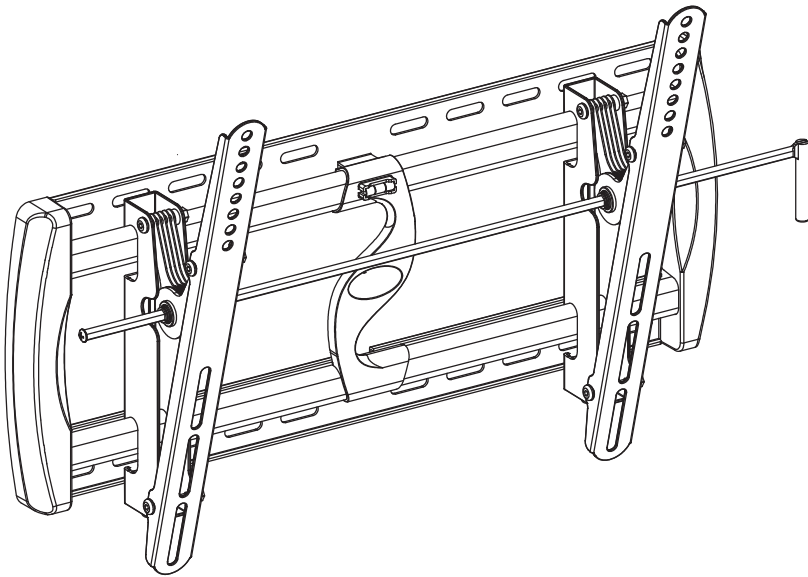


Tilting Flat Panel Wall Mount

ATEC Installation Guide

Model: A590TM



- Easy installation
- Low profile
- Built-in level for easy positioning
- Safety locks secure the TV on the mount
- Easy to adjust tilt angles: +0 to -15 degrees



- Supports most 46"- 110" Flat Panel TVs
- Maximum Weight Capacity: 132 lbs.
- Supports VESA Sizes up to 700x600

**For technical assistance or troubleshooting
please call 1-800-936-1168**



This product Wall Mount frame is intended for use only with an apparatus which has a maximum weight of 132 lbs. See apparatus instructions. Using with an apparatus heavier than the maximum weight indicated may result in instability and cause possible injury.

READ THIS FIRST

Read this entire manual! Do not attempt to install this product if you do not understand the instructions. Contact a qualified mount installer if you have any doubts about a safe and secure mount installation, or if you are not sure what specific wall materials you are attaching this mount to. Check all the parts carefully to make sure there are no missing or damaged parts. Improper installation may result in damage to your TV, property, and personal injury.



This product is intended only to mount a television of the indicated size and weight. Using this product to mount televisions heavier than the maximum weight capacity can damage equipment and cause personal injury.

Schoenfeld International Inc. and ATEC are not responsible for personal injury or product damage due to mishandling, incorrect mounting, incorrect assembly, or incorrect use of this product.



CHILD SAFETY

How and where you use your television wall mount is extremely important for Child Safety. As you set up and use your new product, keep all of these safety tips in mind.

- **One size of TV wall mount does not fit all TVs. Use only a TV wall mount rated for the weight of your TV and the size of your screen. Your TV wall mount assembly instructions contains specific information on the maximum weight and screen size combination that your wall mount can safely support. Do not exceed the maximum weight of screen size for any TV wall mount.**
- **Carefully read all of enclosed instructions for proper use of this product. If you have any doubts about safe and secure assembly, please contact a professional.**
- **Don't let children climb on or play with mounts or TVs.**
- **Remember that children can become excited while watching a program, especially on a "larger than life" TV. Make sure to place or install the TV wall mount where it cannot be pushed, pulled on, or knocked down.**
- **Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.**



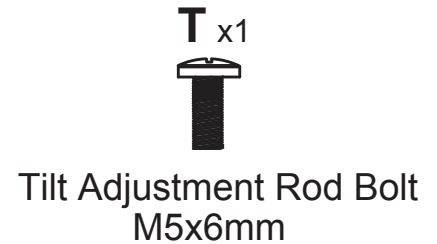
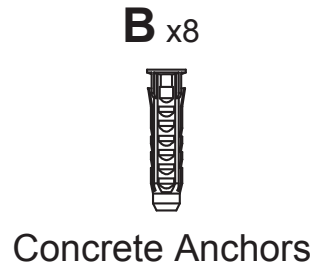
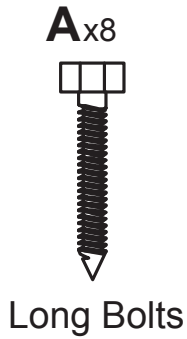
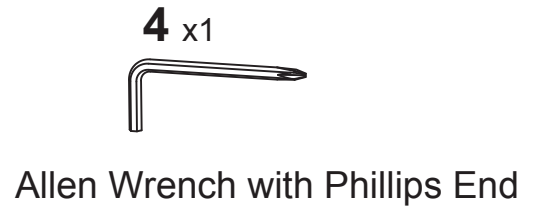
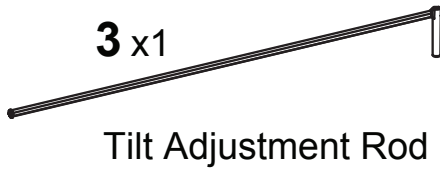
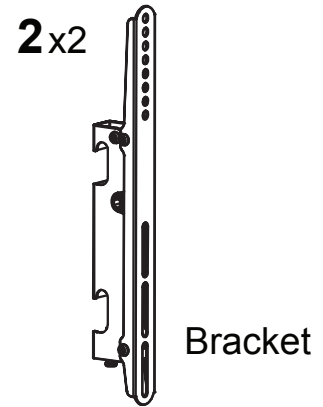
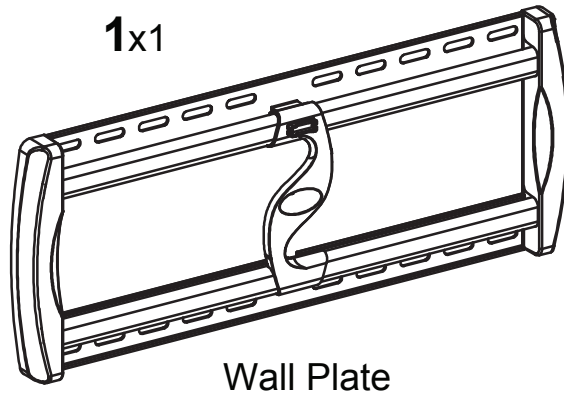
Always wear safety goggles to when drilling or installing hardware.

Tools

For your convenience, we have included an allen wrench with this mount. For the best assembly experience and mounting safety, we always recommend using full-size tools for each assembly step.

Below is a recommended tool list you will need for proper and safe installation. See applicable warnings in this manual about certain types of mounting surface materials and the special hardware and tools that should be used.

- **Drill with a specific size drill bit to pre-drill holes in the wall**
- **Stud finder**
- **Tape measure**
- **Pencil**
- **Screw drivers**
- **Socket wrenches**
- **Small hammer**
- **Safety goggles**



ID	Qty	Description
1	1	Wall Plate
2	2	Brackets
3	1	Tilt Adjustment Rod
4	1	Allen Wrench
A	8	Long Bolts
B	8	Concrete Anchors
C	8	Long Bolt Washers
D	4	M4x20mm Bolts
E	4	M4x30mm Bolts
F	4	M5x20mm Bolts
G	4	M5x30mm Bolts
H	4	M6x25mm Bolts

ID	Qty	Description
I	4	M6x40mm Bolts
J	4	M6x50mm Bolts
K	4	M8x25mm Bolts
L	4	M8x45mm Bolts
M	4	M8x55mm Bolts
N	4	10mm Spacers
O	4	17mm Spacers
P	4	22mm Spacers
Q	4	M4/M5 Washers
R	12	M6/M8 Washers
S	1	Socket Tool
T	1	Tilt Adjustment Rod Bolt

Attach the Tilt Adjustment Rod

Lay the **Brackets (2)** on a flat surface with the flat side laying down. Insert the **Tilt Adjustment Rod (3)** into the outer hole in the side of either **Bracket (2)** as shown in Fig. 1a below.

The Handle of the **Tilt Adjustment Rod (3)** can be located on either side of the TV. Make sure the Handle will be on the side of the TV you will be able to easily access the Handle. You will need to turn the Handle to adjust the tilt angle of the TV.

Carefully push the **Tilt Adjustment Rod (3)** through both holes on each **Bracket (2)**.

Insert the **Tilt Adjustment Rod Bolt (T)** into the Tilt Adjustment Rod (3) and tighten with the phillips end of the **Allen Wrench (4)**.

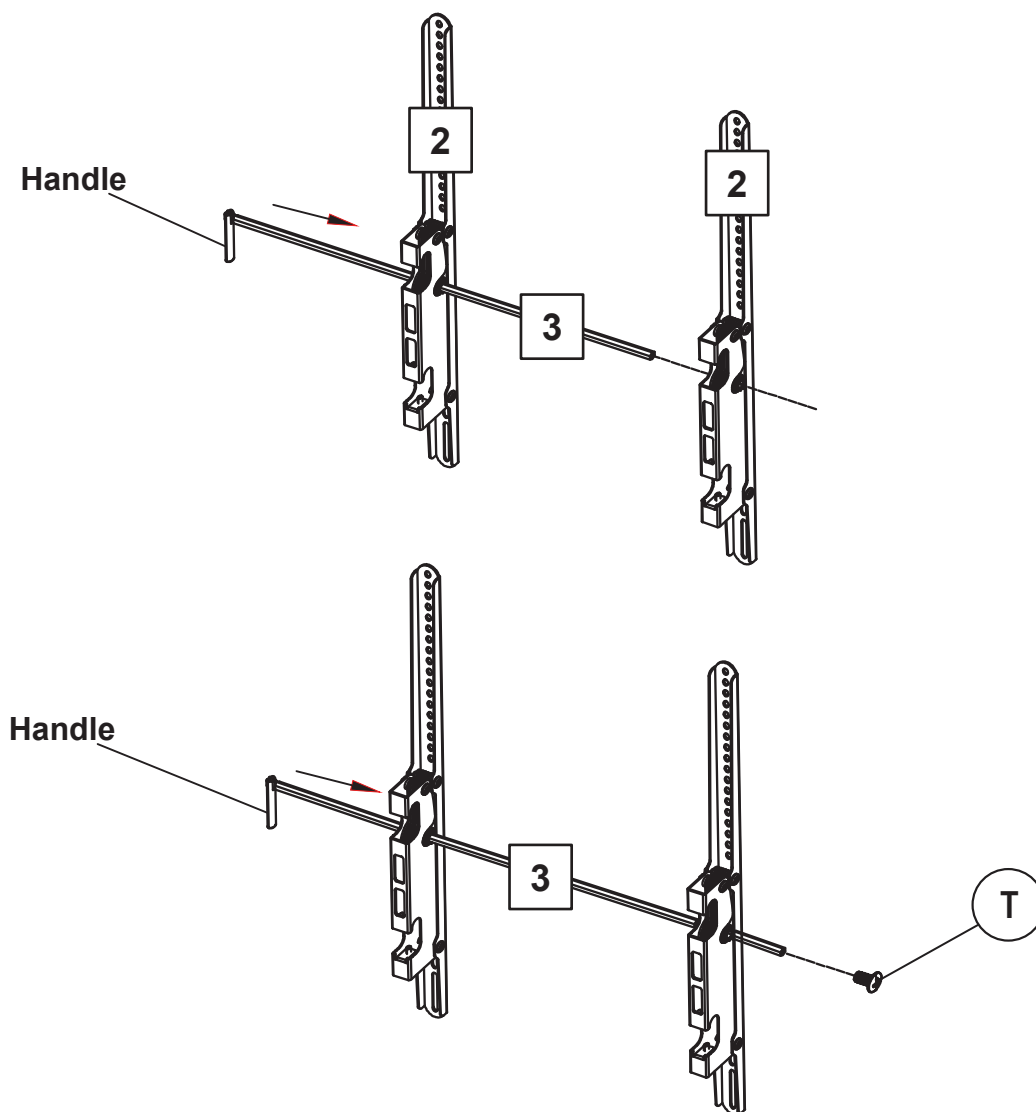


Fig. 1a

Step 1: Attach the left and right brackets to your TV



NOTE: IF YOUR TV SCREEN SIZE IS 60" TO 110" PLEASE FOLLOW THE DIRECTIONS FOUND ON PAGE 6 WHICH USES THE PROVIDED SPACERS.

Do not force the bolts into the mounting holes on your TV. Do not use an electric drill to tighten these bolts on your TV. This could damage the equipment or cause personal injury.

CAUTION: Do not place the TV face down on a hard surface when installing the mounting plate on the TV. Placing the TV face down on a hard surface can result in equipment damage. Use a blanket or other suitable surface.

Check your TV manual to confirm the required bolt diameter according to the size, depth, and position of the mounting holes in your TV.

For correct installation, install the **Brackets (2)** with the hook on each bracket facing down.

If your TV has a straight rear, and your screen size is 55" or less, spacers are most likely not necessary.

Center the **Brackets (2)** vertically on the rear of the TV. Attach the **Brackets (2)** to the rear of the TV using four of the **Bolts (D-M)** with the proper size **Washers (Q-R)** as shown in Fig. 1b. Tighten using the **Allen Wrench (4)**. Do not over tighten.

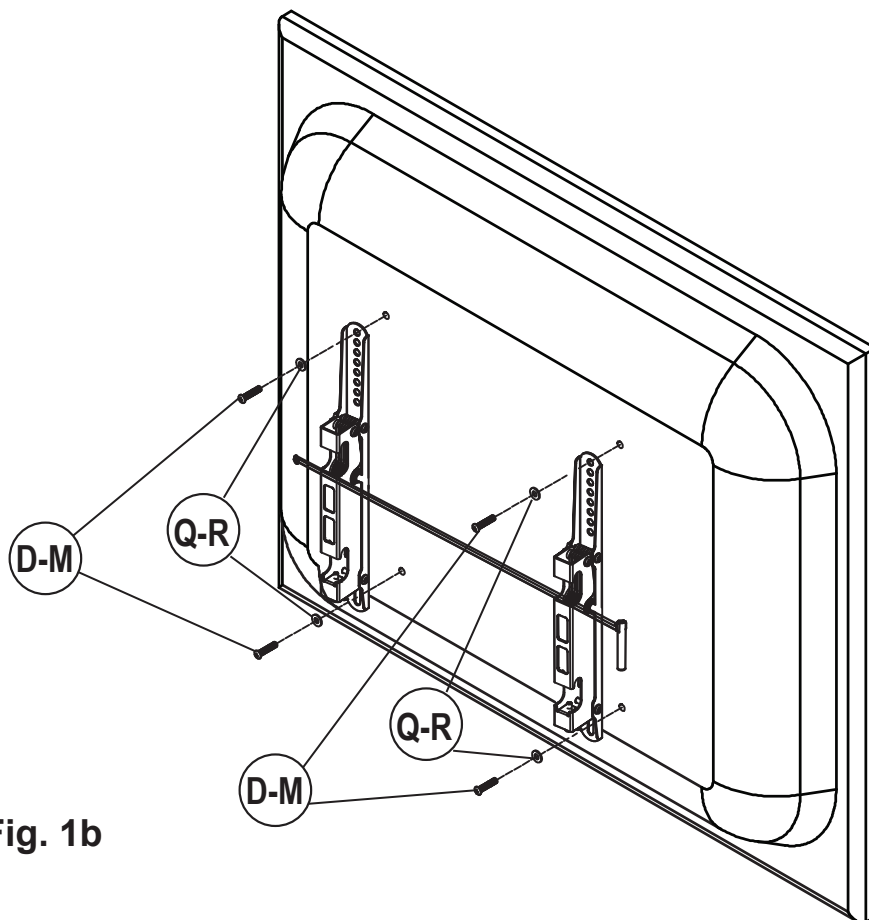
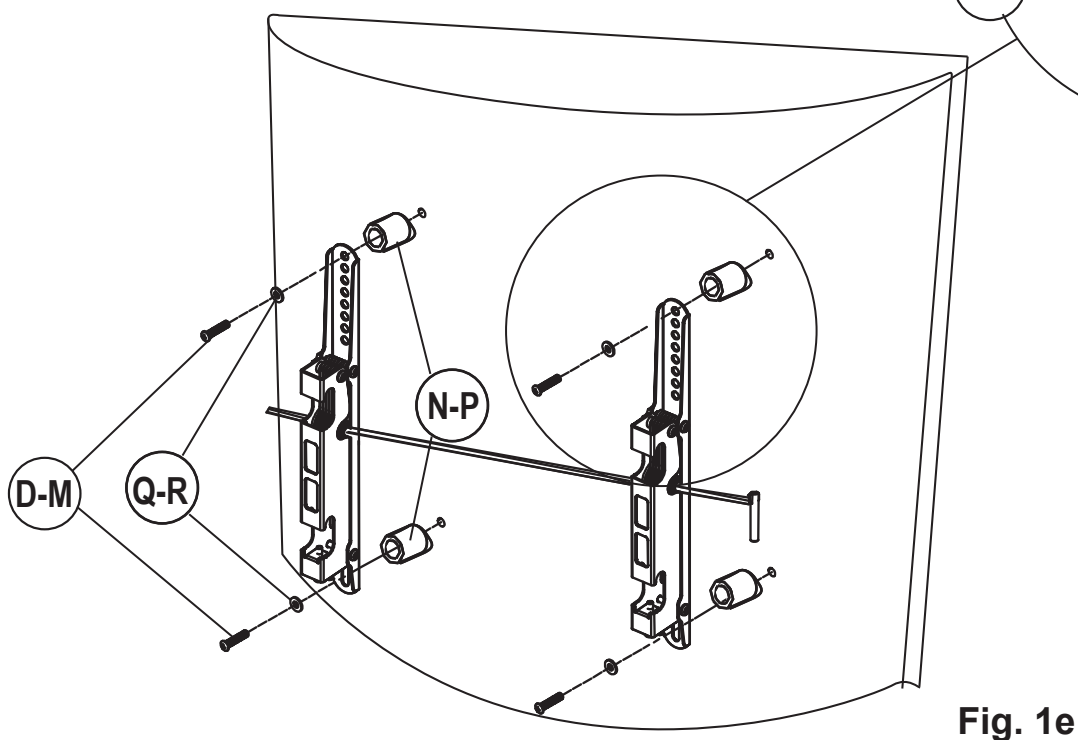
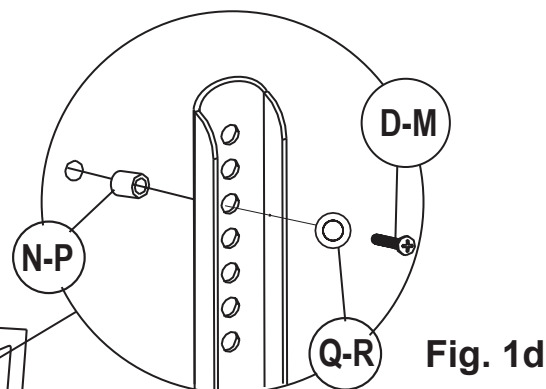
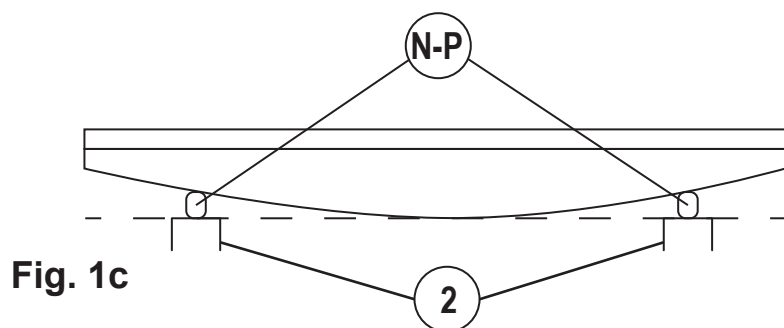


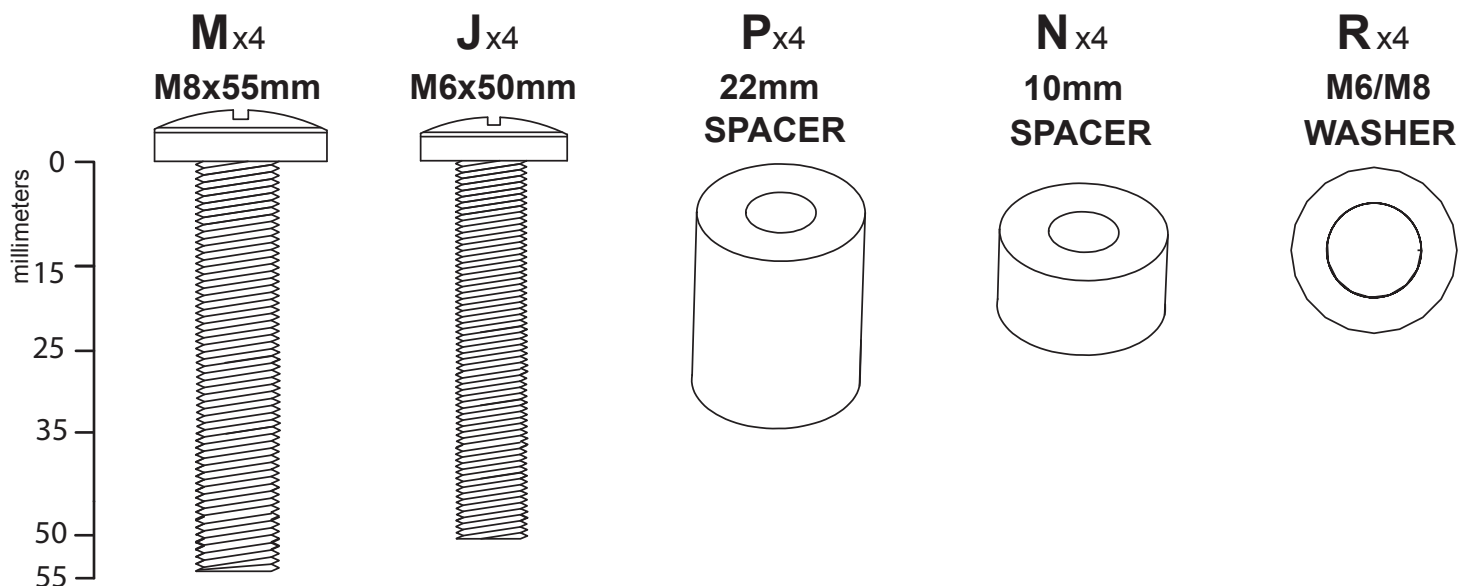
Fig. 1b

Attach the TV Bracket to the rear of the TV (continued)

If your television has a curved back, and the mounting holes are recessed (Fig 1c) spacers are required. Install the proper size **Spacers (N-P)** between the TV rear and the bracket structure as shown in Fig 1e. to make sure the **Brackets (2)** extend past the rounded portion of the TV. Then use the selected **Bolts (D-M)**, **Washers (Q-R)**, and the **Allen Wrench (4)** to attach the bracket structure (with the spacers between the bracket and the TV) to the TV as shown in Fig 1d. Make sure the bracket structure is properly aligned on the rear of the TV and securely tighten the bolts. Do not over tighten.



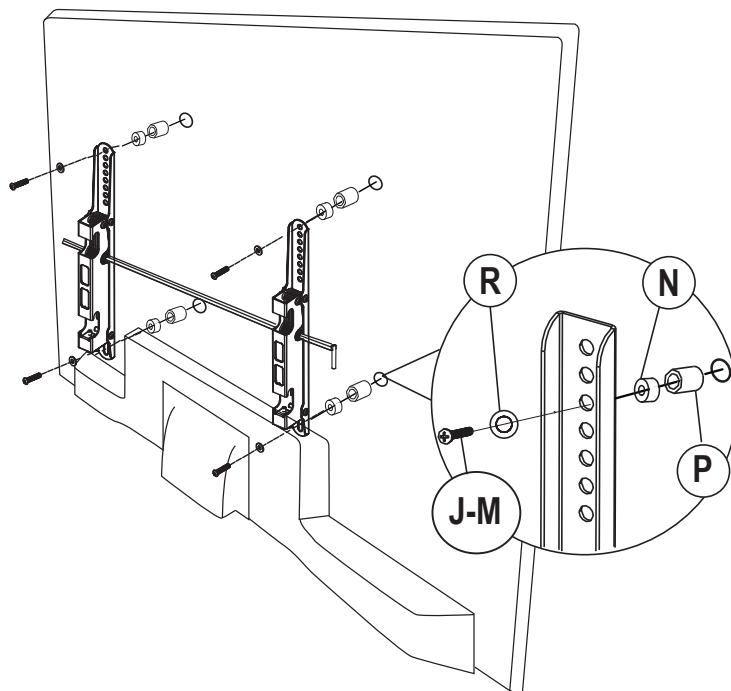
THESE INSTRUCTIONS ARE FOR ATTACHING THE TV BRACKETS TO 60-110" SCREEN SIZE LED FLAT PANEL TELEVISIONS



For **60-70" LED TVs**: Attach the brackets to the rear of the television using the **M6x50mm Bolts (J)**, **22mm Spacers (P)**, and the **M6/M8 Washers (R)**. Make sure to install the spacers between the rear of your TV and the bracket as shown below. Tighten the bolts using a phillips head screwdriver. Do not over tighten.

For **70-110" LED TVs**: Attach the brackets to the rear of the television using the **M8x55mm Bolts (M)** & **22mm Spacers (P)**, as well as the **10mm Spacers (N)**, & **M6/M8 Washers (R)**. Make sure to install the spacers between the rear of your TV and the bracket as shown below. Tighten the bolts using a phillips head screwdriver. Do not over tighten.

BE SURE TO FOLLOW THE SAFE MOUNTING PROCEDURES ON PAGES 11 & 12



Step 2: Find and mark the best position for the wall mount on the wall.

The best viewing height is parallel to the eye level of a person sitting on a couch. Normally, this is about 4 feet above floor level.

In addition to your eye level height when you are seated, the following two measurements will help you determine the perfect height for your wall-mounted television (Fig 2):

- The distance from your viewing location to the wall.
- The vertical distance from eye level to the floor plus the distance from your viewing location to the wall when the viewing angle is 15 degrees.

For example:

- If distance 'a' is 5 to 7 feet (1.5 to 2.1 meters), distance 'b' is about 1 foot (0.3 meter)
- If distance 'a' is 8 to 13 feet (2.4 to 4 meters), distance 'b' is about 3 feet (0.9 meter)
- If distance 'a' is 14 to 17 feet (4.3 to 5.2 meters), distance 'b' is about 4 feet (1.2 meters)

Add the eye level height plus 'b' to get the ideal height of the center of the television display.

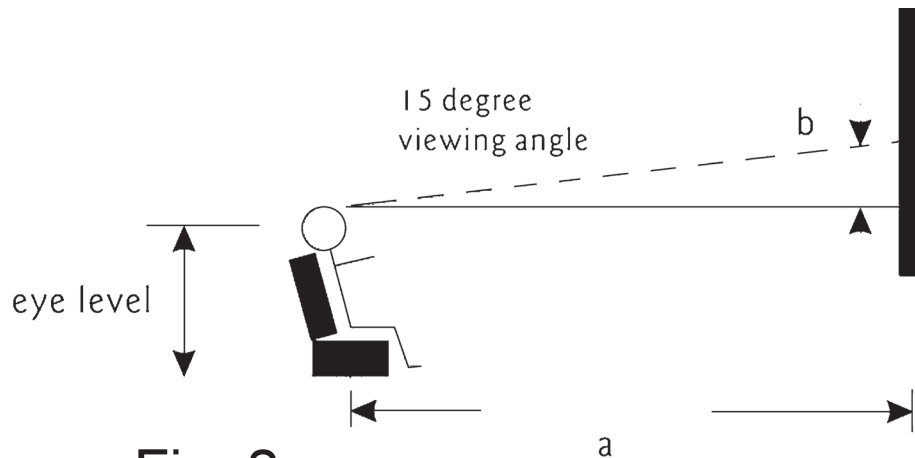


Fig. 2

Step 3: Attach the wall mount to the wall

After determining the ideal height on the wall for your television, follow the mounting instructions for your type of wall construction: wood stud or concrete walls.



Attaching this mount to wood studs or concrete walls requires special tools and hardware to ensure the mount is securely and safely attached to these materials. Concrete will break or crumble if special masonry drill bits and drill operating speeds are not properly used. Consult a professional if you are unsure or have any doubts about the safety of the installation. Personal injury or equipment damage can result if the mount is not properly installed.

Wood stud walls (Fig 3a)

1. Use a pencil, awl, or a nail to mark the location of the wall stud centers (Fig. 3a) after locating the stud with an electronic stud locator. The distance between the marks should not be less than 16 inches (Studs must not be less than 16" inches.)
2. Place the **Wall Plate (1)** flat against the wall with the center of the mount in the desired location, aligning the holes in the mount with the studs (Fig. 3b). Use the wall mount plate as a template to mark the location of the four mounting holes on the wall. Make sure that the mounting holes are level and are parallel using the built-in level on the front of the **Wall Plate (1)**.
3. Use 3/16" (5mm) drill bit to pre-drill holes at least 2.5" (65mm) deep at the marked locations (Fig. 3d).
4. Use a wrench, the four **Long Bolts (A)**, and **Washers (C)** to attach the wall mount to the wall as shown in Fig. 3c. Do not use wall anchors in wood stud walls.
5. Use the **Level** placed on the front of the **Wall Plate (1)** to level the wall mount, repositioning as necessary, then firmly tighten the bolts. Do not overtighten.

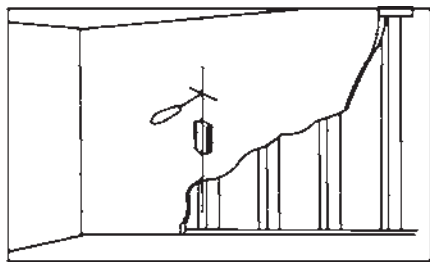


Fig. 3a

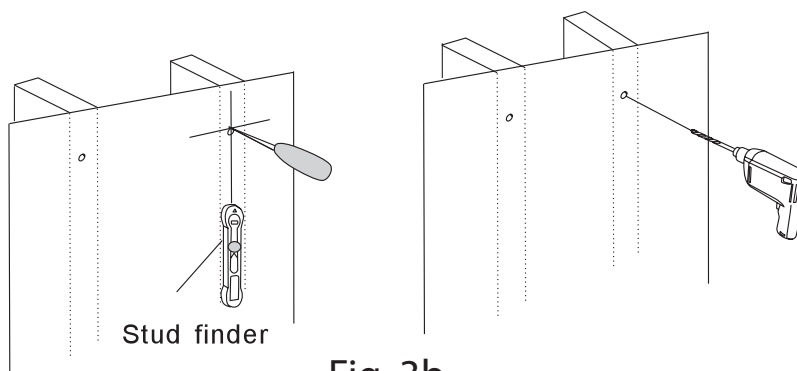


Fig. 3b

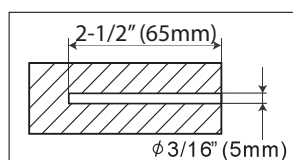


Fig. 3d

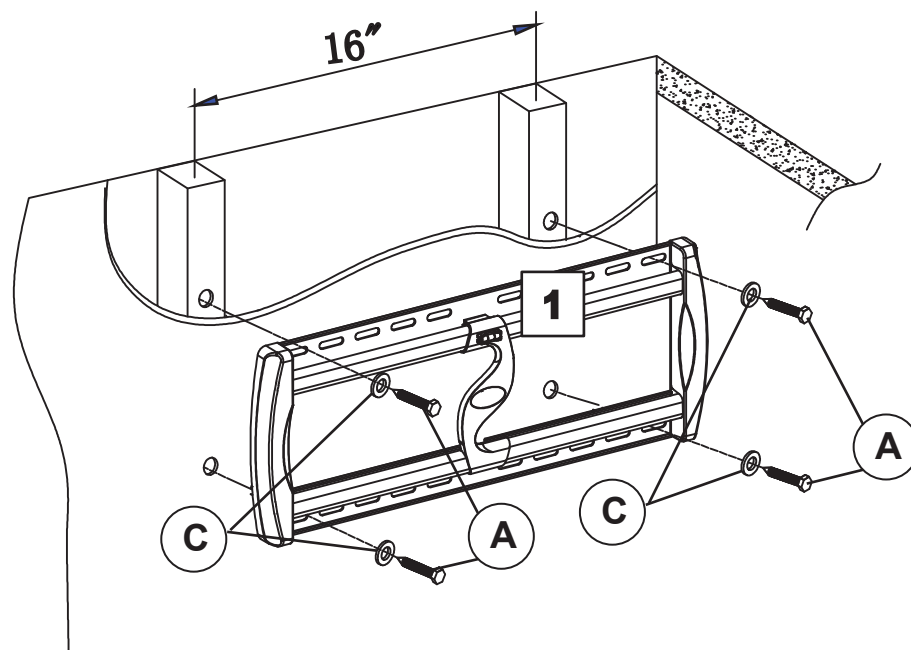


Fig. 3c

Concrete Walls:

1. Place the **Wall Plate (1)** flat against the wall in the desired location. Use the wall plate as a template to mark the location of the four mounting holes on the wall. Make sure that the mounting holes are level and parallel. Make sure the horizontal holes are no closer than 16" (Fig. 3e).
2. Use 3/8" (10mm) drill bit to pre-drill four holes at least 2.5" (65mm) deep (Fig 3f) at the marked locations.
3. Insert a **Wall Anchor (B)** into each pre-drilled hole and lightly tap it with a hammer until the wall anchor is flush with the wall.
4. Use a wrench, the four **Long Bolts (A)**, and **Washers (C)** to attach the wall mount to the wall with the **Wall Anchors (B)** (Fig 3g).
5. Use the Level placed on the front of the mounting plate to level the wall mount, repositioning as necessary, then securely tighten the bolts.

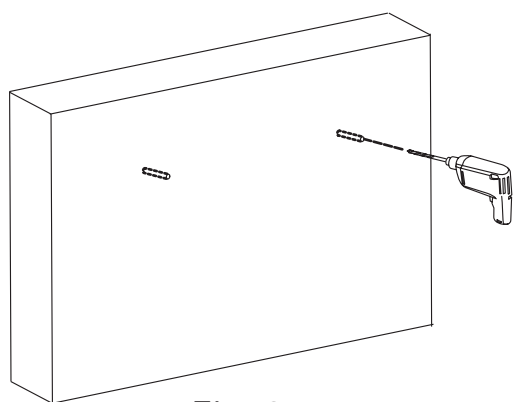


Fig. 3e

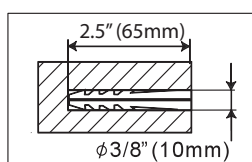


Fig. 3f

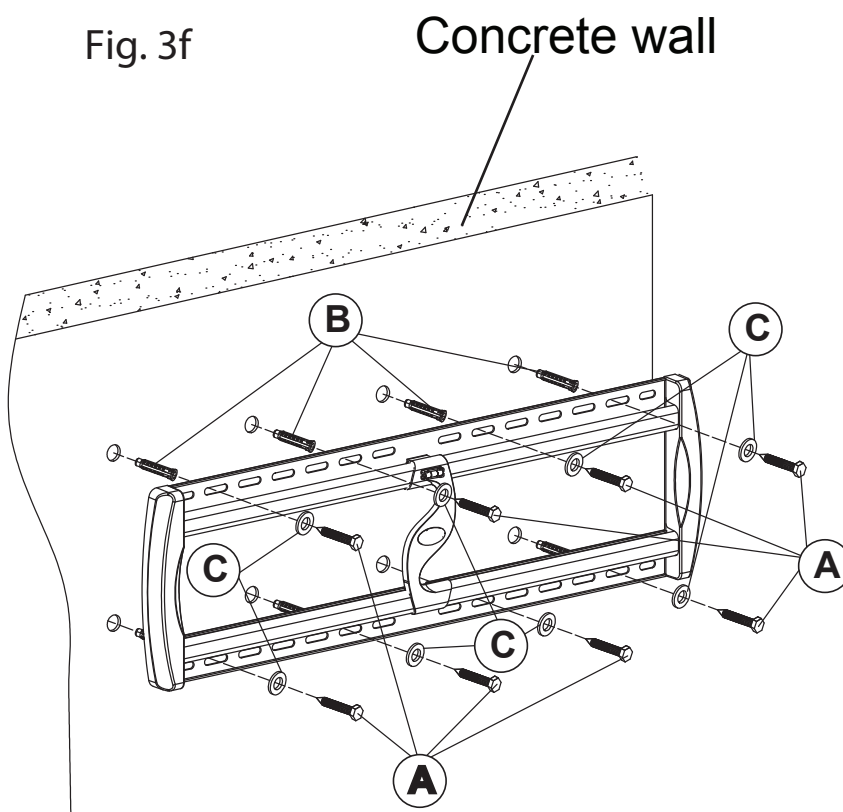


Fig. 3g

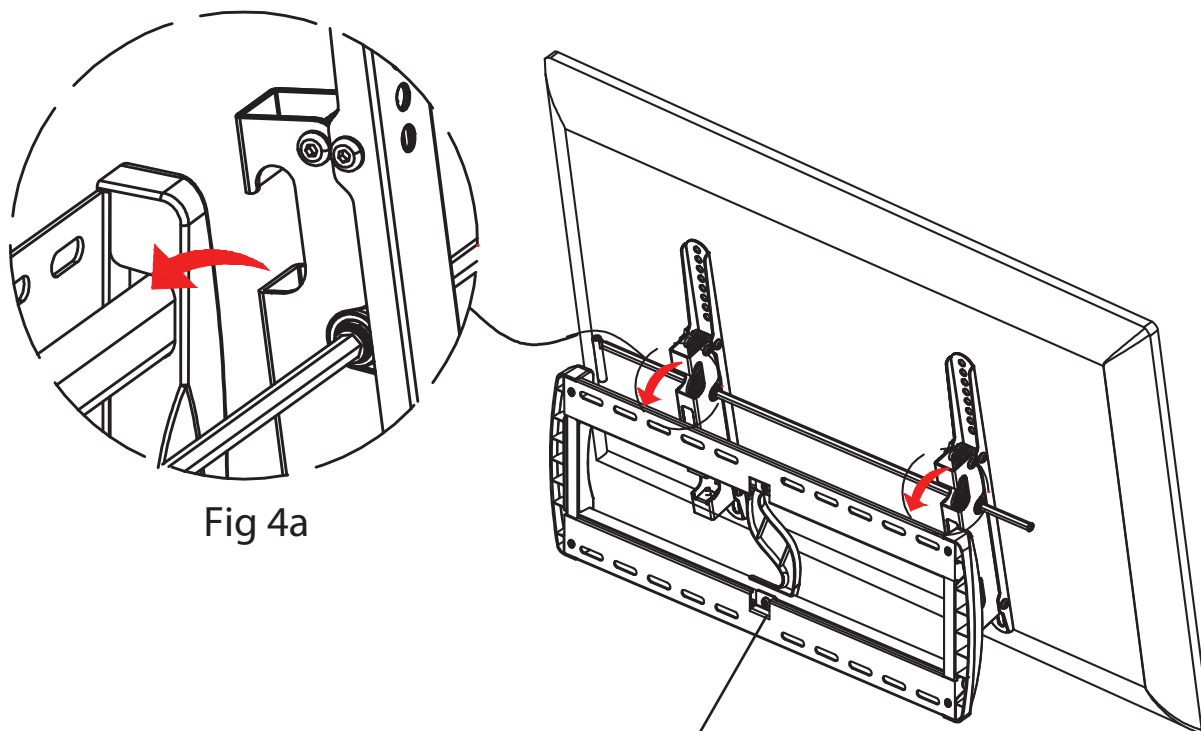
Step 4: Hang the television display



A large television requires two people to lift. Schoenfeld International Inc. and ATEC are not responsible for equipment damage or personal injury due to mishandling.

Do not release the TV until you are sure that it is securely mounted. Releasing the TV without first ensuring that it is securely installed can result in equipment damage or personal injury.

1. Lift the Television display with the brackets attached and carefully hang the top hook of the **Brackets (2)** over the top bar of the **Wall Plate (1)** as shown in (Fig. 4a). Carefully swing the display down so the lower part of the **Brackets (2)** fit over the lower bar of the **Wall Plate (1)**.



NOTE: The Wall Plate (1) is already attached to the wall in this step

Step 5: Securing the TV to the Wall Mount Plate

1. Secure the Television to the **Wall Plate (1)** with the security bolts on the bottom of each **Bracket (2)**. Using a long Phillips screwdriver, tighten the screw at the bottom of each of the two **Brackets (2)** (Fig 5a).
2. Test the TV is secure by pulling carefully outward from the bottom of the TV. If the security bolts are properly tightened, the TV will not pull away from the **Wall Plate (1)**.

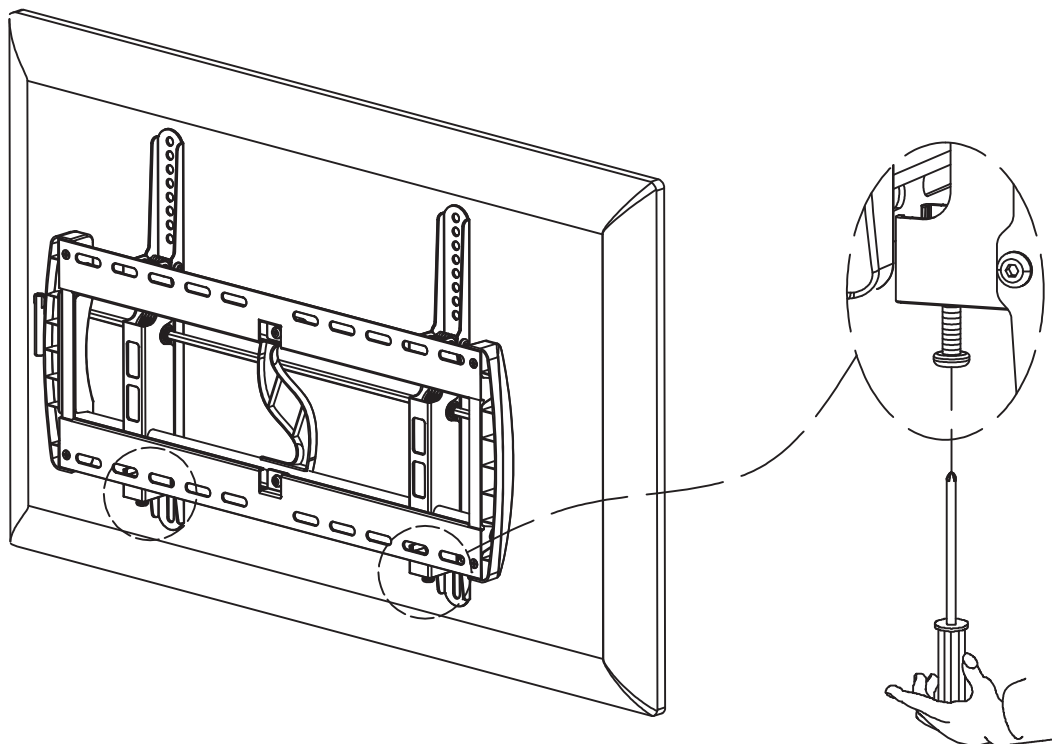


Fig 5a

Step 6: Adjusting the tilt angle

1. To adjust the angle of tilt, turn the handle on the **Tilt Adjustment Rod (3)**.

If the handle of the **Tilt Adjustment Rod (3)** is on the **Left side of the TV:**

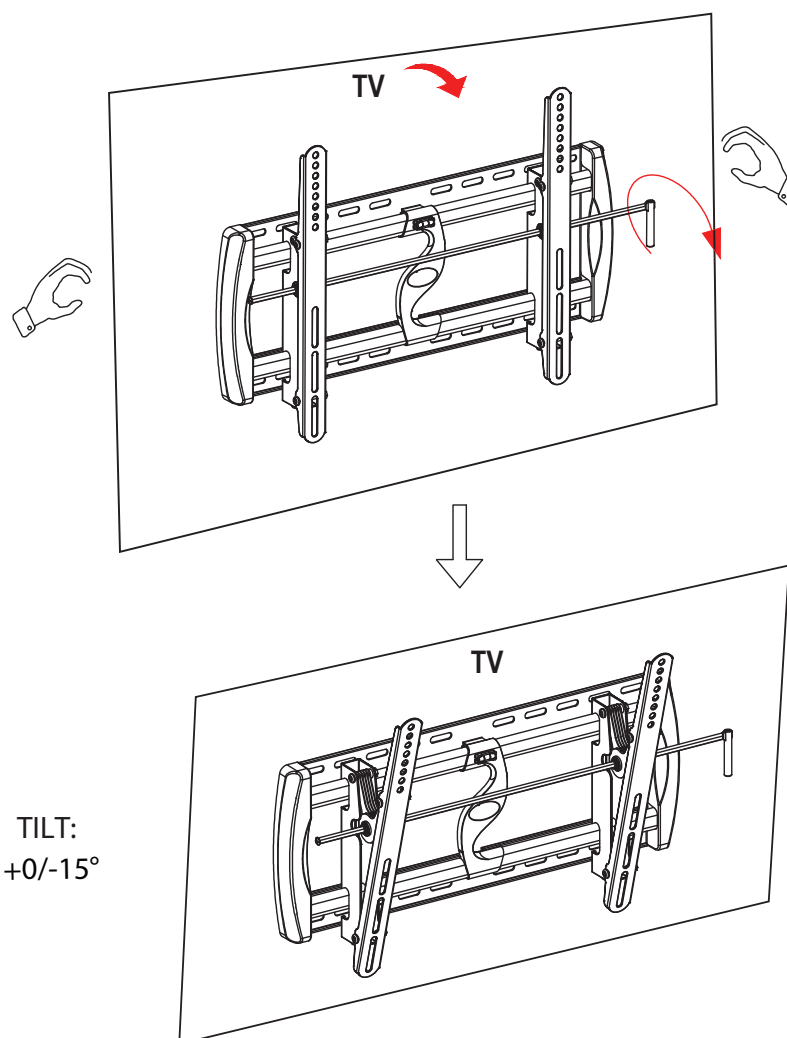
- Turn the handle clockwise to unlock the tilt adjustment.

If the handle of the **Tilt Adjustment Rod (3)** is on the **Right side of the TV:**

- Turn the handle counter-clockwise to unlock the tilt adjustment.

NOTE: Only turn the handle 1/4 turn at a time until the mount can be tilted.

2. Using two hands, adjust the tilt angle of the TV by gently pulling or pushing the top of the TV forward or backward until the desired angle is reached. It is recommended to have an additional person help hold the TV at the desired angle while the tilt angle is being adjusted.
3. To lock the tilt adjustment turn the handle on the **Tilt Adjustment Rod (3)**.
If the handle of the **Tilt Adjustment Rod (3)** is on the **Left side of the TV:**
 - Turn the handle counter-clockwise until the handle will not turn any further. Do not overtighten.
If the handle of the **Tilt Adjustment Rod (3)** is on the **Right side of the TV:**
 - Turn the handle clockwise until the handle will not turn any further. Do not overtighten.



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LIMITED SIX-YEAR WALL MOUNT WARRANTY

We warrant this product to you, the original purchaser at the time of purchase printed on a dated store receipt from an authorized ATEC retailer and for a period of six-years thereafter that our wall mount product and all its parts and components are free of defects in material and workmanship under normal use. This warranty is subject to the provisions below. ATEC's sole obligation and the purchaser's exclusive remedy pursuant to these warranties are limited to replacement at ATEC's sole discretion. There are no other warranties except as expressly set forth below either expressed or implied, including any warranty of merchantability for any particular purpose.

Should you be missing any of the assembly parts or components (screws, pieces, etc.), please contact the Customer Support Center to secure a replacement. It is not necessary to bring the unit back to the store. When calling, please reference the parts list found in the Instruction Manual to help us accurately identify the missing parts and promptly provide replacements.

Our Customer Support Center is available Monday to Saturday (10:00AM to 7:00PM EST) for technical assistance or troubleshooting. To contact us please call 1-800-936-1168.

This warranty is expressly limited to the replacement of wall mount parts and components described in the parts list located in the Instruction Manual included with the product.

This warranty applies under conditions of normal use.

This warranty does not cover: any product, which has been subject to damage due to improper assembly or disassembly, products which were not assembled, installed, used, or maintained in accordance with the product assembly instructions & warnings, acts of nature, misuse, neglect, accidents, abuse, exposure to elements, outdoor use, extreme temperature ranges, damage during transit, commercial use, modification of, or to any part of the product or attachments to the product not approved by ATEC. Also not covered are costs for assembly/dis-assembly labor, costs incurred in shipping the unit or parts for warranty repair/exchange or any products purchased from unauthorized ATEC sellers. Under no circumstances shall ATEC, be liable for any loss (direct, indirect, incidental, foreseen, unforeseen, special or consequential) or for any damage arising out of, or in connection with, the use of this product. Nor shall ATEC have any responsibility for incidental or consequential damages resulting from the breach of this warranty including but not limited to inconvenience, purchase or rental of replacement products, loss of profits or commercial loss.

We reserve the right to request damaged parts or units be shipped to our offices for inspection or confirmation of any warranty claims.

This warranty does not cover product sold 'As Is'.

This warranty is valid only to the original purchaser of the Product in the United States and Canada and grants specific legal rights.

Schoenfeld International Inc. and ATEC

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