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KICKER CXA300.4

Kicker CXA300.4 Four-Channel Full-Range Amplifier User Manual

Model: CXA300.4 | Brand: KICKER

INTRODUCTION

The Kicker CXA300.4 is a versatile 4-channel amplifier designed to enhance your car audio system. It delivers 40 watts RMS to each of your front and rear speakers, significantly improving sound quality over standard car radio amplifiers. For powering small subwoofers or high-performance speakers, the CXA300.4 can be bridged into 2-channel mode, providing 150 watts RMS per channel. This manual provides essential information for proper installation, operation, and maintenance of your amplifier.

PRODUCT OVERVIEW

Familiarize yourself with the Kicker CXA300.4 amplifier and its components.



Figure 1: Top view of the Kicker CXA300.4 amplifier, showcasing the KICKER logo and model number.



Figure 2: Angled view of the amplifier, highlighting the power (GND, REM, +12V) and speaker output terminals on one side.



Figure 3: Angled view of the amplifier, showing the RCA input jacks and the control panel with various adjustments.



Figure 4: Diagram illustrating the physical dimensions of the Kicker CXA300.4 amplifier: 12.44 inches (length), 7.44 inches (width), and 2.38 inches (height).

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this amplifier installed by a professional car audio technician.

1. Mounting Location

- Choose a dry, well-ventilated location away from direct sunlight and heat sources.
- Ensure sufficient airflow around the amplifier's heatsink.
- Mount securely to prevent movement during vehicle operation.

2. Wiring Connections

Always disconnect the vehicle's battery before making any power connections.

- **Power (BATT +12V):** Connect to the positive terminal of the vehicle's battery using a fuse or circuit breaker within 18 inches of the battery. Use appropriate gauge wire (e.g., 8-gauge or 4-gauge depending on total system power).
- **Ground (GND):** Connect to a clean, solid metal point on the vehicle's chassis, ensuring good electrical contact. The ground wire should be the same gauge as the power wire and as short as possible.
- **Remote Turn-On (REM):** Connect to the remote turn-on lead from your head unit or other switched 12V source.
- **RCA Inputs (AMP1, AMP2):** Connect to the RCA outputs of your head unit.
- **Speaker Outputs:** Connect your speakers to the appropriate terminals. Observe correct polarity (+/-). For bridged mode, refer to the amplifier's specific bridging instructions (typically marked on the amplifier).



Figure 5: Detailed view of the power input terminals (GND, REM, +12V) and speaker output terminals for AMP1 and AMP2, including bridging options.

OPERATING THE AMPLIFIER

Once installed, adjust the amplifier settings for optimal sound performance.



Figure 6: Control panel showing adjustable settings for Gain, X-OVER (crossover frequency), and Bass Boost for both AMP1 and AMP2 channels.

1. Gain Adjustment

- Set your head unit volume to about 75% of maximum.
- Slowly increase the amplifier's GAIN control until you hear slight distortion, then back off slightly.
- The gain control matches the amplifier's input sensitivity to the head unit's output. It is not a volume control.

2. Crossover (X-OVER)

- The CXA300.4 features a variable crossover (50-200Hz).
- Set to "HI" for high-pass filtering (for full-range speakers, blocking low frequencies).
- Set to "LO" for low-pass filtering (for subwoofers, blocking high frequencies).
- Adjust the frequency knob to suit your speakers and desired sound.

3. Bass Boost

- The Bass Boost control (0-12dB) allows you to increase the output at 40Hz.
- Use sparingly to avoid distortion and potential speaker damage.

4. Fader

- If your head unit has a fader control, set the amplifier's FADER switch to "ON". If not, set to "OFF".

MAINTENANCE

The Kicker CXA300.4 amplifier requires minimal maintenance to ensure long-term performance.

- Keep the amplifier clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Ensure all wiring connections remain secure. Periodically check for loose connections.
- Avoid blocking the amplifier's heatsink fins to maintain proper cooling.
- Do not expose the amplifier to excessive moisture or extreme temperatures.

TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Power / No Sound	Blown fuse, loose power/ground/remote wire, amplifier in protect mode.	Check fuse, verify all power connections, ensure remote wire is receiving 12V. Check speaker wiring for shorts.
Distorted Sound	Gain set too high, improper crossover settings, damaged speakers.	Reduce gain, adjust crossover frequency, inspect speakers for damage.
Amplifier Overheating	Insufficient ventilation, impedance mismatch, prolonged high-power operation.	Ensure proper airflow, verify speaker impedance, reduce listening volume.
No Bass Output	Crossover set to high-pass, phase issues, subwoofer wiring incorrect.	Set crossover to low-pass for subwoofers, check subwoofer polarity.

If problems persist after following these steps, consult a professional car audio technician or contact Kicker customer support.

SPECIFICATIONS

Key technical specifications for the Kicker CXA300.4 amplifier:

- **Model:** CXA300.4
- **Type:** Four-Channel Full-Range Amplifier
- **RMS Power Output (4 Ohm):** 40 Watts x 4 channels
- **RMS Power Output (2 Ohm):** 75 Watts x 4 channels
- **Bridged RMS Power Output (4 Ohm):** 150 Watts x 2 channels
- **Crossover:** Variable, 50-200Hz (HI/LO selectable)
- **Bass Boost:** Variable, 0-12dB at 40Hz
- **Dimensions (L x W x H):** 12.44 x 7.44 x 2.38 inches
- **Weight:** 5.5 pounds
- **Material:** Metal
- **Color:** Black

WARRANTY AND SUPPORT





For detailed warranty information, please refer to the warranty card included with your product or visit the official Kicker website. For technical support or service inquiries, please contact Kicker customer service directly. You can find more information and support resources on the[KICKER Store on Amazon](#).



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Related Documents - CXA300.4

	<p>KICKER KXMA1500.1 Mono Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the KICKER KXMA1500.1 mono amplifier, detailing performance specifications, installation guides, operation instructions, gain matching, troubleshooting, and warranty information.</p>
	<p>KICKER KMC4 Media Center Owner's Manual</p> <p>This document provides comprehensive installation, operation, and troubleshooting information for the KICKER KMC4 (46KMC4) Media Center, detailing specifications, features, connectivity options, and user controls.</p>

 <p>The cover features the KICKER logo at the top left, followed by the text 'Owner's Manual', 'Manual del Propietario', 'Manuel d'utilisation', and 'Benutzerhandbuch'. A large red chevron graphic points towards the bottom right. Below the chevron, it says 'KEY200.4' and '4-Channel DSP Amplifier'. At the bottom left, there are four small flags representing the United States, Mexico, France, and Germany.</p>	<p>KICKER KEY200.4 4-Channel DSP Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the KICKER KEY200.4 4-Channel DSP Amplifier, detailing installation, operation, features, auto-setup, troubleshooting, and warranty information. Enhances vehicle audio quality with automatic calibration.</p>
 <p>The cover has a dark background with a teal chevron graphic. It features the KICKER logo and 'KMA AMPLIFIERS' in large letters. Smaller text lists models: 'KMA150.2', 'KMA300.4', and 'KMA450.6'. It also includes 'Owner's Manual' and a list of contents.</p>	<p>KICKER KMA Series Amplifiers Owner's Manual</p> <p>This owner's manual provides comprehensive information for KICKER KMA Series multi-channel amplifiers, including models KMA150.2, KMA300.4, and KMA450.6. It covers essential safety warnings, detailed performance specifications, installation guides, operational procedures, and troubleshooting tips.</p>
 <p>The cover is black with an orange chevron graphic. It features the KICKER logo and 'WXA3600.1 Warhorse Mono Amplifier' in large letters. It also includes 'Owner's Manual' and a list of contents.</p>	<p>KICKER WXA3600.1 Warhorse Mono Amplifier Owner's Manual</p> <p>Owner's manual for the KICKER WXA3600.1 Warhorse mono amplifier, detailing features, installation, wiring, operation, troubleshooting, and warranty information for car audio systems.</p>
 <p>The cover is dark with a light gray chevron graphic. It features the KICKER logo and 'PXIBT100.2' in large letters. It also includes 'Stereo Integrated Amplifier' and 'Owner's Manual'.</p>	<p>KICKER PXIBT100.2 Stereo Integrated Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the KICKER PXIBT100.2 amplified controller, covering installation, operation, performance specifications, and troubleshooting for Bluetooth, AUX, and USB audio sources.</p>