

# SHAKER AMP 400



[Art. No. 001151]

**Dear customer:**

Thank you for choosing **FISCHER AMPS**.

**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:**

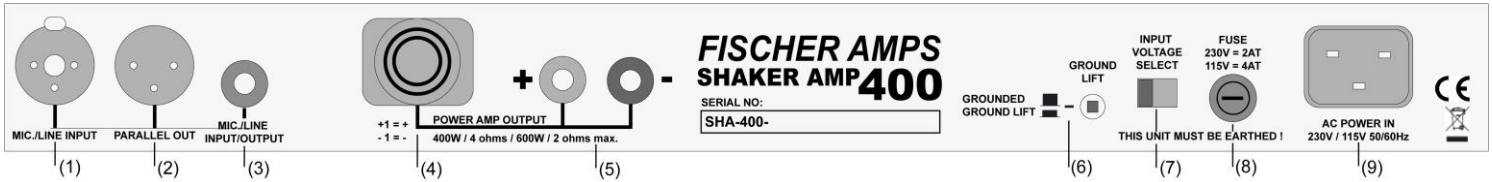
Rackmount Amplifier (19-inch) to operate a low frequency transducer ButtKicker LFE with a power of 500W into 4 ohms. A microphone preamp with add-on 48V phantom power and -20 dB Pad switch is integrated in the Shaker Amp 400 which allows to connect bass drum microphones directly. The combined XLR/jack connector is equipped with a parallel out to loop the input signal. The add-on active crossover (low pass 40 to 200 Hz / 12 dB/oct.) and an add-on high pass with 20 Hz adjust the signal if necessary to the optimum working frequency of the shaker. The Shaker Amp 400 is perfect for use with the FISCHER AMPS In Ear Amp or with a mixing console to operate the ButtKicker LFE low frequency transducer (4 ohms version). World-wide application possible 115V/230V AC

# Actuators and Connections Front Side



- (1)**  
Power Switch  
(with control lamp)
- Activate mains voltage. The Shaker Amps does not consume electric current when switched off.
- (2)**  
Volume Control:
- Adjust volume (intensity) of the power amp output.
- (3)**  
Add-On High Cut:
- This pushbutton activates the adjustable high cut (low pass). Tactile transducers are designed to reproduce bass frequencies which requires filtering of the high frequencies. The optimum crossover frequency is adjusted by means of the high-cut control.
- (4)**  
Add-On Low Cut:
- The add-on low cut (high pass) filters extreme low frequency signals below 20 Hz. This prevents the transmission of unwanted air noise when the bass drum is operated directly.
- (5)**  
High-Cut Control:
- Adjust upper crossover frequency when the high-cut is activated. 70 to 90 Hz is a practice-oriented value for the bass drum.
- (6)**  
Signal LEDs:
- The signal LEDs indicate the input level after the gain input. The level is adjusted with the gain control so that the yellow 0 dB LED lights with incoming signals. The red LED should only flash when there are loud signals. When the level is adjusted too high, the red LED lights constantly. If so, the integrated limiter reduces the level to avoid damage at the tactile transducer or overload of the amplifier.
- (7)**  
Pad Switch (- 20 dB):
- The Pad switch attenuates the level by -20 dB before the input stage. When the input signal has a higher level and thus the red LED lights, press this button to adjust the optimum input gain.
- (8)**  
48V Phantom Power:
- Activation of microphone phantom power 48V to operate condenser microphones at the XLR input. Only switch on phantom power when a condenser microphone is connected.
- (9)**  
Gain Control:
- Adjust gain of the microphone input. When the Pad switch is pushed the adjusted gain is reduced by -20 dB.
- (10)**  
Protect LED:
- Detects problems with the power amplifier stage in case of a failure or a shortcut from the connection to the shaker. Please check whether there is a short circuit in the loudspeaker- or shaker connection.

## Actuators and Connections Back Side



**(1)**

Mic. / Line-Input (XLR-jack combi plug)

Signal input for the microphone or line input (balanced).

This input also handles unbalanced signals with a mono jack connector. Unbalanced signals with an XLR connector require that Pin 3 and Pin 1 of the plug are connected to audio ground. Phantom power is only possible with balanced input signal of the microphone.

**(2)**

Mic. / Line-Out / Thru-Out (XLR-male)

This input allows to loop the input signal to another unit.

The output and the input have a non-switched connection and function even when the Shaker Amp is switched off. Here the phantom power is output as well. This means that when two units are connected (Shaker Amp and e. g. mixing console), only activate one of the 48V phantom supplies.

**(3)**

Jack ¼ " Input/Output

Balanced ¼ " jack In/Out parallel to the XLR-Input.

**(4)**

Speakon-Power Amp Out

Speakon output to connect the tactile transducer or loudspeaker. Jack 1 + and 1 – are assigned at the quadripolar Speakon output. The amplifier generates 500 watts max. into 4 ohms.

**(5)**

Binding Post Output

parallel to the Speakon Output

**(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 Shaker Amp 400 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.

**(8)**

Fuse holder

Fuse holder with the 2.0 A power fuse for use with AC power 230V, for use with 115V AC change the fuse to a 4 AT.

**(9)**

AC Power Input Connection

IEC 3 pole jack to plug in the power cable. Pay attention that the mains voltage is correct.

### Safety Information for the Shaker Amp:

- There are air slots at the side of the unit. During operation, the unit produces heat, therefore do not close these slots (danger of overheating).
- There are no parts inside the appliance which need maintenance service.
- Before opening the appliance, pull the power plug.
- Only operate the appliance at grounded current systems which fulfill VDE requirements. When in operation, the Shaker Amp needs protective earthing.
- Do not expose to humidity. When switched off, clean with a slightly damp cloth.
- As loudspeaker connection, provide cable with at least 1.5 sqmm wire cross-section, when the cable is longer than 6 m 2.5 sqmm wire cross-section.
- Do not connect load impedances less than 3 ohms to the amplifier output. Doing so can damage or overheat the amplifier.
- 

| Specifications          |   |
|-------------------------|---|
| Weight:                 | 2.8 kg  |
| Dimensions (W x H x D): | 483 x 195 x 44 mm (19", 1U high)  |
| Operating Voltage:      | 115 / 230V AC, 50/60 Hz, switchable<br>Fuse 2.0AT @ 230V, 4.0AT @ 115V                            |
| Output Power:           | 500W @ 4 ohms   |
| Input Connectors:       | Balanced XLR/jack combi connector<br>and link-out via XLR, In/out jack 1/4 " balanced             |
| Input Gain              | Adjustable – 8 dB to +60 dB (with -20 dB Pad)   |
| Output Connectors:      | Speakon-Out, Binding Post   |
| Crossover (active):     | Add-on low pass adjustable from<br>40 to 200 Hz, 12 dB/oct.<br>Add-on high pass 20 Hz, 12 dB/oct. |

### 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.



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

**Phone: +49 (0) 62 91- 6 48 79-0, Fax: 6 48 79 19**

**E-MAIL: [info@fischer-amps.de](mailto:info@fischer-amps.de), Internet: [www.fischer-amps.de](http://www.fischer-amps.de)**

