



POMPEII PE603

INFORMATIONS

POMPEII PE603 is an echo unit that aims to revive the emotions of the past but in a smaller pedal and with improved sonic performance. Tonewise the PE603 provides from classic slap-back to up to 740mS delay.

The swell mode creates a reverberation and is made possible through the use of all the heads simultaneously. Both wet & dry signal pass through a 12AU7 tube for the warmest sound with maximum transparency. A Fet cascade circuit is employed to mix gains and buffer the signal.

Thanks to great signal dynamics the **POMPEII PE603** can either be used in front of the amp or in the FX loop at instrument or line level without making any adjustments. A great deal of time was spent developing the feedback and tone circuits; as a result, the interaction between the feedback and tone controls can create the most beautiful of sounds.

To fully re-create the original magic, the **POMPEII PE603** is a “multi-head” echo, sharing the same first twelve switch positions as the early machines.

DESIGNED AND HAND-BUILT IN ITALY

DETAILS

The **SELECTOR** allow you to choose the Echo mode:

- **ECHO**: Classic 60's "slapback echo". One single repeat from the selected head (no feedback available);
- **REP**: Normal echo mode with selectable heads in feedback combinations;
- **SWELL**: The typical Old Italian reverb effect made with the use of all the heads simultaneously.

SWITCH has the task of choosing the heads and their combinations. The combinations are exactly the first 12 positions of the vintage PE603.

LENGTH OF SWELL and **TONE**: use the feedback control to create the tridimensional carpet of sound. The **TONE** control is strictly connected to the feedback and its task is to change the tonality of the oscillations.

MAGIC OF AGE: This simulates the mechanical aging of the glorious Old Italian Echo. Is a particular modulation that acts on the echo delay.

VOLUME ECHO: Is the parallel mix of the effect. It can be adjusted from 0% to 50% of the 50% dry signal. This analog mixer has been completely redesigned to keep pure performance in all conditions of use. (The Volume Echo does not work in the "wet-out" socket).

CICOGNANI ENGINEERING reserves the right to modify the technical characteristics and layout of the products at any time and without notice. This product is built to the rule of art and observes the technical requirements of the Directives Europee 89/366EEC.

A BIT OF ECHO HISTORY

The Italian Echo Units were produced by the famous Italian company in Milan since the 60s. They were soon appreciated all over the world and used by many artists including: Pink Floyd, Led Zeppelin, The Shadows, etc. In several years of my career, I have had the opportunity and the pleasure of repairing, and restoring many, so that I can understand the product well. The operating principle is based on the "filophone" magnetic wire recorder. This aluminum drum with some coils of magnetic wire wound around it and are positioned around it: demagnetizer, recording head, play heads. The historic echo models worked with 4 play heads; some models from the 70s were then expanded and equipped up to 6. This process required constant maintenance of cleaning and lubrication of the touch parts. A technical feature that saw assigning the longest time was the maximum space between the recording head and the most distant play in about 300ms.

Average delay times after many measurements:

First Tap = 74mS

Second tap = 148mS

Third tap = 222 mS

Fourth tap = 296mS

It should also be kept in mind that the motor speed in a European main power will be about 20% compared to that America.

COMBINATIONS PLAYBACK HEADS

The minimum values shown in the table are with "vari-speed" rotated in the 0% position, while the maximum values are 100%. The minimum values are with a 1% THD tolerance, while the maximum ones are 5%. However the synchronism of the heads remains very precise. The harmonic distortion ranges from 1% on the delay time 348mS to 5% in the maximum condition of 592mS. The heads are made with 4x PT2399. These well-used components offer great performance and above all can be found anywhere in the world. The different filters of each head are calibrated to recreate the same sound conditions as the old Italian echo. The feedback generated by **POMPEII PE603** returns in the style of the award-winning LTD model in order to favor those beautiful sound carpets often used in the past to compose the most beautiful arpeggios and psychedelic sounds.

	HEAD 1	HEAD 2	HEAD 3	HEAD 4
1	74 > 148mS			
2		148 > 296mS		
3			222 > 444mS	
4				296 > 592mS
5				
6				
7				
8				
9				
10				
11				
12				

SPECIAL FEATURES AND FUNCTIONS

The **POMPEII PE603** tube is a 12AU7/ECC82 and it guarantees a good duration and linearity. However, it can also be replaced with 12AX7/ECC83.

On the underside of the pedal it is easy to see a small window where a jumper is housed. Removing this switch activates the "**tail fx**" function. A careful adjustment of the "Length of Swell" will be necessary to ensure that in the moment of bypass the "tail" is not excessive.

For the best performance the working current is 12VDC/500mA.

It's also possible to use 9VDC/500mA, taking into consideration that the performance will suffer a very slight degradation.

Be very careful that the main power supply is correct.

If **POMPEII PE603** is under-powered it is possible to notice malfunctions on the selection of the heads and an increase in the background noise.

SPECIAL FEATURES AND FUNCTIONS

The "Wet/Out" is a buffer-equipped output that provides a low impedance signal (line output).

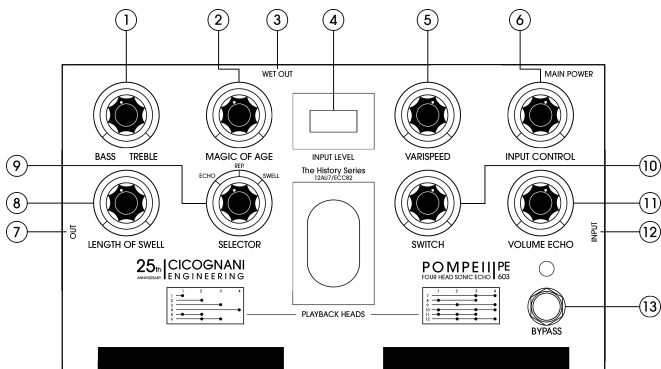
The connection is via 6.3mm mono jack.

The calibration of the feedback for each single head is fixed and made at the factory. Inside **POMPEII PE603** the only possible settings are those of bias and vu.

Adjustment by unqualified personnel is not recommended.

DESIGNED AND HAND-BUILT IN ITALY

CONTROLS



1. **Bass/Treble:** Tone of the repeats
2. **Magic of Age:** Modulation
3. **Wet Out:** Unbalanced Lo Z 100% effect out.
1/4" (6,3mm) mono jack able to connect to mixing consoles.
4. **Input Level:** The solid state "Magic eyes"
5. **Varispeed:** Change the base delay time
6. **Input Control:** Setting the input volume
7. **Out:** 1/4" (6,3mm) mono jack
8. **Length of Swell:** Feedback
9. **Selector:** 3 mode selector: Echo, Rep., Swell
10. **Switch:** Heads selector; 12 position switch to select the head combinations
11. **Volume Echo:** Set the mix of Volume Echo
12. **Instrument Input:** 1/4" (6,3mm) mono jack
13. **Bypass:** On/Off effect

SPECIFICATIONS

Power In	9 to 12VDC (Negative Tip)
Consumption	From 350 to Max 500mA
Input Impedance	<1M Ohm
Input Sensivity	1Vpp MAX
Output Impedance	<47K Ohm
Wet Out Impedance	<47K Ohm
Linearity Response	7Hz to 200Khz @ 1db
S/N Ratio Preamp	<91db
S/N Ratio Heads	- 90dbV
Effect Mix Level	MAX 50%
Wet Out Mix Level	100% WET
Heads Times	874 - 148 - 222 - 296mS
Varispeed Max Time	+100% MAX (592mS)
Heads Distortion	MAX 5% THD
Tone Frequency	Roll Off 1Khz @ 6db/oct
Switching Mode	Reed Relays
Input Buffer	1/2 12AU7B
Output Buffer	1/2 12AU7B
Int. Working Voltage	MAX 24VDC
Estimated Tube Life	Up to 3000 hours
Weight	0.7kg (1.5 lbs)
Length	130mm (5.1")
Width	220mm (8.6")
Height	50mm (1.96")

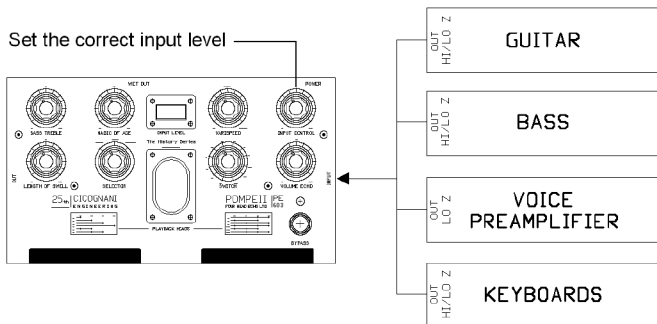
CAUTION! Make sure to check the power supply connection as per technical specifications. This pedal cannot be powered by a battery.

INPUT INSTRUMENTS CONNECTION

The input control must be adjusted so that you can use the right amount of signal. The input level (magic eye) will help you understand how to adjust the levels.



Attention! The input level adjustment is very important as it affects the behavior of the echo sound. With low input levels the mix may not reach a good presence while high levels may introduce harmonic distortion on repetitions.



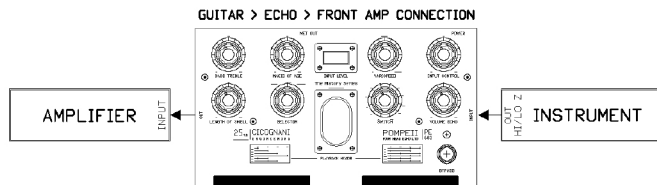
The Pompeii PE603 can be used with different types of instruments with output signals max 1Vpp and high or low impedances. The Old Italian echo was used as the main PA effect and shortly thereafter along with many instruments of the band. Today Pompeii wants to retrace those steps by offering wider compatibility even with the most modern instruments.

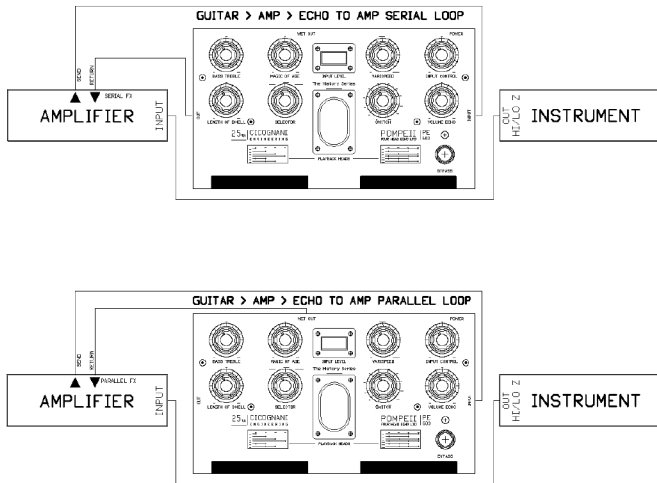
THE ECHO IN FRONT THE AMP

The use of the echo in front of the amplifier is one of the most classic configurations.

Thanks to a powerful input and output buffer we can send a good and clean signal to the amplifier.

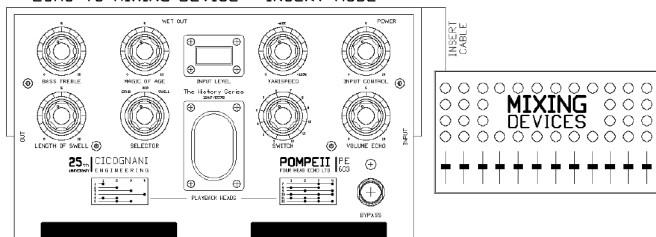
The use of good quality cables is always recommended. If you use Fuzz, Od. or Dist. pedals move the echo to the end of the chain to obtain the best performance.



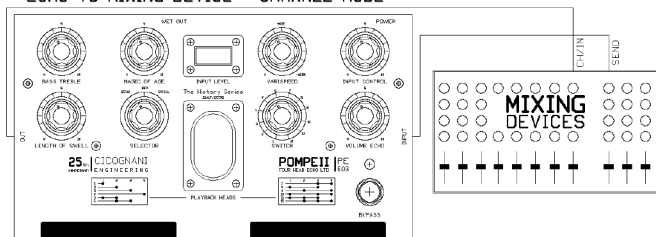


THE ECHO IN A MIXING CONSOLE

ECHO TO MIXING DEVICE - INSERT MODE -



ECHO TO MIXING DEVICE - CHANNEL MODE -



GURU ADVISES

1. Connect the main power to 12Vdc (min 500mA). Make sure the power supply is negative tip.
2. Connect the "Output" to the amplifier "Input".
3. Connect the "Input" to the instrument.
4. Set the "Input Volume". The input volume is displayed by "Input Level" and can be adjusted from super clean to overdrive. **(This function is assigned only to repetitions).**
5. The bypass foot switch is factory set ON/OFF. It's however possible to set the "fade-out" mode by removing the jumper located on the opposite side to the front panel.

WARRANTY TERMS

The guarantee of the products is two years from the purchase data. Switches, buttons, relays are one year. The thermionic valves, indicator lights, wiring cables are guaranteed for three months.

Responsibility of **CICOGNANI ENGINEERING** is limited to repair or replacement of the product at our discretion.

CICOGNANI ENGINEERING not be liable for damages resulting from loss of use of the product, lost time operation interrupted by non-use, loss of business or any other damages or incidental, consequential or otherwise; damage in transit or damage caused by inadequate packaging.

How to receive assistance: Send an email to sales@cicognani.eu in order to make agreements on how and where to send the product. The product must be sent together with a copy of the receipt/sales receipt. Shipping and packing costs are the responsibility of the purchaser.

THE WARRANTY IS NOT VALID WITHOUT A COPY OF YOUR RECEIPT OF SALE CERTIFYING THE DATE OF PURCHASE.





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