

Nippon America PA Power Horn Speaker

Nippon America PA Power Horn Speaker & Bluetooth Audio Amplifier

INSTRUCTION MANUAL

INTRODUCTION

Thank you for choosing the Nippon America PA Power Horn Speaker and Bluetooth Audio Amplifier. This manual provides essential information for the proper setup, operation, and maintenance of your new audio system. Please read this manual thoroughly before use to ensure optimal performance and safety.

Important Safety Information

- **Power Supply:** This unit requires a DC 12V power input. A 12V power supply *is not included* and must be purchased separately. Ensure the power supply meets the required specifications.
- **Placement:** While the speaker is designed for indoor/outdoor use and is UV protected, avoid prolonged exposure to extreme weather conditions. Ensure the amplifier is placed in a dry, well-ventilated area.
- **Ventilation:** Do not block any ventilation openings on the amplifier. Adequate airflow is crucial to prevent overheating.
- **Connections:** Always ensure the unit is powered off before making any connections to prevent damage to the amplifier or connected devices.
- **Volume Control:** Avoid operating the system at excessively high volumes for extended periods, as this may cause hearing damage or damage to the speaker.

PRODUCT OVERVIEW

Components

Your package should include the following main components:

- PA Power Horn Speaker
- Bluetooth Audio Amplifier

- Remote Control



Image: The complete system, showing the white horn speaker, the black amplifier unit, and the remote control.

Features

- **Speaker Horn:** Designed for indoor and outdoor PA applications, including car audio, marine systems, and phone systems. Features UV protection.
- **Amplifier:** Two main channel output with low distortion and acoustically accurate sound reproduction. Suitable for use in cars, boats, RVs, golf carts, or home environments.
- **Connectivity:** USB and SD card input for MP3 audio playback.
- **Wireless Audio:** Integrated Bluetooth for wireless audio streaming.
- **Radio:** Built-in FM Stereo radio.
- **Inputs:** External audio input (RCA) and microphone input (6.35mm jack).
- **Controls:** Volume, Echo, Bass, and Treble controls for audio customization.



Image: The amplifier unit and its accompanying remote control.

SETUP

Unpacking

Carefully remove all components from the packaging. Inspect for any signs of damage during transit. Retain the packaging for future storage or transport.

Connections

Before making any connections, ensure the amplifier's power switch is in the OFF position and no power supply is connected.

1. **Speaker Connection:** Connect the wires from the PA Power Horn Speaker to the speaker terminals on the rear of the amplifier. Ensure correct polarity (positive to positive, negative to negative) for optimal sound. The amplifier supports 4 Ohm impedance.



Image: Rear panel of the amplifier, highlighting the speaker output terminals, DC 12V input, RCA audio inputs, and FM antenna.

2. **Power Connection:** Connect a DC 12V power supply (*not included*) to the DC 12V input jack on the rear of the amplifier.
3. **Audio Input (Optional):**
 - **USB/SD Card:** Insert a USB flash drive or SD/MMC card containing MP3 audio files into the respective slots on the front panel.
 - **External Audio:** Connect an external audio source (e.g., smartphone, MP3 player, computer) to the RCA input jacks on the rear of the amplifier using an appropriate cable.
 - **Microphone:** Connect a microphone to the MIC INPUT jack on the front panel.
4. **FM Antenna:** Extend the telescopic antenna on the rear of the amplifier for improved FM radio

reception.

OPERATING INSTRUCTIONS

Power On/Off

Rotate the VOLUME ON/OFF knob clockwise to turn the amplifier ON. The display will illuminate. Rotate counter-clockwise until it clicks to turn OFF.

Audio Source Selection

Press the 'MODE' button on the front panel or remote control to cycle through available input sources: USB, SD, FM, Bluetooth, and External Audio (AUX).

Bluetooth Pairing

1. Switch the amplifier to Bluetooth mode using the 'MODE' button. The display will show 'BLUE' or a similar indicator.
2. On your Bluetooth-enabled device (e.g., smartphone), search for available Bluetooth devices.
3. Select 'BT-AMP' or a similar name from the list to pair. Once paired, a confirmation tone may sound, and the display may change.

USB/SD Playback

Once a USB drive or SD card is inserted and the amplifier is in USB/SD mode, playback should begin automatically. Use the playback control buttons (Play/Pause, Previous, Next) on the front panel or remote control to manage your music.

FM Radio Operation

In FM mode, use the 'Play/Pause' button to initiate an automatic scan for stations. Use the 'Previous' and 'Next' buttons to navigate between saved stations or manually tune frequencies.

Microphone Input

Connect a microphone to the MIC INPUT. Adjust the 'MIC VOL' knob to control the microphone's volume. The 'ECHO' knob can be used to add an echo effect to the microphone output.

Volume and Tone Control

- **VOLUME ON/OFF:** Controls the overall output volume.
- **BASS:** Adjusts the low-frequency audio output.
- **TREBLE:** Adjusts the high-frequency audio output.

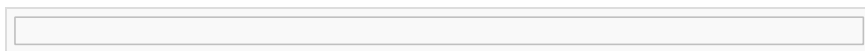


Image: Close-up of the amplifier's front panel, displaying the USB and SD card slots, microphone input, volume, echo, bass, and treble knobs, and playback controls.

MAINTENANCE

Cleaning

Wipe the unit with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays, as they may damage the finish or internal components.

Storage

When not in use for extended periods, store the unit in a cool, dry place away from direct sunlight and extreme temperatures. If possible, use the original packaging for protection.

UV Protection

The horn speaker is designed with UV protection for outdoor use. However, prolonged exposure to harsh sunlight and elements can still affect its lifespan. Consider covering the speaker when not in use in outdoor environments.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power supply not connected or faulty; Power switch off.	Ensure 12V power supply is connected and functional. Turn the VOLUME ON/OFF knob clockwise.
No sound output	Incorrect source selected; Speaker wires loose or incorrectly connected; Volume too low.	Press MODE to select correct input. Check speaker wire connections and polarity. Increase volume.
Poor sound quality / Static	Loose connections; Interference; Source audio quality.	Check all cable connections. Move unit away from other electronic devices. Try a different audio source.
Bluetooth not connecting	Amplifier not in Bluetooth mode; Device too far; Previously paired device connected.	Ensure amplifier is in Bluetooth mode. Move device closer. Disconnect from other Bluetooth devices.
Remote control not working	Battery depleted; Obstruction between remote and amplifier.	Replace remote battery. Ensure clear line of sight to the amplifier's IR receiver.

SPECIFICATIONS

Speaker Horn Specifications

- **Use:** Indoor / Outdoor (UV Protected)
- **Power Handling:** 50W RMS - 100W Max
- **Frequency Response:** 350Hz - 9Khz
- **Output:** 110dB
- **Nominal Impedance:** 8 Ohms
- **Magnet Weight:** 11.6 Oz.
- **Dispersion:** 90 degree x 20 degree (2Khz)
- **Dimensions:** 11" x 6.5"



Image: Side profile of the white horn speaker, showing its robust construction and mounting bracket.

Amplifier Specifications

- **Inputs:** USB, SD card, FM Stereo radio, Bluetooth, External audio input
- **Audio Format:** MP3
- **Output Type:** GH-Power BTL output
- **DC Input:** 12V (Power supply not included)
- **FM Frequency Range:** 87.5MHz-108.0MHz
- **Frequency Response:** 20Hz-20kHz
- **Output Power:** RMS 20W+20W 1KHz
- **Max Output:** 80 Watts
- **Harmonic Distortion:** <0.05% 4W 1KHz
- **SNR (Signal-to-Noise Ratio):** 85dB
- **High Control (Treble):** 12dB \pm 10KHz
- **Bass Control:** 12dB \pm 100Hz
- **Signal Level:** 220MV 47K

WARRANTY AND SUPPORT

This product comes with a Limited Warranty. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact Nippon America customer support. If you encounter any issues not covered in the troubleshooting section, please reach out to the retailer or manufacturer for assistance.