

## JBL C521P

# JBL Selenium C521P Passive Speaker System User Manual

Model: C521P | Brand: JBL Selenium

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your JBL Selenium C521P passive speaker system. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

## 2. SAFETY INFORMATION

Always observe the following safety precautions:

- **Power Handling:** Do not exceed the rated power handling of 40W RMS (80W Musical Program) to prevent damage to the speakers.
- **Impedance Matching:** Ensure your amplifier or receiver is compatible with an 8 Ohm impedance load. Mismatched impedance can cause damage to both the speakers and the amplifier.
- **Ventilation:** Ensure adequate ventilation around the speakers, especially if installed in an enclosed space, to prevent overheating.
- **Placement:** Avoid placing speakers near heat sources, direct sunlight, or in excessively humid or dusty environments.
- **Wiring:** Always turn off your amplifier/receiver before making any connections. Ensure correct polarity (+ to + and - to -) when connecting speaker wires.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Avoid liquid cleaners or aerosols.
- **Service:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the speakers yourself.

## 3. PACKAGE CONTENTS

The JBL Selenium C521P passive speaker system typically includes:

- Two (2) JBL Selenium C521P Passive Speakers
- Integrated Mounting Brackets (pre-attached)
- This User Manual

*Note: Speaker wire is typically sold separately and is not included.*

## 4. PRODUCT OVERVIEW

The JBL Selenium C521P is a compact, two-way passive speaker designed for ambient sound reinforcement. It features a robust construction and a design optimized for easy integration into various environments.

### 4.1 Components

- **Woofer:** A 5-inch (127mm) polypropylene cone woofer provides clear mid-range and bass frequencies.
- **Tweeter:** A 0.75-inch (19mm) PEI diaphragm tweeter delivers crisp high frequencies.
- **Cabinet:** Constructed from durable ABS material with a bass-reflex design for enhanced low-frequency response.
- **Front Grille:** An aluminum front grille protects the speaker components.
- **Terminal Connectors:** Spring-loaded terminals on the rear panel for secure speaker wire connections.
- **Mounting Bracket:** Integrated bracket for flexible installation options.



*Figure 1: Rear view of two JBL Selenium C521P speakers. This image displays the rear panel of two JBL Selenium C521P speakers. Each speaker features a pair of spring-loaded terminal connectors for audio input, typically red for positive and black for negative. The integrated mounting brackets are visible on the sides, allowing for flexible installation. A product label with model number C521P, power handling, and impedance is affixed to the back of each unit.*

## 5. SETUP

### 5.1 Speaker Placement

Consider the following when positioning your speakers:

- **Stereo Imaging:** For optimal stereo sound, place the speakers equidistant from your primary listening position and

spaced appropriately apart.

- **Mounting:** The integrated brackets allow for shelf mounting or wall mounting. Ensure the mounting surface is sturdy enough to support the speaker's weight (approximately 2.15 kg per speaker).
- **Room Acoustics:** Experiment with placement to find the best sound balance for your room. Avoid placing speakers directly in corners, which can overemphasize bass.

### 5.2 Wiring Connections

Before making any connections, ensure your amplifier/receiver is turned OFF.

1. **Prepare Speaker Wire:** Strip approximately 1/2 inch (12mm) of insulation from the ends of your speaker wires. Twist the bare strands tightly.
2. **Connect to Speaker:** Press down on the colored tab of the spring-loaded terminal on the back of the C521P speaker. Insert the positive (+) wire (often marked with a stripe or color) into the red terminal and the negative (-) wire into the black terminal. Release the tab to secure the wire.
3. **Connect to Amplifier:** Connect the other end of the speaker wire to the corresponding positive (+) and negative (-) speaker output terminals on your amplifier or receiver. Ensure correct polarity for both speakers.
4. **Check Connections:** Double-check all connections to ensure they are secure and that no stray wire strands are touching, which could cause a short circuit.

*Important: Always match the impedance. The C521P speakers have an impedance of 8 Ohms. Refer to your amplifier's manual for compatible speaker impedance ratings.*

## 6. OPERATING

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Once the speakers are properly connected to your amplifier/receiver:

1. **Power On:** Turn on your amplifier/receiver.
2. **Volume Control:** Start with the volume at a low level and gradually increase it to your desired listening level.
3. **Source Selection:** Select the audio source on your amplifier/receiver.
4. **Enjoy:** Your JBL Selenium C521P speakers are now ready for use.

*Avoid playing audio at excessively high volumes for extended periods, as this can cause hearing damage and potentially damage the speakers.*

## 7. MAINTENANCE

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To ensure the longevity and optimal performance of your speakers:

- **Cleaning:** Use a soft, dry, lint-free cloth to wipe the cabinet and grille. Do not use abrasive cleaners, waxes, or solvents.
- **Dust:** Regularly dust the speakers to prevent accumulation, especially on the grille.
- **Environment:** Keep speakers away from extreme temperatures, humidity, and direct sunlight.
- **Grille Care:** The aluminum grille is designed for protection. Avoid pressing on it or allowing objects to impact it, which could dent or damage the speaker components underneath.

## 8. TROUBLESHOOTING

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If you encounter issues with your JBL Selenium C521P speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound from one or both speakers.	Loose or incorrect wiring. Amplifier/receiver off or incorrect source selected. Speaker damaged.	Check all speaker wire connections for proper polarity and secure fit. Ensure amplifier is on and correct input source is selected. Test with another speaker or amplifier if possible.
Distorted sound.	Volume too high. Amplifier clipping. Incorrect impedance. Damaged speaker.	Reduce volume. Ensure amplifier is not overdriven. Verify amplifier impedance compatibility. Inspect speaker for visible damage.
Weak or unbalanced sound.	Incorrect balance settings on amplifier. One speaker wired out of phase.	Check amplifier balance controls. Verify speaker wire polarity (+ to + and - to -) for both speakers.
Humming or buzzing noise.	Ground loop. Interference from other electronics. Loose connections.	Ensure all audio components are plugged into the same power outlet or power strip. Separate audio cables from power cables. Check all connections.

If the problem persists after trying these solutions, contact qualified service personnel.

## 9. SPECIFICATIONS

Technical specifications for the JBL Selenium C521P Passive Speaker System:

Feature	Detail
Model	C521P
Brand	JBL Selenium
Speaker Type	2-way Passive Speaker
RMS Power Handling	40W
Musical Program Power	80W
Impedance	8 Ohms
Frequency Response (-10 dB)	95 Hz - 20,000 Hz
Woofer Diameter	5 inches (127mm)
Woofer Cone Material	Polypropylene
Woofer Surround Material	Nitrile Rubber
Tweeter Diameter	0.75 inches (19mm)
Tweeter Diaphragm Material	PEI
Cabinet Type	Bass Reflex
Cabinet Material	ABS
Connections	Spring-loaded Terminals

Feature	Detail
Color	Black
Dimensions (Single Speaker L x H x D)	22 cm x 15 cm x 14 cm (approx.)
Weight (Pair)	4.3 kg
Mounting Type	Shelf Mount / Integrated Bracket
Connectivity Technology	Wired
Compatible Devices	Smartphone, Tablet, Laptop, Desktop (via amplifier/receiver)

## 10. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official JBL website or contact your authorized JBL dealer. Keep your purchase receipt as proof of purchase for warranty claims.

*Note: Specific warranty terms may vary by region.*