

Nobsound GFJ034

Nobsound GFJ034 2-Channel Digital Amplifier User Manual

Model: GFJ034

1. PRODUCT OVERVIEW

The Nobsound GFJ034 is a compact 2-channel digital amplifier designed for HiFi stereo desktop audio systems. It utilizes the TPA3116D2 chip, offering efficient amplification for various audio setups. This amplifier is suitable for driving passive speakers in a home or office environment, providing clear and powerful sound reproduction.



Figure 1.1: Front view of the Nobsound GFJ034 amplifier, highlighting its compact size and volume control knob.

Key Features:

- **2-Channel Stereo Output:** Provides dedicated left and right channels for stereo sound.
- **Digital Amplification:** Utilizes a Class D amplifier design for high efficiency and low heat generation.
- **Standard RCA Audio Input:** Compatible with a wide range of audio sources such as phones, MP3 players, CD players, and DACs.
- **Compact Design:** Small footprint suitable for desktop use.
- **Durable Construction:** Features an aluminum alloy chassis for enhanced durability and heat dissipation.



Figure 1.2: Internal view highlighting the TPA3116D2 amplifier chip, capable of delivering up to 50W+50W output.

2. SETUP INSTRUCTIONS

Follow these steps to correctly set up your Nobsound GFJ034 amplifier.

2.1 Unpacking and Inspection

- Carefully remove the amplifier from its packaging.
- Inspect the unit for any signs of damage during transit. If damage is found, contact customer support immediately.
- Ensure all components listed in the packing list are present.



Figure 2.1: Packing list and dimensions of the Nobsound GFJ034 amplifier. The package typically includes the amplifier unit and a user manual.

2.2 Connecting Audio Sources

The amplifier features standard stereo RCA input jacks for connecting your audio source.

1. Locate the **INPUT** RCA jacks on the rear panel of the amplifier. The red jack is for the right channel (R), and the white/black jack is for the left channel (L).
2. Connect your audio source (e.g., CD player, DAC, smartphone with an RCA adapter) to these input jacks using an RCA cable.



Figure 2.2: Rear panel connections, showing the standard stereo RCA audio input and speaker output terminals.

2.3 Connecting Speakers

The amplifier uses binding post terminals for speaker connections.

1. Locate the **OUTPUT** speaker terminals on the rear panel. There are two sets of terminals, one for the left speaker (L) and one for the right speaker (R).
2. Connect your passive speakers to these terminals. Ensure correct polarity: connect the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier to the negative (-) terminal of the speaker.
3. Use appropriate gauge speaker wire for optimal performance.



Figure 2.3: Close-up of the pure copper gold-plated terminals, ensuring reliable connections for audio input and speaker output.

2.4 Power Connection

The amplifier requires a DC power supply (not included with some models).

1. Locate the **DC 12V-24V** power input jack on the rear panel.
2. Connect a compatible DC power adapter (12V-24V, at least 5A recommended for optimal performance, especially with 8-ohm speakers) to this jack.
3. Plug the power adapter into a wall outlet. The power indicator LED on the front panel will illuminate.

3. OPERATING INSTRUCTIONS

Operating the Nobsound GFJ034 amplifier is straightforward.

3.1 Powering On/Off

- The amplifier powers on automatically when connected to a power source. The small red LED on the front panel indicates power status.
- To power off, disconnect the DC power adapter from the amplifier or the wall outlet.

3.2 Adjusting Volume

- The large knob on the front panel controls the master volume.

- Rotate the knob clockwise to increase volume and counter-clockwise to decrease volume.
- It is recommended to start with the volume at a low level before playing audio to avoid sudden loud sounds.

3.3 Audio Playback

- Ensure your audio source is playing content.
- Adjust the volume on the amplifier to your desired listening level.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your amplifier.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure the amplifier is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, disconnect the power supply and store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

5. TROUBLESHOOTING

If you encounter issues with your Nobsound GFJ034 amplifier, refer to the following troubleshooting guide.

No Sound Output:

- **Check Power:** Ensure the power adapter is securely connected and plugged into a working outlet. Verify the power indicator LED on the amplifier is illuminated.
- **Check Volume:** Confirm the volume knob on the amplifier is turned up. Also, check the volume level on your audio source device.
- **Check Audio Input:** Ensure the RCA audio cable is securely connected to both the amplifier's INPUT jacks and your audio source. Try a different audio source or cable to rule out a faulty component.
- **Check Speaker Connections:** Verify that speaker wires are correctly connected to the amplifier's OUTPUT terminals and the speakers, maintaining correct polarity (+ to + and - to -). Ensure no bare wires are touching each other or the amplifier chassis.
- **Speaker Functionality:** Test your speakers with another audio device if possible to confirm they are working correctly.

Distorted Sound:

- **Volume Level:** Reduce the volume on both the amplifier and the audio source. Excessive volume can cause distortion (clipping).
- **Power Supply:** Ensure you are using an adequate power supply (12V-24V, 5A or higher). An underpowered supply can lead to distortion, especially at higher volumes or with demanding speakers.
- **Speaker Impedance:** Verify your speakers' impedance is compatible with the amplifier (typically 4-8 ohms).
- **Audio Source Quality:** Test with a different audio source or higher quality audio files to rule out issues with the input signal.

- **Cable Quality:** Inspect audio cables for damage or poor connections.

Overheating:

- **Ventilation:** Ensure the amplifier has sufficient airflow around it. Do not place it in an enclosed space or cover its ventilation points.
- **Load:** Operating the amplifier at very high volumes for extended periods or with very low impedance speakers can cause it to heat up. Reduce volume or ensure speaker compatibility.

6. SPECIFICATIONS

Feature	Specification
Brand	Nobsound
Model Number	GFJ034
Number of Channels	2
Amplifier Type	Digital Amplifier (Class D, TPA3116D2 chip)
Input Voltage	DC 12V-24V
Output Power	Up to 50W + 50W (into 4 Ohm load with 21V supply)
Audio Input	Stereo RCA
Mounting Type	Tabletop
Item Weight	11.2 ounces (approximately 317 grams)
Package Dimensions	9.1 x 6.1 x 4.7 inches
Certification	CE
Date First Available	April 29, 2015

7. WARRANTY AND SUPPORT

Nobsound products are designed for reliability and performance. For specific warranty information, please refer to the documentation included with your purchase or contact the retailer.

Customer Support:

If you require technical assistance, have questions about your product, or need to report an issue, please contact Nobsound customer support or visit the official Nobsound store online.

- **Online Store:** For additional product information and support resources, visit the [Nobsound Store on Amazon](#).

