

TECHNICAL SPECIFICATIONS

Dimensions	127x95x52 mm
Weight	410gr. (without battery)
Chassis	Die-cast alluminium
Input impedance	1.3 MOhm
Output impedance	150 Ohm
Minimum load impedance with attenuation loss <0.5dB	5 kOhm
Maximum output level	2.2Vpeak (3.5Vpeak Booster and Presence active)
Maximum gain on Booster section	+18dB
Signal switching	True-bypass
Power supply power consumption	9Vdc/approx. 180mW (I-max: 22mA @9Vcc)
Power connection/ground	Negative tip/negative ground
Battery type	+9V (6LF22)

www.tefivintagelab.it



*Finest musical gear
handmade in Italy*



BUBOP! Operating Manual

TEFI Vintage Lab is pleased to welcome you to our family. We hope you enjoy using our new BuBoP! Buffer/Booster. Feel free to get in touch for any suggestions or clarifications as to how you might best use the effect. Play music and enjoy using our products!

BuBoP! - Buffer, Booster and Presence!

BuBoP! was conceived merging three features often needed by musici-
BuBoP! was conceived by merging three features very often needed by musicians: Buffer (the quiet Joe Buffer) and Booster (the angry Don Booster) combinable with Presence (the fat Bill Presence). This handyman stompbox can be placed anywhere in the effects chain: e.g. before an overdrive pedal to get more saturation, before a fuzz box to radically change its sound behavior to get a lot of “angrier” distortion. You can also place BuBoP! at the end of the chain to get the level boost required for solos or simply to give get overall sound equalization.

It's also useful to adapt the correct load instrument impedance to a old vintage amplifier or effects with low input impedance levels, or else before low input impedance mixers and PC soundcards. Thanks to its wideband response, covering the whole audio spectrum, BuBoP! can also be used with a bass guitar, electric piano or any instrument needing a preamplifier and/or equalization that can be activated with the Presence switch. The original “clip guard” LED blinks when the input signal is too high: this is an useful alert to establish whether the amp is saturating or not. With a blinking LED the BuBoP! gain stage saturates and can produce overdrive tones.

CONNECTION AND USE

- **Connection to instrument and amplifier/gear:** connect your instrument (or gear effects chain) to the Input jack on the pedal's right side with a 6.3mm Jack instrument cable. Connect the output jack on the pedal's left side to an amplifier (or to the next effects in your chain) with a 6.3mm Jack instrument cable.
- **Battery:** to access the battery compartment, remove the four screws on the bottom cover. Connect the 9V battery (6LF22 type) to the battery clip connector. Do not reverse the polarity! Insert the battery into the battery compartment located between the two footswitches. Be careful not to damage the wires and/or the battery clip. To preserve battery life disconnect the instrument cable from the pedal Input jack when the pedal is not in use.
- **Power supply:** connect a 9V stabilized external power supply adapter to the pedal's power connector located on the right side (5.5mm connector with 2.1mm pole type). Do not reverse polarity! (external positive, internal negative). In the presence of reversed polarity the pedal will not power up; no damage will be caused below 25V reversed polarity.

TEFI Vintage Lab invites you to activate the warranty within 10 days of the purchase of the product. It is necessary to connect to our website www.tefivintagelab.it and, on the page describing your product, fill in the required form in the "register product" section. TEFI Vintage Lab products are covered by a 5-year warranty. If the user finds an anomaly due to component defects and erroneous assembly, please contact us by sending an e-mail to info@tefivintagelab.it, describing the problem encountered in detail and the circumstances in which it was verified.

In compliance with the regulations defined in the following clauses, TEFI Vintage Lab undertakes to repair the instrument with no additional costs.

1. Warranty is valid for 5 years. Does not include parts subject to wear such as jacks, switches, potentiometers, dip-switches, 9V battery clip or 9V battery holder, nor does it include aesthetic parts such as knobs.
2. Warranty does not extend to damage caused by experience or negligence in the use of the effects pedal, or bad/neglected maintenance.
3. TEFI Vintage Lab undertakes to replace at its own discretion the malfunctioning or incorrect manufacturing parts, only after a careful check and verification of bad construction.
4. In the presence of incorrect use of the warranty, shipping costs will be charged to the user.
5. During the warranty period, the replaced parts/products become the property of the manufacturer.
6. This warranty is only valid for the original purchaser who has followed the normal maintenance instructions described in this manual. Our warranty liability expires at the moment the original owner surrenders ownership of the product, or modifications are made to it.
7. Warranty does not include damage caused by excessive stress, such as the use of the product after the detection of an anomaly, the use of inappropriate methods of operation, as well as the failure to observe use and maintenance instructions.
8. The manufacturer assumes no responsibility for any difficulties that may arise in resale or use abroad due to the provisions in force in the country where the product was sold.
9. The product part of the defective unit must be delivered to TEFI Vintage Lab for replacement, otherwise the replaced part will be charged to the buyer.
10. Any product repair or modification by the user or by companies not authorized by TEFI Vintage Lab will invalidate the warranty.

EU DIRECTIVE AND DISPOSAL

TEFI Vintage Lab products are designed to comply with the standards laid down by EU directives regarding safety and the environment. Pursuant to Legislative Decree No. 49 of March 14, 2004 "Implementation of Directive 2012/19/EU on waste electrical and electronic equipment (RAEE)".

The crossed-bin symbol indicates that the product, at the end of its useful life, must be separately collected from other waste.

The user must therefore confer the equipment with the essential components at the end of their life to the appropriate collection centers for electrical and electronic waste.

CONTROLS AND FUNCTIONS

Buffer or Booster modes are selected by pressing the footswitch located on the right side of the pedal faceplate. The Presence function is activated by the "P" toggle switch and is operative only when the Booster section is enabled.

BUFFER: is a unity gain amplifier (input and output levels are the same) used to adapt the high load impedance required from a guitar or passive bass to mid-low input impedance devices. A buffer must always be placed before most mixers, audio adapters or vintage equipment, to avoid input attenuation and a degraded instrument response (lack of mid-high frequencies). For the same reasons, it can be placed before a long instrument cable to null the parasitic cable capacity effect. Buffer section uses discrete components and is class-A operating.

BOOSTER: this section increases the signal level without causing distortion. Placing BuBoP! before an overdrive effect increases sustain and compression. It can also be placed before a fuzz box to significantly change its sound obtaining schizophrenic distortions. However, it can also be placed after the effects chain to increase the overall output level, e.g. during solos. Its wideband response will not affect the instrument or previous effects chain response. The "Level" knob sets the Booster gain from 0dB to +18dB.

PRESENCE: this section is activated by the "P" toggle switch and only works when the Booster is enabled (turning to Buffer mode disables Presence).

There are two knobs for this mode:

- increases a large portion of mid-high frequencies to obtain more instrument Presence without unpleasant "scratchy" effects. Hi Boost MAX (knob HI-Boost full CW, knob LO-Boost full CCW): +20dB @10kHz, turnover +3dB @700Hz.
- increases low frequencies to reinforce instrument response. LO Boost MAX (knob LO-Boost full CW, knob HI-Boost full CCW): +17dB @55Hz, turnover +3dB @950Hz.

