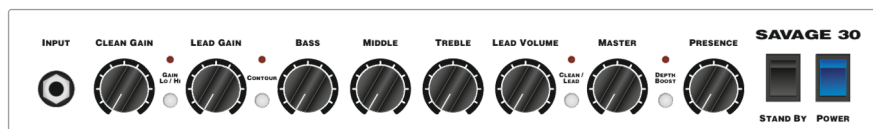




E611
SAVAGE 30
Operator's Manual



Input

Input (conventional 6.3 mm / ¼" TS) unbalanced input. Plug your guitar in here using a shielded instrument cable.

Clean Gain

Gain control for the Clean channel.

Gain Lo/Hi switch

Pressing this button ups the gain factor, thereby increasing the amount of gain in both Clean and Lead Channels. The LED above this button lights up to indicate Gain Hi is active.

» This feature can be controlled via the ENGL Z4 Footswitch (optional accessory; conventional 6.3 mm / ¼" TRS dual Footswitch).

» This feature can be controlled via the Serial Amp Control (S.A.C.) Port using a compatible ENGL S.A.C. Footcontroller, such as the ENGL Z9 (optional accessory).

Lead Gain

Gain control for the Lead channel.

Contour switch

This voicing function works globally and affects both channels by boosting/cutting certain mid-range components of the signal when activated. The LED above the push button lights up to indicate that Contour is activated.

» This feature can be controlled via the Serial Amp Control (S.A.C.) Port using a compatible ENGL S.A.C. Footcontroller, such as the ENGL Z9 (optional accessory).

Bass

Bottom end voicing control of the preamp's passive EQ.

Middle

Mid-range voicing control of the preamp's passive EQ.

Treble

Upper range voicing control of the preamp's passive EQ.

Lead Volume

Volume control for the Lead channel (pre-FX Loop, influences the level of the FX-Send). Use this knob to dial in the desired balance of levels between the Lead and Clean channels.

Clean/Lead switch

Press this push button to toggle between the Clean and the Lead channel. The LED above this push button lights up to indicate that the Lead channel is engaged.

» This feature can be controlled via the ENGL Z4 Footswitch (optional accessory; conventional 6.3 mm / ¼" TRS dual Footswitch).

» This feature can be controlled via the Serial Amp Control (S.A.C.) Port using a compatible ENGL S.A.C. Footcontroller, such as the ENGL Z9 (optional accessory).

Master

Master volume knob, located post FX Loop. It controls the power amp output level.

Depth Boost switch

Push this push button to beef up the bottom end in the poweramp stage. The LED above the push button lights up to indicate the Depth Boost is activated.

» This feature can be controlled via the Serial Amp Control (S.A.C.) Port using a compatible ENGL S.A.C. Footcontroller, such as the ENGL Z9 (optional accessory).

Presence

This control defines the Treble response in the power amp stage.

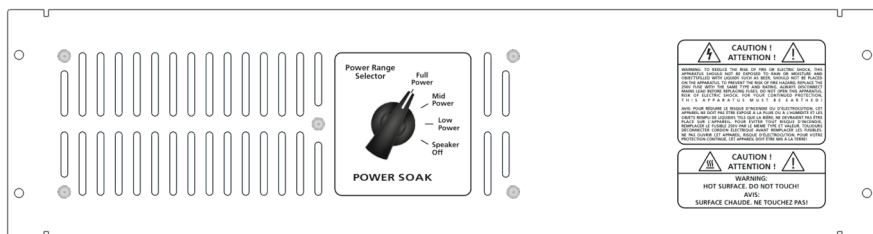
Stand By

Use this switch to use the Stand By mode when you take a longer break or for brief breaks, for instance when you are switching guitars. The amp's tubes stay nice and toasty, and the amplifier is ready to roll immediately when you switch it back to full power.

Power

Mains power on/off.

Please note: ensure that the Stand By switch is set to Stand By before you switch the amp on. Let the tubes heat up for about 30 seconds before you activate the power amp. This procedure spares the tubes.



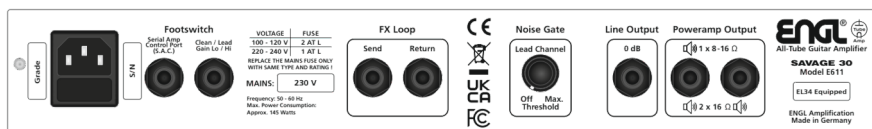
Power Range Selector

Use this switch to activate the Power Soak and select the desired power level.

- Full Power (approx. 30 Watts)
- Mid Power (approx. 5 Watts)
- Low Power (approx. 1 Watt)
- Speaker Off* (zero Watts)

*In this position no speaker load has to be connected to the Poweramp Output.

When activated, the Power Soak's resistors convert some or all of the power amp's output into heat. So, make sure air can circulate freely around the back of the amp!



Main Supply Connector (AC Power Inlet, IEC – C14 connector)

Plug the mains cord in here.

CAUTION! Make sure you use an intact mains line cord with a grounded plug! Before you power the amp up, ensure the voltage value (e.g. printed on the Type Label or alongside the mains port) is the same as the current of the local power supply or wall outlet. Please also heed the guidelines set forth in the separately included pamphlet, Instructions for the Prevention of Fire, Electrical Shock and Injury.

Mains Fuse Box

The rear chamber contains the mains fuse and the front chamber a spare fuse.

NOTE: Ensure replacement fuses bear identical ratings (refer to the technical data)!

CAUTION! Always make sure replacement fuses are of the same type and have the same ratings as the original fuse! Please refer to the technical data in the operator's manual and the fuse ratings shown on the type panel.

Footswitch: Serial Amp Control (S.A.C.) Port (conventional 6.3 mm / ¼" TRS)

The **S.A.C. Port** is intended exclusively for compatible ENGL S.A.C. Footcontrollers. At the time of publication, the ENGL Z9 (optional accessory) is the compatible S.A.C. Footcontroller for this port. Communication is handled via an ENGL proprietary serial data protocol, allowing various amplifier functions to be controlled remotely. Please refer to the S.A.C. assignment table in this manual to see which functions are available for remote control.

CAUTION: Connect only compatible ENGL S.A.C. Footcontrollers to this 6.3 mm / ¼" TRS jack. Conventional passive Footswitches or other switching devices are not compatible with this port and may damage the connected device and/or the amplifier's internal circuitry.

Footswitch: Clean / Lead, Gain Lo / Hi (conventional 6.3 mm / ¼" TRS)

Use this jack to connect the ENGL Z4 Footswitch (conventional Footswitch with two switching functions; 2 x off/on – Single Pole Single Throw or SPST for short).

Tip: switching between the Clean and the Lead channels

Ring: switching between Gain Lo and Gain Hi mode.

Default (no Footswitch connected): Clean Channel is activated, Gain Lo mode is active.

» As soon as a plug is inserted into this Footswitch jack, the S.A.C. Port is disabled and the corresponding front-panel push buttons for Clean / Lead and Gain Lo / Hi are deactivated.

FX Loop (Serial FX Loop)

In the signal path, the FX loop is located post preamp and before the power amp Master controls.

» This feature can be controlled via the Serial Amp Control (S.A.C.) Port using a compatible ENGL S.A.C. Footcontroller, such as the ENGL Z9 (optional accessory).

FX Loop Send

Connect the FX-Loop Send (output) to a signal processor's or an effect pedal's input/return jack using the shortest possible shielded instrument cable (conventional 6.3 mm / ¼" TS cable).

FX Loop Return

Connect the FX-Loop Return (input) to a signal processor's or an effect pedal's output/send jack using the shortest possible shielded instrument cable (conventional 6.3 mm / ¼" TS cable).

Noise Gate Threshold

With this control you can set the threshold of the Noise Gate. The further the knob is turned clockwise, the higher the threshold at which background noise is cut off. The Noise Gate can only be activated in the Lead channel. Use this knob to set a threshold value (noise level) at which the Noise Gate activates to suppress the signal. The further you twist the knob to the right, the higher the signal level at which the Noise Gate kicks in. If you set the knob to the 5 o'clock position, the Noise Gate reacts to extremely high noise levels, meaning that there is not much of a margin between the guitar signal and background noise.

» This feature can be controlled via the Serial Amp Control (S.A.C.) Port using a compatible ENGL S.A.C. Footcontroller, such as the ENGL Z9 (optional accessory).

Line Output – 0 dB

This Line Output port taps the power amp's output to provide a line out signal configured at a level of about 0 dB. The frequency response is identical to the power amp output signal. In other words, its frequency response is not compensated or corrected. You can feed this signal to another linear power amp. Another option is to patch it through an outboard filter to emulate a speaker, or for example into the **ENGL CABLOADER** (IR-Loader with an integrated microphone and poweramp simulation), and feed this externally processed signal to a recording device or PA system.

» **The Line Output – 0 dB is tapped directly from the Poweramp Output, which means that it is only active when the amp is not in Stand By mode. Make sure to set the Power Range Selector to Speaker Off when no speaker load is connected to the Poweramp Output.**

Poweramp Output

1. One 8-16 Ohm cabinet connected to the 8-16 Ohm jack.
2. Two 16 Ohm cabinets connected to the 16 Ohm jacks.

Important Note

We cannot stress enough the importance of proper impedance matching when connecting one or more cabinets to your amp. Impedance mismatching can damage the power amp!

Always check the connected cabinet's impedance to confirm it matches the amp's output impedance!

Z9 Footcontroller S.A.C. assignment table for Function 1 and Function 2:

Button	Functions	Setup	Indication	S.A.C.
Function 1	Master Volume Boost	1: Channel 1	LED CH 1 lights up	F1-1
Function 1	none	1: Channel 2	LED CH 2 lights up	F1-2
Function 1	FX Loop off/on	1: Channel 3	LED CH 3 lights up	F1-3
Function 1	Depth Boost	1: Channel 4	LED CH 4 lights up	F1-4
Function 1	none	1: Channel 1	LED CH 1 flashes	F1-5
Function 1	Contour	1: Channel 2	LED CH 2 flashes	F1-6
Function 1	none	1: Channel 3	LED CH 3 flashes	F1-7
Function 1	none	1: Channel 4	LED CH 4 flashes	F1-8
Function 2	none	2: Channel 1	LED CH 1 lights up	F2-1
Function 2	none	2: Channel 2	LED CH 2 lights up	F2-2
Function 2	none	2: Channel 3	LED CH 3 lights up	F2-3
Function 2	Depth Boost	2: Channel 4	LED CH 4 lights up	F2-4
Function 2	none	2: Channel 1	LED CH 1 flashes	F2-5
Function 2	Contour	2: Channel 2	LED CH 2 flashes	F2-6
Function 2	FX Loop on/off	2: Channel 3	LED CH 3 flashes	F2-7
Function 2	none	2: Channel 4	LED CH 4 flashes	F2-8

Comments:

1st column – Assignment:

Indicates which Function button of the Z9 Footcontroller can be assigned to the sound-shaping or special function listed in column 2.

2nd column – Function:

Lists the amplifier's sound-shaping or special functions that can be controlled via the Z9 Footcontroller.

3rd column – Setup:

Describes the required configuration on the Z9 Footcontroller for controlling the corresponding function on the amplifier. The first digit indicates the Function setup routine: 1: stands for Function 1 setup and 2: stands for Function 2 setup. Channel 1 to Channel 4 indicates the corresponding Channel button on the Z9 Footcontroller used to select the desired setting.

4th column – Display:

Indicates the currently saved configuration or the newly selected configuration.

5th column – S.A.C.:

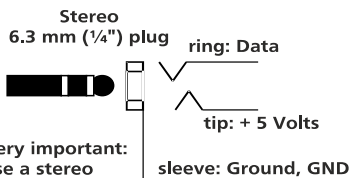
This designation is used in the Z9 Footcontroller operator's manual to describe the respective S.A.C. configuration.

For a detailed description of the functionality, please refer to the Z9 Footcontroller operator's manual.

WIRING OF PRINCIPAL CONNECTORS

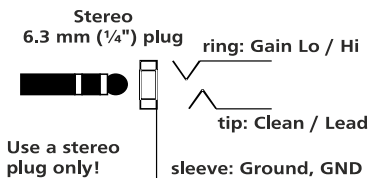
Z4 Footswitch (Dual Footswitch) and Z9 Footcontroller (Serial Amp Control Port) cable assignment

Serial Amp Control Port

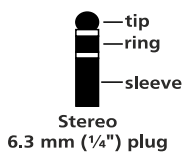


Very important:
use a stereo
cable only!
Connect a S.A.C.
Footcontroller only!

Dual Footswitch



Use a stereo
plug only!



TECHNICAL DATA

Output power	approx. 30 Watts
Input sensitivity	
Input:	from -20 dB to approx. 0 dB max.
FX Return	from -20 dB to approx. 0 dB max.
Output level	
FX Send	from -20 dB to approx. 0 dB max.
Line Out	approx. 0 dB / 1 k Ω at nominal power output
Power consumption	approx. 145 Watts (165) max.
Fuses	
220 / 230 / 240 supply voltage	1 AT L (T: slow-blow)
100 / 115 / 120 supply voltage	2 AT L (T: slow-blow)
Power Tube Fuses	2 x 0.2 AT L (T: slow-blow)
Important: Replace these with fuses with the same type and rating only!	
Tubes	
V1	ENGL ECC83 First Quality (FQ)
V2 / V3 / V4	ENGL ECC83 Selected
V5 / V6	ENGL EL34 Hand-Matched Duet
Dimensions	42cm x 23cm x 23cm
Weight	approx. 11 kg

A FEW COMMENTS ON TUBE AMPLIFIERS

Be sure to read this section before powering the amp up!

This amp's input is extremely sensitive due to its high gain factor. In combination with the inherent microphonic properties of tubes, certain settings can cause powerful feedback through the speakers — even without a guitar being connected!

This occurs primarily when the Crunch and Lead channels are activated, meaning all channels whose preamp section can be easily overdriven, and the following settings are dialed in:

- Gain and/or Lead Gain knob past the 12 o'clock position
- Treble knob past the 12 o'clock position
- Crunch/Lead Volume knob past the 12 o'clock position
- Presence knob past the 12 o'clock position

Avoid setting the aforementioned knobs to extreme positions, especially combinations in which several of these controls are set past the 12 o'clock position. This type of configuration can cause considerable feedback, which may severely damage your hearing and destroy speakers.

If you set the Volume or Master knobs to higher volume levels, always make sure to reduce the amplification level and prevent feedback by turning down the Lead channel Gain knobs. The same applies to the Treble and Presence settings of these channels.

Before powering the amp up, take a moment to check the control panel and make sure that these knobs are not set to any configuration similar to the one described above!

A FEW WORDS ON BACKGROUND NOISE IN TUBE AMPLIFIERS

You may hear slight background noise right after powering up a tube amp or while operating it. This may appear as intermittent hissing, sizzling, crackling, or popping noises. Caused by tubes, this type of noise may even occur with brand-new tubes.

The noise is particularly noticeable in high-gain Lead channels. This is because these channels provide a very high gain factor, amplifying noise along with the usable guitar signal.

It is not necessary to swap tubes if you encounter this kind of noise every now and then. However, you may consider replacing the tubes if the noise becomes constant.

TROUBLESHOOTING

The output volume fluctuates or drops:

- Take all effects devices out of the signal chain, both in front of the preamp and in the FX Loop.
- Check all cables used.
- Check the guitar used and test the amp with another guitar.
- Use a short patch cable or guitar cable to connect the FX Send directly to the FX Return jack.
- Try operating the amp's preamp with a functional external power amp to rule out a problem with the internal preamp. To do this, connect the FX Send to the input of the external power amp.
- Try operating the amp's power amp with a functional external preamp to rule out a problem with the internal power amp. To do this, connect the external preamp to the FX Return.

The amp does not provide a sufficient output signal / little or no sound is coming from the speaker:

- Is at least one speaker connected to one of the speaker outputs?
- Is the power amp activated? The Stand By switch must be set to ON.
- Are all cables, such as guitar, effects and speaker cables, connected properly and functional?
- Take all effects out of the signal chain, both in front of the preamp and in the FX Loop.
- Is the Noise Gate activated? This is only relevant if the amplifier is equipped with a Noise Gate.
- Are the Master, Gain and Volume knobs set to a value higher than 0? If any of these knobs is set to zero, no signal is routed to the amp's output.

Hum is coming from the speaker:

- The amp may not be properly connected to mains ground or may not be grounded at all. Please have this checked by a qualified technician.
- Cables connected to the input or the FX Loop may not be properly shielded. Replace them with other cables to check whether this is the case.
- The amp or speaker cables may be picking up interference from strong magnetic fields, such as nearby power transformers or electric motors. Reposition the amp and the connected cables.
- The amp or speaker cables may be picking up radio signals, for example from active mobile phones or powerful local transmitting stations nearby. Switch off mobile phones while troubleshooting noise problems.

Please contact us via e-mail at service@engl-amps.com before shipping a product to us.

The more precise the error description is, the better our service team can help you. Ideally, please also send us a photo of the control settings and a short video recording of the problem. A detailed description helps us isolate and locate the problem faster.

- Which channels are affected?
- Which functions are activated or deactivated?
- At which knob settings does the problem occur?
- Are you using effects before the input or in the FX Loop?
- Does the problem also occur in Stand By mode? This is particularly relevant for noise issues.
- Which equipment was used in detail?

Packaging

Packaging

Please make sure to use suitable packaging to ensure undamaged transport. Use the original packaging whenever possible. To provide its full protective function, the outer packaging, the device and the inner packaging must form a single unit. This is the only way to ensure that the device survives transport without damage.

Please check used packaging for tears, signs of compression, pressure marks, perforations or other damage before use. Please do not use damaged packaging.

Please note that a flight case is not suitable shipping packaging and therefore cannot be accepted. Please never pack devices together, e.g. a Z4 Footswitch and an E633 Head, but ship them separately.

As it is our responsibility to use suitable shipping packaging for return shipping, we reserve the right to use new original packaging if necessary and to invoice it.

Original Packaging

Our original packaging is made of particularly strong cardboard material and is equipped with special, custom-made molded foam parts for each model. This packaging can be used several times - **please keep it in a safe place!**

Whilst the information contained herein is correct at the time of publication, ENGL AMPLIFICATION reserves the right to alter specifications without prior notice due to its policy of continuous improvement and development.

ENGL®
www.engl-amps.com