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ONKYO R-810M

ONKYO R-810M FM/AM Stereo Tuner Amplifier User Manual

Model: R-810M

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your ONKYO R-810M FM/AM Stereo Tuner Amplifier. Please read this manual thoroughly before using the unit and retain it for future reference.

2. SAFETY INFORMATION

To prevent electric shock, fire, or damage to the unit, observe the following safety precautions:

- **Power Source:** Connect the unit only to an AC 100V, 50/60Hz power supply.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids, such as vases, on the unit.
- **Foreign Objects:** Do not insert any metallic objects or flammable materials into the unit.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the unit on a stable, level surface away from direct sunlight, heat sources, and excessive dust or vibrations.

3. PRODUCT OVERVIEW

The ONKYO R-810M is an integrated FM/AM stereo tuner amplifier designed to deliver high-quality audio performance. It features multiple audio inputs and a built-in tuner for radio reception.

Front Panel

The front panel provides access to essential controls and indicators.



Image: Front view of the ONKYO R-810M FM/AM Stereo Tuner Amplifier. This image displays the unit's front panel, including the central display, various control knobs for volume, bass, and treble, and buttons for input selection and tuner functions.

Rear Panel

The rear panel houses all input and output terminals for connecting external audio components and antennas. (Detailed description of rear panel connections would typically be provided here, including speaker terminals, audio input jacks, and antenna terminals.)

4. SETUP

4.1 Connecting Speakers

1. Ensure the amplifier is turned off and unplugged from the power outlet.
2. Connect your speakers to the speaker terminals on the rear panel. Match the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) to the negative (-).
3. Ensure proper impedance matching (4Ω or 8Ω speakers are compatible).

4.2 Connecting Audio Sources

Use appropriate RCA audio cables to connect your audio components to the corresponding input jacks on the rear panel.

- **CD Player:** Connect to the 'CD' input.
- **Other Line-Level Devices:** Connect to 'LINE-1' or 'LINE-2' inputs.
- **Tape Deck:** Connect to the 'TAPE' input (for playback and recording).
- **MD Player:** Connect to the 'MD' input.

4.3 Connecting Antennas

- **FM Antenna:** Connect a 75Ω FM antenna to the FM antenna terminal. For optimal reception, use an outdoor FM antenna.
- **AM Antenna:** Connect the supplied AM loop antenna to the AM antenna terminals. Position the antenna for best reception.

4.4 Power Connection

After all other connections are made, plug the power cord into a suitable AC 100V, 50/60Hz wall outlet.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **POWER** button on the front panel or the remote control to turn the unit on or off.

5.2 Volume Control

Rotate the **VOLUME** knob on the front panel or use the **VOLUME +/-** buttons on the remote control to adjust the sound level.

5.3 Input Source Selection

Press the corresponding input selector buttons (CD, LINE-1, LINE-2, TAPE, MD, FM/AM) on the front panel or remote control to select your desired audio source.

5.4 FM/AM Tuning

- Press the **FM/AM** button to select the desired band.
- Use the **TUNING** buttons (or knob) to manually tune to a station.
- For automatic tuning, press and hold the **TUNING** button until the tuner starts scanning. It will stop at the next available station.

5.5 Tone Control

Adjust the **BASS** and **TREBLE** knobs on the front panel to customize the sound to your preference.

- **Bass:** Adjusts low-frequency sounds (100Hz \pm 10dB).
- **Treble:** Adjusts high-frequency sounds (10kHz \pm 10dB).

5.6 Timer Functions

The R-810M includes various timer modes:

- **Weekday:** Sets a timer for weekdays.
- **Weekend:** Sets a timer for weekends.
- **Once:** Sets a one-time timer.
- **Rec:** Timer for recording.
- **Sleep:** Sets the unit to turn off automatically after a set period.

Refer to the detailed instructions in the full manual for setting specific timer functions.

6. MAINTENANCE

6.1 Cleaning

Wipe the unit with a soft, dry cloth. For stubborn dirt, dampen the cloth with a mild detergent solution and wipe gently, then dry with a clean cloth. Do not use abrasive cleaners, alcohol, benzene, or thinners, as these may damage the finish.

6.2 General Care

- Keep the unit away from direct sunlight and heat sources.
- Ensure proper ventilation to prevent overheating.
- Avoid placing heavy objects on the unit.

7. TROUBLESHOOTING

If you experience problems with your R-810M, consult the following table before seeking professional service.

Problem	Possible Cause	Solution
No power	Power cord unplugged; Power outlet faulty	Check power cord connection; Try a different outlet
No sound	Incorrect input selected; Speaker wires disconnected; Volume too low	Select correct input; Check speaker connections; Increase volume
Poor FM/AM reception	Antenna not connected or poorly positioned	Connect antenna properly; Adjust antenna position for best reception
Remote control not working	Batteries depleted; Obstruction between remote and unit	Replace batteries; Remove any obstructions

8. SPECIFICATIONS

Amplifier Section

- **Rated Output:** 33W + 33W (4Ω), 25W + 25W (8Ω)
- **Practical Max Output:** 50W + 50W (EIAJ, 4Ω)
- **Total Harmonic Distortion:** 0.1% (20Hz-20KHz, 8Ω, at rated output)
- **S/N Ratio:** 100dB (CD, etc.)
- **Frequency Response:** 2Hz-100KHz / +0, -3dB (CD)
- **Tone Control:**
 - Bass: 100Hz ±10dB
 - Treble: 10kHz ±10dB
- **Input Sources:** CD, LINE-1, LINE-2, TAPE, MD

Tuner Section

- **Receiving Frequency:**
 - FM: 76.0-108.0MHz
 - AM: 522-1629kHz
- **Sensitivity (FM):** 18.8dBf (2.4μV, 75Ω, S/N 50dB)
- **S/N Ratio (FM):** 79dB (MONO), 74dB (STEREO)
- **Distortion (FM):** 0.1% (MONO), 0.2% (STEREO)
- **Stereo Separation (FM):** 45dB (1kHz)

General

- **Power Voltage/Frequency:** AC100V, 50/60Hz
- **Power Consumption:** 80W
- **Timer Modes:** Weekday, Weekend, Once, Rec, Sleep
- **Control Method:** Remote
- **Dimensions (W x H x D):** Approximately 35.6 x 12 x 29.2 cm

- **Weight:** Approximately 5.18 kg

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact your local ONKYO dealer or service center. For technical support, visit the official ONKYO website or contact their customer service department in your region.