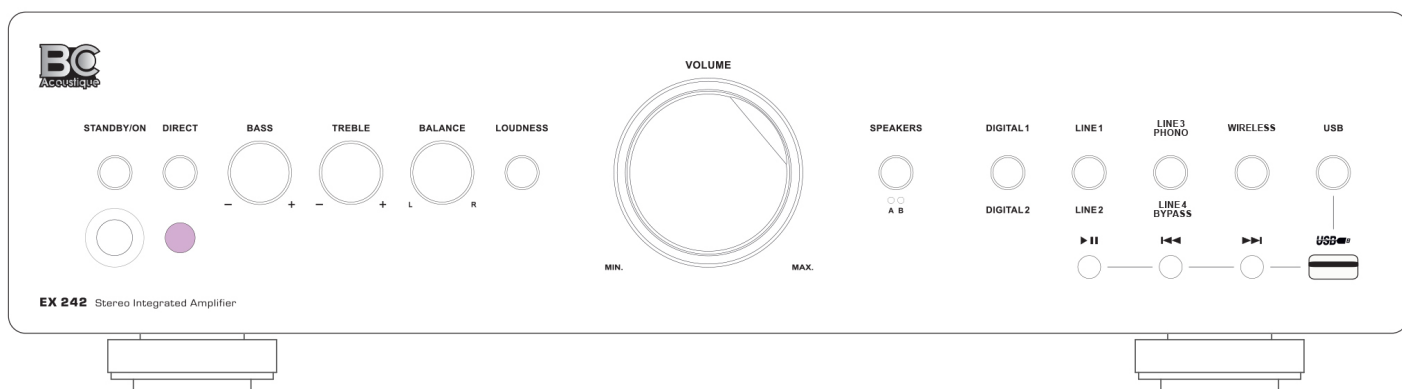# EX242

Stereo Integrated Amplifier

OWNER'S MANUAL
MODE D'EMPLOI
MANUEL DEL USUARIO
BEDIENUNGSANLEITUNG

ENGLISH

FRANCAIS

ESPAÑOL

DEUTSCH

Dear Customer,

Thank you for choosing a BC Acoustique product. Its implementation has been our know-how, both in terms of design to the manufacturing. Electronic components and mechanical parts correspond to the selection criteria of very high quality. Operation and finish of each product have been checked before delivery. To obtain best results, please read the advice contained in this document.

Summary

Safety instructions

We invite you to read the instructions on the proper use of your product carefully. They will ensure the proper functioning of the latter and it safely.

- Do not use this device in a wet area or near water.

- Clean only with a dry cloth. As a precaution it is best to unplug the unit before handling.

- Never cover the ventilation of the unit. Be sure to install the unit in a well ventilated location.

- Do not install near heat sources.

- Take great care of the power cord and plugs electrical connection. In particular, do not walk, or press the power cord, specifically at plugs, power plant and the output of the power supply.

- Use only parts and accessories recommended by BC Acoustique.

- Be sure to use an appropriate power supply to the power jack on the unit outlet. Especially if the device is equipped with a ground, it is necessary to use it.

- Unplug the apparatus during lightning storms or when not in use for a long time.

Glossary

The CE mark indicates that this product complies with European directives called «low voltage» (2006/95/EC), Electromagnetic Compatibility (2004/108/EC) and apply eco-design requirements for energy products (2009/125/EC) when the appliance is installed and used in accordance with the user manual.

For continued compliance only BC Acoustique accessories must be used with this product and servicing must be performed by specialized and qualified staff.

The WEEE symbol is that of the European Union regarding the recycling of electrical and electronic equipment. It indicates that this product contains electrical and electronic components that can be reused, recycled or recovered. Therefore this product should not be disposed of in your regular trash.

Thank you to return the unit or contact your authorized dealer for more information.

This symbol alerts the user to the presence of «dangerous voltage» uninsulated which may pose a risk of electric shock to the user.

This symbol alerts the user that the documentation that comes with the device contains important instructions for maintenance and proper use of the product.

Recommandations

In the case of headphones, do not use it to excessive noise. Otherwise, prolonged listening at high volume levels may cause permanent damage to your hearing.

When disposing of used batteries, please comply with governmental regulations or rules defined by the public statements relating to the environment applicable in your country.

Never expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire, etc ...

Product recycling

At the end of its useful life, this product should not be disposed of with regular garbage, but returned to a collection point for the recycling of electrical and electronic components. This point is emphasized by the symbol on the product, the instruction manual and on the packaging.

The materials can be reused in accordance with their markings. Through reuse and recycling of raw materials or any other form of recycling, you make an important contribution to environmental protection. Your municipality can tell you where is the point of the nearest collection site.

Location and precautions

Avoid placing it in direct sunlight or near a heat source. No source of light shall be placed on the apparatus. Also avoid all sources that could cause vibration, dust, cold or moisture. The recommended ambient temperature range is 5-35 °C.

The device must be installed on a stable, level surface. Do not place the unit on an unstable surface or shelf. The unit may fall, causing serious injury to a child or adult as well as serious damage to the product. Do not place other equipment on top of the unit.

Due to stray, turntables or CRT TVs magnetic fields should not be located near the unit to avoid possible interference.

Power sources

The unit should be operated only from the type of power source indicated on the label. If you are unsure of the type of power available to you, thank you to contact your dealer or the company responsible for the power supply in your area.

Turn off device if you do not intend to use this unit for a long time.

In case of prolonged absence from home, it is recommended to unplug from the electrical outlet.

Make sure each cable is correctly inserted. To prevent hum or background noise, do not mix different other antenna cable with the power cord or speaker wires.

Warranty

BC Acoustique warrants this product parts and labor (under the conditions specified below).

BC Acoustique will repair or replace (at its discretion) this product or any defective parts. The warranty period may vary by country. If in doubt, contact your dealer. Always retain proof of purchase of this product.

For warranty service, please contact the BC Acoustique authorized reseller from which you purchased this product. If your dealer is not itself repair the product, it can be sent to BC Acoustique authorized after-sales service. If necessary, you will need to ship this product in its original packaging or packaging affording an equal degree of protection.

Proof of purchase such as an invoice stating that the product is covered by the Guarantee must be presented for any warranty claims.

This warranty is void if:
- The factory serial number has been altered or removed.

- This product was not purchased from an authorized reseller BC Acoustique. To confirm that the serial number has been altered or that the product was purchased from an authorized reseller BC Acoustique, you can call BC Acoustique or distributor in your country.

- If the power supply cord or plug is damaged.

- If liquid has been spilled or if objects have fallen inside.

- If the unit has been exposed to rain or water.

- If the unit is dropped or damaged in any way.

- This warranty does not cover cosmetic damage or damage caused by or due to force majeure, an accident, mis use, abuse, negligence, commercial use or modification of part any product.

- This warranty does not cover damage caused by or resulting from misuse, a maintenance or improper installation or repairs made or attempted by anyone other in BC Acoustique or not BC Acoustics dealer or technician approved, authorized to carry out maintenance and repair under warranty for BC Acoustique. Any unauthorized repairs will void this warranty. This warranty does not cover products sold «AS IS».

- REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER.

- BC ACOUSTIQUE NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

ENGLISH

Warranty

- Some countries do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties. Therefore, the limitations or exclusions herein may not apply. This warranty gives you specific legal rights, in addition to other rights which vary from state to state or country to country.

Basic instructions
Quick starting guide

Make sure that the device is not plugged into the mains before making any connections. It is also recommended to turn off or disconnect all other devices associated while making connections to the product.

Connect the speakers to the speaker terminals on the back and the sources of the corresponding input jacks on the back. Connect the power cord to the connector on the one hand AC Mains product and the other to a wall outlet.

IMPORTANT: Make sure you have set the voltage selector (⑤ page 5) to suit your country: INPUT VOLTAGE: **AC110 (USA)** and **AC230 (EUROPE).**

Turn the POWER switch ON (located on the rear panel).
If the unit is equipped with a standby, then press the STANDBY button to turn it on.
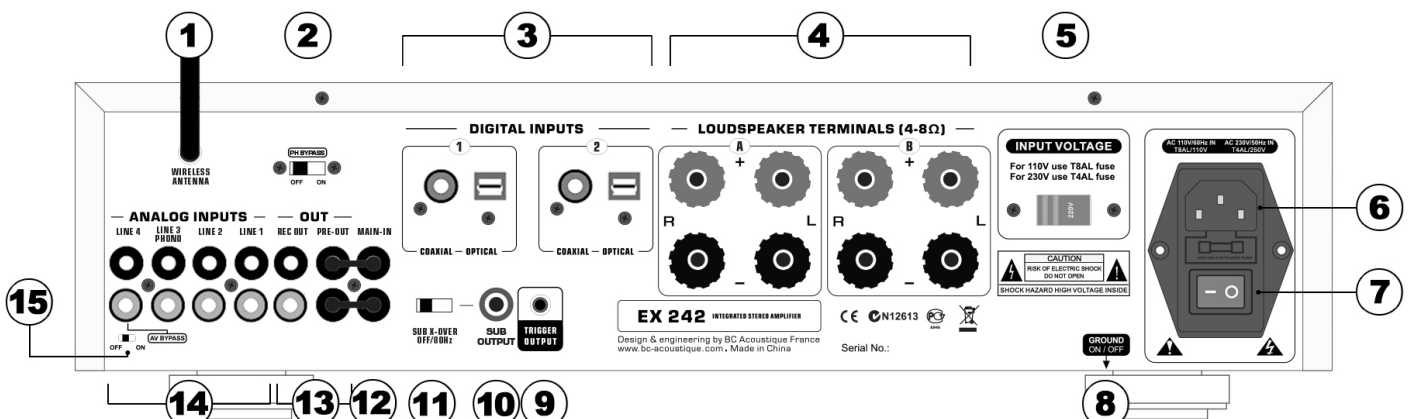
Press the input selector for the source you want to hear.

Rear panel
Connections to the amplifier

WARNING: Be sure to turn off the power on your product before making any connections. Similarly it is best to cut the power of other devices you want to connect to your amplifier.

① **WIRELESS ANTENNA**
This connector is for receiving a WIRELESS antenna. The supplied antenna is mounted directly to the back of the unit. It is possible to obtain an optional WIRELESS long-range antenna.

Connections to the amplifier

② **PH BYPASS (ON/OFF) - LINE 3 input**
The Line 2 input is for connecting a turntable or a line level source. Set the PH BYPASS to ON when you connect your turntable and on OFF if you connect another source such as a CD player.

In order to be able to use a turntable, it is necessary to use a compatible "phono preamplifier" with the used cell.
The EX-242 built-in phono preamplifier is compatible with MM (Moving Magnet) cells.

③ **DIGITAL 1 and DIGITAL 2**
Your amplifier has a built-in digital-to-analog converter. Therefore it is possible to connect a digital source (such as most modern television screens) on DIGITAL 1 and another source on DIGITAL 2.

To ensure compatibility with all existing types of digital terminals, the DIGITAL 1 panel has an «optical» socket and a «coaxial». However this entry is unique and it is possible to listen one device at a time even if both are connected.

④ **LOUDSPEAKER TERMINALS**
Connect the speaker to the terminals marked RIGHT «+ R» and «R -» ensuring that «R +» is connected to the «+» terminal of the enclosure and «R -» is connected to the terminal «-» the same enclosure. Connect the LEFT speaker to the terminals marked «L +» and «L -» by doing the same.

Make sure that no wires are not insulated can bypass the speaker outputs. Make sure that the speaker terminals are tight enough to ensure a good electrical connection. If the terminal screws are not tight enough, the sound quality may be affected. Use only dedicated wire to the speaker (a section of 1.5 mm² or more is recommended especially if the cable length is greater than 3m).

Important Note: Check the impedance of your speakers. When using a pair of speakers, you can use speakers with an impedance of between 4 and 8 ohms.
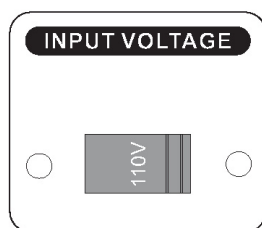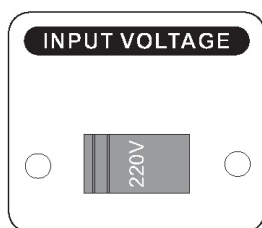
⑤ **INPUT VOLTAGE**

IMPORTANT: Before turning on your amplifier, check that you have positioned the voltage selector based on your geographic location: AC110V (USA, etc ...) and AC230V (EU, etc ...).

Connections

Also be sure to use a fuse appropriate for the selected voltage sector:

220V for Europe
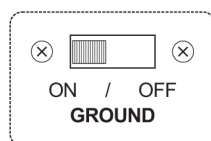fuse T4AL/230V

110V for USA
fuse T8AL/110V

⑥ AC MAIN INPUT
Once all connections to the amplifier done, plug the power cable into an outlet. Your amplifier is now ready for use.

⑦ POWER: ON / OFF BUTTON
This switch allows shutdown or operation of the amplifier.

Under the amplifier

⑧ SWITCH ANTI-HUM (GROUND ON / OFF)

Your amplifier has a mains socket outlet with a ground connection. The use of this type of connection is recommended for electrical safety reasons (including wetlands). However sometimes this connection «mass» is the origin of «hum» audible from the speakers in a hi-fi system to solve this problem, the cancellation of the ground connection is sometimes sufficient. To do this you have, under the device, a switch to choose to connect or not the mass of the device to the mains.

⑨ TRIGGER OUTPUT
This 3.5 mm Jack mono output is used to activate or desactivate remotely auxiliary devices connected to the amplifier. When the unit is turned on, the output is switched to 12V. When the unit is turned off, the trigger output is 0V.

⑩ SUBWOOFER OUTPUT
This RCA output correspond to the sum of the left and right channels (mono). It is intended to be connected to an optional subwoofer.

⑪ X-OVER OFF/80Hz
The RCA SUB output might be connected to an optional subwoofer. The sub audio signal can be tuned depending on the subwoofer type. When the switch is « OFF », the signal is full range without any filtering. If the position is « 80 Hz », then the audio signal is filtered for the frequencies over 80Hz.

⑫ MAIN-IN (RCA)
This input is used to directly connect the preamplified output of another amplifier. You can enjoy the musicality of the high-fidelity amplifier's power stages to listen to the many audio sources accessible with a connected home theater amplifier.

⑬ OUTPUTS (RCA)

REC
It allows to retrieve the selected amplifier to «source» level audio signal that is independent of the level volume control. This output is traditionally used to connect the amplifier to a recording device.

PRE OUT
This output allows you to use the amplifier as a preamplifier and Therefore connect a power amplifier to upgrade the system.

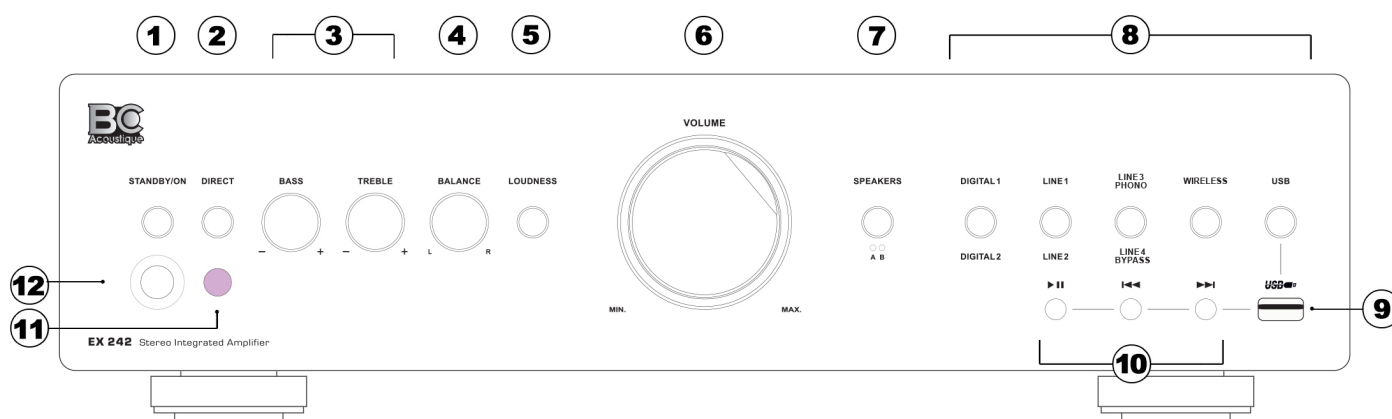## ⑭ ANALOG INPUTS (RCA)
The LINE 1 to LINE 4 inputs are designed to connect sources «line level» to your amplifier. These inputs are designed for so-called «analog» signals (as opposed to «digital» signals). Compatible cables are made with these type «RCA», they are traditionally identified by a color code «RED» for the RIGHT channel and «WHITE» for the LEFT channel.
LINE 4 input has an option "AV BYPASS"

⑮ AV BYPASS (ON/OFF)
The LINE 4 input has an option "AV BYPASS" which takes you through the amplifier without using amplification part. This is very useful if you wants, for example, connect your speakers directly on another AV amplifier output.

Connections and uses

① STANDBY ON (SLEEP MODE)
This button allows you to turn the device in Sleep mode to conserve energy while not performing his primary function or to resume the device in active mode.

② DIRECT
If this function is activated (light signal active), then the BASS and TREBLE functions are disabled. The purpose of this function is to shut down the electronic circuit's tone control in order to best preserve the purity of the music signal.

TONE CONTROL AND BALANCE
These functions on music signals output from the speakers and the line output (RCA) outputs. They are not active on the REC output (for recording the original signals).

③ BASS and TREBLE
The button «BASS» setting can act on the relative level of low frequencies to alter the tonal balance of the sound to suit your room acoustics and your tastes. The «TREBLE» button for meanwhile high frequencies.
When these buttons are in the middle position, it means that the tonal balance is not changed. The adjustable range is ± 10 dB (knob turned in the direction of clockwise) and - 10 decibels (knob turned anticlockwise).

④ BALANCE
This command allows you to adjust the relative output levels of the left and right channels. In the center position, the output level of each channel is equal.

⑤ LOUDNESS
Musical recordings are made with devices that are designed to keep the musical balance as at a concert. When reproducing the same quality is desired by the listener. This is the entire chain, from microphone to the listener's ears to be faithful.
The Loudness function object to «compensate» the peculiarity of the human ear. Thus, we invite you to «activate» the button when you listen at low volume.

⑥ VOLUME
This knob adjusts the output volume of the amplifier at the speaker outputs.

⑦ SPEAKERS A-B
By successive pressures, this switch allows you to listen to your music either on the speakers connected on the A terminals or on those connected on the B terminals or, on all speakers connected on the A and B terminals (A+B).

⑧ SOURCE SELECTOR
These buttons select the active input of the amplifier and the signal sent to the speakers, to headphones and Preamp output and REC LINE. The buttons on the remote control are identical to those buttons. On the front of the EX-242, press the button once corresponding to the source you want to hear so that the LED on the button frame lights up in white for DIGITAL 1/LINE 1/ LINE 3/PHONO/WIRELESS/USB sources. By pressing the same button again, the LED will be diplayed in red to listen to the DIGITAL 2/LINE 2/LINE 4 sources.

DIGITAL 1 and DIGITAL 2
These buttons activates digital inputs on the back of the amplifier. It allows listening to the digital source connected to the amplifier with integrated digital-to-analog converter.

LINE 1 to LINE 4
These keys are used to select the sources connected to the RCA inputs (line level) of the same name located on the rear panel of the amplifier.

The LINE 3 input can also be used for connecting a turntable. Most turntables have outputs in the "RCA" format but whose signal is not compatible with the "line inputs" of the amplifiers. To be able to use a turntable, it is necessary to use a compatible "phono preamplifier" with the used cell. The EX-242 built-in phono preamplifier is compatible with MM (Moving Magnet) cells.

Connections

WIRELESS

This key enables the WIRELESS connection to listen to music from your Smartphone or other WIRELESS sources.

Connection between the EX-242 and your smartphone: Turn on the EX-242, then press the WIRELESS function located on the remote control or on the button at the front of the amplifier. Wait a few minutes (2 or 3) then refresh your Smartphone to find the WIRELESS network entitled: « BC-EX242 ». Thus, your smartphone is connected as a multimedia player.

⑨ USB PORT

This button selects the listening to digital files you have stored on your USB drive that will be connected to the USB port on the front of the unit.

⑩ USB Control buttons

PLAY / PAUSE (▶II)

Press this button to start playback or resume playback after Pause.

During playback, press this button to pause playback. To resume playback at the exact time of the pause, press again "PLAY / PAUSE."

SKIP / SCAN

Press I◀◀ or ▶▶I to move to the next or previous track. Forward or backward in an accelerated manner, hold the I◀◀ or ▶▶I button continuously. The optical pickup is then read before the recording or backward at high speed.

⑪ IR SENSOR

This window receives IR commands (Infra Red) from the remote control. It is essential that there is no obstacle between the remote control and the sensor.

⑫ PHONE - HEADPHONES OUTPUT

Make sure the volume control is turned down before connecting or disconnecting headphones. Listening at high levels can cause permanent hearing damage.

This taken Jack size 6.35 mm allows connection of stereo headphones. It is advisable to use a listener with an impedance between 32 and 600 ohm headphones.
When the headset is connected, the output to the speakers are then cut.

WIRELESS device playback

The EX-242 offers the possibility to listen wirelessly to music played by WIRELESS devices like Smartphones. These devices must be paired in order to communicate.

Note: You also need to run your other WIRELESS device to pair to the EX-242.

PARING YOUR WIRELESS DEVICE

1 - On the front of the EX-242, repeatedly press the "INPUT" button to select "WIRELESS" mode. Otherwise, press the button DAC on the remote.

2 - Turn on WIRELESS communication on the other WIRELESS device (your smartphone, tablet ...).
Your device should automatically receive the EX-242 WIRELESS signal.

3 - Select the device named "BC-EX242" on your WIRELESS device to connect the stereo system.

If you have not managed to connect or see the EX-242 on the screen of your device, you have to start pairing again (step 1).

Note: If another WIRELESS device had already managed to connect the EX-242 will automatically try to reconnect to the same device.

Specifications

Preamplifier section
Line level inputs (LINE 1 to LINE 4)
Sensitivity: 200 mV
Impedance: 50 pF kOhms/100
Maximum input level: 7 V

Corrections
Bass (± 10 dB at 100 Hz)
Treble (± 10 dB at 10 kHz)

Amplifier Section
Continuous average power into 8 ohms: 2 x 100 W
Continuous average power into 4 ohms: 2 x 150 W
Distortion: 0.01% (20 Hz - 20 kHz)
Signal / noise ratio: 100 dBA

Digital-to-analog converter
The interface is entrusted to a Cirrus Logic CS8416 chip and the digital-analog conversion is supported by a PCM1973 circuit from Texas Instrument. The DAC is compatible with digital signals up to 24bits/96kHz from coaxial and optical inputs.

Phono input
Input impedance: 47 KΩ / Gain: 45dB
Frequency band (± 0.2dB of RIAA) : 10Hz - 60KHz
Distortion (1kHz, 1W, 8Ω) < 0.003%

Connectors Front side
1x Headphone output (jack 6.35mm)

Connectors Rear side
4x Line inputs (LINE 1 to LINE 4 with AV BYPASS)
1x Phono input (on LINE 3) with PH BYPASS button
2x Optical inputs
2x Coaxial inputs
1x WIRELESS antenna
1x PRE-OUT and MAIN-IN
1x REC output
4x Speaker terminals screw-compatible banana plugs
1x AC power input

Included accessories
1x Detachable power cord
1x WIRELESS antenna
1x Remote control RC-EX4
2x Batteries (AAA) for remote control
1x Manual guide

General
UNIT
Dimensions (W×H×D): 430 x 111 x 461 mm / Weight: 11.8 kg

BOX
Dimensions (W×H×D): 520 x 200 x 560 mm / Weight: 14.1 kg
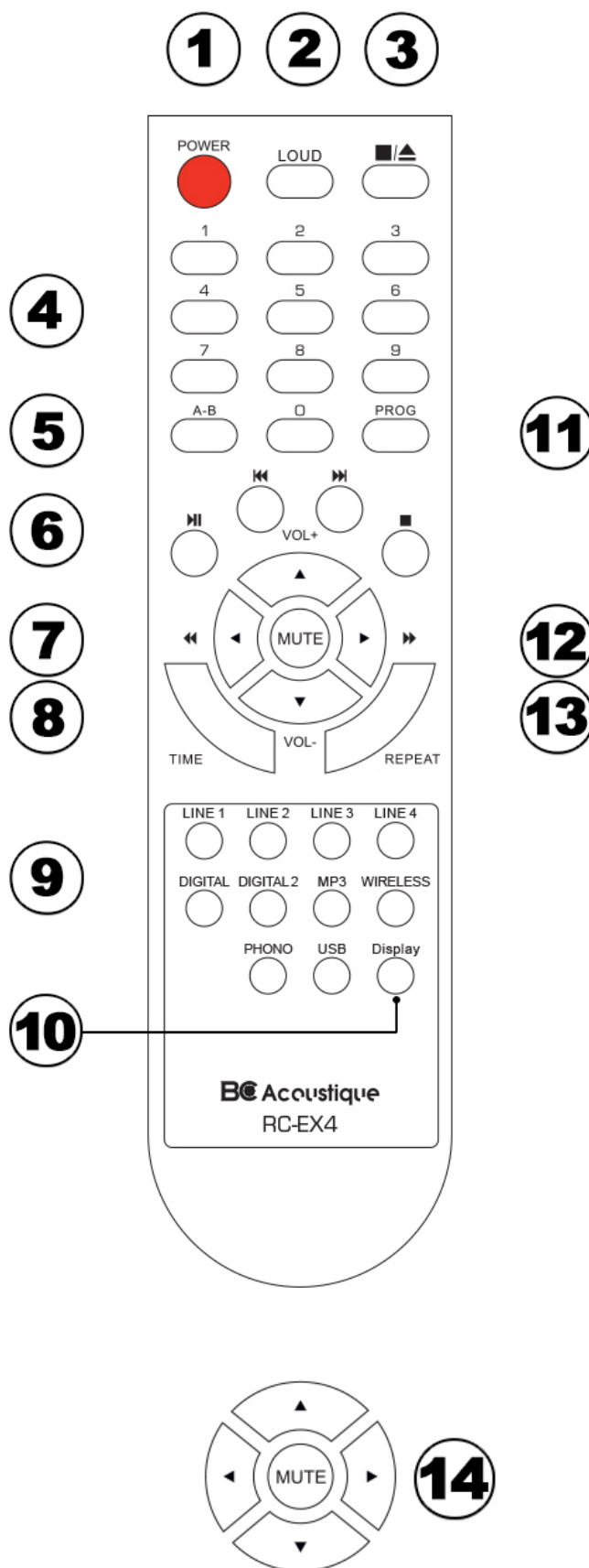
EX-242 EAN CODE: 0634654606211

Specification and appearance are subject to change without notice. Weight and dimensions are approximate. Illustrations in this manual might differ slightly from production models.

Remote control

The amplifier EX-242 comes with the RC-EX4 remote control.

①   POWER: This button allows you to pause or resume from standby different electronic devices BC Acoustique with this feature.

②   LOUD: Activates the LOUDNESS function

③   STOP/EJECT

④   1...9.0: Keypad / Track selection

⑤   A-B : Input (A) an output (B) selectors to play repeatedly this selection from a track.

⑥   PAUSE/PLAY   PREV   NEXT   STOP

⑦   MUTE: Use this button to mute the sound.
To cancel muting, press MUTE again or change the volume setting.

⑧   TIME: Displays the remaining time of the current track.

⑨   Sources selection buttons:
DIGITAL 1 and 2 - LINE 1 to 3 - MP3 - USB - WIRELESS and PHONO.

⑩   Display: Displays information about all modes, settings and indicators of the CD player.

⑪   PROG: In CD mode, or USB, use this button to enter playback mode Programmed device. To memorize the order of tracks to listen to, press "PROG" then the number of the desired track. Repeat until the end of your program, then press the "Play / Pause" button to start listening.

⑫ |◀◀: Skip to the previous track / file
▶▶|: Skip to the next track / file

⑬   REPEAT: Repeating the current track or all the tracks.

⑭   ▲: VOL +
▼: VOL -
◀: 9 seconds reward jump (CD/USB)
▶: 9 seconds forward in the track (CD/USB)

ENGLISH

Troubleshooting

Here you will find a number of fault description and possible solutions we invite you to read in order to ensure the possibility of an actual breakdown of your device.

The unit does not turn on
- Make sure the power cord is properly connected.
- Make sure the plug is fully inserted into the wall outlet and there is power.
- Make sure the amplifier is turned on.
- Check the fuse in the mains plug or adapter if necessary.

There is no sound
- Make sure the unit is not in Standby mode.
- Check that the source component is connected properly.
- Make sure your speakers are properly connected.

One channel no sound
- Make sure the balance control is in the correct position.
- Check the speaker connections.
- Check interconnections.

A loud humming or buzzing is noticeable
- Make sure that interconnect cable is loose or defective.
- Make sure your tape deck or turntable is not too close to the amplifier.

The bass is weak or the stereo image is diffuse
Make sure the speakers are not in phase.

The sound is distorted
Make sure that the control settings of volume or tone is not too high.

The remote control does not work
- Check that the batteries have not expired.
- Make sure nothing is blocking the remote sensor.

WIRELESS - The sound stops or there is noise
If a device such as a microwave oven or wi-fi transmitter generates electromagnetic waves near the 2.4 GHz band, it can affect the connection or broadcast quality. In this case, install the EX-242 at a greater distance from this unit.

WIRELESS - The transmission is interrupted
- The device connected to the EX-242 is perhaps too far. The approximate distance transmission WIRELESS is about 10m without obstacles.
- Make sure there are no obstacles between the EX-242 and your WIRELESS device.

In case the above solutions do not remedy your problem, check our FAQ section (Frequently Asked Questions) on our website: www.bc-acoustique.com

For repair, during or after the warranty, please contact your dealer.

To obtain warranty service and technical support, thank you kindly to register your product online on the website www.bc-acoustique.com at the product registration section.

BC ACOUSTIQUE
14 Avenue de l'Europe
77600 Bussy Saint-Georges - France
www.bc-acoustique.com

Notes