

## AudioControl 8510340

# AudioControl ACX-300.4 Powersports/Marine Amplifier User Manual

Model: ACX-300.4 (8510340) | Brand: AudioControl

## 1. PRODUCT OVERVIEW

The AudioControl ACX-300.4 is an IPX6 rated powersports and marine all-weather 4-channel amplifier designed for robust performance in challenging environments. It delivers powerful audio output and features advanced signal processing capabilities.

### Key Features:

- IPX6 Rated Powersports / Marine All Weather Four Channel Amplifier
- Power Output: 4 x 75 watts @ 2 ohms, 4 x 50 watts @ 4 ohms, and 150 watts @ 4 ohms bridged
- Flexible Input Modes: Supports both 4 and 2 channel input configurations
- Crossover Network: Features a Linkwitz-Riley Crossover for precise audio filtering
- AccuBASS Bass Management: Ensures optimal bass response at all volume levels
- GTO™ Signal Sense: Automatic turn-on/off detection
- High and Low Input Modes: Versatile connectivity options
- Durable Construction: Built to withstand harsh marine and powersports conditions

## 2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your ACX-300.4 amplifier. It is recommended that installation be performed by an authorized AudioControl dealer to ensure proper setup and to qualify for the full 5-year warranty.

### 2.1 Mounting Location:

Choose a secure, dry, and well-ventilated location for mounting the amplifier. Ensure it is protected from direct water exposure, although the unit is IPX6 rated for water resistance. The surface mount design allows for flexible placement.

### 2.2 Wiring Connections:

- **Power Connection:** Connect the amplifier directly to the vehicle's battery using appropriate gauge power and ground wires. Ensure a fuse is installed close to the battery.
- **Ground Connection:** Securely connect the ground wire to a clean, unpainted metal surface on the vehicle

chassis.

- **Remote Turn-On:** Connect the remote turn-on wire to a switched 12V source from your head unit or ignition. The GTO™ Signal Sense feature can also be used for automatic turn-on.
- **Input Signals:** Connect your audio source (head unit) to the amplifier's input terminals. The ACX-300.4 supports both high-level (speaker level) and low-level (RCA) inputs.
- **Speaker Outputs:** Connect your speakers to the amplifier's output terminals, observing correct polarity and impedance. The amplifier is stable down to 2 ohms per channel.

## 2.3 Initial Settings:

Before powering on, set the input level switches to either "Low" or "High" depending on your source unit's output. Adjust the gain controls to match the output of your source unit, ensuring no clipping occurs. Configure the High Pass Crossover settings as needed for your speaker setup.

## 3. OPERATING INSTRUCTIONS

Once installed and wired correctly, operating the ACX-300.4 amplifier is straightforward. The amplifier is designed for reliable performance in marine and powersports applications.

### 3.1 Powering On/Off:

The amplifier will power on automatically when it detects an audio signal (if GTO™ Signal Sense is enabled) or when a 12V remote turn-on signal is received. It will power off when the signal is removed or the remote turn-on is deactivated.

### 3.2 Adjusting Gain:

The gain controls allow you to match the amplifier's input sensitivity to the output voltage of your source unit. Adjust the gain to the highest level possible without introducing distortion or clipping. The "Maximized" indicator LEDs will illuminate when the input signal is optimized.

### 3.3 Crossover Settings:

The built-in Linkwitz-Riley Crossover allows you to filter out low frequencies from your speakers. Use the High Pass Crossover controls to set the desired cutoff frequency (e.g., 80 Hz or 120 Hz) to protect your speakers and improve sound clarity. You can also bypass the crossover if desired.

### 3.4 AccuBASS™ Feature:

AccuBASS™ is an AudioControl proprietary feature that compensates for bass roll-off often found in factory audio systems. It restores and enhances bass response, providing a fuller and more dynamic sound experience, especially at lower volume levels.

## 4. MAINTENANCE

The ACX-300.4 amplifier is designed for durability and requires minimal maintenance. Regular checks can help ensure its long-term performance.

- **Cleaning:** Periodically wipe down the amplifier with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.

- **Connections:** Occasionally inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure that the amplifier's cooling fins are not obstructed. Proper airflow is essential to prevent overheating.
- **Environmental Protection:** While the amplifier is IPX6 rated, prolonged exposure to extreme conditions (e.g., direct saltwater spray, extreme temperatures) should be minimized where possible.

## 5. TROUBLESHOOTING

If you encounter issues with your ACX-300.4 amplifier, refer to the following common troubleshooting steps. If the problem persists, contact AudioControl customer support or an authorized dealer.

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse, loose power/ground connection, no remote turn-on signal, GTO™ Signal Sense not detecting signal.	Check fuse, verify all power and ground connections are secure. Ensure remote wire has 12V or audio signal is present for GTO™ Sense.
No Sound Output	Muted source unit, incorrect input selection, loose speaker wires, amplifier in protection mode.	Check source unit volume/mute. Verify input mode (2 Ch/4 Ch). Inspect speaker connections. Check protection light on amplifier.
Distorted Sound	Gain set too high, speaker impedance too low, damaged speakers, poor signal source.	Reduce gain. Verify speaker impedance matches amplifier's capabilities. Test with different speakers if possible. Check source unit for distortion.
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high volume use.	Ensure proper airflow around the amplifier. Check speaker impedance. Reduce volume or allow amplifier to cool.

## 6. SPECIFICATIONS

Specification	Value
Model Number	8510340
Brand	AudioControl
Channels	4
Power Output (4 ohms)	4 x 50 watts
Power Output (2 ohms)	4 x 75 watts
Power Output (Bridged 4 ohms)	150 watts
Voltage	14.4 Volts

Specification	Value
Dimensions (L x W x H)	9 x 3.87 x 2.25 inches
Item Weight	4.38 pounds
Mounting Type	Surface Mount
IP Rating	IPX6
Material	Plastic or treated metal
UPC	851523007836

## 7. PRODUCT IMAGES



Front-top view of the AudioControl ACX-300.4 Powersports/Marine Amplifier, showcasing its compact design and control panel.



Angled view of the ACX-300.4 amplifier, highlighting the input level, gain, and crossover controls.



Side-top perspective of the amplifier, showing its robust casing and heat sink design.



Direct top view of the ACX-300.4 amplifier, clearly showing the control panel layout and branding.



Top view of the amplifier with a closer look at the adjustable controls for input level, gain, and crossover settings.





The retail packaging for the AudioControl ACX-300.4 All-Weather Amplifier, showing product features and branding.



A collection of AudioControl subwoofers, demonstrating compatible audio components for the amplifier.



A single AudioControl speaker, illustrating the type of speaker that can be powered by the amplifier.

## 8. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller are available for this product at this time.

## 9. WARRANTY AND SUPPORT

The AudioControl ACX-300.4 amplifier comes with a **5-Year Warranty** when installed by an authorized AudioControl dealer. This warranty covers defects in materials and workmanship under normal use. For technical support, warranty claims, or further assistance, please contact AudioControl customer service or visit their official website. Retain your proof of purchase and installation records for warranty purposes.

### AudioControl Contact Information:

*Website:* [www.audiocontrol.com](http://www.audiocontrol.com)

*Support:* Refer to the website for contact details and support resources.



AudioControl			
Part Number	Description	Unit Price	Unit Price
8510240	DM-810 Matrix DSP 8in/10out	175.00	175.00
8510250	DM-608 Matrix DSP 6in/8out	175.00	175.00
8510260	DM-408 Matrix DSP 4in/6out	175.00	175.00
8510270	DM-208 Matrix DSP 2in/4out	175.00	175.00
8510280	DM-108 Matrix DSP 1in/2out	175.00	175.00
8510290	DM-008 Matrix DSP 0in/0out	175.00	175.00
8510300	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510310	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510320	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510330	DM-000 Matrix DSP 0in/0out	175.00	175.00
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8510350	DM-000 Matrix DSP 0in/0out	175.00	175.00
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8510370	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510380	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510390	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510400	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510410	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510420	DM-000 Matrix DSP 0in/0out	175.00	175.00
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8510690	DM-000 Matrix DSP 0in/0out	175.00	175.00
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8510800	DM-000 Matrix DSP 0in/0out	175.00	175.00
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8510950	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510960	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510970	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510980	DM-000 Matrix DSP 0in/0out	175.00	175.00
8510990	DM-000 Matrix DSP 0in/0out	175.00	175.00

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