

## Onkyo FR-7GX

# ONKYO FR-7GX CD/MD Tuner Amplifier

## User Manual

### 1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your ONKYO FR-7GX CD/MD Tuner Amplifier. Please read this manual thoroughly before using the unit and keep it for future reference. The FR-7GX is a versatile audio system featuring a CD player, MiniDisc (MD) recorder/player with MDLP support, and an AM/FM tuner, designed to deliver high-quality audio performance.

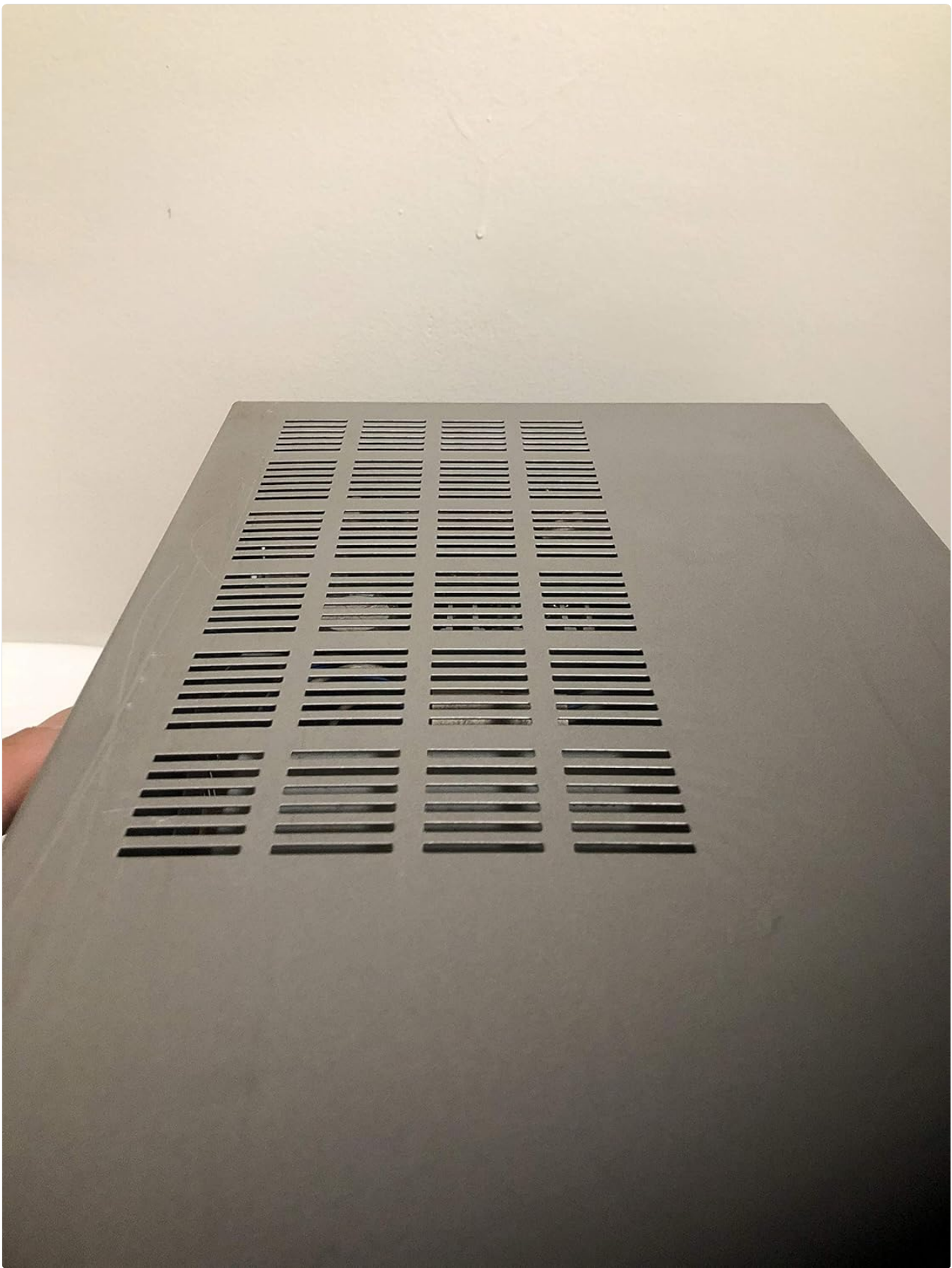


**Figure 1.1:** Front view of the ONKYO FR-7GX CD/MD Tuner Amplifier. This image shows the main unit with its silver finish, the CD tray, MD slot, display panel, and various control knobs and buttons, including the large volume dial on the right.

## 2. SAFETY INFORMATION

To ensure safe operation and prevent damage, observe the following precautions:

- **Power Source:** Connect the unit only to an AC 100V, 50/60Hz power supply.
- **Ventilation:** Do not block ventilation openings. Ensure adequate space around the unit for proper airflow. The top panel features ventilation grilles (see Figure 2.1).
- **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 foreign objects into the unit's openings.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Speaker Impedance:** Ensure connected speakers have an impedance between 4Ω and 16Ω. Connecting speakers with lower impedance can damage the amplifier.



**Figure 2.1:** Top view of the ONKYO FR-7GX, highlighting the ventilation grilles. These grilles are crucial for heat dissipation and should not be obstructed.

## **3. SETUP**

### **3.1 Unpacking**

Carefully remove the unit from its packaging. Retain the packing materials for future transport or storage.

### 3.2 Connecting Components

Before making any connections, ensure the unit is turned off and unplugged from the power outlet.

- **Speakers:** Connect your speakers to the SPEAKER terminals on the rear panel. Observe correct polarity (+ to + and - to -). The FR-7GX supports speakers with an impedance of 4Ω to 16Ω.
- **Antenna:** Connect the supplied FM and AM antennas to their respective terminals for radio reception.
- **External Audio Devices:** Use RCA cables to connect external audio sources (e.g., cassette deck, turntable with pre-amp) to the LINE IN, TAPE IN, or CDR IN terminals.
- **Optical Digital Output:** If connecting to a digital recording device or DAC, use an optical cable with the DIGITAL OUT terminal.
- **Subwoofer Output:** Connect an active subwoofer to the SUBWOOFER PRE-OUT terminal for enhanced bass.



**Figure 3.1:** Rear view of the ONKYO FR-7GX, illustrating the various connection terminals including speaker outputs, analog inputs/outputs, digital output, and antenna connections. Proper connection of these terminals is essential for the unit's functionality.

### 3.3 Power Connection

After all audio connections are made, plug the power cord into a suitable AC outlet.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Basic Playback (CD/MD)

1. Press the **STANDBY/ON** button to power on the unit.
2. Select the desired source (CD or MD) using the **INPUT** selector.
3. **For CD:** Press the **OPEN/CLOSE** button to open the CD tray. Place a CD on the tray and press **OPEN/CLOSE** again to close it. The unit supports CD-R/RW playback.
4. **For MD:** Insert a MiniDisc into the MD slot.
5. Press the **PLAY** button to start playback.
6. Adjust the volume using the large **VOLUME** knob. The unit features a motor-driven volume for precise control.



**Figure 4.1:** Front view of the ONKYO FR-7GX with the CD tray extended. This illustrates the mechanism for loading compact discs for playback.

## 4.2 Tuner Operation (FM/AM)

1. Select the TUNER input.
2. Use the tuning controls to select your desired FM or AM station. The unit supports FM wideband.
3. Utilize the FM auto preset function to store up to 30 stations.

## 4.3 Recording (CD to MD / External Source to MD)

The FR-7GX features high-speed ATRAC DSP and 24-bit processing for high-quality digital recording.

- **CD to MD Dubbing:** Insert a blank MD. Select CD as the source. Press the **CD DUBBING** button. The unit supports 2x speed CD to MD dubbing. The DLA Link function automatically sets the digital recording level.
- **External Source to MD:** Select the external input (LINE, TAPE, or CDR). Insert a blank MD. Press the **REC** button to start recording.
- **Synchro Recording:** Use the synchro recording function to automatically start recording when the source begins playback.
- **Dubbing Mode "FADE":** This mode allows for fade-in/fade-out effects during dubbing.
- **MD Digital Recording Level Adjustment:** Fine-tune recording levels for optimal sound quality.

#### 4.4 MDLP and Group Functions

The FR-7GX supports MDLP (MiniDisc Long Play) modes (LP2 and LP4) for extended recording times, and Group functions for organizing tracks on an MD.

- **MDLP:** When recording, select LP2 or LP4 mode to extend recording capacity up to approximately 320 minutes on an 80-minute disc (LP4 mode).
- **Group Function:** Use the **GROUP** button to create and manage groups of tracks on your MD, allowing for easier navigation and playback of specific sections.

#### 4.5 Advanced Playback and Editing

- **Program Playback:** Program up to 25 songs for both CD and MD playback in a desired order.
- **Chain Repeat:** Continuously repeat playback between CD and MD.
- **MD Editing:** Use the **DIVIDE** and **COMBINE** functions to edit tracks on an MD. The MD editing rehearsal function allows you to confirm edit points before execution.
- **MULTIJOG Dial:** This dial simplifies track selection and title input.

## 5. MAINTENANCE

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### 5.1 Cleaning the Unit

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 can damage the finish.

### 5.2 Disc Care

Handle CDs and MDs by their edges. Keep them clean and free of dust and fingerprints. Store discs in their cases when not in use.

## 6. TROUBLESHOOTING

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If you experience problems with your unit, consult the following table before seeking service.

Problem	Possible Cause	Solution
No power	Power cord not securely plugged in.	Ensure the power cord is firmly connected to the unit and the wall outlet.
No sound	Incorrect input selected; Speakers not connected or connected incorrectly; Volume too low.	Select the correct input source. Check speaker connections and polarity. Increase volume.
CD/MD not playing	Disc inserted incorrectly; Disc is dirty or scratched; Disc format not supported.	Reinsert disc correctly. Clean or replace disc. Ensure disc is a standard audio CD or MD.
Poor radio reception	Antenna not connected or poorly positioned.	Connect the antenna securely. Adjust antenna position for better reception.
MD recording issues	Blank MD not inserted; MD is full or protected; Incorrect recording settings.	Insert a blank, unprotected MD. Check recording level and source selection.

## 7. SPECIFICATIONS

### Amplifier Section:

- **Practical Maximum Output:** 20W + 20W (4Ω, JEITA)
- **Rated Output:** 14W + 14W (4Ω, JEITA)
- **Input Sensitivity/Impedance:** 150mV/50kΩ (LINE, TAPE, CDR)
- **Frequency Response:** 10Hz ~ 100kHz / ±3dB (LINE)
- Features WRAT (Wide Range Amplifier Technology) and 2-stage Super Bass circuit.

### Tuner Section:

- **Reception Frequency:** FM 76.00 ~ 108.00MHz, AM 522 ~ 1629kHz
- **Frequency Response:** 30Hz ~ 15kHz (±1.5dB)

### CD Section:

- **D/A Converter:** Single-bit method
- **Frequency Response:** 10Hz ~ 20kHz (±3.0dB)
- Supports CD-R/RW playback.

### MD Section:

- **Recording/Playback Time:** Max approx. 320 minutes (using 80-minute disc in LP4 mode)
- **Frequency Response:** 10Hz ~ 20kHz (±3.0dB, playback)
- Features High-speed ATRAC DSP & 24bit processing, MDLP, and Group functions.

## General:

- **Power Consumption:** 48W
- **Dimensions (W×H×D):** 205mm × 154mm × 354mm
- **Mass:** 5.3kg
- **Inputs:** Analog x3 (LINE, TAPE, CDR)
- **Outputs:** Analog x2 (TAPE, CDR), Optical Digital x1, Subwoofer Output x1
- **Features:** Aluminum front panel, Slit duct for improved air vibration, DLA Link, Program timer (up to 4 modes).

## 8. WARRANTY AND SUPPORT

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This ONKYO product is covered by a limited warranty. Please refer to the warranty card included with your purchase for specific terms and conditions. For technical support, service, or inquiries about replacement parts, please contact your authorized ONKYO dealer or visit the official ONKYO website for customer service contact information.

**Manufacturer Reference:** FR-7GX