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## Velleman CA110

# Velleman CA110 Mono Plug with Strain Relief, 1/8" - Instruction Manual

Model: CA110

## INTRODUCTION

This instruction manual provides essential information for the proper installation and use of the Velleman CA110 Mono Plug. The CA110 is a 1/8-inch (3.5mm) mono audio connector designed for solder connections, featuring an integrated strain relief for enhanced cable durability. This product is suitable for various audio applications requiring a reliable mono connection.

## PRODUCT OVERVIEW

The Velleman CA110 is a robust mono plug designed for custom audio cable assembly or repair. Its construction includes a durable metal jack and a protective boot with strain relief.

- **Type:** Mono
- **Boot:** Molded plastic for strain relief
- **Cable Compatibility:** Designed for cables up to 0.16 inch (4mm) diameter
- **Connection:** Solder connections



A close-up view of the Velleman CA110 1/8-inch mono plug. It features a black ribbed strain relief boot, a blue hexagonal plastic housing, and a silver-colored metal barrel with a gold-tipped mono jack.

## SETUP AND INSTALLATION

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The Velleman CA110 Mono Plug requires soldering for proper connection to an audio cable. Follow these steps for installation:

1. **Prepare the Cable:** Carefully strip the outer jacket of your audio cable to expose the inner conductor(s) and shield. For a mono connection, you will typically have one signal conductor and a shield (ground).
2. **Thread the Boot:** Slide the black strain relief boot and the blue hexagonal housing onto the cable **before** making any solder connections. This is crucial as they cannot be added after soldering.
3. **Tin the Wires:** Apply a small amount of solder to the exposed conductor(s) and shield of your cable. This process, known as tinning, ensures a strong electrical connection.
4. **Solder Connections:**
  - Solder the signal conductor to the tip terminal of the mono plug.
  - Solder the shield (ground) conductor to the sleeve terminal of the mono plug.

Ensure clean solder joints without any short circuits between the terminals.

5. **Assemble the Plug:** Once soldering is complete and the joints have cooled, slide the blue hexagonal housing forward over the metal barrel of the plug until it securely covers the solder connections. Then, slide the black strain relief boot over the cable and into the back of the blue housing to provide strain relief.
6. **Test Connection:** Before final use, test the cable with an audio device to ensure proper functionality and sound transmission.

## OPERATING INSTRUCTIONS

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Once the Velleman CA110 Mono Plug is correctly installed on your audio cable, its operation is straightforward:

1. **Connect to Device:** Insert the 1/8-inch mono plug into the corresponding 1/8-inch (3.5mm) mono jack on your audio equipment (e.g., music player, amplifier, speaker, headphone jack).
2. **Ensure Secure Fit:** Push the plug firmly into the jack until it is fully seated. A loose connection can result in intermittent audio or signal loss.
3. **Disconnecting:** To disconnect, grasp the body of the plug (the blue hexagonal housing) and pull it straight out from the jack. Avoid pulling on the cable itself, as this can damage the internal connections or the cable's strain relief.

## MAINTENANCE

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Proper maintenance ensures the longevity and reliable performance of your Velleman CA110 Mono Plug:

- **Cleaning:** Periodically wipe the metal contact surfaces of the plug with a clean, dry cloth to remove dust or grime. For stubborn dirt, a cotton swab lightly dampened with isopropyl alcohol can be used, ensuring the plug is completely dry before use.
- **Inspection:** Regularly inspect the plug for any signs of wear, such as bent tips, loose connections, or damage to the strain relief boot.
- **Storage:** Store cables equipped with the plug in a clean, dry environment, away from extreme

temperatures and direct sunlight. Avoid tightly coiling cables, which can put stress on the plug connections.

## TROUBLESHOOTING

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If you experience issues with your Velleman CA110 Mono Plug, consider the following troubleshooting steps:

- **No Audio or Intermittent Sound:**

- Ensure the plug is fully inserted into the audio jack.
- Check for any visible damage to the plug's tip or sleeve.
- Inspect the solder connections for any breaks or cold solder joints. Re-solder if necessary.
- Test the cable with another known working device or cable to isolate the problem.

- **Humming or Buzzing Noise:**

- This often indicates a poor ground connection. Re-check the solder joint for the shield (ground) wire.
- Ensure the cable's shielding is intact and properly connected to the plug's sleeve.

- **Loose Connection:**

- If the plug feels loose in the jack, the jack itself might be worn. Try the plug in a different device.
- Ensure the strain relief boot is properly seated to prevent internal wire movement.

## SPECIFICATIONS

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<b>Item Model Number</b>	CA110
<b>Type</b>	Mono Plug
<b>Connector Size</b>	1/8 inch (3.5mm)
<b>Connection Type</b>	Solder
<b>Cable Diameter Compatibility</b>	Up to 0.16 inch (4mm)
<b>Features</b>	Molded plastic boot, Strain relief
<b>Color</b>	Black (boot), Blue (housing)
<b>Manufacturer</b>	Velleman, Inc

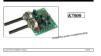
## WARRANTY AND SUPPORT

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For warranty information and technical support regarding your Velleman CA110 Mono Plug, please refer to the official Velleman, Inc. website or contact their customer service directly. Warranty terms and conditions may vary based on region and purchase location.

**Velleman, Inc. Contact Information:**

## Related Documents - CA110

	<p><a href="#"><u>Velleman K5201 Light Computer - Illustrated Assembly Manual</u></a></p> <p>Detailed illustrated assembly manual for the Velleman K5201 Light Computer kit. Learn how to build and use this electronic project featuring 16 patterns and 7 outputs for creating unique light shows.</p>
	<p><a href="#"><u>Velleman MK151 Electronic Kit Assembly Instructions</u></a></p> <p>Comprehensive assembly guide for the Velleman MK151 electronic kit, detailing component identification, step-by-step construction, and important environmental disposal information.</p>
	<p><a href="#"><u>Velleman K5201 Light Computer Illustrated Assembly Manual</u></a></p> <p>Detailed illustrated assembly manual for the Velleman K5201 Light Computer kit, including features, specifications, component lists, assembly instructions, hook-up diagrams, and safety information.</p>
	<p><a href="#"><u>Velleman K4102 Guitar Preamplifier with Headphone Output Assembly Manual</u></a></p> <p>Assembly instructions, specifications, and schematic for the Velleman K4102 Guitar Preamplifier with Headphone Output DIY kit. Learn how to build and use this device for practicing guitar without disturbing others.</p>
	<p><a href="#"><u>Velleman K4006 Power Supply Assembly Manual</u></a></p> <p>Illustrated assembly manual for the Velleman K4006 power supply, compatible with K4004B and K4005B models. Includes tools, assembly hints, construction steps, connection diagrams, and PCB layout.</p>
	<p><a href="#"><u>Velleman K7000 Signal Tracer/Injector Kit - Illustrated Assembly Manual</u></a></p> <p>Illustrated assembly manual for the Velleman K7000 Signal Tracer/Injector Kit. Provides step-by-step instructions, component lists, diagrams, and usage guidance for building and troubleshooting audio circuits.</p>

Documents - Velleman – CA110

no relevant documents