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NEOHIPO AK45

NEOHIPO AK45 Stereo Receiver & Amplifier User Manual

Model: AK45

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NEOHIPO AK45 Stereo Receiver & Amplifier. Please read this manual thoroughly before using the product to ensure proper function and to maximize your audio experience.



Image 1.1: NEOHIPO AK45 Stereo Receiver & Amplifier with included remote control.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all items listed below are present and in good condition:

- AK45 Bluetooth Amplifier x1
- User Manual x1
- Remote Control x1
- FM Antenna Cable x1
- Power Cable x1

What's in the Box?

Weight: 860g



Mini Stereo Amplifier × 1



Remote Control × 1



User's Manual × 1



Power Cable × 1

Image 2.1: Packaging contents for the NEOHIPO AK45, showing the amplifier, remote control, user manual, FM antenna cable, and power cable.

3. PRODUCT OVERVIEW AND CONTROLS

Familiarize yourself with the front and rear panels of the AK45 amplifier to understand its various inputs, outputs, and controls.

Product Detail



Image 3.1: Front and rear panel layout of the AK45 amplifier, indicating the function of each button, knob, and port.

Front Panel Controls:

- **Power Switch:** Turns the unit on or off.
- **USB Jack:** For USB drive input.
- **SD Card Slot:** For SD/MMC card input.
- **Digital Display:** Shows current mode and track information.
- **Mode Switch:** Cycles through input modes (Bluetooth, FM, USB, SD, RCA).
- **Previous/Next Song:** Navigates tracks in USB/SD mode.
- **Play/Pause:** Controls playback in USB/SD/Bluetooth mode.
- **Song Loop:** Repeats current track or playlist.
- **Treble Control:** Adjusts high-frequency audio output.
- **Bass Control:** Adjusts low-frequency audio output.
- **Mic Volume Control:** Adjusts microphone input volume.
- **Mic Jacks (MIC1, MIC2):** 1/4" inputs for microphones.
- **Total Volume Control:** Adjusts overall audio output volume.

Rear Panel Connections:

- **FM Antenna:** Connects to the included FM antenna for radio reception.
- **Audio Input (RCA):** Connects to external audio sources (e.g., CD player, TV) via RCA cables.
- **Speakers Output:** Connects to passive speakers (4-16 ohms impedance).
- **DC 12V Power Input:** Alternative power input.
- **AC 90-230V Power Input:** Connects to standard AC power outlet using the provided power cable.

4. SETUP INSTRUCTIONS

4.1 Connecting Speakers

1. Ensure the AK45 amplifier is powered off.
2. Connect your passive speakers to the "SPEAKERS OUTPUT" terminals on the rear panel. Ensure correct polarity (red to red, black to black). The amplifier supports speakers with an impedance of 4-16 ohms.

4.2 Connecting Audio Sources

The AK45 supports multiple input sources:

- **RCA Input:** Connect devices like CD players, DVD players, or TVs using RCA audio cables to the "AUDIO INPUT" ports.
- **USB/SD Card:** Insert a USB drive or SD card into the respective slots on the front panel.
- **Microphones:** Plug 1/4" microphones into the MIC1 or MIC2 jacks for karaoke functionality.
- **FM Antenna:** Connect the included FM antenna cable to the "FM ANT" port for radio reception.



Image 4.1: Input connections to the AK45 amplifier, illustrating how to connect USB drives, SD cards, smartphones (via Bluetooth), and microphones.



Image 4.2: Rear panel connections of the AK45 amplifier, detailing connections for FM antenna, speakers, TV, CD player, and DVD player.

4.3 Power Connection

1. Connect the provided power cable to the "AC 90-230V Power Input" on the rear panel.
2. Plug the other end of the power cable into a standard AC power outlet.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press the "POWER" switch on the front panel to turn the amplifier on or off.

5.2 Selecting Input Mode

Press the "MODE" button on the front panel or the remote control to cycle through available input sources: Bluetooth, FM Radio, USB, SD Card, and RCA Input.

Support Multiple Devices



FM



SD Card



U Disk



CD/DVD/TV



Bluetooth



Laptop/Tablet



Smartphone



Speakers



Microphone

Image 5.1: The AK45 amplifier supports multiple devices and input types, including FM radio, SD cards, USB drives, CD/DVD/TV connections, and Bluetooth.

5.3 Bluetooth Operation

1. Select "Bluetooth" mode using the "MODE" button. The digital display will show "BLUE".
2. On your smartphone, tablet, or other Bluetooth device, search for "AK45" in the Bluetooth settings and pair.
3. Once paired, you can stream audio wirelessly to the amplifier.
4. Maintain a distance of within 30 feet (10 meters) without significant obstructions for optimal Bluetooth connection. For TV or PC connections, keep the distance within 15 feet (5 meters).

Bluetooth 5.0 Connectivity

Range up to 30FT/10M



Image 5.2: Bluetooth 5.0 connectivity of the AK45 amplifier, demonstrating wireless audio streaming from a smartphone with a range of up to 30 feet (10 meters).

5.4 USB/SD Card Playback

1. Insert a USB drive or SD card containing MP3 audio files into the corresponding slot.
2. The amplifier will automatically switch to USB or SD mode and begin playback. If not, select the mode manually.
3. Use the "Previous Song", "Next Song", and "Play/Pause" buttons on the front panel or remote to control playback.

5.5 FM Radio Operation

1. Ensure the FM antenna is properly connected.
2. Select "FM" mode using the "MODE" button.
3. Use the remote control to scan for stations or manually tune.

5.6 Adjusting Audio

- **Volume:** Rotate the large "VOLUME" knob to adjust the overall sound level.
- **Bass/Treble:** Use the "BASS" and "TREBLE" knobs to fine-tune the low and high frequencies of the audio.
- **Microphone Volume:** Adjust the "MIC VOL" knob to control the volume of connected microphones.

5.7 Karaoke Function

Connect one or two microphones to the MIC1 and MIC2 jacks. Adjust the microphone volume using the "MIC VOL" knob. The amplifier is suitable for karaoke use in various settings.



Image 5.3: The AK45 amplifier supports karaoke, allowing users to connect microphones for vocal performances.

6. SPECIFICATIONS

Feature	Specification
Model Number	AK45
Brand	NEOHIPO
Peak Power Output	300W + 300W
Rated Power Output	40W + 40W
Speaker Impedance	4-16 Ohms
Connectivity Technology	Auxiliary, Bluetooth 5.0, RCA, USB
Input Sources	RCA, 1/4" Microphone (x2), USB, SD Card, FM Radio
Audio Output Mode	Stereo (2 Channel)
Bluetooth Range	Up to 30 feet (10 meters) unobstructed; 15 feet (5 meters) for TV/PC
Special Features	Built-In Bluetooth, Compact Design, Volume/Bass/Treble Control, Karaoke Function
Product Dimensions	7.1"D x 5.5"W x 2.5"H (18.03 cm x 13.97 cm x 6.35 cm)
Item Weight	860g (approx. 1.9 lbs)
Color	Black

7. MAINTENANCE

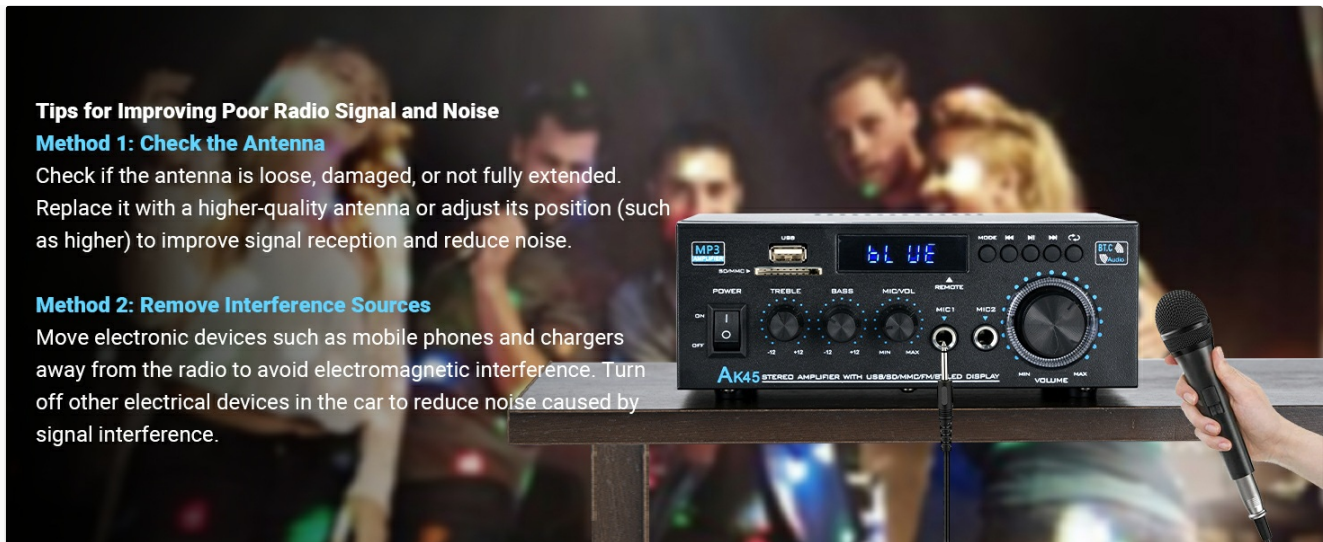
To ensure the longevity and optimal performance of your NEOHIPO AK45 amplifier, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block the ventilation openings on the top or sides of the unit. Avoid placing it in enclosed spaces that can trap heat.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.
- **Power:** Disconnect the power cable from the wall outlet during electrical storms or when the unit is left unattended for long periods.

8. TROUBLESHOOTING

If you encounter issues with your AK45 amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet not working	Ensure power cable is securely connected to both the amplifier and a working power outlet.
No sound output	Incorrect input mode selected; Speakers not connected properly; Volume too low; Mute activated	Select the correct input mode. Check speaker connections and polarity. Increase volume. Ensure unit is not muted.
Poor FM radio reception	Antenna not properly connected or positioned; Electromagnetic interference	Check if the FM antenna is securely connected and fully extended. Adjust its position for better signal. Move electronic devices (e.g., mobile phones, chargers) away from the amplifier to reduce interference.
Bluetooth connection issues	Device out of range; Interference; Not in pairing mode	Ensure your device is within 30 feet (10 meters) of the amplifier (15 feet/5 meters for TV/PC). Reduce obstructions. Ensure the amplifier is in Bluetooth mode and your device is searching for it.
Loud 'pop' sound on power-up	Normal operational characteristic for some amplifiers	This may be a normal characteristic. Ensure speakers are connected correctly.
FM volume too high/distorted on startup	High gain in FM mode	Quickly adjust the volume knob down when powering on if starting in FM mode. Adjust FM volume carefully.



Tips for Improving Poor Radio Signal and Noise

Method 1: Check the Antenna

Check if the antenna is loose, damaged, or not fully extended. Replace it with a higher-quality antenna or adjust its position (such as higher) to improve signal reception and reduce noise.

Method 2: Remove Interference Sources

Move electronic devices such as mobile phones and chargers away from the radio to avoid electromagnetic interference. Turn off other electrical devices in the car to reduce noise caused by signal interference.

Image 8.1: Guidelines for improving FM radio signal reception and reducing noise, emphasizing antenna checks and minimizing electromagnetic interference.

9. WARRANTY AND SUPPORT

The NEOHIPO AK45 Stereo Receiver & Amplifier comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use.

For technical assistance, warranty claims, or any product-related inquiries, please contact NEOHIPO customer service. Refer to the contact information provided on the product packaging or the official NEOHIPO website.