

C2G 40881

C2G Legrand 40881 50W Audio Amplifier User Manual

Model: 40881

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the C2G Legrand 40881 50W Audio Amplifier. This amplifier is designed to support distributed audio systems in various environments, including classrooms and conference rooms, and is suitable for plenum space installations. It delivers 50 watts of power (25 watts per channel) and adheres to industry-standard 25/70 volt designs.

PRODUCT OVERVIEW

The C2G 40881 Audio Amplifier offers robust features for versatile audio integration:

- **Audio Amplification:** Amplifies dynamic microphone or stereo audio signals, providing 25 watts of power per channel (50W total) to a sound reinforcement system.
- **Input Versatility:** Accepts 3.5mm stereo audio, RCA stereo audio, and 3.5mm microphone inputs.
- **Mixing Function:** Automatically mixes audio from all three inputs (3.5mm, RCA, microphone) and sends the combined signal to the speaker outputs.
- **Control Options:** Supports RS232 control or signals from an industry-standard volume control.
- **Public Address (PA) Sensor:** Automatically mutes audio inputs when a public address signal is detected, ensuring clear announcements.
- **Accessory Power Output:** Provides 12 Volts DC and 500mA, suitable for powering compatible controllers like the TruLink A/V controller.
- **Durable Design:** Features a built-in mounting bracket for secure installation.

What's in the Box

- C2G 40881 50W Audio Amplifier
- AC Adapter
- AC Power Cord
- Mounting Ears (2)

- 9-pin Captive Screw Plugs (2)
- User Manual (this document)



Image 1: Front view of the C2G 40881 Audio Amplifier, showing power indicator, output indicator, and adjustable knobs for RCA, 3.5mm, and Mic In levels.



Image 2: Rear view of the C2G 40881 Audio Amplifier, displaying 3.5mm input, RCA input, balance mic input, page sensitivity switch, L/MONO switch, speaker outputs, DC out, DC in, volume, RS232, and PA in terminals.



Image 3: Included accessories: AC adapter, AC power cord, two mounting ears, and two 9-pin captive screw plugs for terminal connections.

SETUP

1. **Unpack Components:** Carefully remove all items from the packaging and verify that all components listed in "What's in the Box" are present.
2. **Mounting (Optional):** If permanent installation is desired, use the provided mounting ears to secure the amplifier in a suitable location. Ensure adequate ventilation around the unit.
3. **Connect Speakers:** Connect your 25V or 70V speakers to the "SPEAKER OUTPUTS" terminals on the rear of the amplifier using appropriate speaker wire. Ensure correct polarity (+ to + and - to -). The amplifier provides 25 watts per channel.
4. **Connect Audio Sources:**
 - For stereo audio, connect your source (e.g., media player, computer) to the **RCA INPUT** or the **3.5mm INPUT** on the rear panel.
 - For a dynamic microphone, connect it to the **BALANCE MIC IN** 3.5mm input on the rear panel.
5. **Connect Remote Control (Optional):**
 - If using an RS232 control system, connect the control cable to the **RS232** terminal block.
 - If using a standard volume control, connect it to the **VOLUME** terminal block.
6. **Connect PA System (Optional):** If integrating with a public address system, connect the PA signal to the **PA IN** terminal block.
7. **Power Connection:** Connect the AC adapter to the "DC IN" port on the amplifier and then plug the AC power cord into a standard electrical outlet. The amplifier will power on.

Important: Ensure all connections are secure before powering on the unit. Refer to the wiring diagrams for specific terminal block connections if available in supplementary documentation.

OPERATING INSTRUCTIONS

1. **Power On/Off:** The amplifier powers on automatically when connected to an electrical outlet. There is no physical power button on the unit itself.
2. **Adjusting Input Levels:** Use the dedicated knobs on the front panel to adjust the input levels for RCA, 3.5mm, and MIC IN sources.
 - **RCA:** Adjusts the volume for the RCA stereo input.
 - **3.5mm:** Adjusts the volume for the 3.5mm stereo input.

- **MIC IN:** Adjusts the volume for the microphone input.

Note: The amplifier's mixing function combines all active input signals. Adjust individual levels to achieve the desired audio balance.

3. **Output Volume Control:** The overall output volume can be controlled via the connected remote wired wall plate controller or RS232 system, if installed.
4. **Page Sensitivity:** The "PAGE SENSITIVITY" switch on the rear panel adjusts the sensitivity of the PA sensor. This determines how readily the amplifier mutes other audio when a public address signal is present. Adjust as needed for your PA system.
5. **Mono/Stereo Switch:** The "L/MONO" switch on the rear panel allows you to select between stereo output or a summed mono output.

MAINTENANCE

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the exterior of the amplifier. Do not use liquid cleaners or aerosols, as they may damage the unit.
- **Ventilation:** Ensure that the amplifier's ventilation openings are not blocked. Proper airflow is essential to prevent overheating.
- **Cable Management:** Periodically check all cable connections to ensure they are secure and free from damage.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|----------------------------------|--|--|
| No power to the amplifier. | Power cord not securely connected. Power outlet is not active. | Ensure the AC adapter and power cord are firmly plugged into the amplifier and a working electrical outlet. Test the outlet with another device. |
| No sound output. | Incorrect speaker connections. Input source not connected or active. Input level knobs set too low. Remote volume control set to minimum or muted. PA sensor active. | Verify speaker wiring and polarity. Confirm audio source is connected and playing. Increase RCA, 3.5mm, and MIC IN level knobs. Check remote volume control settings. Check PA IN connection and page sensitivity. |
| Distorted or poor sound quality. | Input levels too high (clipping). Loose cable connections. Speaker impedance mismatch. | Reduce input level knobs. Check all audio and speaker cable connections. Ensure speakers are compatible with 25V/70V output. |

| Problem | Possible Cause | Solution |
|-----------------------------|---|---|
| PA system not muting audio. | PA IN not connected correctly. Page sensitivity set too low. | Verify PA IN wiring. Adjust the "PAGE SENSITIVITY" switch on the rear panel. |

SPECIFICATIONS

| | |
|------------------------|--|
| Model Number | 40881 |
| Output Power | 50W (25W per channel) |
| Output Voltage | 25V / 70V (selectable) |
| Inputs | 3.5mm Stereo Audio, RCA Stereo Audio, 3.5mm Microphone |
| Control Interfaces | RS232, Wired Wall Plate Controller (Volume) |
| Accessory Power Output | 12V DC, 500mA |
| Product Dimensions | 9.75 x 8.75 x 3 inches |
| Item Weight | 1.6 ounces |
| Manufacturer | Cables To Go (C2G) |
| TAA Compliant | Yes |

WARRANTY AND SUPPORT

The C2G 40881 Audio Amplifier is thoroughly inspected and tested to ensure quality and comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official C2G website.

For technical support, troubleshooting assistance, or warranty claims, please contact C2G customer service. Contact information can typically be found on the C2G website or in your product packaging.

Online Resources: For additional information and support, you may visit the [C2G Store on Amazon](#).