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1 Safety

1.1 Suspension

Warning!
Suspending any object is potentially dangerous and should only be attempted by individuals who have a thorough knowledge of the techniques and regulations of suspending objects overhead. Electro-Voice strongly recommends all loudspeakers be suspended taking into account all current national, federal, state, and local laws and regulations. It is the responsibility of the installer to ensure all loudspeakers are safely installed in accordance with all such requirements. When loudspeakers are suspended, Electro-Voice strongly recommends the system be inspected at least once per year or as laws and regulations require. If any sign of weakness or damage is detected, remedial action should be taken immediately. The user is responsible for making sure the wall, ceiling, or structure is capable of supporting all objects suspended overhead. Any hardware used to suspend a loudspeaker not associated with Electro-Voice is the responsibility of others.

Safety point
As an added safety measure, it is suggested the user install an extra suspension point back to the building structural supports. This safety point should have as little slack as possible (less than 1-inch is preferable).

1.2 Notices

Old electrical and electronic appliances
Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally compatible recycling (in accordance with the European Waste Electrical and Electronic Equipment Directive).
To dispose of old electrical or electronic devices, you should use the return and collection systems put in place in the country concerned.

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2 \section*{Short information}

The following table lists products in a family, with CTN (Commercial Type Number) and identifying product name DESCRIPTION.

<table>
<thead>
<tr>
<th>CTN</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVID-S10.1DB</td>
<td>Cabinet subwoofer 2x10&quot; black</td>
</tr>
<tr>
<td>EVID-S10.1DW</td>
<td>Cabinet subwoofer 2x10&quot; white</td>
</tr>
<tr>
<td>UB-10DB</td>
<td>U-bracket for 10&quot; subwoofer black</td>
</tr>
<tr>
<td>UB-10DW</td>
<td>U-bracket for 10&quot; subwoofer white</td>
</tr>
<tr>
<td>IP-10D-TB</td>
<td>Transformer input 10&quot; subwoofer bk</td>
</tr>
<tr>
<td>IP-10D-TW</td>
<td>Transformer input 10&quot; subwoofer wh</td>
</tr>
<tr>
<td>IP-10D-CB</td>
<td>Crossover input 10&quot; subwoofer bk</td>
</tr>
<tr>
<td>IP-10D-CW</td>
<td>Crossover input 10&quot; subwoofer wh</td>
</tr>
</tbody>
</table>
3 Introduction

The EVID-S10.1D subwoofer, from Electro-Voice, is a compact, high-performance, dual woofer loudspeaker with outstanding performance for the most demanding professional and commercial sound applications. Designed and engineered for use in background and foreground music, and sound reinforcement applications, the EVID-S10.1D subwoofer is the ideal solution for indoor and outdoor applications, such as restaurants, bars, patios, retail, fitness clubs, hospitality, theme parks, leisure venues, and others. Ease of installation, and flexible options for mounting solutions and weather resistance, the EVID-S10.1D subwoofer is the perfect solution for a wide variety of surface mount applications.

The EVID-S10.1D subwoofer has been carefully engineered to resist outdoor environments, without compromising on performance for indoor applications. The subwoofer is IP54 rated, and its weather-proofing is complemented with exceptional cabinet and grille resistance against sun, salt and moisture. For the toughest weather conditions, the IP rating of the EVID-S10.1D subwoofer can be upgraded to IP65, using the included port plug accessory.

Read through this manual to familiarize yourself with the safety information, features, and applications before you use these products.

3.1 System features

- Two 10 inch high-excursion woofers
- Carefully engineered for outdoor environments (IP54 and IP65), without compromising performance
- 400 W power handling provides for 120 dB maximum SPL (126 dB peak)
- 70/100 V transformer input panel accessory available
- Crossover input panel accessory available
3.2 Packing list

<table>
<thead>
<tr>
<th></th>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>Subwoofer</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>Mounting point covers</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>Logo (spare)</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>Allen wrench</td>
</tr>
<tr>
<td>E</td>
<td>1</td>
<td>Weather input cover</td>
</tr>
<tr>
<td>F</td>
<td>8</td>
<td>Screws for weather input cover</td>
</tr>
<tr>
<td>G</td>
<td>2</td>
<td>IP65 port covers</td>
</tr>
<tr>
<td>H</td>
<td>12</td>
<td>IP65 port cover screws</td>
</tr>
<tr>
<td>I</td>
<td>1</td>
<td>Installation manual</td>
</tr>
</tbody>
</table>

Table 3.1: Components list

Figure 3.1: Components
3.3 Product information

Figure 3.2: Product information (subwoofer on the right is shown upside down)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Grille</td>
</tr>
<tr>
<td>B</td>
<td>U-bracket mounting points</td>
</tr>
<tr>
<td>C</td>
<td>M8 flying points</td>
</tr>
<tr>
<td>D</td>
<td>M8 safety point</td>
</tr>
<tr>
<td>E</td>
<td>Input panel</td>
</tr>
<tr>
<td>F</td>
<td>Subwoofer feet</td>
</tr>
<tr>
<td>G</td>
<td>Weather input cover</td>
</tr>
</tbody>
</table>

Table 3.2: Product information
4 Installation

For safety, ensure the mounting surface supports more than the weight of the speaker. Use only industry-accepted fasteners and mounting methods when mounting the loudspeaker. Consult an expert if you are unsure.

Caution!
It is the installer's responsibility to determine and use the proper mounting hardware for the wall construction type.
Disregarding this caution could result in damage to the product and personal injuries may occur.

Safety point
As an added safety measure, it is suggested the user install an extra suspension point back to the building structural supports. This safety point should have as little slack as possible (less than 1-inch is preferable).

4.1 Suspending the subwoofer

To suspend the subwoofer, do the following:
1. Turn the subwoofer upside down.
2. Remove the two subwoofer feet with the supplied Allen wrench.
3. Attach the mounting point covers on the U-bracket mounting points.
4. Rotate the logo by replacing it, as shown in the Replacing the logo section.
5. Install four 8-mm rated forged eyebolts (not included) into the threaded fly points.

6. Install an 8-mm rated forged eyebolt (not included) into the safety point.

7. Suspend the subwoofer from the eyebolts using rated fittings and steel cable.

8. Secure the subwoofer from the safety eyebolt using rated fittings and steel cable.

See also
- Replacing the logo, page 10

4.2 Replacing the logo

An additional logo is included, vertical installation is shown.

To replace the logo, do the following:
1. Remove the existing logo.
2. Clean the surface with alcohol.
3. Remove the paper backing.
4. Insert the logo.

*Press firmly to ensure the logo is applied.*

4.3 Installing the IP65 port covers

To install the IP65 port covers, do the following:

**Caution!**

Ensure you securely tighten the screws for the IP65 port cover to prevent water leaks. If the IP65 port cover is not properly installed, you may cause damage to the subwoofer.

1. Remove the grille.

2. Install the IP65 port cover.

   *Repeat step this step to install the second IP65 port cover.*

3. Reinstall the grille.
4.4 Installing the U-bracket - optional accessory

To install the U-bracket, do the following:

1. Install the four screws (provided) into the U-bracket mounting points.

2. Install an 8-mm rated forged eyebolt (not included) into the safety point.

3. Secure the subwoofer from the safety eyebolt using a rated fittings and steel cable.

Suspending the subwoofer in a down-fire position using the U-bracket

To suspend the subwoofer in a horizontal down-fire position, do the following:

1. Install two 8-mm rated forged eyebolts using lock washers (eyebolts and lock washers not included) into the fly points on the U-bracket.

2. Install an 8-mm rated forged eyebolt (not included) into the safety point.

3. Suspend the subwoofer from the eyebolts using rated fittings and steel cable.

4. Secure the subwoofer from the safety eyebolt using a rated fittings and steel cable.

4.5 Installing the transformer input panel - optional accessory

To install the transformer input panel, do the following:
1. Remove the **standard input panel**.

2. Disconnect the **standard input panel**.

3. Connect the **transformer input panel**.

4. Install the **transformer input panel**.

5. Install the **weather cover**, if applicable.
4.6 Installing the crossover input panel - optional accessory

To install the crossover input panel, do the following:

1. Remove the standard input panel.

2. Disconnect the standard input panel.

3. Connect the crossover input panel.

4. Install the crossover input panel.

5. Install the weather cover, if applicable.
5  Wiring

5.1  Standard input panel

5.1.1  Mono operation

Caution!
For mono operation only use either the first two pins or the last two pins of the FR/IN connector. Do not wire the amplifier to all four pins. May cause damage to the amplifier if connected improperly.

The amplifier, the subwoofer, and the speakers are wired for MONO operation. It is highly advisable to support the unit while these connections are being made. Connect all wires to the speaker at the back terminal plate observing proper polarity of the connections. After all connections are made test the complete system operation.

A: Full-range parallel out
B: STEREO/MONO switch set to mono.
5.1.2 **Stereo operation**

The amplifier, the subwoofer, and the speakers are wired for STEREO operation. It is highly advisable to support the unit while these connections are being made. Connect all wires to the speaker at the back terminal plate observing proper polarity of the connections. After all connections are made test the complete system operation.

A: Full-range parallel out
B: STEREO/MONO switch set to stereo.
5.2 **Transformer input panel - optional accessory**

5.2.1 **Mono operation**

---

**Caution!**

For mono operation only use either the first two pins or the last two pins of the FR/IN connector. Do not wire the amplifier to all four pins. May cause damage to the amplifier if connected improperly.

---

The amplifier, the subwoofer, and the speakers are wired for MONO operation. It is highly advisable to support the unit while these connections are being made. Connect all wires to the speaker at the back terminal plate observing proper polarity of the connections. After all connections are made test the complete system operation. The speakers must be set to 70V/100V mode.

**A:** STEREO/MONO switch set to mono.

---

**Figure 5.1: Mono configuration 1**
A: STEREO/MONO switch set to mono.

Figure 5.2: Mono configuration 2
5.2.2 Stereo operation

The amplifier, the subwoofer, and the speakers are wired for STEREO operation. It is highly advisable to support the unit while these connections are being made. Connect all wires to the speaker at the back terminal plate observing proper polarity of the connections. After all connections are made test the complete system operation. The speakers must be set to 70V/100V mode.

A: STEREO/MONO switch set to stereo.
5.3 Crossover input panel - optional accessory

5.3.1 Mono operation

**Caution!**

For mono operation only use either the first two pins or the last two pins of the FR/IN connector. Do not wire the amplifier to all four pins. May cause damage to the amplifier if connected improperly.

The amplifier, the subwoofer, and the speakers are wired for MONO operation. It is highly advisable to support the unit while these connections are being made. Connect all wires to the speaker at the back terminal plate observing proper polarity of the connections. After all connections are made test the complete system operation.

The option shown is using 8 ohm speakers.

A: STEREO/MONO switch set to mono.
B: HI-PASS 4 OHM/8 OHM switch set to 8 ohm.
5.3.2 Stereo operation

The amplifier, the subwoofer, and the speakers are wired for STEREO operation. It is highly advisable to support the unit while these connections are being made. Connect all wires to the speaker at the back terminal plate observing proper polarity of the connections. After all connections are made test the complete system operation. Both options shown are using 8 ohm speakers.

A: STEREO/MONO switch set to stereo.
B: HI-PASS 4 OHM/8 OHM switch set to 8 ohm.

Figure 5.3: Stereo configuration 1
A: STEREO/MONO switch set to stereo.
B: HI-PASS 4 OHM/8 OHM switch set to 4 ohm.

Figure 5.4: Stereo configuration 2
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Sound</td>
<td>Amplifier</td>
<td>Connect a known working test speaker to the amplifier outputs. If there is no sound, check all electronics are on, the signal routing is correct, the source is active; the volume is turned up, and so on. Correct/Repair/Replace as necessary. If there is sound, the problem is in the wiring.</td>
</tr>
<tr>
<td>Wiring</td>
<td>Verify you have connected the correct wire pairs to the amplifier. Play something at low level through the amplifier (for example, from a CD player or tuner). Connect the test speaker in parallel with the malfunctioning line. If the sound has gone or is very weak, the line has a short in it (possibly a severe scrape, pinch, or staple puncture). If the sound level is normal the wire is open (possibly a cut wire or missed connection). Using the test speaker, move down the line and test each connection/junction until you find the problem and correct it. Observe proper polarity. Verify you have the inputs and outputs connected to the correct wires. If the subwoofer input panel is not correctly wired, there will be little or no sound. Observe proper polarity.</td>
<td></td>
</tr>
<tr>
<td>Poor Low-Frequency Response</td>
<td>Speakers Wired Out-of-Polarity</td>
<td>When two speakers are connected out of polarity (out of phase), the low frequencies will cancel each other acoustically. Carefully observe the wire markings or tracers on your speaker wires. Verify the amplifier (+) terminal is connected to the red speaker terminals and the amplifier (-) terminal is connected to the black speaker terminals. Using a test speaker as described above, verify all amplifier and speaker wires are connected to their proper terminals with the correct polarity. Reversing just one set of amplifier wires can cut out all bass output from the subwoofer.</td>
</tr>
<tr>
<td>Intermittent Output such as, Crackling or Distortion</td>
<td>Faulty Connection</td>
<td>Check all connections at amplifier and speakers to ensure they are clean and tight. If the problem persists, it may be in the amplifier or wiring. See other actions above.</td>
</tr>
<tr>
<td>Constant Noise such as Buzzing, Hissing, Humming</td>
<td>Defective Amplifier or other Electronic Device</td>
<td>If the noise is present but no program material is playing, the likely cause is the signal chain in the electronics. Evaluate each component as necessary to isolate the problem.</td>
</tr>
<tr>
<td></td>
<td>Poor System Grounding or Ground Loop</td>
<td>Check and correct the system grounding, as required.</td>
</tr>
</tbody>
</table>

If these suggestions do not solve your problem, contact your nearest Electro-Voice dealer or Electro-Voice distributor.
### Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency response (-10 dB)</td>
<td>33 Hz – 500 Hz(^1)</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>94 dB(^2)</td>
</tr>
<tr>
<td>Max. SPL (Calculated)</td>
<td>120 dB (126 dB Peak)</td>
</tr>
<tr>
<td>Power handling</td>
<td>400 W (1600 W Peak) Continuous Pink Noise (100 hours)</td>
</tr>
<tr>
<td>Low Z</td>
<td>Yes</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>(2) 8 Ω (stereo mode); (1) 4 Ω (mono mode)</td>
</tr>
<tr>
<td>Recommended High-Pass</td>
<td>40 Hz (24 dB/octave)</td>
</tr>
<tr>
<td>Input transformer (70 V/100 V)</td>
<td>Optional accessory</td>
</tr>
<tr>
<td>Transformer taps</td>
<td>Optional accessory</td>
</tr>
<tr>
<td>LF transducer</td>
<td>Two 10 inch (254 mm)</td>
</tr>
<tr>
<td>Connectors</td>
<td>Two removable locking 4-pin connector (Euroblock) – Input and output.</td>
</tr>
<tr>
<td></td>
<td>Max. wire size 12 AWG (2.5 mm).</td>
</tr>
<tr>
<td>Environmental</td>
<td>IP-54 (per IEC-60529); IP-65 with port covers</td>
</tr>
<tr>
<td>Color</td>
<td>Black (RAL 9004) or white (RAL 9003)</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>356 mm x 651 mm x 491 mm (14.0 in x 25.6 in x 19.3 in)(^3)</td>
</tr>
<tr>
<td>Net weight</td>
<td>17.9 kg (39.5 lb)(^3)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>21 kg (46.3 lb)</td>
</tr>
<tr>
<td>Included hardware</td>
<td>(2) Subwoofer feet, Allen wrench, weather input cover, (8) screws for the weather input cover, (2) IP65 port covers, (12) IP65 port cover screws</td>
</tr>
<tr>
<td>Packaged quantity</td>
<td>1</td>
</tr>
</tbody>
</table>

\(^1\)Half space (wall mounting).

\(^2\)Half space (on wall) averaged 50 Hz – 150 Hz, 1 W.

\(^3\)Without U-Bracket.
7.1 Dimensions

Figure 7.1: Frequency response and impedance

7.2 Frequency response and impedance

Figure 7.1: Frequency response and impedance
Figure 7.2: Frequency response and impedance with cross-over
8 U-bracket dimensions - optional accessory

The U-bracket dimensions are not to scale and are for reference only.