

Hitachi Adjustable Wall Mount AWM-100-HIT Installation Instructions

Manufacturer is not responsible for failure to follow these instructions. Improper anchoring to wall or floor could result in injury or damage to the equipment. Professional installation is recommended.

Tools needed:

5/32" Allen Wrench	Level
3/8" Wrench	2 – 7/16" Wrenches
2 – 9/16" Wrenches	Carpenter Square (or equivalent)
7/32" Allen Wrench	5mm Allen Wrench

Hardware Kits Include:

	Qty. for AWM
Hardware Kit A	
3/8 -16 x 3" Carriage Bolt	16
3/8" Kep Nut	16
Hardware Kit B	
3/8 -16 x 2 ^{1/2} " Hex Bolt	4
3/8 -16 x 3 ^{1/2} " Hex Bolt	2
3/8" Kep Nut	2
Hardware Kit C	
1/4 -20 x 3 1/2" Flat Head Socket Head Cap Screw	2
1/4" Kep Nut	2
10-32 x 1" Machine Screw	2
10-32" Kep Nut	2
Plastic Shaft Block	1
Hardware Kit D	
1/4-20 x 3/4" Flat Head Socket Head Cap Screw	4
M6 x 12mm Socket Head Cap Screw	4
M6 x 25mm Socket Head Cap Screw	2
Washers	2

Included in Packaging:

- 1 Left / 1 Right Upright Tube Assemblies
- 2 Upper Cross Tubes
- 1 Lower Cross Tube
- 1 Boom Stem Tube Assembly
- 1 Boom Assembly with Projector Mounting Assembly
- 1 Jack Unit
- 1 Hand Wheel Assembly
- 2 Board Mounting Rails
- 1 Master Hardware Kit (Includes Kits A, B, C, D)

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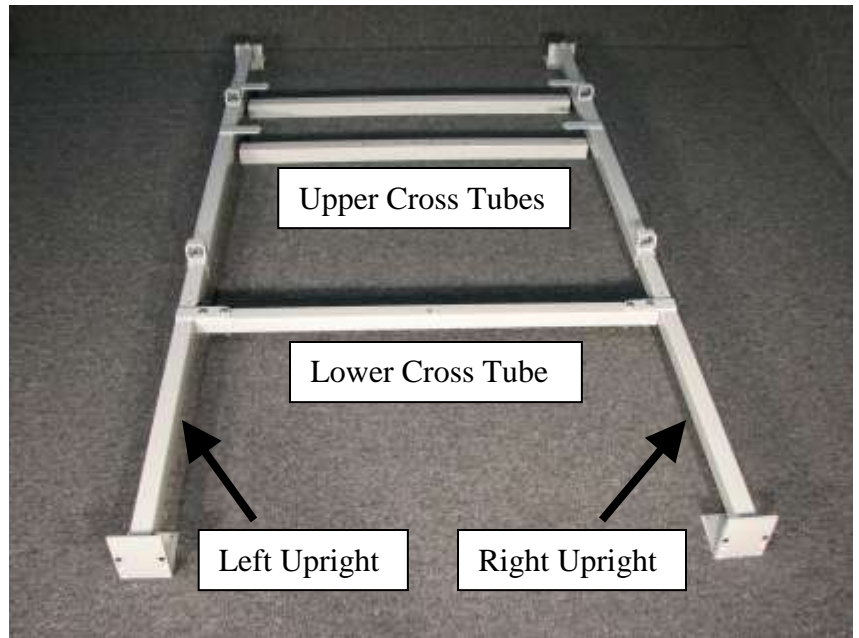
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Installation/Assembly Steps:

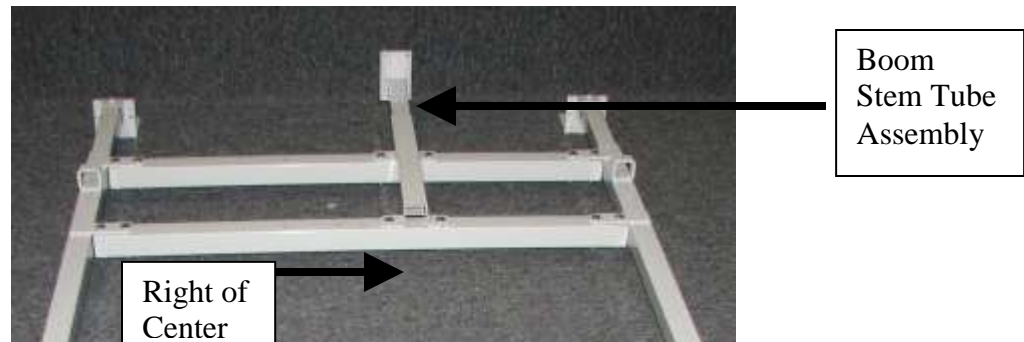
1. Find a clear space on the floor near where the Adjustable Wall Mount is to be installed. If assembling on a scratchable surface, we recommend putting something down to protect the floor surface.

Assemble Frame:

2. Unpack Hardware Kit A
3. Locate the Left and Right Upright Tube Assemblies. (Shown at right)
4. Place these on the floor about 4 feet apart.
5. Locate Lower Cross Tube. While placing Lower Cross Tube behind the lower tab in left and right uprights, insert (4) 3/8-16 x 3" Carriage bolts provided in Kit A through tabs and then through lower cross tube. Spin keep nut on each bolt until snug. (Shown at right) **DO NOT TIGHTEN NUTS AT THIS TIME.**



6. Locate Upper Cross Tubes. While placing each Cross Tube behind the tabs on left and right uprights, insert (8) 3/8-16 x 3" Carriage bolts provided in Kit A through tabs and then through Upper Cross Tubes. Spin keep nut on each bolt until snug. (Shown above) **DO NOT TIGHTEN NUTS AT THIS TIME.**
7. Locate Boom Stem Tube Assembly. Place Boom Stem Tube Assembly on top of both Upper Cross Tubes aligning the 4 mounting holes to the far most right position. Note: The Boom Mounting Plate must face the top of the unit. (Shown below) Insert (4) 3/8-16 x 3" Carriage bolts through the pads in the Boom Stem Tube Assembly and Cross Tubes. Spin keep nut on each bolt until snug. **DO NOT TIGHTEN NUTS AT THIS TIME.**



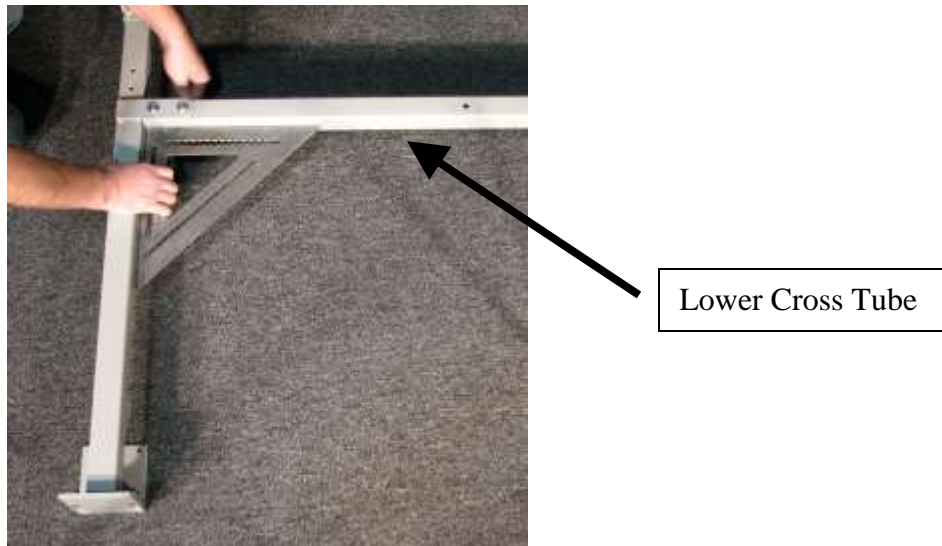
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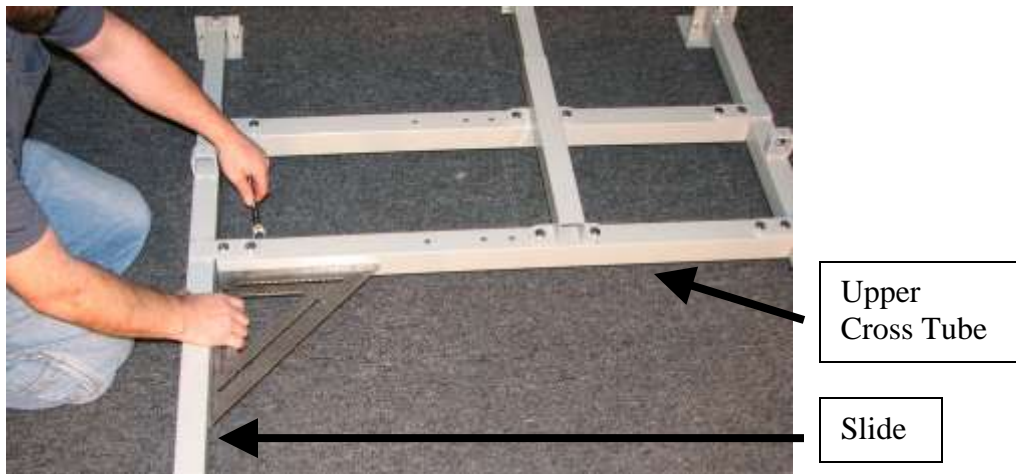
Squaring Frame:

Note: Improper squaring of unit will result in poor or limited functionality. This should be performed by using a Carpenter square. Follow the steps below carefully to obtain the best results.

1. Place square in lower left hand corner of Lower Cross Tube and Left Upright. Square inside corner carefully and tighten keps nuts at that location only. Shown below.
2. Repeat step 1 on right side of unit.



3. Once the uprights are square to the Lower Cross Tube, it is time to square the Upper Cross Tubes with the Slides.
4. Place the square along the Slide and the Upper Cross Tube. Move the Slide up or down to get a corner square. Tighten keps nuts at each corner making sure that the entire upper frame is square.



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5. Square the Boom Stem Tube Assembly to the Cross Tube and **tighten all hardware.**



6. **At this time the entire unit should be square and all hardware should be tightened.**

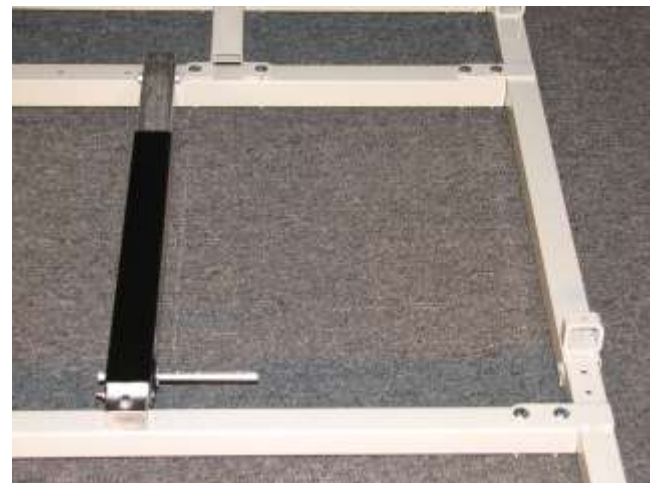
Installing Boom Assembly with Projector Mounting Assembly:

1. Unpack Hardware Kit B.
2. Locate Boom Assembly with Projector Mounting Assembly.
3. Locate the (4) 3/8-16 x 2-1/2" Hex Bolts supplied in Hardware Kit B.
4. Using the bolts, attach the Assembly with the Projector Mount facing to the bottom of the unit as shown at right.



Installing the Jack Unit:

1. Locate the Jack.
2. Locate the (2) 3/8-16 x 3-1/2" Hex Bolts and the (2) 3/8" keps supplied in Hardware Kit B.
3. Using the hardware, attach the Jack with the shaft facing to the bottom right or left of the unit. Note: This unit can be set up with the hand wheel to the right or left depending on the preferred application. The right is standard as shown at right. Only finger tighten the bolts at this time and proceed to the next step.



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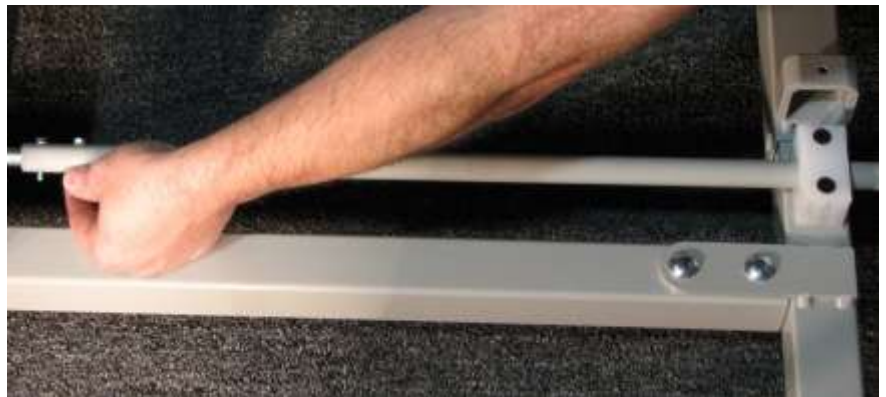
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Installing the Hand Wheel Assembly:

1. Unpack Hardware Kit C.
2. Locate the (2) 1/4-20 x 3-1/2" Flat Head Socket Head Cap Screws
3. Insert the Cap Screws through the Plastic Shaft Block on the counter sunk side of block. Shown below at left. Bolt through Upright on the side that the Hand Wheel is to be installed. Spin the (2) 1/4" kep nuts on the end of the Cap Screws until snug. Shown below at right.



4. Locate the Hand Wheel Assembly.
5. Insert Assembly through Plastic Shaft Block and over Jack Shaft. Align two holes in tube with two holes in Jack Shaft.
6. Insert (2) 10-32 x 1" Hex Bolts through the holes and fasten with (2) 10-32" kep nuts and tighten.
7. **Tighten the Jack mounting bolts and the Plastic Shaft Block bolts at this time.**



Standard Mounting Position

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Adjusting the Mounting Depth and Height:

In some cases, it may be necessary to increase the mounting depth of the unit to clear obstacles. Such as chalk boards, conduit, ect. The preset distance is 2" and can be adjusted up to 5" using the steps below.

1. The mounting distance from the wall can be altered by sliding the Wall Angle on the mounting pad as shown in Figure 1.
2. The unit can be mounted directly to the floor by removing the angle brackets at the bottom only as shown in Figure 2.
3. The Upper Wall Angle can be mounted up or down depending on the application. They are shipped in the upper direction.
4. The overall length of the unit can be adjusted as shown in Figure 3. This may be necessary to mount above an obstacle such as an existing chalk board.
5. Loosen the bolt on the collar and slide to the desired length. Tighten bolt.

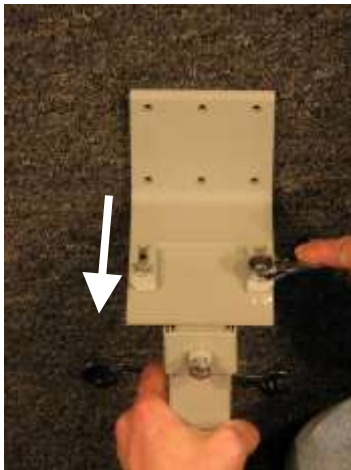


Figure 1



Floor mounting holes when angle is removed.

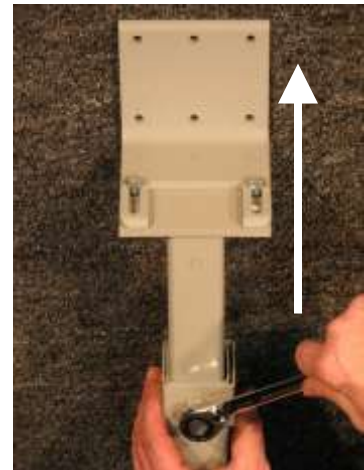


Figure 3

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Mounting Unit to the Wall:

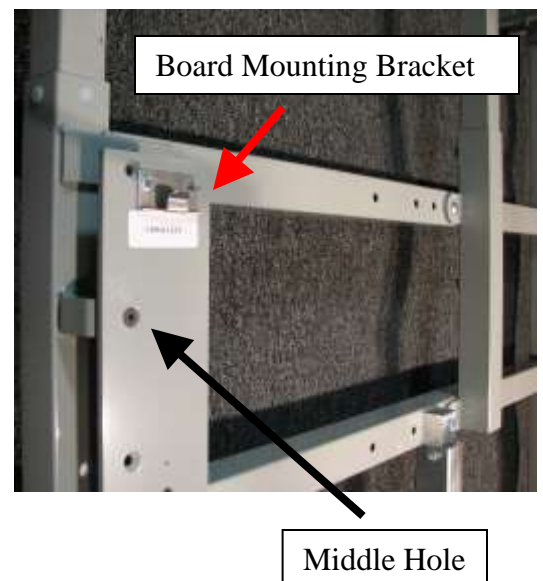
1. At this point the unit is ready to stand into its vertical position.
Requires more than one person.
2. Stand the unit against wall in area to be mounted.
3. Make sure uprights are plumb before anchoring to the wall. (Shown at right)
Use appropriate fasteners depending on wall construction.
4. M&B is not responsible for problems due to inadequate anchoring. Professional installation is recommended.
5. When possible, anchor into a wall stud.
6. Raise and lower the adjustable wall mount using the hand wheel. If binding occurs, the main uprights will need to be adjusted for plumb and square. Align face of rails. Loosen hardware and retighten as needed to accomplish this.



Please note: Hardware for installation into wall surfaces is not included, and must be purchased by the customer depending on the installation application. Customer is responsible for ensuring that unit is secured appropriately to surface. Quantity of 16 screws/bolts is required for each adjustable wall mount to be installed.

Attaching Board Mounting Rails:

1. Unpack Hardware Kit D.
2. Locate the (2) Board Mounting Rails.
3. Using the (4) 1/4-20 x 3/4" Flat Head Socket Head Cap Screws, attach the Board Mounting Rails to the Slides. Make sure that the Rails are mounted through the middle set of holes and offset to the center of the unit.
4. Locate the Hitachi Board Mounting Brackets provided with your Starboard.
5. Fasten the board mounting brackets through the board mounting rail using the bolts already installed in the rails. (Shown at right)
6. Hang the board on the top set of brackets in the back of the Starboard.

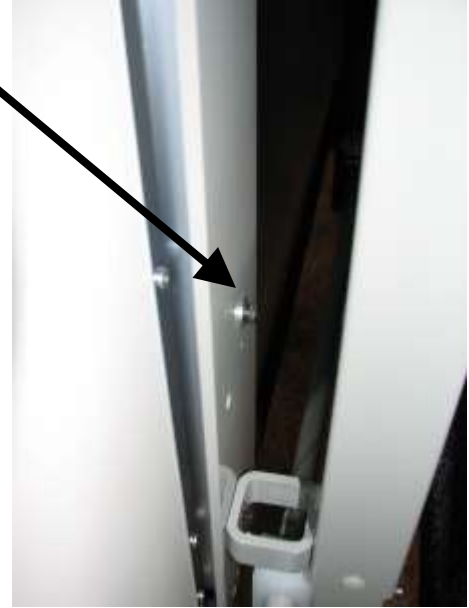


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7. Using the (2) Washers and (2) M6 x 25mm Socket Head Cap Screws, fasten the back of the board to the Mounting Rails.

Note: Do not over-tighten the board to the rails. Finger tighten only. If they are over-tightened, deflection of the board will occur.



Mounting the Projector:

1. The Hitachi Projector can be mounted to the Projector Mounting Plate using (4) M6 x 12mm Socket Head Cap Screws found in Kit D.
2. The projector distance, side angle and forward angle can be adjusted independently using the appropriate adjustments provided on the unit. It is important to understand the process on calibrating the projector to the board (Not covered in this manual). Refer to the projector manufacturers' manual. Professional calibration is recommended.



You are now ready to run your projector, audio and power cables. There is several different ways this can be accomplished depending on the installer's preference. Be sure to have adequate length of cable to accommodate the movement of the unit. Thank you for purchasing our product.