

Teac AD850B

Teac AD-850 Home Audio Cassette and CD Player with USB-Recorder and Karaoke Mic Input

Instruction Manual

1. INTRODUCTION

The Teac AD-850 is a versatile home audio component combining a cassette deck, CD player, and USB recorder. It features a karaoke microphone input, allowing for recording and playback across various media formats. This manual provides essential information for the safe and effective operation of your AD-850 unit.

2. SAFETY INFORMATION

Please read all safety instructions carefully before operating the unit. Keep this manual for future reference.

- **Power Source:** Connect the unit only to the specified AC voltage (120V AC, 60Hz for USA/Canada).
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids on the unit.
- **Heat:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- **Servicing:** Do not attempt to service the unit yourself. Refer all servicing to qualified service personnel.
- **Laser Product:** This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Teac AD-850 Main Unit
- Remote Control Unit (RC-1329)
- Power Cord
- Instruction Manual (this document)
- RCA Audio Cable (Stereo)

4. CONTROLS AND INDICATORS

4.1 Front Panel



Figure 4.1: Front Panel Layout

The front panel provides access to all primary functions. Key components include:

- **Power Button:** Turns the unit on/off.
- **CD Tray:** For inserting audio CDs.
- **Cassette Deck:** For inserting audio cassette tapes.
- **USB Port:** For connecting USB flash drives for playback and recording.
- **Display:** Shows track information, time, and operational status.
- **Source Button:** Selects input source (CD, USB, Tape, Line In).
- **Recording Level Knob:** Adjusts recording input level.
- **Microphone Input (MIC):** 6.3mm (1/4") mono phone jack for microphone connection.
- **MIC Level Knob:** Adjusts microphone input volume.
- **Echo Mode Button:** Activates/deactivates echo effect for microphone.
- **Pitch Control:** Adjusts playback speed for cassette tapes.

4.2 Rear Panel



Figure 4.2: Rear Panel Connections

The rear panel houses the main input/output connections:

- **LINE INPUT (RCA):** Connect external audio devices (e.g., turntable, media player).
- **LINE OUTPUT (RCA):** Connect to an amplifier or receiver.
- **AC IN:** Power cord connection.

4.3 Remote Control Unit (RC-1329)



Figure 4.3: Remote Control Layout

The included remote control provides convenient operation from a distance. It duplicates most front panel controls and adds specific functions like program playback and folder navigation for USB.

5. SETUP

5.1 Placement

Place the unit on a stable, level surface. Ensure sufficient space around the unit for proper ventilation (at least 10 cm on top and sides, 5 cm at the rear).

5.2 Connections

- **Connecting to an Amplifier/Receiver:** Use RCA audio cables to connect the LINE OUTPUT jacks on the AD-850's rear panel to an available audio input (e.g., "CD IN", "AUX IN") on your amplifier or receiver.
- **Connecting External Audio Devices (Input):** To record from an external source, connect its audio output to the LINE INPUT jacks on the AD-850's rear panel.
- **Microphone Connection:** Insert a 6.3mm (1/4") mono phone jack microphone into the MIC input on the front panel.

5.3 Power Connection

After all audio connections are made, connect the supplied AC power cord to the AC IN terminal on the rear panel of the unit, then plug the other end into a suitable wall outlet.

6. OPERATING INSTRUCTIONS

6.1 Basic Playback

1. Press the **POWER** button to turn on the unit.
2. Press the **SOURCE** button to select the desired playback source (CD, USB, or TAPE).
3. Insert the media (CD, USB flash drive, or cassette tape).
4. Press the **PLAY** button (▶) for the selected source.

6.2 CD Player Operation

- **Loading a CD:** Press **OPEN/CLOSE**, place the CD on the tray with the label side up, then press **OPEN/CLOSE** again to close.
- **Playback:** Press **PLAY** (▶).
- **Pause:** Press **PAUSE** (⏸). Press again to resume.
- **Skip Tracks:** Press **SKIP FORWARD** (⏭) or **SKIP BACKWARD** (⏮).
- **Fast Forward/Rewind:** Hold **SKIP FORWARD** or **SKIP BACKWARD**.
- **Stop:** Press **STOP** (■).
- **Playback Modes:** Use the remote control for Continuous, Shuffle, and Program playback.

6.3 Cassette Deck Operation

- **Loading a Tape:** Press the **EJECT** button to open the cassette door, insert the tape, and close the door.
- **Playback:** Press the **PLAY** (▶) button for the tape deck.
- **Fast Forward/Rewind:** Press the **FAST FORWARD** (⏭) or **REWIND** (⏮) buttons.
- **Pitch Control:** Adjust the **PITCH CONTROL** knob to vary the playback speed (approx. +/-10%).

6.4 USB Playback and Recording

- **USB Playback:** Insert a USB flash drive into the front USB port. Select USB as the source. The unit will automatically detect and play MP3 files. Use navigation buttons to select tracks or folders.
- **Recording to USB:**
 - a. Select the desired source (CD, TAPE, or LINE IN).
 - b. Insert a USB flash drive.
 - c. Press the **RECORD** button (●) for USB. The unit will enter record-standby mode.
 - d. Adjust the **REC LEVEL** knob to set the recording volume.
 - e. Start playback on the source device. The recording will begin automatically.
 - f. Press **STOP** (■) to end recording.

Note: When recording from CD to USB, the mic sound cannot be recorded. Recording from CD to USB is at 128Kbps MP3 format.

6.5 Microphone and Karaoke Function

- Connect a microphone to the MIC input.
- Adjust the **MIC LEVEL** knob to control microphone volume.
- Press the **ECHO MODE** button to apply an echo effect to the microphone sound.
- The microphone audio can be mixed with playback from CD, USB, or Tape, and can be recorded to cassette or USB flash drive.

7. MAINTENANCE

- **Cleaning the Unit:** Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Cassette Deck Maintenance:** Regularly clean the tape heads, pinch rollers, and capstan with a cotton swab lightly moistened with isopropyl alcohol. Demagnetize the tape heads periodically.
- **CD Lens Cleaning:** Do not attempt to clean the CD lens directly. Use a commercially available CD lens cleaner disc if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; Power outlet faulty.	Ensure power cord is securely connected; Try a different outlet.
No sound output	Incorrect source selected; Cables not connected properly; Amplifier volume too low.	Select correct source; Check all audio cable connections; Increase amplifier volume.
CD does not play	CD inserted incorrectly; CD is dirty or scratched; Disc format not supported.	Insert CD label side up; Clean or replace CD; Ensure it's an audio CD or MP3 CD.
Cassette tape sounds distorted or muffled	Tape heads are dirty or magnetized; Tape is old or damaged.	Clean and demagnetize tape heads; Try a different tape.
USB recording fails	USB drive full; USB drive not formatted correctly; USB drive incompatible.	Delete files from USB drive; Format USB drive to FAT32; Try a different USB drive.

9. SPECIFICATIONS

The following specifications are subject to change without notice for improvement.

- **Cassette Deck:**
 - Track System: 4-track, 2-channel stereo
 - Head Construction: Recording/Playback head × 1, Erase head × 1
 - Tape Type: C-46/C-60
 - Tape Speed: 4.76 cm/sec
 - Motor: DC servo motor × 1
 - Pitch Control: Approx. +/-10% (playback only)
 - Wow and Flutter: 0.25% (WRMS)
 - Frequency Response (Overall): Chrome 50-12,000Hz +/-3dB, Normal 50-12,000Hz +/-3dB
 - S/N Ratio (Overall): 59dB (3%THD level WTD)
 - Winding Time: Approx. 120 seconds (C-60 tape)

- **CD Player:**

- Pickup: 3-beam semiconductor laser
- Digital Filter: 8x oversampling digital filter
- Frequency Response: 20Hz to 20kHz +/-2dB
- Total Harmonic Distortion: 0.02% or less (1kHz)
- S/N Ratio: 87dB or more (IHF-A)

- **USB Interface:**

- USB: USB 1.1 Full speed (12Mbps)
- Playback Format: MP3
- Playback Frequency Response: 20Hz to 20,000Hz (+/-2dB)
- Playback S/N Ratio: 85dB or less
- Playback Bit Rate: 8K to 320K bps
- Recording Format: MP3
- Recording Frequency Response: CD to USB 20Hz to 15,000Hz (+/-3dB), Line In to USB 100Hz to 15,000Hz (+/-3dB)
- Recording S/N Ratio: 85dB or more
- Recording Bit Rate: 128Kbps

- **Microphone Input:**

- Connector: 6.3mm (1/4") Mono phone jack
- Nominal Input Level: 0.78mV (-60dBm)
- Input Impedance: 47kΩ or more

- **Analog Input/Output:**

- Line Input (RCA): 462mV (50kΩ or higher input impedance)
- Line Output (RCA): 462mV (50kΩ or higher impedance load)

- **General:**

- Power Supply: AC 120V, 60Hz (USA/Canada)
- Power Consumption: 13W
- Dimensions (W×H×D): 435 × 145 × 288 mm (17.1 × 5.7 × 11.3 inches) (including protrusions)
- Weight (Net): 4.8 kg (10.58 lbs)
- Operating Temperature: 5 to 35°C (41 to 95°F)
- Operating Humidity: 5 to 85% (no condensation)
- Storage Temperature: -20 to 55°C (-4 to 131°F)

10. WARRANTY AND SUPPORT

Teac products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Teac website. Do not attempt to repair the unit yourself, as this may void your warranty.

For further assistance, please contact Teac customer support.