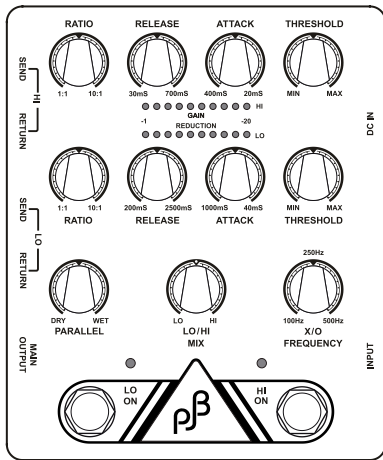


X2C

VARIABLE-FREQUENCY DUAL-BAND COMPRESSOR / LIMITER



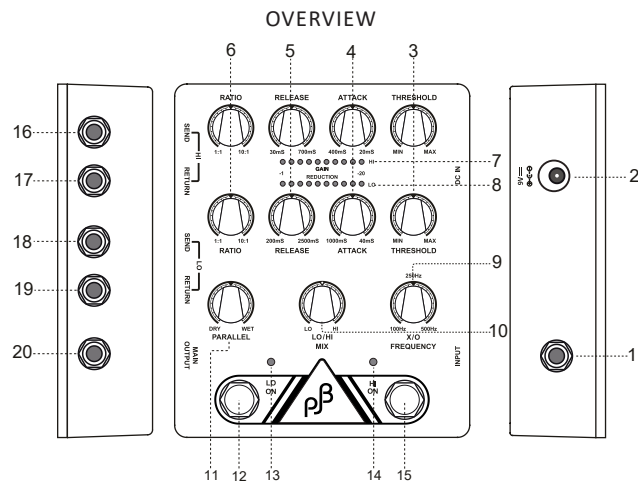
OWNER'S MANUAL

Thank you for your purchase of the X2C.
The X2C is the outcome of our continuous dedication and passion at PJB for designing innovative, high-performance products for musicians. Reading this manual will empower you to attain optimal performance from the X2C, providing you with many years of enjoyment and reliable service.

READ THIS FIRST!

- Upon receipt of the product, check for any signs of physical damage resulting from shipping. If any damage is visible, contact your dealer.
- **WARNING:** Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, etc.).
- **WARNING:** To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. It should not be exposed to dripping or splashing.
- Use an appropriate 9-volt power supply with pin negative polarity. If you are experiencing sound/noise issues, ensure that your power supply has sufficient current capacity to power the X2C.

Proper Disposal Notice: Please note that this product should not be discarded with regular household waste. Responsible disposal is crucial to avoid potential harm to the environment and human health. Please recycle it appropriately to support the sustainable reuse of materials. To return your used device, kindly utilize the designated return and collection systems provided or reach out to the retailer from whom the product was purchased. They can facilitate environmentally safe recycling of this product.



- 1. Instrument input jack**
Connect to instrument or output from another FX pedal.
- 2. DC power input socket**
9-volt DC power supply pin negative.
Power supply ideally should have a current capacity of more of 1000mA or more.
- 3. Threshold Level**
This determines the level at which the compressor activates. The compressor will turn on when the bass input signal exceeds the threshold level. Lowering the Threshold Level results in increased compression of the bass.
- 4. ATTACK**
This setting determines how quickly the compressor engages to reduce the volume of the bass. Faster attack times create a thick and controlled bass sound, while slower attack times produce a punchy bass sound.

- 5. RELEASE**
This control adjusts the duration it takes for the compressor to disengage completely and return the signal to its normal state.
- 6. RATIO**
This control determines the extent to which the volume is reduced when the compressor activates. Setting a higher RATIO results in more aggressive compression.
- 7. High Frequency Band Gain Reduction meter**
Measures and displays the amount of gain reduction applied specifically to high-frequency audio signals.
- 8. Low Frequency Band Gain Reduction meter**
Same as 7. but Low Frequency band.
- 9. Crossover Frequency Control**
This feature enables adjustment of the desired frequency range between the two compressor bands, allowing for significant alterations in the instrument's sound. The most suitable adjustment depends on the technique and style of play employed.
- 10. LOW / HI MIX**
This control adjusts the balance between the high and low band compressors, allowing you to customize the tone of your instrument according to your preference.
- 11. PARALLEL Control**
This control blends the original input signal (dry) with the compressed signal. Mastering the technique of parallel compression significantly impacts the richness and volume of modern mixes. While excessive compression can flatten dynamics, achieving maximum bass volume without risking speaker damage requires heavy compression. Properly employing parallel processing allows for maintaining a dynamic sound while reducing overall compression.
- 12. LO ON Button**
This switches between the dry and compressed signal.

- 13. LO ON indicator**
when the LO compressor is on this LED will illuminate.
- 14. HI ON indicator**
when the HI compressor is on this LED will illuminate.
- 15. HI ON Button**
This switches between the dry and compressed signal.
- 16. Send OUTPUT (from HI Compressor)**
This has two functions. The first is to allow a second FX pedal be used on the HI band compressor. This output is post compressor. Plugging a jack in here will not break the signal path which leads to the second function. Since this is not only a DUAL BAND Compressor, it is also an electronic crossover. So this output can feed a dedicated amplification system for frequencies from 100/500Hz to 20KHz.
- 17. HI return path**
Inserting a cable into this socket will interrupt the signal in the HI BAND Compressor. Utilizing both the Send and Return sockets of this band allows for the insertion of another FX pedal, thereby enhancing the sonic complexity of your tone. For instance, this setup could accommodate a phaser/flanger effect on the upper and mid frequencies while preserving the integrity of the low fundamental tones.
- 18. Send OUTPUT (from LO Compressor)**
This functions exactly the same as Send OUTPUT from HI Compressor but for Low Frequency band.
- 19. LO return path**
Functions the same as 17 but for LO Band.
- 20. Main Output**
Combined LO and HI signals to feed Amplifier input, DI Box or Mixing Console.

SPECIFICATIONS

Input Impedance: 220Kohms
Output Impedance: 100ohms
Circuit topology: CLASS A/B
Gain Range: -16dB~16dB
Maximum input level: 2V
Maximum output level: 2V
Output type and gain: up to 16dB gain
Noise 20kHz unweighted: -85 dBu (LEVEL at MAX)
Frequency response: 10-25KHz
Compressor type: VCA Compression
Threshold – Ratio: ratio-compression variable from 1:1 to 10:1
Attack - Release:
HIGH Attack Variable (20mS to 400mS), Release Variable (30mS to 700mS);
LOW Attack Variable (40mS to 1000mS) , Release Variable (200mS to 2.5 seconds)
Crossover type.: second order RC divider variable from 100Hz to 500Hz
DC supply: 9 volts Sleeve + Pin-
Power consumption in milliamps: less than 600mA
Dimensions: 129.5x145x60mm (5.1" x 5.7" x 2.4")
Weight: 572g (1.3 lbs.)
Packing Dimensions: 170x153x81mm

SERVICE/WARRANTY INFORMATION

The X2C has one year limited warranty on parts and labor. Products must be purchased from an authorized PJB dealer. Buyer must complete and return the enclosed warranty card within 15 days of purchase, or register online at <https://pjbgear.com/warranty/> This warranty covers defect in materials or workmanship that occurs in normal use.
Within the warranty period PJB or its local distributor will repair or replace the defective unit free of labor and parts charge. It is the buyer's responsibility to use the unit strictly according to instructions written in the owner's manual.
This warranty is not transferable, it is provided to original owner only. Damage/defects caused by the following conditions are not covered by this warranty:

- Improper handling, neglect or failure to operate the unit in compliance with the instructions given in user manual;
- Connection or operation in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- Repairs or modifications by anyone other than authorized PJB service agent;
- Damages/defects caused by forces of nature or any other condition that is beyond the control of PJB.

IMPORTANT:

- In all warranty issues your first line of communication should be to the retailer you purchased from, even if you have purchased product from an online source.
- When a local distributor is available, customer who prefers to purchase across country online maybe required to pay shipping charges to retailer in order to obtain service.

Warranty policy might differ in countries outside of US. Please check with local PJB distributors for warranty information in your region.
<https://www.pjbworld.com/cms/index.php/dealers/>
Further questions, please contact PJB by email
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For servicing outside USA please contact our distributor in your country. Information can be found on our website.
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