

User Manual



MINIFEX FEX800

Ultra-Compact Stereo Multi-FX Processor


Table of Contents


Thank you	2
Important Safety Instructions	3
Legal Disclaimer	3
Limited Warranty	3
1. Introduction	5
1.1 Before you get started	5
1.1.1 Shipment.....	5
1.1.2 Initial operation	5
1.1.3 Warranty.....	5
1.2 The user's manual.....	5
2. Control Elements	6
2.1 Microphone channels	6
2.2 Stereo channels.....	6
2.3 MAIN OUT section.....	7
2.4 HEADPHONE section.....	7
2.5 XPQ 3D surround function.....	7
2.6 Effects loop	7
2.7 Crossfader section.....	7
2.8 Auto BPM Counter.....	7
2.9 Connections	7
3. Installation	8
3.1 Audio connections	8
4. Specifications.....	9


Thank you


Thank you for showing your confidence in BEHRINGER products by purchasing the MINIFEX FEX800. With the MINIFEX FEX800 you have purchased an extremely flexible yet easy-to-use multi-effects device, which you will surely come to appreciate for its sound enhancement capabilities both on stage and in the studio.


EN Important Safety Instructions


 Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality commercially-available speaker cables with ¼" TS plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

 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. Please read the manual.

 **Caution**
To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

 **Caution**
To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

 **Caution**
These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.

4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

**Legal Disclaimer**

Technical specifications and appearance are subject to change without notice. The information contained herein is correct at the time of printing. All trademarks are the property of their respective owners. MUSIC Group accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Colors and specifications may vary slightly from product. BEHRINGER products are sold through authorized dealers only. Distributors and dealers are not agents of MUSIC Group and have absolutely no authority to bind MUSIC Group by any express or implied undertaking or representation. This manual is copyrighted. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of MUSIC Group IP Ltd.

ALL RIGHTS RESERVED.
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Trident Chambers, Wickhams Cay, P.O. Box 146,
Road Town, Tortola, British Virgin Islands

Limited Warranty**§ 1 Warranty**

① This limited warranty is valid only if you purchased the product from a BEHRINGER authorized dealer in the country of purchase. A list of authorized dealers can be found on BEHRINGER's website behringer.com under "Where to Buy", or you can contact the BEHRINGER office closest to you.

② MUSIC Group* warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of one (1) year from the original date of purchase (see the Limited Warranty terms in § 4 below), unless a longer minimum warranty period is mandated by applicable local laws. If the product shows

any defects within the specified warranty period and that defect is not excluded under § 4, MUSIC Group shall, at its discretion, either replace or repair the product using suitable new or reconditioned product or parts. In case MUSIC Group decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., one (1) year (or otherwise applicable minimum warranty period) from the date of purchase of the original product.

③ Upon validation of the warranty claim, the repaired or replacement product will be returned to the user freight prepaid by MUSIC Group.

④ Warranty claims other than those indicated above are expressly excluded.

PLEASE RETAIN YOUR SALES RECEIPT.
IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. THIS LIMITED WARRANTY IS VOID WITHOUT SUCH PROOF OF PURCHASE.

§ 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase at behringer.com under "Support" and kindly read the terms and conditions of our limited warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 Return materials authorization

① To obtain warranty service, please contact the retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may contact the BEHRINGER distributor for your country listed under "Support" at behringer.com. If your country is not listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product. All inquiries

must be accompanied by a description of the problem and the serial number of the product. After verifying the product's warranty eligibility with the original sales receipt, MUSIC Group will then issue a Return Materials Authorization ("RMA") number.

② Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by MUSIC Group.

③ Shipments without freight prepaid will not be accepted.

§ 4 Warranty Exclusions

① This limited warranty does not cover consumable parts including, but not limited to, fuses and batteries. Where applicable, MUSIC Group warrants the valves or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase.

② This limited warranty does not cover the product if it has been electronically or mechanically modified in any way. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. This limited warranty does not cover any such modification/adaptation, regardless of whether it was carried out properly or not. Under the terms of this limited warranty, MUSIC Group shall not be held responsible for any cost resulting from such a modification/adaptation.

③ This limited warranty covers only the product hardware. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided "AS IS" unless expressly provided for in any enclosed software limited warranty.

④ This limited warranty is invalid if the factory-applied serial number has been altered or removed from the product.

⑤ Free inspections and maintenance/repair work are expressly excluded from this limited warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, guitar strings, illuminants and similar parts.

⑥ Damage/defects caused by the following conditions are not covered by this limited warranty:

- improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;
- connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- damage/defects caused by acts of God/Nature (accident, fire, flood, etc) or any other condition that is beyond the control of MUSIC Group.

⑦ Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the limited warranty.

⑧ If an inspection of the product by MUSIC Group shows that the defect in question is not covered by the limited warranty, the inspection costs are payable by the customer.

⑨ Products which do not meet the terms of this limited warranty will be repaired exclusively at the buyer's expense. MUSIC Group or its authorized service center will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, MUSIC Group will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

10 Authorized BEHRINGER dealers do not sell new products directly in online auctions. Purchases made through an online auction are on a “buyer beware” basis. Online auction confirmations or sales receipts are not accepted for warranty verification and MUSIC Group will not repair or replace any product purchased through an online auction.

§ 5 Warranty transferability

This limited warranty is extended exclusively to the original buyer (customer of authorized retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of MUSIC Group.

§ 6 Claim for damage

Subject only to the operation of mandatory applicable local laws, MUSIC Group shall have no liability to the buyer under this warranty for any consequential or indirect loss or damage of any kind. In no event shall the liability of MUSIC Group under this limited warranty exceed the invoiced value of the product.

§ 7 Limitation of liability

This limited warranty is the complete and exclusive warranty between you and MUSIC Group. It supersedes all other written or oral communications related to this product. MUSIC Group provides no other warranties for this product.

§ 8 Other warranty rights and national law

1 This limited warranty does not exclude or limit the buyer’s statutory rights as a consumer in any way.

2 The limited warranty regulations mentioned herein are applicable unless they constitute an infringement of applicable mandatory local laws.

3 This warranty does not detract from the seller’s obligations in regard to any lack of conformity of the product and any hidden defect.

§ 9 Amendment

Warranty service conditions are subject to change without notice. For the latest warranty terms and conditions and additional information regarding MUSIC Group’s limited warranty, please see complete details online at behringer.com.

* MUSIC Group Macao Commercial Offshore Limited of Rue de Pequim No. 202-A, Macau Finance Centre 9/J, Macau, including all MUSIC Group companies

1. Introduction

Our ultra-compact stereo multi-effect processor is a useful addition to any set-up: You get 16 fantastic effects presets in 24-bit quality, including reverb, delay, chorus, flanger, phaser, rotary speaker, pitch shifter and other multi-effects. Thanks to the intuitive FX preset control with its LEDs displaying the currently selected program, nothing could be easier than operating the FEX800. What is more, a variety of edit and tap/select functions allows you to modify the effect parameters extensively. A high-precision, 6-digit LED display can be used to accurately set the stereo input level.

Further features are the handy Mix Balance and Output Level controls for precise effect level setting, as well as an additional footswitch connector for easy enabling/disabling of effects.

The FEX800 will take your music productions to a higher level!

1.1 Before you get started

1.1.1 Shipment

Your FEX800 was carefully packed at the assembly plant to assure secure transport. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage.

- ♦ **Damaged equipment should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery. Otherwise, all claims for replacement/repair may be rendered invalid.**
- ♦ Please always use the original packaging to avoid damage due to storage or shipping.
- ♦ Never let unsupervised children play with the FEX800 or with its packaging.
- ♦ Please dispose of all packaging materials in an environmentally friendly fashion.

1.1.2 Initial operation

Be sure that there is enough space around the unit for cooling. To avoid overheating, do not place the FEX800 on top of power amps or near radiators, etc.

- ♦ To power the FEX800, use only the power supply unit that is delivered with your equipment.
- ♦ Please ensure that the unit is installed and operated only by people qualified to do so. During installation and operation the user must have sufficient electrical contact to earth. Electrostatic discharge may affect the operation of the unit.
- ♦ Malfunction may occur due to static discharge at the inputs/outputs of the FEX800. In this case, switch off the unit temporarily.

1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

behringer.com

2. Control Elements and Connections

2.1 Front panel

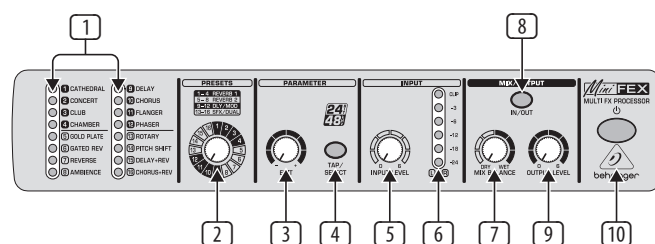


Fig. 2.1: Front panel control elements of the FEX800

- 1 The two LED displays show the effect preset currently selected. One LED is assigned to each preset.
- ♦ The presets are grouped in four categories: REVERB 1 (1-4), REVERB 2 (5-8), DELAY/MODULATION (9-12), SPECIAL FX/DUAL EFFECTS (13-16).
- 2 Use the **PRESETS** control to select one of the 16 effect presets.
- 3 The **EDIT** control allows you to edit one effect parameter. The center position corresponds to the default setting programmed for the preset.
- ♦ When you change presets the FEX800 always recalls the default or user settings for the selected preset, irrespective of the position of the EDIT control. However, the user settings will remain effective only as long as the unit is not switched off or disconnected from the mains.
- 4 The **TAP/SELECT** button performs two functions:
 - **TAP (tempo entry):** Hit the button several times in the tempo of the music piece to adapt the delay time of presets 9 and 15 or the modulation speed of presets 10-12. The button starts flashing in the corresponding tempo.
 - **SELECT (additional effect parameter):** Press this button to choose between two different effect characteristics when using presets 1-8, 13-14, 16. When the button lights up this means that the corresponding parameter of the selected preset has been activated.
- ♦ Table 6.1 gives you an overview of all effect parameters that can be edited in the various presets.
- 5 Use the **INPUT LEVEL** control to adjust the input signal level. Please be sure to set a level that is sufficiently high but does not overload the unit.
- 6 The **L + R** LED display is for monitoring the input level. It comprises 6 LEDs. When the CLIP LED lights up, this indicates that digital distortion may occur at the input of the FEX800. In this case, the input signal level must be reduced.
- 7 Use the **MIX BALANCE** control to adjust the ratio of original vs. effect signal. Turn the control fully to the right to hear only the processed effect signal. Turn it fully to the left to hear only the unprocessed input signal.
- 8 The **IN/OUT** button enables/disables the effect signal. The button lights up when the input signal is being processed by the FEX800. In order to hear the processed signal you have to set a suitable ratio of effect vs. direct signal using the MIX BALANCE control (7).
- 9 Use the **OUTPUT LEVEL** control to adjust the output level.
- 10 The **ON/OFF** switch turns your MINIFEX FEX800 on and off. The switch lights up when the unit is switched on.
- ♦ **Merely switching the unit off does not mean that it is fully disconnected from the mains. To disconnect the unit from the mains, pull out the mains connector. Please make sure before installation that the mains connector has not been damaged. If you do not use the unit for an extended period of time, please disconnect it at the mains.**

2.2 Rear panel

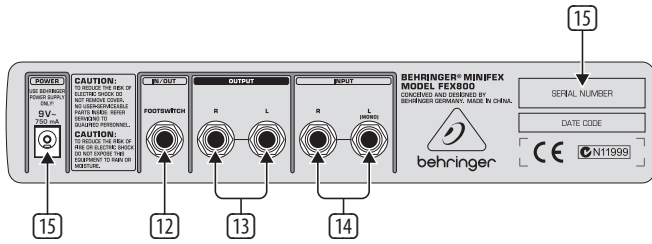


Fig. 2.2: Rear panel connectors of the FEX800

- 11 The FEX800 is connected to the mains using a 2-pole **POWER** connector jack. A matching mains adaptor is included with the unit.
- ♦ To avoid damage to your FEX800 always use the mains adaptor supplied with the unit.
- 12 A single footswitch can be connected to the **IN/OUT** connector. This footswitch allows you to remotely control the IN/OUT button 8 on the front panel and switch the effect signal on and off.
- 13 The two **OUTPUT** connectors are on 1/4" connectors and provide a balanced left/right signal.
- 14 The two **INPUT** connectors are on 1/4" connectors and can be used for unbalanced signals. A single mono signal should be connected to the L jack.
- 15 **SERIAL NUMBER.**

3. The Effects

Your MINIFEX FEX800 comes with 16 presets, which are grouped in four different categories. All of them are stereo effects.

- ♦ Table 6.1 contains a list of the preset effect parameters which can be edited as well as a description of the TAP/SELECT button's function.



3.1 REVERB 1

The presets from the REVERB 1 category reproduce the characteristics of natural spaces of different sizes.

- **CATHEDRAL** simulates the reverberation that you can hear in big cathedrals. This effect is characterized by a long reverb and very specific echoes. It works well with solo instruments and vocals.
- **CONCERT** simulates the reverberation in a mid-size concert hall. The preset is well suited for all natural instruments such as piano. When used sparingly, it also gives vocals an interesting touch, for example, in ballads.
- **CLUB** simulates the cozy atmosphere of a mid-size jazz club or theater. This reverb is characterized by its early reflections and short decay. The preset works well with vocals, electric piano, drums, saxophone and other instruments.
- **CHAMBER** simulates the typical characteristics of a studio. The preset is well suited for drums, guitars and vocals or whenever you need an unobtrusive reverb to breathe some life into a signal.



3.2 REVERB 2

REVERB 2 comprises popular artificial reverb algorithms, which characterize numerous pop/rock and dance tracks of the last few years.

- **GOLD PLATE** simulates the legendary sound of a reverb plate as used in former studio reverb units. This effect features a very dense sound of its own and is particularly suited to produce a very distinct reverb, e.g. for drums and vocals.
- **GATED REV** simulates the reverb type cut off by a gate, which was very popular in the 80's. This effect was typically used with snare or kick drums, but can be used to achieve interesting effects with other instruments too.
- **REVERSE** produces a reverb which has its reverb tail reversed. Consequently, the reverb volume does not decrease over time but increases. This preset can be used for unusual effects with the most varied kinds of signals. A very popular application is to use it for snare drums.
- **AMBIENCE** provides the signal with spatial information, however, does not produce an audible reverb. The preset works well with drums, keyboards, guitars and vocals or whenever you need an unobtrusive room sound without reverb.



3.3 DLY/MOD

The DELAY/MODULATION category offers three modulation effects for special sound-tweaking applications and one stereo delay preset.

- **DELAY** produces several echoes/delays of the input signal, reduces them in level and adds them to the original signal (echo effect). Use the DELAY preset to create effects which are very interesting in terms of rhythm. This preset can be used for virtually any instruments. It is particularly useful for keyboards, guitars and vocals.
- **CHORUS** gives a signal more body and width, so that it sounds richer. CHORUS can be used for virtually any signals which should sound a bit fuller.
- **FLANGER** gives a signal a wonderful „retro“ touch. FLANGER has always been a popular effect for guitars and keyboards. But you can also produce interesting sounds in combination with drums, vocals or other signals.
- **PHASER** is an effect which adds a copy of the input signal, however, shifted in phase. PHASER is a traditional guitar, electric piano and keyboard effect. But you can also produce distinctive effect sounds in combination with drums or other signals.



3.4 SFX/DUAL

This category includes two effects for special sound modifications, as well as two presets providing a combination of two effects.

- **ROTARY** simulates the accelerating, braking and rotating movements of a Leslie loudspeaker system. The fast rotation produces a characteristic shifting of frequencies. Traditionally, this is an effect for electronic organ. However, it can also be used for other signals.
- **PITCH SHIFT** adds another signal to the original signal, below or above the original pitch. This effect is particularly suited to enhance the sound of guitars and vocals.
- **DELAY + REV** is a useful combination of the DELAY and CONCERT effects. This effects combination works particularly well with guitars, keyboards and vocals.
- **CHORUS + REV** is a useful combination of the CHORUS and CLUB effects. This effects combination is a classic effect for guitars and electric pianos.

4. Application Examples

The FEX800 can be integrated into the signal path in various ways. Please find a few wiring examples below.

4.1 The MINIFEX in the aux(iliary) path

It is particularly advisable to connect the MINIFEX via the aux paths of a mixing console. Aux paths are signal busses to which you can route specific signals. Each channel strip on a mixing console has a level control for each aux path, which determines the signal portion routed from the respective channel strip to the aux bus. The signal is routed from the aux bus output of the console to an effects unit for processing. Subsequently, the processed effect signal from the external effects processor is routed back to the console via an aux return or other mono/stereo input, where it is mixed with the unprocessed original signal in the main mix bus.

This way of connecting your FEX800 allows you to adjust different effect intensities for different instruments. For example, you could give a snare drum more reverb than a kick drum. The volume ratio of direct vs. effect signal is determined using the aux return level control, while the aux send control in the corresponding channel strip adjusts the effect intensity for each instrument. Two mono aux paths are required for stereo signal processing. If you want to process single signals in mono, please use only one aux path. In this case, the aux send output must be connected to the L(MONO) jack in the INPUT section [14] of the FEX800.

- ♦ Please make sure that the FEX800 provides only one effect signal in this type of application (MIX BALANCE control [7] turned fully right).

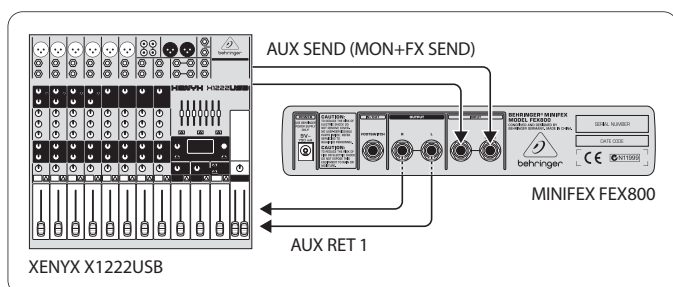


Fig. 4.1: Wiring the MINIFEX via the aux paths

4.2 The MINIFEX in the insert path

If your mixing console is equipped with insert paths, you can also connect the MINIFEX using these combined inputs/outputs. In this case, the effects unit is directly integrated into the signal path of the mixing console. Such a configuration is usually required for signal processors such as compressors, because you only want to use the processed signal rather than a mix of direct and effects signals. In order to use an effects unit such as the MINIFEX in the insert path, you will have to adjust the desired volume ratio of direct vs. effect signal with the MIX BALANCE control [7].

Please use the respective channel insert to process specific instruments. Groups of instruments or stereo mixes can be processed with the sub-group/main-mix inserts.

Regler einstellen.

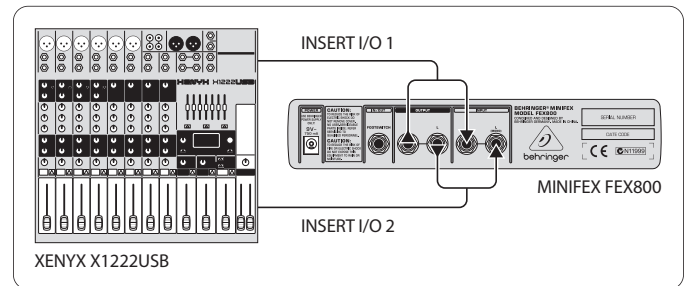


Fig. 4.2: Wiring the MINIFEX via the insert paths

4.3 The MINIFEX as an effects unit for instruments

You can also use the MINIFEX on stage as an effects unit for keyboards. This can be useful if your keyboard has only limited effect capabilities or if you want to process selected sounds with the MINIFEX effects via existing single outputs. The illustration below shows how to wire the FEX800 either to an amplifier or via a D.I. box to a mixing console. You can switch the effect on and off using an additional footswitch.

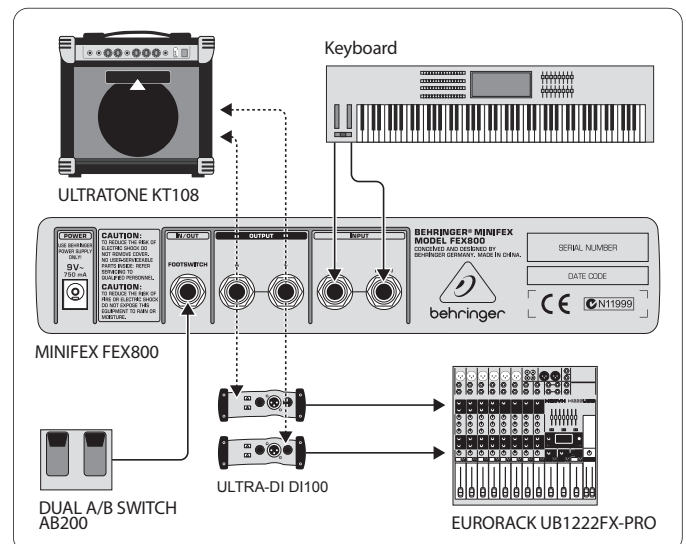


Fig. 4.3: Connecting the MINIFEX to an amplifier or D.I. box

5. Audio Connections

There are various ways to integrate the FEX800 into your set-up. Depending on the application in question, you will need different sets of connecting cables. The cables to use are described below.

5.1 Connection with insert cables

Please use standard insert cables equipped with $\frac{1}{4}$ " connectors to connect the MINIFEX to the insert path of a mixing console. These Y cables have two $\frac{1}{4}$ " TS connectors at one end, and one $\frac{1}{4}$ " TRS connector at the other. Connect the plug marked „Send“ to the INPUT L jack on the effects unit. Connect the „Return“ plug to the OUTPUT L jack on the device. Connect the TRS connector to the insert jack of the channel strip on the mixing console. Use two insert cables for stereo sub-groups and main-mix inserts. The second cable must be connected to the INPUT/OUTPUT R jacks of the FEX800.

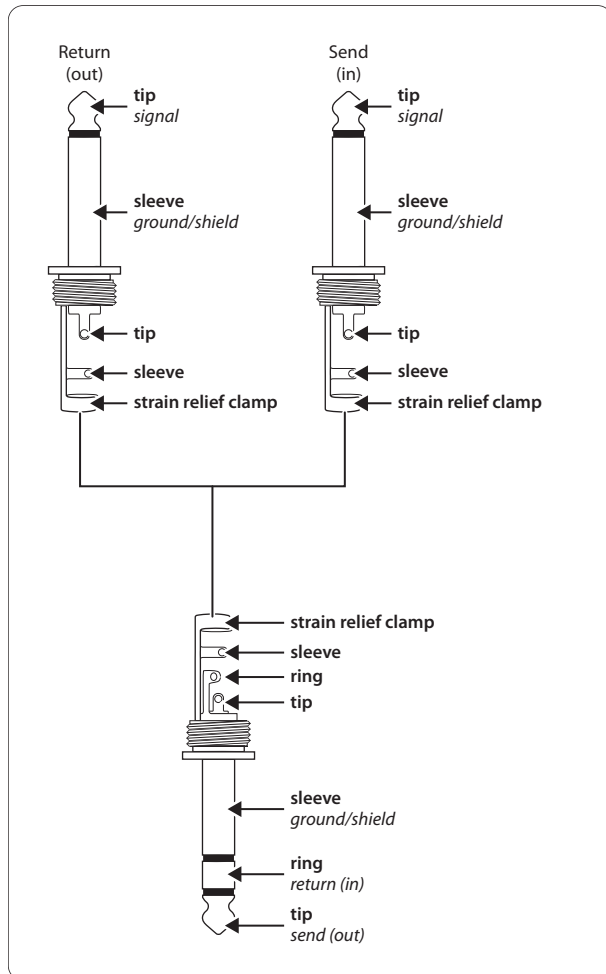


Fig. 5.1: Insert cable with two $\frac{1}{4}$ " TS and one $\frac{1}{4}$ " TRS connector

5.2 Connection with $\frac{1}{4}$ " cables

To wire the MINIFEX in series with other equipment or via the aux paths of a mixing console, please use $\frac{1}{4}$ " cables, sometimes also referred to as patch cords. These cables have a $\frac{1}{4}$ " connector at each end. Connect the aux send outputs of your console to the inputs, and the aux returns to the outputs of the MINIFEX. You can also connect balanced stereo $\frac{1}{4}$ " cables to the MINIFEX outputs.

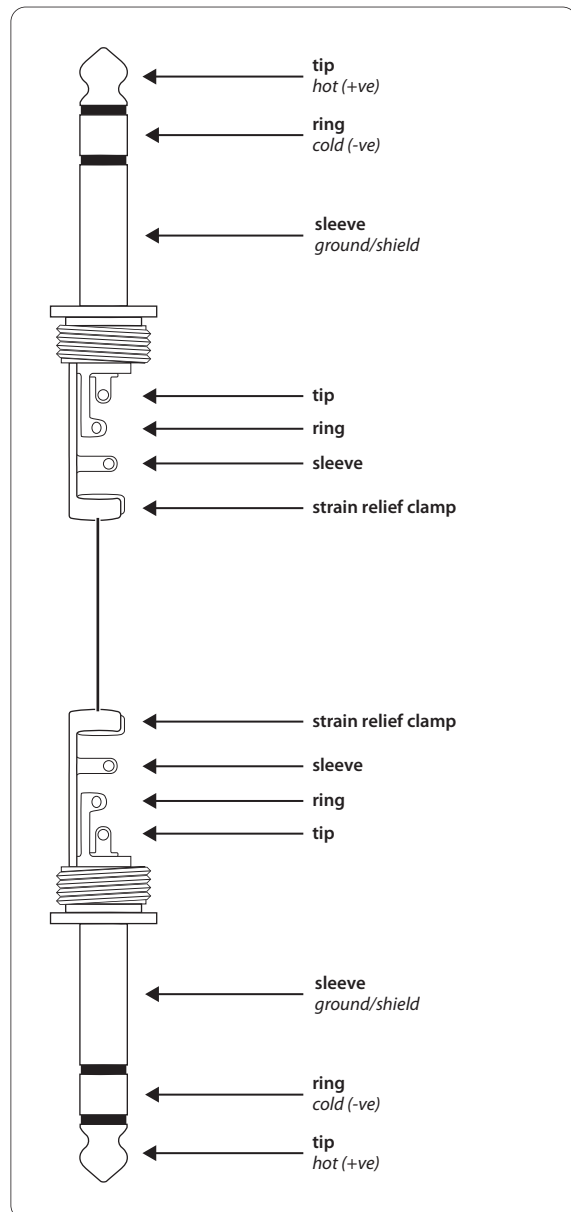


Fig. 5.2: Unbalanced cable with $\frac{1}{4}$ " TS connectors

5.3 Footswitch connection

The MINIFEX features a jack for connecting a footswitch. Here, you can connect any standard footswitch with a ¼" TS connector. As some footswitch models on the market have a different polarity, please be sure to use one that is appropriately wired. The correct wiring is shown in the illustration below.

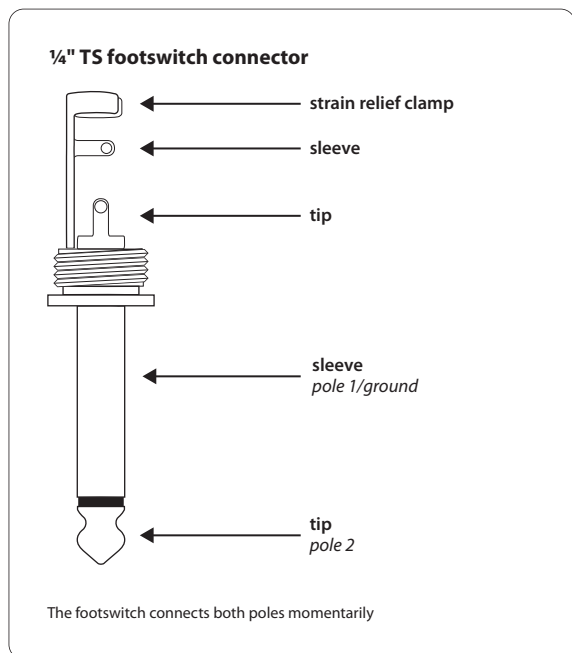


Fig. 5.3: Wiring of a ¼" TS connector for footswitch connection

6. Appendix

6.1 List of effects and parameters

Effect no.	Effect	EDIT Parameter 1	TAP/SELECT Parameter 2	TAP/SELECT LED
1	CATHEDRAL	Reverb time	Brilliance	off/on
2	CONCERT	Reverb time	Brilliance	off/on
3	CLUB	Reverb time	Brilliance	off/on
4	CHAMBER	Reverb time	Brilliance	off/on
5	GOLD PLATE	Reverb time	Brilliance	off/on
6	GATED REV	Reverb time	Brilliance	off/on
7	REVERSE	Reverb time	Brilliance	off/on
8	AMBIENCE	Room size	Brilliance	off/on
9	DELAY	No. of repetitions	Time interval TAP	flashing (BPM tempo)
10	CHORUS	Intensity	Tempo TAP	flashing (tempo)
11	FLANGER	Intensity	Tempo TAP	flashing (tempo)
12	PHASER	Intensity	Tempo TAP	flashing (tempo)
13	ROTARY	Intensity	Tempo	off/on
14	PITCH SHIFT	Semi-tone steps (+/-12)	Detune	off/on
15	DELAY+REV	Delay vs. reverb ratio	Time interval TAP	flashing (BPM tempo)
16	CHORUS+REV	Chorus vs. reverb ratio	Reverb time	off/on

Table 6.1: List of effects and parameters

7. Specifications

Input	
Type	¼" TS connectors, unbalanced
Impedance	approx. 30 kΩ
Output	
Type	¼" TRS connectors, impedance balanced
Impedance	approx. 220 Ω
Max. output level	+10 dBu
In/Out	
Type	¼" TS footswitch connector
Digital Processing	
Converters	24-Bit Delta-Sigma, 128-times oversampling
Sampling rate	48 kHz
System Specifications	
Frequency response	10 Hz to 22 kHz, -3 dB
Dynamic range	96 dB, 10 Hz to 22 kHz
Distortion	0,01% typ. @ 0 dBFS
Crosstalk	-75 dB @ 1 kHz
Signal-to-noise ratio	10 Hz to 22 kHz <86 dB @ 0 dBu, A-weighted

Power Supply	
Mains connection	external power supply, 9 V~, 750 mA
Mains voltage	
USA/Canada	120 V~, 60 Hz
U.K./Australia	240 V~, 50 Hz
China	220 V~, 50 Hz
Europe	230 V~, 50 Hz
Japan	100 V~, 50 - 60 Hz
Power consumption	approx. 7.5 W

Dimensions/Weight	
Dimensions (H x W x D)	approx. 1.9 x 4.7 x 9.6" approx. 48 x 120 x 242.6 mm
Weight	approx. 1.46 lbs / 0.66 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

8. Other Mini Products

The MINIFEX belongs to the MINI suite of BEHRINGER products, which can operate together and are introduced below:

MINIAMP AMP800

Ultra-compact 9.5" headphones amplifier system for studio and stage applications

- 4 totally independent stereo high-power amplifier sections
- Highest sonic quality with virtually all types of headphones even at maximum volume

MINICOM COM800

Ultra-compact 9.5" stereo modeling compressor for studio and stage applications

- 16 awesome preset models for the most typical compression applications (vocal, drums, guitar, keyboard, etc.)
- Dedicated Compressor Modeling control with LED's indicating the selected dynamics program

MINIMIC MIC800

Ultra-compact 9.5" microphone modeling preamp for studio and stage applications

- High-end preamplifier for all microphone, instrument and line-level sources. Perfectly complements studio-grade condenser mics
- Ultra-flexible Preamp Modeling allows you to quickly optimize your recordings

MINIMON MON800

Ultra-compact 9.5" monitor matrix mixer for studio and stage applications

- Dedicated input section with 4 selectable and mixable stereo inputs
- Accurate 6-digit LED main stereo output meters for precise level indication

MINIBEAT BEAT800

Ultra-compact 9.5" dual beat counter/phono preamp for studio and stage applications

- Intelligent dual BPM counters with Tempo Difference Indicator
- Ultra-flexible Beat Assist and Sync Lock functions

MINIFBQ FBQ800

Ultra-compact 9.5" graphic equalizer for studio and stage applications

- Revolutionary FBQ Feedback Detection System instantly reveals critical frequencies and can also be used as Audio Analyzer
- Additional Low Cut filter removes unwanted frequencies, e. g. floor rumble

MINIMIX MIX800

Ultra-compact 9.5" karaoke machine for studio and stage applications

- Revolutionary Voice Canceller—effectively eliminates vocals from any stereo source while retaining most music elements
- Integrated digital echo/reverb processor in 24-bit/40 kHz resolution for ultimate vocal enhancement

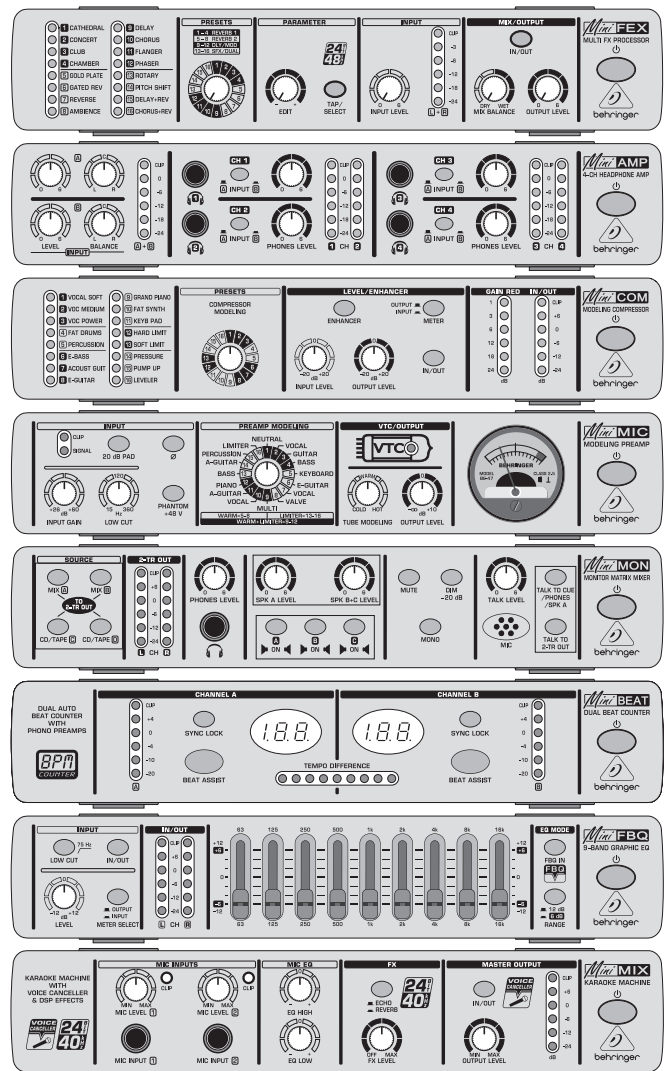


Fig. 8.1: MINI products stack on top of each other

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible party name: **MUSIC Group Services US Inc.**

Address: **18912 North Creek Parkway,
Suite 200 Bothell, WA 98011,
USA**

Phone/Fax No.: **Phone: +1 425 672 0816
Fax: +1 425 673 7647**

MINIFEX FEX800

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.



We Hear You