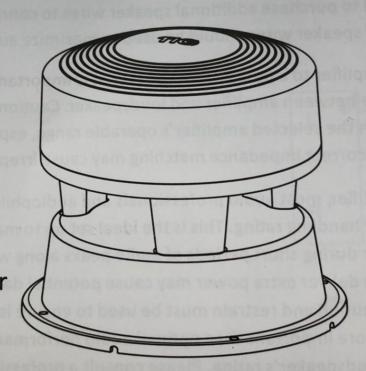
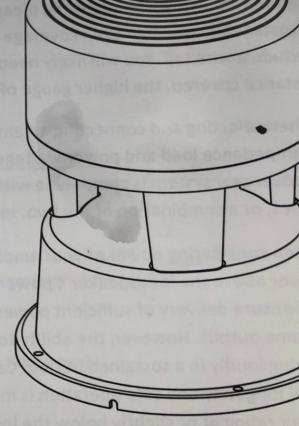


# **B** series

Outdoor Omnidirectional In-Ground/Surface-Mount Speaker





Instruction Manual

B06/B16/B03/B13/B04/B55

**B50** 

#### Before you begin

A passive outdoor loudspeaker system is one of the best audio entertainment investment you can make for both residential and commercial installations. Investing the time and labor to install a wired speaker system will provide the safest and most dependable sound solution that can be easily upgraded and customized over time.

Before connecting the speakers, please take the time to design and review the overall system, making sure the speakers are well-situated to provide an even coverage with adequate sound level. Depending on the specific model, the speaker may or may not include a wire tail. You will likely need to purchase additional speaker wires to connect the entire sound system. The longer the distance covered, the higher gauge of speaker wires should be used to maximize audio performance.

When selecting and connecting an amplifier to a passive loudspeaker, it is important to understand the relationship and impact of impedance load and power wattage between amplifier and loudspeaker. Caution must be used to ensure impedance load of loudspeaker system is compatible with the selected amplifier's operable range, especially when loudspeakers are wired in parallel, series, or a combination of the two. Incorrect impedance matching may cause irreparable harm to your audio equipment.

When considering power of your amplifier, most audio professionals and audiophile will recommend an amplifier with an output power above the loudspeaker's power handling rating. This is the ideal set up to maximize audio performance as the extra power will ensure delivery of sufficient power during short periods of audio peaks along with fuller dynamic range and effortless loud volume output. However, the ability to deliver extra power may cause potential damage to the loudspeaker, especially when playing loudly in a sustained period. Caution and restrain must be used to ensure longevity of the loudspeaker under the ideal set up. If longevity and safe operation is more important than optimal audio performance, you should select an amplifier with a RMS power rating at or slightly below the loudspeaker's rating. Please consult a professional installer if you are unsure about impedance and power level matching.

If you need help or have further question, please contact us at www.ticcorp.com.

### **Installation/Maintenance Note**

- The B series speaker can be installed in-ground or surface-mounted. In-ground installation is generally optimal since burying speaker in-ground will enhance its resonance, providing a fuller audio experience. When mounted on a surface, please ensure the wiring is safely secured and does not become a tripping
- For in-ground installation, only burial-grade insulated speaker wires should be used. Conduit can be used alternatively in conjunction with standard speaker wires. Wire/conduit should be buried 4-6" below ground.

hazard. The optimal burial depth is 1 inch exposure from ground level for the bottom section.

- For connecting/extending speaker wires, we highly recommend using waterproof wire connector (ie. SPC-CN1).
- Alternately, silicon can be applied to the opening of standard wire nut to provide water protection. The B series is
  designed to water-resistant not waterproof. It is not designed to be protected against total water submersion, such
  as heavy flooding. With the raised, downward facing profile, it's unlikely for the speaker to be submerged in water
  under normal rain and snow condition. Please use caution and consider relocating the speaker when there is
  chance for heavy flood or snowfall.
- System should be fully tested above surface before speakers and wires are buried.
- If sound is muddled or multiple speakers are not in sync, please check to ensure wire polarity is correct.
- To clean speaker, you can rinse with fresh water from directly above the speaker and wipe with a cloth. If needed, use mild detergent to remove dirt.

## **70v Operation**

B13/B16 speaker can operate in both standard  $8\Omega$  mode and 70v mode. The 70v opon, which is a constant voltage system, offers ease of installaon for audio system with large quanes of loudspeakers and minimize the concern for power loss over long distance wire runs. However, there are also disadvantages to 70v system such as limitaons to mono output and degradaon of signal, especially in low frequencies, though oen not noceable except by discerning ears. 70v is oen the preferred choice in large installaons, such as many commercial projects, for both PA systems and background music systems. If you are unsure about 70v, please contact TIC or a trusted AV professional for consultaon.

If you are using B13/B16 with a regular amplifier, please set dial to  $8\Omega$  and connect as normal.

To operate in 70v mode. you must ulize a 70v amplifier. Simply set the dial to any of the waage seng and connect the speaker to a 70v amplifier that has power output at least 20% greater than the summaon of all speakers's waage seng within the sound system. The 20% headroom ensures opmal performance and longevity to both amplifier and speakers. The correct waage seng will depend on your volume and sound sculpng requirement and the power output of your amplifier.

## **Specification**

	<u>B03</u>	B13	<u>B06</u>	<u>B16</u>	<u>B50</u>	<u>B04</u>	<u>B55</u>
Туре	Single Coaxial	Single Coaxial	Single Coaxial	Single Coaxial	Subwoofer	3-Way DVC	Omnidirectional Single Channel Subwoofer
Driver Size	8" woofer 2" tweeter	8" woofer 2" tweeter	6" woofer 2" tweeter	6" woofer 2" tweeter	8" subwoofer	8" woofer 2 x 2" tweeters	8" subwoofer
Power Handling (RMS/Peak)	100W/200W	100W/200W (8Ω Mode)	75W/150W	75W/150W (8Ω Mode)	125W/250W	100W/200W	125W/250W
Impedance	8Ω	8Ω/70v	8Ω	8Ω/70v	$8\Omega$ standard $4\Omega$ (with satellites)	$8\Omega$ /channel $4\Omega$ (parallel) $16\Omega$ (series)	8Ω