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Onkyo TX-NR797

Onkyo TX-NR797 AV Receiver User Manual

Model: TX-NR797

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Onkyo TX-NR797 Smart AV 9.2 Channel Receiver. Please read this manual thoroughly before using the receiver and keep it for future reference. The Onkyo TX-NR797 is a high-performance AV receiver designed to deliver an immersive audio-visual experience, supporting advanced formats like 4K Ultra HD, Dolby Atmos, DTS:X, and IMAX Enhanced. It features 220 watts per channel and includes AccuEQ room calibration for optimized sound.

2. IMPORTANT SAFETY INSTRUCTIONS

WARNING: RISK OF ELECTRIC SHOCK. DO NOT OPEN.

- Do not expose this appliance to rain or moisture.
- Do not remove the cover or back panel. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the appliance.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this appliance during lightning storms or when unused for long periods of time.

3. SETUP AND CONNECTIONS

Before making any connections, ensure the receiver is powered off and unplugged from the AC outlet.

3.1 Rear Panel Overview

The following image illustrates the rear panel of the Onkyo TX-NR797 receiver, highlighting various input and output terminals.



Image Description: This image displays the rear panel of the Onkyo TX-NR797 AV Receiver. From left to right, top to bottom, it features:

- **AC INLET:** For power cord connection.
- **HDMI OUT:** Two ports (MAIN, SUB/ZONE 2) supporting 4K/HDCP 2.2, with ARC on MAIN.
- **HDMI IN:** Six ports (BD/DVD, GAME, CBL/SAT, STRM BOX, PC) supporting 4K/HDCP 2.2.
- **ETHERNET:** For network connection.
- **USB (5V/1A):** For USB devices.
- **DIGITAL IN (ASSIGNABLE):** Coaxial (BD/DVD) and Optical (TV) audio inputs.
- **TUNER:** AM and FM antenna connections.
- **VIDEO IN (ASSIGNABLE):** Component (BD/DVD) and Composite (CBL/SAT, STRM BOX) video inputs.
- **RS232:** For control systems.
- **IR IN/OUT:** For infrared remote control extenders.
- **12V TRIGGER OUT:** For external device control.
- **AUDIO IN:** Multiple analog RCA inputs (PHONO, TV, CD, STRM BOX, CBL/SAT, GAME, BD/DVD).
- **SPEAKER TERMINALS:** Binding posts for FRONT (L/R), CENTER, SURROUND (L/R), HEIGHT 1 (L/R), SURROUND BACK (L/R).
- **SUBWOOFER PRE OUT:** Two RCA outputs for subwoofers.
- **ZONE 2/ZONE B LINE OUT:** RCA outputs for multi-room audio.
- **GND:** Ground terminal.
- **MODEL NO. TX-NR797:** Product identification.

3.2 Speaker Connections

The TX-NR797 supports 5.2.2-channel Dolby Atmos and DTS:X configurations, as well as 9.2 channel setups. Ensure correct polarity (+ to + and - to -) when connecting speakers.

1. Connect your front speakers to the **FRONT L/R** terminals.
2. Connect your center speaker to the **CENTER** terminal.
3. Connect your surround speakers to the **SURROUND L/R** terminals.
4. For Dolby Atmos/DTS:X, connect height speakers to the **HEIGHT 1 L/R** terminals.
5. For 7.1 or 9.2 channel setups, connect additional speakers to **SURROUND BACK L/R** or **HEIGHT 2 (Zone 3)** terminals as needed.
6. Connect powered subwoofers to the **SUBWOOFER PRE OUT** terminals using RCA cables.

CAUTION: Speaker impedance should be between 4 and 16 ohms per speaker. Refer to the instruction manual for correct settings if using bi-amp or Zone 2/3 configurations.

3.3 HDMI Connections

Use high-speed HDMI cables for optimal performance, especially for 4K/HDR content.

1. Connect your display (TV/Projector) to the **HDMI OUT MAIN** terminal. If your display supports Audio Return Channel (ARC), ensure this feature is enabled on both the receiver and your display.
2. Connect your source devices (Blu-ray player, game console, cable box, streaming device, PC) to the **HDMI IN 1-6** terminals.
3. The **HDMI OUT SUB/ZONE 2** can be used for a second display in another room or a second display in the main room.

3.4 Audio and Other Connections

1. For digital audio sources without HDMI, use the **DIGITAL IN (COAXIAL/OPTICAL)** ports.
2. For analog audio sources (e.g., CD player, turntable), use the **AUDIO IN RCA** jacks. Connect a turntable to the **PHONO** input and ensure the ground wire is connected to the **GND** terminal.
3. Connect an Ethernet cable to the **ETHERNET** port for network features and firmware updates.
4. Use the **USB** port for media playback from USB storage devices.
5. Connect the supplied AM/FM antennas to the **TUNER** terminals for radio reception.

3.5 Power Connection

After all other connections are made, connect the power cord to the **AC INLET** on the rear panel and then to a wall outlet.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

1. **Power On/Off:** Press the **POWER** button on the front panel or remote control.
2. **Input Selection:** Use the **INPUT SELECTOR** knob on the front panel or the corresponding buttons on the remote control to choose your desired source (e.g., BD/DVD, CBL/SAT, GAME).
3. **Volume Control:** Adjust the **MASTER VOLUME** knob on the front panel or the **VOLUME +/-** buttons on the remote control.

4.2 Sound Calibration (AccuEQ)

For optimal sound performance, it is recommended to perform the AccuEQ Room Calibration. This system automatically detects speaker connections, measures distances from the listening position, and sets appropriate sound levels and crossover frequencies.

1. Connect the supplied setup microphone to the **SETUP MIC** jack on the front panel.
2. Follow the on-screen instructions displayed on your TV to initiate and complete the calibration process.

4.3 Network Features and Streaming

The TX-NR797 supports various network features for enhanced connectivity and streaming.

- **AirPlay 2:** Stream audio directly from Apple devices.
- **Bluetooth:** Connect and stream audio wirelessly from compatible devices.
- **Multiroom Audio:** Utilize built-in technologies for distributing audio to multiple rooms.
- **Voice Control:** Compatible with Amazon Alexa and Vera for hands-free control.

Ensure the receiver is connected to your home network via Ethernet or Wi-Fi (if applicable) to access these features. Refer

to the on-screen menu for network setup.

5. MAINTENANCE

- **Cleaning:** Wipe the exterior surfaces with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure adequate ventilation around the receiver to prevent overheating. Do not block ventilation openings.
- **Power Cord:** Regularly check the power cord for any damage. If damaged, discontinue use and contact qualified service personnel.

6. TROUBLESHOOTING

If you experience issues with your receiver, consult the following common troubleshooting steps.

No Power

- Check if the power cord is securely connected to both the receiver and the wall outlet.
- Ensure the wall outlet is functional by plugging in another device.

No Sound

- Verify that the correct input source is selected on the receiver.
- Check speaker connections for proper polarity and secure fit.
- Ensure the volume is not muted or set to a very low level.
- Confirm that your speakers are properly configured in the receiver's setup menu.

No Video

- Ensure HDMI cables are securely connected between the source, receiver, and TV.
- Verify the correct HDMI input is selected on your TV.
- Check the HDMI output settings on your source device.

7. SPECIFICATIONS

Feature	Detail
Brand	Onkyo
Model	TX-NR797
Power Output	220 watts per Channel
Surround Sound Channel Configuration	5.2 Channel, 9.2 Channel
Audio Encoding	Dolby Atmos, DTS:X, IMAX Enhanced
Video Support	4K/60p, HDR (HDR10, HLG, Dolby Vision, BT.2020)
Total HDMI Ports	7 (6 In, 2 Out)
Connectivity Technology	Bluetooth, USB, Ethernet (Network)

Feature	Detail
Special Features	Multiroom, eARC, AirPlay 2, AccuEQ, Dolby Atmos Height Virtualizer, DTS Virtual:X
Controller Type	Amazon Alexa, Vera compatible
Compatible Devices	Speakers, various audio/video sources

8. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the warranty card included with your product or visit the official Onkyo website.

Online Support: www.onkyo.com/support