

## TECHNICAL SPECIFICATIONS

Dimensions	127x95x52 mm
Weight	385gr (without battery)
Chassis	die-cast aluminum
Input impedance	700 kOhm
Output impedance	470 Ohm
“Fred” section max gain	+50 dB
“Mike” section max gain	+66 dB
Signal switching	True bypass
Power supply/ Power consumption	9Vdc/approx. 225mW (I-max: 26mA @9Vcc)
Power connection/ground	Negative tip/negative ground
Battery type	+9V (6LF22)



*Innovative music gear  
created by  
two Nerds in Italy*



[tefivintagelab.it](http://tefivintagelab.it)

**MACCHERONI BROS Operating Manual**

Tefi Vintage Lab is pleased to welcome you to our family. We hope you enjoy using our new dual overdrive Maccheroni Bros. 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!

### **Maccheroni Bros - American-voiced dual Overdrive**

Maccheroni Bros is a dual overdrive consisting of two distinct circuits, TEFI Vintage Lab created this dual overdrive for musicians that need a wide variety of American overdrive sounds. The two channels are called Fred and Mike, both Italo-American bricklayers with very different personalities. Fred is lanky and placid, the ‘good’ brother. This channel is based on the proprietary PCN circuit finely calibrated to this role. It gives a creamy sound and dynamic overdrive with sweet midrange sustain that favors a Legato technique. Mike, stout and short-tempered, the ‘indomitable’ brother, produces the rock sound

obtainable from a tube amp pulled at full throttle. This channel provides good sustain and presence with clear attack of every note played. Its circuit is based on a J-Fet stadium, combined with other circuits designed to obtain the best overall sonic performance.

TEFI Vintage Lab created this dual overdrive for musicians that need a wide variety of American overdrive sounds. You can adjust Fred for delicate distortions and Mike for the more aggressive kind, but their roles can also be switched for maximum versatility.

## CONNECTION AND USE

- **Connecting 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 holder located on the bottom cover. Be careful not to damage the wires and/or the battery holder. To preserve battery life disconnect the instrument cable from the pedal input jack when the pedal is not in use.
- **Power supply:** connect a stabilized external power supply adapter from 9Vdc to maximum 12Vdc 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.

## CONTROLS AND FUNCTIONS

Maccheroni Bros has two independent channels, Fred and Mike, which can be selected by pressing the footswitch on the right side of the pedal faceplate.

**“FRED” channel:** based on our proprietary PCN circuit. Its wide range gain permits simple setting to get from a quasi-clean boost to a creamy sustained dynamic overdrive, also useful for Legato and Tapping techniques. Thanks to a wideband response, simply turning down the guitar volume goes from crunch drive to the instrument's own natural clean response. You can control Gain and Volume by setting the knobs “Gain Fred” and “Volume Fred”. Activation of this channel is indicated by the green LED.

**“MIKE” channel:** Mike is based on a J-Fet stage in combination with other circuit elements to give hard-rock sounds. Unlike Fred, Mike has a brighter and “angrier” colour with more sustain, conceived to obtain extremely saturated typical amp sounds with clear definition. You can control Gain and Volume by setting the knobs “Gain Mike” and “Volume Mike”. Activation of this channel is indicated by the violet LED.

**CONTOUR:** the knob Contour is located at the center of the knob array, and is shared by both presets. It regulates the general tonal balance in a wide frequency range. Turning fully CCW gives a warmer sound, to balance the response on bright trebly amplifiers. Rotating CW allows more presence and lows, without affecting the bass response.

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](http://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](mailto: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 inexperience 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.

