

GUITAR
TUBE VALVE
AMPLIFIER

Clan

VINTAGE 35 HEAD
2C-S-D

USER MANUAL



TUBES VALVES AMPLIFIER

Thanks for choosing *Clan* amplifier

CLAN born in 2010, from the collaboration between Claudio Nessi and Andrea Ugonati. by the experience of electronics engineer Claudio, graduate when the tube technology was widespread, and by the experience of expert craftsman Andrea, who focused his jobs on the furnishings, born this second model VINTAGE 35 HEAD 2C-S-D, completed with the correspondent cabinet.

The building of this product follow the EU directives and all the improvements adopted by the best manufacturer in the past years.

The main features of this header, like the point-to-point wire of circuit board, the high grade materials, the revision of the transformers calculation and the defined and suitable style for every kind of musician, make VINTAGE 35 HEAD 2C-S-D a unique and refined hand-crafted product, created for endure forever and for satisfy the most exigent musician.

WARNING

Preserve this manual, it contains valuable technical and safety information. Please read this manual as the information may enhance the sound and performance of your amplifier. The product is absolutely handmade, and can be found acoustic differences. This is the best guarantee of a true handmade product.

USER MANUAL

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TECHNICAL SPECIFICATIONS

MODEL	<i>Vintage 35 Head 2C-S-D</i>
POWER OUTPUT	<i>35W</i>
CHANNELS	<i>2 (1 clean, 1 dirty)</i>
POWER SUPPLY*	<i>110V - 220V C.A. 50/60Hz</i>
ABSORBED POWER	<i>170W</i>
HT FUSES	<i>Delayed 3x20 3,15 (110V) - 1,6 (220V)</i>
DIMENSIONS	<i>49x26x24cm</i>
WEIGHT	<i>19kg</i>

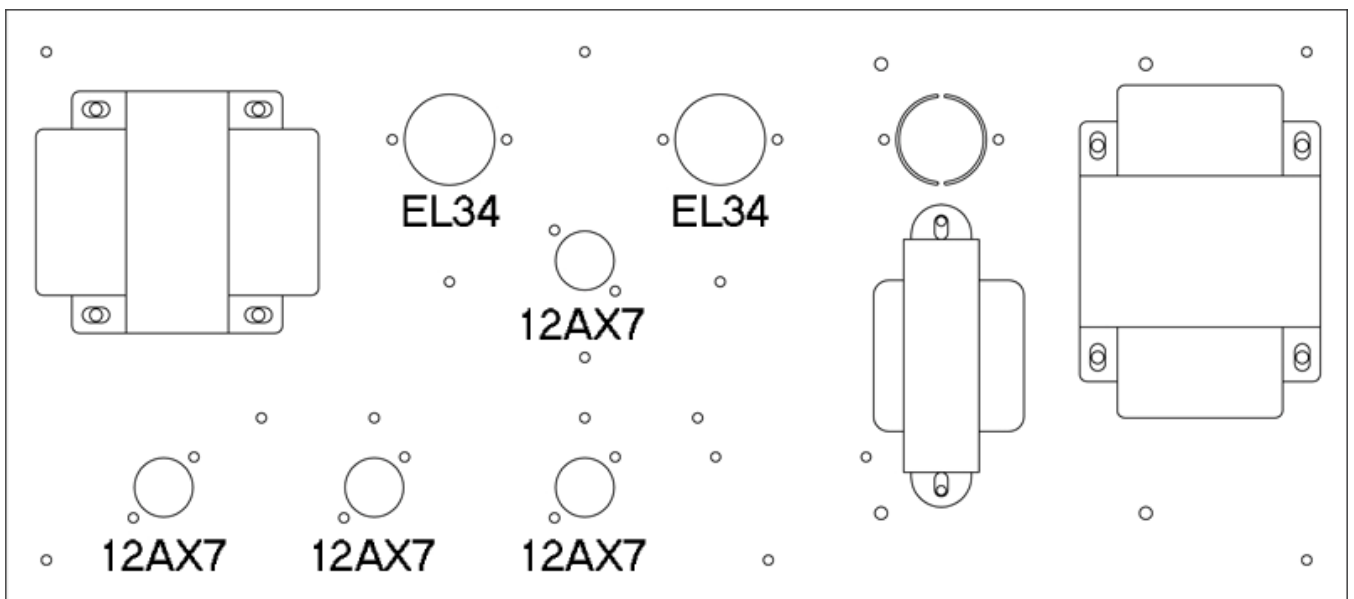
* The apparatus is given with electrical connection of 220V C.A.
For change in voltage of 110V C.A. contact a specialized center.
For more information contact CLAN center.

COMPONENTS

The apparatus was assembled with the most advanced technologies.
The components were selected from a product range, in respect to the RoHS directive.
Each part which compose the amplifier CLAN is handcrafted in Italy and it is set up by the following tube valves:

- **POWER TUBES** n°2 EL34 Pentode of JJ Electronic
- **PREAMPLIFYNG TUBES** n°3 12AX7 Double Triode of JJ Electronic
- **CONTROL TUBE** n°1 12AX7 Double Triode of JJ Electronic

TUBES PLACEMENT IN THE CHASSIS



USE MODE

Connect the speaker jack (pag.7 n°7-8) making attention to connect it with the right impedante output (look the speaker output). Connect the power jack (pag.7 n°1) and the instrument jack (pag.6 n°1).

Ensure the amplifier is turned off before connecting the supply cable.

When powering up your amplifier, first switch to the 'Standby' (pag.6 n°16) and leave for two minutes before switching to the power (pag.6 n°15, this will maximise the life of your valves), so, switch on the header with the lowest volume master, by the apposite switch. It have to light on the master led. (pag.6 n°13).

Select the channels by header buttons (pag.6 n°6) or by footswitch.

The footswitch have to be connected to the rear panel input (pag. 7 n°3); this operation cut off the panel front buttons.

The turn on of every channel will be pointed out by the light on of the correspondent led (pag.6 n°3-7).

Adjust the tones and the volumes.

The channel 1 produce a clean sound, it will be regulate with a tweed moonlight control tone (pag.6 n°5), while the channel 2 is dirty, and its bass frequency (pag.6 n°9), middle frequency (pag.6 n°10) and treble frequency (pag.6 n°11) are adjustable by a 3 band parametric equalizer. This feature of channel 3 tone regulation characterized the sound with a new taste.

Every channel have a gain control (pag.6 n°4-8), for the adjustment of valves signal saturation. Every channel have a volume control (pag.6 n°4-12) for let the musician to play with the right sound mix.

The master volume (pag.6 n°14) is the control of the output signal.

Note: the channels volumes can be used as regulator of the output signal in send socket, the master volume can be used as regulator of the input signal in return socket.

The amplifier can be used with headphones, even without connected speaker, by the headphones insert in frontal panel (pag.6 n°2).

Make attention to the volume when headphones are used, it can damage the hearing and the amplifier.

WARNING! Switch on standby the amplifier before disconnect the instrument jack.

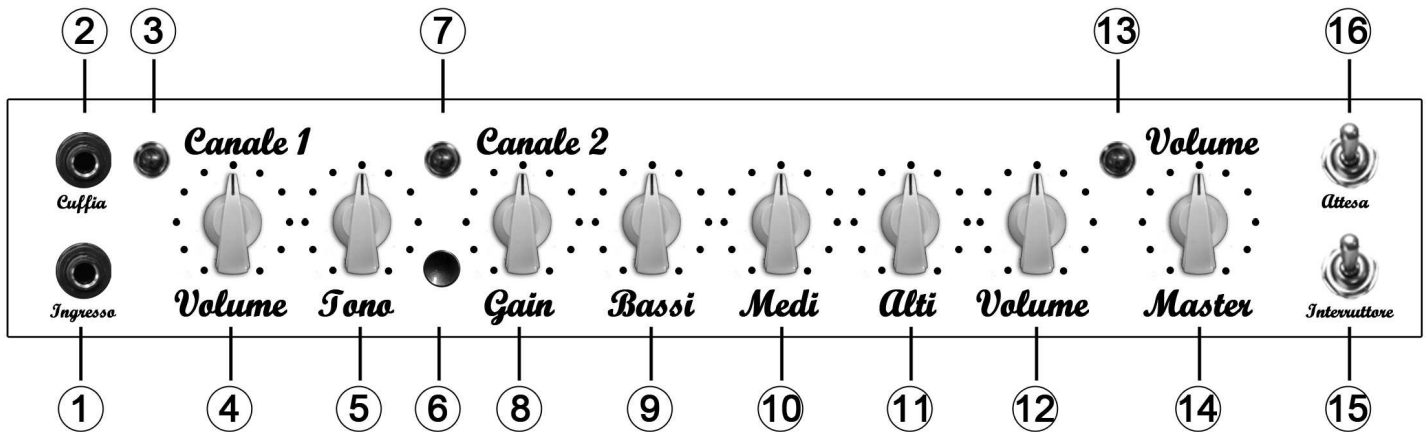
The amplifier uses a valve circuit with high impedance; considering that the instrument and his power cable can act as antenna, the apparatus may be affected by near radio frequency sources, like mobile phones, radio microphones, hf, vhf or uhf transmitter receivers ecc.

To prevent it, it's suggested to play without mobile phones and transmitter receivers nearby the apparatus.

IMPORTANT: Before the power on, connect the power supply cable to an earth grounded AC respectable in accordance with the voltage and frequency ratings listed under INPUT POWER on the rear panel of this product.

FEATURES

- Front Panel:



1. Signal input

Socket for the instrument.

2. Headphones Output

Connection socket for the headphones

3. Channel 1 Indicator

LED indicator; Channel 1 switched on.

4. Volume Channel 1

Channel 1 volume control. It work as Gain and Volume.

5. Tone Channel 2

Channel 1 Tone control.

6. Channel 2 switch

It enables change between Channel 1 and Channel 2.

7. Channel 2 indicator

LED indicator; Channel 2 switched on.

8. Channel 2 Gain

Channel 2 signal control gain.

9. Channel 2 Bass Control

Channel 2 bass regulator control.

10. Channel 2 Middle Regulator

Channel 2 middle regulator control.

11. Channel 2 Treble Control

Channel 2 treble regulator control.

12. Volume Channel 3

Channel 2 volume control.

13. Lighting Indicator

LED indicator; Amplifier switched on.

14. Master Volume

Main output volume control.

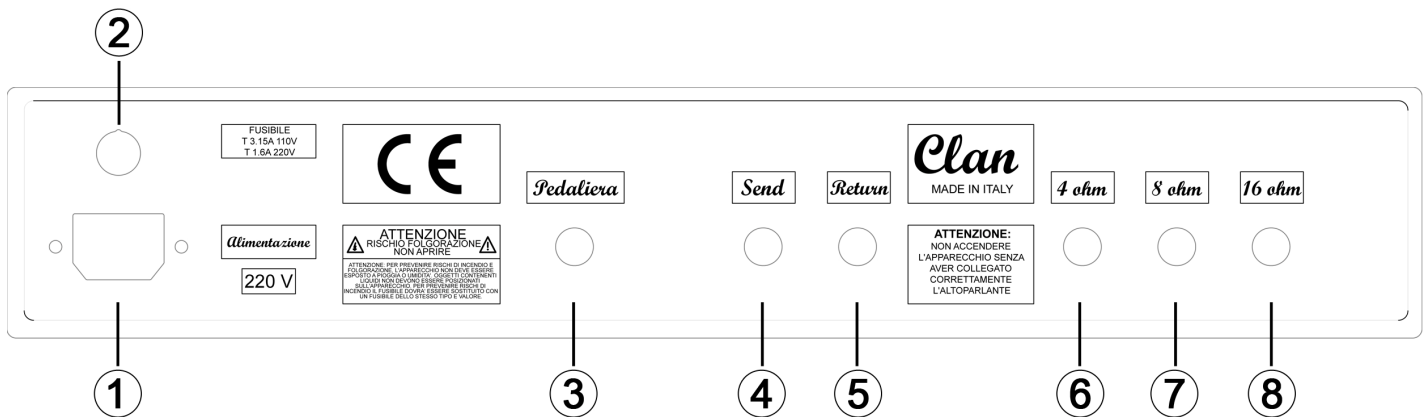
15. Switch

Switch for the power on and the power off.

16. Standby

Standby switch.

- Rear Panel:



1. Power input line

Connection power input.

2. Line fuse

In case of replacement follow the instructions label.

3. Channel Footswitch socket

It let the connection to the footswitch

4. Send; to the external effects.

Output socket for possible external effects.

5. Return; from the external effects.

Input socket from possible external effects.

6. Speaker output 4 ohm

Connection for speaker with 4 ohm impedance.

7. Speaker output 8 ohm

Connection for speaker with 8 ohm impedance.

8. Speaker output 16 ohm

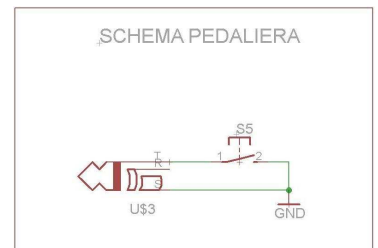
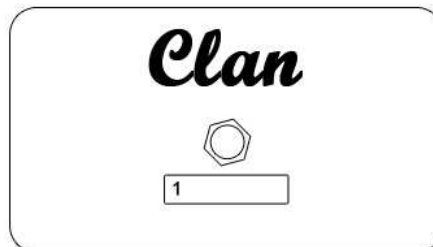
Connection for speaker with 16 ohm impedance.

- Footswitch

The header is equipped with the own footswitch, in case of replacement follow the schematic below.

1. Channel 1-2 switch

It let change between Channel 1 and Channel 2.



AMPLIFIER CLEANING:

Do not clean the apparatus with chemical products which can damage the product materials.

We suggest you to use neutral and suitable products, for example a dry and soft cloth is the right choose as often as not.

The periodic bias calibration is not necessary, because the electronic circuit is projected with autobias configuration.

When you see the tubes life is end or there are malfunction of tubes, they must be changed

at the discretion of the musician or of the assistance center.

For more information contact CLAN center.

WARNING!!!

We recommend to contact the manufacturer for the tube change and for every kind of reparation and maintenance operation for a correct use of the amplifier. Clan does not take charge of a possible apparatus malfunctions after operation by not authorized center.

In case of fault or malfunctions contact the seller or the CLAN center.

PRODUCT DISPOSAL

Although the product is projected for endure forever, if you though it away, follow this instructions:



This symbol on the product, on the user manual or on the packaging indicates that this product must be delivered to the applicable collection point for recycling electrical and electronic equipment.

By ensuring this product is disposed of properly, the consumer will help prevent potential negative consequences for human health and the environment.


This apparatus is marked in accordance with EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment.

This product should not be treated as household waste.

Consumers should dispose of the amplifier according to local regulations for disposal of waste.



WARNING! – Safety Instructions

- Never use the amplifier in damp or wet conditions. No objects filled with liquids should be placed on the apparatus.
- Refer all servicing to qualified service personnel including replacement of fuses and valves.
Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
- Do not obstruct ventilation grilles and always ensure free movement of air around the amplifier.
- Do not attempt to remove the amplifier chassis, there are no user serviceable parts.
- Do not switch the amplifier on without the loudspeaker connected.
- **The manufacturer decline every responsibility for damages to people, things and animal caused by an inappropriate use of the apparatus.**
- WARNING: This apparatus must be earthed, always connect the header to earth, to avoid electric shock and noises in the sound.
- Turn off the amplifier before connecting the supply cable.
- Never connect the guitar jack power-on mode; this operation can damage the amplifier and the speakers.
- Do not remove the rear panel to avoid burns and electric shock, also in power-off mode.
- Never disconnect the jack of the speaker in power-on mode, risk of electric shock. Switch off or put in standby mode the amplifier, so connect or disconnect the jack of the speaker.
- In case of cleaning with damp cloth, unplug the power supply cord before cleaning. Wait until the unit is completely dry before reconnecting it to power.
- CLAN amplifiers and loudspeaker systems are capable of producing very high sound pressure levels which may cause temporary or permanent hearing damage. Use care when setting and adjusting volume levels during use.
- Make attention to the volume when headphones are used, it can damage the hearing and the amplifier.
- The apparatus conformity is marked by the  logo on the back. The amplifier is build in accordance with the RoHS directive.
- **The manufacturer can change some product parts if he thinks it can improve the apparatus, without alter the safety and functional features of it.**

EMC / EMI AND CONFORMITY CERTIFICATE

EMC/EMI

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in residential installations. **This equipment can't generate radio frequency energy during his working.** If there are troubles on other reception apparatus, check if the problem is caused by the amplifier (just turning the equipment off and on) and in this case contact Clan center.

The amplifier has a valve circuit with high impedance, so it may be affected by interferences; anyway they can't be compromise his regular work.

If this equipment does cause interference to radio, television or telephone reception, try to increase the separation between the amplifier and the other apparatus, in regard that the instrument and his power cable can act as antenna. When the amplifier causes harmful troubles we suggest to contact a specialized technician.

CONFORMITY CERTIFICATE

Clan company declares that the guitar amplifier model **VINTAGE 35 HEAD 2C-S-D**, covered by this certificate and marked **CE**, meets the requirements of the following directives:

- **EN 60065** Safety requirements for mains operated (IEC 60065) electronic and related apparatus for household and similar general use
- **EN 55103-1** Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use.
Part 1: Emission.
- **EN 55103-2** Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use.
Part 2: Immunity.

With reference to regulations in following directives: 2006/95/EC, 89/336/EEC

IN ADDITION:

- The supply cable is fitted with a socket to EN 60320-C13 and a Schuko EEC 7 S.S.7 plug and bears, among others, the IMQ and VDE marks.
- The unit is not made of materials that are hazardous or classified as toxic or harmful pursuant to Italian laws currently in force.

Date and signature

Clan, Via Canaletta Superiore 21, 35048 Stanghella (PD) ITALY



CERTIFICATE OF ORIGINALITY

Every CLAN product offers the possibility to customize the design, so we certificate the following features:

MODEL
VINTAGE 35 HEAD 2C-S-D

SERIAL NUMBER

MANUFACTURING DATE

PURCHASER NAME AND ADDRESS

EXTERNAL COVERING(1):
MATERIAL: _____
COLOR: _____

FRONTAL COVERING(2):
MATERIAL: _____
COLOR: _____

DISPLAY(3):
MATERIAL: _____
COLOR: _____

KNOBS(4):
MATERIAL: _____
COLOR: _____

HANDLE(5):
MATERIAL: _____
COLOR: _____

BORDERS AND FINISHES(6):
MATERIAL: _____
COLOR: _____

OTHER PARTICULARS(7):

MANUFACTURER SIGNATURE



Clan

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