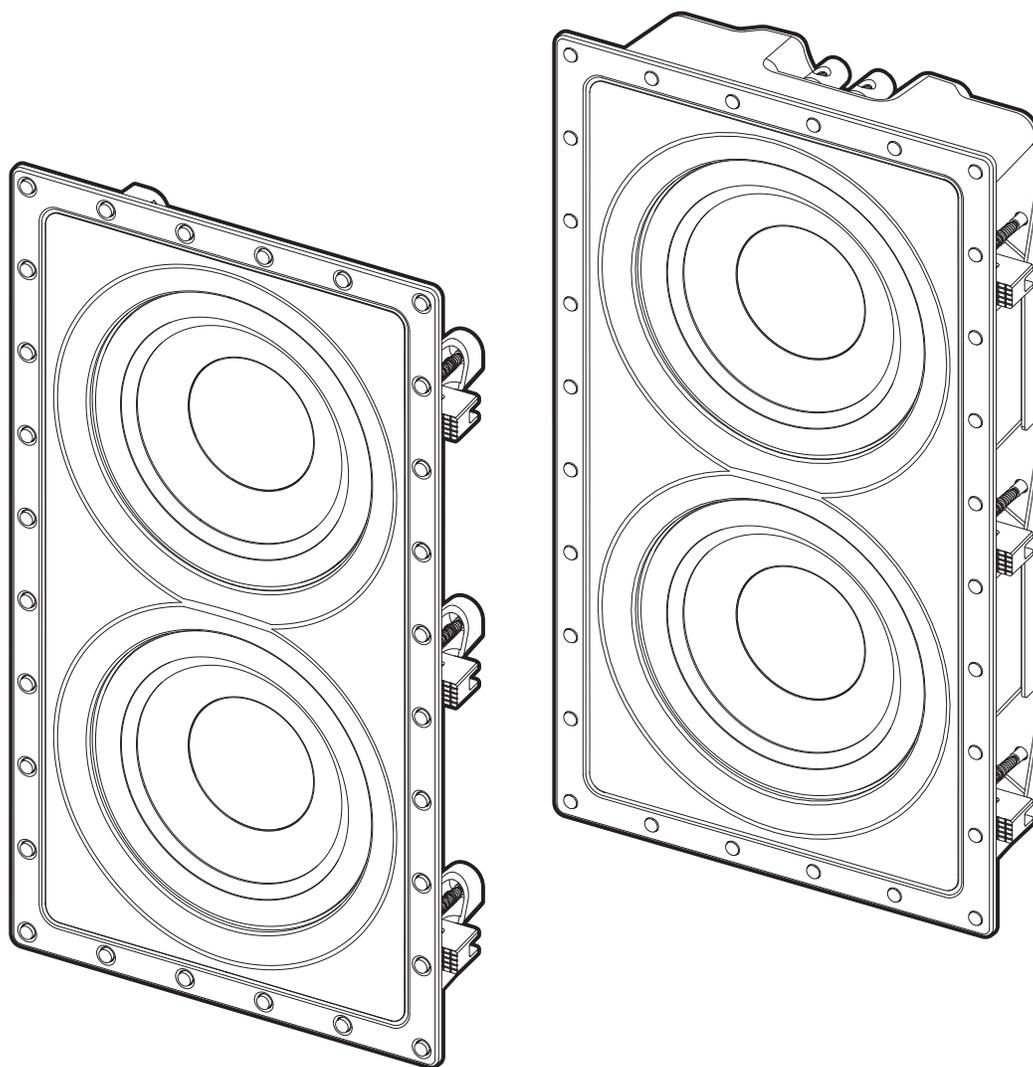


# DYNAMO™ IW-0 DYNAMO™ IW-S

Models: DYNAMO IW-0 & DYNAMO IW-S

user's manual





**RECYCLING AND REUSE GUIDELINES FOR EUROPE**

In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, according to the WEEE directive, require special reuse and recycling processing. For this reason MartinLogan Inc. (manufacturers of MartinLogan speakers and Anthem® Electronics) has arranged with its distributors in European Union member

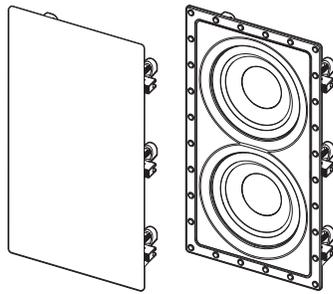
nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product or go to our website at [www.martinlogan.com](http://www.martinlogan.com).

Please note that only the product falls under the WEEE directive. When disposing of packaging and other shipping material we encourage you to recycle through the normal channels.

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## EU COMPLIANCE INFORMATION

Hereby, MartinLogan Ltd., Inc.'s declares that this DYNAMO IW-0 is in compliance with the essential requirements and other relevant provisions of the following EU Compliance Directive Information.

- Conforms to European Union Low Voltage Directive 2014/35/EU;
- European Union EMC Directive 2014/30/EU;
- European Union Eco-Design Directive 2009/125/EC;
- European Union WEEE Directive 2012/19/EU;
- European Union Restriction of Hazardous Substances Recast (RoHS2) Directive 2011/65/EU;
- European Union Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Directive 2006/121/EC;
- You may obtain a free copy of the Declaration of Conformity by contacting your dealer, distributor, or MartinLogan Ltd., Inc.'s worldwide headquarters. Contact information can be found here: <http://www.martinlogan.com>





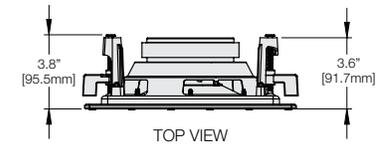
In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which upon disposal, according to the WEEE directive, require special reuse and recycling processing.

For this reason MartinLogan has arranged with our distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product, email [info@martinlogan.com](mailto:info@martinlogan.com) or visit the distributor locator at [www.martinlogan.com](http://www.martinlogan.com).

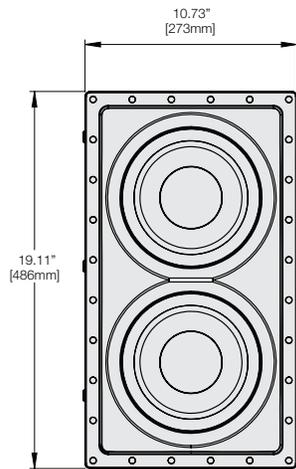
Please note, only this product itself falls under the WEEE directive. When disposing of packaging and other related shipping materials we encourage you to recycle these items through the normal channels.



## DYNAMO IW-0



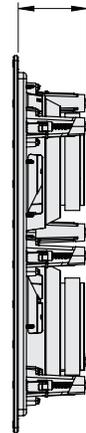
TOP VIEW



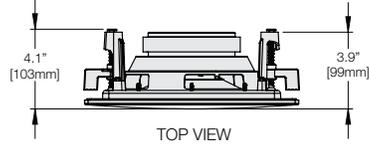
FRONT VIEW

MINIMUM  
MOUNTING  
DEPTH

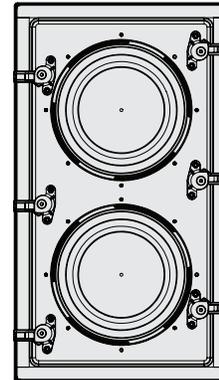
3.5" [90mm]



SIDE VIEW

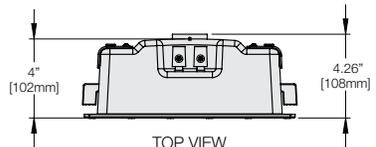


TOP VIEW  
(with grille)

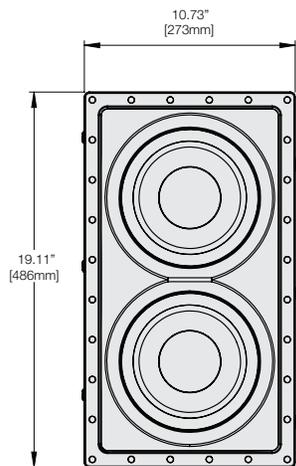


BACK VIEW

## DYNAMO IW-S



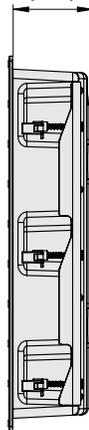
TOP VIEW



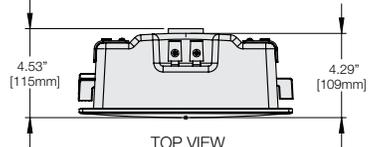
FRONT VIEW

MINIMUM  
MOUNTING  
DEPTH

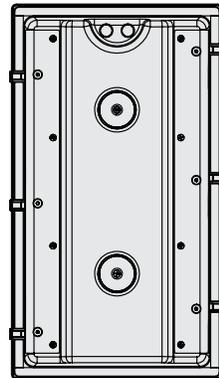
3.9" [98mm]



SIDE VIEW



TOP VIEW  
(with grille)



BACK VIEW



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## **Subwoofer Assembly Parts List**

- 1 subwoofer
- 1 subwoofer grille
- 1 mounting template.

## **Your New Subwoofer**

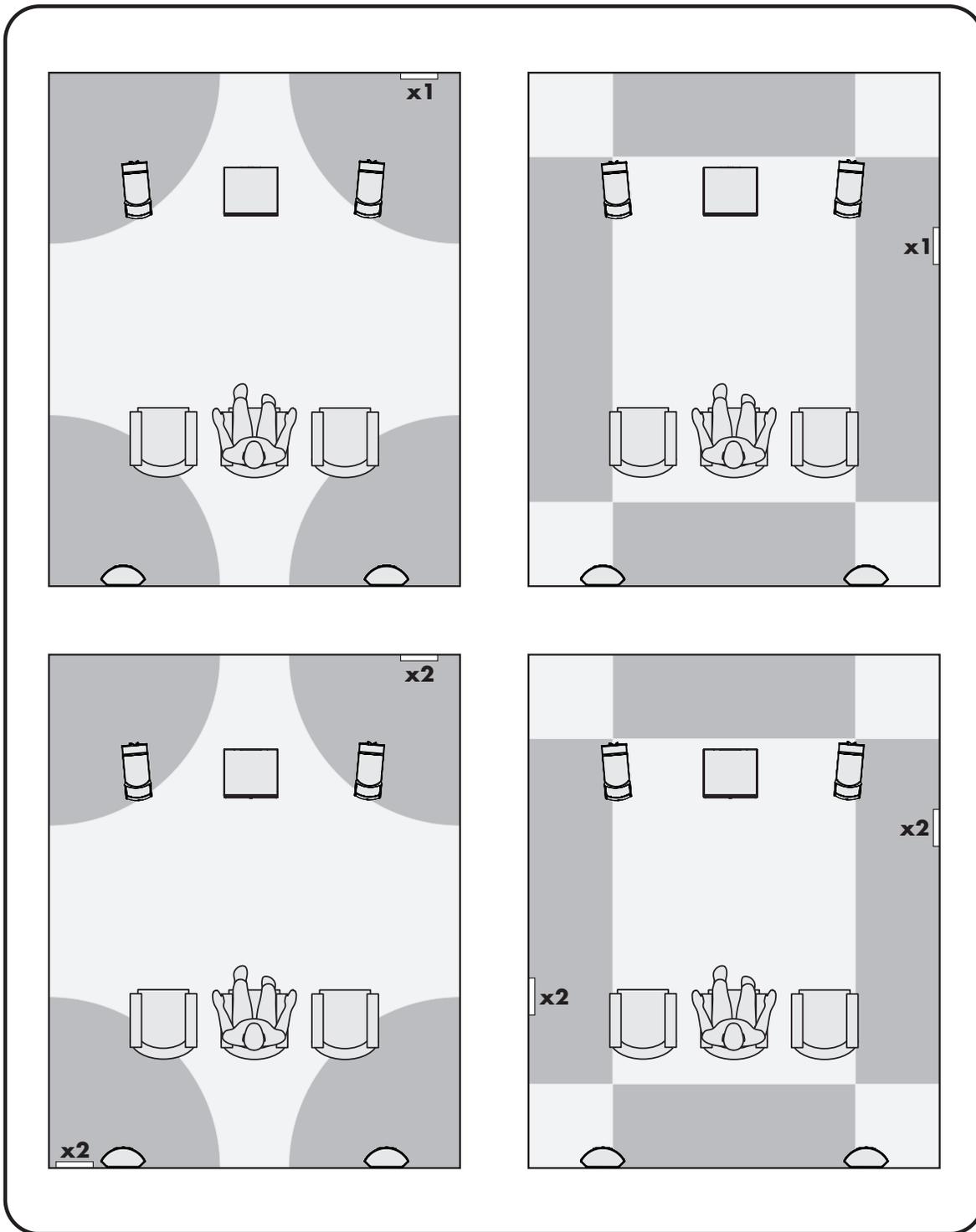
### **Break-In**

Allow your MartinLogan subwoofer system to operate for several hours before you listen critically.

### **Cleaning**

Clean subwoofer housing with a soft, damp cloth. Do not use a strong or abrasive cleaner or get any part of the subwoofer wet.

If you wish to paint your subwoofer grille, you must do so before installing it. See the section on "Color Match Painting" for full details.



**Figure 6.** Typical Subwoofer placement options indicated by the shaded areas. Your unique room design may require another alternative.

## The Listening Room

MartinLogan in-wall subwoofers are suitable for use in a wide variety of listening environments. Note however, that room construction, dimensions and furnishings all play a part in the quality of sound you ultimately achieve. Try to follow these guidelines:

- a. Strong, rigid walls are preferred for best bass balance. For even better results we recommend adding additional bracing and acoustic damping material to the cavity prior to installation. See section on "Subwoofer Installation" later in this manual for more details.
- b. It is important to note that just as the amount of soft furnishings has a decided impact on mid and high frequencies, those frequencies below 150 Hz are dramatically affected by the room itself—its size, shape, as well as the physical boundaries of the room.

## Guidelines For Deciding On Subwoofer Placement

When considering subwoofer placement directly into a wall, keep the following in mind:

- **DO NOT** install subwoofers in a ceiling.
- **DO NOT** install subwoofers into lath or plaster — over time, the bass vibrations will cause material to crack.
- **DO NOT** install subwoofers into cavities that contain ductwork.
- **DO NOT** locate subwoofers close to wall mounted fixtures that may vibrate (remember to check the other side of the wall too!).
- If installing in a wall with metal studs, make sure studs are securely fastened so that they do not vibrate or rattle.
- Some acoustic bleed-through into the adjacent room is unavoidable. See section on "In-Wall Cavity Preparation" for suggestions to reduce bleed-through.

## Subwoofer Placement

Subwoofers are recommended to be used in pairs. Using a pair of subwoofers will allow you to randomize the standing waves within your listening room so that bass is distributed in a more uniform manner. Two subwoofers also ensures even lower distortion, especially at high output levels.

Bass is less and less directional as it goes down in frequency. For best sonic integration, placing one subwoofer in the wall at the front of the room and the other in the wall or at the rear usu-

ally provides the best performance and sonic integration. If this location is not possible, keeping in mind the guidelines provided earlier, you may place your subwoofers anywhere in the wall without affecting the stereo image of your front speakers or the soundstage of your multichannel speaker system.

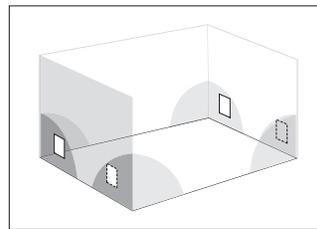
**Figs. 1a** and **1b** highlight how bass output is generally affected by in-wall and placement. When seated in the typical listening area of your room, placing the subwoofers in the various positions will typically result in bass performance as follows:

**Fig. 1a:** Corner placement close to the floor provides the best balance of output and accuracy.

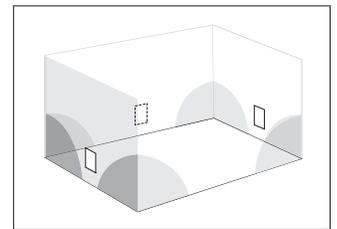
**Fig. 1b:** Placement anywhere along the walls close to the floor, but outside the "shaded" area will provide slightly reduced output, though still acceptable accuracy.

If desired, for further optimized bass performance and even greater output, you can install an additional pair of MartinLogan in-wall subwoofers. Fig. 1c provides recommended placement for four subwoofers.

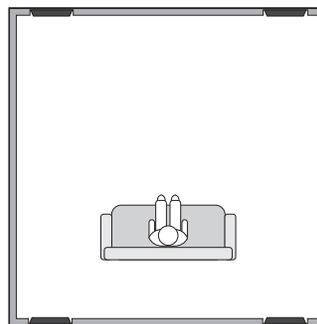
Broken lines in figures represent alternate placement for a pair of subwoofers.



**Fig. 1a** Two subwoofers close to floor in corners of room



**Fig. 1b** Two subwoofers close to floor in middle of walls



**Fig. 1c** Recommended placement for four subwoofers

## Color Match Painting

The grille of your MartinLogan In-Wall Subwoofer is finished in neutral white to blend into any room. However, the grilles may be painted to match any decor.

Please note:

- Do not paint the surface behind the grille
- Do not use a paint roller or brush

To Paint, Follow These Steps:

1. Remove the grille.
2. Remove the scrim. Set the scrim aside to install after the grille has dried.
3. In a well-ventilated area, spray a light coat of paint to the grille, letting the paint dry completely between coats. Always follow the paint manufacturer's directions.

**TIP!** Be careful to not plug the grille holes with paint. Do not paint the grilles when they are installed on the speaker.

## In-Wall Cavity Preparation

When considering subwoofer placement directly into a wall, keep the following in mind.

### Stiffening and Strengthening the Cavity

Although MartinLogan in-wall mounting systems are the most rigid on the market, when installing your subwoofer directly into a wall, to help avoid bass vibrations and minimize acoustic bleed-through, we recommend the following:

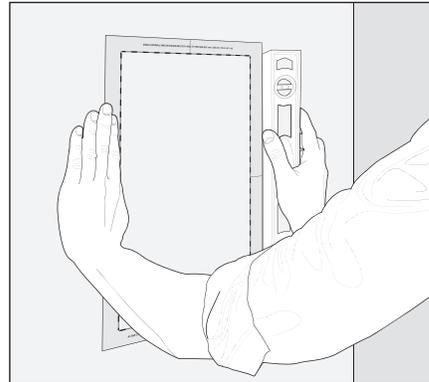
### Additional Bracing

Additional cross-bracing will further stiffen the cavity. We suggest placing two to three pieces of 2" x 4" (more if application allows) within the cavity, evenly spaced above and below the cutout. Additional bracing can also be sandwiched to the studs/joists on either side of the subwoofer.

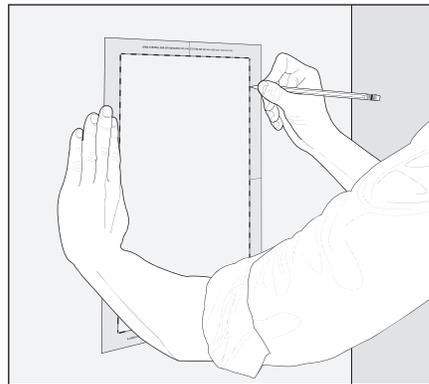
### New Construction

New construction offers an excellent opportunity to strengthen and stiffen the cavity with additional bracing or construction-grade stiffening adhesives applied directly to the drywall. **(See Dealer for more information).**

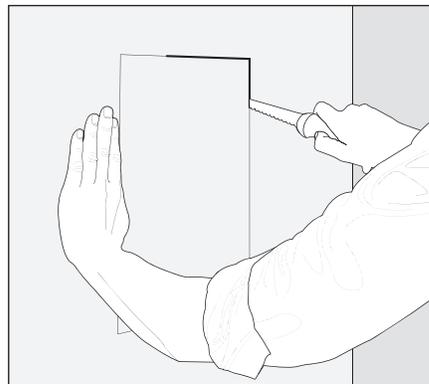
1. Place the mounting template onto the wall. Use a level to make sure it's straight (**Fig. 2a**).
2. Trace along the mounting template cut-out (**Fig. 2b**).
3. Cut a hole as indicated (**Fig. 2c**).



**Fig. 2a**



**Fig. 2b**



**Fig. 2c**

# DYNAMO IW-O & IW-S\*

## Wiring Connections

MartinLogan Dynamo in wall subwoofers present a load that is compatible with 8 ohms. Please refer to your amplifiers owner's manual for it's specific capabilities and wiring instructions.

## Subwoofer Installation

**IMPORTANT!** While it is possible to use a manual screwdriver for installation, we strongly suggest using a power drill. To avoid damaging or breaking the clamps, set your drill to a LOW setting. A high power setting is NOT necessary and may cause clamps to crack or break from the added force. **Such damage is NOT covered under warranty.**

1. Remove the magnetically attached baffle from the subwoofer assembly (**Fig. 4a**).
2. Set your Power Drill to the Low setting.
3. Gently position the assembly into the wall cavity (**Fig. 4b**).

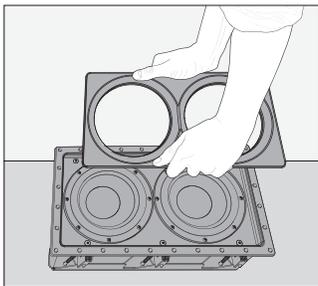


Fig. 2d

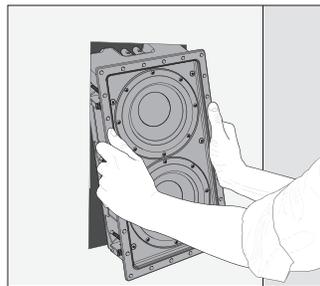


Fig. 4b

4. Supporting the assembly with one hand, tighten each screw (**Fig. 4c**). Stop tightening when you sense resistance.
5. Gently press the baffle onto the front face of the speaker (**Fig. 4d**). The magnets will ensure correct attachment.

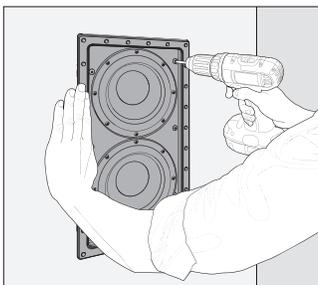


Fig. 4c

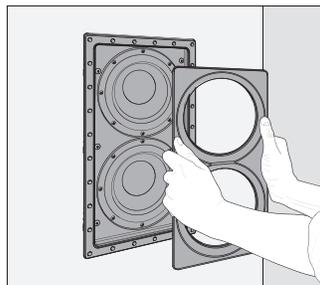


Fig. 4d

6. Gently press the grille onto the front face of the speaker (**Fig. 4e**). The magnets will ensure correct attachment.

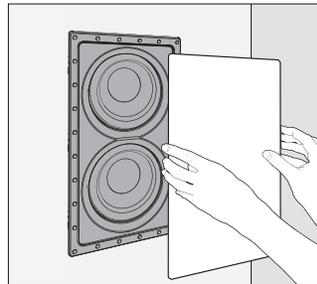


Fig. 4e

## Warranty and Registration

Your in-wall subwoofer is provided with an automatic Limited 90 Day Warranty coverage. You have the option, at no additional charge, to receive Limited 3-Year Warranty coverage. To obtain the Limited 3-Year Warranty coverage you need to register your product with MartinLogan. For your convenience MartinLogan offers online warranty registration at [www.martinlogan.com](http://www.martinlogan.com). Please retain your original sales receipt from an authorized MartinLogan dealer or distributor for proof of warranty terms and proof of purchase.

MartinLogan may not honor warranty service claims unless we have a completed warranty registration on file!

## Service

Should you be using your MartinLogan product in a country other than the one in which it was originally purchased, we ask that you note the following:

1. The appointed MartinLogan distributor for any given country is responsible for warranty servicing only on units distributed by or through it in that country in accordance with its applicable warranty.
2. Should a MartinLogan product require servicing in a country other than the one in which it was originally purchased, the end user may seek to have repairs performed by the nearest MartinLogan distributor, subject to that distributor's local servicing policies, but all cost of repairs (parts, labor, transportation) must be born by the owner of the MartinLogan product.
3. If, after owning your in-wall subwoofer for six months, you relocate to a country other than the one in which you purchased your subwoofer, your warranty may be transferable. Contact MartinLogan for details.

# SPECIFICATIONS\*

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## DYNAMO IW-0\*

<b>Design</b> .....	Dual high-excursion drivers, in-wall, GRIP™ chassis/mounting bracket, and optional backbox
<b>Low Frequency Driver</b> .....	Two 8" (210-mm) CFP™ carbonfiber-reinforced polypropylene cones, 1-1/2" (38-mm) voice coils, overmolded TPR™ surrounds, 1-1/2" (38-mm) 8-layer copper wire voice coils, high-temperature polyamide formers, ceramic/ferrite magnet structures
<b>Internal Volume</b> .....	88L "standard" wall cavity (26L when installed in optional backbox)
<b>Frequency Response</b> .....	+/-3dB from 30>190 Hz
<b>Low Frequency Extension</b> .....	25 Hz (DIN)
<b>Suitable Amplifier Power Range</b> .....	50-800 W
<b>Maximum Input Power</b> .....	400W
<b>Minimum Mounting Depth</b> .....	3-1/2" (8.9cm)
<b>Cut-Out Dimensions</b> .....	18" x 9-5/8" (45.7cm x 24.5cm)
<b>Weight</b> .....	15lbs (6.8kg) each
<b>Mounting Dimensions</b> (h x w x d) .....	19-1/8" x 10-3/4" x 3-1/2" (48.5cm x 27.2cm x 8.9cm)
<b>Finish</b> .....	White, paintable

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### DYNAMO IW-S\*

<b>Design</b> .....	Dual 8" high-excursion drivers, in-wall, GRIPTM chassis/mounting bracket with custom steel enclosure, amplifier required (sold sep.)
<b>Low Frequency Driver</b> .....	Two 8" (210-mm) CFP™ carbon-fiber-reinforced polypropylene cones, 1-1/2" (38-mm) voice coils, over-molded TPR™ surrounds, 1-1/2" (38-mm) 8-layer copper wire voice coils, high-temperature polyamide formers, ceramic/ferrite magnet structures
<b>Internal Volume</b> .....	7.5L
<b>Frequency Response</b> .....	+/-3dB from 77->190 Hz
<b>Low Frequency Extension</b> .....	35 Hz (DIN)
<b>Suitable Amplifier Power Range</b> .....	50-600 W
<b>Maximum Input Power</b> .....	300W
<b>Minimum Mounting Depth</b> .....	3-7/8" (9.8cm)
<b>Cut-Out Dimensions</b> .....	18" x 9-5/8" (45.7cm x 24.5cm)
<b>Weight</b> .....	26.7lbs (12.5kg) each
<b>Mounting Dimensions</b> (h x w x d) .....	19-1/8" x 10-3/4" x 3.9" (48.5cm x 27.2cm x 9.8cm)
<b>Finish</b> .....	White, paintable

# NOTES

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2101 Delaware Street, Lawrence, Kansas, USA tel. 785.749.0133 [www.martinlogan.com](http://www.martinlogan.com)

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