

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [ATOTOZONE](#) /
- › [ATOTOZONE CA-AEC122DL Compact Car Amplifier Instruction Manual](#)

## ATOTOZONE CAAEC122DL

# ATOTOZONE CA-AEC122DL Compact Car Amplifier Instruction Manual

Model: CAAEC122DL

[Introduction](#)   [Package Contents](#)   [Features](#)   [Installation Guide](#)   [Operating  
Instructions](#)   [Compatibility](#)   [Specifications](#)   [Safety &  
Protection](#)   [Maintenance](#)   [Troubleshooting](#)   [Warranty & Support](#)

## 1. INTRODUCTION

---

The ATOTOZONE CA-AEC122DL is a compact Class D 4-channel car amplifier designed to enhance your car audio experience. It delivers up to 4x60W RMS power and features a TI TPA3221 chip for reliable sound quality. This amplifier offers customizable EQ settings and comprehensive protection features, ensuring secure operation and improved audio performance in your vehicle.



Image: The ATOTOZONE CA-AEC122DL Compact Car Amplifier, showcasing its sleek design and compact size.

## 2. PACKAGE CONTENTS

---

Verify that all items are present in the package:

- Car Amplifier (CA-AEC122DL)
- 6.5ft/2m Power Cable
- Wire Harness
- 16Pin-to-20Pin Adapter Cable

# Compatible Headunits



F7 Series



S8 Series



A6 Series



A5L Series



X10 Series

## Package Contents



Amplifier



6.5ft/2m  
Power Cable



Wire Harness



16Pin-to-20Pin  
Adapter Cable

Image: A visual representation of the amplifier and its included accessories: power cable, wire harness, and adapter cable.

### 3. FEATURES

- **Plug and Play Installation:** Designed for easy connection with specific harnesses, requiring no professional skills. The upgraded 6.5ft/2m power cable allows flexible placement.
- **Impressive Power Output:** Delivers up to 4x60W RMS (THD=1%, 4Ω) and 4x125W RMS (THD=1%, 2Ω), providing significant power enhancement over typical car stereo amplifiers.
- **Reliable Sound Quality:** Features a 4-channel balanced input design that minimizes noise and distortion, utilizing a TI TPA3221 Class D chip for optimal sound performance.
- **Compact Design:** Small enough to fit in a storage box, this efficient Class D amplifier generates less heat and installs seamlessly in short chassis and single-DIN systems, saving space.
- **Customizable EQ Settings:** Tailor your audio experience with adjustable BASS, MID, and HIGH settings for the front sound stage, while maintaining balanced rear audio with preset EQ.
- **Comprehensive Protection Features:** Equipped with multiple protections including over/under voltage, short-circuit, and overheating safeguards, plus dual 15A fuses to ensure secure operation.

- **Amp-Speaker Pairing:** Perfectly matches ATOTOZONE CS-651DC speakers (not included), delivering optimized performance with RMS power between 60-70W. Avoid damaging underpowered stock speakers.

## Ultra-Compact & Ultra-Powerful

Truly Plug & Play



60Wx4 RMS @ 4Ω  
(1% THD+N)



125Wx4 RMS @ 2Ω  
(1% THD+N)



Plug & Play



3-Band EQ



2Ω/4Ω Compatible

12.4cm / 5.59"



Image: The amplifier's compact size and key power output specifications.

# Pure Power Meets Clean Sound

60Wx4 RMS @ 4Ω (1% THD+N) & 125Wx4 RMS @ 2Ω (1% THD+N)



S/N Ratio >108dB



Frequency Response:  
20Hz-20kHz



Real-world output is capped at 80Wx4 (1% THD+N, 2Ω) due to head unit fuse sharing and built-in device protection.

Image: Illustrates the pure power and clean sound delivered by the amplifier, highlighting S/N Ratio and Frequency Response.

# Dial in Your Perfect Sound

Choose Your Gain: 18dB | 24dB | 30dB | 34dB



Image: Demonstrates the adjustable BASS, MID, and HIGH settings for audio customization.

# Compatible Amp-Speaker

99% Match, 200% Elevated Experience



**CS-651DC Speaker**

Output power between 60-70W RMS

↑ 200%



**CA-AEC122DL Amplifier**

Output power 4×60W RMS (THD=1%, 4Ω)



**The CS-651DC speaker is not included.**  
And it is recommended to adjust the volume to 10-20 (peak 40) for the best state.

Image: Shows the recommended pairing of the CA-AEC122DL amplifier with ATOTOZONE CS-651DC speakers for optimal performance.

# Built-in Protections for Peace of Mind



Over Voltage  
Protection



Under Voltage  
Protection



Short-circuit  
Protection



Overheating  
Protection



Dual 15A  
Fuse Design



Avoid prolonged full volume (36-40/40) to prevent fuse burnout.

Image: Icons representing the various built-in protection features: Over Voltage, Under Voltage, Short-circuit, Overheating, and Dual 15A Fuse Design.

## 4. INSTALLATION GUIDE

The ATOTOZONE CA-AEC122DL amplifier is designed for a straightforward plug-and-play installation. Follow these steps for proper setup:

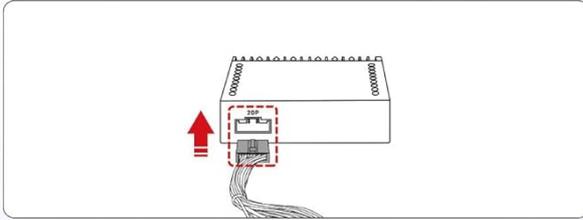
- Step 1: Connect Power Cable to Amplifier.** Connect the 20-pin end of the 6.5ft/2m power cable to the amplifier.
- Step 2: Connect Wire Harness.** Plug the wire harness into port 1, then connect the loose ends to the vehicle's original interfaces.
- Step 3: Connect to Car Stereo.**
  - For ATOTOZONE Car Stereos with 16-PIN Power Socket: Insert port 2 into the 16-pin power port of your ATOTO car stereo.
  - For ATOTOZONE Car Stereos with 20-PIN Power Socket: Connect port 2 to the 16-pin end of the 16Pin-to-20Pin Adapter Cable, then plug the adapter's 20-pin end into your ATOTO car stereo.
- Step 4: Secure the Amplifier.** Secure the amplifier in a hidden location, such as the glove compartment or

under the seat, to save space and maintain aesthetics.

## Installation Guide

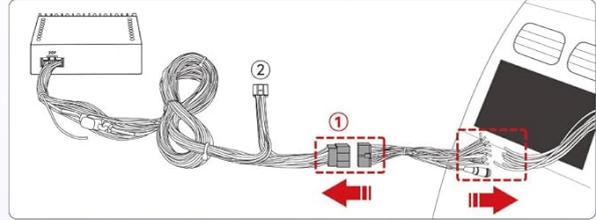
### Step1

Connect the 20-pin end of the 6.5ft/2m Power Cable to the amplifier.



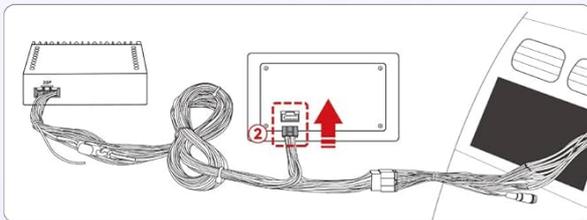
### Step2

Plug the Wire Harness into port ①, then connect loose ends to the vehicle's original interfaces.

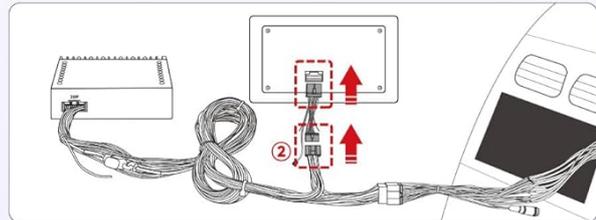


### Step3

● For ATOTOZONE Car Stereos with **16-PIN** Power Socket  
Insert port ② into the 16-pin power port of your ATOTO car stereo.



● For ATOTOZONE Car Stereos with **20-PIN** Power Socket  
Connect port ② to the 16-pin end of 16Pin-to-20Pin Adapter Cable, then plug the adapter's 20-pin end into your ATOTO car stereo.



### Step4

Secure the amplifier to either: glove compartment or under the seat.

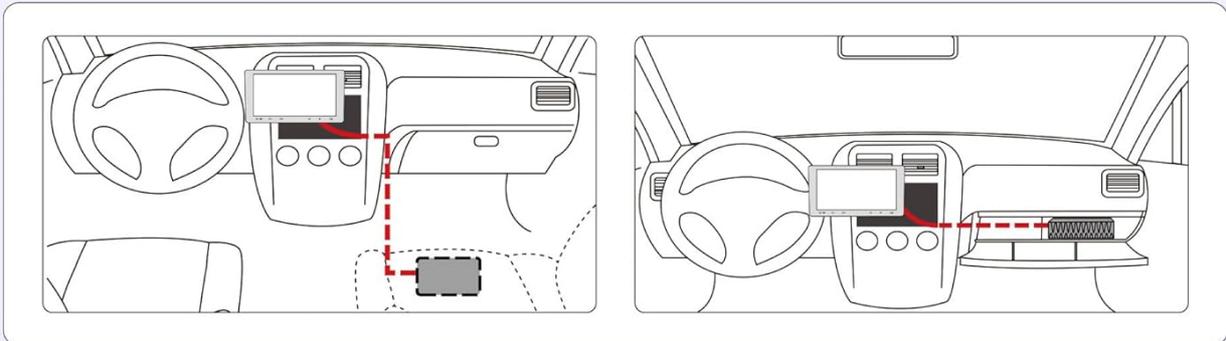


Image: Visual guide detailing the connection steps for the amplifier and its placement options.

Video: An official ATOTOZONE video demonstrating the installation process and key features of the CA-AEC122DL amplifier.

## 5. OPERATING INSTRUCTIONS

### 5.1. Customizable EQ Settings

The amplifier features a 3-band EQ adjustment (Bass, Mid, High) with 4-step gain adjustment (18dB, 24dB, 30dB, 34dB). Use these controls to fine-tune the audio output to your preference and suit different music genres. These adjustments primarily affect the front sound stage, while rear audio maintains a balanced preset EQ.

### 5.2. Dual Trigger Systems

The amplifier supports two trigger modes for power management:

- **ACC Mode:** Powers the amplifier on/off automatically with the vehicle's ignition key.

- **HI Mode (High-Level Input):** Auto-triggers via detection of speaker output signals from the head unit.

### 5.3. RCA Outputs

The amplifier includes two RCA outputs (R Output, L Output) allowing you to connect additional amplifiers or an active subwoofer for further audio system expansion.



Image: Close-up of the amplifier's Bass, Mid, and High gain adjustment knobs.

## 6. COMPATIBILITY

---

The CA-AEC122DL amplifier is compatible with specific ATOTOZONE head units:

- Double-DIN short chassis models: A6, F7, A5L, S8, and X10 Series.
- Single-DIN telescopic long chassis models: A6, F7, A5L, S8, and X10 Series.

**Important Note:** This amplifier is **not compatible** with double-DIN long chassis ATOTOZONE head units.

# Compatible Headunits



F7 Series



S8 Series



A6 Series



A5L Series



X10 Series

## Package Contents



Amplifier



6.5ft/2m  
Power Cable



Wire Harness



16Pin-to-20Pin  
Adapter Cable

Image: Displays various ATOTOZONE head unit series (F7, S8, A6, A5L, X10) that are compatible with the amplifier.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	CAAEC122DL
Brand	ATOTOZONE
Number of Channels	4
Output Power (RMS @ 4Ω)	4x60W (1% THD+N)
Output Power (RMS @ 2Ω)	4x125W (1% THD+N)
Total Output Power	500 Watts (Peak)
Voltage	12 Volts (DC)

Feature	Specification
Mounting Type	Freestanding
Item Weight	2.44 pounds
Package Dimensions	8.86 x 5.47 x 4.29 inches
Manufacturer	Shenzhen Yufengzhixing Electronics Tech Co Ltd

## 8. SAFETY AND PROTECTION

---

The ATOTOZONE CA-AEC122DL amplifier incorporates multiple safety features to protect both the device and your vehicle's electrical system:

- **Over-Voltage Protection (OVP):** Safeguards against excessive voltage input.
- **Under-Voltage Protection (UVP):** Protects against insufficient voltage, which can cause damage.
- **Short-Circuit Protection (SCP):** Prevents damage from short circuits in the wiring.
- **Over-Temperature Protection (OTP):** Monitors internal temperature and reduces output or shuts down to prevent overheating.
- **Clipping Detection:** Helps prevent speaker damage by detecting and managing signal clipping.
- **Dual 15A Fuses:** Provides an additional layer of protection against current surges.

**Important: Avoid prolonged operation at full volume (e.g., 36-40/40) to prevent fuse burnout and potential damage to the amplifier or speakers.**



Image: Icons representing various protection features for the amplifier.

## 9. MAINTENANCE

---

To ensure the longevity and optimal performance of your ATOTOZONE CA-AEC122DL amplifier, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the exterior of the amplifier with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Ensure Ventilation:** Make sure the amplifier's cooling fins are not obstructed. Proper airflow is crucial to prevent overheating.
- **Check Connections:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Avoid Moisture:** Protect the amplifier from water and excessive moisture. Install it in a dry location within your vehicle.

## 10. TROUBLESHOOTING

---

If you encounter issues with your ATOTOZONE CA-AEC122DL amplifier, refer to the following common troubleshooting steps:

- **No Power:**

- Check the power cable connection to both the amplifier and the vehicle's power source.
- Verify the vehicle's ignition is on if using ACC mode.
- Inspect the dual 15A fuses on the amplifier. Replace if blown.

- **No Sound:**

- Ensure all speaker wires are correctly connected to the amplifier and speakers.
- Check the input signal from your car stereo to the amplifier.
- Verify the volume levels on both the car stereo and the amplifier.

- **Distorted Sound:**

- Reduce the gain settings on the amplifier.
- Check speaker impedance compatibility (4Ω or 2Ω).
- Ensure speaker wires are not short-circuited or touching each other.

- **Overheating:**

- Ensure the amplifier has adequate ventilation and is not covered.
- Reduce the volume or gain settings.
- Verify speaker impedance matches the amplifier's capabilities.

If these steps do not resolve the issue, please contact ATOTOZONE customer support for further assistance.

## 11. WARRANTY AND SUPPORT

---

The ATOTOZONE CA-AEC122DL amplifier comes with a standard **12-month product care** from the date of purchase. You can extend this coverage by an **additional 6 months** by contacting ATOTOZONE customer care. Our customer care team is available to provide support and assistance. Details on how to contact them can be found in the product packaging. They generally respond promptly during workdays.

### 12+6 MOnths Product Care

12-m0nth product care. An additional 6-m0nth product care can be activated



Image: Illustration of the 12-month standard product care plus an additional 6 months available upon registration or contact.

