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› Skar Audio SPX-65C 6.5-inch 2-Way Component Speaker System Instruction Manual

## Skar Audio SPX-65C

# Skar Audio SPX-65C 6.5-inch 2-Way Component Speaker System Instruction Manual

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your Skar Audio SPX-65C 6.5-inch 2-Way Component Speaker System. Please read this manual thoroughly before attempting installation or operation to ensure proper function and longevity of the product. This system is designed to deliver high-quality audio reproduction in a vehicle environment.

## 2. PACKAGE CONTENTS

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Verify that all items listed below are present in your product packaging:

- Two (2) Skar Audio SPX-65C 6.5-inch Mid-Bass Woofers
- Two (2) Skar Audio 1-inch Aluminum Dome Tweeters
- Two (2) External Crossover Networks
- Two (2) Speaker Grilles
- Mounting Accessories (screws, clips, wiring)
- User Manual (this document)



Image 1: Complete Skar Audio SPX-65C Component Speaker System including woofers, tweeters, crossover networks, and grilles.

### 3. SAFETY INFORMATION

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- Always disconnect the vehicle's battery negative terminal before beginning any electrical installation.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Avoid installing speakers in locations that obstruct vehicle operation or safety features.
- Wear appropriate safety gear, such as eye protection, during installation.
- If you are unsure about any part of the installation process, consult a professional car audio installer.
- Operating audio systems at excessively high volumes can cause permanent hearing damage.

### 4. SETUP AND INSTALLATION

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#### 4.1 Planning Your Installation

Before beginning, plan the placement of your woofers, tweeters, and crossover networks. Consider existing speaker locations, mounting depth requirements, and wiring paths. Ensure adequate space for the woofers (mounting depth: 2.64 inches) and tweeters.

#### 4.2 Woofer Installation

The SPX-65C woofers are designed for standard 6.5-inch openings. Ensure the mounting surface is rigid and

free from obstructions. Use the provided mounting screws to secure the woofers firmly.



Image 2: Front view of the Skar Audio SPX-65C 6.5-inch woofers, showing the PMI composite multi-layered cone and butyl rubber surround.



Image 3: Rear view of the Skar Audio SPX-65C 6.5-inch woofers, highlighting the robust magnet structure and speaker terminals.

### 4.3 Tweeter Installation

The 1-inch aluminum dome tweeters can be flush-mounted or surface-mounted using the included hardware. Choose a location that provides optimal sound imaging, typically at ear level or slightly above, and ensure a clear path for sound to the listener. Secure the tweeters using the appropriate mounting accessories.



Image 4: Skar Audio 1-inch aluminum dome tweeters, featuring a silk surround for clear high-frequency reproduction.

#### 4.4 Crossover Network Installation

The external crossover networks separate the audio signal into appropriate frequency ranges for the woofers and tweeters. Mount the crossovers in a dry, secure location, away from excessive heat or moisture. Ensure easy access for wiring connections.



Image 5: Skar Audio external crossover networks, showing input and output terminals for woofers and tweeters, along with a tweeter attenuation switch.

#### 4.5 Wiring Diagram

Proper wiring is critical for optimal performance and to prevent damage. Follow the steps below for each speaker channel:

1. Connect the audio output from your amplifier or head unit to the **INPUT** terminals on the crossover network. Observe correct polarity (+ to + and - to -).
2. Connect the **WOOFER** output terminals from the crossover network to the terminals on the 6.5-inch mid-bass woofer.
3. Connect the **TWEETER** output terminals from the crossover network to the terminals on the 1-inch tweeter.
4. Ensure all connections are secure and insulated.
5. The crossover network includes a tweeter attenuation switch (often labeled 'FLAT' and 'HIGH' or similar). This allows you to adjust the tweeter output level to match your listening preferences and vehicle acoustics. Start with the 'FLAT' setting and adjust as needed.

**Important:** Do not connect the woofers or tweeters directly to the amplifier without passing through the crossover network, as this can cause damage to the speakers.

## 5. OPERATING INSTRUCTIONS

After installation, reconnect the vehicle's battery. Before playing audio at high volumes, allow a break-in period for the speakers. During this period (typically 10-20 hours of normal use), operate the speakers at moderate volumes to allow the suspension components to loosen and achieve optimal performance. Gradually increase volume after the break-in period.

## 6. MAINTENANCE

- Regularly inspect speaker grilles for any damage or debris.
- Clean speaker cones and surrounds gently with a soft, dry cloth. Avoid using harsh chemicals or excessive moisture.
- Ensure all wiring connections remain secure over time.
- Protect speakers from direct sunlight and extreme temperatures when possible.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speakers	Loose wiring connection; Amplifier off or in protect mode; Incorrect crossover wiring.	Check all wiring connections at the amplifier, crossover, and speakers. Verify amplifier status. Re-check crossover input/output connections.
Distorted or unclear sound	Overpowering speakers; Incorrect amplifier gain settings; Loose mounting; Damaged speaker.	Reduce amplifier gain or head unit volume. Ensure speakers are securely mounted. Inspect speaker cones and surrounds for damage.
One speaker not working	Faulty wiring to that speaker; Damaged speaker; Crossover issue.	Check wiring specific to the non-working speaker, including connections at the crossover. Swap speakers (if possible) to isolate the issue.
Tweeter too bright or too quiet	Tweeter attenuation setting on crossover.	Adjust the tweeter attenuation switch on the crossover network to 'FLAT' or 'HIGH' as desired.

Problem	Possible Cause	Solution
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## 8. SPECIFICATIONS

Feature	Specification
Model Name	SPX-65C
Speaker Type	2-Way Component System
Woofer Diameter	6.5 Inches
Tweeter Diameter	1 Inch (Aluminum Dome with Silk Surround)
Peak Power Handling (Pair)	400 Watts
RMS Power Handling (Pair)	200 Watts
Impedance	4 Ohms
Frequency Response	42 Hz - 20,000 Hz
Sensitivity (1W/1M)	92 dB
Woofer Mounting Depth	2.64 Inches
Cone Material	PMI Composite Multi-Layered
Surround Material	Premium Butyl Rubber
Voice Coil	1.35-inch High Temperature
Product Dimensions (Box)	13"D x 17"W x 5"H
Item Weight	10 Pounds

## 9. WARRANTY INFORMATION

Skar Audio products are covered by a limited warranty. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Skar Audio website. Keep your proof of purchase for warranty claims.

## 10. SUPPORT

For further assistance, technical support, or inquiries regarding your Skar Audio SPX-65C Component Speaker System, please visit the official Skar Audio store or contact their customer service department.

Skar Audio Store: <https://www.amazon.com/stores/Skar+Audio/page/2F64AFF9-F5F8-4A8A-98CD-0B633FC93982>

