

FredAmp
Custom Amplification

Fabrication d'amplis, préamplis, effets guitare et basse.

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FAC Tube Hp Simulation – Manuel d'utilisation



1: Input: Connect here your end-of-chain effect or preamp,

2: Headphone out: USE ONLY A STEREO JACK (TRS)

3: Ground Lift Switch: If needed, deletes a possible ground loop. The ground is disconnected in High position.

4: Output: Connect here your delay / reverb or the input of a mixing console. The output is buffered but it is advisable to use a DI for lengths greater than 10m.

5: Small screw for connecting a wire to ground for audio chain. This connection can be useful particularly when headphones are used, because in this situation it happens that the entire chain has no ground connection. (most of power transformers do not connect their output to ground, this connection to ground is usually made by the amp or sono system).

6: Output Level: Controls the overall output level and the headphone output.

7: Graphic Equalizer 5 bands +/- 12db. Neutral setting (0) when at to the center position.

8: Power Jack 15VDC 400mA minimum, 5.5 x 2.1 + in the center. Use only the provided power supply or a compatible model provided by the manufacturer.

9: Switch Bypass: Bypasses the FCC. If FAC is operating, the LED lights.

10: Input Gain: adjusts the sensitivity and adds a bit of his body.

11: 3 Switches Color: used alone or combined:

- Each switch after his contribution on the pitch,
- If all switches are OFF; the system is MUTE (no sound output),
- If all the switches are ON; low frequencies are favored.

These settings allow you to quickly sculpt the sound according to the acoustic environment. Once these keys positioned for optimal rendering, equalization refines more accurately.



12 : Electronic tube : 12AX7 WB

Getting started

System installation:

Before applying power:

- Your entire system cables,
- Connect all power,
- Lower the level of the FAC (6 Level) 0,
- Connect the power supply to the FCC.

Only after this preparatory phase, you can power your PA equipment.

If you do not follow this procedure, a big "cloc" the sound with rsique of degradation or destruction of HP.

start:

Like any device using electronic tubes, wait heating system. This period is about 2 min.

usage:

Set the EQ center position (12h) and the gain.

Increase **Level** $\frac{1}{4}$ of its travel and activate the preamp located upstream in the chain by checking the (s) control (s) output level (ON / Bypass).

Note that it is useless to want to saturate the entrance of the FAC. It is designed not to bend or very little.

For FredAmp preamp users, the master level must be roughly between 11 and 12, the switch line / guitar Guitar preference, especially when there are other effects connected to the output of the preamp.

Then adjust the input gain, select 1/2/3 **switches color**, I recommend to put only 1 in service to start.

Adjust your **EQ** to taste.

Once done, mount the volume output (**Level**) to have a correct level mixer input without making saturate.

If you connect an effect delay / reverb on output of the **FAC** to get stereo, it is

important to not push too high the **Level** at the risk of saturating the input delay / reverb.

The defined response curve is that of a 4 x 10 inches baffle, but thanks to the **EQ** can travel several widely universe. The idea is not to copy a 12 x 4 or a 1 x 12, etc but the system can sculpt the sound of numerous combinations, and is best judged by your ears.

FredAmp Fac setting

I give you here my basic setting that can be a good first step to find yours. Note that the final result will also depend of associated equipment.



FredAmp Setting

Characteristics

Size : 190 x 120 x 37 mm

Power supply : 15vdc 400mA mini + at center, 5.5 x 2.1 mm

Tube : 12AX7WB – This model was chosen for its characteristics FredAmp particularly suited to the objective sought. Another tube model will give another sound result.

Headphone output jack 6.35 TRS (stereo imperative).

Input impedance: 1 Mégohm.

Output impedance: 100 kOhm.

Graphic Equalizer: 5 Band +/- 12db - 0 center position.

Simulation: cabinet 4 x 10 inches.

And this is the end, I will not hold you leg 3:00
It's up to you.
Thank you.

Fred

Rock N Roll

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