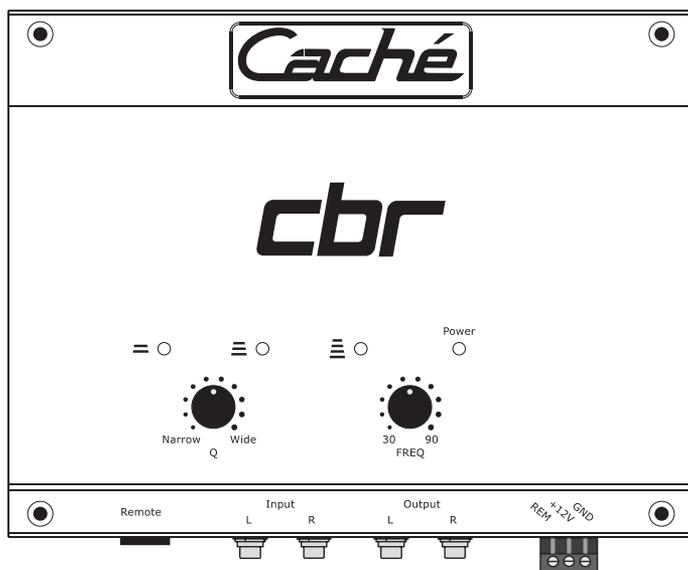


Caché

cbr



BASS RESTORATION

OWNERS MANUAL

Greetings

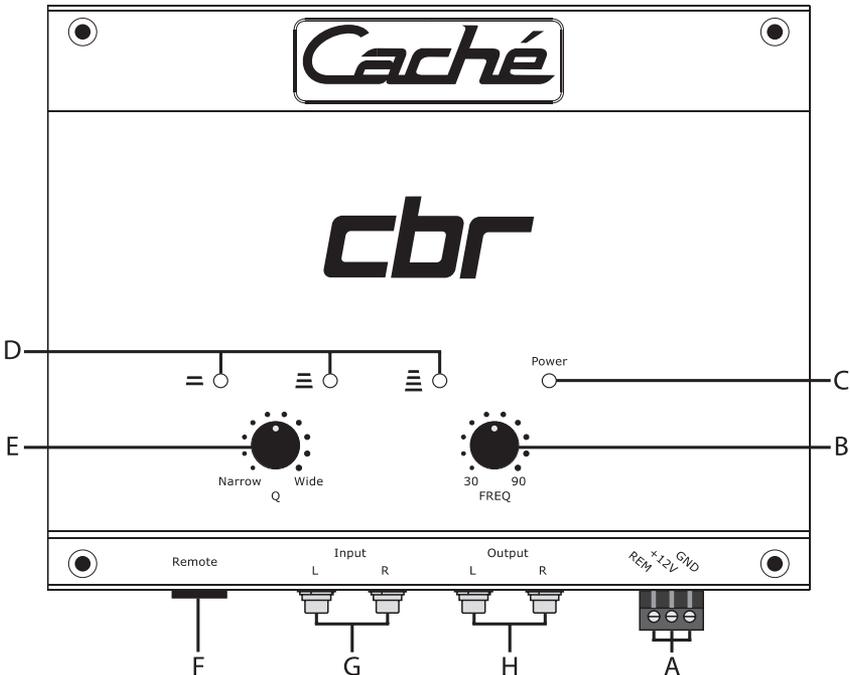
Welcome to Caché Audio Integration Solutions. We believe you will find our products to be as easy to install as they are to use. Our unique OEM integration products offer today's audio enthusiasts an alternative to replacing the factory installed CD receiver or Navigation unit while still enjoying world-class sound quality and performance.

All Caché Products Feature:

- Low Output Impedance
- High Input Impedance
- Flat Frequency Response
- High Output Voltages
- Excellent Signal To Noise Ratios
 - Panel Mount RCA's
- Poly Caps And Low Tolerance Resistors In All Signal Path Circuits
 - Power ON LED
- Removable Terminal Blocks For All Input Connections
 - Proudly Designed And Engineered In The USA

cbr Specifications

•Maximum Input Voltage.....	.8 V
•Maximum Output Voltage.....	.8 V
•THD.....	.01%
•Input Impedance.....	>20K ohms
•Output Impedance.....	.50 ohms
•Signal To Noise.....	>101dB



Operation and Function

- Ⓐ Power Connections-These connections are for input power, chassis ground, and remote turn-on. Use a minimum of 18 gauge wire for power and ground connections. The power wire should be fused with a 1 amp fuse.
- Ⓑ Frequency Adjustment- This controls the center (main) frequency for the bass restoration process. This will be the frequency that is increased the most by the cbr.
- Ⓒ Power Indicator- This LED indicates when the cbr is powered on.
- Ⓓ Maximum Indicator- This LED indicates when the signal level is at its maximum before distortion occurs. When the input "Gain" adjustment is set correctly and the source unit is at its maximum volume this LED should flicker intermittently.
- Ⓔ Q Adjustment- This adjusts the bandwidth of the frequency being restored. When in the narrow position the restored bandwidth will be very small and when in the wide position the restored bandwidth will be very large.
- Ⓕ Remote Level Control- This port is for the remote dash control (Included). This remote dash control has two adjustment knobs. The first allows the user to control the level of gain up to the maximum adjustment level set on the cbr. This control does not add any additional gain, it only attenuates the level at which the cbr's internal adjustment was set at. The second adjustment knob allows the user to adjust the subsonic filter.
- Ⓖ RCA Inputs- These RCA input jacks allow for a normal left and right channel signal input from the source unit.
- Ⓗ RCA Outputs- These RCA output jacks provide signal to your amplifier.

Installation Guidelines

INSTALLATION PRECAUTIONS

- Always mount the unit in a fashion so that it can be easily accessible for making adjustments.
- Avoid mounting the unit to subwoofer enclosures or high vibration areas.
- Do not cover the unit with carpet or any other material.
- Do not mount the unit in the engine compartment or anywhere that it will be subject to high temperatures, (ie, direct sunlight or heater) moisture, dust or dirt.
- Use rubber or plastic grommets to protect wires when routing them through metal.
- Always keep signal wires away from high current power wires.
- The ground connection should always be the first connection made.

WIRING INSTRUCTIONS

Ground Connection (GND)

The main ground connection should be made between the Gnd terminal on the unit and a metal part of the vehicle close to the mounting location. This wire needs to be as short as possible to minimize the possibility of induced noise. You should use 18 gauge wire or larger for the ground connection. The metal point on the vehicle where the ground connection is made needs to have all paint removed and be scuffed down to the bare metal. The ground wire should have a ring terminal soldered to it and be bolted directly to the vehicle with the use of a star washer. Do not ground the unit near existing (factory) ground points. These areas generally have multiple devices grounded to them and can cause induced noise.

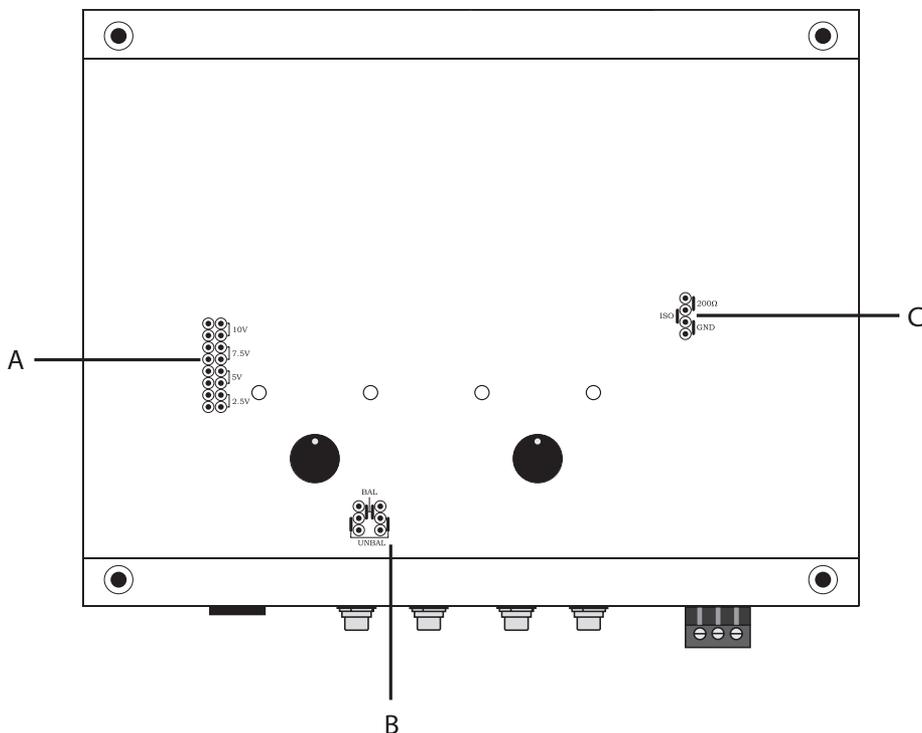
Power Connection (+12V)

The main power connection should be made at the battery. This will ensure that the unit receives the best possible connection to minimize noise. There must be an inline fuse (1 amp) placed in series with the unit. The fuse should be within 18" of the battery. You should use 18 gauge wire or larger for the power connection. The power wire should have a ring terminal soldered to it and be bolted to the vehicles battery. Do not install the fuse in the holder until all the systems connections have been made.

Remote In (REM)

This Caché unit is turned on by applying +12 VDC to the remote turn-on terminal. This terminal should be connected to the remote lead from the car stereo. This remote lead from the source unit will trigger a +12V output only when the car stereo is turned on. If the source unit does not provide a remote turn on you can use the accessory terminal in the cars fuse block. This will however turn the unit on and off with the key, regardless of whether the source unit is on or off.

Internal Jumper Options

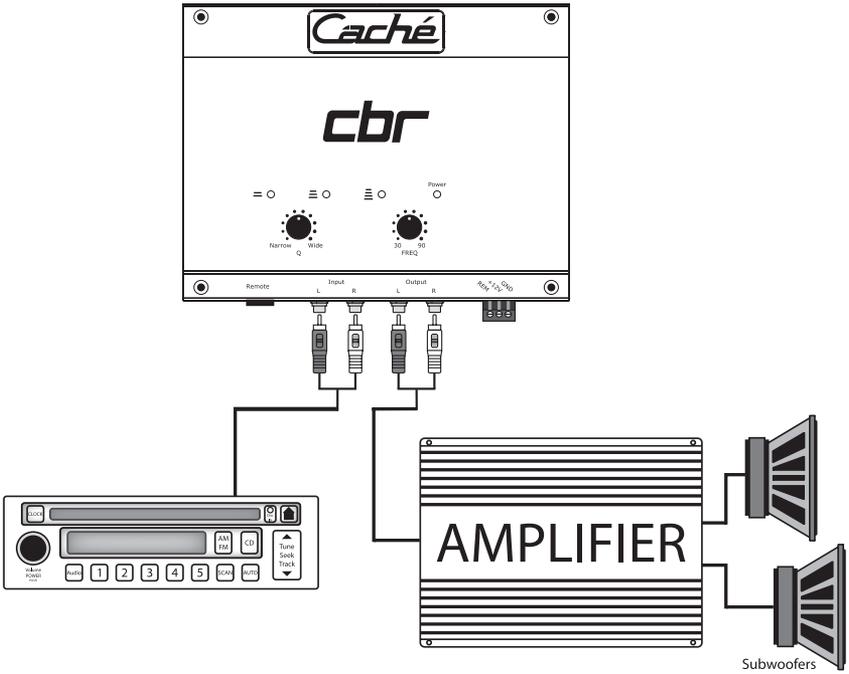


- Ⓐ Output Voltage Jumpers-These jumpers are used to raise or lower the output signal voltage of the cbr. There are four output voltage level positions to choose from (2.5V, 5V, 7.5, 10V). Each position has two jumpers that correspond to it, one for the left channel and one for the right channel. The factory default is the 5V position.

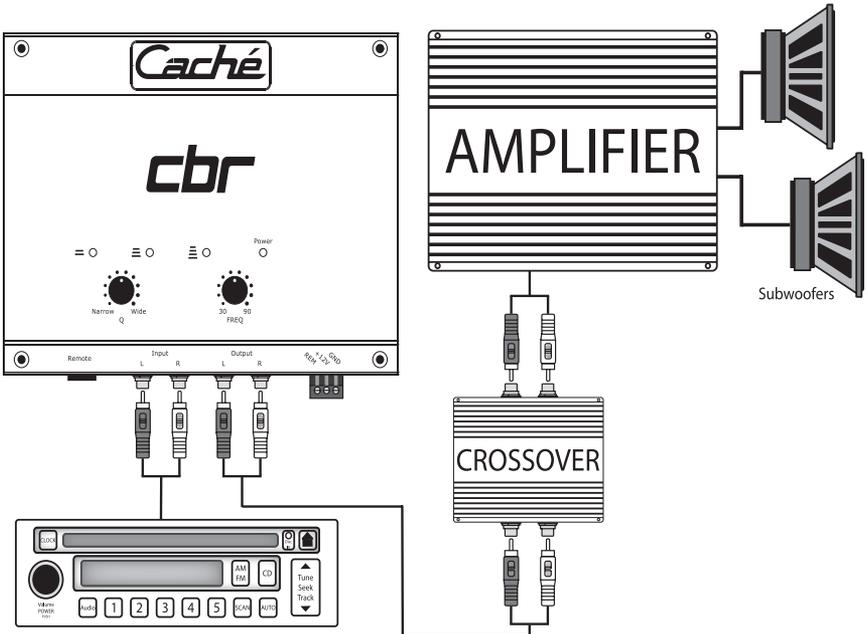
- Ⓑ Balanced / Unbalanced Input Jumpers- This jumper allows the user to select between a balanced or an unbalanced input. The default setting is for a balanced input and should only be moved if connected to a source unit with an unbalanced output (source unit looks for a ground through the RCA's).

- Ⓒ Isolation Jumpers- This jumper provides three different ground isolation options for the input of the cbr. The three input options include GND, Isolation, and 200ohms. Make sure the cbr is turned off before making your selection.

Example System #1



Example System #2



Caché Warranty

Caché warrants this product to be free from defects in material and workmanship for a period of one (1) year from the original date of purchase provided it was purchased from an authorized Caché retailer within the United States.

This warranty is valid only to the original purchaser and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether expressed implied, shall apply to this product there after. Some states do not allow limitations on implied warranties; therefore these exclusions may not apply to you.

This warranty gives you specific legal rights; however you may have other rights that vary from state to state. If your Caché device needs service, defective merchandise must be returned to your local Authorized Caché dealer for warranty. Non-defective items received will be returned freight collect. Freight damage and returns are not covered under warranty. Include proof-of-purchase. Warranty expiration on items returned without proof-of-purchase will be determined from the manufacturing date code. Any questions can be directed to the Warranty Department at (480) 305-8999. This warranty is valid only if the product is used for the purpose for which it was designed. This warranty does not cover:

The cost of shipping this product to the Caché Service Department

Damage through negligence, misuse, abuse or accident

Damage caused by exposure to water and/or excessive heat

Items scratched, dented, or physically damaged due to abuse

Items returned from unauthorized individuals or dealers

Items previously repaired by any unauthorized repair facility

International customers: please contact your International Caché dealer or distributor concerning specific procedures for your country's warranty policies. If you are not able to locate your local distributor, please contact Caché for assistance at +1(480) 305-8999.

Specifications subject to change without notice.

Cache

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