

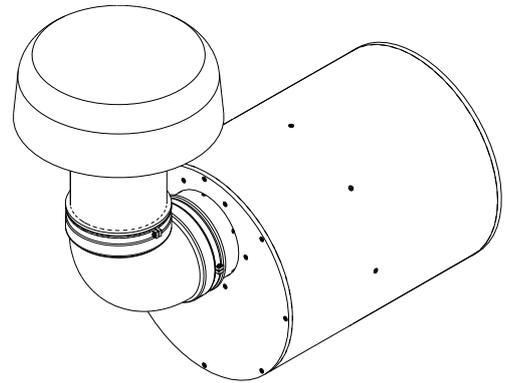
ES-LS-BSUB-12

8Ω Landscape Burial Subwoofer

Welcome to Episode®

Thank you for purchasing a great product from Episode®, one of the best-performing and most reliable loudspeaker lines available today. We appreciate your purchase and are committed to providing the highest-quality products possible.

The Episode 12" 500-Watt Burial Subwoofer has been specifically designed to integrate into any outdoor loudspeaker installation to provide optimized bass response for an area between 2,000 and 3,000 square feet. Its rugged 5/8" HDPE construction assures years of trouble-free use.



1. Package Contents

Box 1

- ES-LS-BSUB-12-CPR with 3 feet of Direct Burial 16-2 cable attached
- (2) Silicone-Filled Weatherized Wire Nuts

Box 2

- Weatherized Canopy
- Port Tube with Compression Clamps

2. Tools Required

- Wire Strippers
- Digging Tools (such as shovel, pickaxe, etc. as needed for the soil type)
- Tape Measure
- Slotted Screwdriver (for securing the compression clamps)
- Pea Gravel (optional, recommended as a drainage base for high clay content soils)

3. Important Instructions and Considerations for Installation

- Read and follow all instructions.
- Before beginning the installation, be sure to carefully plan locations, accounting for potential electrical, plumbing, irrigation, or other obstacles.
- Many localities restrict any digging without prior notification due to possible buried utility lines or piping. Contact local authorities before installation to ensure any regulations or requirements are met.
- Contact a suitable contractor if you are unsure of how to best install the product.

4. Product Requirements

- This subwoofer is a band-pass design, optimized for use with the Episode® 1000-watt 2-channel amplifier with custom-tuned DSP settings, or a specialized subwoofer amplifier with a low-pass filter. It requires an 8Ω-stable amplifier or a 4Ω-stable amplifier if two subwoofers are to be wired together in parallel.
- Using more than 2 ES-LS-BSUB-12-CPR on the same amplifier channel is not recommended.

5. Wiring Recommendations

- Burial-rated wire is recommended for all installations.
- For Maximum Performance:
 - o For wire runs up to 100 feet, 16ga or larger wire is recommended.
 - o For wire runs up to 200 feet, 14ga wire or larger is recommended.
 - o For wire runs up to 300 feet, 12ga wire or larger is recommended.

Smaller wire gauges may be used, but overall performance will be reduced depending on the wire gauge used. The chart below shows the wire length and the amount of signal loss that you can expect on a typical run.

Wire Gauge	8Ω Speaker			4Ω Speaker (or two 8Ω speakers in parallel)		
	11% Power Loss	21% Power Loss	37% Power Loss	11% Power Loss	21% Power Loss	37% Power Loss
12	291ft.	622 ft.	1352 ft.	143 ft.	311 ft.	680 ft.
14	189 ft.	403 ft.	876 ft.	92 ft.	199 ft.	437 ft.
16	117 ft.	255 ft.	553 ft.	61 ft.	128 ft.	278 ft.
18	87 ft.	194 ft.	405 ft.	41 ft.	92 ft.	201 ft.

6. Choosing the Installation Location

There are several factors to consider when choosing the final installation location:

- **Sound Coverage**

The low frequencies added by the ES-LS-BSUB-12-CPR will greatly enhance the overall sound quality of any outdoor loudspeaker installation. As a guideline, each subwoofer will provide coverage for between 2,000 and 3,000 square feet.

Because the sound will radiate in all directions in an approximate 30-foot radius, consider placing a subwoofer every 60 feet for maximum coverage. Placing a subwoofer near a wall will increase the bass response.

- **Aesthetic Placement**

The final appearance of the sub leaves a very small footprint, but the sub should be located so that the canopy does not obstruct views or yard ornaments.

- **Safe Environment**

The subwoofer is designed to stand up to the harshest conditions and continue to perform, but there are conditions that could shorten its life.

Make sure to minimize the chance of water being sprayed directly into the weatherized canopy, and avoid installing the sub in an area that continuously floods during wet weather or retains standing water.

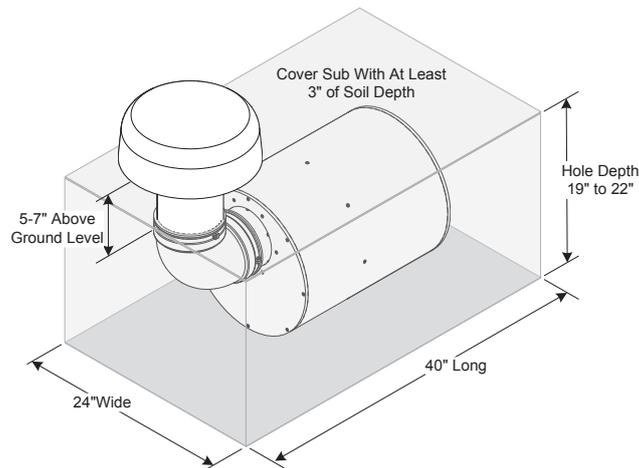
Avoid installing the subwoofer in areas where the canopy could be struck by cars, lawn care equipment, recreation equipment, or people walking in the yard.

- **Ease of Installation and Wiring**

The final installation location must be accessible. Make sure that wire can be routed to the location from the amplifier, and that no obstructions will prevent installation of the canopy.

Note: We recommend that an outdoor speaker system be fully tested with speakers located at their proposed locations before any wiring trenches are dug or burial conduit is installed. This allows for easy relocation of any speaker/subwoofer to achieve optimum sound levels throughout the listening area.

7. Installation



7.1 Hole Dimensions

The subwoofer cabinet is approximately 16" in diameter and 32" long with the port tube attached. Dig a hole that is at least 24" wide and 40" long so that it is about 4 inches larger than the sub in each direction to allow for the sub to be adjusted side to side. Dig down 19" to 22" to allow for adjustment of the port tube height.

The port tube height is adjustable by rotating the subwoofer in the hole. Provide at least 3" of soil on top of the subwoofer cabinet, and at least 5" between the bottom of the canopy and the soil surface after installation. This will allow for the best sound and will help prevent water buildup in the enclosure.

Note: In areas with a high clay-content in the soil, we recommend using a 1" layer of pea gravel underneath the subwoofer to allow for easier drainage.

7.2 Assembly and Setup

1. Insert the Canopy into one end of the port elbow until it is fully seated. Tighten the compression clamp completely.
2. Assemble the subwoofer by fitting the open end of the port elbow onto the opening of the subwoofer. Make sure the subwoofer port opening and elbow are free of soil so that a proper seal can be made with the compression clamp. The elbow must be fully seated over the subwoofer port opening. **Do not tighten the compression clamp yet.**
3. The height of the canopy can now be adjusted by rotating the subwoofer cabinet within the hole. When the canopy is at the desired height, tighten the compression clamp completely to attach the port elbow to the subwoofer cabinet.
4. Using the included silicone-filled wire nuts, complete the wiring connections. Match the subwoofer's Red lead to the "+" input and the subwoofer's Black lead to the "-" input of your wiring.

Note: The silicone-filled weatherized wire nuts included with this kit are specifically designed to be used for direct burial installations. An equivalent connector must be used for any wiring in the system that could be exposed to water or weather. Damage to loudspeakers or connected equipment due to inadequate installation will not be covered under warranty.

5. Before filling in the hole for the subwoofer or any wiring trenches, test the complete speaker installation, including the subwoofer and any other speakers.

Fill the remainder of the subwoofer hole with the soil removed earlier. Pack as much soil around the sides and top of the subwoofer as possible. Make sure the port tube remains fully perpendicular to the surrounding soil during this process. After the subwoofer is fully covered, there should be at least 3 inches of soil covering the main assembly.

8. Specifications

Woofers	12" High Compliance Mica-filled Polypropylene Cone with Stitched NBR surround
Voice Coil	2.5" High Power Handling, 4-layer voice coil on Fiberglass Bobbin
Minimum Impedance	8Ω
Frequency Response (- 3dB)	28-100 Hz
Frequency Response (- 6dB)	25-115 Hz
Power Handling	500w RMS, 1000W Peak
Cabinet Construction	5/8" HDPE

9. Troubleshooting

Episode® subwoofers are designed to function trouble-free. Most problems that occur are due to simple issues. If you have trouble, please follow the troubleshooting instructions below. If you have a different problem, or if the sound problem persists, contact Episode® Customer Service at 1.866.838.5052

9.1 No Sound

- Verify that there is audio coming from the source selected. Select another source if necessary.
- Ensure that the audio source is turned on and connected properly.

10. Warranty



5-Year Limited Warranty

5-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

11. Contacting Technical Support

Phone: (866) 838-5052

Email: Techsupport@snapav.com