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Bose PLS-1310

Bose PLS-1310 CD/Tuner Amplifier User Manual

Model: PLS-1310

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Bose PLS-1310 CD/Tuner Amplifier. Please read it thoroughly before using the unit and keep it for future reference.

SAFETY INFORMATION

Important Safety Instructions:

- Do not open the unit. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- The unit contains a laser device. Do not remove screws or covers.
- To prevent electric shock, do not remove the cabinet.
- Ensure proper ventilation. Do not block ventilation openings.
- Disconnect the power cord from the wall outlet if the unit is not to be used for a long period of time.

Note: The rear panel of the unit contains a warning regarding laser radiation and the need for professional servicing.



Figure 1: Rear panel of the Bose PLS-1310, highlighting the model number and safety warnings.

PRODUCT OVERVIEW

The Bose PLS-1310 is an integrated audio component featuring a CD player, FM/AM tuner, and amplifier. It is designed to deliver high-quality audio playback and amplification for your home audio system.

Ventilation

The unit is equipped with ventilation grilles on the top surface to ensure proper heat dissipation. Do not obstruct these grilles during operation.



Figure 2: Top view of the Bose PLS-1310, showing the ventilation grilles.

SETUP

Follow these steps to set up your Bose PLS-1310 unit:

1. **Placement:** Place the unit on a stable, level surface with adequate ventilation. Avoid direct sunlight, heat sources, and excessive dust or moisture.
2. **Speaker Connection:** Connect your speakers to the speaker terminals on the rear panel. Ensure correct polarity (+ to + and - to -). The amplifier supports 6Ω speakers.
3. **Audio Input Connection:**
 - For external audio sources (e.g., tape deck, auxiliary device), connect them to the AUX or TAPE input jacks on the rear panel using RCA cables.
 - The unit also features a digital optical output for CD playback, allowing connection to an external DAC or digital recorder.
4. **Antenna Connection:** Connect FM and AM antennas to their respective terminals for radio reception.
5. **Power Connection:** Ensure all audio connections are secure before plugging the power cord into a suitable AC outlet (100V, 50/60Hz).

OPERATING INSTRUCTIONS

Power On/Off

- Press the MAIN POWER switch on the rear panel to the ON position.
- Use the front panel power button or the remote control to turn the unit on or off during normal operation.

CD Playback

1. Press the CD function button.
2. Open the CD tray, place a CD with the label side up, and close the tray.
3. Press the Play button to start playback.
4. Use the Skip, Search, Pause, and Stop buttons for CD control.

Tuner Operation (FM/AM Radio)

1. Press the TUNER function button.
2. Select FM or AM band.
3. Use the tuning controls to select your desired station. The FM frequency range is 76.0-90.0 MHz (100kHz step), and AM is 522-1629 kHz (9kHz step).
4. Preset stations can be stored and recalled for convenience.

Amplifier Functions

- **Source Selection:** Use the input selector to choose between CD, Tuner, AUX, or TAPE inputs.
- **Volume Control:** Adjust the master volume knob or use the remote control.
- **Tone Controls:** Adjust Bass, Treble, and Balance as desired.
- **Headphone Output:** Connect headphones to the front panel jack for private listening.

MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Regularly check that the ventilation grilles are free from dust and obstructions.
- **CD Care:** Handle CDs by their edges. Clean dirty CDs with a soft, lint-free cloth, wiping from the center outwards.
- **Servicing:** If the unit requires service, contact an authorized Bose service center. Do not attempt to repair it yourself.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; MAIN POWER switch off; power outlet malfunction.	Check power cord connection; ensure MAIN POWER switch is ON; try a different outlet.
No sound	Incorrect input selected; volume too low; speaker connections loose; headphones connected.	Select correct input source; increase volume; check speaker wiring; disconnect headphones.
CD does not play or skips	CD is dirty or scratched; CD inserted incorrectly; unit malfunction.	Clean the CD; reinsert CD correctly; try another CD. If problem persists, contact service.
Poor radio reception	Antenna not connected or poorly positioned; interference.	Connect antenna securely; adjust antenna position; move unit away from other electronic devices.

SPECIFICATIONS

CD Player Section

- **Playback Frequency Range:** 20Hz ~ 20kHz (± 2 dB)
- **Dynamic Range:** 95dB or more (1kHz A-WTD)
- **S/N Ratio:** 95dB or more (A-WTD)
- **Total Harmonic Distortion:** 0.005% or less (1kHz 0dB)
- **Channel Separation:** 90dB or less (1kHz)
- **Wow & Flutter:** Below measurement limits

Amplifier Section

- **Rated Output:** 40W + 40W (20Hz ~ 20kHz, 6 Ω , THD 0.05%, both channels driven)
- **Playback Frequency Range:** 10Hz ~ 40kHz (+0, -1dB, AUX input, 6 Ω , at rated output, EQ position: flat)
- **S/N Ratio:** 90dB or more
- **CD REC OUT Level/Impedance:** 500mV / 1k Ω
- **PRE OUT Level/Impedance:** 1.0V (AUX, TAPE rated input) / 1k Ω ; 3.2V (CD) / 1k Ω
- **Input Sensitivity/Impedance:** TAPE: 250mV / 47k Ω ; AUX: 250mV / 47k Ω
- **Channel Separation:** 40dB or more (AUX, 1kHz)

Tuner Section (FM)

- **Frequency Range (STEP):** 76.0 ~ 90.0MHz (100kHz step)
- **Practical Sensitivity:** 13dBf
- **S/N Ratio:** 80dB (at 65dBf)
- **Total Harmonic Distortion:** 0.2% (at 65dBf, 1kHz, mono)
- **Frequency Characteristics:** 30Hz ~ 15kHz (REC OUT)
- **Separation:** 45dB (at 1kHz)

Tuner Section (AM)

- **Frequency Range (STEP):** 522 ~ 1629kHz (9kHz step)
- **Practical Sensitivity:** 55dB μ V/m
- **S/N Ratio:** 50dB (999kHz, 100dB μ /m INPUT)
- **Total Harmonic Distortion:** 1% or less
- **Separation:** 30dB (at 400Hz)

General

- **Dimensions (W×H×D):** 286 × 132.5 × 369.7mm
- **Weight:** 7.1kg
- **Rated Power Consumption:** 85W (Electrical Appliance and Material Safety Law)
- **Connectivity Technology:** AUX
- **Control Method:** Remote

WARRANTY AND SUPPORT

Specific warranty information for the Bose PLS-1310 is not available in this document. For warranty details, please refer to the warranty card included with your product or contact your local Bose authorized dealer or service center.

For technical support or service inquiries, please visit the official Bose website or contact their customer service department.

