1. Introduction

On-Q/Legrand offers an evōQ™ 5000 Home Theater 10” 150W Sub-Woofer for those instances where extended base response is required. This speaker, On-Q part number HT5104, (see Figure 1), is optimized for central audio distribution (central sound) and the home theater environment. It features a 10” Poly woofer and is typically placed on the floor.

Note: This On-Q/Legrand evōQ™ 5000 Home Theater 10” 150W Sub-Woofer is not a moisture resistant speaker.

2. Description

The On-Q/Legrand evōQ™ 5000 Home Theater 10” 150W Sub-Woofer is a cube approximately 15” square. It is made of black vinyl covered MDF, and is a sealed unit designed to be placed where base response is best, supporting the non-directional nature of its base frequency output. It features connections for both line level input and speaker level input and output, a volume control, a crossover 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 On-Q 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:

NOTE: It is recommended that a minimum of 16 gauge, 2 conductor stranded wire be used for applications from the amplifier speaker out terminals or volume control speaker out connections to the sub-woofer when speaker level connections are used. Different gauges can, and should, be used based upon the distance of the intended run or quality of installation (see Figure 2). Line level outputs from an amplifier to the sub-woofer are discussed below.

NOTE: All On-Q/Legrand lyriQ™ Audio components accommodate wire gauges from 18 to 14.
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 both line level inputs (RCA connectors) and speaker level inputs and outputs (terminated with binding posts). (see Figure 3)

2. Using the speaker level connection method, the output of the source material may be sent to the sub-woofer first, and then its outputs may be used to drive the rest of the associated speakers. Using the line level connection method, separate source outputs from a home theater receiver may be run to the sub-woofer and associated speakers independently. The On-Q/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 or high quality speaker wire, depending upon which method (line-level vs. speaker-level) and which topology (as discussed above) is selected.

4. To cable from the source at a line level, pre-wire two RG6QS cables from the source location to the intended sub-woofer location.

5. To cable from the source at speaker level, pre-wire a pair of high quality speaker wires from the source location to the intended sub-woofer location.

6. If a topology is desired where the source is cabl ed to the sub-woofer and then the sub-woofer feeds the rest of the speakers, at pre-wire you will need to run two more high quality speaker wires from the sub-woofer location to the location of the other speakers, or back to the speaker distribution point (source). This will require four more binding post inserts at the sub-woofer location.

B. “Trim-out” steps:

1. Terminate both ends of the RG6QS cables with appropriate ‘F” connectors and use On-Q RCA to ‘F’ connector inserts. (see Figure 4).

2. 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 and connect to four On-Q binding post inserts, two red and two black. (see Figure 5) The Sub-woofer inputs will then be connected to these inserts with high quality speaker wire.

3. Remove the 4 feet from the supplied bag and screw them into the four bottom corners 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. (see Figure 6)

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### Speaker Specifications

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<tr>
<th>evōQ™ 5000 10” 150W SUB-WOOFER</th>
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<tbody>
<tr>
<td>Size/Type</td>
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