



Control Contractor Ceiling Speakers Myth vs. Reality

Myth

Reality

CEILING SPEAKER SYSTEMS IN GENERAL

<p><i>“A premium system is so much more expensive. Some of my customers don’t see the value of paying for better sound quality in their business.”</i></p>	<p>COST OF PREMIUM PERFORMANCE:</p> <ul style="list-style-type: none"> • The JBL Control Contractor Ceiling Speakers provide premium-level performance at a value price. • The wide coverage and high SPL capability of the Control Contractor Ceiling Speakers allows the use of fewer speakers, resulting in lower system cost than the tight-spaced layout that narrower speakers require. • Premium systems do not necessarily cost much more than commodity systems. Audio technology has improved so much in recent years that the cost difference between commodity and premium systems has narrowed substantially. • For those systems that do cost more, the system “pays for itself” very quickly. Locations with the highest sales per square foot are the ones who are most careful about sound quality, music programming, and customer satisfaction. <p>VALUE OF PREMIUM PERFORMANCE:</p> <ul style="list-style-type: none"> • As consumers get used to better quality sound in their homes, cars and entertainment spaces, their expectations have grown for better quality sound in commercial spaces. • Using premium quality audio systems can help increase sales through improved customer perceptions of the business’s products or services. • It has now been well established that the quality of music in commercial spaces greatly impacts the customer’s perceptions of the products or services of the establishment. The dollar payback is substantial. High quality music also increases the friendliness and job satisfaction of the employees.
<p><i>“You can’t run a ceiling speaker system above a certain nominal sound level.”</i></p>	<ul style="list-style-type: none"> • Commodity ceiling speakers typically distort badly after only a few watts of power, Control Contractor Ceiling Speakers are designed to maintain full fidelity throughout their entire power range ratings.
<p><i>“It is not advisable to mix ceiling speakers with surface-mount speakers on the same speaker line.”</i></p>	<ul style="list-style-type: none"> • Similar sonic voicing between ALL the speakers in the Control Contractor line – both ceiling and surface-mount – allows for mixing and matching of the various models while maintaining consistent sound throughout the listening area.
<p><i>“With ceiling speakers you need access above of the ceiling or ceiling tiles”</i></p>	<ul style="list-style-type: none"> • The JBL Control Contractor Speakers install from underneath the ceiling or ceiling tiles. The tile rail support system, which is included with each speaker, can be fed through the cutout without requiring top access.
<p><i>“It is hard to get ceiling speakers for my customers that look as upscale as their place of business, yet don’t draw attention to themselves.”</i></p>	<ul style="list-style-type: none"> • Architects, interior designers, space planners, building developers, and business executives are demanding nicer looking speakers. The flat punched metal look just doesn’t cut it these days. JBL Control Contractor Ceiling Speakers are styled with an upscale aesthetic appearance that subtly complements any decor.

Myth

Reality

CONTROL 24C & 26C

<p><i>“Ceiling speakers must be run on a 70V system, requiring a more expensive amplifier that is made specifically for distributed speaker systems.”</i></p>	<ul style="list-style-type: none">• The “non-T” versions of the Control Contractor Ceiling Speakers are 16-ohms instead of the more typical 8-ohms. In many cases, this allows paralleling of many of these non-transformer models on a standard amplifier, without requiring the added expense of a constant-voltage amplifier.• In those cases requiring “T” version speakers, high quality transformers allow the “T” speakers to sound very similar to the non-T speakers.
<p><i>“Including the tile-rail suspension hardware makes the speakers expensive.”</i></p>	<ul style="list-style-type: none">• JBL developed a simple system for securing the speakers to suspended ceiling tiles. It enables us to include the suspension hardware with every speaker. A backing support plate is also included. This ensures installers of always having the hardware on the jobsite that covers virtually any installation requirement.

CONTROL 19CS SUBWOOFER

<p><i>“I can’t believe such a small enclosure can produce any kind of meaningful bass.”</i></p>	<ul style="list-style-type: none">• The Control 19CS’s Nested Chamber™ designs wraps one chamber around the other chamber, resulting in impressive bass from an extremely compact enclosure.• The Linear Dynamics Aperture (LDA)™ port design – originally developed for JBL’s concert system subwoofers – produces maximum bass output.• A single Control 19CS delivers a whopping 107 dB of continuous bass output when installed in the center of the ceiling, 110 dB when located close to a wall and 113 dB of bass when installed within 3 feet of a corner.
<p><i>“I can’t find an in-ceiling subwoofer shallow enough to fit into most of my applications.”</i></p>	<ul style="list-style-type: none">• The Control 19CS extends only about 12 inches from the back of the ceiling, allowing it to fit into most applications.
<p><i>“I can’t run a low impedance subwoofer along with my 70V speaker system, so won’t I need two different power amplifiers?”</i></p>	<ul style="list-style-type: none">• JBL’s new MPC power amplifiers allow solving this problem in two ways:<ul style="list-style-type: none">a) MPC amps permit operation of a direct output (to the subwoofer) <u>and</u> a 70V output (to the 70V speakers) from the same channel simultaneously. You may have to adjust the power taps on the 70V speakers or adjust the position of the subwoofer in relation to the wall or corner to set the proper balance.b) MPC’s are two-channel amps, so you can drive the 70V speakers from one channel and one or more low impedance subwoofers from the other channel.

CONTROL 19CST TRANSFORMER VERSIONS

<p><i>“Don’t all transformers saturate at low frequencies, messing up the amplifier signal?”</i></p>	<ul style="list-style-type: none">• Most transformers would not work for a subwoofer, but the Control 19CS uses a special transformer developed specifically for use with subwoofers. This high grade full-isolation transformer allows use at full volume down to 35 Hz. It is recommended that the installer high-pass the signal at 35 Hz or higher. The new JBL MPC amplifiers come with a 45Hz high-pass filter pre-installed for this reason.
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REALITY

Choosing a loudspeaker system has never been easier: Simply select the JBL Control Contractor loudspeakers appropriate to the architectural or form factor requirements of the specific installation. The result is a sound system that ALWAYS delivers premium JBL quality sound.