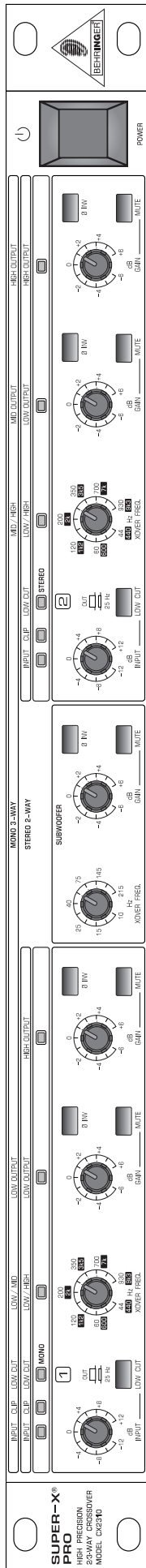


SUPER-X[®] PRO CX2310



User's Manual

Version 1.0 March 2001

ENGLISH



www.behringer.com

SAFETY INSTRUCTIONS

CAUTION: To reduce the risk of electric shock, do not remove the cover (or back). No user serviceable parts inside; refer servicing to qualified personnel.



WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure—voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

DETAILED SAFETY INSTRUCTIONS:

All the safety and operation instructions should be read before the appliance is operated.

Retain Instructions:

The safety and operating instructions should be retained for future reference.

Heed Warnings:

All warnings on the appliance and in the operating instructions should be adhered to.

Follow instructions:

All operation and user instructions should be followed.

Water and Moisture:

The appliance should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool etc.).

Ventilation:

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

Heat:

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Power Source:

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

Grounding or Polarization:

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

Power-Cord Protection:

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles and the point where they exit from the appliance.

Cleaning:

The appliance should be cleaned only as recommended by the manufacturer.

Non-use Periods:

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

Debris and Liquid Entry:

Care should be taken that debris and/or liquids do not enter the enclosure through openings.

Damage Requiring Service:

The appliance should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Debris or liquid has entered the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

Servicing:

The user should not attempt to service the appliance beyond that which is described in the operating instructions. All other servicing should be referred to qualified service personnel.

☞ If the unit is damaged, please do not return it to us, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted. Shipping claims must be made by the consignee.

Be sure that there is enough space around the unit for cooling and please do not place the SUPER-X PRO on high-temperature devices such as power amplifiers, etc. to avoid overheating.

☞ Before connecting the SUPER-X PRO to the mains, please carefully check that your equipment is set to the correct supply voltage!

The fuse holder on the female mains connector has 3 triangular markings. Two of these triangles are opposite each other. The CX2310 is set to the operating voltage shown next to these markings. It can be set to another voltage by turning the fuse holder through 180°. **CAUTION: this does not apply to export models, which were designed e.g. only for a mains voltage of 115 V!**

Connection to the mains is made by means of a mains cable with an IEC receptacle which complies with the appropriate safety regulations.

☞ Please note that all units must be grounded properly. For your own safety, you should never remove any ground connectors from electrical devices or power cords or render them inoperative.

2. CONTROL ELEMENTS

Since the SUPER-X PRO offers a variety of features, we have provided the active controls with suitable light-emitting diodes. These displays help you to keep track of what is happening even in dark stage environments. Additionally, all the switches on the front panel are illuminated and can thus show which functions are presently active. There are two labels in the form of strips, located above the controls. The text of the upper label indicates mono 3-way, and the lower label indicates stereo 2-way mode. The LED's set below these labels show which controls are active in the respective mode of operation.

☞ On the rear panel, labels above/below the connectors refer to the various crossover modes available. Please make sure that the MODE switch and corresponding connectors are configured properly; otherwise, you could damage your speakers.

2.1 Stereo 2-way operation with separate subwoofer signal

First, activate the 2-way mode using the MODE switch on the rear panel (switch depressed). The STEREO LED on the front panel above the LOW CUT switch in the second channel lights up.

The LED's above the active control on the front panel then light up. They show you which controls are active for the mode of operation, which you have selected. The functions of these controls can be seen from the second strip label. In stereo operation the functions of both channels are identical, so that the numbers on the overview are shown for only one channel.

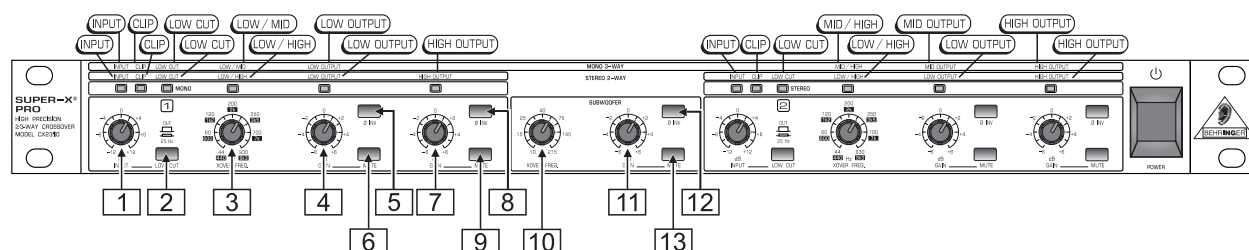


Fig. 2.1: Active control elements on the front panel of the SUPER-X PRO in stereo 2-way operation with separate subwoofer signal

- 1 **INPUT control.** This control adjusts the input gain over the range from -12 to +12 dB.
- 2 **LOW CUT switch.** This switch activates the 25 Hz high-pass filter. It has a side gradient of 12 dB/octave and is used to protect your bass loudspeaker.
- 3 **LOW/HIGH XOVER FREQ. control.** This control governs the crossover frequency between the low and high bands.
- 4 **LOW OUTPUT control.** Controls the output level of the low band over the range from -6 to +6 dB.
- 5 **LOW PHASE INVERT switch.** This switch reverses the polarity of the low output.
- 6 **LOW MUTE switch.** This is used to mute the low band.
- 7 **HIGH OUTPUT control.** This controls the output level of the high band over the range from -6 to +6 dB.
- 8 **HIGH PHASE INVERT switch.** This switch reverses the polarity of the high output.
- 9 **HIGH MUTE switch.** This is used to mute the high band.
- 10 **XOVER FREQ. control.** This control governs the crossover frequency between the low signal and the subwoofer signal (10 to 235 Hz).
- 11 **GAIN control.** This is used to set the subwoofer output volume at the SUBW. OUT output.
- 12 **PHASE INVERT switch.** This switch reverses the polarity of the subwoofer output signal.
- 13 **MUTE switch.** This mutes the subwoofer output signal.

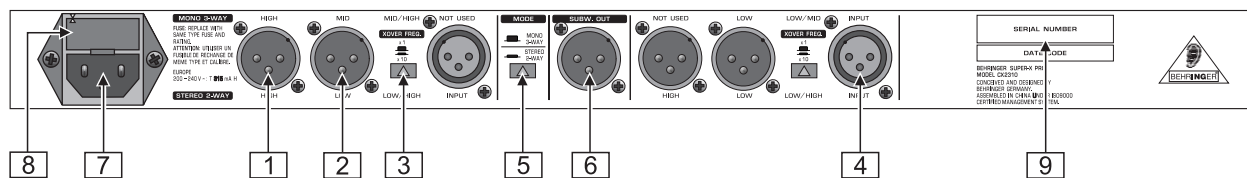



Fig. 2.2: Active control elements and connections on the rear panel of the SUPER-X PRO in stereo 2-way operation with separate subwoofer signal

- 1 **HIGH OUTPUT connectors.** These are the balanced XLR connectors for the high band output signal.
 - 2 **LOW OUTPUT connectors.** These are the balanced XLR connectors for the low band output signal.
 - 3 **XOVER FREQ. switch.** These switches are used to switch between the control ranges on the front panel LOW/HIGH XOVER FREQ. control. The range is either 44 to 930 Hz or 440 Hz to 9.3 kHz.
 - 4 **INPUT connectors.** These are the balanced XLR connectors for the input signal.
 - 5 **MODE switch.** In stereo 2-way operation the switch must be depressed. Please refer to the text on the rear panel of the equipment.
-  **Never activate the MODE and XOVER FREQ. switches without having first switched off the equipment. Switching between these while the equipment is in use produces heavy interference noise which could damage the loudspeakers or the system.**
- 6 **SUBW. OUT connector.** This is the balanced XLR output for the mono subwoofer signal. This signal is constant in mono and stereo mode and provides an additional means of providing 2- and 3-way operation (see chapter 3.5).
 - 7 **IEC-RECEPTACLE.** This is the mains connection of the SUPER-X PRO. A suitable mains cable is included with the equipment.
 - 8 **FUSE HOLDER /VOLTAGE SELECTOR.** Before connecting the equipment to the mains supply, please check that the voltage display conforms with your mains voltage supply. When replacing the fuse, make sure you use another one of the same type. With many units the fuse holder can be set in one of two positions, in order to switch between 230 V and 115 V. Please note: if you wish to operate a unit outside Europe, then a stronger fuse must be used.
 - 9 **SERIAL NUMBER.** Please take the time to complete and return the warranty card within 14 days of the date of purchase, otherwise you will lose the right to the extended warranty. Or just use our online-registration (www.behringer.com).