

[Manuals.plus](#) /

› [AUDIOTEK](#) /

› Audiotek AT920S 2000W 2 Channel Car Audio Stereo Amplifier User Manual

AUDIOTEK AT-920S

Audiotek AT920S 2000W 2 Channel Car Audio Stereo Amplifier User Manual

1. PRODUCT OVERVIEW

The Audiotek AT920S is a 2-channel Class A/B car audio stereo amplifier designed to enhance your vehicle's sound system. It features 2 Ohm stable operation, providing a maximum output of 2000W. This amplifier is equipped with various controls for sound customization, including variable low pass crossover, fixed high pass crossover, and bass boost. Its remote sensing capability allows for automatic power-on when a signal is detected from the connected speaker.



2000 W

2 ohm

2 Channels



**FREE SHIPPING
IN USA**

Image 1.1: Top view of the Audiotek AT920S amplifier, showcasing its silver finish and blue Audiotek logo.

2. WHAT'S IN THE BOX

- 1 x Audiotek AT920S Amplifier
- 1 x Remote Bass Control
- 1 x User Manual (this document)



Image 2.1: The included remote bass control unit with its connecting cable.

3. SAFETY INFORMATION

Read all instructions carefully before installation and use. Failure to follow these guidelines may result in damage to the amplifier, vehicle, or personal injury.

- **Power Supply:** Ensure the vehicle's battery is disconnected before making any power connections. Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- **Grounding:** Always connect the ground terminal securely to a clean, unpainted metal surface of the vehicle chassis.
- **Ventilation:** Install the amplifier in a location that allows for adequate airflow to prevent overheating. Do not cover the amplifier or restrict its ventilation fins.
- **Professional Installation:** If you are unsure about any part of the installation process, seek assistance from a qualified car audio professional.
- **Fuse Protection:** The amplifier is equipped with internal fuse protection. Do not bypass or replace fuses with incorrect ratings.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

4. INSTALLATION (SETUP)

Proper installation is crucial for optimal performance and safety. Follow these steps carefully.

4.1. Mounting the Amplifier

Choose a secure, well-ventilated location for mounting the amplifier. Ensure it is away from moisture and direct sunlight. Use the provided mounting hardware to secure the amplifier firmly to a solid surface in your vehicle.

4.2. Wiring Connections

Refer to the diagram below for proper wiring connections. Ensure all connections are tight and secure to prevent electrical shorts or poor performance.



Image 4.1: Rear panel of the AT920S showing power, ground, remote, and speaker terminals.

- **Power (BATT+):** Connect a heavy-gauge power cable directly from the positive (+) terminal of your vehicle's battery to the BATT+ terminal on the amplifier. Install an in-line fuse holder with the appropriate fuse rating (25A x 1) as close to the battery as possible.
- **Ground (GROUND):** Connect a heavy-gauge ground cable from the GROUND terminal on the amplifier to a clean, unpainted metal surface of the vehicle chassis. The ground cable should be as short as possible.
- **Remote (REMOTE):** Connect a remote turn-on wire from your head unit's remote output to the REMOTE terminal on the amplifier. This wire signals the amplifier to turn on and off with your head unit.
- **Speaker Connections:** Connect your speakers to the SPEAKER CONNECTIONS terminals. Observe correct polarity (+ to + and - to -). The amplifier supports 2-channel stereo operation and can be bridged for mono output. Refer to the speaker connection diagram on the amplifier for bridging instructions.
- **RCA Inputs (LOW LEVEL):** Connect RCA cables from your head unit's pre-amp outputs to the LOW LEVEL inputs on the amplifier.
- **Speaker Level Inputs (HIGH LEVEL):** If your head unit does not have RCA outputs, you can use the HIGH LEVEL inputs by connecting speaker wires from your head unit's speaker outputs to these terminals. The amplifier features remote sensing for automatic turn-on with speaker level inputs.

4.3. Initial Settings

Before powering on, set the initial controls on the amplifier.



Image 4.2: Front panel of the AT920S showing input level, bass boost, and crossover controls.

- **Input Level (GAIN):** Start with the INPUT LEVEL control set to minimum (MIN). Gradually increase this setting after the system is powered on until the desired volume is achieved without distortion.
- **Crossover (LOW PASS / HIGH PASS / FULL RANGE):**
 - **LOW PASS:** For subwoofers, set the crossover to LOW PASS and adjust the frequency between 35Hz and 155Hz.
 - **HIGH PASS:** For full-range speakers, set the crossover to HIGH PASS (fixed at 200Hz).
 - **FULL RANGE:** For full-range output without filtering, select FULL RANGE.
- **Bass Boost:** Start with the BASS BOOST set to 0dB. Adjust incrementally if more bass is desired, up to +18dB. Excessive bass boost can cause distortion.

5. OPERATION

Once installed, operating your Audiotek AT920S amplifier is straightforward.

- **Power On/Off:** The amplifier will automatically turn on when your head unit is activated (via the remote wire or speaker level sensing) and turn off when the head unit is powered down. The POWER LED indicator will illuminate when the amplifier is on.
- **Adjusting Volume:** Use your head unit's volume control for overall system volume. The amplifier's INPUT LEVEL (gain) control should be set to match the output of your head unit, not as a volume control.

- **Remote Bass Control:** Use the included remote bass control to adjust the subwoofer level conveniently from the driver's seat.
- **Protection Indicator:** The PROTECTION LED will illuminate if the amplifier detects a fault condition (e.g., overheating, short circuit, low impedance). If this occurs, turn off your audio system and investigate the cause.

6. MAINTENANCE

To ensure the longevity and optimal performance of your amplifier, follow these maintenance guidelines:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's heatsink fins remain clear of obstructions. Dust or debris can accumulate and hinder heat dissipation.
- **Connections:** Occasionally check all wiring connections (power, ground, remote, speaker, RCA) to ensure they remain tight and free from corrosion.

7. TROUBLESHOOTING

If you experience problems with your amplifier, consult this section before contacting support.

Problem	Possible Cause	Solution
No Power / Power LED Off	Blown fuse Poor power or ground connection Remote wire not connected or faulty Vehicle battery low	Check and replace fuse (25A x 1) Verify all power and ground connections are secure Check remote wire connection and voltage Charge or replace vehicle battery
No Sound Output	RCA cables disconnected or faulty Speaker wires disconnected or shorted Input level (gain) set too low Head unit output issues	Check RCA cable connections and integrity Inspect speaker wiring for shorts or disconnections Increase input level gradually Verify head unit is functioning correctly
Distorted Sound	Input level (gain) set too high Speaker impedance mismatch Poor speaker connections Damaged speakers	Reduce input level Ensure speakers are compatible with 2 Ohm stable operation Check speaker wiring for secure connections Test speakers with another amplifier if possible

Problem	Possible Cause	Solution
Protection LED On	Overheating Speaker short circuit Low speaker impedance DC offset	Allow amplifier to cool; ensure proper ventilation Check all speaker wires for shorts to ground or each other Verify speaker impedance is within amplifier's limits (2 Ohm minimum) Disconnect speakers and RCA inputs; if protection light goes off, consult professional

8. SPECIFICATIONS

Feature	Detail
Model Number	AT-920S
Channels	2
Amplifier Class	Class A/B
Maximum Output Power	2000W
Power MAX (2 Ohms)	1000W x 2
Power RMS (4 Ohms)	230W x 2
Bridged Power (4 Ohms)	2000W x 1
S/N Ratio	103dB
Low Pass Crossover (Variable)	35Hz ~ 155Hz
High Pass Crossover (Fixed)	200Hz
Bass Boost (Variable)	0 to +18dB
Tri-mode Operation	Yes
Inputs	Line Level (RCA) & Speaker Level
Remote Subwoofer Control	Yes
Frequency Response	20Hz ~ 20kHz
THD (at RMS Output)	0.01%
Channel Separation	90dB
Damping Factor	125+
Fuse Rating	25A x 1
Dimensions (W x H x D)	9.72 x 2.2 x 10.85 inches
Item Weight	7.04 pounds
Power Supply	MOSFET Pulse Width Modulated

Feature	Detail
Heatsink	Heavy-Duty Aluminum Alloy
Protection Circuitry	Thermal and Speaker Short Protection

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Audiotek customer service. Keep your proof of purchase for warranty claims.

For further assistance, visit the official Audiotek website or contact your authorized dealer.