

Audison APK570

Audison APK 570 Car Audio System User Manual

Model: APK570

INTRODUCTION

The Audison APK 570 system is a high-quality 2-way car audio component kit designed for vehicles with doors equipped to house elliptical 5x7 inch woofers. This manual provides essential information for the proper installation, operation, and maintenance of your Audison APK 570 system, ensuring optimal performance and longevity.

PRODUCT OVERVIEW

The APK 570 system comprises the following key components:

- **AP 570 Woofers:** Elliptical 5x7 inch woofers optimized for car door installation.
- **AP 1 Tweeters:** 26 mm diameter tweeters designed for clear high-frequency reproduction.
- **APCX TW 570 Crossovers:** Ultra-compact dedicated crossovers for precise signal distribution and tweeter level attenuation.



Figure 1: Complete Audison APK 570 system including two woofers, two tweeters, and two crossovers.



Figure 2: A single set of Audison APK 570 components, showing one woofer, one tweeter, and one crossover.

KEY FEATURES

Woofer Features:

- **32 mm Pure Copper Voice Coil:** Ensures high power handling and precise low-frequency control.
- **Water-Repellent Treated Paper Cone:** Developed with FEM simulation and optimized with Klippel R&D Scan Vibrometer for superior performance.
- **Reduced Mounting Depth:** Facilitates easy installation in OEM placements.
- **"Triple Wave" Surround Profile:** Provides maximum excursion linearity.
- **Compact Basket:** Protected by abrasion-resistant and scratchproof coating, with the motor affixed using damping epoxy adhesive.
- **Double Faston Connectors:** Speed up speaker connection and ensure perfect contact.

Tweeter Features:

- **26 mm Diameter Diaphragm:** Combined with a wide-roll surround for maximum efficiency and reduced resonance frequency.
- **Acoustic Lens:** Designed to compensate for in-car frequency response in the 10kHz - 13kHz bandwidth, addressing critical OEM placements.



Figure 3: Top view of the Audison AP 1 Tweeter, showcasing its protective grille and Audison branding.



Figure 4: Angled view of the Audison AP 1 Tweeter, highlighting its compact design and hexagonal grille pattern.

Crossover Features:

- **Ultra-Compact Design:** Facilitates easy installation in tight spaces.
- **Tweeter Output Level Attenuation:** Allows for fine-tuning of the tweeter's output.



Figure 5: Side view of the Audison APCX TW 570 Crossover, showing its input and output terminals.



Figure 6: Angled view of the Audison APCX TW 570 Crossover, displaying its compact form factor and adjustment switch.

SPECIFICATIONS

| Parameter | Value |
|---------------------------|-------------|
| Speaker Type | Component |
| Woofer Size | 5x7 inches |
| Tweeter Diameter | 26 mm |
| Continuous Power Handling | 100W |
| Peak Power Handling | 300W |
| Impedance | 4 Ohms |
| Frequency Response | 55 – 20k Hz |

| Parameter | Value |
|---------------|-----------------------|
| Sensitivity | 93.5 dB/Spl |
| Mounting Type | Car Mount, Door Mount |
| Item Weight | 6 Pounds |

Setup and Installation

The Audison APK 570 system is designed for straightforward installation, particularly in car doors that accommodate 5x7 inch elliptical speakers. Due to the compact design of the woofers' baskets and the ultra-compact crossovers, fitting them into OEM locations is simplified.

General Installation Guidelines:

- Safety First:** Disconnect the vehicle's battery before beginning any electrical work.
- Mounting Location:** Ensure the chosen mounting location in the car door provides sufficient depth and clearance for the woofer. The reduced mounting depth of the APK 570 woofers assists in this.
- Wiring:** Connect the woofers and tweeters to the APCX TW 570 crossovers. The woofers feature double Faston connectors for quick and secure wiring.
- Crossover Placement:** Place the ultra-compact crossovers in a secure, dry location, ideally close to the speakers to minimize cable length.
- Tweeter Placement:** Install the tweeters in a location that allows for optimal sound staging, often in or near the dashboard, A-pillars, or factory tweeter locations.
- Secure Mounting:** Use appropriate screws and mounting hardware to firmly secure all components to prevent vibrations and ensure sound quality.

For detailed wiring diagrams and specific vehicle installation instructions, consult a professional car audio installer or refer to the comprehensive installation guide provided with your product packaging.

Operating the System

Once installed, the Audison APK 570 system operates as part of your vehicle's audio setup. The primary operational adjustment available directly on the system components is the tweeter output level attenuation on the APCX TW 570 crossovers.

Tweeter Level Adjustment:

- The APCX TW 570 crossovers include a switch or jumper setting to adjust the tweeter's output level. This allows for fine-tuning the high-frequency response to match your listening preferences and the acoustic environment of your vehicle.
- Refer to the markings on the crossover (e.g., 0 dB, +2 dB) to select the desired attenuation level. Adjustments should be made with the audio system off to prevent damage.
- Experiment with different settings to achieve the most balanced and natural sound reproduction for your specific car interior and speaker placement.

The woofers are designed to be easily driven by various amplifiers, maximizing efficiency without requiring complex filtering due to their mechanical cut-off cone-dust cap system.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Audison APK 570 system. These components are designed for durability, but regular care is recommended.

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Environmental Protection:** While the woofer cone is water-repellent treated, avoid direct exposure to excessive moisture or extreme temperatures. Ensure the installation environment is as dry and stable as possible.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they remain secure. Loose connections can lead to degraded sound quality or component damage.
- **Professional Inspection:** If you notice any significant changes in sound quality or suspect a malfunction, it is advisable to have the system inspected by a qualified car audio technician.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Audison APK 570 system. If the problem persists after attempting these solutions, contact a professional installer or Audison support.

| Problem | Possible Cause | Solution |
|------------------------|--|---|
| No Sound from Speakers | Loose wiring connection; Amplifier off or faulty; Head unit issue; Blown fuse. | Check all speaker and amplifier connections. Ensure amplifier is powered on. Verify head unit is functioning. Check vehicle's audio system fuses. |
| Distorted Sound | Over-driving speakers (volume too high); Improper gain settings on amplifier; Loose speaker mounting; Damaged speaker. | Reduce volume. Adjust amplifier gain settings appropriately. Ensure speakers are securely mounted. Inspect speaker cones for damage. |
| No Sound from Tweeters | Incorrect crossover connection; Tweeter level attenuation set too low; Damaged tweeter. | Verify tweeter connections to the crossover. Check the tweeter attenuation switch on the crossover. Inspect tweeter for physical damage. |
| Weak Bass Response | Incorrect woofer wiring (out of phase); Poor woofer seal in door; Amplifier not providing enough power. | Ensure woofer wires are connected with correct polarity. Check woofer mounting for airtight seal. Verify amplifier power output meets speaker requirements. |


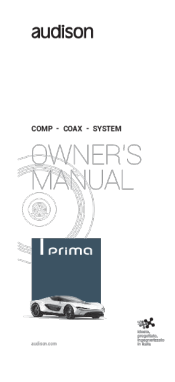


WARRANTY AND SUPPORT

Audison products are manufactured to the highest quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product packaging or visit the official Audison website. Keep your proof of purchase for warranty claims.

For technical support, installation assistance, or service inquiries, please contact your authorized Audison dealer or the Audison customer support team. Contact information can typically be found on the Audison website or in your product documentation.

Audison Official Website: www.audison.eu

Related Documents

| | |
|---|---|
|  | <p>Audison Prima COMP - COAX - SYSTEM Owner's Manual</p> <p>Comprehensive owner's manual for Audison Prima COMP, COAX, and SYSTEM car audio components, detailing installation instructions, safety guidelines, technical specifications, and warranty information.</p> |
|  | <p>Audison Prima COMP - COAX - SYSTEM Owner's Manual</p> <p>Comprehensive owner's manual for Audison Prima COMP - COAX - SYSTEM car audio components, detailing installation, safety guidelines, warranty information, product specifications, and wiring diagrams.</p> |
|  | <p>Audison Thesis Series Car Audio Components - Technical Specifications and Systems</p> <p>Comprehensive technical specifications, system configurations, and detailed product information for the Audison Thesis series car audio amplifiers, tweeters, midranges, woofers, subwoofers, and complete speaker systems.</p> |
|  | <p>Audison AP F1D Amplifier User Manual</p> <p>Comprehensive user manual for the Audison AP F1D amplifier, detailing installation, connections, operation, safety precautions, technical specifications, and warranty information.</p> |

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APK 570

2 Way system components
300 W

TECHNICAL SPECIFICATIONS

| | |
|---------------------|--------------------------------------|
| Component | 2 Way System |
| Model | APK 570 |
| Power handling | 300 W |
| Impedance | 4 Ω |
| Frequency response | 40 - 20,000 Hz |
| Crossover type | 2nd order, 12 dB/oct |
| Woofer size | 165 mm (6.5 in) |
| Tweeter size | 25 mm (1 in) |
| Woofer magnet size | 100 x 100 mm (4 x 4 in) |
| Tweeter magnet size | 25 x 25 mm (1 x 1 in) |
| Weight | 1.5 kg (3.3 lb) |
| Dimensions | 165 x 100 x 40 mm (6.5 x 4 x 1.6 in) |

ACOUSTIC AND MECHANICAL DATA

| | |
|---------------------|--------------------------------------|
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AP 570 Tweeter

1. In this tweeter, Audison's patented soft dome tweeter provides maximum efficiency and reduced distortion frequency response.
2. Audison's design is optimized for high frequency response in the 10K - 20K Hz range.

AP 570 Woofer

1. The woofer is a soft dome, high power handling unit, featuring the Audison's patented soft dome tweeter.
2. The woofer is a soft dome, high power handling unit, featuring the Audison's patented soft dome tweeter.
3. The woofer is a soft dome, high power handling unit, featuring the Audison's patented soft dome tweeter.
4. The woofer is a soft dome, high power handling unit, featuring the Audison's patented soft dome tweeter.

APK 570 System

1. Designed for 200 Hz system frequency, the APK 570 system is a 2-way system with a 165 mm (6.5 in) woofer and a 25 mm (1 in) tweeter.
2. The system is designed for high frequency response in the 10K - 20K Hz range.

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[\[pdf\]](#) Specifications

AUDISON Prima APK570 Tech Sheet audison eu 2019 01

audison.com APK 570 2 Way system components 300 W TECHNICAL

SPECIFICATIONS Component Woofer Size mm in. Tweeter Size mm in. Power Handling W peak W continuous Impedance Frequency Response Hz Crossover Type Woofer Magnet size mm D x d x h in. Tweeter Magnet size mm D x d x ...

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