



BASS GUITAR PRE-AMPLIFIER OPERATION MANUAL



TX *silver line*
CROSS



DESIGNED BY MUSICIANS FOR MUSICIANS

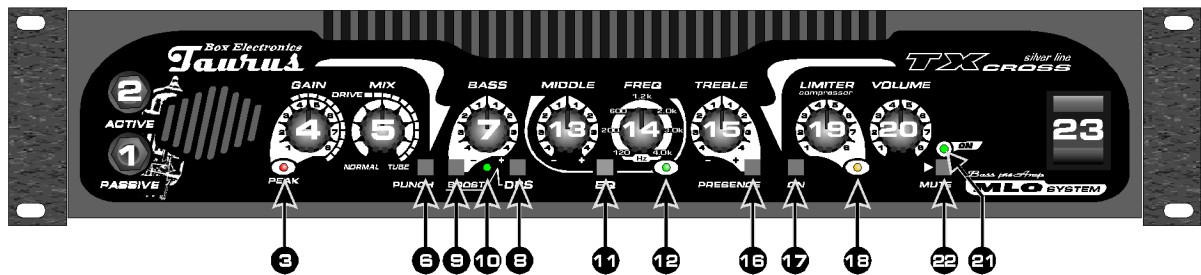
Both tube and transistor bass PREAMP built to work with any amplifier but dedicated to cooperate with TH-Cross bass head amplifier. The PREAMP and an amplifier can be "crossed" in two ways: twin channel or stereo. Connecting the TH-Cross PREAMP with the TX-Cross amplifier brings a wide range of new sound creation opportunities: two identical panels with separate input stage control, tone, limiter and volume. A musician can set preferred tone shape, input sensitivity, tube saturation, volume and compression for each channel independently and switch between the channels while playing. Also an external sound effect can be connected to each of the channels. In stereo configuration we get a fully stereophonic system with independent control panel for each channel, stereo effect loop and with stereophonic sound transmission effected through two line outputs. The PREAMP uses a very efficient and at the same time easy to operate BOX ELECTRONICS' own unique MLO equalization control for fast and accurate sound tailoring. Unique high quality optical limiter is built in for fast and noiseless operation. The TH-Cross PREAMP can operate with any power amplifier. Coupling it with another preamp opens new possibility: a 2 channel system foot switchable between the preamps.

MLO-system Middle-range Level Optimization

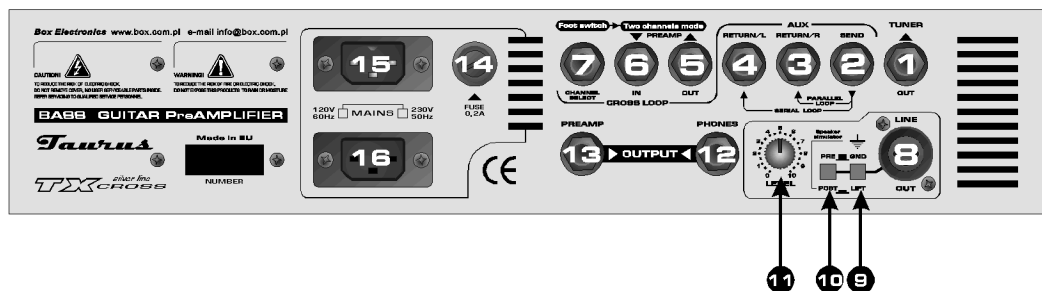
*In TAURUS amplifiers designed by BOX Electronics unique **MLO-system** equalization control has been applied to achieve easy and intuitional sound tailoring through only two Bass and Treble knobs. This type of sound correction makes it easy and fast to find the right tone colour. Characteristics of the tone settings are designed to meet the parameters of the instruments both technically and musically. In regular solutions one can practically use only 50% of the bass and treble correction range, mainly from 0 to +5 position (middle to right). To make the best use of the 2 point correction it has been automatically coupled with midrange control. This type of control gives new possibilities and provides optimal proportions of middle tone shape, especially in the adjacent mid and low frequencies over the whole 5 to +5 knob range. Additionally the **MLO-system** results in same level volume output no matter how the low frequency control knob is positioned (no need for tricky correction of both bass and volume to keep the same loudness level). This lets the musician concentrate on the precise sound colour quality control only without any "too many knobs to operate" confusion.*

MAIN FEATURES

- **2 preamps** to choose from or mix together one with tube circuit
- Preamp configuration: 1 internal channel + 1 external channel used to connect a separate preamp channels selected by foot switch
- **ACTIVE & PASSIVE** input
- **GAIN** control with overload LED. Operating with Gain and Input Mix player can obtain sound very close to acoustic bass or fretless bass guitar. The area around knobs marked by a break-off line indicates the region where the level of compression and distortion allows achieving the desired effect.
- **PEAK** preamp overload control
- **TONE CONTROLS:**
 - **BASS** and **TREBLE** equalization with "**MLO-system**"
 - **PARAMETRIC EQUALIZER** for precise control of middle range (120Hz-4kHz)
 - **PRESENCE** button - increases transparency of sound
 - **PUNCH** button - increases sonic accuracy
 - **DBS** (Dynamic Bass System) - increases dynamics and selectivity of bass sound
- **Studio quality optocoupler COMPRESSOR/LIMITER** with level control and ON/OFF button
- **VOLUME** control
- **MUTE** - button
- **EFFECT LOOPS:**
 - **AUX-1** for serial and parallel configuration,
 - **CROSS LOOP** parallel for external preamp with foot switch selectable internal and external channels
- **FOOT SWITCH** input (switches the additional preamp connected to Cross Loop)
- **OUTPUTS:** XLR balanced LINE output with level control, speaker cabinet simulation, PRE/POST switch and GROUND LIFT circuit switch, TUNER, PHONES
- Dimensions: 19" / 2 Rackspace (H x W x D) 88x483x135mm
- Weight: 3,3kg



1. PASSIVE BASS INSTRUMENT INPUT JACK
2. ACTIVE BASS INSTRUMENT INPUT JACK
3. PEAK INDICATOR in preamp section
4. GAIN CONTROL
5. INPUT MIX - fluent signal adjustment of the input between two sections of the amplifier - tubes and transistors
6. PUNCH BUTTON - increases sonic expression
7. BASS CONTROL with MLO system
8. DBS (Dynamic Bass System) - increases dynamics and selectivity of bass sound
9. DBS BOOST
10. DBS-ON INDICATOR
11. PARAMETRIC EQ ON/OFF SWITCH
12. PARAMETRIC EQ-ON INDICATOR.
13. LEVEL CONTROL PARAMETRIC EQ
14. VARIABLE FREQUENCY 120Hz -4KHz PARAMETRIC
15. TREBLE CONTROL with MLO system
16. PRESENCE BUTTON - increases transparency of sound
17. LIMITER-COMPRESSOR ON/OFF SWITCH
18. LIMITER INDICATOR
19. COMPRESSION ADJUSTMENT LEVEL
20. VOLUME CONTROL
21. MUTE INDICATOR
22. MUTE ON/OFF SWITCH
23. POWER ON/OFF SWITCH



1. TUNER OUTPUT JACK
2. AUX SEND OUTPUT JACK
3. AUX RETURN INPUT JACK (parallel loop)
4. AUX RETURN INPUT JACK (serial loop)
5. CROSS LOOP OUTPUT JACK for other preamp
6. CROSS LOOP JACK for other preamp
7. FOOT SWITCH input (switches the additional preamp connected to Cross Loop)
8. XLR- DIRECT OUTPUT SOCKET
9. XLR- DIRECT OUTPUT GROUND LIFT SWITCH
10. XLR- DIRECT OUTPUT PRE/POST EQ SWITCH
11. XLR- DIRECT LEVEL CONTROL
12. HEADPHONE OUTPUT JACK
13. PRE AMPLIFIER OUTPUT JACKS
14. AC POWER INPUT FUSE T-0,2A/230V, [T-0,4A/120V].
15. IEC POWER INPUT SOCKET
16. IEC POWER OUTPUT SOCKET

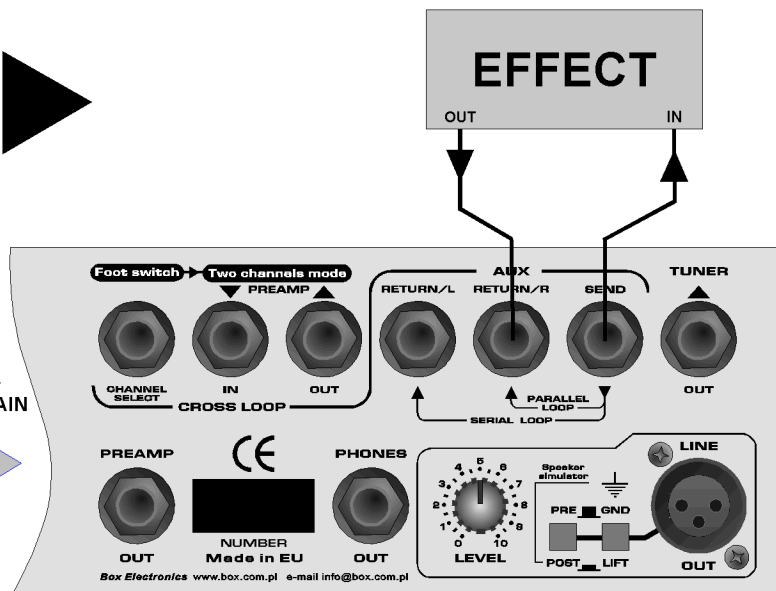
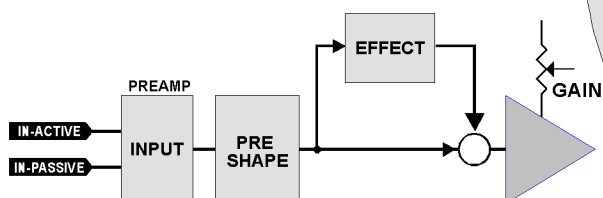
- A** Connect preamp to the amplifier in one of the configurations presented further in the manual.
- B** Set controllers and switches on the front panel in following positions:
 - tone color controllers - BASS, MIDDLE, FREQ and TREBLE - in position "O",
 - remaining controllers in maximum left position,
 - all mode switches in turned off position.
- C** Connect your bass guitar to appropriate input in the amplifier (ACTIVE or PASSIVE), and then switch on the power.

Basic elements that make up the character of desired sound are tone color and its dynamism. Section composed of controllers BASS, TREBLE, PARAMETRIC EQUALIZER as well as switches PUNCH, DBS and PRESENCE is responsible for tone color. In turn, controllers GAIN and COMPRESSOR/LIMITER, are responsible for tone dynamics. Controller MIX changes both the tone color and dynamics. Before setting about adjusting ones own tone, one ought to set controllers in positions determined in point 6B. Firstly set tone color using only BASS and TREBLE controllers and DBS and PRESENCE switches. In case when the adjustment is insufficient, use PARAMETRIC EQUALIZER, MIX adjustment or PUNCH switch.

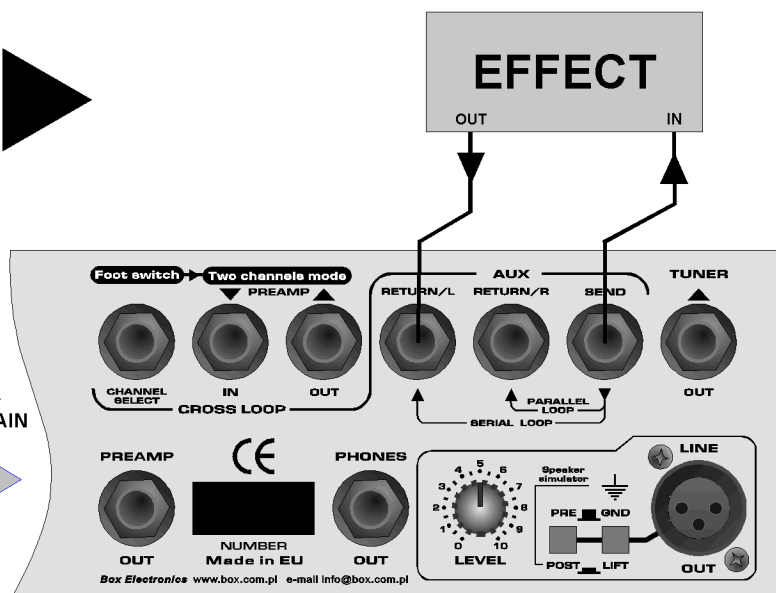
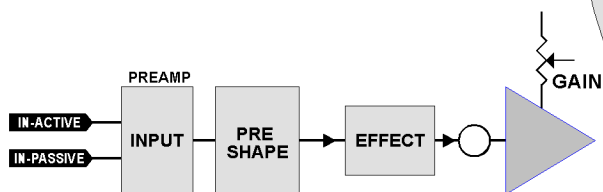
► FIRST USING TIPS

- A** Set VOLUME controller in optimum and then set appropriate input sensitivity by using GAIN controller. GAIN controller should be set in a way that ensures to control the amplifier on required level. It is necessary to remember not to allow to overload the preamplifier while hard hitting the strings. The overload is indicated with PEAK indicator [3].
- B** Set the MIX controller in NORMAL position and go to tone control. Begin with adjusting BASS and TREBLE controllers. If you need stronger bass tone saturation switch on DBS-ON button, if you need much more bass tone, additionally switch on BOOST button. If you need to brighten the tone color, switch on PRESENCE button.
- C** PARAMETRIC EQUALIZER and MIX adjustment with PUNCH switch give more advanced tone control.
 - Using equalizer you can precisely correct mid tones color. PARAMETRIC EQUALIZER is composed of 2 controllers - MIDDLE and FREQUENCY. One of controllers [MIDDLE] is designed for mid tones level adjustment. Using of the other controller [FREQUENCY] you can select appropriate mid tones range that you want to adjust. MIDDLE controller decides whether we want to amplify or cut out selected tone range. Setting MIDDLE controller in position "O" does not make any changes. Available adjustment range is set between 120Hz and 4kHz. You can switch on and off the equalizer using ON [11] button.
 - By using MIX controller you can change the tone character balancing between transistor and tube pre-amplifiers. Setting MIX potentiometer in NORMAL position assures dynamic and hard tone provided by transistor pre-amplifier. In TUBE position you will obtain characteristic warm and soft tone provided by lamp pre-amplifier. Depending on the MIX controller status the tone color of both channels is mixed together. If you want to get a little bit dirty and compressed sound that is provided by lamp pre-amplifier, you need to boost input sensitivity with use of GAIN controller. On the GAIN and MIX controllers' scale, the range you can obtain DRIVE typical for the tube, is marked with gapped line. If you want to set hard DRIVE, just increase GAIN controller while setting MIX position on right. It will sounds better if you turn off the TWEETER in your speaker cabinet.
 - If you desire your bass tone be more exposed you can add more expression by using PUNCH switch [6] that causes the amplification the tone color in the range of "hard middle".
- D** If you have already set appropriate tone color of the instrument you can go to tone dynamism adjustment. High quality optical COMPRESSOR/LIMITER is at you disposal. The handling is very simple, you only need to switch on the ON [17] button and then while playing you set the level controller [19] in the appropriate position. Limiter action is indicated by LED [18].
 - If you want to use limiter in order to secure against changing the power grade while loud and dynamic play, set the controller [19] in such position not to let the CLIP LED [22] to light on that indicates exceeding of maximum power amplifier level.
 - If you want to obtain appropriate tone compression, you should to increase limiter sensitivity by adjusting the controller [19] to the right. The sound compression can be enlarged even more by increasing sensitivity in the input of pre-amplifier with use of GAIN controller.
- E** In order to enrich the instrument sound you can use additional sound effects, external effects' loop AUX is designed for that, see point 8.

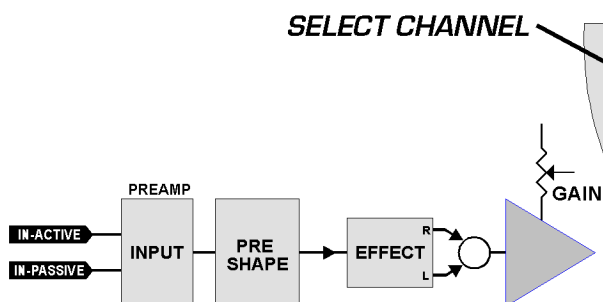
Connection to PARALLEL MONO LOOP



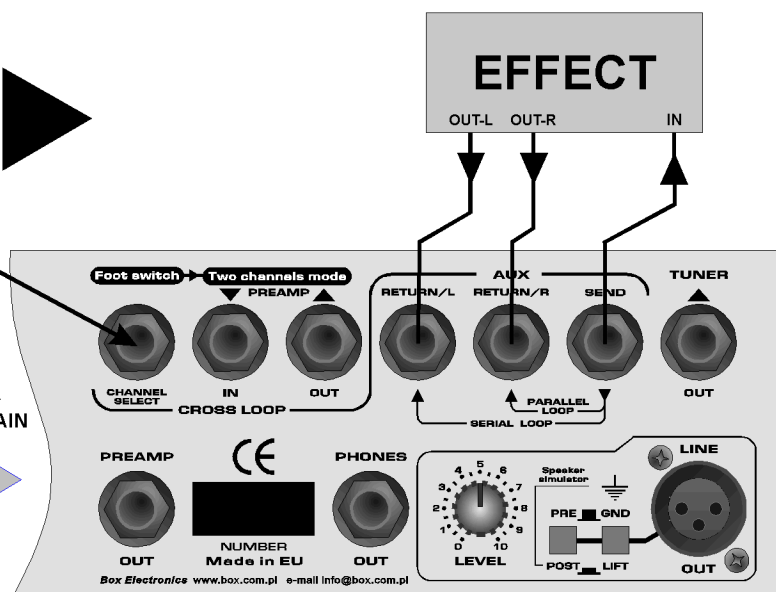
Connection to SERIAL MONO LOOP



Connection to SERIAL STEREO LOOP



SELECT CHANNEL

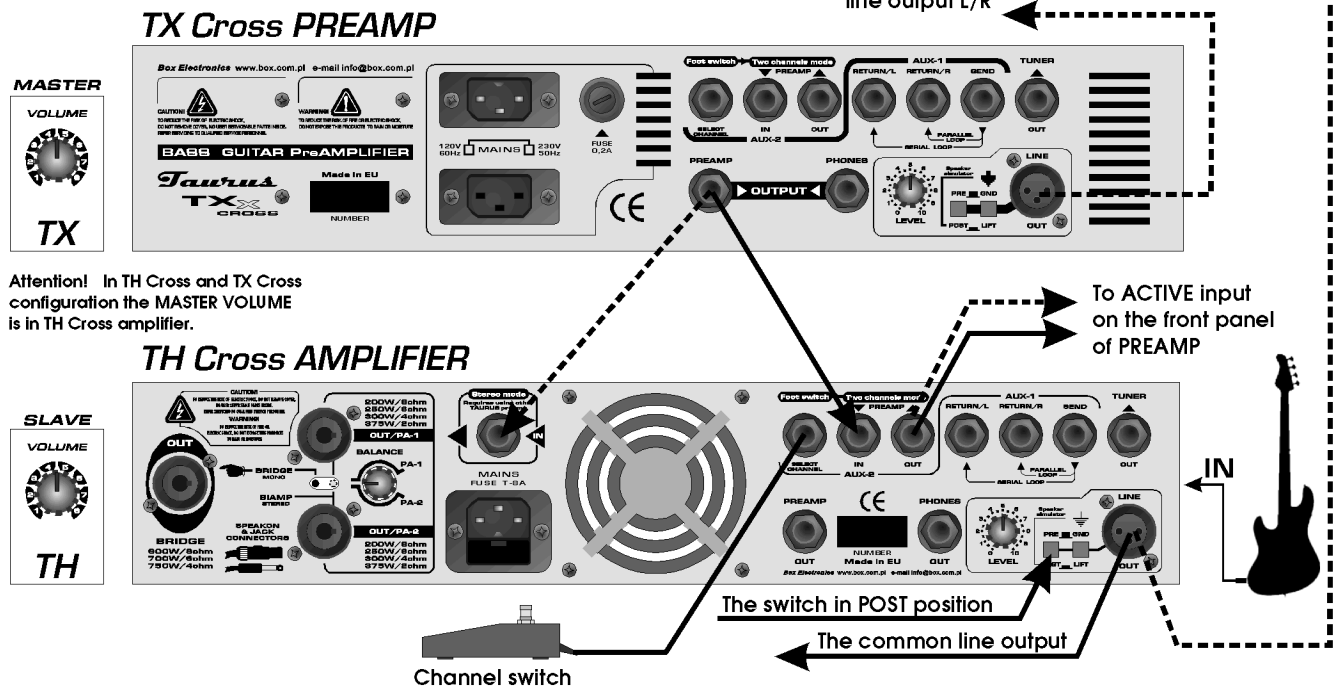


CAUTION: If any switch isn't connected to the **SELECT CHANNEL** connector, then the AUX-2 loop is still active. It is working together with the preamp, so it is possible to use it similarly to AUX-1.

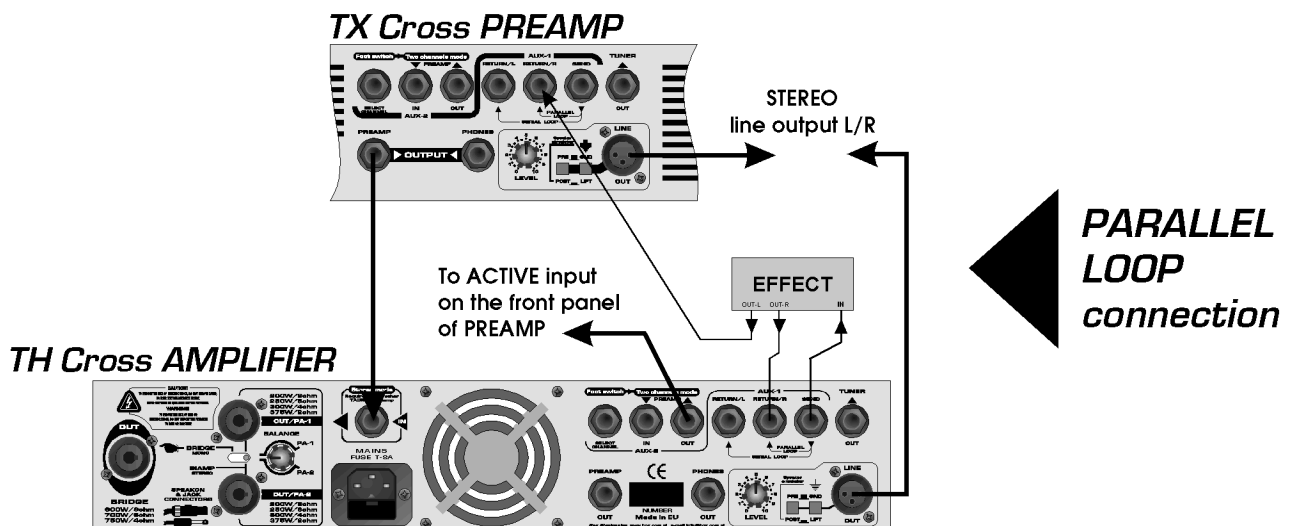
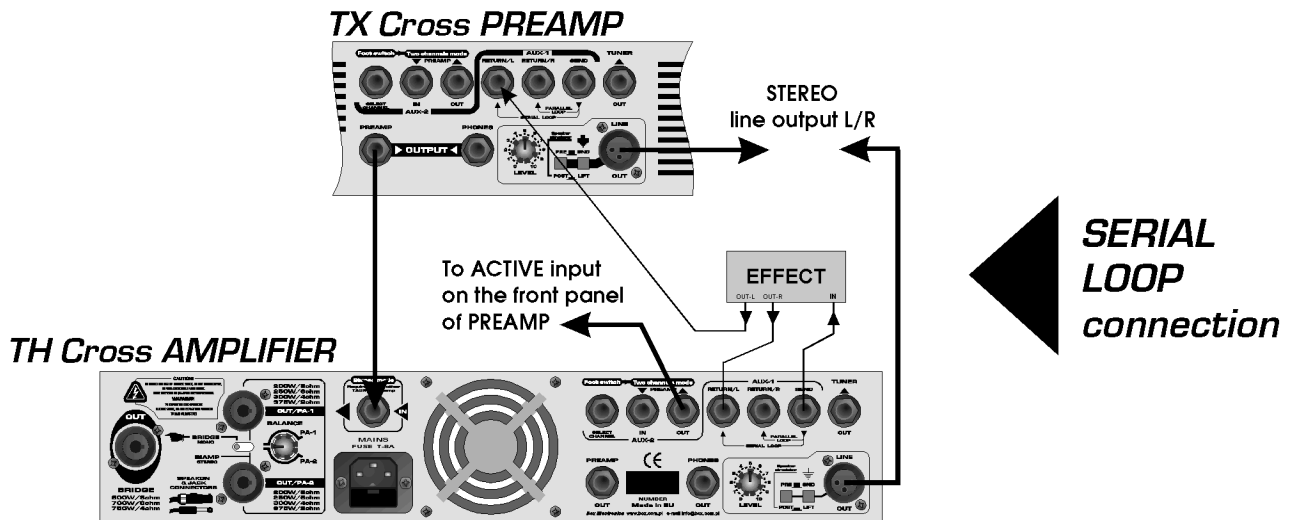
A WORK WITH PREAMP

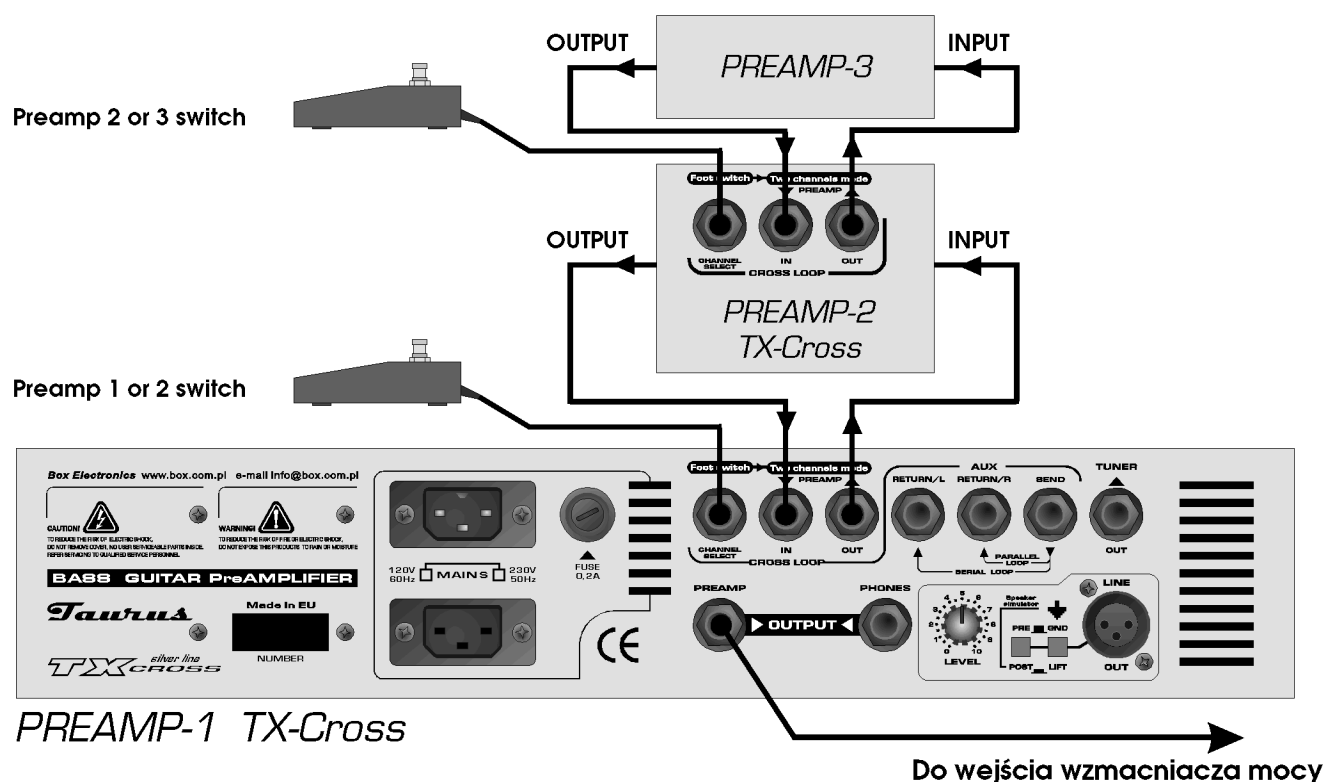
11 TH-cross AMPLIFIER TO TX-cross PREAMP CONNECTION

- Connection in 2 channel configuration
- Connection in stereo configuration

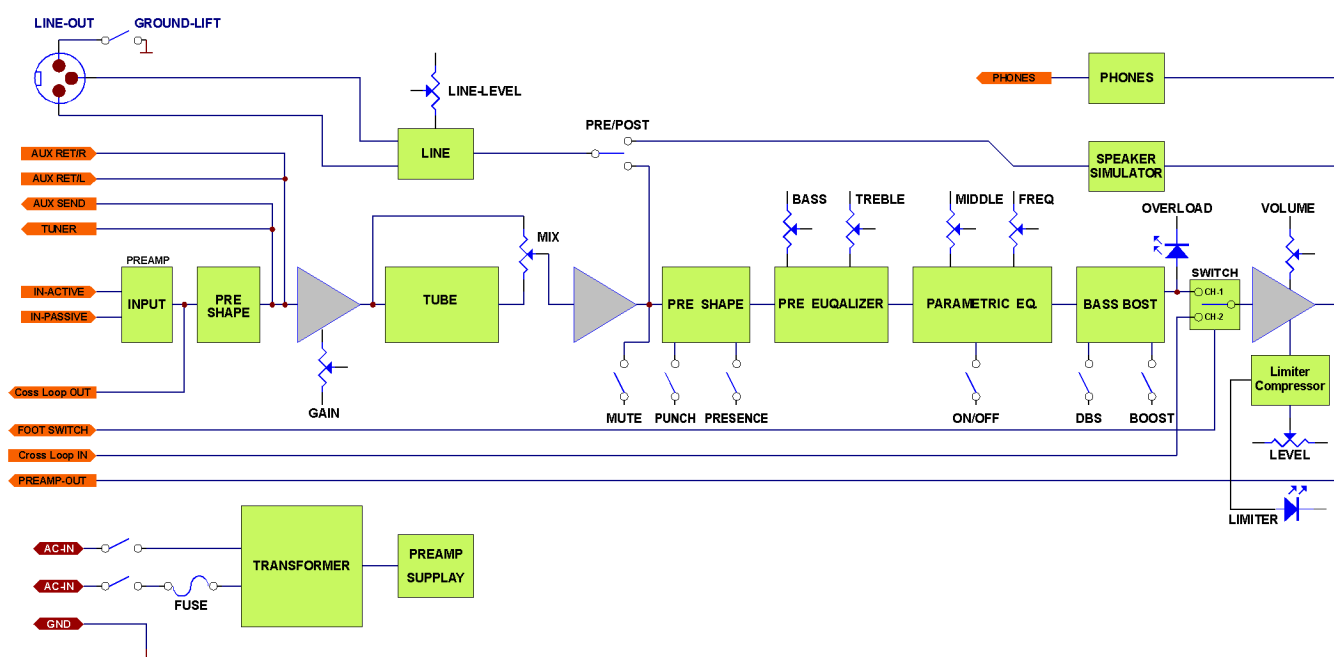


12 AMP+PREAMP TO SOUND EFFECT CONNECTION /STEREO MODE/





Do każdego z preampów można podłączyć osobny efekt dźwiękowy.



- The device should be used away from a heat sources.
- Protect the amplifier against moisture.
- A perfusion of the device may cause damage or electric shock.
- Never try to repair the device personally.
- Use fuses of parameters recommended by the producer only.

CE RoHS



Disposal of old Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs)

This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service or the retail store where you purchased this product.

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