

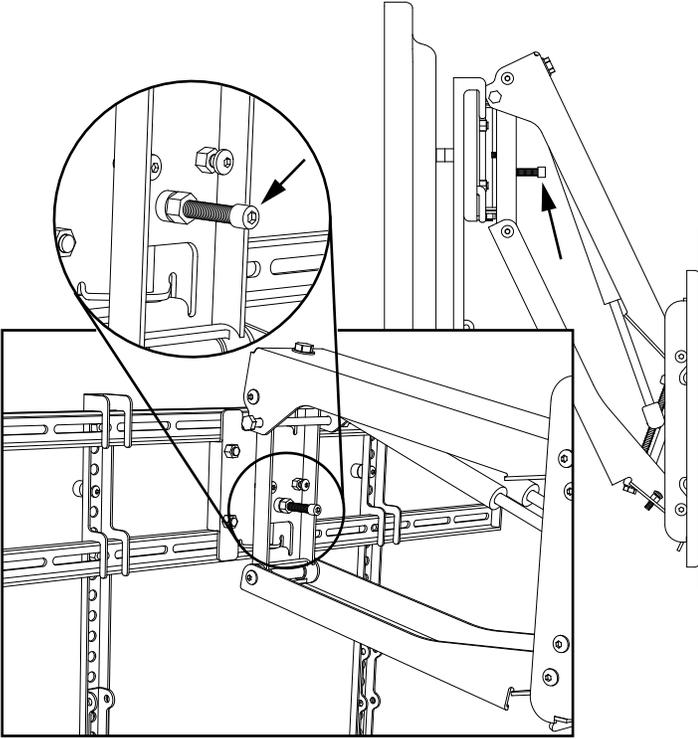


35 Adjusting for Television weight: With Safety Bolt {20} in place, use a socket wrench with an extension to adjust the long bolt inside the Lifting Mechanism {35}. Turn the bolt clockwise (AS SHOWN BELOW) to pull the Gas Springs down and increase the lifting force for heavy TVs, or turn counter-clockwise for lighter TVs. This adjustment can take several turns. (Reference Step 29.)

Adjust the bolt until the TV gently stays in the lowered position. Move the TV up and down within the range below the Safety Bolt. The TV should almost stay up against the Safety Bolt, but should be easily lowered to the Bottom Stop.

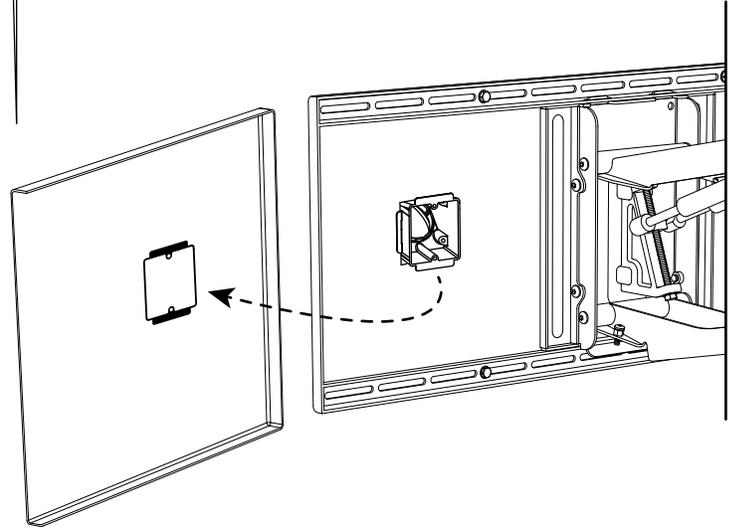


- 36 Adjusting the Vertical Tilt Position:**
The large screw inside the Lifting Mechanism will add or remove a small amount of vertical tilt for the TV. The screw is backed out to stop the TV from tilting. Do not turn the screw in more than finger snug. Tighten Locknut when finished.

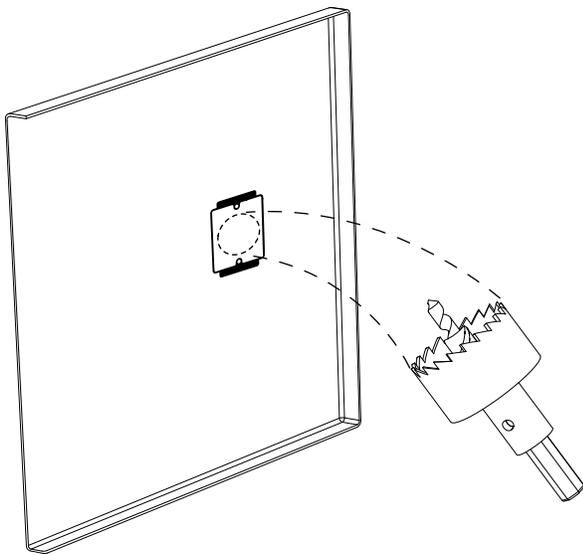


- 37** (Steps 37 and 38 only apply if the cable box was installed inside the area of the Wall Frame, which will require an access hole through the Wall Cover.)

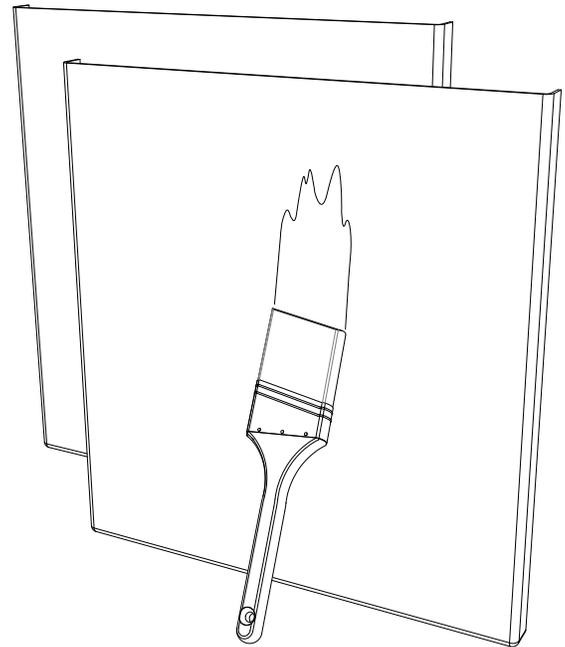
Measure carefully OR use transfer paint (similar to lipstick) to transfer the box location onto the Wall Cover {29}.



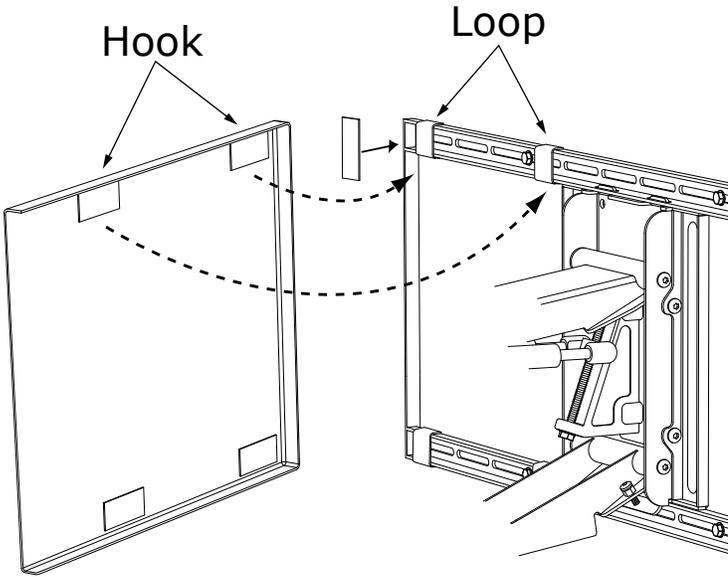
- 38** Use 1.5 inch Hole Saw drill bit to cut a hole through the Wall Cover {29} directly in the center of the marked area. Be careful not to damage the edge around the hole.



- 39** Paint the Wall Covers {29} if desired.

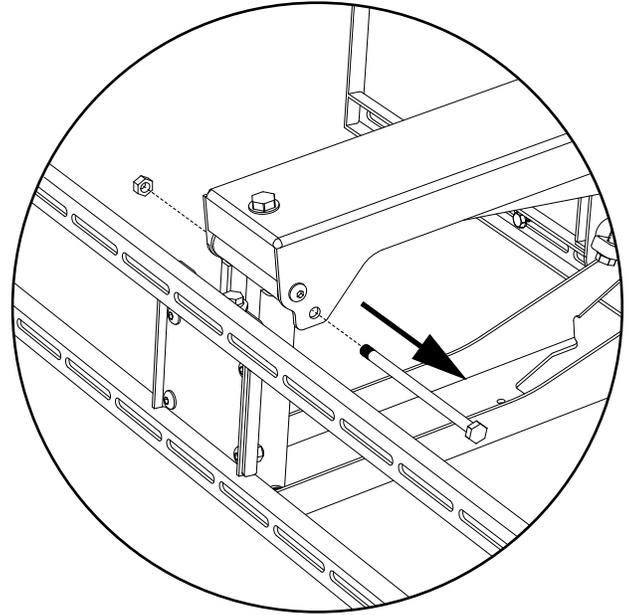


- 40** Install the Wall Covers using the included adhesive Velcro strips as shown below. Apply Loop {26} pieces to the Wall Frame, and the Hook {25} pieces to the Wall Covers.



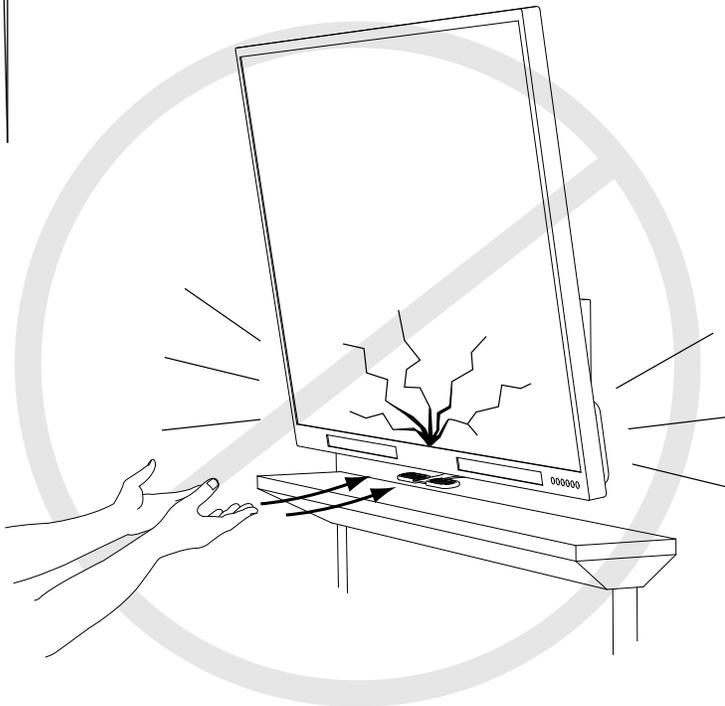
- 41** With the television in the lowered position, remove the Safety Nut {21} and Safety Bolt {20} from the Lifting Mechanism {35}.

KEEP THIS BOLT AND NUT in a safe place for use in the future. They are needed to remove the television or change the Gas Springs. Recommendation: Tape them to the inside of the Wall Cover {29}.



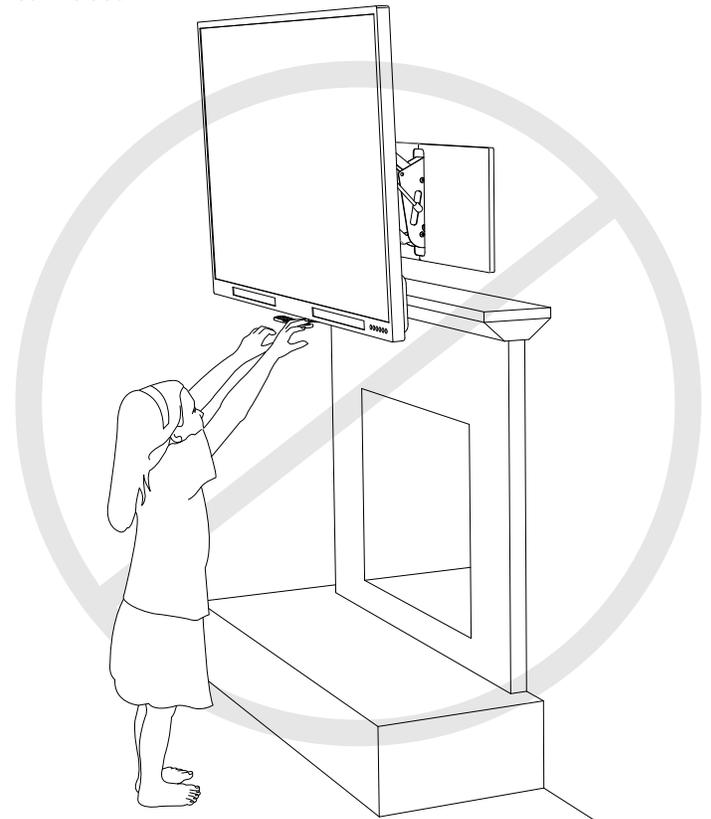
! CAUTION:

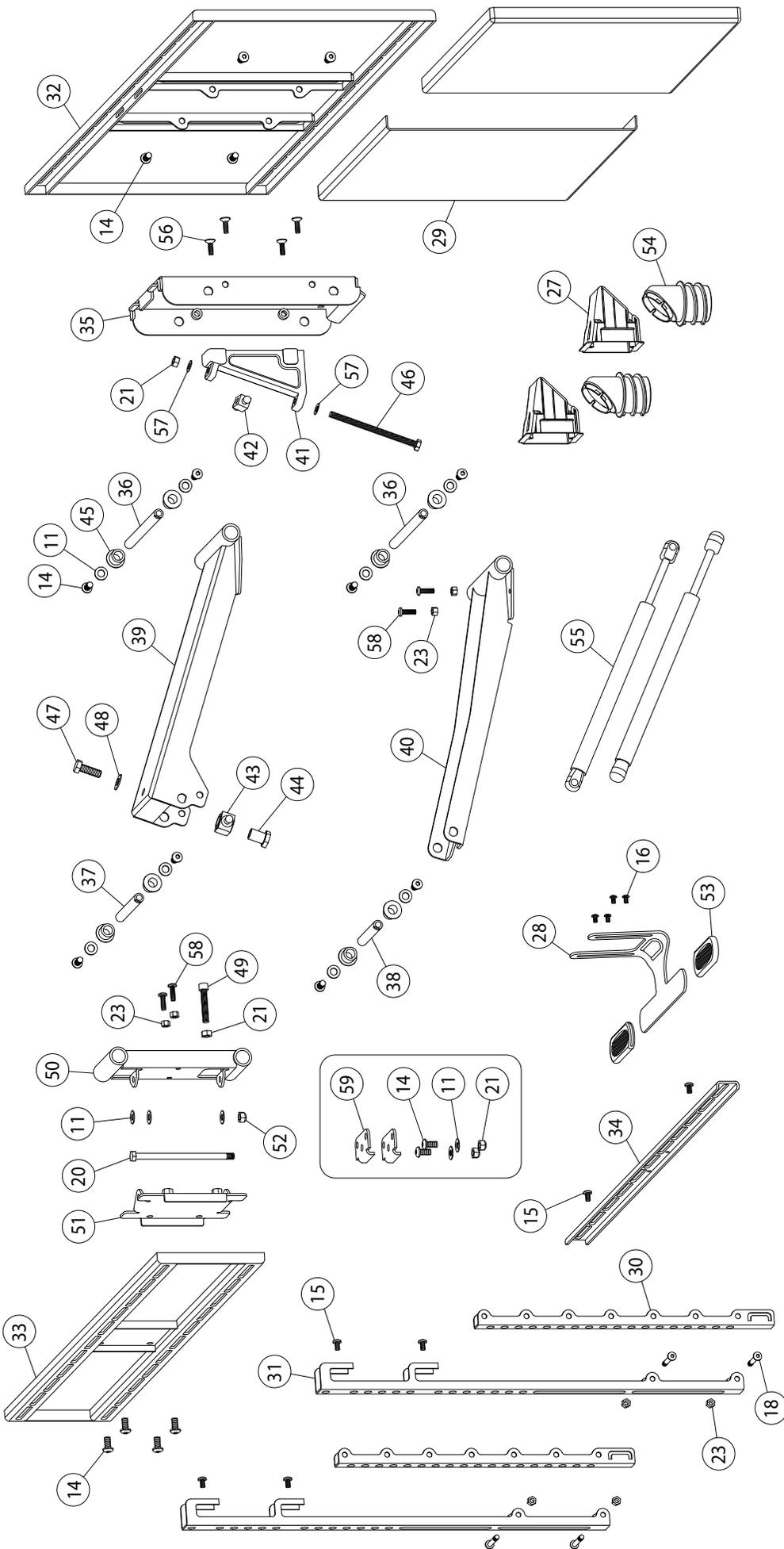
Never release the handle before it is fully upright. MantelMount is strongest in the top position, and allowing it to slam closed can damage televisions. Always control the lifting process.



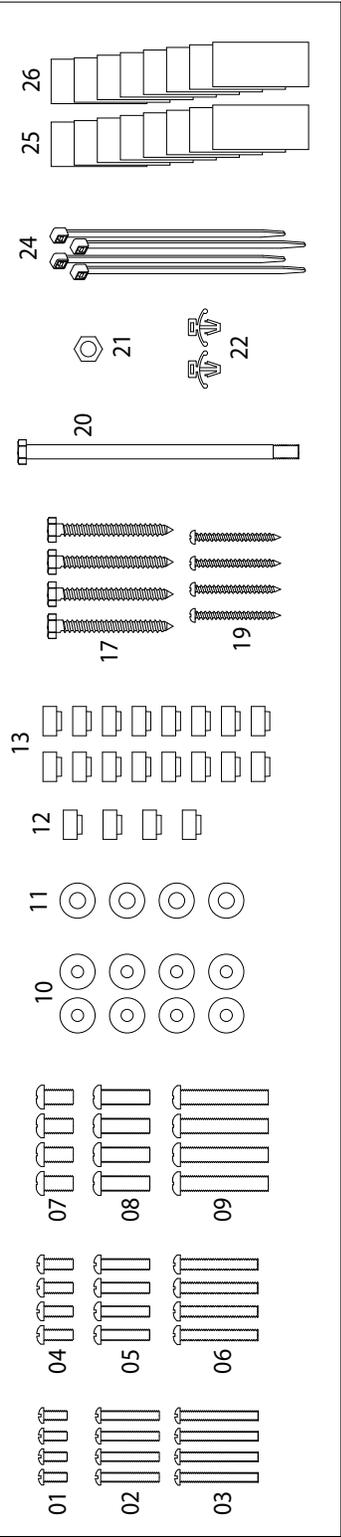
! CAUTION:

Never allow children to play around or operate MantelMount. Property damage or personal injury can occur.





Additional Installation Parts

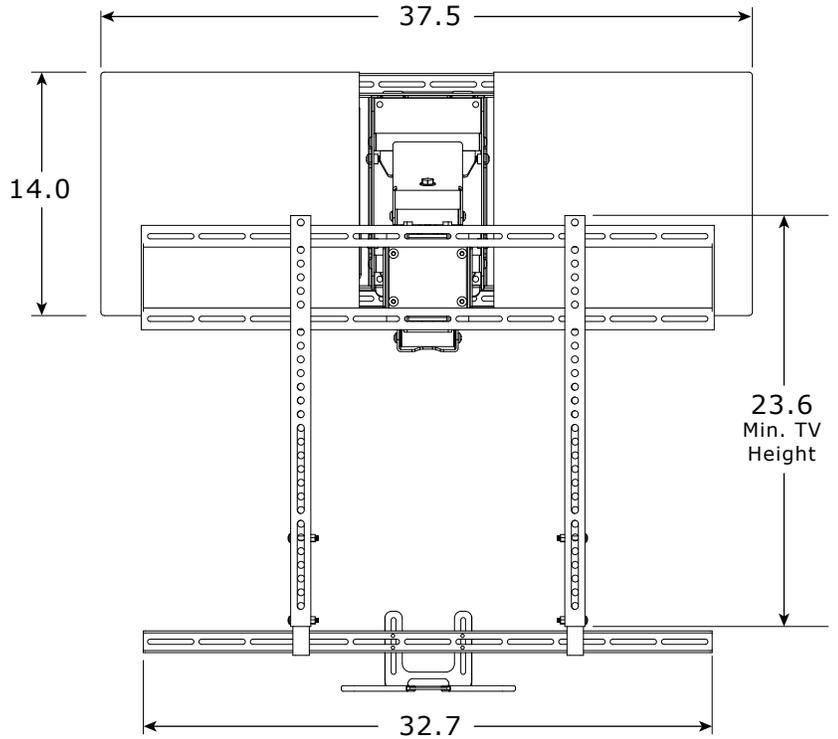
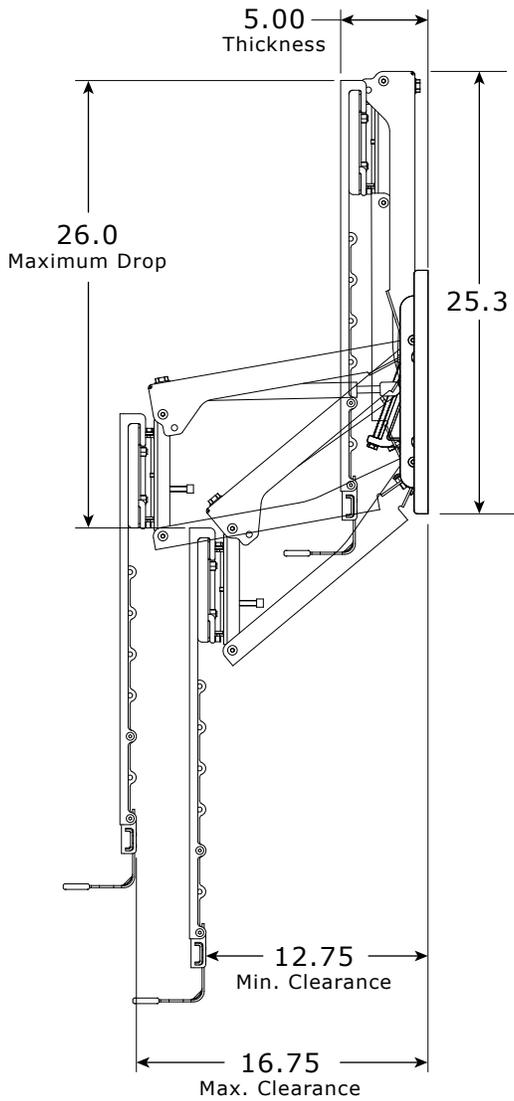


INSTRUCTION MANUAL

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------|------|
| 1 | 12189 | M5 x 12 | 4 |
| 2 | 12190 | M5 x 30 | 4 |
| 3 | 12191 | M5 x 40 | 4 |
| 4 | 12193 | M6 x 16 | 4 |
| 5 | 12194 | M6 x 30 | 4 |
| 6 | 12195 | M6 x 40 | 4 |
| 7 | 12197 | M8 x 15 | 4 |
| 8 | 12198 | M8 x 25 | 4 |
| 9 | 12199 | M8 x 45 | 4 |
| 10 | 12166 | Washer M6 | 8 |
| 11 | 12167 | Washer M8 | 17 |
| 12 | 12116 | Spacer M6 | 4 |
| 13 | 12118 | Spacer M8 | 16 |
| 14 | 12176 | Round Head Screw M8 x 16 | 18 |
| 15 | 12178 | Round Head Screw M6 x 10 | 6 |
| 16 | 12180 | Round Head Screw M5 x 8 | 4 |
| 17 | 12154 | Lag Bolt 60mm | 4 |
| 18 | 12255 | Round Head Screw M6 x 40 | 4 |
| 19 | 12157 | Wood Screw 50mm | 4 |
| 20 | 14140 | Hex Bolt M8 x 140 | 2 |
| 21 | 12186 | Nut M8 | 5 |
| 22 | 14110 | Cable Tie Anchor | 2 |
| 23 | 12185 | Nut M6 | 8 |
| 24 | 12162 | Tie Wrap | 4 |
| 25 | 12139 | Velcro Strip HOOK | 8 |
| 26 | 12141 | Velcro Strip LOOP | 8 |
| 27 | 12130 | Electrical Box | 2 |
| 28 | 12035 | Center Handle | 1 |
| 29 | 12113 | Wall Cover | 2 |
| 30 | 13042 | TV Brace Extender | 2 |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------|------|
| 31 | 13039 | TV Vertical Brace | 2 |
| 32 | 13011 | Wall Frame | 1 |
| 33 | 13029 | TV Frame | 1 |
| 34 | 13044 | TV Horizontal Brace | 1 |
| 35 | 13013 | Wall Bracket | 1 |
| 36 | 13064 | Shaft 164mm | 2 |
| 37 | 13062 | Shaft 102mm | 1 |
| 38 | 13059 | Shaft 89mm | 1 |
| 39 | 13018 | Upper Arm, Welded | 1 |
| 40 | 13020 | Lower Arm | 1 |
| 41 | 13024 | Adjustment Block | 1 |
| 42 | 12220 | Sliding Block | 1 |
| 43 | 13033 | Pivot Spring Mount | 1 |
| 44 | 12257 | Pivot Spring Shaft | 1 |
| 45 | 12115 | Bushing | 8 |
| 46 | 13066 | Hex Bolt M8 x 145 | 1 |
| 47 | 14130 | Hex Bolt M10 x 30 | 1 |
| 48 | 14128 | Washer, M10 | 1 |
| 49 | 12172 | Cap Screw M8 x 50 | 1 |
| 50 | 13026 | Swivel Bracket | 1 |
| 51 | 13036 | Swivel TV Plate | 1 |
| 52 | 12187 | Locknut M8 | 1 |
| 53 | 12120 | Handle Grip | 2 |
| 54 | 12128 | Electrical Swivel | 2 |
| 55 | 12160 | Gas Spring | 2 |
| 56 | 12184 | Flat Screw M6 x 16 | 4 |
| 57 | 12247 | Disk Spring Washer | 2 |
| 58 | 12253 | Round Head Screw M6 x 20 | 4 |
| 59 | 13031 | Swivel Extender | 2 |
| 60 | MM700M | Instruction Manual | 1 |

customer service:
 (800)-897-9755
 www.MantleMount.com



Auto-Stabilization:
 Pivot automatically balances
 the force of the Gas Springs
 so the mount stays level

Auto-Straightening:
 Flattens the TV as it is raised
 to the upper position to prevent
 rotation into the wall

Wall Covers:
 Can be painted to match the
 wall and conceal the mount
 frame

Temperature-Sensing Handles: Change
 to red color at temperatures above 110°F
 to warn users that the fireplace is too hot
 for TV safety

