

TUBE POWERAMP

830/30

830/50

Operator's Manual

Please, first read this manual carefully!

The **ENGL** 830 all-tube power amp not only delivers top-notch tube tone and 2x50 watts (model 830.30, 2x30 watts) of power, it also incorporates a number of technical advantages and practical features.

The two A and B Presence controls enable you to activate two different treble presets at the power amp. The Gain switch provides optimum signal level adjustment at both inputs. Separate Standby switches provide a single p.a.side operation option.

The integrated ECS (Emergency Circuit System) protects the amp from damage due to power tube defects/failure and ensures the amp does not shut down. It continues to function on both channels; the affected channel operates at a reduced power output level.

This amp is defined by the effort and materials that went into it: intelligent design features, superior craftsmanship, impeccable finishing and quality components. However keep in mind, that a few precautions will radically extend tube life (see handling and care guidness). The entire **ENGL** -Team would like to thank you for your faith in our product; we hope you derive a great deal of joy and satisfaction from your **ENGL** -TUBE POWERAMP 830.

PLEASE NOTE: Read the Operator's Manual carefully and thoroughly, especially the Handling and Care section as well as the guidelines in bold-face type. Avoid operating errors and potential damage to the amp by heeding the guidelines and cautionary remarks in this manual. The footnotes also cover a few convenient pointers and interesting tips on several functions. These are listed on side 3 of the manual.

TIP 1

A practical application of the PRESENCE switching feature in conjunction with a dual channel preamp (clean/lead): PRESENCE A controls set between the 1 and 4 o'clock positions; PRESENCE B controls set between the 8 and 11 o'clock positions. Activate PRESENCE A in the clean mode and PRESENCE B for the lead mode. You can also access two different tonal variations in each of the operating modes (i.e. clean & lead) using the PRESENCE function as described in this example.

TIP 2

This amp is designed for one speaker cabinet per channel. If you decide to connect additional speakers, ensure you keep the overall impedance in mind! For instance, if you want to connect two 8Z systems per side, you must first connect them in series and then to the amp's 16Z outputs. The **ENGL** -Speaker Cabinet Extension offers a number of options, right up to four cabinets per channel.

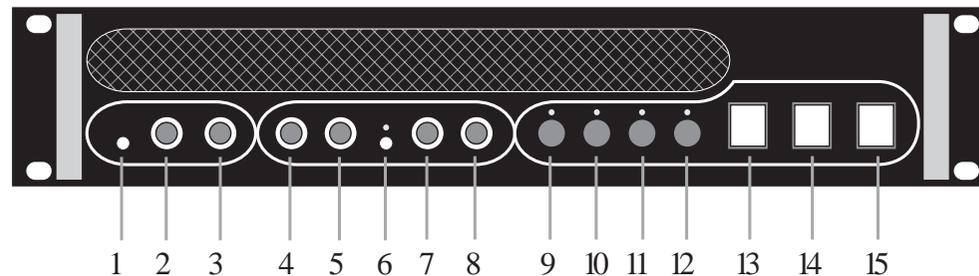
If you are using a stereo speaker for both channels, ensure it actually operates in the stereo mode, otherwise you may damage the power amp. A convincing stereo image is achieved via a quality stereo effects processor and a separate speaker for each channel.

The 830.30 model is perfectly suited for studio-recording or club gigs. Additionally it offers the advantage to reach tube poweramp distortion at a moderate volume with authentic sounds.

TIP 3

The Presence A/B switching function can be executed via a Looper or other MIDI devices that feature a freely-programmable switching input. If the ground and the circuit are identical in the MIDI device then you may encounter ground hum.

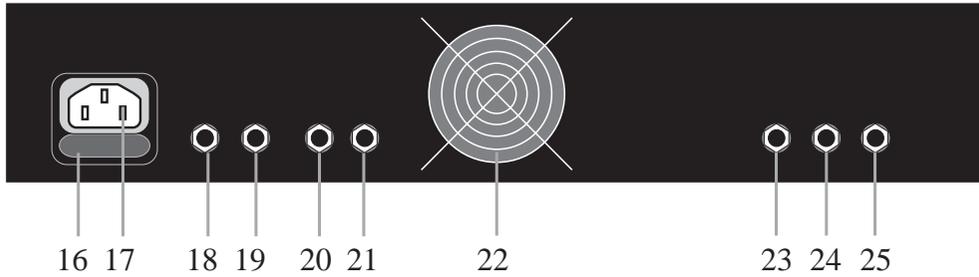
Front Panel



- | | | | |
|---|--|----|---|
| 1 | Gain(Lo/Hi) power amps' input sensitivity | 9 | Power Tube Fuse power tube fuse (ECS) for tube pair V4 und V5 (830.50) LED indicates defective fuse |
| 2 | Volume Left volume control for the left power amp | 10 | Power Tube Fuse power tube fuse (ECS) for tube pair V6 und V7 (830.50) LED indicates defective fuse In model 830.30: tube pair V4 und V6 |
| 3 | Volume Right volume control for the right power amp | 11 | Power Tube Fuse power tube fuse (ECS) for tube pair V8 und V9 (830.50) LED indicates defective fuse In model 830.30: tube pair V9 und V11 |
| 4 | Presence A Left treble control A in the power amp, left channel | 12 | Power Tube Fuse power tube fuse (ECS) for tube pair V10 und V11 (830.50) LED indicates defective fuse |
| 5 | Presence B Left treble control B in the power amp, left channel | 13 | Standby Left left channel standby |
| 6 | Presence A/B Switching from PRESENCE A to PRESENCE B 1.Position Off: PRESENCE A active 2.Position On (pushed in): PRESENCE B active red LED indicates PRESENCE B active. PRESENCE A/B switching can be executed via footswitch; the PRESENCE A/B switch is then inactive | 14 | Standby Right right channel standby |
| 7 | Presence A Right treble control A in the power amp, right channel | 15 | Power AC power on/off |
| 8 | Presence B Right treble control B in the power amp, right channel | | |

TIP 1

Rear Panel



- 16 AC Socket
connect AC cord here
ATTENTION: Ensure you use an intact AC cord with an insulated plug only! Before you power the amp up, ensure the voltage value printed above the AC socket corresponds to the available current.
- 17 AC Fuse Box
contains mains fuse (rear chamber) and spare fuse (front chamber) NOTE: Ensure replacement fuses bear identical ratings (refer to the table)!
- 18 Speaker Output 16 Ohm, Right
16Z right channel speaker output jack; connect 16Z speaker cabinet here
- 19 Speaker Output 8 Ohm, Right
8Z right channel speaker output jack; connect 8Z speaker cabinet here
- TIP 2
- 20 Speaker Output 16 Ohm, Left
16Z left channel speaker output jack; connect 16Z speaker cabinet here
- 21 Speaker Output 8 Ohm, Left
8Z left channel speaker output jack; connect 8Z speaker cabinet here
IMPORTANT: If you choose to use just one power amp channel, ensure you switch the other channel's STANDBY switch off. Never operate an active stereo channel without a connected speaker, you may destroy the power amp!
- 22 Fan Shaft
ultra-quiet fan ensures your amp remains cool; hot air escapes via this shaft.
ATTENTION: Install the amp in a 19" rack in such a manner as to ensure air circulation is not impeded. Do not block or cover the fan shaft and side coolant vents.
- TIP 3
- 23 Footswitch Presence A/B
1/4" footswitch jack for PRESENCE A/B switching between PRESENCE A and PRESENCE B
- 24 Input Right
Signal input to right power amp
- 25 Input Left
Signal input to left power amp

Technical Data

| | |
|---|--|
| Rated power | 2x50 Watt (model 830.50) 2x30 Watt (model 830.30) |
| Outlet each channel | 1x8 Z , 1x16 Z |
| Input level | GAIN Lo: -15 dB max. 15 dB GAIN Hi: -30 dB max. 0 dB |
| Tubes | V1-> ECC83/12AX7 selected V2,V3-> ECC83/12AX7 standard |
| 830.50: V4,V5,V6,V7-> EL84, matched set V8,V9,V10,V11-> EL84, matched set | 830.30: V4,V6-> EL34, matched set V9,V11-> EL34, matched set |

Fuses

830.50

| | | |
|----------|---------|---------------|
| AC Mains | 230V | 100V und 120V |
| external | 2,5 AM | 5 AM medium |
| internal | 3,15 AT | 6,3 AT slow |

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| | | |
|----------|---------|---------------|
| AC Mains | 230V | 100V und 120V |
| external | 1,25 AM | 2,5 AM |
| internal | 1,6 AT | 3,15 AT |

Power Amp (ECS): 4x160m AM

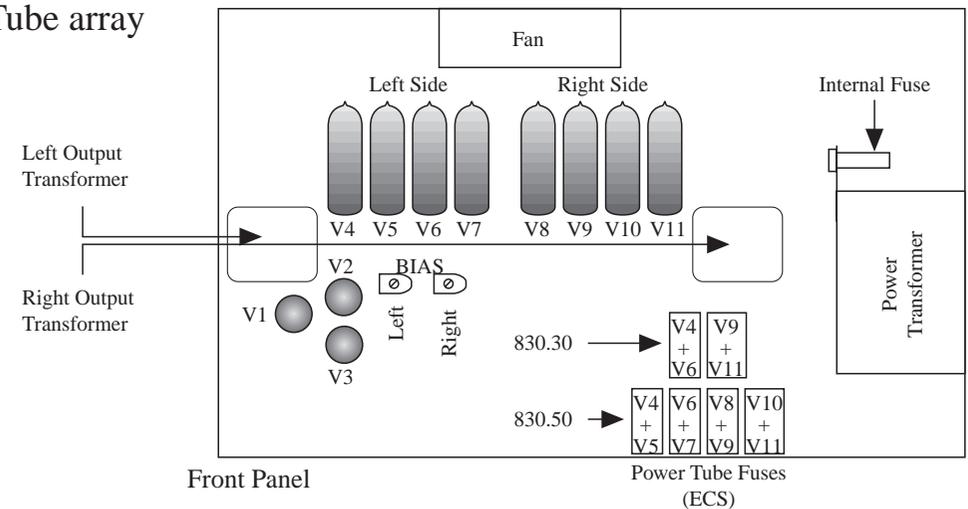
Power Amp (ECS): 2x160mAM

Caution: Replace fuses only with others of the same rating

Dimensions 19", 2 rack spaces, depth: 300mm (not including handles),

Weight app.12 kg

Tube array



E C S (Emergency Circuit System)

This circuit ensures the amplifier does not shut down completely when a single power tube fails. You can continue to play, but the affected channel's output power is reduced by 2/3rds (depending on the type of defect, in the 830.30 the power of the affected channel will nearly be 0). Gas developing in the power tubes can cause a momentary short circuit. The fuse activates, but the amp is not shut down! Often the tube absorbs the developed gas, and is operable after a short circuit. Usually the problem can be rectified by replacing the fuse, but if the new fuse activates as well, the defective power tube needs to be replaced.

Handling and Care

- Protect the amp from mechanical knocks (tubes!)
- Let the amp cool down before you transport it (app. 10 minutes).
- Tubes need about 20 seconds to warm up after you switch the power on
- Avoid storing the amp in damp or dusty rooms, they are hard on jacks, switches and potentiometers.
- Ensure air can circulate at the rear and both sides of the amp to allow for adequate cooling (increases component life).
- Never operate the amp without an adequate load
- Replace tubes with select **ENGL** replacement tubes (special selection criteria) to avoid microphonic properties, undesirable noise and unbalanced performance

Attention! Please read the following!

- This Amp is in a position, to produce high volume levels. Exposure to high volume levels may cause hearing damage!
- Leave tube replacement and power amp biasing to a qualified professional. Ensure the unit is switched off and unplugged!
- Caution -tubes can get very hot and cause skin burns.
- Always use high-quality cables.
- Never operate the amp through an ungrounded outlet!
- Never bridge a defective fuse and ensure replacement fuses feature identical ratings!
- Pull the AC mains plug before replacing fuses!
- Never open the chassis or attempt repairs on your own. Consult qualified service personnel!
- Never expose the amplifier to extreme humidity or dampness!
- Please read the instructions carefully before operating the unit!

We reserve the right to make unannounced technical upgrades!