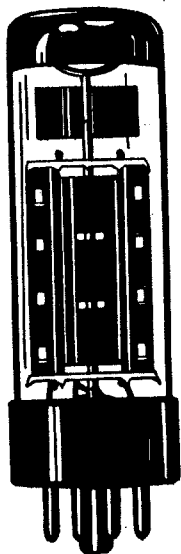


# ENGL

## *Tube-Poweramp*



**TYPE 920**

**OPERATING  
INSTRUCTION**

**CAUTION!**

Before turning the unit on, please make sure that the voltage shown in the red display panel of the voltage selector (on the rear panel, next to the mains socket) complies with the mains voltage!

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The Engl tube poweramp is a high quality, all tube stereo power-amp with an output power of 2 x 50 or 2 x 100 watts RMS. In addition to a superb tube sound, it offers a large number of interesting and useful controls and switching facilities. Each of the two stereo channels has 2 inputs, 2 volume and 2 presence controls. This enables the user to switch e.g. between two preamps with two different overall volume and presence level settings. Switching can be effected manually on the unit itself, by means of a footswitch or via MIDI or the Engl Program System. MIDI and the Program System are optional and offer programmable switching. Another unique feature: there are no less than 10 speaker outputs with 3 different impedances, which in turn allows many combinations of various speaker cabinets.

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Front Panel:

- Gain - Input sensitivity selector button  
Lo - low (line level)  
Hi - high (instrument level), pressed
- Volume Left A - Level control left channel, A  
Volume Left B - Level control left channel, B
- Selection by means of the Volume A/B switch  
(ext. F/S or, if built in, via MIDI or PGS).  
The LEDs show which of the controls are active:  
Red = A / Green = B.

- LED flashes: Information via MIDI or PGS line.
- Volume Right A - Level control right channel, A
- Volume Right B - Level control right channel, B
- See Volume Left!
- Vol. A/B - Selector for simultaneous switching between:
1. Output level controls  
(Left + Right between A & B), and
  2. Inputs A & B (rear panel)
- Presence Left A - Treble control (poweramp), left channel, A
- Presence Left B - Treble control (poweramp), left channel, B
- Presence Right A - Treble control (poweramp), right channel, A
- Presence Right B - Treble control (poweramp), right channel, B
- Selection by means of the Pres. A/B switch  
(ext. F/S or, if built in, via MIDI or PGS).  
The LEDs show which of the controls are active:  
Red = A / Green = B.  
LED flashes: Information via MIDI or PGS line.
- Standby Left - Standby switch left channel
- Standby Right - Standby switch right channel
- Should be activated only after approx. 30 sec.  
after turn-on; the amp is now ready for use.  
During longer breaks, or when using only one  
channel, activate the Standby switch(es) to  
save tube life.
- Power - ON/OFF switch (mains voltage)

Rear Panel:

Mains socket with integrated mains fuse. Replace blown fuse only  
with a type of the same rating - see table!

Rear Compartment = Mains fuse

- Front Compartment = Spare fuse
- Voltage Selector - Switches between 230V and 115V of mains voltage.
- Acceptable voltage range:  
200  $\approx$  250V or  
100  $\approx$  125V
- Fan - Fan speed selector
- Lo - low
- Hi - high
- Should be set to the 'Hi' position when using the poweramp at high volume levels. The 'Lo' position is designed for studio or homerecording use, where a low fan noise is required.

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MIDI/Program System Section (only if MIDI or PGS is built in!)

With MIDI:

- WRITE - Store button for programming Vol. A/B and Pres. A/B selections in the respective MIDI programmes (00-99; Omni Mode).
- WRITE Control LED - Lights up shortly when programming (automatic write delay of approx. 2 sec. to prevent inadvertent programming). Furthermore, malfunctions of the MIDI computer are displayed by flashing. Remedial measure: Turn the unit off and on again.

With MIDI or PGS:

- Program System Out - Control output for additional Engl rack units, which are also programmed via the Engl Program System.

With MIDI:

- MIDI Thru - Sends a direct copy of the MIDI data to other MIDI devices.
- MIDI In - MIDI input; accepts the MIDI messages sent e.g. by the MIDI footswitch.

With PGS:

- Program System In - Program System input; accepts the PGS data sent by the MIDI-fied Engl rack unit.

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Air Duct

- C A U T I O N !

When installing the unit in a 19" rack system, make sure to leave enough rack-space for unhindered air flow!  
Do not cover the opening or the ventilation slots!

Input Right

- Master A - Right channel input - A (always use Master A when using only one input!)
- Master B - Right channel input - B

Function Switch:

- Only Master A - If only one pair of inputs (Left & Right) is needed, you may still switch between the two sets of volume controls (e.g. to achieve different volume levels on two preamp leadsounds).  
In this case, use the Master A inputs and set the switch to this position.

- Changing A/B - This position must be used if you want to switch between two different stereo signals (e.g. from two preamps). Switching is effected by means of the Vol. A/B switch on the front panel.
- Input Left
- Master A - Left channel input - A (always use Master A when using only one input!)
- Master B - Left channel input - B
- Footswitch Write - External programming with a footswitch (can only be used if the unit is fitted with the MIDI card!)
- Speaker 16 Ohm - 16Ω speaker outputs for connecting one 16Ω cabinet/channel
- Right - Right channel
- Left - Left channel
- Footswitch - Provided for connecting a dual footswitch (stereo jack!) for external switching of Vol. A/B and Pres. A/B
- Speaker 8 Ohm - Two parallel 8Ω speaker outputs/channel; one 8Ω or two 16Ω cabinets may be connected per channel.
- Right - Right channel
- Left - Left channel
- Speaker 4 Ohm - Two parallel 4Ω speaker outputs/channel; one 4Ω or two 8Ω cabinets may be connected per channel.
- Right - Right channel
- Left - Left channel

Specifications

	<u>920/50</u>	<u>920/100</u>
Rated Output Power:	2 x 50 watts RMS	2 x 100 watts RMS
Peak Output Power:	2 x 100 watts	2 x 200 watts

At 230V/115V mains voltage in each case!

Frequency Response: 40Hz - 18kHz (-3dB)

Input Sensitivity: Lo: - 4dB; max. +18dB  
Hi: -23dB; max. + 3dB  
(0dB = 0,775V eff)

Outputs/Channel: 1 x 16 ohms  
2 x 8 ohms (parallel)  
2 x 4 ohms (parallel)

Tubes:	<u>920/50</u>	<u>920/100</u>
	3 x ECC83/12AX7 4 x EL34	3 x ECC83/12AX7 8 x EL34

Fuses:	ext./int.	ext./int.
115V 5A med / 3,15A sb		6,3A med / 4A sb
230V 2,5A med / 3,15A sb		3,15A med / 4A sb

Power Consumption:	300VA	560VA
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At rated output power

(MIDI) Receives in Omni Mode (100 channels)

Dimensions: 19" rack system, 3 HU  
(W x D x H) 48,3 x 32 x 13,5cm

Weight:	<u>920/50</u>	<u>920/100</u>
	15kg	18kg

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We reserve the right to alter specifications without notice!