

# INSTRUCTION / INSTALLATION SHEET

## evōQ™ 5000 In-Ceiling and In-Wall Speakers

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### IS-0259 Rev. A

### 1. Introduction

On-Q/Legrand offers two (2) styles of evōQ™ 5000 Home Theater Speakers; In-Ceiling and In-Wall plus a 10" Sub-Woofer. There are two sizes of both the In-Ceiling and In-Wall styles (6.5" and 8"), each with its own part number (as shown to the right). The speakers are optimized for the demands of home theater sound. All models (except the Sub-Woofer) are 2-way speakers that feature Poly woofers and UFLC (Urethane Film Laminated Cloth) Dome tweeters. The In-Ceiling and In-Wall speakers come with dual templates with center markings and paint rings. Optional speaker pre-construction brackets are available for them.

**Note: \*P/N 364664-01, 10" 150W Sub-Woofer, is for reference only and NOT part of this instruction sheet.**

**Disclaimer: Make sure you are in compliance with local building codes before installing these speakers.**



6.5" – P/N 364660-01 (ea.)  
 8" – P/N 364661-01 (ea.)

**In-Ceiling Style**  
 (shown w/o grill)



6.5" – P/N 364662-01 (ea.)  
 8" – P/N 364663-01 (ea.)

**In-Wall Style**  
 (shown w/o grill)

\* 10" Sub – P/N 364664-01 (ea.)

**10" Sub-Woofer**  
 (not shown)

### 2. Description

The On-Q/Legrand evōQ™ 5000 speakers are made of a tough semi-flexible plastic frames that feature a built in foam gasket to minimize vibration and maximize seal-ability. They also feature a perforated metal grill with an acoustically transparent scrim cloth to enhance the speakers appearance once installed. All evōQ speakers, except sub woofers, are paint-able. They also come with painting shields to protect the drivers while painting. These speakers are suitable for moisture rich environments. They also feature flip out tabs for easy installation and removal.

### 3. Installation

Installation of the evōQ™ 5000 speakers is best accomplished at multiple times during new construction, at "Rough-in" before the drywall is installed, and at "Trim-out" after the drywall is installed and painted.

A. "Rough-in" steps:

**NOTE: It is recommended that a minimum of 16 gauge, 2 conductor wire be used for most applications from the amplifier or volume control to the speaker. Different gauges can, and should, be used based upon the distance of the intended run or quality of installation (see Figure 2).**

**NOTE: All On-Q/Legrand lyriQ™ Audio components accommodate wire gauges from 18 to 14.**

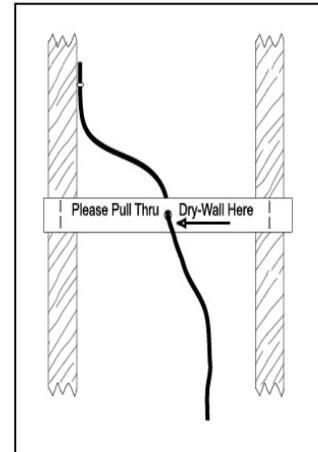
**Speaker Wire Gauge Selection Chart**

Distance	Gauge
<10 Feet	18
10-50 Feet	16
>50 Feet	14

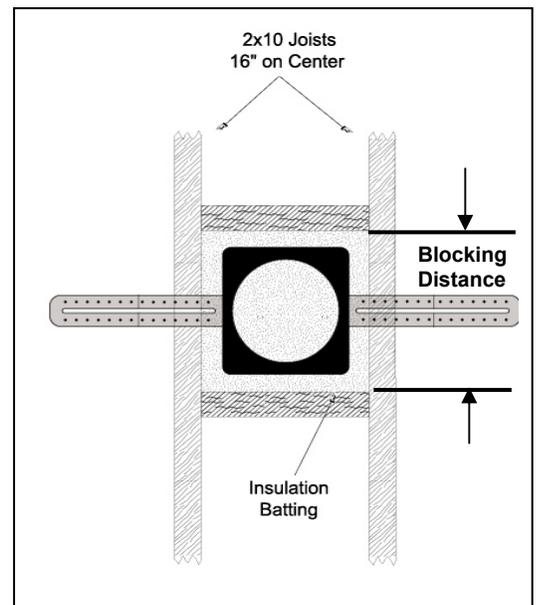
**Figure 2**

1. Run x/2 conductor (x=gauge preference) stranded speaker wire from the distribution/volume control to the speaker location (pre-wiring).

2. If an On-Q Speaker Pre-Construction Bracket is to be used, skip to **Step "5"** and refer to IS-0243 for detailed instructions.
3. If pre-wiring without using the On-Q Pre-Construction Speaker Brackets, leave 4 to 6 feet of wire at the speakers intended location. Use a strip of cardboard stapled to the joints/studs with a hole through it as a wire place holder for the drywall installers if installation of the speakers is intended (*see Figure 3*).
4. After drywall and/or painting is complete, push wire through hole, center template over hole, mark with a pencil and cut out with a dry-wall knife.
5. When using the On-Q Pre-Construction Bracket (*see Figure 4*), leave a coil of speaker wire on top of the bracket coiled around the speaker mounting hole. There are clips on the corner of the bracket to secure the speaker wire. Leave enough speaker wire to be able to pull the wire through the bracket and comfortably connect the wire to the speaker after the drywall is installed. Strip off 3 inches or so of the speaker cable jacket to expose the positive and negative insulated wires. Strip 3/8-1/2 inch of insulation off of these conductors.
6. It is recommended to place insulation behind the speaker to provide some damping for the woofer driver. This will yield the best possible sound. On-Q recommends using poly-encapsulated insulation such as Johns Manville Comfort Therm®. If a defined, consistent sound is desired from both speakers in a space, blocking can be installed to yield the ideal cubic footage for each driver. Insulation would then be put in this space during speaker installation. **Refer to blocking chart for details.**
7. If installing speakers in a space with an attic above it is recommended that the speakers be boxed in with 1/2 inch MDF (medium density fiber board) or plywood with insulation installed. This will provide a defined acoustic space and protect the speaker. The best possible sound will be achieved by doing this. **Refer to the blocking chart for details.**



**Figure 3**



**Figure 4**

**Note: Make sure you are in compliance with local building codes before installing this speaker in an attic space.**

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B. "Trim-out" steps:

1. After drywall and/or painting is complete, push the speaker wire through hole, center template over hole, mark with a pencil and cut out with a dry-wall knife.
2. Hold the speaker with one hand, (if speaker grill is off, pay careful attention **not** to push on the woofer's cone, this can cause permanent contortion of the voice coil, thus producing a mechanical rubbing sound or speaker failure), push in the speaker terminal connectors and insert wires; remove speaker grill. Be sure to have the positive wire in the RED terminal and the negative wire in the BLACK terminal.

**NOTE: Wiring both speakers identically as the above instruction states will yield speakers that are "in phase". If one speaker is wired opposite of the other, the speakers will be "out of phase" with one another. If the speakers are "out of phase" the sound might appear smeared (canned) and a significant loss of bass might be noticeable due to phase cancellation. Make sure every installed speaker is correctly phased.**

3. Use one hand to push the speaker into the cut out (again, pay careful attention **not** to push on the woofer's cone, this can cause permanent contortion of the voice coil, thus producing mechanical rubbing sound or speaker failure) and the other to turn the screws that engage the installation tabs (see **Figure 5**). Tighten the tabs in a cross or X-pattern until "snug". Be careful not to over tighten the tabs or damage could result. The speaker should appear flush to the surface.

**NOTE: If using a cordless drill/screwdriver, it is suggested that the screws be turned until almost tight, then finish tightening via a hand screwdriver.**

**NOTE: A strip of grill adhesive is provided to more securely attach the speaker grills on final installation. Simply insert several short strips evenly around the grill slot prior to insalling the grill cover.**

evōQ™ Speaker Blocking Chart	
6.5" Speaker (0.7 CuFt)	Blocking Distance
16" on Center, 2x4	24.00"
16" on Center, 2x6	15.25"
16" on Center, 2x8	11.50"
16" on Center, 2x10	9.00"
16" on Center, 2x12	7.50"
24" on Center, 2x4	15.50"
24" on Center, 2x6	10.00"
8" Speaker (2.1 CuFt)	Blocking Distance
16" on Center, 2x4	71.50"
16" on Center, 2x6	45.50"
16" on Center, 2x8	34.50"
16" on Center, 2x10	27.00"
16" on Center, 2x12	22.25"
24" on Center, 2x4	46.00"
24" on Center, 2x6	29.50"

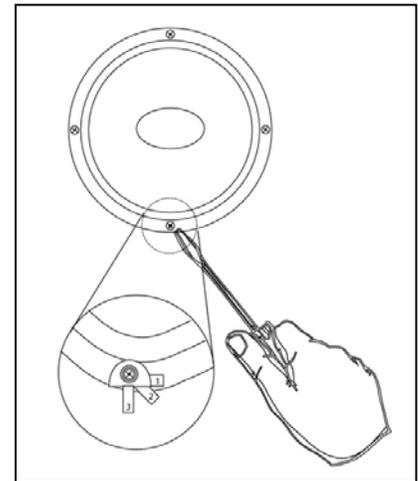


Figure 5

### Speaker Specifications

	evōQ™ 5000	evōQ™ 5000	evōQ™ 5000	evōQ™ 5000
Size/Type	6.5" In-Ceiling	6.5" In-Wall	8" In-Ceiling	8" In-Wall
Efficiency	90dB	90dB	90dB	90dB
Power (RMS/Peak)	75W/150W	75W/150W	100W/200W	100W/200W
Frequency Response	60-20K	60-20K	50-20K	50-20K
Woofer Type	Poly	Poly	Poly	Poly
Tweeter Type	UFLC	UFLC	UFLC	UFLC
Drywall Hole Size	7.75" dia.	7.5" x 10.75"	9.5" dia.	8.75" x 12.75"