

ISO B12 instructions



The ISO B-12 is an entirely new processor designed to optimize the stereophonic reproduction in car.

It is the first processor equipped with a stereophonic phase equalizer. The stereophonic phase equalization have two advantages relative to the time alignment:

On the one hand a better stereophonic reproduction for the main listener.

On the other hand a noticeable improvement of the stereophonic reproduction for the second listener.

I - The front panel

The front panel have two series of adjustments and an ON/OFF switch. The ON/OFF switch controls a relay putting the device in by-pass. In by-pass the inputs are connected to the outputs.

The " LEVEL BALANCE " adjustments make it possible to adjust the balance separately for each octave.

The " PHASE BALANCE " adjustments make it possible to adjust the phase balance for each octave.

II - The rear panel:



The rear panel includes:

1 - A 4 wires car power supply

- the orange wire is the remote
- the red wire is the + 12 volts
- the black wire is the ground
- the yellow wire is a by-pass remote command. Its ground connection involves the setting in by-pass of the **ISO B-12**.

2 - an 220Volts/12 volts AC/CD power supply

3 - Two inputs

4 - Two main outputs

5 - Two auxiliary outputs

which provide the same signal as the main outputs when the SP switch is pushed, and the input signal when SP switch is pulled.

III - Connection

The **ISO B-12** inputs must be connected directly behind the source.

The main output must be connected to feed mediums.

The auxiliary outputs can be used to feed woofers or tweeters. The SP contact is used to determine the mode giving the best result.

IV - Adjustments

The adjustment is carried out using the disc of **ISO B-12** adjustment. Each control button is adjusted using the corresponding band of pink noise. The level adjustments are carried out using the uncorrelated noises, and the phase adjustments of with the correlated pink noise.

There are two modes of adjustment of the **ISO B-12**. The asymmetrical mode which privilege a position of listening and the symmetrical mode which aims obtaining comparable results with the two positions of listening.

Contrary to temporal alignment, the asymmetrical adjustment gives a noticeable improvement for the other position of listening.

1 - Asymmetrical adjustment:

Start with the adjustment of the level balance using the uncorrelated noises. For each band, the sound must uniformly be distributed over all the width of the sound stage.

Carry out then the adjustment of the balance of phase using the correlated noises. For each band, the sound must form a narrow task in the middle of the sound stage.

2 – Symmetrical adjustment:

Start with the adjustment of the balance of level using the uncorrelated noises. For each band, the sound must be identically distributed over all the width of the sound stage for the two listening positions.

Carry out then the adjustment of the balance of phase using the correlated bands of noise. For each band, the sound must form a narrow task located symmetrically compared to the axis of the vehicle for the two listening position.

V - Technical Support:

It will be answered any question concerning the **ISO B-12** sent by mail.

support@isophases.com

VI – Installation

The ISO B-12 is delivered with 2 squares, 4 screws and 4 rubber feet. If the apparatus is embedded, the two squares are used to maintain the apparatus stuck to the panel of embedding using the two small screws and the holes of with dimensions located close to the front panel.

VII - Characteristics:

Bandwidth: 5 Hz - 20 000 Hz \pm 1dB

Levels of input and outputs: 4 volts RMS

Distortion: < 0,1%

Signal-to-noise ratio > 105 dBA

Width: 165 mm Height: 35 mm Depth: 110 mm

Guarantee : 2 years.

VIII – Distribution:

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Price : 450 Euros.