

ON-WALL SPEAKERS

Model **EW25**

Model **EW30**

Model **EW35**



JEMP
Tek

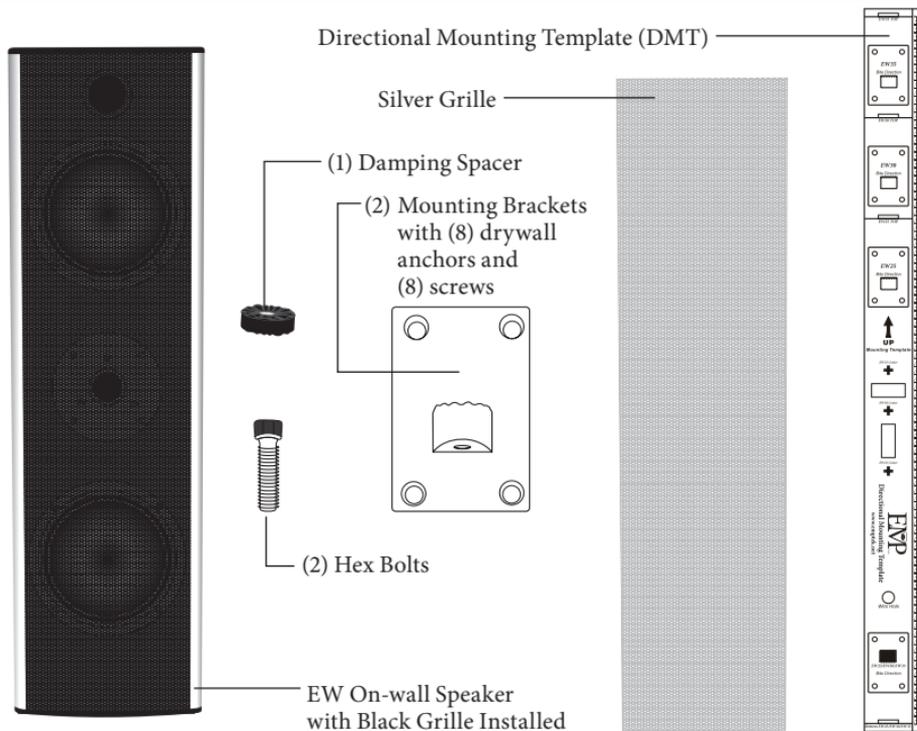
USER & INSTALLATION MANUAL

Introduction

Congratulations on your purchase of an EMP Tek EW25, 30 or 35 on-wall Speaker! Your speaker is the result of many years of research and development dedicated to producing powerful, high-quality home audio systems.

This manual contains setup recommendations and specifications for the EW25, EW30 and EW35 on-wall speakers. It is recommend you thoroughly read through the material contained in this manual before connecting your speakers. This will ensure you have an understanding of how to properly setup and operate your speakers for optimum performance.

EW On-wall Speaker Contents



Break In Period

Allow 18-24 hours of listening time to adequately allow the EW series speakers to break-in. During this first 18-24 hour listening period, the driver's suspensions will loosen, resulting in an increase in low frequency response, improved definition, and increased clarity and detail.

Care and Cleaning

To maintain the speaker's high quality appearance, it is recommended to regularly use a dry or slightly-damp soft cloth to keep the exterior free from dust or dirt. To clean dust from the grille, use a vacuum with a brush attachment.

Features

The EW series was designed to be mounted directly onto a wall, and coordinate with flat panel displays. These speakers may be used for stereo, or can be used in surround sound applications such as left and right front channels, dedicated center channel, and as surround channels. The composite woofer cone, fabricated from cellulose acetate pulp impregnated with mica substrate and damped with carbon fiber/resin polymer has a very high ratio of weight to rigidity, permitting the EW series on-wall to deliver thundering bass response in combination with breathtaking vocal clarity.

For high frequencies, a premium quality silk/polymer resin dome tweeter is used. This tweeter uses a special magnetic liquid cooling to protect the tweeter from damage and allow greater power handling.

The EW series specialized crossover design allows the speaker to be used horizontally or vertically. The crossover system enables flat frequency response with either placement.

The EW series' sealed cabinet, constructed from extruded aluminum, eliminates midrange resonances, and the narrow profile minimizes cabinet diffraction. The speakers virtually disappear, leaving only a deep, wide sound stage with pinpoint imaging.

System Setup

In order to extract the best possible sound from your speaker system, it is important to determine where the speakers will sound best in your listening room. Room reflections from the floor, ceiling and side walls will influence the balance, imaging and overall sonic quality of the listening experience. It is suggested you experiment with different speaker placement possibilities to determine which location offers the best overall sound. Since the EW series is designed to be installed next to flat-panel televisions or displays such as plasma and LCD monitors, this may dictate placing the speakers on each side of the television, and either above or below if used as a center channel.

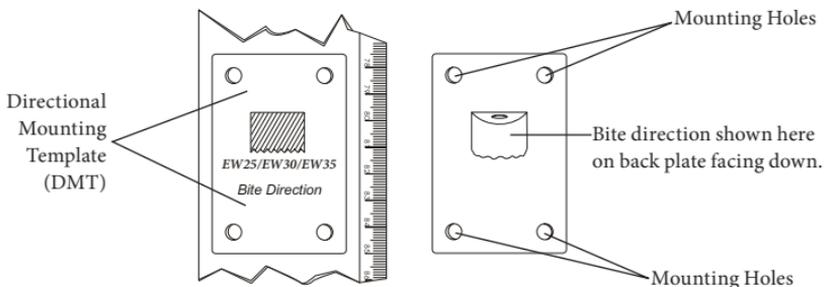
System Setup

The EW series speaker is designed to sound best when placed with its back against a wall, using the supplied mounting brackets. These brackets allow the speaker to pivot or be angled towards the listening position, which may provide a more spacious and realistic sound stage. Optimal imaging and performance is achieved when the measurement from the floor to the middle of the EW series on-wall speaker is between 39-45 inches; however, the location of the television or display may not allow this placement.

For optimal performance in surround sound applications, the main front left and right channel speakers should be mounted on either side of the television or display with the television generally centered between the speakers. The center channel speaker should be centered above or below the television. Surround channel speakers should be placed behind and, or to the sides of, the listening position. The listening position is typically centered in-between the surround speakers. Try experimenting with the surround channel speakers by angling them slightly towards or away from the listening position. This angle can have a dramatic effect on the surround channel's performance as well as the overall surround sound experience.

Installation – Mounting Brackets

Use the enclosed Directional Mounting Template or DMT (see illustration on page 1) to determine and mark your desired speaker location. The DMT features bubble-type levels to help you install the speaker as level (horizontal) or plumb (vertical) as possible. Place the DMT where the speaker will be installed and pay close attention to center the DMT for the EW series model you're installing. For example, if you're installing an EW30, make sure to use the EW30 centering cross hair marks on the DMT and not the EW25 or EW35 centering cross hairs. Use a pencil to mark the four mounting holes for the lower bracket, and then mark the four mounting holes for the

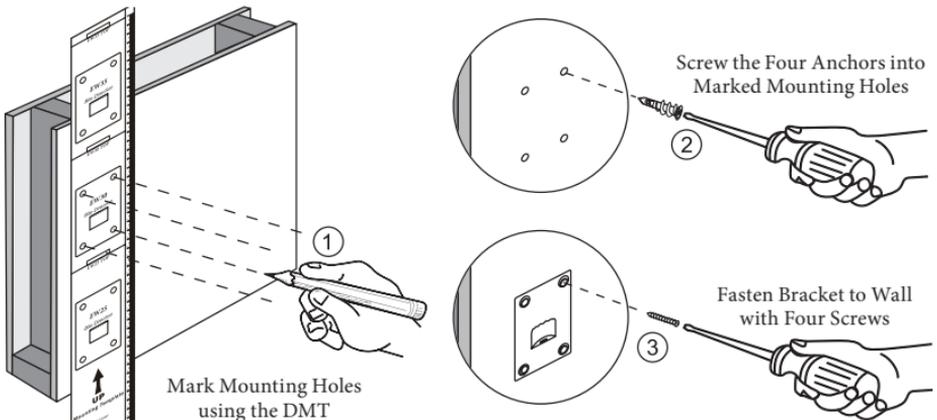


Installation – Mounting Brackets

upper bracket located at the other end of the DMT. Again, pay close attention to mark the correct mounting holes for the model you're installing.

NOTE: Ultimately, the wall location where you'll be installing your EW series speaker will have a stud or other framing member very close by. You may want to use a stud-finder (available at your local hardware store) to locate the nearest stud. It is highly recommended you place your EW series mounting brackets where at least two of the bracket's screws can be placed into a stud or other framing member. Then, follow the drywall mounting steps below for the other two remaining holes per mounting bracket. Mounting your EW series speaker this way provides for a very secure installation.

If the wall location doesn't have a stud or other framing member nearby, and you need to install your mounting brackets onto drywall only, use a screwdriver or drill-driver to screw a zinc drywall anchor (see the illustration below) into each of the eight mounting bracket hole locations you've marked. The drywall anchors have a self-drilling end which does not require you to pre-drill the hole.

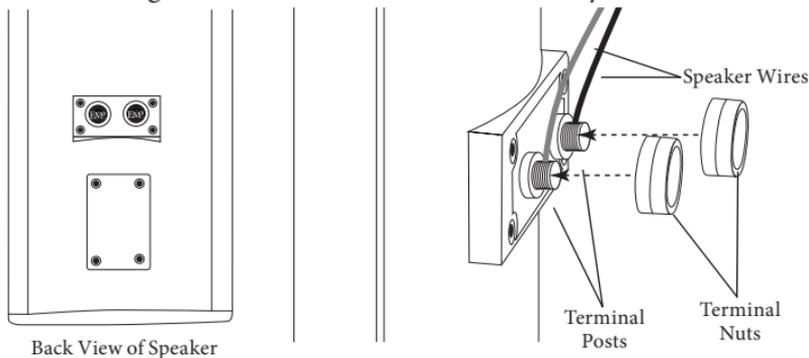


Once all drywall anchors are in place, place the mounting bracket in position, paying careful attention to the bite direction of the bracket (see illustration on page 5). The bite direction of both brackets faces outward from the center of the speaker. Use a screwdriver or drill-driver and four screws per mount to fasten each bracket to the wall securely.

If mounting to surfaces other than drywall, we recommend you consult with a hardware or construction professional to obtain the best hardware for your application.

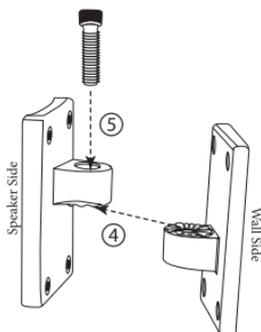
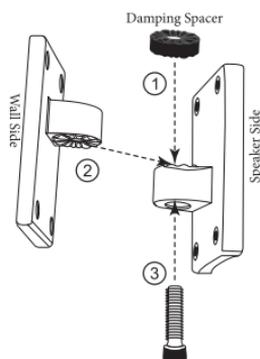
Attaching Speaker Wires

Remove the round terminal nuts from the terminal posts on the back of the speaker. Remove 1/4" to 3/8" of the insulation from the end of each speaker wire. Insert the ends of the speaker wires into each terminal making sure to observe proper polarity (typically, the positive wire is red, and the negative wire is black). Verify the wires are in the correct terminal holes and replace the terminal nuts. Tighten each nut so the wire is securely attached.



Mounting Speakers

To mount the speaker to the mounting plates on the wall: 1.) Place the damping spacer on top of the speaker's lower mounting bracket as shown in the illustration to the right; 2.) Line up the speaker's lower bracket to the lower wall mount bracket; 3.) Insert one hex bolt into the bottom hole on the speaker's mounting bracket and into the lower wall bracket; 4.) Line up the speaker's upper bracket with the upper mounting bracket as shown in the illustration below; 5.) Insert the other hex bolt



into the top hole on the speaker's upper mounting bracket and into the upper wall bracket. The speaker should now be able to pivot on both brackets. 6.) Use the included hex wrench to tighten both hex bolts until the speaker cannot pivot and is securely attached to both brackets. Adjusting the pivot angle of the speaker is as easy as loosening the two hex bolts, adjusting the angle of the speaker, then tightening the bolts to lock the speaker at the desired pivot angle.

Changing The Grille

Your EW series on-wall speaker comes with a black grille, but an optional silver grille is included. Select the grille which best matches your décor. If you wish to change the grille, follow these steps:

To remove the grille:

- 1.) Use the smaller hex key tool to remove the four hex bolts from both end caps of the speaker;
- 2.) Remove both end caps;
- 3.) Firmly grasp both ends of one side of the grille to gently flex and lift the grille out of the recessed track.;
- 4.) Gently pull the other side of the grille from its recessed track.

To re-insert grille:

- 1.) Insert one side of the grille into the recessed track on one side;
- 2.) Firmly grasp both ends of the opposite side of the grille and gently flex and insert the grille into the opposite recessed track;
- 3.) Make sure the grille is centered in the speaker, and place one end cap onto the speaker;
- 4.) Place 4 hex head screws through the end cap and into the speaker and tighten using the smaller hex wrench;
- 5.) Repeat step 4 for the opposite end cap.



Specifications

Model	EW25	EW30	EW35
Frequency Response:	48Hz – 20kHz ±3dB	45Hz – 20kHz ±3dB	42Hz – 20kHz ±3dB
Sensitivity:	86dB (2.83V@1m)	86dB (2.83V@1m)	86dB (2.83V@1m)
Power Handling:	50-200 Watts	50-200 Watts	50-200 Watts
Woofers:	(2) 5½” Pulp Mica Carbon Fiber Composite	(2) 5½” Pulp Mica Carbon Fiber Composite	(2) 5½” Pulp Mica Carbon Fiber Composite
Tweeter:	1” Silk/Poly Dome	1” Silk/Poly Dome	1” Silk/Poly Dome
Impedance:	6 Ohms	6 Ohms	6 Ohms
Crossover Frequencies:	220Hz / 2.2kHz	220Hz / 2.2kHz	220Hz / 2.2kHz
Dimensions:	Height: 25” Width: 7⅛” Depth: 5⅝”	Height: 30” Width: 7⅛” Depth: 5⅝”	Height: 35” Width: 7⅛” Depth: 5⅝”
Grille:	Black or Silver (Both Included)	Black or Silver (Both Included)	Black or Silver (Both Included)
Finish:	Silver and Black End Caps with Black Accents	Silver and Black End Caps with Black Accents	Silver and Black End Caps with Black Ac- cents
Weight:	16½ lbs.	19½ lbs.	23 lbs.

Warranty

Your EW series on-wall speakers are covered by a limited warranty against defects in materials and workmanship for a period of 5 years from the original date of purchase. This warranty is provided by the authorized EMP Tek dealer where the speaker was purchased. Warranty repair will be performed only when your purchase receipt is presented as proof of ownership and date of purchase. Defective parts will be repaired or replaced without charge by your dealer's store or the location designated by your dealer authorized to service EMP Tek products. Charges for unauthorized service and transportation cost are not reimbursable under this warranty. This warranty becomes void if the product has been damaged by alteration, misuse or neglect. The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from the failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.



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