Precision Power P.65C3

Precision Power P.65C3 6.5-inch 3-Way Component Car Audio Speaker System User Manual

Model: P.65C3

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Precision Power P.65C3 6.5-inch 3-Way Power Class Series Component Car Audio Speaker System. Please read this manual thoroughly before attempting installation or operation to ensure proper function and longevity of your product. Retain this manual for future reference.

What's in the Box

Verify that all components are present and undamaged upon opening the package.

- 2 x 6.5-inch Woofers
- 2 x Tweeters
- 2 x Crossover Networks
- 1 x User Manual

Key Features

The Precision Power P.65C3 system is engineered for high-fidelity car audio reproduction.

- **6.5-inch 3-Way Component System:** Designed for comprehensive sound staging.
- **Power Handling:** 400 watts Peak / 250 watts RMS per set.
- **Natural Fiber Woofer and Midwoofer Cone:** Precision computer-designed for optimal sound.
- **Natural UV Resistant Butyl Rubber Inverted Surround:** Engineered to resist power compression and ensure durability.
- **Integrated Sealer Gasket:** For improved mounting and sound integrity.
- **Woofer Mounting Depth:** 2.65 inches.
- **Impedance:** 4 Ohms.
- **Frequency Response:** 20-40kHz.
- **Efficiency:** 94dB (1w/1m).

Setup & Installation

Proper installation is crucial for optimal performance and safety. If you are unsure about any step, consult a professional car audio installer.

Safety Precautions

- Disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate safety gear, including eye protection.
- 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.

Component Overview



Image: A single 6.5-inch woofer with a black grille and a light-colored cone. The woofer features a robust frame and a mesh grille for protection.



Image: Two Precision Power tweeters, one with a hexagonal housing and the other with a round housing, both featuring a mesh grille over a gold-colored element.

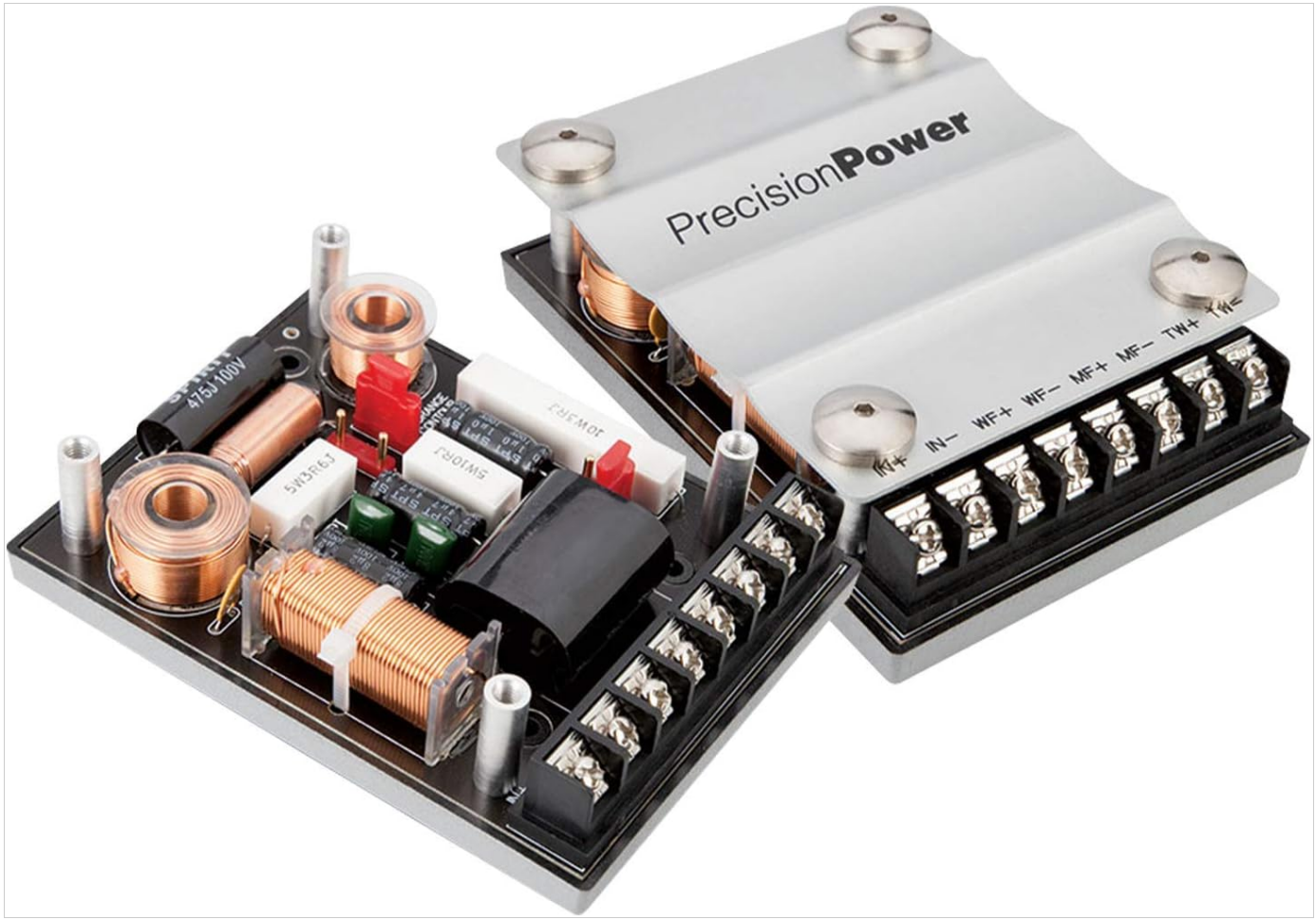


Image: Two Precision Power crossover networks. Each unit features a circuit board with various electronic components, including coils and capacitors, and screw terminals for speaker wire connections. One unit has a silver cover.

Wiring Connections

1. **Connect Amplifier Output to Crossover Input:** Use appropriate gauge speaker wire to connect the amplifier's output channels to the input terminals on the passive crossover network. Ensure correct polarity (+ to + and - to -).
2. **Connect Crossover Output to Woofer:** Connect the woofer output terminals from the crossover to the corresponding terminals on the 6.5-inch woofer.

3. **Connect Crossover Output to Tweeter:** Connect the tweeter output terminals from the crossover to the corresponding terminals on the tweeter.
4. **Connect Crossover Output to Midrange (if applicable):** If your system includes a dedicated midrange driver, connect it to the appropriate midrange output terminals on the crossover.

Refer to the wiring diagram provided with your crossover network for specific terminal identification. Incorrect wiring can damage the speakers or amplifier.

Mounting

- **Woofer:** The woofer requires a mounting depth of 2.65 inches. Ensure sufficient clearance behind the mounting surface. Use the provided screws to secure the woofer firmly.
- **Tweeter:** The tweeters feature an adjustable spin nut mounting system. Choose a location that provides optimal sound imaging, typically at ear level or slightly above.
- **Crossover Network:** Mount the crossover networks in a dry, secure location, away from excessive heat or moisture. Ensure they are easily accessible for any future adjustments.

Operating Instructions

Once installed, follow these steps for initial operation and sound adjustment.

1. **Initial Power-Up:** Reconnect the vehicle's battery. Turn on your car audio head unit.
2. **Volume Adjustment:** Start with the volume at a low level. Gradually increase the volume to a comfortable listening level.
3. **Crossover Settings:** The passive crossover networks are pre-configured for optimal performance with the P.65C3 components. Avoid tampering with the internal components of the crossover.
4. **Head Unit/Amplifier Settings:** Adjust the equalizer, bass, treble, and other audio settings on your head unit or amplifier to fine-tune the sound to your preference. Avoid excessive boosting of bass or treble, which can lead to distortion or speaker damage.

Maintenance

Regular maintenance helps ensure the longevity and performance of your speaker system.

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker grilles and surrounds. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect speaker cones and surrounds for any signs of damage or wear.
- **Environmental Protection:** While the butyl rubber surround is UV resistant, prolonged exposure to extreme temperatures or direct sunlight can affect speaker performance and lifespan.

Troubleshooting

If you encounter issues with your speaker system, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring connections Amplifier not powered on or in protect mode Head unit settings (e.g., fader/balance)	Check all speaker and amplifier connections for proper polarity and tightness. Verify amplifier power and status indicator. Consult amplifier manual. Adjust head unit fader/balance settings.

Problem	Possible Cause	Solution
Distorted or unclear sound	Volume too high, causing clipping Incorrect amplifier gain settings Damaged speaker cone or surround Poor quality audio source	Reduce volume. Avoid playing at excessively high levels. Adjust amplifier gain according to amplifier manual. Inspect speakers for physical damage. If damaged, replacement may be necessary. Try a different audio source (e.g., different song, radio station).
One speaker not working	Loose connection to that specific speaker or crossover Damaged speaker or crossover component	Check wiring for the affected speaker from the crossover to the speaker itself. If wiring is correct, the speaker or crossover may be faulty. Consult support.

Specifications

Detailed technical specifications for the Precision Power P.65C3 speaker system.



Image: A graphic displaying key specifications for the P.65C3 system, including size, power handling, frequency response, efficiency, and

woofer mounting depth.

Feature	Specification
Brand	Precision Power
Model Number	P.65C3
Speaker Type	6.5-inch 3-Way Component System
Maximum Output Power	400 Watts (Peak)
RMS Power Handling	250 Watts per set
Impedance	4 Ohms
Frequency Response	20-40kHz
Efficiency (1w/1m)	94dB
Woofer Diameter	6.5 Inches
Woofer Mounting Depth	2.65 Inches
Enclosure Material	Natural fiber, Butyl rubber
Connectivity Technology	Coaxial (via crossover network)
Number of Audio Channels	3.0
Item Weight	10.5 Pounds
Item Dimensions (D x W x H)	15.5"D x 4"W x 8"H (Packaging)

Warranty Information

This Precision Power P.65C3 speaker system comes with a **Limited Warranty**. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For detailed warranty information, including coverage, exclusions, and how to make a claim, please visit the official Precision Power website or contact their customer support directly.

Support

If you require further assistance, have questions not covered in this manual, or need technical support, please contact Precision Power customer service.

- **Online Support:** Visit the official Precision Power website for FAQs, product registration, and support resources.
- **Contact Information:** Refer to the Precision Power website for current contact details, including phone numbers and email addresses for technical support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question