



# **Control<sup>®</sup> Contractor Series**

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**Control 126W**

**Control 128W**

**Premium In-Wall Loudspeakers**

**Installation Manual**

Thank you for purchasing JBL Professional Premium In-Wall Loudspeakers. Read through this Installation Manual and familiarize yourself with the product features and applications before using the product.

## Product Description

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**Control 126W** is a two-way loudspeaker system featuring a 6.5-inch, polymer coated aluminum woofer. The high frequency device is a 1-inch titanium dome tweeter. The tweeter housing is swivel-mounted and interfaces with a low-diffraction waveguide for optimal performance. The system is rated for 8-Ohm impedance.

**Control 128W** is a two-way loudspeaker system featuring a 8-inch, polymer coated aluminum woofer. The high frequency device is a 1-inch titanium dome tweeter. The tweeter housing is swivel-mounted and interfaces with a low-diffraction waveguide for optimal performance. The system is rated for 8-Ohm impedance.

## Applications

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The Control 100 Series In-Wall speakers are designed for applications such as foreground music, boardrooms, reception areas, airports, convention centers, cruise ships, retail outlets, restaurants, museums, surround locations, or any critical listening application where top performance from a loudspeaker with minimal visual impact is required.

### Rear Air Cavity Considerations

The Control 100 series is designed to function over a wide span of rear air cavity sizes within the wall. The OPTIMUM air cavity (sometimes called "loading volume") for fullest low-frequency performance is listed below for each model. The Air-Cavity height figure given is for standard stud construction, with studs spaced at 16-inches on-center. It is recommended that the air cavity behind the speaker be sealed by the use of silicone sealant or similar material to help create an air-tight seal and minimize wall noise.

#### Control 126W

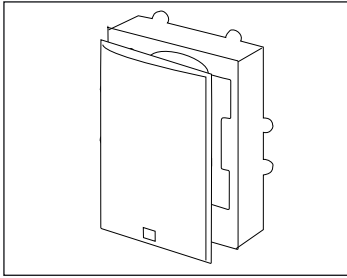
Optimum Air Cavity	20 to 40 Liters (0.7 to 1.4 cu ft)
Cavity Height for 16-inch-on-center wall stud spacing	560 to 810 mm (22 to 32 in)

#### Control 128W

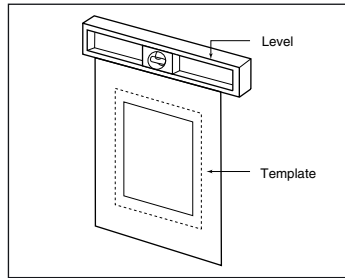
Optimum Air Cavity	40 to 80 Liters (1.3 to 1.9 cu ft)
Cavity Height for 16-inch-on-center wall stud spacing	1140 to 1620 mm (45 to 64 in)

# Installation

## Existing Construction

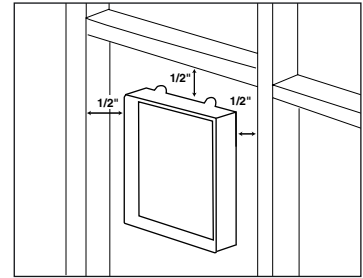


Remove the grille from the speaker frame by pulling on the paper tab. If the tab is missing, to avoid scratching the grille or baffle you may unfold a paper clip, insert the straight end through one of the holes in the grille, and gently pull up.

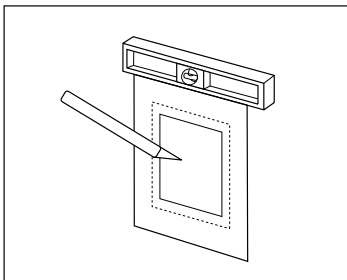


Determine the correct speaker location.

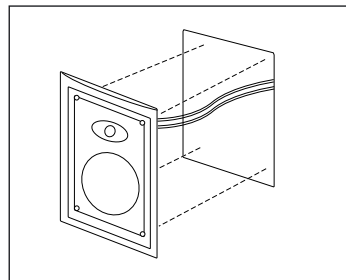
**Note:** Remove the inner template, which is the paint shield, at the perforation. Use the outer template when cutting the dry-wall.



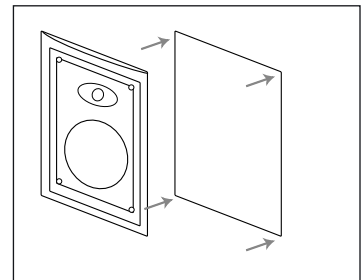
**Note:** Always allow at least one-half inch between a wall stud and the speaker cutout or the locking tabs will not be able to swivel into place.



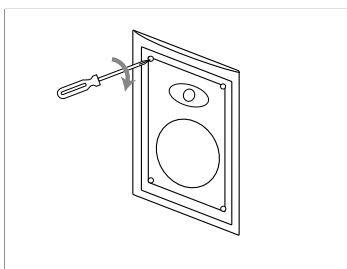
Cut the drywall.



Connect the speaker wires to the speaker.

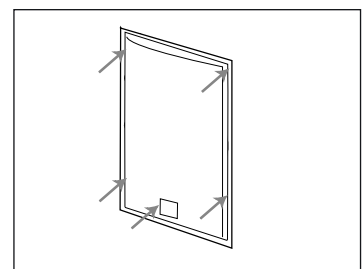


Place the frame assembly in the wall.



Screw down each of the four Phillips head screws. The locking tabs will swivel into place and secure the unit to the rear surface of the drywall.

The In-Wall speakers feature unique swivel mounts for the tweeters that enable you to aim the very directional high frequencies toward the listening position. Before installing the speaker grille, gently press on the outer edge of the tweeter mount to adjust the position of the tweeter. The tweeter will not swivel more than 10 degrees in any direction; do not attempt to force it to move further. You may also rotate the tweeter to orient the JBL logo as desired.



Replace the metal grille

## Installation - Cont'd.

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### New Construction

Rough-In frames are available for each Control 100 Series In-Wall model. These frames are used to predetermine the location of each speaker before drywall is installed by attaching directly to the wall studs. The frame also acts as a template for cutting out the drywall, and has clips for holding pre-run wiring. The frames come with detailed instructions. Be sure to choose the correct rough-in frame for the model of speaker you are using.

<b>Speaker</b>	<b>Frame</b>
Control 126W	MTC-126RIF
Control 128W	MTC-128RIF

### Wiring

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JBL Professional recommends using the largest wire gauge possible for the best performance. The input terminals on the Control 100 Series In-Wall speakers will accept up to 14 AWG wire. It is not recommended to use smaller than 18 AWG wire.

### Painting the Speaker Frame and Grille

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JBL Control 100 Series loudspeakers can be painted to match any decor. If you wish to change their color, the satin finish on the grille and frame will function as a primer coat.

Before painting, install the paint shield (the punchout from the cardboard cutout template) securely into the recess in the baffle. This will protect the speaker components and baffle from paint residue. Use a high quality spray paint, and apply a thin coat of color

Be certain the grille perforations remain free of paint. Filling them with paint will diminish the sound. Gently remove the acoustical foam blanket from the grille before painting. Reattach the blanket after the paint has dried.

**JBL Professional**  
8500 Balboa Boulevard  
Northridge, CA 91329 U.S.A.

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