

FISCHER AMPS

Manual

In Ear Amp 8

[Art. No. 001123]



Dear customer:

You have decided to buy a ***Fischer Amps*** product. Thank you.

Please read this manual carefully prior to the first use, you will get important information for use and safety of the unit. These safety and operating instructions should be retained for future reference.

Should you have further questions, please do not hesitate to contact *FISCHER AMPS*.

Product Description:

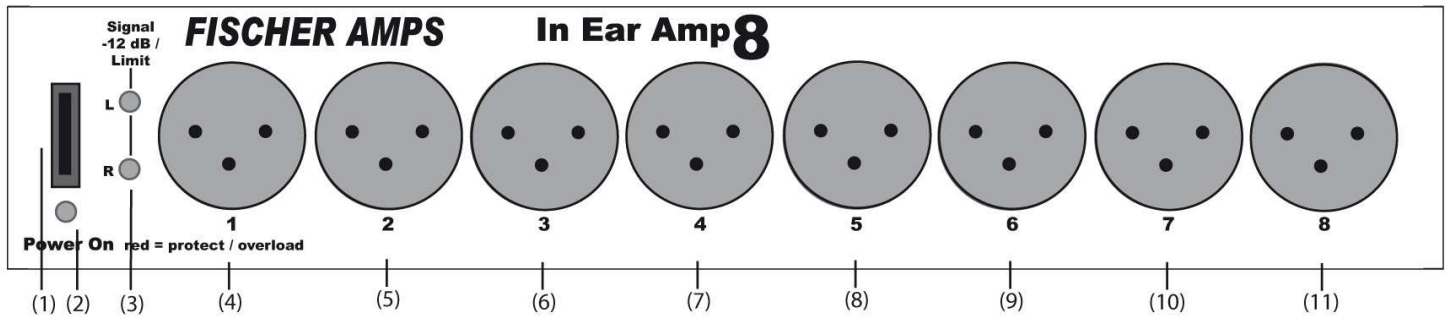
The perfect solution to provide up to eight musicians with an in ear mix. The half rack-space In Ear Amp 8 with eight XLR outputs is based on the Fischer Amps In Ear Amp 2. Musicians can control their volume individually with Fischer Amps Mini Body Packs with XLR input [Art. No. 001125]. The In Ear Amp 8 allows short cable routes on stage and cabling with standard microphone cables. Thanks to the Class A MOSFET amplifier with switchable output power, the unit can be used with high-impedance headphones as well as with low-impedance in ear earphones. The XLR inputs have parallel XLR outputs so that the signals can be looped-through to the next In Ear Amp. Using the In Ear Amp 8 is a simple but effective way to provide a stereo mix for a great number of listeners, the optimum system for orchestras, studios, conference rooms and budget-conscious productions.

Basic information on the use of in-ear monitoring systems:

CAUTION:

Using this system at too high sound levels may cause permanent hearing defects. Adjust the volume so that you can hear sufficiently. Ringing in the ears can indicate that the adjusted hearing level is too high. Use headphone systems with good fitting which suppress the ambient noise well. This allows that the required listening volume can be low which is kind to your ears.

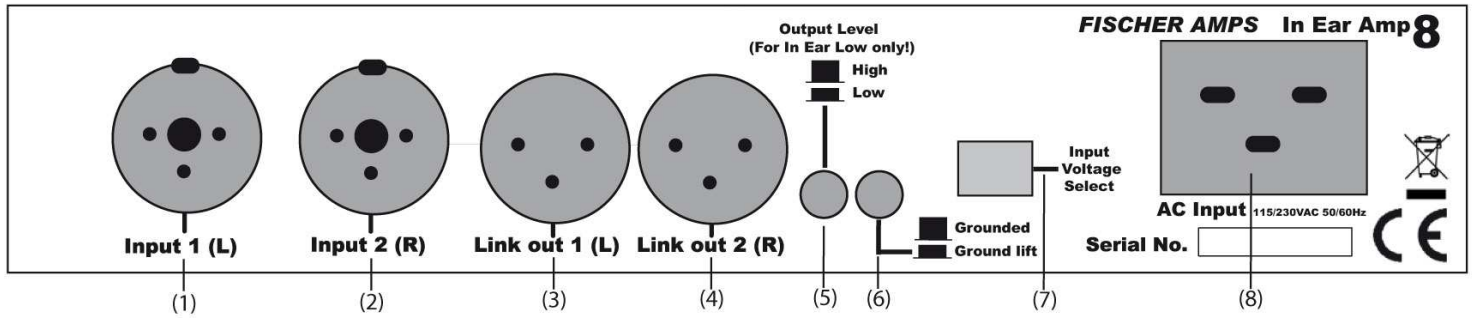
Actuators and Connections Front Side



Description of the actuators (front side) :

- (1)**
On/Off Switch
The operating voltage of the Amp is switched off on the mains side. When switched off, the Amp needs no power from the mains.
- (2)**
Control-LED
After switching on the Amp, the LED below the off/off power switch illuminates red for approx. 3 seconds and then changes to green. IN case of a defect inside the Amp or in case of overload, the internal relay cuts off the headphone output from the electronics and the LED illuminates red. If the LED does not change to green after switching on the Amp, there is an overload or the Amp is defective.
- (3)**
LED level indicator
Indicates the internal working level with two duo-LEDs (one each for left and right). Green indicates an input level of -15dB to +2dB, the red LED is illuminated when the level is +2.5dB or higher. Adjust the signal source (mixing console) so that there is a level of approx. 0dB at the output. With signal peaks, the red LEDs should flare up slightly. This guarantees a correct operating level of the limiter for instance with sudden level changes.
- (4-11)**
Earphones Outputs
Eight 3-pole, XLR male headphone/earphone jacks to connect a 3-pole standard microphone line in combination with the Fischer Amps Mini Body Pack XLR. With standard microphone cables, up to eight musicians can be supplied with the stereo signal of the In Ear Amp 8. The headphone signal can also be transmitted by a multicore or sub-multicore without needing an adaptor. The eight outputs are connected internally to a powerful headphone amplifier and all have the same output level. The artists can adjust their individual volume at the passive volume control of the Mini Body Pack. Position "Low" of the output level switch at the rear side of the unit allows headphone impedances from 12 to 40 ohms per output. Position "High" of the output level switch allows headphone impedances > 40 ohms. The XLR output connectors have following assignment: Pin 1 = Ground, Pin 2 = signal left, Pin 3 = signal right.

Actuators and Connections Back Side



(1 / 2)
 Combined XLR-
 Jack Connections
 Channel 1 (left), Channel 2 (right)

Connections of the input signal from the mixing console or other audio sources. Assignment of the combined XLR connection:

XLR	Stereo jack 1/4"
Pin 1 = Ground	Sleeve
Pin 2 = Signal +	Tip
Pin 3 = Signal -	Ring

With asymmetric wiring with XLR cables, PIN 3 should be assigned to ground (bridge in connection plug). Nominal input level 0dBu, adjustable at front side from -10 dB to +12 dB, input impedance 10kOhm.

(3 / 4)
 Link Outputs
 Channel 1 and 2

XLR outputs to loop input signals to more Amps.
 Pin assignment: Pin 1 = Ground, Pin 2 = Signal (+), Pin 3 = Signal (-)
 Please note: With asymmetric connection of inputs 1 and 2, the signal at the Link Out connectors is unbalanced as well and will not be balanced internally.

(5)
 Line-Output to Shaker Amp

When the switch is pressed, the signal at the Shaker Amp Line Out passes a low pass with a cutoff frequency of 80 Hz / 24 dB-oktave. This feature is very helpful when using a standard PA amplifier without integrated frequency crossover for the shaker. The cutoff frequency of 80 Hz corresponds to the optimum working level of the bass shakers. When the switch is not pressed, the signal is output full range. This is also the correct switch position when operating the Fischer Amps Shaker Amp or the ButtKicker Amplifier BKA 1000-4 in combination with the Fischer Amps In Ear Amp 2, as these units have an integrated, controllable low pass.

(6)
 Ground Lift Button

Separates the audio ground from the system and cabinet ground. When there is a ground loop when connecting various appliances, pressing the Ground Lift Button can solve the problem. (The cabinet of the In Ear Amp 8 is still connected with the protective ground of the power supply).

(7)
Input Voltage Select
115V /230V

Switch to adjust the appliance to the country's supply voltage 230V AC or 115V AC. Before switchover, always switch off the appliance and disconnect the mains cable from the operating voltage. Doing so prevents overload of the internal PSU. It is not necessary to replace a fuse in the appliance for adjusting the operating current.


(8)
Power In Jack

3-pole Euro mains socket to connect the provided 3-pole Euro power cable. To supply the appliance with voltage, connect it to a grounded power outlet. The metal casing of the appliance is permanently connected to the internal ground wire. The self-resetting fuses are all inside the appliance and do not have to be replaced in case of fault, but reset after trouble-shooting. If the power cable is damaged, replace it by a new, reliable cable immediately.

Specifications	
Dimensions: L x W x H:	220 x 190 x 43 mm
Weight:	2.4 kg
Operating Voltage:	115V AC or 230V AC 50/60 Hz, switchable
Power Consumption:	18 W max.
Mains Connection:	Euro power connector, 3-pole
Frequency Response:	20 Hz to 50 kHz +/- 1 dB
Power Headphone Amp (low Level)	max. 190 mW, minimum impedance 8 ohms max. 1.2 V RMS, 0.0026% THD at 1 kHz
Power Headphone Amp (high Level)	max. 400 mW, minimum impedance 40 ohms max. 4 V RMS, 0.0025% THD at 1 kHz
Limiter in Headphone Amp:	yes (cannot be disabled, internal level +4 dB)
Input Connectors:	2 x combined XLR/jack, balanced, 0 dB input level 1 x Stereo Aux-Input jack, unbalanced at front side, -10dB
Outputs:	2 x XLR Link out, 1 x Line Out Shaker-Amp, jack
Headphone Outputs:	1 x XLR male for Guitar In Ear Cable 1 x stereo jack with adaptor 1/8"

WARRANTY:

The manufacturer grants a warranty of 24 months from the date of purchase by the original owner for defects in materials or workmanship. When the appliance has been subject to misuse or has been altered, the warranty expires. When returning the defective unit, enclose the receipt, pack the unit to avoid transit damage, and return the unit carriage prepaid. The manufacturer does not accept carriage forward consignments.

	<p>Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)</p> <p>This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the 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 for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.</p> <p>The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.</p>
---	---

FISCHER AMPS

HANS-ULRICH-BREYMANN-STR. 3, D-74706 OSTERBURKEN

TEL: +49 (0) 62 91-648 79 0, FAX: 648 79 19

E-MAIL: info@fischer-amps.de, Internet: www.fischer-amps.de



Assembly Instructions 9.5-inch Units

FISCHER AMPS

Dear **FISCHER AMPS** User:

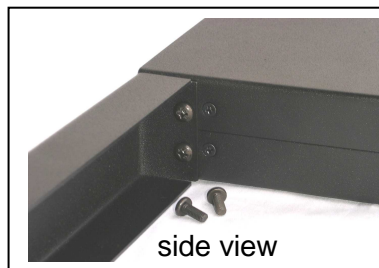
Our 9.5-inch (half rackspace) units can be used as desktop units, or can be integrated into 19" racks, either individually or combined with other 9.5-inch Fischer Amps units.

For assembly, you just need a Phillips screwdriver size 1.

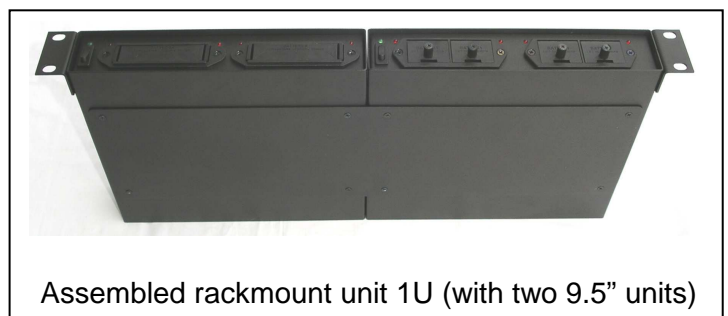
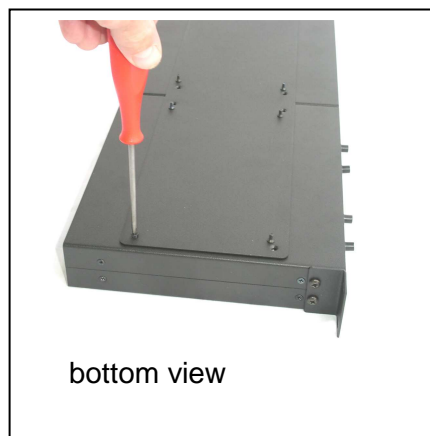
Parts supplied with a 9.5-inch unit (see picture)



Assembly of the brackets when using the single unit in a 19" rack:



Assembly of two Fischer Amps 9.5-inch Units into one 19" 1U:



FISCHER AMPS

Hans-Ulrich-Breymann-Str.3, D-74706 OSTERBURKEN, FON +49 (0) 62 91 – 648 79 - 0, FAX 648 79 - 39

E-MAIL: info@fischer-amps.de, Internet: www.fischer-amps.de

Notes:

FISCHER AMPS

Hans-Ulrich-Breymann-Str. 3, D-74706 Osterburken / Germany

Phone +49 (0)6291-648 79-0, Fax 648 79-19

E-MAIL: info@fischer-amps.de, Internet: www.fischer-amps.de

