Technical Pro H12X500UBT

Technical Pro H12X500UBT 6-Zone 12-Speaker Bluetooth Home Theater Receiver Instruction Manual

Model: H12X500UBT

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Technical Pro H12X500UBT 6-Zone 12-Speaker Bluetooth Home Theater Receiver. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

2. SAFETY INSTRUCTIONS

- **Power Supply:** Ensure the receiver is connected to a power outlet with the correct voltage (110/220V).
- **Ventilation:** Do not obstruct the cooling fan or ventilation openings. Adequate airflow is essential to prevent overheating.
- **Moisture:** Keep the unit away from water, moisture, and high humidity environments.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the receiver on a stable, flat surface. Avoid placing it near heat sources or in direct sunlight.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Technical Pro H12X500UBT 6-Zone Home Theater Bluetooth Receiver
- Remote Control
- Power Cable
- AM/FM Antenna
- Rockville HP5S-8 5.25" Outdoor/Indoor Home Theater Speakers (4 pairs)
- Swivel Brackets for Speakers

4. SETUP

4.1 Receiver Overview

Familiarize yourself with the front and rear panels of the H12X500UBT receiver.

Figure 4.1: Front Panel of H12X500UBT Receiver. Shows power button, input selectors, USB/SD slots, microphone inputs, and various control knobs.

Figure 4.2: Rear Panel of H12X500UBT Receiver. Displays speaker outputs for 6 zones, stereo RCA inputs (CD, DVD, Preamp, Record), Sub Output, Antenna connections, and power input.

4.2 Speaker Connections

The H12X500UBT receiver supports up to 6 zones of speakers. Each zone has dedicated terminals on the rear panel.

1. **Identify Speaker Terminals:** Locate the 'SPEAKER SET 1' through 'SPEAKER SET 6' terminals on the rear panel (refer to Figure 4.2).

2. **Connect Speakers:** For each speaker, connect the positive (+) wire to the red terminal and the negative (-) wire to the black terminal. The receiver uses both banana binding posts (for main speakers) and push-button terminals (for surround sound speakers). Ensure correct polarity for optimal sound.

3. **Rockville HP5S-8 Speakers:** These speakers are designed for outdoor/indoor use and come with swivel brackets for flexible mounting. Connect them to the receiver's speaker outputs.

4.3 Audio Source Connections

Connect your audio devices to the appropriate input jacks on the rear panel.

- **RCA Inputs:** Use RCA cables to connect devices like CD players, DVD players, or other audio sources to the 'CD', 'DVD', or 'STEREO INPUT' jacks.

- **MP3 (3.5mm) Input:** For portable devices, use a 3.5mm audio cable to connect to the 'MP3' input on the front panel.

- **USB/SD Card:** Insert a USB drive or SD card into the respective slots on the front panel for digital media playback.
- **Subwoofer Output:** If using an external powered subwoofer, connect it to the 'SUB OUT' RCA jack on the rear panel.
- **Antenna:** Connect the supplied AM/FM antenna to the 'ANTENNA' terminals for radio reception.

4.4 Microphone Connections

The receiver features two 1/4" microphone inputs on the front panel.

- Insert your 1/4" microphone cables into the 'MIC1' or 'MIC2' jacks.

4.5 Power Connection

- Ensure all audio and speaker connections are secure.
- Connect the power cable to the receiver's power input and then to a suitable 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 Input Selection

Use the 'INPUT FUNCTION' buttons on the front panel or the remote control to select your desired audio source (e.g., CD, DVD, USB, SD, MP3, Bluetooth, AM/FM).

Figure 5.1: Front Panel Left Side. Details power, MP3, MIC inputs, and input selection controls.

5.3 Bluetooth Pairing

To connect a Bluetooth device:

1. Select 'Bluetooth' as the input source using the 'INPUT FUNCTION' button. The display will show

'BLUET'.

2. On your mobile device, enable Bluetooth and search for available devices.

3. Select 'H12X500UBT' from the list. Once paired, the display will indicate a successful connection.

4. You can now play audio from your device through the receiver. The Bluetooth range is approximately 30 feet (9 meters).

5.4 USB/SD Card Playback

The receiver supports MP3, WAV, and WMA files from USB drives and SD cards.

1. Insert a USB drive or SD card into the corresponding slot on the front panel.

2. Select 'USB' or 'SD' as the input source.

3. Use the playback controls (Play/Pause, Next, Previous) on the front panel or remote to manage your music. The receiver supports repeat and random playback.

5.5 AM/FM Digital Tuner

- Select 'AM/FM' as the input source.

- Use the tuning buttons on the front panel or remote to scan for radio stations.

5.6 Microphone Usage

Adjust microphone settings using the dedicated controls on the front panel.

Figure 5.2: Front Panel Right Side. Details Master Volume, Sub Out, Pre Out, and Microphone controls.

- **MIC VOL:** Adjusts the overall volume of the connected microphones.

- **MIC BASS/TREBLE:** Controls the bass and treble frequencies for the microphone audio.

- **MIC ECHO:** Adds an echo effect to the microphone audio.

5.7 Volume and Tone Controls

- **MASTER VOLUME:** Adjusts the overall output volume of the receiver.

- **BASS/TREBLE:** Controls the low and high frequency response of the main audio output.
- **BALANCE:** Adjusts the left/right audio balance.
- **LOUDNESS:** Engages a loudness contour for enhanced bass and treble at low volumes.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the unit with a soft, dry cloth to remove dust. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and vents remain clear of obstructions to prevent overheating.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place.

7. TROUBLESHOOTING

If you encounter issues with your H12X500UBT receiver, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cable disconnected; Power outlet not active; Unit fuse blown	Check power cable connection; Test outlet with another device; Contact service for fuse replacement.
No sound output	Incorrect input selected; Speaker wires disconnected or incorrect polarity; Volume too low; Mute function active; Protection mode engaged	Select correct input source; Verify speaker connections and polarity; Increase master volume; Deactivate mute; Reduce volume or check speaker impedance if protection mode activates frequently.
Bluetooth not connecting	Receiver not in Bluetooth mode; Device too far; Interference; Device already paired to another unit	Ensure receiver input is set to Bluetooth; Move device closer; Reduce interference; Disconnect device from other Bluetooth connections.
Poor radio reception	Antenna not connected or poorly positioned; Local interference	Connect AM/FM antenna securely; Adjust antenna position for better signal; Move receiver away from other electronic devices.
Microphone not working	Microphone not connected; MIC VOL too low; Microphone faulty	Ensure microphone is securely plugged in; Increase MIC VOL; Test with another microphone.
Unit overheating / Protection mode	Insufficient ventilation; Overloaded speakers; Short circuit in speaker wiring	Ensure vents are clear; Check speaker impedance and connections; Reduce volume. Allow unit to cool down before restarting.

8. SPECIFICATIONS

8.1 Technical Pro H12X500UBT Receiver

- **Peak Power Handling:** 6000 Watts
- **RMS Power:** 650 Watts (Both Channels Driven @ 1.0% THD @ 8 Ohms)
- **Inputs:** (2) RCA, USB, SD Card, MP3 (3.5mm)
- **Outputs:** Banana Binding Post (4 Speakers), Push Button (Surround Sound Speakers), Sub Out, Pre Out
- **Media Playback:** MP3, WAV, WMA files from USB & SD
- **Bluetooth:** 2.4 GHz Technology, A2DP Stereo Device Compatible, Range: 30 Feet
- **Tuner:** AM/FM Digital Tuner
- **Microphone Inputs:** Dual 1/4" with Volume, Echo, Bass, and Treble Controls
- **Controls:** Bass, Treble, Balance, Master Volume, Separate Gain Control for Preamp and Subwoofer Outputs
- **Display:** Digital FL Readout With Spectrum Display
- **Cooling:** Built-In Cooling Speed Fan
- **Recording:** 128 kbps/ 44.11 KHz on .wav (via USB/SD)
- **Voltage:** 110/220V
- **Product Dimensions (L x W x H):** 17" x 4.5" x 13" inches (43.2 x 11.4 x 33 cm)
- **Product Weight:** 23 Lbs (10.4 kg)

8.2 Rockville HP5S-8 Speakers

- **Peak Power Handling:** 420 Watts (per pair)
- **RMS Power Handling:** 140 Watts (per pair)
- **Weather Resistance:** IPX44 rated (rain, wind resistant)
- **Construction:** Tough ABS, Stainless steel grill (rustproof)
- **Woofer:** 5.25" Polypropylene Cone with Rubber Surrounds, 1" Aluminum Voice Coils, 10 oz. Ferrite Magnet
- **Tweeter:** 0.5" Mylar Dome
- **Terminals:** High Quality Banana plug / Binding Posts Speaker Terminals
- **Crossover:** Built-in Capacitor Crossover Network
- **Frequency Response:** 60Hz – 20KHz
- **Sensitivity:** 90dB @ 1w / 1m
- **Impedance:** 8 Ohms
- **Dimensions (H*W*D):** 9.8" x 7.1" x 5.7" inches (250 x 180 x 145 mm)
- **Color:** White (paintable grill)

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Technical Pro customer service. Keep your purchase receipt as proof of purchase.
Manufacturer: Technical Pro