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Gladen ATM4

Gladen ATM4 Active Terminal Module - 4 Ohm User Manual

1. PRODUCT OVERVIEW

The Gladen ATM4 is an active terminal module designed to integrate an amplifier directly into a subwoofer enclosure, effectively converting any passive subwoofer into an active one. This module provides 200W RMS power output and features both high-level and low-level inputs, remote detection, and an adjustable low-pass filter. It is engineered for a 4 Ohm connection, offering a compact and efficient solution for enhancing your audio system.

2. WHAT'S IN THE BOX

Upon unpacking your Gladen ATM4, please ensure all components are present and undamaged.

- 1 x Gladen ATM4 Active Terminal Module

3. FEATURES

The Gladen ATM4 Active Terminal Module incorporates several key features for optimal performance and integration:

- **200W RMS Power Output:** Provides robust amplification for subwoofers.
- **High and Low-Level Inputs:** Offers versatile connection options for various audio sources.
- **Remote Detection:** Automatically turns the module on/off with the audio signal.
- **Low-Pass Filter:** Adjustable filter to optimize subwoofer frequency response.
- **Connection for RTC.2 Pot:** Allows for an optional remote level control.
- **Molex Connector:** Ensures secure and short-circuit protected power connections.
- **4 Ohm Compatibility:** Designed for use with 4 Ohm subwoofers.

4. SPECIFICATIONS

Specification	Value
Model Number	ATM4

Power Output	200W RMS
Impedance	4 Ohm
Input Type	High-Level, Low-Level
Item Weight	2 pounds
Package Dimensions	8.5 x 5.5 x 5.5 inches
ASIN	B08NSPHP62
Date First Available	January 6, 2022

5. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the Gladen ATM4 module. Failure to follow these guidelines may result in injury or damage to the product or other equipment.

- **Professional Installation Recommended:** Installation of car audio components can be complex. If you are unsure about any part of the installation process, seek assistance from a qualified professional.
- **Disconnect Power:** Always disconnect the vehicle's battery negative terminal before making any electrical connections to prevent short circuits and electrical shock.
- **Proper Wiring:** Ensure all wiring is correctly routed and secured to prevent damage from pinching, abrasion, or heat. Use appropriate gauge wires for power and speaker connections.
- **Ventilation:** Ensure the module is installed in a location with adequate ventilation to prevent overheating. Do not cover the module or restrict airflow.
- **Avoid Moisture:** Do not expose the module to water, moisture, or excessive humidity.
- **Correct Impedance:** Ensure your subwoofer's impedance matches the module's specified 4 Ohm output to prevent damage.

6. SETUP AND INSTALLATION

The Gladen ATM4 is designed to replace a standard passive terminal cup on a subwoofer enclosure. Follow these steps for installation:

1. **Preparation:** Disconnect the vehicle's battery. Carefully remove the existing terminal cup from your subwoofer enclosure.
2. **Mounting:** Insert the Gladen ATM4 module into the opening. Secure it using the provided screws, ensuring a tight seal to prevent air leaks.
3. **Subwoofer Connection:** Connect the internal speaker wires from your subwoofer driver to the appropriate terminals on the ATM4 module. Ensure correct polarity (+ to + and - to -).
4. **Power Connection:** Connect the main power (MAINS) and ground wires to the Molex connector. The ATM4 features remote detection, so a separate remote turn-on wire is typically not required if using high-level inputs or a compatible low-level source.
5. **Input Signal Connection:**
 - **High-Level Input:** If your head unit does not have RCA outputs, connect the speaker-level outputs from your head unit or amplifier to the HIGH-level inputs on the ATM4.
 - **Low-Level Input:** If your head unit or amplifier has RCA outputs, connect them to the LOW-level (RCA)

inputs on the ATM4.

6. **Optional RTC.2 Connection:** If using the optional Gladen RTC.2 remote level control, connect it to the RTC port on the module.
7. **Final Checks:** Double-check all connections for security and correct polarity. Reconnect the vehicle's battery.

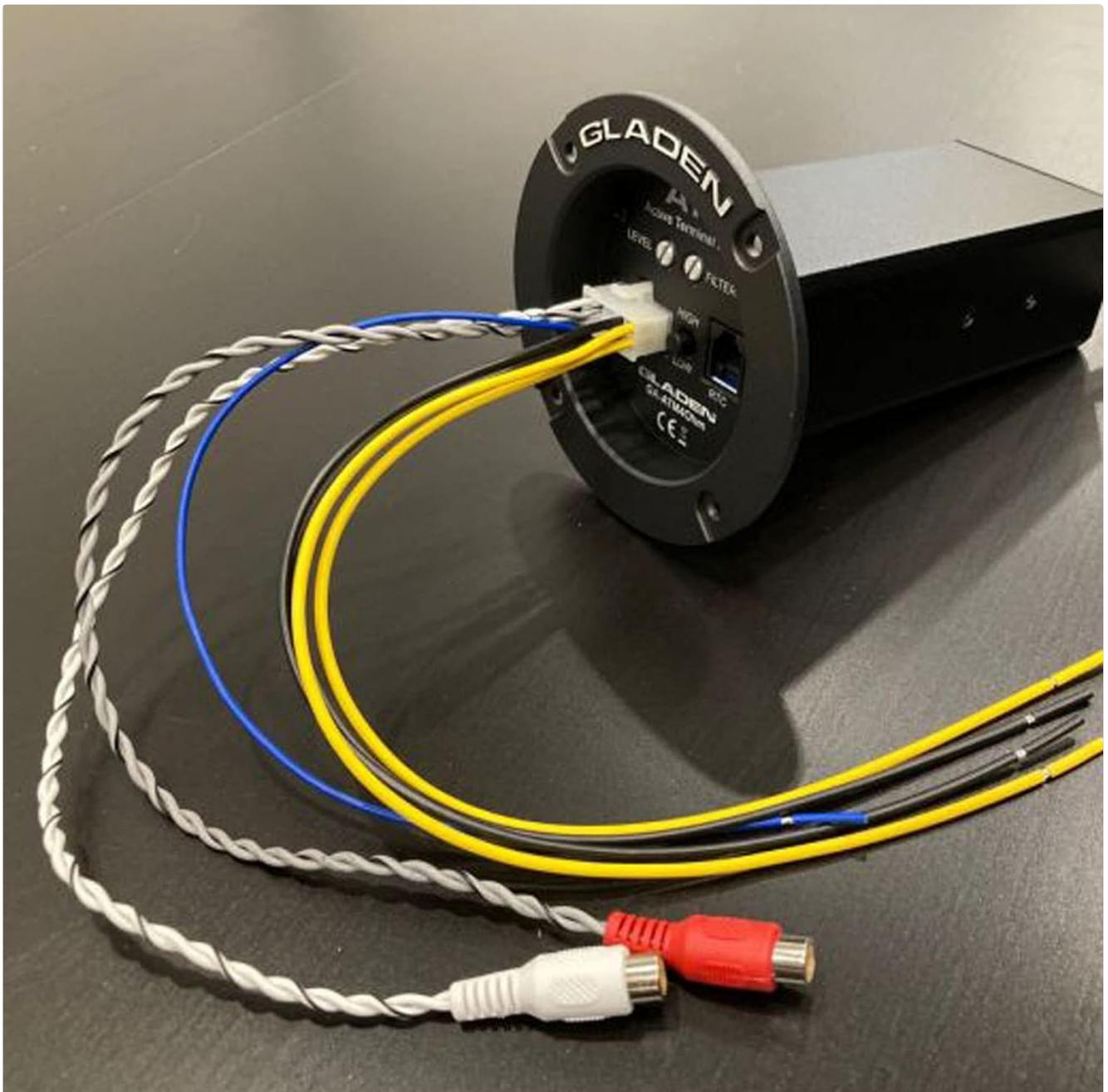


Image showing the Gladen ATM4 Active Terminal Module installed in a subwoofer enclosure, illustrating the external terminal plate and the internal module.



ACTIVE TERMINAL MODULE

Front panel of the Gladen ATM4 Active Terminal Module, showing the LEVEL and FILTER controls, HIGH and LOW inputs, MAINS, and RTC connections.



Close-up view of the Gladen ATM4 module, highlighting the various input and output connections, including the Molex connector and RCA inputs.

7. OPERATING INSTRUCTIONS

Once installed, the Gladen ATM4 module requires minimal operation. Adjustments are typically made during the initial setup phase.

- **LEVEL Control:** This knob adjusts the overall output level (volume) of the subwoofer. Start with the level set low and gradually increase it until the subwoofer blends seamlessly with your main speakers without overpowering them.
- **FILTER Control:** This knob adjusts the low-pass filter frequency. The low-pass filter allows only frequencies below the set point to pass through to the subwoofer, preventing it from playing higher frequencies that should be handled by your main speakers. Adjust this to achieve a smooth transition between your subwoofer and main speakers.
- **Remote Detection:** The ATM4 features automatic remote detection. When an audio signal is present on the high-level or low-level inputs, the module will power on. When the signal is absent, it will power off after a short delay.

- **RTC.2 (Optional):** If you have connected the optional RTC.2 remote level control, you can use it to conveniently adjust the subwoofer's output level from your listening position.

8. MAINTENANCE

The Gladen ATM4 module is designed for reliable operation with minimal maintenance.

- **Cleaning:** Periodically wipe the exterior of the module with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the area around the module remains clear to allow for proper airflow and prevent overheating.
- **Connections:** Occasionally check all wiring connections to ensure they remain secure and free from corrosion.

9. TROUBLESHOOTING

If you encounter issues with your Gladen ATM4 module, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No Power / No Indicator Light	No power supply; Blown fuse; Loose power connection.	Check vehicle battery connection. Verify power and ground wires are securely connected to the Molex connector. Check for a blown fuse in the power line (if applicable).
No Sound from Subwoofer	No input signal; Incorrect input connection; Subwoofer wires disconnected; Level control too low.	Ensure audio source is active. Verify high-level or low-level input connections are secure and correct. Check subwoofer wiring to the module. Increase the LEVEL control.
Distorted Sound	Input signal too high; Level control too high; Incorrect filter setting.	Reduce the input signal level from your head unit or amplifier. Decrease the LEVEL control on the ATM4. Adjust the FILTER control to a suitable frequency.
Module Overheating	Insufficient ventilation; Prolonged high-power operation.	Ensure the module has adequate airflow. Reduce the operating level or allow the module to cool down.

10. WARRANTY INFORMATION

The Gladen ATM4 Active Terminal Module is covered by a **1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage resulting from improper installation, accident, misuse, abuse, neglect, unauthorized modification, or normal wear and tear. For warranty claims, please retain your proof of purchase and contact your authorized Gladen retailer or the manufacturer's customer support.

11. SUPPORT

For further assistance, technical support, or inquiries regarding your Gladen ATM4 Active Terminal Module, please refer to the following resources:

- **Gladen Official Website:** Visit the official Gladen website for product information, FAQs, and support contact details.

- **Authorized Retailer:** Contact the retailer from whom you purchased the product for local support and service.