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### Nobsound NS-15G PRO

# Nobsound NS-15G PRO Mini Digital Amplifier

User Manual

## 1. Introduction

Thank you for purchasing the Nobsound NS-15G PRO Mini Digital Amplifier. This device is designed to provide high-quality audio amplification for your passive speakers, featuring both Bluetooth 5.0 and RCA input options. This manual will guide you through the setup, operation, and maintenance of your amplifier to ensure optimal performance and longevity.

## 2. Safety Instructions

- Read all instructions carefully before operating the device.
- Keep the device away from water, moisture, and direct sunlight.
- Do not place the device near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only the power supply provided by the manufacturer. Connecting an incompatible power supply may damage the device and void the warranty.
- Ensure proper ventilation around the amplifier. Do not block any ventilation openings.
- Disconnect the power plug from the outlet during lightning storms or when unused for long periods.
- Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Important Power Connection Note:** Always connect the power adapter to the amplifier first, then plug the adapter into the wall outlet. Failure to follow this sequence may result in an electrical spark, which is normal for Class D amplifiers but should be handled with care.

## 3. Package Contents

Please check the package for the following items:

- 1x Nobsound NS-15G PRO Digital Amplifier
- 1x 19V Power Supply
- 1x User Manual (this document)




*Image: Contents of the Nobsound NS-15G PRO package, showing the amplifier, power supply, and manual.*

## 4. Product Overview

### 4.1 Front Panel

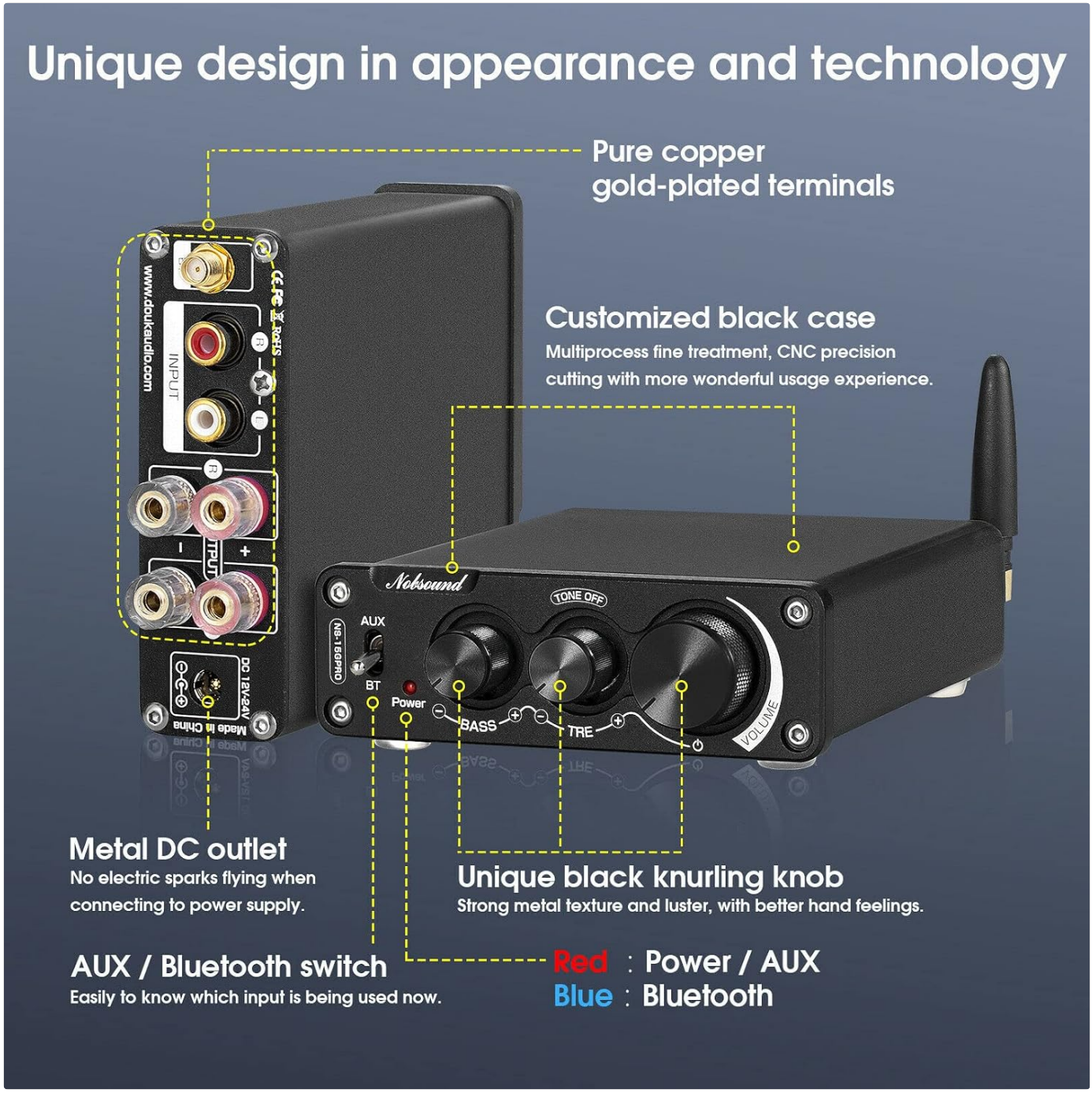



*Image: Detailed view of the Nobsound NS-15G PRO front panel with labels for each control.*

- **AUX/Bluetooth Input Select Switch:** Toggles between AUX (RCA) and Bluetooth input. An LED indicator (Red for AUX/Power, Blue for Bluetooth) shows the active input.
- **Power Indicator:** Integrated with the input switch LED.
- **Bass Knob:** Adjusts the low-frequency output.
- **Treble Knob:** Adjusts the high-frequency output. This knob also features a "Tone Off" function when pressed, bypassing the tone controls for a direct sound.
- **Power Switch** / **Volume Knob:** Turns the amplifier on/off and controls the overall output volume.

## 4.2 Rear Panel




*Image: Overview of the Nobsound NS-15G PRO rear panel, showing all input and output connections.*

- **Bluetooth Antenna Connector:** For attaching the included Bluetooth antenna.
- **RCA Input (L/R):** For connecting audio sources via RCA cables (e.g., CD player, TV, PC).
- **Speaker Output (L/R):** Banana plug compatible terminals for connecting passive speakers. Ensure correct polarity (+ to + and - to -).
- **DC 12V-24V Power Input:** For connecting the provided power adapter.

## 5. Setup Instructions

1. **Connect Speakers:** Connect your passive speakers to the "OUTPUT" terminals on the rear panel. 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.
2. **Connect Audio Source (RCA):** If using an RCA audio source, connect your device (e.g., CD player, TV, PC) to the "INPUT" RCA jacks on the rear panel using appropriate RCA cables.
3. **Connect Power:**
    - Ensure the amplifier's power switch/volume knob is in the "OFF" position (fully counter-clockwise).
    - Connect the DC plug of the provided power adapter to the "DC 12V-24V" input on the amplifier's rear panel.
    - Plug the power adapter into a wall outlet.
4. **Attach Bluetooth Antenna:** Screw the Bluetooth antenna onto its connector on the rear panel.

## 6. Operating Instructions

1. **Power On:** Turn the Power switch/Volume knob clockwise to power on the amplifier. The LED indicator will light up.
2. **Select Input:** Use the AUX/Bluetooth input select switch on the front panel to choose your desired audio source.
    - **Bluetooth Input:** Set the switch to "BT". The LED will turn blue.
    - **RCA (AUX) Input:** Set the switch to "AUX". The LED will turn red.
3. **Bluetooth Pairing:**
    - Ensure the input switch is set to "BT".
    - On your Bluetooth-enabled device (smartphone, tablet, etc.), search for Bluetooth devices.
    - Select "NS-15G PRO" from the list of available devices to pair. Once connected, you will hear a confirmation tone, and the LED will remain solid blue.
    - *Note: Bluetooth input has priority. If you wish to use the RCA input, ensure no device is actively connected via Bluetooth.*
4. **Adjust Volume:** Rotate the Power switch/Volume knob clockwise to increase volume and counter-clockwise to decrease it. Start with a low volume and gradually increase it to a comfortable listening level.
5. **Adjust Tone:** Use the "BASS" and "TREBLE" knobs to fine-tune the audio output to your preference.
    - Press the "TREBLE" knob to activate/deactivate the "Tone Off" function. When "Tone Off" is active, the bass and treble controls are bypassed, providing a direct, unfiltered sound.




*Image: Illustration of the "Tone Off" design, showing the treble knob being pressed to bypass tone controls.*

6. **Power Off:** Turn the Power switch/Volume knob fully counter-clockwise until it clicks to power off the amplifier.

## 7. Specifications

| Parameter | Value |
|---|---|
| Model | NS-15G PRO |
| Amplifier Chip | TPA3116 x 2 |
| OP Amplifier | NE5532 x 2 |
| Output Power | 100W x 2 (into 4Ω) |
| Channels | 2.0 |
| Audio Input | Bluetooth 5.0 (PCM5102A decoding), RCA |
| Audio Output | Banana Connectors |

| | |
|---|---|
| THD | ≤ 0.5% |
| SNR | ≥ 95 dB |
| Frequency Range | 10 Hz - 40 kHz |
| Power Range | DC 12V-25V / 3A (or higher) |
| Dimensions (L x W x H) | 90 x 108 x 36 mm (3.54 x 4.25 x 1.42 inches) |
| Net Weight | 355 g (0.78 lbs) |

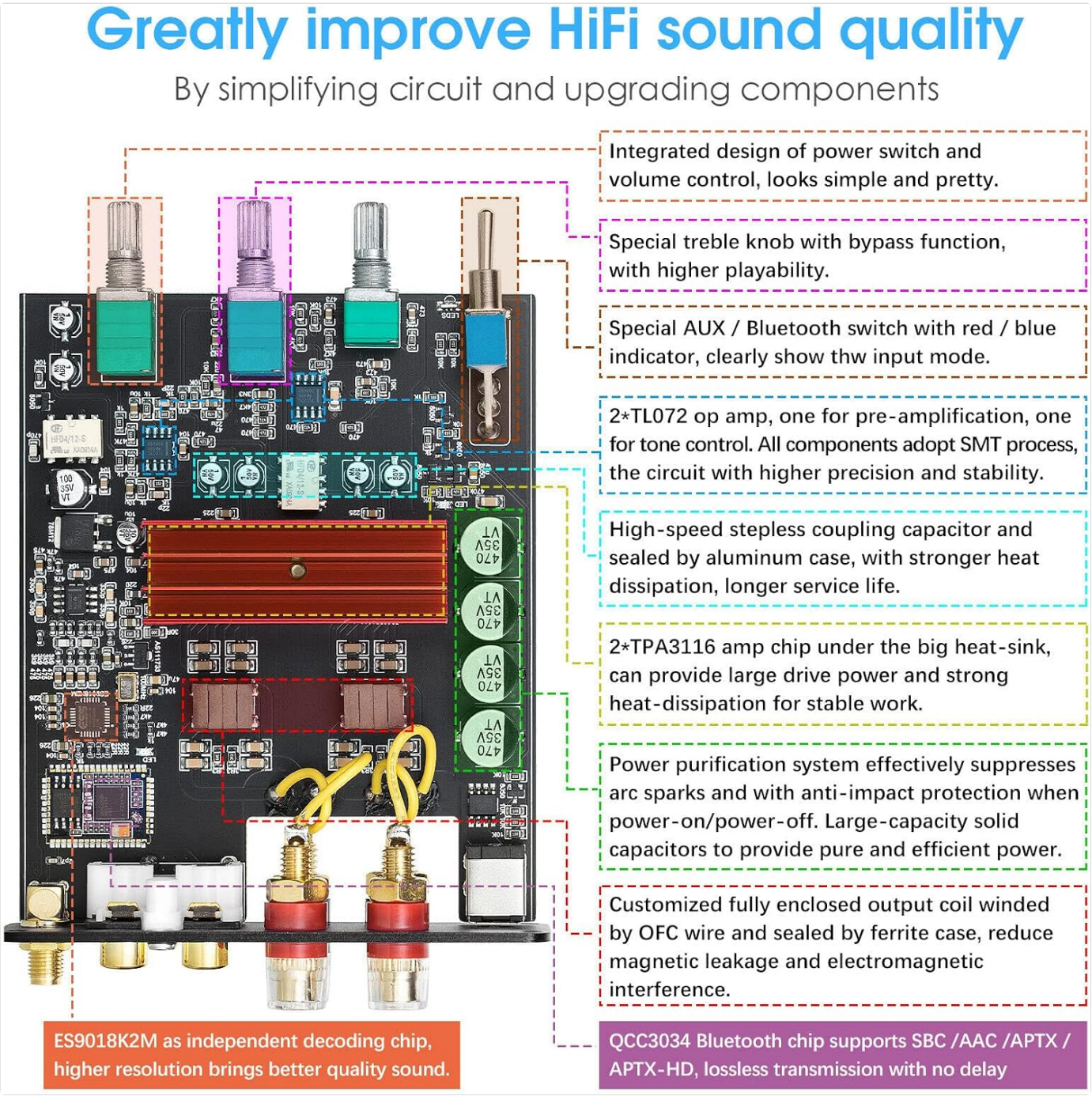



*Image: Diagram highlighting key internal components and their functions, such as TPA3116 chips and power purification system.*




*Image: Close-up view of the dual TPA3116 amplifier chips, emphasizing their role in output power.*




*Image: Illustration of Bluetooth 5.0 with aptX HD support, highlighting the QCC3034 Bluetooth chip and ES9018K2M DAC chip.*

## 8. Troubleshooting

| Problem | Possible Cause / Solution |
|---|---|
| No sound output | • Ensure the amplifier is powered on and the volume is turned up.<br>• Check speaker connections for correct polarity and secure fit.<br>• Verify the correct input source (Bluetooth or AUX) is selected.<br>• If using Bluetooth, ensure the device is paired and playing audio.<br>• If using AUX, check RCA cable connections and the audio source device.<br>• Test with a different audio source or speakers if possible. |

| | |
|---|---|
| Bluetooth connection issues | • Ensure the amplifier is in Bluetooth mode (blue LED).<br>• Make sure the Bluetooth antenna is securely attached.<br>• Move your Bluetooth device closer to the amplifier.<br>• Forget "NS-15G PRO" from your device's Bluetooth list and try pairing again.<br>• Restart both the amplifier and your Bluetooth device. |
| Distorted sound / Noise | • Reduce the volume on both the amplifier and the audio source.<br>• Check for loose speaker or RCA cable connections.<br>• Ensure speaker impedance matches the amplifier's capabilities.<br>• Keep the amplifier away from other electronic devices that may cause interference.<br>• Ensure the power supply is stable and correctly connected. |
| Power indicator not on | • Check if the power adapter is securely connected to both the amplifier and the wall outlet.<br>• Ensure the wall outlet is functional.<br>• Verify the power switch/volume knob is turned on. |

## 9. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or abrasive chemicals.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.

## 10. Warranty and Support

Nobsound products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your purchase or contact your retailer. If you encounter any issues or have questions regarding your NS-15G PRO amplifier, please contact Nobsound customer support through their official website or your purchase platform for assistance.

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