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CXN100 Network Player Receiver

Cambridge Audio CXN100 Network Player Receiver User Guide

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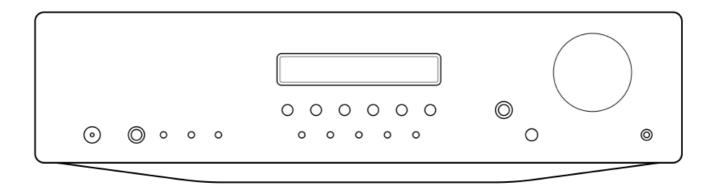
Contents

Cambridge Audio CXN100 Network Player Receiver

AXR85/100

- Last updated: August 2, 2022 02:05. Revision #9850

Introduction

- Last updated: July 29, 2022, 10:29. Revision #9843
- This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice.
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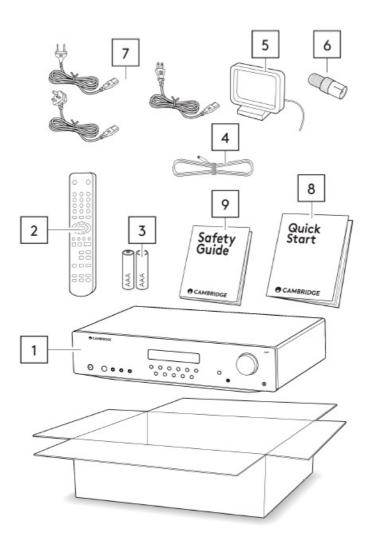
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For upcoming news on future products, software updates, and exclusive offers, make sure you register your product at **https://www.cambridgeaudio.com/register**
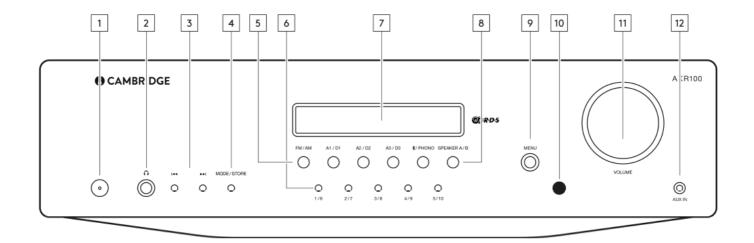
What's included

What's included with the AXR85/100?

Inside the box of your AXR you will receive

1. AXR Stereo Receiver
2. Remote Control
3. 2x AAA Batteries
4. FM antenna
5. AM antenna
6. FM antenna adaptor (only included with CU units, not included with UK/EU units)
7. UK power cord (Depending on which country the AXR was purchased in)

   EU power cord (Depending on which country the AXR was purchased in)

   CU power cord (Depending on which country the AXR was purchased in)
8. Quick Start Guide
9. Safety Guide

Front panel controls

- Last updated: July 29, 2022, 10:29. Revision #9842

1. **POWER BUTTON** – Switches the unit between Standby mode (indicated by dim power LED) and On (indicated by bright power LED). Standby is a flow power mode where the power consumption is less than 0.5 Watts. The unit can be left in Standby mode when not in use.

   Auto Power Down (APD)

   You can enable and disable the unit's APD setting. This can be adjusted by pressing and holding the Power button until the LED flashes in sequence.

   The two options below show which option is selected.

   Standby flashes 5 times – APD disabled. APD OFF will be shown on the display

   Standby flashes 10 times – APD enabled. APD ON will be shown on the display

   Note: Make sure the unit is On, before making changes to the APD function.

2. **HEADPHONES SOCKET** – Allows for the connection of stereo headphones with a quarter-inch jack plug. Headphones with an impedance of between 32 and 600 ohms are recommended.

   Note: Plugging in headphones will automatically mute the loudspeaker outputs.

3. **SKIP/SCAN BUTTONS** – The skip scan buttons are used when the FM/AM tuner is selected. These buttons have different uses depending on the mode selected:

   In Preset mode – Steps up or down through the user-stored presets.

   In Auto mode – Searches for the previous or next available station. The unit stops at the next strong signal it finds.

   In Manual mode – Allows manual stepping up or down of the frequency.

   Note: When Preset mode is activated, the unit will automatically tune to the first available preset.

4. **MODE/STORE BUTTON** – Used for AM/FM mode. Press to cycle the tuning mode between Preset, Auto, and Manual modes. Pressing and holding the button will allow the current selected station frequency to be stored in the preset bank.

   Follow the 'Storing Radio Presets' guide in the 'Operating Instructions' section for full details on storing presets.

5. **INPUT SOURCE BUTTONS (DIGITAL INPUTS D1, D2, D3 for AXR100 only)** – Press the relevant source button to select the desired input source.

   Note: There will be no sound from the receiver if the correct input source button isn't selected.

6. **PRESET BUTTONS** – Used for AM/FM modes. The preset buttons are used to select user-stored station presets.

   - Pressing a preset button once will select one of the first 5 presets.
   - Pressing and holding will select the later 5 presets.
   - These presets are stored separately for each waveband i.e. there are 10 for FM and 10 for AM. Press the FM/AM button to switch between bands and sets of 10 presets.

Follow the 'Storing Radio Presets' guide in the 'Operating Instructions' section for full details on storing presets.

Note: As well as these 10 per band available directly from the front panel buttons, a further 5 presets (11-15) per band can also be accessed by using the 'Skip/Scan' buttons to cycle through all 15 presets.

7. **DISPLAY** – Used to display information such as the selected input source, volume, and tone/balance levels. When the FM or AM tuner input is selected, the radio frequency or RDS station name will be displayed.

   Note: When first purchased, the display will have a protective film over the top. Peel this off for a clear display.

8. **SPEAKER A/B BUTTON** – The Speaker A/B button toggles between the two sets of loudspeaker terminals. The options are speaker A only, speaker B only, speaker A and B together, and both sets of speakers off.

   Note: 'Speaker off' is different to the mute function, as the Rec Out and Headphones outputs are still enabled.

9. **MENU BUTTON** – Pressing this once will select the Bass option. Pressing a second time will select the Treble option and pressing a third time will select the Balance option. When one of these options is selected, the volume control will adjust the level.

   If nothing is pressed for a while, the source will be displayed and the volume control will go back to controlling the volume level.

   Note: Any adjustments to the Bass, Treble, and Balance settings are saved when the unit is switched off and back on again.

10. **INFRARED SENSOR** – Receives IR commands from the supplied remote control. An unobstructed line of sight between the remote control and the sensor is required.

11. **VOLUME CONTROL** – Use to increase or decrease the level of the sound from the outputs of the unit. This controls the volume level of the loudspeakers, Sub-out, and headphones.
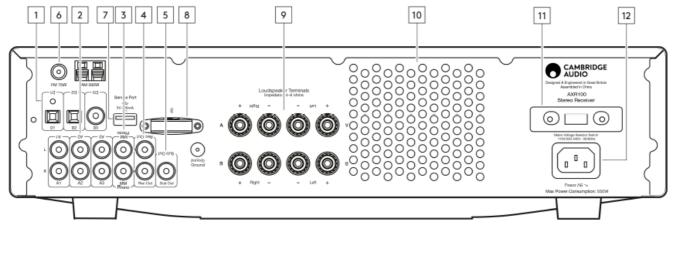
    Note: It does not affect the level of the 'Rec Out' output, as this has a fixed level.
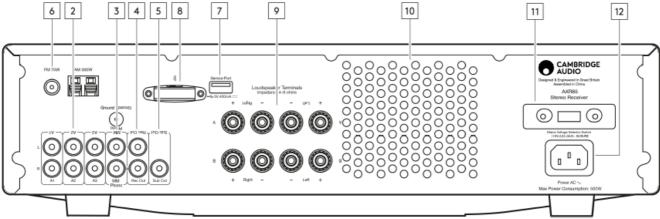
    The volume control will also change the level of bass, treble, and balance in the menu options.

12. **AUX INPUT SOCKET** – This source input allows you to connect a portable audio device, such as a smartphone, directly to the front of the unit using a 3.5mm stereo jack. Once plugged in, this input is automatically selected.

Rear panel connections

Last updated: December 16, 2022 03:14. Revision #9841

1. **DIGITAL INPUTS (AXR100 ONLY)** – TOSLINK and S/P DIF co-axial digital inputs.

   Note: To obtain the best results from your system we recommend using only high-quality Cambridge Audio interconnects. This will ensure that you hear your system as we designed it. Please ask your dealer for details.

2. **AUDIO INPUTS** – These inputs are suitable for any 'line level' source equipment, such as the audio outputs of CD players, BD/DVD players, etc.

3. **PHONO INPUT** – This input has a built-in phono stage.

   Record players fitted with Phono Cartridges of the Moving Magnet (MM) or high output Moving Coil (MC) type (between 2-6mV output and 30-50k Ohm load impedance) can be used.

   Low-output Moving Coil types (<1mV and usually 10-1000 Ohm load impedance) cannot be directly connected and will require a matching transformer or Phono pre-amp.

   Note: The 'ground' terminals on both the record player and the AXR should be connected (where possible) with a ground wire for the lowest noise/hum pickup.

   Due to stray magnetic fields, turntables should not be located nearby due to possible interference.

4. **REC OUT** – Connect to the recording input of a CD recorder input, tape deck, or other compatible recording device, etc.

   This output provides a constant high-level output that does not fluctuate with the volume of the main unit. For this reason, the AXR85/100 cannot be used as a Preamplifier only and the Rec Out can't be connected to a Subwoofer.

5. **SUB OUT** – Connection to the input socket of an active subwoofer.

   Note: There is a 2nd order low pass filter of 200Hz applied to the Sub Out, which will filter out frequencies above 200Hz.

   The frequency of the connected speakers is not adjusted when the Sub Out is in use, they will still be sent the
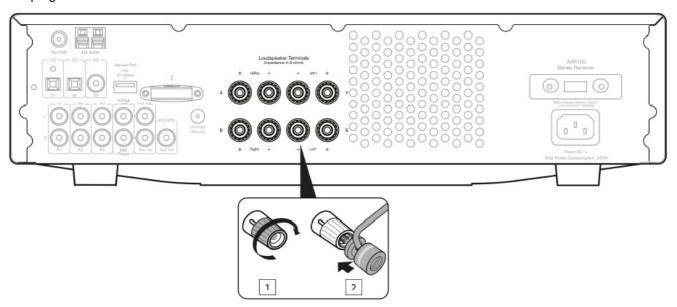
full frequency range.

6. **AM/FM ANTENNA** – Tuner aerial connections for picking up radio signals. Refer to the 'Connections' section of this manual. For permanent use, outdoor AM/FM aerials are highly recommended.

7. **SERVICE PORT** – For servicing use only. Do not connect anything here as it may result in damage to the unit.

8. **BLUETOOTH ANTENNA** – Used for wireless streaming Bluetooth (A2DP/AVRCP) audio capability directly from most phones, tablets, and laptops.

   Refer to the 'Operating Instructions' section of this manual.

9. **LOUDSPEAKER TERMINALS**

   Note: When using a banana plug, make sure the speaker terminals are completely tightened before inserting the plug.

Two sets of loudspeaker terminals are available:

A (main loudspeaker terminals, top row) and

B (secondary switchable loudspeaker terminals, bottom row).

Connect the wires from your left channel loudspeaker to the Left positive and negative terminals, and the wires from the right channel loudspeaker to the Right positive and negative terminals.

In each case, the red terminal is the positive output and the black terminal is the negative output.

Care should be taken to ensure no stray strands of wire are shorting speaker outputs together. Please ensure that the loudspeaker terminals have been tightened adequately to provide a good electrical connection. The sound quality can be affected if the screw terminals are loose.

The use of A and B speakers affords you an easy and inexpensive way to create a simple multi-room system.

Note: The speaker terminals will need to have the round pips removed before you can insert a banana plug into them.

Note: When using two pairs of speakers, use speakers with a nominal impedance of 8 Ohms.

10. **HEAT TUNNEL VENT GRILLE** – Allows cooling of internal circuitry via the heat tunnel. DO NOT OBSTRUCT.

11. **VOLTAGE SELECT SWITCH** – For servicing use only.

12. **AC POWER SOCKET** – Once all connections are complete, plug the AC power cable into an appropriate mains socket and turn the unit on.

   Please only use the power lead supplied with the unit.

Remote control

The AXR is supplied with a remote control that operates this unit and its built-in tuner. In addition, the buttons with Blue colored icons can operate a matching AX CD player.
The supplied AAA batteries must be fitted before the remote control can be used.

1. **POWER BUTTON** – Switches the AXR85/100 between On and low power eco-friendly Standby mode

2. **MUTE** – Mutes audio on the unit. Press again to cancel mute.

3. **CD (BLUE COLOURED ICONS)** – To operate the AXC players only. For more information refer to the AX CD user's manual.

4. **SPEAKER A/B** – Toggles between the selected loudspeaker terminals: speaker A only, speaker B only, speaker A and B together, or all speakers off.

5. **STEREO/MONO** – Used only when FM is selected. Toggles between FM stereo output and FM mono output. For low-quality stereo FM signals, selecting mono can usually reduce the noise.
   Note: Some FM stations are mono only, and selecting Stereo will not affect these.

6. **MODE** – Used for AM/FM mode. Press to cycle the tuning mode between Preset, Auto, and Manual modes.

7. **VOLUME** – Increases or decreases the volume of the unit. Also used to change the bass, treble, and balance settings when these are selected.

8. **SKIP/SCAN** – Used when FM or AM is selected.
   In Preset mode – Steps up or down through the user-stored presets.
   In Auto mode – Search for the previous or next available station with a strong signal.
   In Manual mode – Adjusts the frequency in steps, for fine-tuning.

9. **MENU** – Toggles between Bass, Treble, and Balance options. Use the volume buttons to change the level of the selected option.

10. **PRESET BUTTONS (1/5, 2/6, 3/7, 4/8)** – Used when FM or AM is selected. This selects user-stored station presets.
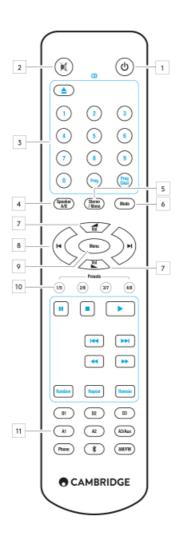   Pressing a preset button once will select one of the first 4 presets.
    Pressing and holding will select the later 4 presets.
    8 presets are available directly from the remote, further presets can be selected in Preset mode, by using the Skip/Scan buttons.

11. **SOURCE BUTTONS (D1, D2, D3, A1, A2, A3/Aux, Phono, Bluetooth, AM/FM)** – Press the relevant button to select the desired music source.
    Note: Digital inputs D1, D2, and D3 are for the AXR100 only.

Getting connected

- Last updated: December 15, 2022 04:04. Revision #9839

LOUDSPEAKERS

- Check the impedance of your speakers. You can use speakers with an impedance of 4 – 8 Ohms.
- The red-colored speaker terminals are positive (+) and the black speaker terminals are negative (-). Make sure the correct polarity is maintained at each speaker connector or the sound can become weak and "phase" with little bass.

USING BARE WIRE CONNECTIONS
Prepare the speaker cords for connection by stripping off approximately 10mm (3/8") or less of the outer insulation. More than 10mm could cause a short circuit. Twist the wires tightly together so there are no loose ends. Unscrew the speaker terminal, insert the speaker cable, tighten the terminal, and secure the cable.
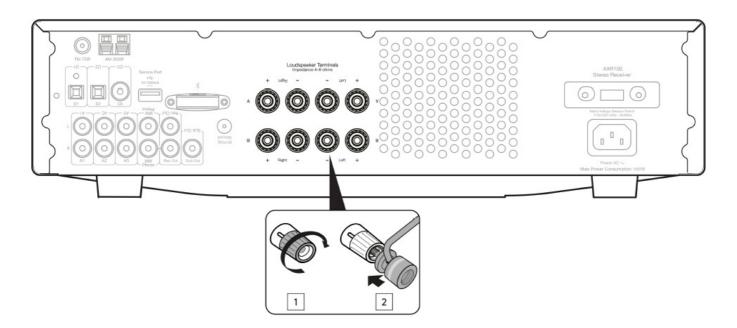**Note:** All connections are made using standard loudspeaker cables.

USING BANANA PLUGS

We recommend using Banana plugs with our units to establish a secure connection and ensure there are no loose strands of wire that may cause unwanted noise or interference.
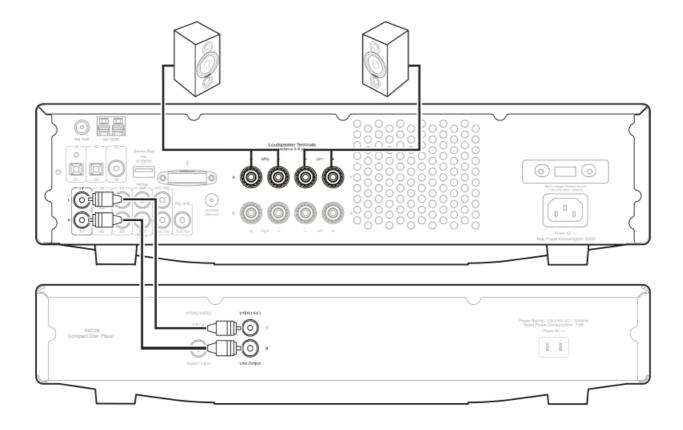
Once you have stripped the outer insulation of the cable and twisted the wires as indicated below, securely connect these to your banana plugs, remove the dust cap from the end of the speaker terminal, and push the plug in as far as possible without applying excessive force.

- When using a banana plug, make sure the speaker terminals are completely tightened before inserting the plug.
- The speaker terminals will need to have the round pips removed before you can insert a banana plug into them.
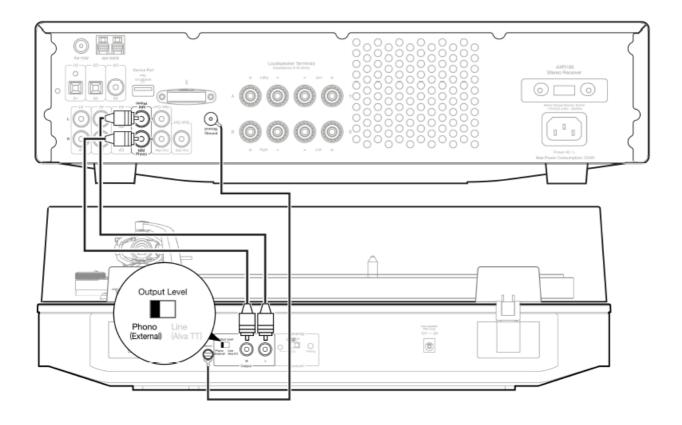
BASIC CONNECTIONS

- Any 'line level' source equipment can be connected to the audio inputs on the AXR (A1 to A3).
- The diagram below shows the basic connection of the AXR to a CD player using the A1 analog input and a pair of loudspeakers.
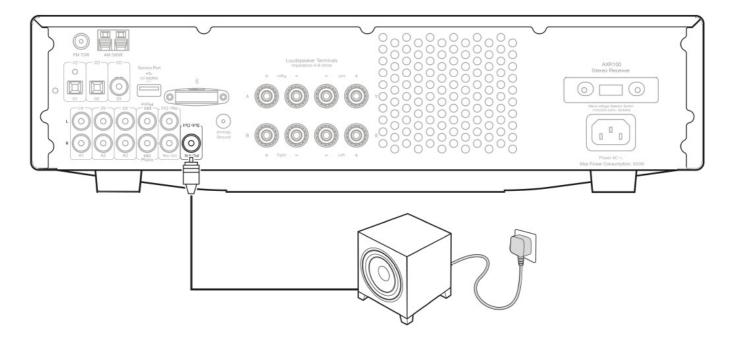
- The diagram below shows the basic connection of the AXR to a turntable via the Phono input.
- This unit has a built-in Phono preamplifier (Phono Stage), so if your turntable does not possess its own Phono Stage, you may connect the record player to the input on the rear of the unit marked 'Phono'.
- If your turntable does have a built-in Phono stage or you are using an external version, you should connect to any of the other analog inputs, as the 'Phono' input may produce an unwanted distortion.

Note: Do not connect a non-phono source to the phono input.

- The Sub Out is for connecting to the LFE/Sub input of an active subwoofer.
- The diagram below shows how to connect the AXR to an active subwoofer via the LFE/Sub input on the subwoofer.
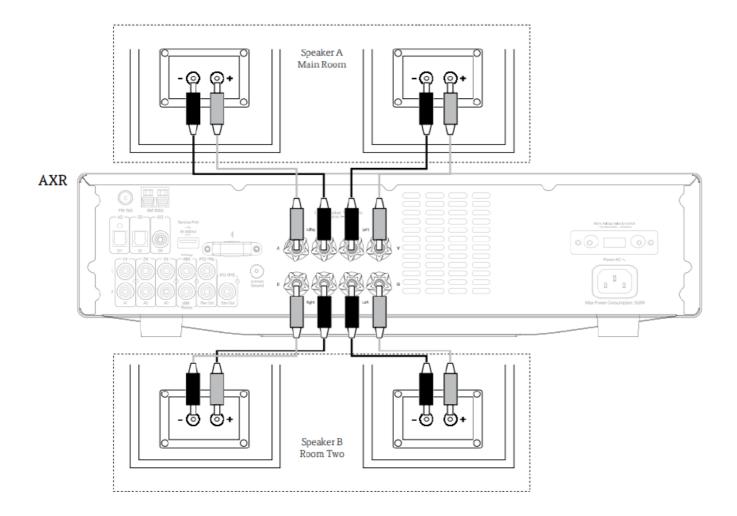

SPEAKER B CONNECTIONS

- The Speaker B connections on the back of the amplifier allow for a second set of speakers to be used (i.e. speakers located in another room).
- The Speaker A/B button on the front panel and remote control allows the two sets of speakers to be toggled on and off. Refer to the Front Panel or
- Remote Control section of this manual for more information on the Speaker A/B operation.

Either A or B, or both A and B may be selected for use.
Note: When using two pairs of speakers, use speakers with a nominal impedance of 8 ohms each.
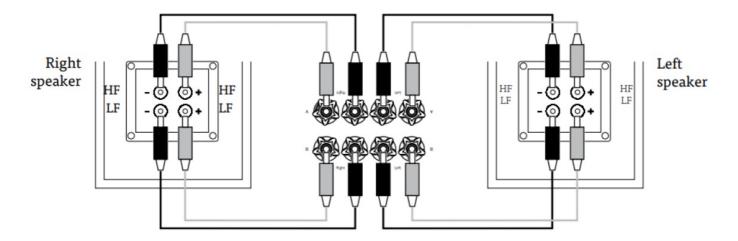
BI-WIRE CONNECTIONS

- If your loudspeakers are equipped with two sets of terminals, then it is possible to connect them in the bi-wire configuration.
- Bi-wiring sends the bass and treble frequencies down separate speaker cables, resulting in a clearer, more focused sound.
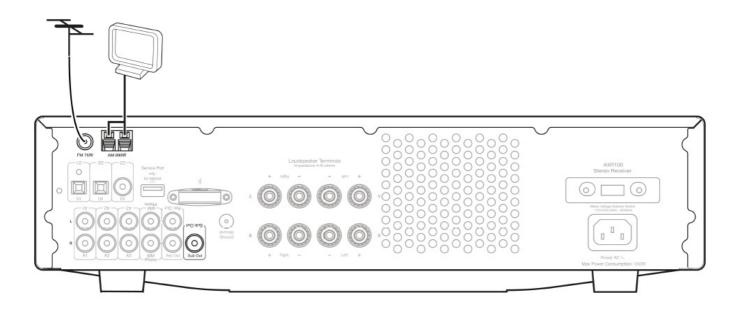
Note:

- Speakers A and B must both be selected on the front panel of the unit for this type of connection to work.
- Remove the bi-wire link on the speaker terminals before connecting. Refer to your speaker's manual for more information.

Right speaker / Left speaker

Aerials

- Last updated: July 29, 2022, 10:29. Revision #9838

Note: The AXR is supplied with a temporary aerial for initial use. For permanent use, outdoor aerials are highly recommended.

AM LOOP AERIAL

- Connect each end of the single-length antenna to the antenna terminals.
- Place the antenna as far from the main system as possible to prevent unwanted noise and to obtain optimum reception.
- If the AM loop aerial provided does not provide sufficient reception, it may be necessary to use an outdoor AM aerial.

FM AERIAL

- Connect the supplied aerial to the FM 75 ohm socket.
- Extend and move the aerial lead around until you get the best reception.

Note: For continued use, we strongly recommend using a 75-ohm outdoor FM aerial.

Operating instructions

- Last updated: September 27, 2022 03:17. Revision #10070
- After making any connections to your unit, activate the AXR by pressing the Power On button on the front of the unit.
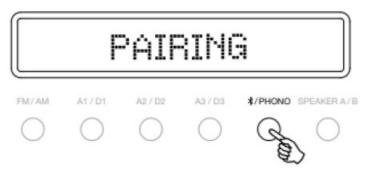
SELECTING THE SOURCE

- Press the Source button on the front of the unit corresponding to your desired source. Alternatively, you may use the appropriate button on the remote control.
- **Note:** There will be no sound from the receiver if the correct input source button isn't selected.

BLUETOOTH
To connect a Bluetooth device to AXR:

1. Press the Bluetooth/Phono button on the front panel or the Bluetooth button on the remote.
   "PAIRING" will show on the display.

2. Consult the instructions of the Bluetooth device to connect to AXR. When successfully connected the display will show your device name.

Note: To add another Bluetooth device, Press and hold the Bluetooth/Phono button to disconnect the current connection and repeat step 2.
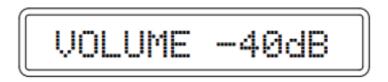The AXR will store up to 8 paired Bluetooth devices.

BLUETOOTH TROUBLESHOOTING GUIDE

- If you are having problems connecting your Bluetooth device to the AXR, please try the following troubleshooting steps:
- Ensure that the Bluetooth source has been selected and the AXR is in 'Pairing' mode.
- Ensure that your Bluetooth device is in pairing mode and not already connected to another Bluetooth unit.
- Forget the AXR from your devices' list of discoverable Bluetooth items and start the pairing process again.
- Perform a factory reset on the AXR (see 'Factory Reset' section below).

ADJUSTING THE VOLUME

- Use either the Volume Up/Down buttons on the remote control, or the Volume control on the front panel of your unit to change the volume level.
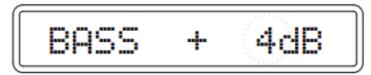- The newly selected level will be indicated briefly on the front display.

- The volume is displayed in minus dB. 0dB is the highest level.
- A progressively larger negative number indicates the volume is being reduced.
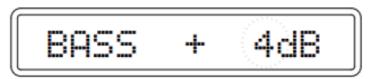
VOLUME -40dB

ADJUSTING THE AUDIO SETTINGS
Adjustments to the bass, treble, and balance can be made as follows:

1. To enter the audio menu. Press either the Menu button on the front of the unit or the remote control.

BASS + 4dB

2. Step through the available settings by pressing the Menu button. The settings available are in order; Bass, Treble, and Balance.
3. When you wish to adjust bass, treble, or balance, simply rotate the Volume control or use the Volume control buttons on the remote control.

BASS + 4dB

4. To exit, wait for five seconds until the unit returns to normal mode.
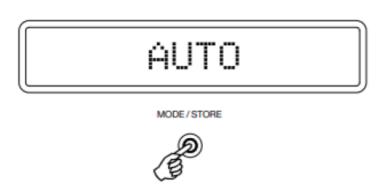
TUNING AND LISTENING TO THE BUILT-IN TUNER
Select the Tuner source using the FM/AM button on the front of the unit, or directly by pressing the FM or AM buttons on the remote.

FM 87.50MHz

FM/AM   A1 / D1   A2 / D2   A3 / D3   ♩/PHONO   SPEAKER A/B

Repeatedly pressing the FM/AM button on the front of the unit switches between FM and AM modes.
Note: For ease of tuning on first-time use, we recommend that you set the AXR to 'Auto' mode. Press the Mode/Store button on the front of the unit.

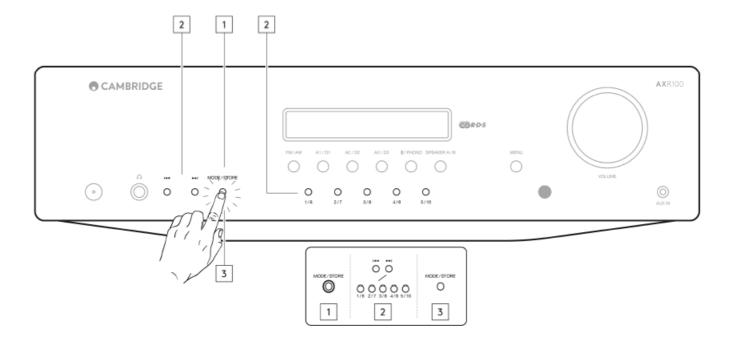- This button cycles through Preset, Auto, and Manual, modes.

MODE / STORE

- When Auto mode has been selected, press the reverse 'Skip/Scan' button to scroll down through the station frequencies or press the forward 'Skip/Scan' button to scroll up through the station frequencies.
- The tuner will stop at the first strong signal it finds. To move to another station simply press the reverse or forward 'Skip/Scan' button again.

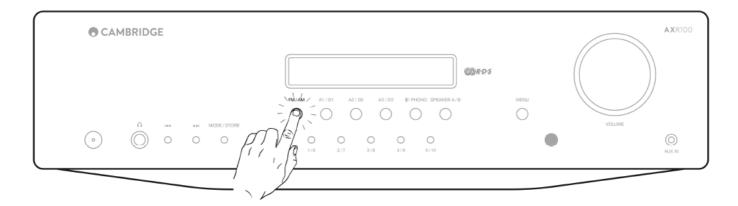**STORING AND REALLOCATING RADIO PRESETS**
To assign a radio station to a preset, or reallocate an existing preset to a new preset location, please follow the steps below, whilst listening to the frequency or station you wish to store:

1. Press and hold the 'Mode / Store' button.
2. Use the 'Skip / Scan' button or 'Preset' buttons to select the preset location for the station to be stored to.
3. Press the 'Mode / Store' button again to confirm your selection.
4. The radio station will now be assigned to your chosen preset.

IMPORTANT: Presets are stored separately for each waveband, meaning that there are 15 preset slots available for FM stations, and 15 preset slots available for AM stations.
Press the 'FM / AM' button to switch between bands, and the banks of FM and AM presets.

Notes: In 'Store' mode, if no button is pressed quickly (within 2 seconds), the unit will come out of 'Store' mode and the preset will not be saved.
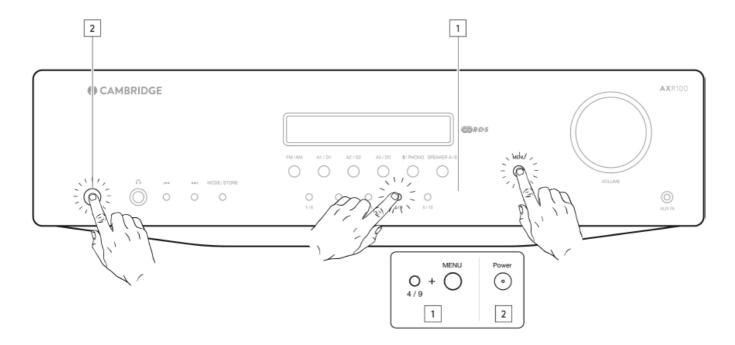
TUNER SETTINGS

It is possible to change the tuner region settings for this unit. This can be necessary if the unit has been moved to a different country.
Two settings are possible which set the correct de-emphasis and tuning steps for either North America or Europe/Rest of the world.
Note: Changing the tuner settings will clear all stored presets. When moving the unit to another region the Voltage Select switch must be set to the correct mains supply voltage by an authorized dealer.
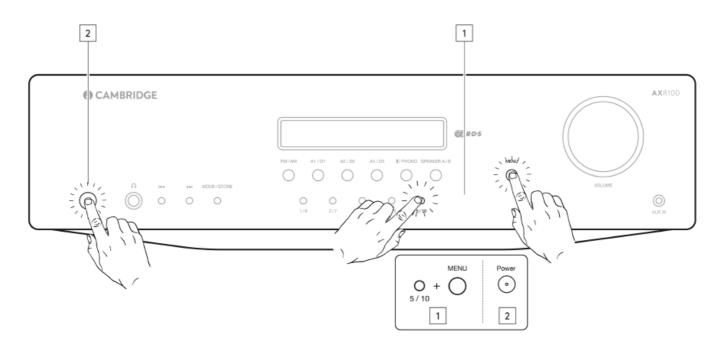
1. Press and hold both the 4/9 and Menu buttons at the same time. The display will show the software revision followed by either a letter 'CU' which represents North America or a letter 'EU' which represents Europe/the Rest of the world.

2. Restart the unit by powering off and on.

FACTORY RESET

To restore the AXR to its factory settings and clear all stored presets for both AM and FM:

1. Press and hold both the 5/10 and Menu buttons at the same time. The unit will display 'Reset'.
2. Restart the unit by powering off and on.

Troubleshooting

- Last updated: August 8, 2022 03:02. Revision #10069

THERE IS NO POWER

- Ensure the AC power cord is connected securely.
- Ensure the plug is fully inserted into the wall socket and is switched on.
- Check the fuse in the mains plug or adaptor.
- Check the power is on at the front of the unit.

THERE IS NO SOUND

- Check the correct input source is selected on the front panel.
- Check that the speakers are connected correctly.
- If using the tuner, check aerial connections, and an available station is selected.
- Check the unit is not in mute mode.
- Check the Speaker A/B configuration matches your speakers.

THE SOUND IS DISTORTED

- Check aerial connections and placements.
- Check speaker connections.
- Check that an appropriate source is connected to the selected input. (I.e. no line level source connected to the phono input.)

THERE IS A HUM COMING FROM THE SPEAKER

- Ensure that all cable connections are secure, particularly ground/shield connections for turntables.

THERE IS UNWANTED BACKGROUND NOISE AND INTERFERENCE

- Move the unit away from other electrical equipment that is likely to cause interference.
- Re-orientate the aerial.
- Ensure that all cable connections are secure, particularly ground/shield connections for turntables.

THE REMOTE HANDSET WILL NOT FUNCTION

- Check that the batteries have not expired.
- Ensure that nothing is blocking the remote sensor.
- Ensure you are not using the buttons with blue-colored icons that are only to operate a matching AX CD player. (See the 'Remote Control' section.)

OVER TEMPERATURE PROTECTION

- The unit has an over-temperature and shutdown protection. If the unit is continuously used for a long period and overheats, the unit will shut down. Leave the unit 'OFF' for 10 minutes to cool down, then turn the unit on to continue listening.
- If the problem persists, then the unit is being overdriven. Reduce the volume level, and ensure the unit is in an open ventilated area to resolve the problem.
- The use of two pairs of speakers that are less than 8 Ohms can cause overloading and is not recommended.

UNABLE TO STORE RADIO PRESETS

- Follow the 'Storing Radio Presets' guide in the 'Operating Instructions' section.

THERE IS NO AUDIO/SIGNAL WHEN PLAYING RADIO

- Ensure that appropriate FM and AM antennas are securely connected.
- Select the Tuner source using the FM/AM button on the front of the unit.

Technical specifications

Last updated: July 29, 2022, 10:29. Revision #9844

- **AXR85**
- **Power output:**
  - 85 watts (into 8Ω)
- **THD (unweighted):**
  - <0.01% @ 1kHz, 80% of rated power
  - <0.15% 20Hz – 20kHz, 80% of rated power
- **Frequency response (+/-1dB):** 5Hz – 50kHz
- **S/N ratio (ref 1W):** >82dB (unweighted)
- **Input impedances:** 47k ohms
- **Power Amp damping factor:** >50

- **Standby power consumption:** <0.5W
- **Max. power consumption:** 500W
- **Bass/Treble controls:** Shelving, ultimate boost/cut +/- 10dB @ 100Hz and 20kHz
- **Subwoofer output:** 200Hz 2nd order L+R Level follows volume setting
- **Dimensions:** 110 x 430 x 340mm (4.3 x 16.9 x 13.4")
- **Weight:** 8.1kg (17.8lbs)
- **Bluetooth:** 5.0 A2DP/AVRCP supporting SBC

TUNERS Bands:

- **European**
    - AM (522-1629kHz)
    - FM (87.5-108MHz)
- **US**
    - AM (530-1710kHz)
    - FM (87.5-108MHz)
- **Aerial inputs:** FM 75 ohms, Coaxial. AM 300 ohms wire loop/ single wire.
- **Signal to noise:** 60dB typical (FM)
- **Distortion:**
    - <0.4% @ 1kHz 50kHz deviation (FM mono)
    - <0.6% @ 1kHz 50kHz deviation (FM stereo)
- **AXR100**

  Power output:
    - 100 watts (into 8Ω)
- **THD (unweighted):**
    - <0.01% @ 1kHz, 80% of rated power
    - <0.15% 20Hz – 20kHz, 80% of rated power
- **Frequency response (-1dB):** 5Hz – 50kHz
- **S/N ratio (ref 1W):** >82dB (unweighted)
- **Input impedances:** 47k ohms
- **Power Amp damping factor:** >50
- **Standby power consumption:** <0.5W
- **Max. power consumption:** 550W
- **Bass/Treble controls:** Shelving, ultimate boost/cut +/- 10dB @ 100Hz and 20kHz
- **Subwoofer output:** 200Hz 2nd order L+R Level follows volume setting
- **Digital inputs:**
    - PCM 16-24-bit
    - S/P DIF Co-axial 32-192kHz
    - TOSLINK Optical 32-192kHz
- **Dimensions:** 110 x 430 x 340mm (4.3 x 16.9 x 13.4")
- **Weight:** 8.1kg (17.8lbs)
- **Bluetooth:** 5.0 A2DP/AVRCP supporting SBC

TUNERS Bands:

- **European**
  - AM (522-1629kHz)
  - FM (87.5-108MHz)
- **US**
  - AM (540 – 1700kHz)
  - FM (88 – 108MHz)
- **Aerial inputs:** FM 75 ohms, Coaxial. AM 300 ohms wire loop/ single wire.
- **Signal to noise:** 60dB typical (FM)
- **Distortion:**
  - <0.4% @ 1kHz 50kHz deviation (FM mono)
  - <0.6% @ 1kHz 50kHz deviation (FM stereo)

FAQ

Last updated: December 12, 2022, 04:17. Revision #9836

- **What amplifier class is the AXR85/100?**
  - The AXR85 and AXR100 use class AB amplification.
- **Can I use 4 or 6 Ohm speakers with the AXR85/100?**
  - You can use a pair of 4 or 6-ohm speakers, but we do not recommend using two pairs of 4 or 6-ohm speakers with the AXR as this could result in the amplifier overheating, which in the long run could damage the unit.

For upcoming news on future products, software updates, and exclusive offers, make sure you register your product at **https://www.cambridgeaudio.com/register**.

Documents / Resources

AXR85/100	**Cambridge Audio CXN100 Network Player Receiver** [pdf] User Guide CXN100 Network Player Receiver, CXN100, Network Player Receiver, Player, Receiver

References

- ⊙ **Register your product | Cambridge Audio UK**
- ⊙ **Register your product | Cambridge Audio International**
- **User Manual**