

OFFICIAL WARWICK AMP OWNER MANUAL



ENGLISH

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Congratulations on the purchase of the new Warwick amplifier head/combo. Please read these instructions through before connecting and operating the device. If you keep to the guidelines set out in this manual, you will soon be able to appreciate the quality of this new Warwick amplifier. Please keep this instruction booklet handy in case you need to consult it again. Please send the PASSPORT to the address indicated therein.

Hints

Protective Circuits

Instructions

Suffix

Technical Data

Schematic Diagrams

RECOMMENDATIONS

The following recommendations are designed to ensure that the device always functions reliably:

- Never open the casing! To do so would expose you to the risk of an electric shock. Should repairs prove necessary, leave them to qualified service personnel.
- Avoid dust and high moisture levels, direct sunlight and extremely high or low temperature.
- Safeguard the device from excessive vibration. Always place the unit on a stable and horizontal surface.
- See to adequate ventilation. The device should not be placed on soft surfaces (carpet, cushions, etc.). When mounting it in a rack, make sure that the rear and lateral cooling vents remain unobstructed (amp heads), resp. that the rear cooling vents remain unobstructed (combos).
- Avoid leaving the unit near radiators or other objects producing heat.
- Internal components should only be adjusted or cleaned by qualified service technicians. Ensure no object or liquid penetrates the device through its cooling vents.
- When replacing a fuse make sure you fit in one of identical value!

Have the device examined by a qualified service technician in the following cases:

- the mains lead or mains switch have been damaged,
- objects or liquids have penetrated the device,
- it has been exposed to excessive moisture,
- malfunctions or abnormal operating conditions have occurred,
- the device has been dropped or the casing damaged.

HINTS

To ensure secure rack or sleeve mounting you will find two nuts on the bottom side of the amplifier for additional fastening (all amp heads).

Do only operate effects pedals in-between the instrument and the amplifier, as these devices are not designed for the supplied load of an effects loop.

Remove the plug whenever changing a fuse.

- Only ever replace a fuse with another of the same type. Never bridge defective fuses.
- Make sure the top and bottom of the device are properly ventilated and that the vents are not blocked. In the rack, leave at least 2cm free above the unit and do not remove the feet. (Quadruplet)
- Do not subject the device to excessive vibration or hard jolts as these could damage the valves ("tubes").
- After using the device, allow around 10 minutes for the valves to cool down before moving it.
- At power-up, the valves (tubes) need at least 30 seconds to warm up before achieving operation readiness and a further few minutes before they can deliver full power.
- When changing the valves, replace them only with valves selected by Warwick, to avoid problems like noise, micropho-nism and imbalance. (special selection criteria).
- Valves can become very hot. Danger of combustion.
- Don't undertake repairs yourself.
- Only allow the case to be opened by qualified personnel. (Remove the plug).
- Repairs and valve changes should only be undertaken

Each W-Pro unit has been conceived to match perfectly as a system-component within this series. Therefore best sound results can be achieved by mutual combination of these devices. Many combinations are possible and allow gradual upgrading of several high-quality systems within different performance scales and for almost every kind of application.

SHOULD YOU FIND YOURSELF ONE DAY WONDERING: "WHY IS THERE NO SOUND COMING OUT?"

please check:

- the position of the Balance Stereo BiAmp control (Pro Tube IX),
- all stub cables,
- all connections of these cables

and proceed anew by following the guidelines of the chapter GETTING STARTED. Possibly the problem reveals to be an operational error.

PROTECTIVE CIRCUITS

Your new Warwick amplifier is equipped with a series of circuits to prevent it from destruction in case of inadequate operating conditions:

- Power-up delay:** When the unit is switched on, the sockets are activated with a slight delay to protect the loudspeakers.
- SPEAKER OUT**
- Short-circuit:** In the event of a short-circuit at the power amp outputs, this feature prevents the output stage transistors from destruction by quickly reducing current.
- Direct current (DC):** This circuit continuously monitors the power amp output for direct current and protects the loudspeakers from overload should a transistor burn out.
- HF oscillation:** By switching the power amp off, this safety feature prevents from damages that could be caused by frequencies in excess of 20 kHz (feedback, etc.).

Excessive temperatures:

Should the temperature-regulated fan cooler prove to be insufficient in extreme conditions, this circuit protects the output stage transistors from destruction by switching the device off.

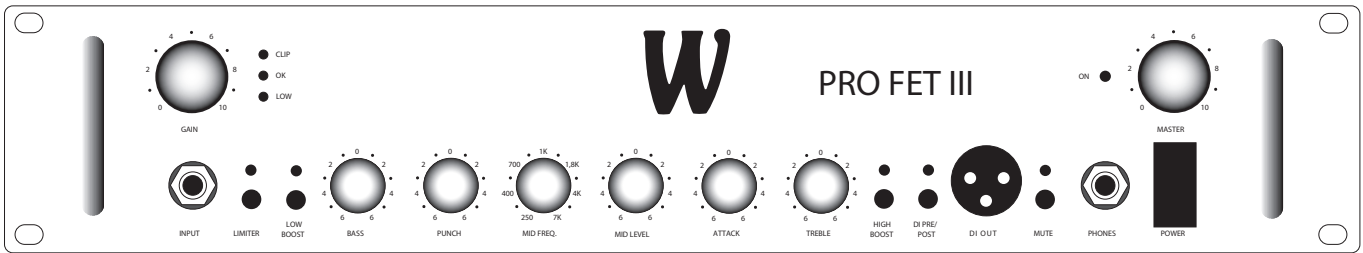
- Limiters:** The combos CL and CCL are equipped with a limiter, that limits the poweramp outputs to 150 watts (CL), 250 watts (CCL) in order to protect the loudspeakers.
- Note:** You can recognise that one of these circuits has been activated as a result of a fault, when the **MUTE LED** glows continuously even though you have not selected the MUTE mode. In case of a short-circuit please check the speaker cable. The amplifier must then be switched off and on again, to get back into playing mode after having removed the short-circuit. In any other situation on the amplifier switches automatically back to playing mode as soon as it detects the fault has disappeared (e.g. the amplifier has overheated and cooled down again).

GETTING STARTED TAKE 12, SWEET 15, CL, CCL, PRO FET III, PRO FET IV

1. Make sure that loudspeakers capable of sustaining the load of a bass signal are connected to the **SPEAKER OUT** sockets (the speaker cables should meet a cross-section of at least 2 x 1.5 mm), resp. the speaker unit should be linked to the **SPEAKER OUT** at the combos.
2. Check that the mains supply has been plugged in and that all external (effects) units possibly used are correctly connected and operational.
3. Set the **MASTER** control to zero.
4. Plug your bass guitar into the amplifier's **INPUT** with a shielded line-cable.
5. Press the **POWER** switch to turn the device on.
6. Switch **MUTE** off and the red LED will extinguish.
7. Switch the **LIMITER** off (the 2-colored LED will extinguish).
8. Turn all volume controls of your bass guitar on to their maximum.
9. Adjust the **GAIN** control until the (loudly) played bass signal illuminates the **OK** LED.
10. Set the **MASTER** control to the volume you wish to play at.
11. Adjust the sound that you wish with the controls and switches described in the respective chapters FRONT PANEL CONTROLS.
12. If necessary readjust **GAIN**.
13. Should you seek for a peak limited sound, activate the **LIMITER** (LED green) and fix its threshold (LED shifts to red) with **GAIN**, respectively with the +/- 0dB ratio of the graphic EQ (Pro Fet IV).

AMPS

FRONT PANEL CONTROLS



INPUT GAIN LIMITER

socket to plug in a bass guitar.
control + 3 LEDs to adjust the input level: CLIP: too high, OK: optimum, LOW: too low
switch + 2-colored LED to compress the signal within the preamp: LED green: Limiter on, LED red: the signal level is actually being reduced.

LOW BOOST BASS PUNCH

switch + LED for boosting low frequencies.
control for boosting/cutting low end.
control for boosting/cutting deep mids.

MID FREQ. MID LEVEL

control to determine a frequency.
control to boost/cut the frequency adjusted with the MID FREQ. control.

ATTACK

control for boosting/cutting high mids.

TREBLE

control to boost/cut high frequencies.

HIGH BOOST DI PRE/POST

switch + LED to boost treble.
switches the signal lying at the DI OUT socket, PRE (pressed) unmodified bass signal, or POST (unpressed) bass signal treated by the tone controls and possibly by connected effects devices.

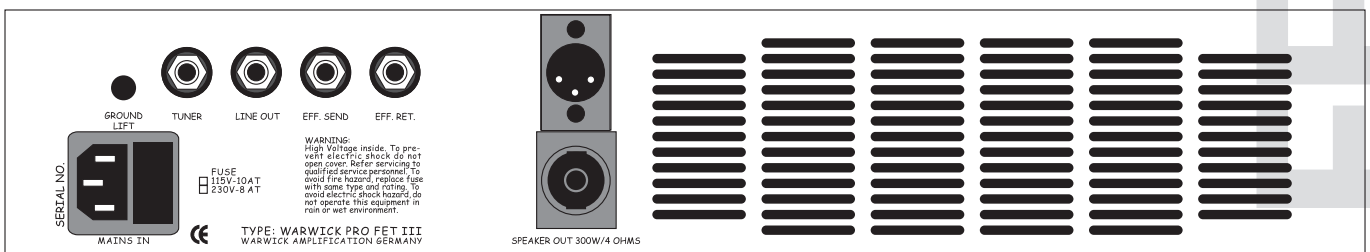
DI OUT MUTE

symmetrical output for supplying a stage or studio mixing console.
switch + LED cuts the signal from all outputs, except from the PHONES socket, and activates the TUNER output (rear panel). In case of signal flow at the power section (Input or Effects Return), there might appear a popping noise when MUTE is pressed. To avoid this, mute your strings or have effects like delays muted when pressing the MUTE button.

MASTER PHONES POWER

control determines the mains level.
socket for connecting a headphone (min 200 Ω).
switch + green LED for turning the amplifier on and off

REAR PANEL



MAINS IN AC GROUND LIFT

Terminal with integrated fuse compartment for connecting the amplifier to the current network.
switch isolates the earth connection from the ground of signal. Should several devices be simultaneously connected to earth by the same conductor as well as via line connections, a so called hum loop might appear. In this case operate GROUND LIFT to eliminate the current hum (when pressed).

TUNER OUT

socket for the connection of a tuner. When MUTE mode is activated, the unmodified bass signal is retained here.

LINE OUT EFF. LOOP

sockets allow to connect additional power amplifiers or active speakers.
for the insertion of effects units. Connect SEND with the input and RETURN with the output of the effects device.

SPEAKER OUT

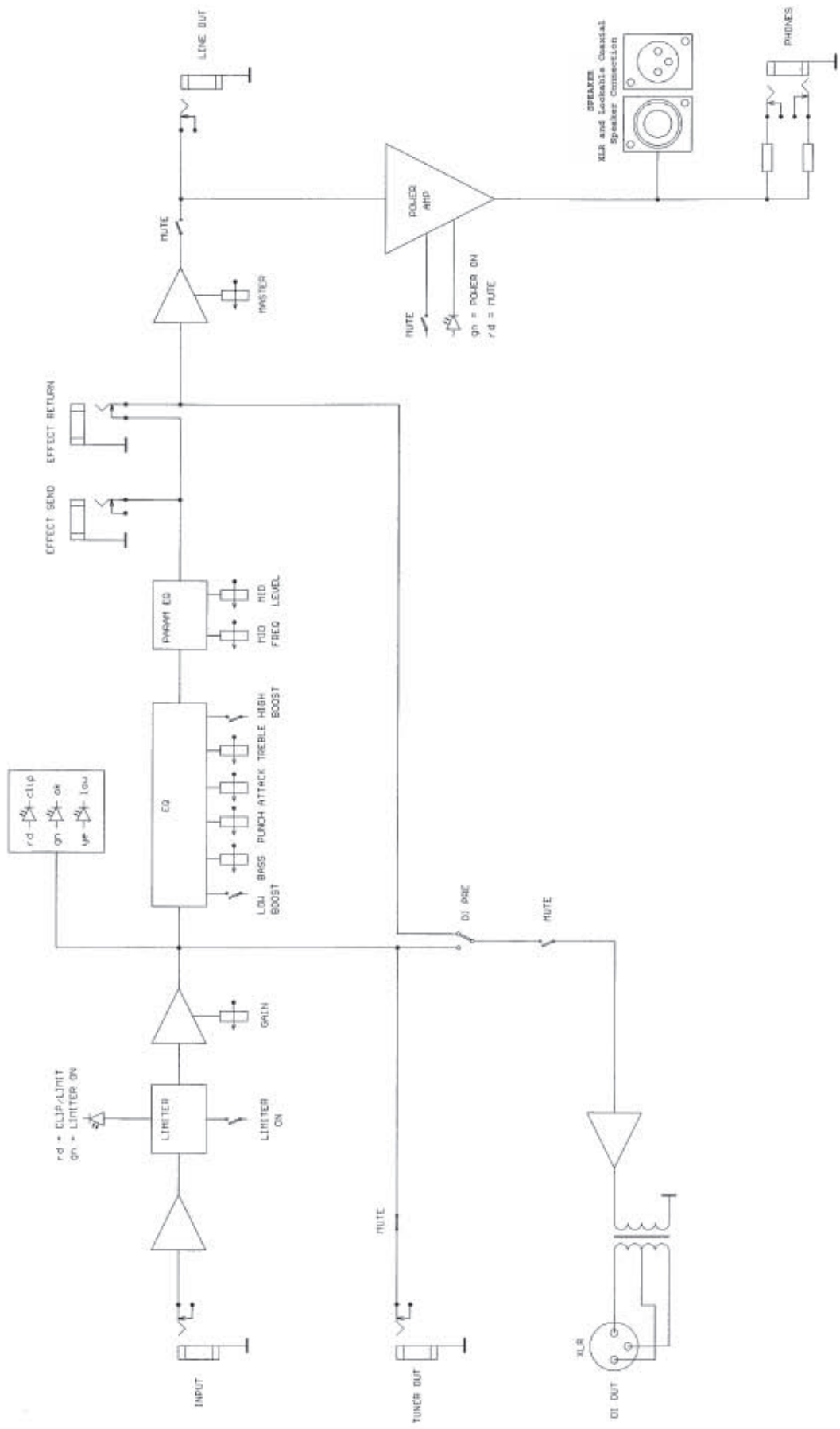
for supplying loudspeaker cabinets. One XLR and one Lockable Coaxial Speaker Connection socket are provided. Both are connected in parallel. The signal from the Lockable Coaxial Speaker Connection outputs is lead by 1+ and 1-.

TECHNICAL DATA

	Pro Fet III
Input	25 mV
Preamp CH 1	transistor active controlled
Preamp CH 2	none
Poweramp	fan cooled (non permanent)
CH 1 Equalizer	bass, punch, param. mids with freq. and level con- trols, attack, treble, low boost and high boost switches. Dyn. control with switchable limiter
CH 2 Equalizer	none
Headphone	200 Ω
Direct Out	0 dB, 600 Ω
Effects Loops	mono serial send 0 dBu, 600 Ω return 0 dBu, 10 k Ω
Switches	ground lift, DI pre/post
Rear Control	none
Footswitch Jack	none
Nominal Power	300 W / 4 Ω XLR & Lockable Coaxial Speaker Connection
THD	<0.1%
Weight (kg)	11,5
Dimensions	19" / 483 x 90 x 375

CIRCUIT DIAGRAM

PRO FEET III



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