

# Edition Tube

## 25<sup>th</sup> Anniversary

Manual 1.0



english

deutsch

français

italiano

español

**Hughes & Kettner**  
TECHNOLOGY OF TONE

## Congratulations and thank you for choosing the Hughes & Kettner Edition Tube amp

The Edition Tube delivers mighty all-tube tone in Hughes & Kettner's handy Edition format. Sporting two channels, it mates simple functional elegance to bodacious tube tone, giving you an easy-to-use, portable combo that looks and sounds great.

The Edition Tube's Clean channel delivers a remarkably varied spectrum of vintage sounds from squeaky-clean yet warm skank to rough-and-ready blues-approved bite, and all points in between. Taking up where Clean leaves off, the Lead channel ups the dirt factor, giving you the full bandwidth, from a throaty growl to creamy, searing rock lead tone.

Two EL84 tubes toil away in the Edition Tube's engine room - they're responsible for the amp's striking sound. These power amp tubes are known and cherished by tube freaks for a unique property - they begin saturating at medium volume levels, and squeezing the signal with ever so sweet compression. And that's why the Edition Tube is better suited for situations that call for moderate volume levels.

Living up to Hughes & Kettner's rep for building ultra-responsive tone generating machines, the preamp reacts very dynamically to your touch, and packs plenty of punch when you attack those strings hard. With a back that is almost fully closed, the cabinet provides additional bottom end oomph. Twenty genuine tube-driven watts and the Celestion® G12T 100 loudspeaker do their part to give the Edition Tube the kind of sonic wallop you need to be heard loud and clear at rehearsals and club gigs. Rounding out the Edition Tube's complement of features are a variable spring reverb, an effects loop, and a connector for external cabinets. But then that shouldn't come as a huge surprise because any Hughes & Kettner amp boasting the "EDITION" mark of distinction promises a touch of class.

We're wishing you lots of fun with the tone of your Edition Tube!

## Before powering up

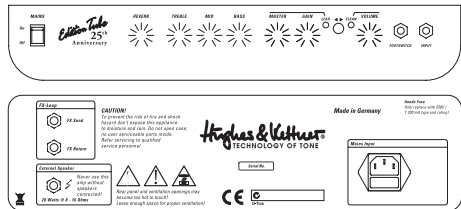
- Check that your local wall socket voltage and the amp's AC power rating are identical before you plug the amp in.
- Ensure air can circulate around your amp's ventilation ducts.

- Make sure the amp sits securely on a stable platform where it is not exposed to mechanical shocks or temperature extremes which may damage the amp or endanger the safety of bystanders.
- Hughes & Kettner is not liable for damages due to improper use

## Table of Contents

- 1.0 Jacks and Controls
- 2.0 Standard Setup/Cable Connections
- 3.0 Operation
- 3.1 Selecting Sounds
- 3.2 Using Signal Processors
- 4.0 Replacing Tubes, Service and Maintenance
- 5.0 Troubleshooting
- 6.0 Technical Specification

## 1.0 Jacks and Controls



**INPUT:** Plug your guitar into this jack.

**FOOTSWITCH:** Plug a footswitch (e.g. the Hughes & Kettner FS-1) into this jack when you want to change channels remotely. If you choose to use a footswitch, make sure that the CHANNEL SELECT switch is set to the CLEAN channel (yellow LED lights up).

**VOLUME:** This knob controls the CLEAN channel's volume and saturation levels. Depending on your guitar's output level, you can dial in fat, crunchy sounds at higher VOLUME settings.

**YELLOW CHANNEL SELECT LED:** Lights up to indicate the CLEAN channel is active.

**CHANNEL SELECT BUTTON:** This selector lets you change channels by pushing the button by hand as opposed to stomping on a footswitch, which is also an option.

**RED CHANNEL SELECT LED:** This one illuminates up to indicate the LEAD channel is active.

**GAIN:** Rotate this knob to determine the amount of distortion in the LEAD channel.

**MASTER:** Dial this knob to control the LEAD channel's volume level.

**EQ SECTION:** The Bass, Mid and Treble knobs affect both channels. Mid and Treble influence one another, an attribute considered normal and desirable in a tube amp. Boosting treble decreases midrange honk and vice versa: jacking up the mids cuts back on the high-end shimmer.

**REVERB:** Controls the intensity of the on-board reverb effect.

**POWER:** The Edition Tube's mains power switch.

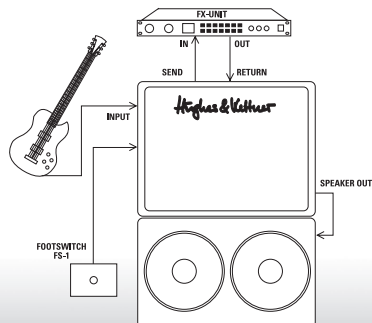
**MAINS IN:** Connect the included Euro-norm mains cord to this socket. Ensure the amp's voltage rating matches your local AC power rating before you plug the cord into the wall outlet.

**EXTERNAL SPEAKER:** Use this jack to connect external speaker enclosures with an overall impedance ranging from 8 to 16 ohms (an 8-ohm cabinet, for example, would work nicely). The internal loudspeaker remains in operation.

**RETURN:** Connect this jack to the output of your signal processor.

**SEND:** Connect this jack to the input of your signal processor.

## 2.0 Standard Setup/ Cable Connections



## 3.0 Operation

### 3.1 Selecting Sounds

When you're ready to tweak the settings for both of the fundamental sounds that the Edition Tube has to offer, we recommend you proceed as follows:

- Dial in all your sound settings with the guitar's volume knob turned all the way up so that it give the amp the highest possible level to work with.
- First concentrate on tuning the CLEAN channel VOLUME knob to dial in the desired volume level and amount of overdrive.
- Once you're satisfied with that sound, activate the LEAD channel and use the GAIN knob to shape the second fundamental sound to suit your taste.
- Now adjust the LEAD MASTER to dial in the desired balance of levels between the LEAD and CLEAN channels.

### 3.2 Using Signal Processors

The Edition Tube is equipped with a serial effects loop. This means that the entire preamp signal is routed to the FX device and processed there. For this reason, use only high-quality signal processors that do not color the signal unnecessarily, add undue noise, or impair its sound quality.

Connecting effect devices:

- Connect the SEND jack to the processor's input, and the RETURN jack to the processor's output.
- To avoid noise, signal loss, and signals from being cut off, use high-quality patch cords only.
- Make sure the processor is not distorting the signal. Check the processor's level meter and use its input and output controls to dial in a suitable level.
- Unless you're going for bizarre lo-fi effects, distortion devices are not designed for use in an FX loop. As a rule of thumb, any kind of device that compresses the signal should be connected first in the signal chain. Depending on the type of effect you want to achieve, you may want to connect a compressor to the amp's input.
- If you are using several processors or stomp boxes, ensure you connect them in the proper sequence.

Volume pedals, wah-wahs and the like evoke a slightly different sound and elicit a different response when you plug them into the Edition Tube's front panel input rather than the effects loop. Both can sound hip, so which option you choose is a matter of personal preference.

## 4.0 Replacing Tubes, Service and Preventive Maintenance

Your Edition Tube features factory-equipped EL84 and 12AX7A tubes. They are first burned in and then checked for their electrical and mechanical properties (microphonics), selected and matched, and then given a final audio and response test once they have been installed in a Edition Tube. One of the most important steps in the testing process is power tube matching, i.e. selecting and pairing tubes with identical characteristics.

### When should you replace tubes?

The tubes in your Edition Tube are of exceptionally high quality and will last extremely long. If you do encounter a problem, first check whether one of the following situations apply:

- Is the defect a problem caused by a faulty or worn-out tube, or is there actually a peripheral problem, for instance a defective speaker cable that caused damage to the tube? If this is the case, unless you correct the defect first, the problem will recur once you have installed a new tube.
- Did the AC power supply fluctuate during operation? Whereas digital equipment often malfunctions when the power supply dips below a minimum value, all-tube amps tend to malfunction when the power level rises above a certain value. Generators and faulty high-power circuits often cause these power fluctuations.
- Did a fuse trip although there was no plausible cause? Aging fuses, particle ionization in the tube or spark-over due to power spikes may cause this type of problem. In this case, replacing a tube will not solve the problem.
- Old tubes begin to show signs of wear after they have been in operation for a very long time: increased microphonics and noise, treble loss, weak power output, muddy sound, etc. are all indicators of pending tube failure. Power amp tubes wear out faster than preamp tubes. If you encounter these problems, replace the tubes. Not only do old tubes sound bad, they also have a tendency to fail altogether.

We recommend you refrain from exchanging tubes solely for sound experimentation purposes. Improper use runs the risk of damaging your amp and will not be covered under warranty. Besides, we tested every conceivable tube option and installed the tube types that deliver the best possible performance.

**Keep the following in mind when you are ready to replace tubes:**

- We recommend only qualified service personnel replace tubes.
- Before removing the chassis, ensure the mains cord is unplugged from the wall socket! Wait at least 2 minutes for the amp to power down.
- If you are replacing a power amp tube, ensure the replacement tube bears identical specs.
- Use only matched pairs of power amp tubes.
- If you install a matched pair of tubes bearing precisely the same specs as the original tubes, the amp does not have to be re-biased. Conversely, if the specs are not identical, the amp must be biased. Biasing is a complex procedure requiring special tools and should only be executed by a qualified amp technician.

### How can you extend the life of your tubes?

- Never operate the Edition Tube without a proper load (speaker) connected to the output. Switch the amp off and let the tubes cool down before transport. A quality flight case is a good investment and is only slightly more expensive than a complete set of tubes.
- Proper bias and trim are essential. If you find the tubes need to be replaced too often, consult a qualified technician.

All other Edition Tube components do not require maintenance. Use a slightly dampened cloth for all metal parts and the exterior surfaces. Avoid exposure to mechanical shocks, extreme heat, dust and moisture. Ensure the cooling vents are not obstructed during operation.

**Here are a few more basic rules that will extend the service life of your amp enormously if you follow them:**

- Make sure all peripheral devices and connecting cables are in a state of good repair! - Ensure plenty of air can circulate around the amp's ventilation slots at all times - your Edition Tube's life depends on it.- Definitely avoid exposure to mechanical shocks and extreme heat, dust and particularly moisture.
- Be very careful about the kind of peripheral devices you connect to your amp and always check out their specs before you plug them in. Never connect speaker cabinets with an impedance (ohm) rating lower than the Edition Tube is designed to handle. Under no circumstances should you connect devices with high output signal levels (e.g. power amps) to your amp's input.

- Be sure the AC power source delivers the current that your amp is designed to handle before you plug it in. When in doubt about the local rating, ask the venue's sound technician or a stage hand.
- Refrain from DIY repairs! To be on the safe side, you should also have a qualified technician replace internal fuses.

## 5.0 Troubleshooting

### The Edition Tube is not getting any power:

- Check the mains cable to see if it is connected properly.
- The mains fuse may be defective. Replace the fuse with another identical fuse. If this fuse also trips, consult your Hughes & Kettner dealer.

### The Edition Tube is connected properly, but no sound is audible:

- One or several GAIN and MASTER controls may be turned all the way down. Dial in a higher setting.
- A short circuit in the speaker signal chain may have tripped an internal fuse, or one of the power tubes is defective. Replace the speaker cable and have a qualified service technician replace the fuse/tube (identical specifications are a must). Please read Section 4.0 on how to replace tubes correctly.

### The sound is slightly distorted and you cannot get a truly clean tone:

- The input section is being overdriven. Depending on the type of pickups in your guitar, this effect is very pronounced or may not be audible at all. If you don't want this slight distortion (although many players prefer a little dirt in their sound), reduce the volume of your guitar or volume pedal, turn the screws on the frame of your pickups so the distance between the strings and pickups is greater, or try a different combination of pickups.
- If the distortion has an annoying gritty edge to it, there may be some type of fault due to improper use of a signal circuit, for instance a speaker output connected to the Edition Tube's input. In this case, consult your Hughes & Kettner dealer.

### You have connected an FX processor to the SEND jack and the signal is totally distorted, even when you have dialed in a clean sound:

- The LINE OUT signal is overloading the input of the FX processor. Reduce the processor's input sensitivity ("INPUT" or "GAIN").

### You have connected an FX processor to the SEND jack of the Edition Tube and the signal's volume level is way too low:

- The FX processor's output level is set incorrectly. Turn it up.

## 6.0 Technical Specification

Input:	-20 dBV/1 MOhm
FX-Return:	0 dBV/47 kOhms
FX-Send:	6 dBV/ 100 Ohms
Power amp section:	EL84 tube amp
Output Power:	20 W RMS (into 8 Ohms)
Lautsprecher:	Celestion® G12T-100, 8 Ohm
Voltage:	220-230 V 120 V 100 V
Max. power-consumption:	100 W
Mains Fuse:	T500 mA (220-230 V modell) T1A (120 V modell) T1A (100 V modell)
Anode Fuse:	T200 mA
Secondary Fuses:	T160 mA (low voltage)
Ambient temperature range in operation:	0°C to +35°C
Dimensions (WxHxD):	556 x 480 x 276 mm
Weight:	18,4 kg (approx.)

This is to certify that

Hughes & Kettner

## Edition Tube 25<sup>th</sup> Anniversary

complies with the provisions of the Directive of the Council of the European Communities on the approximation of the laws of the Member States relating to electromagnetic compatibility according to EMC directive 2004/108/EC and low voltage directive 2006/95/EC.

This declaration of conformity of the European Communities is the result of an examination carried out by the Quality Assurance Department of STAMER GmbH in accordance with European Standards EN61000-6-1, EN61000-6-2, and EN 60065 for low voltage.



Stamer Musikanlagen GmbH  
Magdeburger Str. 8  
66606 St.Wendel

Lothar Stamer Dipl.Ing.  
Managing Director  
St.Wendel, 26th of January 2009

A handwritten signature in black ink, appearing to read "L. Stamer".

Für das folgend bezeichnete Erzeugnis

Hughes & Kettner

## Edition Tube 25<sup>th</sup> Anniversary

wird hiermit bestätigt, dass es den wesentlichen Schutzerfordernungen entspricht, die in der Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten über die elektromagnetische Verträglichkeit 2004/108/EG und der Niederspannungsrichtlinie 2006/95/EG festgelegt sind.

Diese Erklärung gilt für alle Exemplare und bestätigt die Ergebnisse der Messungen, die durch die Qualitätssicherung der Fa. STAMER Musikanlagen GmbH durchgeführt wurden. Zur Beurteilung des Erzeugnisses hinsichtlich elektromagnetischer Verträglichkeit wurden folgende Normen herangezogen: EN61000-6-1,

EN61000-6-2.  
Zur Beurteilung der Einhaltung der Niederspannungsrichtlinie wurde folgende Norm herangezogen: EN 60065



Diese Erklärung wird verantwortlich für den Hersteller  
Stamer Musikanlagen GmbH  
Magdeburger Str. 8  
66606 St.Wendel

abgegeben durch  
Lothar Stamer Dipl.Ing.  
Geschäftsführer  
St.Wendel, 26. Januar 2009

A handwritten signature in black ink, identical to the one on the left page.

Hughes & Kettner  
Wendelinuspark  
Tritschlerstr. 3  
66606 St. Wendel, Germany  
Tel: +49 (0) 68 51 - 905 0  
Fax: +49 (0) 68 51 - 905 103

International Inquiries:  
Fax: +49 - 68 51 - 905 200  
hkinternational@hughes-and-kettner.com

[www.hughes-and-kettner.com](http://www.hughes-and-kettner.com)

Copyright 2009 by Music & Sales GmbH  
Subject to change without notice

