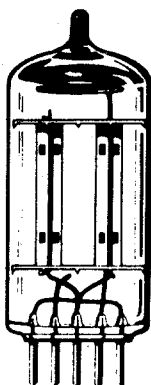


ENGL

Tube-Preamplifier

TYPE 520



**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!

With the Engl preamp #520 you now own an expandable, highly versatile 19" all-tube guitar preamp, that offers with its 3 channels (Clean /Rhythm / Lead) a great variety of superb basic sounds. Furthermore, there are two effective sets of tone controls, a stereo effects loop and a stereo headphones socket. In addition, the channel selection may be effected via optional MIDI. In this case the #520 will be the basic module of the Engl Program System, which represents a control interface for other Engl rack models.

Please read this manual carefully, there are several points to be observed, especially in the sections 'MIDI' and 'headphones'.

Front Panel:

- Input - Guitar input, unbalanced jack
- Clean Channel
- Gain - Sensitivity control for matching different guitar pickups
- Bright - Upper treble boost
- Mid Boost - Lower midrange boost
- Hi Boost - Lower treble boost
- Clean/Lead - Channel selector; switches between Clean and Rhythm/Lead Channel. An LED above the respective Master Volume control shows which mode is activated.
- Bass - Bass control
- Middle - Midrange control
- Treble - Treble control
- Clean Ma. - Clean channel master volume

Rhythm/Lead Channel

- Gain - Sensitivity control for Rhythm/Lead Channel; sets the amount of overdrive for both channels.
- Bright - Treble boost
- Lead Boost - Level boost in the lead channel for smoother leadsounds with slightly more bass accentuation.
- Mid Boost - Midrange boost
- Rhythm/Lead - Channel selector; switches between Rhythm and Lead.
- Lead - Overdrive control; the overdrive intensity ratio can be set with the Gain and Lead controls.
- Bass - Bass control
- Middle - Midrange control
- Treble - Treble control
- Presence - Treble control with a different performance (e.g. for poweramps without a presence control and mixing desks).
- Rhythm Ma. - Rhythm channel master volume
- Lead Ma. - Lead channel master volume
- 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

MIDI/Program System Section

(only if MIDI or PGS is built in!)

With MIDI:

- WRITE - Store button for programming Clean/Lead mode selection 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 incoming MIDI data to control 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.

Footswitch

- Write - External programming with a footswitch
(can only be used if the unit is fitted
with the MIDI card!)
- Clean/Lead > Channel selection via external footswitch
- Rhythm/Lead
- Send - Effects loop - output (to effects unit)
- Return R - Effects loop - input right channel
(from effects unit)
- Return L - Effects loop - input left channel
(from effects unit)
- Stereo Headphone - Output for stereo headphones (4 - 32 Ω)
May also be used as a low-power amplifier
(approx. 1W max./4 Ω) for driving speaker
cabinets (e.g. when practising at home etc.).

CAUTION!

Always use a stereo jack plug, even for mono
operation with one speaker cabinet.
Use only one channel - do not parallel them,
as the second channel will be shorted when
using a mono plug. This may do severe harm to
the headphones amp!

Instrument

- Line - Output level selector button
- Instrument: Lo > Always turn the poweramp off
before using this button!
- Line: Hi
- Output R - Preamp out, right channel (to poweramp/mixer)
- Output L - Preamp out, left channel (to poweramp/mixer)

Aux. In. - Second instrument input on the rear panel;
 can be used in connection with a looper
 etc.

Specifications

Tubes: 4 x ECC83 / 12AX7A / 7025
The tubes are specially selected!

(MIDI) Receives in Omni Mode (100 channels)

Headphones: Approx. 2 x 1W output power at 4 Ω
Impedance: 4 - 32 Ω
Use only a stereo jack plug!

Fuses: External: 200mA at 220V
Internal: 315mA at 220V

Dimensions: 19" rack system, 1 HU
(W x D x H) 48,3 x 30 x 4,4cm

Weight: 4kg

We reserve the right to alter specifications without notice!