

### 1. Introduction

Legrand offers the evōQ™ 5000 Home Theater 10" 150W Sub-Woofer for those instances where extended base response is required. This speaker, part number HT5104, (see **Figure 1**), is optimized for the home theater environment. It features a 10" poly cone woofer, a ported cabinet and is typically placed on the floor (see **Figure 4**).

**Note: This Legrand evōQ™ 5000 Home Theater 10" 150W Sub-Woofer is not a moisture resistant speaker.**



Figure 1

### 2. Description

The Legrand evōQ™ 5000 Home Theater 10" 150W Sub-Woofer is a cube approximately 15.5" tall x 12.25" wide x 14.3" deep. It is made of black vinyl covered MDF, and is a ported unit designed to be placed where base response is best, supporting the non-directional nature of its base frequency output. It features RCA connections for line level input, a volume control, a crossover bypass switch and adjustment (50-200Hz) and a phase reversal switch. It also features a removable fabric grill cloth to enhance the sub-woofer's appearance when installed. This is a powered sub-woofer, and as such needs to be placed within 6 feet of a 120VAC 60Hz electrical outlet.

### 3. Installation

Installation of the evōQ™ 5000 Home Theater Sub-Woofer, 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:

1. The evōQ™ 5000 10" 150W Sub-Woofer may be installed in a variety of ways with respect to the rest of the home theater equipment and structured wiring system. It contains line level inputs (RCA connectors) (see **Figure 2**)



Figure 2

2. Separate source outputs from a home theater receiver may be run to the sub-woofer and associated speakers independently. The Legrand HECC for instance has separate outputs for a sub-woofer, from the rest of the speakers.
3. Pre-wire cabling from the source location to the intended sub-woofer location can be RG6QS coaxial cable or RCA jumper cables depending on the intended location of the sub-woofer.
4. To cable from the source using coax cable in the wall, pre-wire two RG6QS cables from the source location to the intended sub-woofer location.
5. To cable from the source at line level utilizing RCA jumper cables, simply connect the jumper cable from the source to the sub-woofer.

B. “Trim-out” steps:

1. Terminate both ends of the RG6QS coax cables with appropriate ‘F’ connectors and use RCA to ‘F’ connector inserts, (see **Figure 3**).

Figure 3



**NOTE:** The HT5104 includes a L.F.E. (Low Frequency Effect) input – “Right In” RCA Line Level input. For receivers with an L.F.E. output, both left and right audio signals will be carried on the L.F.E. output to the sub-woofer (no connection to the “Left In” RCA connector is needed. In this case, the “Crossover” switch can be set to the “Bypass” position, as the receiver with L.F.E. output will control the frequency output to the sub-woofer. If the receiver does not have an L.F.E. output (or you are unsure if it does), set the “Crossover” switch to the “On” position, and use the “Low Pass Filter Hz” knob to adjust the frequencies reproduced by the sub-woofer (the 12 o’clock position is recommended as a starting point). If the receiver has only one sub-woofer output, a Y-cable (available separately) can be used to connect both “Right and Left In” Line Level RCA Input connections on the rear of the sub-woofer.

**NOTE:** The crossover adjustment on the evōQ™ 5000 10” 150W Sub-Woofer is used to determine the frequency point (cutoff point of the low pass filter) at which source input goes to the sub-woofer (adjustable from 50-200HZ). This adjustment is dependent on the quality of the source equipment and quality of the rest of the speaker system. Try a variety of source material to insure the adjustment is appropriate.

**NOTE:** Some amplifiers reverse the phase of sub-woofer outputs in respect to the phase of the rest of the speaker outputs. The evōQ™ 5000 10” 150W Sub-Woofer has a “Phase” reversal switch on the back that allows for proper phasing regardless of amplifier output. Try both positions of the switch with bass rich content to determine which position sounds best for a particular installation.

**TIP:** To determine the best location for a sub-woofer, place the sub-woofer in the location that you normally listen to music and walk around the outside of the room until you find a spot that seems to have the most pronounced bass output. That is the location where the sub-woofer should be placed.



Figure 4

#### Speaker Specifications

EVÖQ™ 5000 10” 150W SUB-WOOFER	
Size/Type	10" Floor Mount
Efficiency	Powered
Power (RMS/Peak)	150W RMS
Frequency Response	50-200K
Woofer Type	Poly Cone
Tweeter Type	N/A
Drywall Hole Size	N/A