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## Onkyo FR-N7EX

# Onkyo FR-N7EX CD/MD Tuner Amplifier User Manual

## INTRODUCTION

Thank you for purchasing the Onkyo FR-N7EX CD/MD Tuner Amplifier. This unit is designed to provide high-quality audio playback from various sources, including CDs, MiniDiscs (MDs), and USB devices, along with FM/AM radio reception. This manual will guide you through the setup, operation, and maintenance of your new audio system to ensure optimal performance and longevity.

Please read this manual thoroughly before using the unit and keep it for future reference.

## SAFETY INFORMATION

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

- Do not expose this appliance to rain or moisture.
- Do not remove the cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.
- Ensure proper ventilation. Do not block ventilation openings.
- Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods.
- Connect the power cord to an AC 100V, 50/60Hz outlet.

## SETUP

Follow these steps to set up your Onkyo FR-N7EX system.

### 1. Speaker Connection

Connect your speakers to the speaker terminals on the rear panel. Ensure correct polarity (positive to positive, negative to negative) for each speaker. The unit supports speakers with an impedance of 4 to 16 ohms.



Figure 1: Rear panel connections, including speaker terminals (red and black clips) and various audio input/output ports.

## 2. Antenna Connection

Connect the supplied FM and AM antennas to their respective terminals on the rear panel for radio reception.

## 3. Audio Source Connections

The FR-N7EX offers various input options:

- **Digital Input:** One optical digital input (PCM signal only) for connecting digital audio sources.
- **Analog Inputs:** Two analog audio inputs (RCA) for connecting external devices like a tape deck or other audio players.
- **Front Line Input:** A stereo mini-jack on the front panel for convenient connection of portable audio devices.
- **USB Terminal:** A front USB terminal for playing MP3/WMA files from a USB memory device and recording MP3 files.

## 4. Power Connection

After all other connections are made, plug the power cord into a suitable wall outlet.

## OPERATING INSTRUCTIONS

This section details the basic operation of your FR-N7EX unit.



Figure 2: Front panel controls for playback, recording, and sound adjustments.

## 1. Power On/Off

Press the **I/O STANDBY** button on the front panel to turn the unit on or off.

## 2. Source Selection

Use the **INPUT/CURSOR** buttons or the remote control to select the desired input source (CD, MD, TUNER, USB, LINE IN, etc.).

## 3. CD Playback

- Insert a music CD or an MP3/WMA data disc into the CD slot.
- Select the CD source.
- Press the **PLAY** button to start playback.

## 4. MD Playback

- Insert a MiniDisc into the MD slot.
- Select the MD source.
- Press the **PLAY** button to start playback. The unit supports MDLP modes (SP, LP2, LP4, Mono).

## 5. USB Playback

- Insert a USB memory device containing MP3/WMA files into the front USB port.
- Select the USB source.
- Use the **MULTI JOG** dial and **MENU** buttons to navigate and select files for playback.

## 6. Tuner Operation

- Select the TUNER source.

- Use the tuning buttons to find your desired FM or AM station.
- The unit features 30 station memory presets and FM auto preset functionality.

## 7. Recording Functions (Dubbing)

The FR-N7EX supports various dubbing options:

- **CD to MD:** Record from CD to MD at up to 4x speed. The DLA Link (Digital Rec Level Adjustment) function automatically sets the optimal recording level.
- **CD to USB:** Record music CDs to MP3 files on a USB memory device.
- **MD to USB:** Transfer content from MD to USB.
- **USB to MD:** Record from USB to MD.
- **Simultaneous Recording:** Record from music CD to both MD and USB simultaneously.
- **Digital Recording Volume:** Adjust the recording level for digital MD recordings.

## 8. Sound Adjustment

- **Volume Control:** Adjust the main volume using the large rotary knob.
- **BASS/TREBLE:** Use these controls to adjust the low and high frequencies of the audio output.
- **S.BASS:** Activate the S.BASS function for enhanced deep bass response.

## 9. MD Group Function

Utilize the MD Group function to organize multiple tracks on a MiniDisc for easier navigation and management.

## MAINTENANCE

Proper maintenance ensures the longevity and performance of your unit.

- **Cleaning the Unit:** Wipe the exterior of the unit with a soft, dry cloth. For stubborn stains, use a cloth lightly dampened with a mild detergent solution, then wipe dry. Do not use abrasive cleaners, alcohol, benzene, or thinners, as these can damage the finish.
- **CD/MD Drive Care:** Avoid touching the lens inside the CD player. Use a commercially available CD/MD lens cleaner if playback issues arise due to dust.
- **Ventilation:** Ensure that the ventilation openings on the top and rear of the unit are not blocked to prevent overheating.

## TROUBLESHOOTING

If you encounter problems with your FR-N7EX, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
No power	Power cord not connected securely.	Check power cord connection to the unit and wall outlet.
No sound	Volume is too low or muted. Speakers not connected correctly. Incorrect input source selected.	Increase volume. Check speaker connections and polarity. Select the correct input source.

Problem	Possible Cause	Solution
CD/MD does not play	Disc inserted incorrectly. Disc is dirty or scratched.	Reinsert disc correctly. Clean or replace disc.
USB device not recognized	USB device not formatted correctly or incompatible.	Ensure USB device is formatted to FAT16/FAT32. Try a different USB device.
Poor radio reception	Antenna not connected or positioned poorly.	Connect antennas securely. Adjust antenna position for better reception.

If the problem persists after trying these solutions, please contact Onkyo customer support.

## SPECIFICATIONS

The following are the technical specifications for the Onkyo FR-N7EX CD/MD Tuner Amplifier:

Feature	Specification
Rated Output Power	14W + 14W (8Ω, 40Hz–20kHz, 0.4% THD, 2ch driven) 19W + 19W (4Ω, 1kHz, 0.4% THD, 2ch driven)
Practical Maximum Output	26W + 26W (4Ω, JEITA)
Amplifier Total Harmonic Distortion	0.4% (1kHz, 1W output)
Amplifier Frequency Response	10Hz–100kHz (TAPE, ±3dB)
Amplifier S/N Ratio	100dB (LINE, IHF-A)
Tone Control Max. Change	BASS: ±8dB/80Hz TREBLE: ±10dB/10kHz S.BASS1: +3dB/80Hz S.BASS2: +7dB/80Hz
CD Section Frequency Response	10Hz–20kHz
MD Section Audio Frequency Response	10Hz–20kHz
MD Recording/Playback Time	Max. approx. 5 hours 20 minutes (using 80-minute disc in LP4 mode)
Tuner Reception Range	FM: 76.0–90.0MHz AM: 522–1629kHz
Speaker Impedance	4–16Ω

Feature	Specification
Power Consumption	60W (Electrical Appliance and Material Safety Law technical standards)
Standby Power Consumption	0.2W
Dimensions (W x H x D)	215 x 142 x 349 mm (8.5 x 5.6 x 13.7 inches)
Weight	5.1 kg (11.2 lbs)
Audio Input Terminals	Digital x1 (Optical, PCM signal only) Analog x2 Stereo Mini-jack (front) x1
Audio Output Terminals	Analog x1 Subwoofer Pre-out x1
USB Terminal (Front)	1 (Playback: MP3/WMA, Recording: MP3)

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the warranty card included with your product or visit the official Onkyo website. Keep your purchase receipt as proof of purchase for warranty claims.

If you require technical assistance or have questions not covered in this manual, please contact Onkyo customer service.