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› Sangean HDT-20 HD Radio/FM Stereo/AM Component Tuner User Manual

Sangean HDT-20

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Model: HDT-20

INTRODUCTION

The Sangean HDT-20 is a high-fidelity component tuner designed to integrate with your existing stereo system. It provides access to HD Radio, FM Stereo, and AM broadcasts, offering enhanced audio quality and additional content where available. This manual provides detailed instructions for setting up, operating, and maintaining your HDT-20 tuner.

WHAT'S IN THE BOX

Verify that all items are present before proceeding with setup:

- Sangean HDT-20 Radio Component/Tuner
- Infrared Remote Control
- User Manual (this document)
- Power Cord
- Warranty Card
- External FM Telescopic Antenna
- AM External Loop Antenna



Image: Front view of the Sangean HDT-20 tuner, displaying its LCD screen and control buttons.

SETUP

Follow these steps to connect your Sangean HDT-20 tuner to your audio system.

1. Antenna Connection

- **FM Antenna:** Connect the supplied FM telescopic antenna to the 'FM ANTENNA' F-connector on the rear panel. For optimal reception, position the antenna away from metal objects and other electronic devices.
- **AM Antenna:** Connect the supplied AM loop antenna to the 'AM LOOP' terminals on the rear panel. Ensure proper orientation for best AM reception.

2. Audio Output Connection

The HDT-20 offers multiple output options to connect to your stereo receiver or pre-amplifier:

- **Analog Audio Line Output (RCA):** Use standard RCA cables to connect the 'LINE OUT' jacks (red for right, white for left) to an available analog input on your receiver (e.g., 'AUX', 'TUNER', 'CD').
- **Optical Digital SPDIF Output:** For digital audio transmission, connect an optical cable from the 'OPTICAL' port to a compatible optical input on your receiver or DAC.
- **Digital Coaxial Output:** For digital audio transmission, connect a coaxial cable from the 'COAXIAL' port to a compatible coaxial input on your receiver or DAC.

3. Power Connection

Connect the supplied power cord to the 'AC INPUT' on the rear panel of the HDT-20 and then plug it into a standard AC wall outlet (120V ~ 60Hz).



Image: Rear panel of the Sangean HDT-20, highlighting the antenna, analog, optical, coaxial, and power input connections.

Unboxing Video

Your browser does not support the video tag.

Video: An unboxing of the Sangean HDT-20 HD Radio, demonstrating the contents and initial physical overview of the unit. Duration: 1 minute 43 seconds.

OPERATING INSTRUCTIONS

This section details the functions and controls of your HDT-20 tuner.

Front Panel Controls

The front panel features an LCD display and various buttons for direct control.



Image: Detailed view of the Sangean HDT-20's front panel, showing the LCD screen, tuning knob, and various function buttons.

Power On/Off

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

Tuning to Stations

- **Manual Tuning:** Rotate the **TUNING** knob on the right side of the front panel to manually adjust the frequency.
- **Seek Tuning:** Press the **HD SEEK** buttons (up/down arrows) to automatically scan for the next available station.
- **Direct Frequency Input:** Use the 10-key number buttons on the remote control to directly enter a desired AM or FM frequency.
- **Band Selection:** Press the **MODE** button to switch between FM, HD Radio, and AM bands.

HD Radio Reception

When tuned to an FM station broadcasting in HD Radio, the unit will automatically detect and switch to the HD signal. The display will show 'HD' or 'HD1+' indicators. Many HD Radio stations offer multiple sub-channels (e.g., HD2, HD3) which can be accessed by pressing the **HD SEEK** buttons after tuning to the main HD channel.

Setting Presets

The HDT-20 allows you to store up to 20 memory presets (10 for AM, 10 for FM).

1. Tune to the desired station.
2. Press and hold the **PRESET** button until the preset number flashes on the display.
3. Press the desired number button (1-10) on the front panel or remote control to save the station to that preset.
4. To recall a preset, press the **PRESET** button once, then press the corresponding number button.

Display Information

The large LCD display provides various information:

- Channel Frequency
- Call Sign
- Radio Text (scrolling information like artist, song title, news)
- Audio Mode (Stereo/Mono)
- Service Mode
- Signal Quality Indicator
- Clock Time (where available by station)

Press the **INFO** button to cycle through available display information.



Image: A close-up of the Sangean HDT-20's LCD screen, displaying FM frequency, station call letters, and radio text information.

Alarm and Sleep Functions

The HDT-20 includes a Real Time Clock with alarm and sleep functions. Refer to the detailed instructions in the full user manual for setting up the two alarm timers and sleep function.

Headphone Output

A 3.5mm headphone jack is located on the front panel. The headphone volume can be adjusted using the **VOLUME** buttons on the front panel or remote control. Note that this volume control only affects the headphone output and not the line outputs.

Mono Control and Display Dimmer

The unit features a Mono Control for adjusting audio quality, particularly useful for weak FM signals. A Display Dimmer Adjustment allows you to control the brightness of the LCD screen for comfortable viewing in various lighting conditions.

MAINTENANCE

Proper care and maintenance will ensure the longevity of your Sangean HDT-20 tuner.

Cleaning

- Always unplug the unit from the power outlet before cleaning.
- Use a soft, dry cloth to wipe the exterior surfaces.
- For stubborn marks, lightly dampen the cloth with water or a mild, non-abrasive cleaner. Avoid using strong solvents or abrasive pads, as these can damage the finish.
- Do not allow water or liquids to enter the unit.

Storage

If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

If you encounter issues with your HDT-20, refer to the following common problems and solutions.

- **No Power:**
Ensure the power cord is securely connected to both the unit and a working AC outlet.
- **No Sound from Speakers (Analog Output):**
Verify that the RCA cables are correctly connected to the 'LINE OUT' of the HDT-20 and an appropriate input on your receiver. Confirm your receiver is set to the correct input source and its volume is adjusted.
- **No Sound from Speakers (Digital Output - Optical/Coaxial):**
Ensure the digital cable (optical or coaxial) is securely connected to both the HDT-20 and your receiver/DAC. Confirm your receiver/DAC is set to the correct digital input. Some users have reported issues with digital outputs on certain frequencies; if this occurs, try using the analog RCA outputs as an alternative.
- **Poor FM/AM Reception:**
Adjust the position and orientation of the FM telescopic antenna and AM loop antenna. Ensure they are extended and away from other electronic devices or metal objects that may cause interference. Consider upgrading to a higher-gain external antenna for improved signal strength, especially in fringe reception areas.
- **HD Radio Signal Drop-outs:**
HD Radio signals require a strong, stable signal. If drop-outs occur, try repositioning your antenna or consider an amplified antenna. The unit may revert to analog FM if the HD signal becomes too weak.
- **Remote Control Not Working:**
Check the batteries in the remote control and replace them if necessary (2 AAA batteries). Ensure there are no obstructions between the remote and the unit's infrared sensor.

- **Difficulty Setting Presets:**

Ensure you press and *hold* the PRESET button until the number flashes, then press the desired number button. Refer to the 'Setting Presets' section for detailed steps.

- **Headphone Volume Control Only Affects Headphones:**

This is normal operation. The volume control on the HDT-20 is specifically for the headphone output and does not affect the analog or digital line outputs connected to your main audio system.

SPECIFICATIONS

Brand	Sangean
Model Number	HDT-20
Color	Black
Tuner Technology	AM/FM/HD
Radio Bands Supported	AM/FM
Frequency Range	FM: 87.5 - 108.1 MHz, AM: 520 - 1710 KHz
Connectivity Technology	Auxiliary (Analog RCA), Optical Digital SPDIF, Digital Coaxial, Headphone
Product Dimensions (L x W x H)	16.93" x 11.24" x 2.97" (430mm x 285.5mm x 75.4mm)
Item Weight	5 pounds (2.27 kg)
Power Source	Corded Electric (AC 120V ~ 60Hz, 10W Max)
Display Type	LCD
Included Components	Radio Component/Tuner, Remote, User Manual, Power Cord, Warranty Card
Manufacturer	Sangean America, Inc.



Image: Dimensional drawing of the Sangean HDT-20, indicating its length, width, and height.

WARRANTY INFORMATION

The Sangean HDT-20 HD Radio/FM Stereo/AM Component Tuner comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full terms and conditions, refer to the included Warranty Card.

SUPPORT

If you require further assistance or have questions not covered in this manual, please contact Sangean customer support. Refer to the contact information provided on the Warranty Card or visit the official Sangean website for support resources.