

## FiiO TT13

# FiiO TT13 Fully Automatic Vinyl Stereo Turntable Instruction Manual

Model: TT13

## 1. PRODUCT OVERVIEW

The FiiO TT13 is a fully automatic vinyl stereo turntable designed for convenient and high-fidelity audio playback. It features a robust analog audio architecture, a powerful built-in phono preamp, and a durable aluminum construction. This manual provides essential information for setting up, operating, and maintaining your turntable.



Image: The FiiO TT13 turntable with its dust cover open, showcasing a vinyl record placed on the platter. The turntable is black with silver accents.

# Time passes, But nostalgia remains

From the early to mid-20th century, vinyl records swept the world with their unique charm. Though music has changed over the decades, their allure has never faded.

Now, vinyl records are more than just a medium for music—they represent a lifestyle. Join us with the FiiO TT13, as we travel through the tunnel of time to relive those classic melodies.



Image: The FiiO TT13 turntable in a warm, dimly lit room, with a record spinning on its platter, highlighting its aesthetic appeal for vinyl enthusiasts.

## 2. UNPACKING AND INITIAL SETUP

Carefully remove all components from the packaging. Ensure all protective materials are removed before assembly. The turntable includes a power cable and an RCA cable for audio output.

### 2.1 Installing the Platter and Drive Belt

1. Place the die-cast aluminum platter onto the spindle.
2. Locate the drive belt, typically found pre-installed or separately. Carefully stretch the drive belt over the motor pulley.
3. Rotate the platter a few times manually to ensure the belt is properly seated and not twisted.

### 2.2 Tonearm Setup

The FiiO TT13 features a fully automatic tonearm, simplifying operation. However, initial setup of the counterweight and anti-skating may be required for optimal performance and record longevity.

Your browser does not support the video tag.

Video: A detailed guide on setting up the tonearm, including counterweight and anti-skating adjustments, for a turntable. This video is provided by Fluance Audio (Seller).

Your browser does not support the video tag.

Video: Instructions on how to set up the tonearm for a Victrola Premiere Record Player. This video is provided by INNOVATIVE TECHNOLOGY ELECTRONICS, LLC (Vendor).

## 2.3 Connecting to Audio System

The TT13 features a built-in phono preamp, allowing direct connection to powered speakers or an amplifier's line input. Use the provided RCA cable to connect the turntable's ANALOG OUT to your audio system's input.

### External balance adjustment More balanced sound

To address the imbalance in the volume between the left and right channels in analog circuits, the TT13 employs an external adjustable balance potentiometer. This allows users to adjust the volume of the left and right channels for a more balanced sound.



Image: A close-up view of the rear panel of the FiiO TT13 turntable, highlighting the 'ANALOG OUT' port and the external balance adjustment knob.

## 2.4 Power Connection

Connect the power adapter to the DC IN 12V port on the rear of the turntable, then plug it into a wall outlet.

The TT13 supports a wide AC ~100-240V voltage range.

## DC/AC dual power supply design

The TT13 features a built-in switching power supply, supporting a wide AC ~100-240V voltage range allowing it to be used globally. It also comes with the option to use an external DC power supply, supporting 12V-1A specifications for high-fidelity usage scenarios.

\*When both power supplies are simultaneously plugged in, AC power is



Image: The FiiO TT13 turntable with an external power supply unit connected, demonstrating its DC/AC dual power supply design.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Basic Playback

1. Place a vinyl record on the platter.
2. Select the appropriate speed (33 1/3 or 45 RPM) using the speed selector.
3. Press the **START** button. The tonearm will automatically lift, move to the beginning of the record, and begin playback.
4. To stop playback, press the **STOP** button. The tonearm will automatically lift, return to its rest position, and the platter will stop spinning.

## Fully automatic tonearm, Loop playback

Press the start button, and the TT13 will automatically lift the arm, move it to the start of the record, and begin playing. Press the stop button, and the TT13 will automatically raise the arm, stop playing, and return to its initial position. Unlike other turntables, the TT13 can automatically play on a loop. Making it so easy to use also ensures that less damage comes to the vinyl turntable and records due to mishandling.



Image: A close-up of the FiiO TT13 turntable's tonearm positioned over a record, with visible control buttons for automatic start, stop, and loop playback.

### 3.2 Loop Playback

The TT13 supports automatic loop playback. After a record finishes playing, the tonearm will automatically return to the start and replay the record. This feature can be activated or deactivated via the remote control.

### 3.3 Remote Control Functions

The included infrared remote control provides convenient access to various functions:

- **Power On/Off:** Turn the turntable on or off.
- **Start/Stop:** Initiate or halt record playback.
- **Repeat Play:** Toggle loop playback mode.
- **Lighting Brightness:** Adjust the intensity of the RGB & LED lights.
- **Tonearm Direction:** Fine-tune tonearm movement (for manual cueing or track selection).

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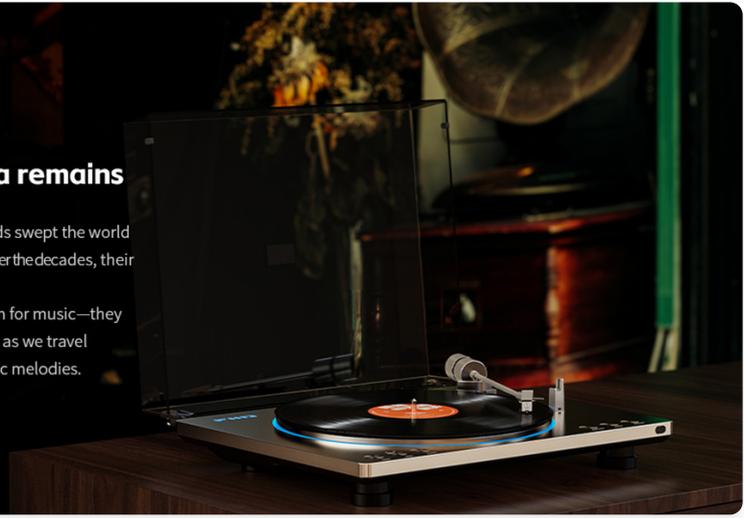


Image: A hand holding the FiiO TT13 infrared remote control, showing buttons for power, play/pause, repeat, and light adjustments.

### 3.4 Bluetooth Connectivity (Bluetooth Model Only)

The FiiO TT13 Bluetooth version supports aptX/aptX Low Latency/aptX HD/SBC Bluetooth transmission for wireless audio streaming to compatible devices. Refer to your device's manual for pairing instructions.

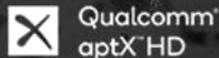
## aptX High-Res Bluetooth

### A wireless connection can also sound great

The TT13 Bluetooth version employs Qualcomm's Bluetooth platform and supports aptX/aptX Low latency/aptX HD/SBC Bluetooth transmission. Thanks to the carefully designed circuit architecture and unique signal processing, it is exceptionally low-noise.



SBC



\*The standard version does not support Bluetooth.

Image: A close-up of the FiiO TT13 turntable's surface, showing the FiiO logo and indicators for aptX High-Res Bluetooth support.

### 3.5 External Balance Adjustment

The turntable includes an external adjustable balance potentiometer to address any volume imbalance between the left and right analog channels. This allows for fine-tuning to achieve a more balanced sound output.

## Built-in powerful phono preamp

Built into the TT13 is a powerful, meticulously tuned phono preamp. The line output level can reach 800mV@1kHz 0dB, which is more powerful than similar products, and also with improved signal-to-noise ratio and reduced crosstalk - for a powerful sound. The built-in phono preamp eliminates the need to purchase a separate one, significantly reducing the cost of setting up a vinyl turntable system and can easily be paired with active speakers.

800mV@1kHz 0dB  
TT13

300mV@1kHz 0dB  
Other vinyl turntables



Image: A detailed view of the FiiO TT13 turntable's rear panel, showing the external balance adjustment knob, RCA line outputs, and a switch for phono/line output.

## 4. FEATURES AND TECHNOLOGY

- **Fully Automatic Tonearm:** Simplifies operation with one-touch play, pause, and automatic loop playback, protecting both the record player and vinyl records from mishandling.
- **Powerful Built-in Phono Preamp:** Delivers a line output level of 800mV@1kHz 0dB, offering superior signal-to-noise ratio and channel separation. This eliminates the need for an external phono preamp, allowing direct connection to powered speakers.
- **Analog Audio Architecture:** Utilizes two JRC5532 high-fidelity operational amplifiers in a two-stage amplification circuit, complemented by electrolytic capacitors and independent LDO power supplies for lower noise and pure analog sound.
- **All-Aluminum Alloy Panel:** The meticulously polished metal panel provides excellent anti-interference performance and robust shock absorption, minimizing environmental vibrations for stable audio quality. The unit weighs nearly 4kg.
- **Remote Control:** Allows control of power, playback, repeat, lighting brightness, and tonearm direction from a distance.
- **DC/AC Dual Power Supply:** Features a built-in switching power supply (100-240V) and an option for an external DC 12V-1A power supply for high-fidelity scenarios.
- **External Balance Adjustment:** A potentiometer allows users to adjust the volume balance between left and right channels.

## Specially-designed analog audio architecture

### Pure analog sound

Being a turntable, the TT13 features a fully analog audio architecture. It is equipped with two proven JRC5532 high-fidelity op-amps connected in series to form a two-stage amplification circuit. This ensures that each stage of the circuit operates within an ideal amplification range. Combined with multiple electrolytic capacitors and an independent LDO power supply, the result is reduced circuit noise for a purer and more analog sound.

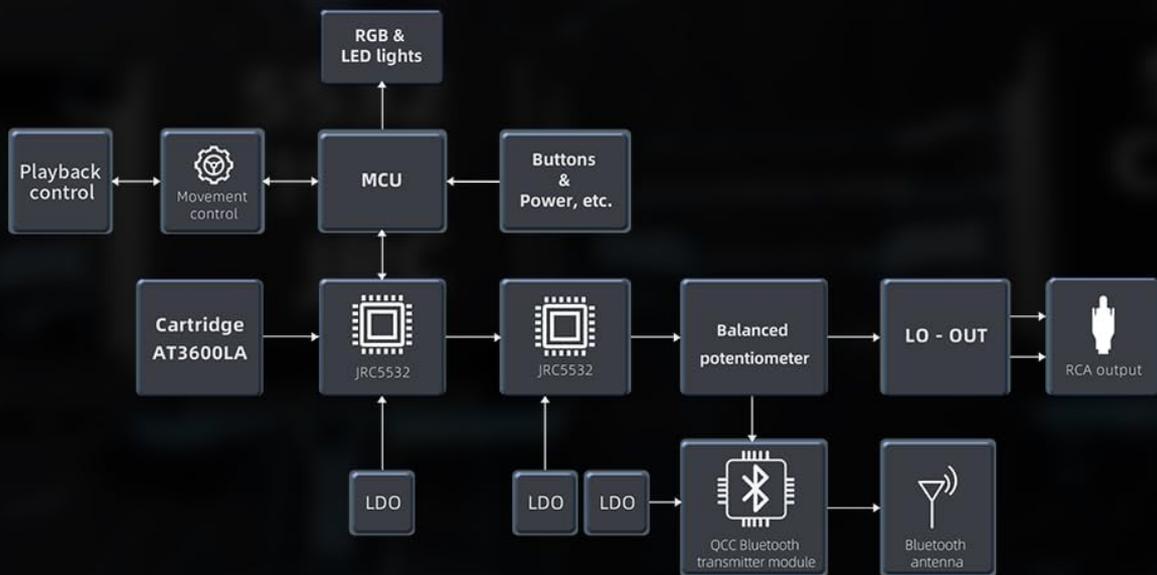


Image: A block diagram detailing the specially-designed analog audio architecture of the FiiO TT13, showing the signal path through JRC5532 op-amps and power management.

# Built-in powerful phono preamp

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800mV@1kHz 0dB

TT13

300mV@1kHz 0dB

Other vinyl turntables



Image: The FiiO TT13 turntable positioned between two white speakers, illustrating its powerful built-in phono preamp that allows direct connection to active speakers.

## 5. MAINTENANCE

### 5.1 Dust Cover

Always keep the dust cover closed when the turntable is not in use to protect it from dust and debris. Clean the dust cover with a soft, dry cloth.

### 5.2 Cleaning

- Use a soft, lint-free cloth to gently wipe the turntable's chassis and platter.
- Avoid using harsh chemicals or abrasive cleaners, as these can damage the finish.
- For the stylus, use a specialized stylus cleaning brush and fluid, following the manufacturer's instructions.

## 6. TROUBLESHOOTING

If you encounter any issues with your FiiO TT13 turntable, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the turntable and a working power outlet.
- **No Sound:** Verify that the RCA cables are correctly connected to your audio system's input. Check the input selection on your amplifier/receiver. Ensure the volume is turned up.
- **Skipping or Distorted Sound:** Check if the record is clean and free of dust. Ensure the tonearm's counterweight and anti-skating settings are correctly calibrated. Verify the record is placed flat on the platter.
- **Incorrect Speed:** Confirm that the correct speed (33 1/3 or 45 RPM) is selected for the record being played.
- **Bluetooth Pairing Issues (Bluetooth Model Only):** Ensure the turntable is in pairing mode and your receiving device is discoverable. Try restarting both devices.

If problems persist after attempting these steps, please contact FiiO customer support for further assistance.

## 7. SPECIFICATIONS

Feature	Specification
Brand	FiiO
Model Name	TT13
Item Model Number	TT13 Black Bluetooth
Manufacturer	FiiO
Material	Aluminum
Item Weight	12.76 pounds (5.8 Kilograms)
Package Dimensions	18.11 x 17.72 x 6.3 inches
Included Components	Cable
Compatible Devices	Desktop, Headphone, Laptop, MP3 Player, Personal Computer, Smartphone, Speaker, Tablet
Signal-to-Noise Ratio	60 dB

Feature	Specification
Date First Available	November 7, 2024

## 8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official FiiO website or contact your retailer. Keep your proof of purchase for any warranty claims.

Official FiiO Website: [www.fiio.com](http://www.fiio.com)