

Brunetti

Tube amplification

OWNER'S MANUAL

Mille

CUSTOM RELEASE

By reading this manual you will deeply know the device you bought and will have the chance to fully experience its potential. Our sets are handmade. This is why you could find some sound and structural differences. This testifies the handmade making of the product.

Finest Italian handmade

CONGRATULATIONS ON YOUR CHOICE!

MILLE CUSTOM RELEASE is the new Brunetti tube preamp in rack format. After 15 years from the birth of its forefather Mille, we are proud to reintroduce it aesthetically and technically revised. We are familiar with the obsessive and constant tendency of musicians to experiment new solutions always in search of different and unique sounds. This is the reason why we have developed an extraordinary instrument. MILLE CR offers a wide selection of sounds with unconceivable timbre features in a guitar preamp. Warmth, dynamics and definition merge cleanly helping you to easily create your own sound. This manual is intended to be a useful help to deeply know the MILLE potential. We recommend the reading as well to those who already know the product typology. Alternatively, please devote a little of your time to experience your MILLE CR before your live performance, if possible!

Switch MAIN ... ON!

SPECIFICATIONS

6 CHANNELS: CLEAN, CRUNCH, LEAD PLEXI, LEAD MODERN, STEP-UP PLEXI, STEP-UP MODERN

GUITAR MAIN INPUT on the front panel and AUX on the rear for RACK wiring

SERIAL/PARALLEL STEREO FX-LOOP with level switch for STOMP EFFECTS or RACK SYSTEM (Send - Return L - Return R)

MAIN L - R (FLAT) OUTPUTS for power amplifiers

EMU L - R (FILTERED) OUTPUTS for recording consoles/mixers

**MIDI IN/THRU for automatic switching functions (also manual)
CLEAN, CRUNCH, LEAD PLEXI, LEAD MODERN, STEP-UP**

VOLTAGE STABILIZED power supply, ZERO "HUM" TOROIDAL transformer

POWER MAIN switch on the front panel

6x 12AX7/ECC83 TAD RT001 Premium Selected TUBES

OVERALL DIMENSIONS: 2U RACK / DEPTH: 235mm - 9.25in

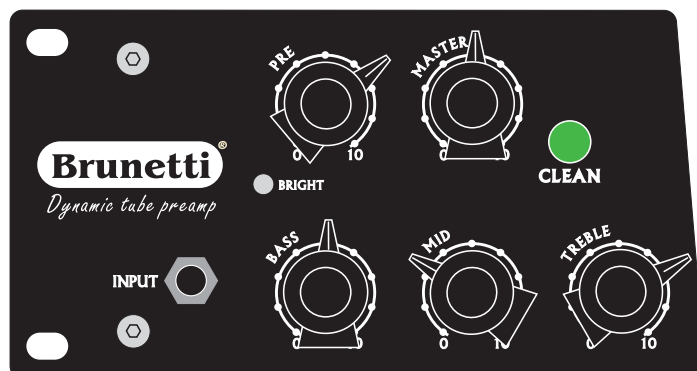
WEIGHT 3,5Kg - 7.71lbs

BOX CONTENT: Power cable & owner's manual

CHANNELS AND FUNCTIONS

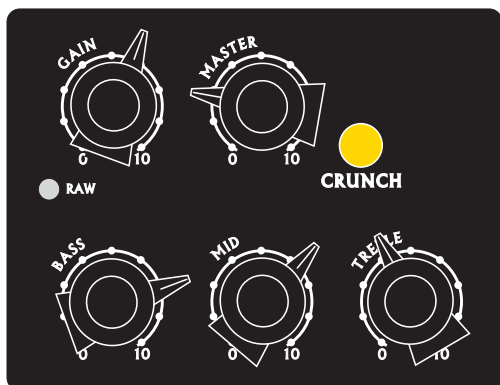
CLEAN

CLEAN is the channel for pristine, balanced and naturally compressed sounds. Thanks to **PRE**-control you can achieve a very smooth saturation. Dynamics will be harmonious and well defined with no loss of warmth. The equalization section is the typical passive control, very light in its action and useful to find your shape in every kind of guitar/pickup combination. The **BRIGHT** switch works on a frequency range from 3KHz to >10KHz. The **MASTER** control adjusts the signal sent to the effects loop (SEND) and to outputs.



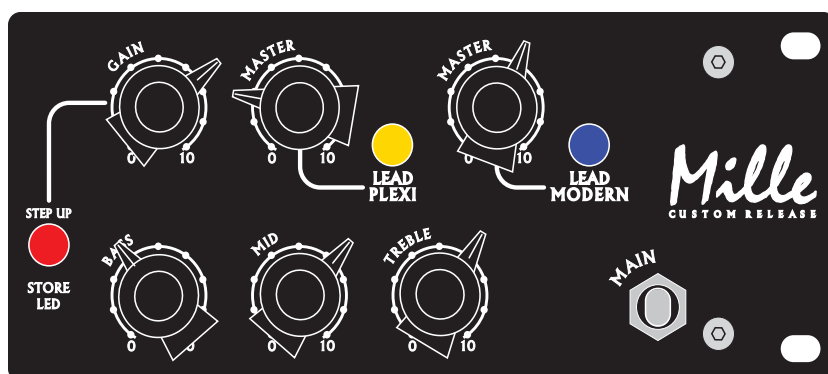
CRUNCH

CRUNCH is the bridge channel between CLEAN and LEAD. Its timbre has been carefully studied to work at its best when you use it as semi-clean or full-crunch, an hard-to-find quality in similar sections of other productions. You can vary from a semi-clean full of body with great presence on medium range, to an aggressive full-crunch never harsh. This is a versatile channel with a huge dynamic range. Here too, the equalization controls are typical of our production: they are passive so they would not cause the sound to become harsh and they are perfect in every situation. The **RAW** switch adds harmonics between 8KHz and 10KHz and is great in high/medium gain levels. The **MASTER** control adjusts the signal sent to the effects loop (SEND) and to outputs.



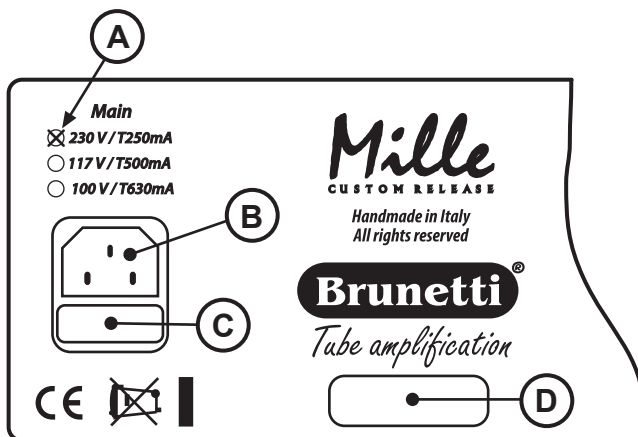
LEAD

LEAD channel includes 2 sections: **LEAD PLEXI** and **LEAD MODERN**. As you can easily deduce, the 2 modes are absolutely different, almost opposites. The **LEAD PLEXI** has been conceived to obtain a "vintage style" saturation without too much vehemence in high range and it is rich in bass. In this case too, you have to interpret the term LEAD because, in a low gain condition, the **LEAD PLEXI** acts as a rich and fat crunch that could be suitable for solo performances. The **STEP-UP** function heightens harmonics to the utmost and leads compression and distortion of the channel to the limits but maintaining the "brown style" timbre. The **LEAD MODERN** is completely different. It is wide in terms of frequency and it has an unbelievable definition, even at low volumes. On a lower region of gain rhythmic are "in your face", aggressive and defined. The **STEP-UP** function switches the distortion at a higher level, bringing a great harmonic enhancement and making the phrases smoother, and adding a unique personality to the channel. The **MASTER** control adjusts separately the signal sent to the effects loop (SEND) and to outputs.



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REAR PANEL

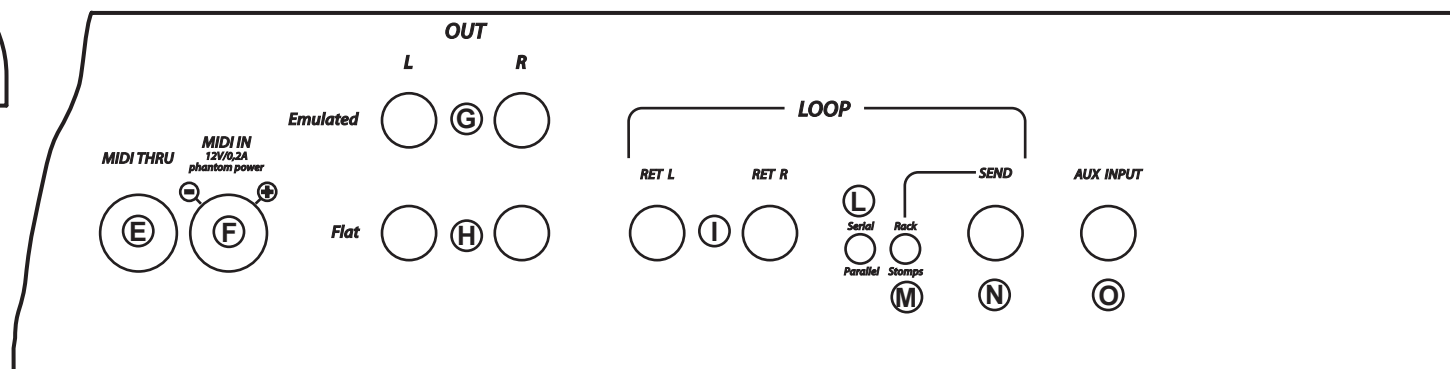
VOLTAGE, PROTECTION AND CAPTIONS

- A - MILLE CR operating voltage.
- B - AC power socket.
- C - Overload protection fuse (T250mA). You can find a replacement in the additional slot.

WARNING!!

If the fuse blows there is a problem. Please contact support@brunetti.it

- D - This sticker reports the serial number and date of production information.



CONNECTIONS

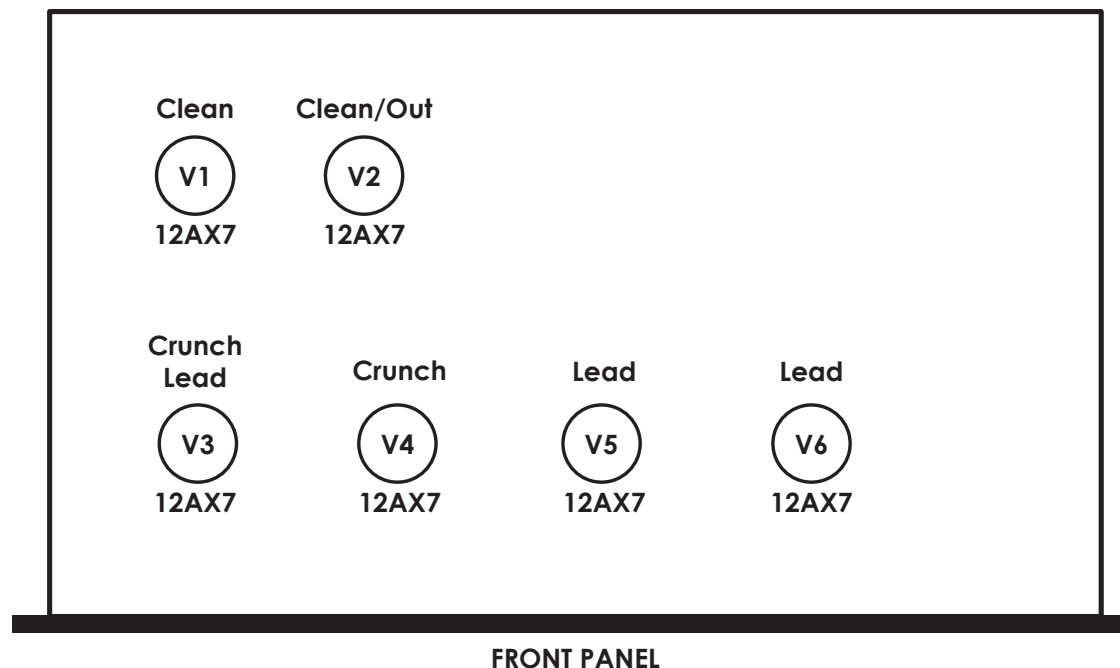
- E - MIDI THRU: pass-through connection to send the MIDI signal to another device.
- F - MIDI IN: input connection of the MIDI signal sent by a MIDI footswitch controller or other similar device.
- G - EMULATED OUT: output jack of the filtered L/R line signal (cabinet simulator) for recording/direc use.
- H - FLAT OUT: output jack of the L/R line signal for use with power amplifiers.
- I - RET L/R: input jack of the signal sent by a mono/stereo effects unit; if your MILLE is used in MONO mode please use only L input.
- L - SERIAL/PARALLEL: switch to select the running mode of the effects loop.
- M - RACK/STOMPS: switch to select the level of the signal to be sent to SEND, for rack systems or stomp effects.
- N - SEND: output jack of the signal to be sent to the effects unit.
- O - AUX INPUT: remote input jack of the signal sent by guitar; please do not use together with the input on the front panel.

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TUBES LAYOUT



FRONT PANEL

WARNING!!

12AX7/ECC83 tubes are long-lasting. Replace them only if necessary with identical or equal models, and choose only high quality products.

WARNING!!

Please refer to the manufacturer for all repairs and tubes replacement, to insure the correct working of the preamplifier. It does not exist service centres licensed by Brunetti Marco & C. The manufacturer declines all responsibility for malfunctioning due to assistance not provided or authorized by Brunetti & C.

EFFECTS LOOP

On the effect section of the rear panel you can find **SEND**, **RETURN L** and **R**, **SERIAL/PARALLEL** and **STOMPS/RACK** switches.

SEND is the output connection to send signals to the effect input. It has been conceived for pedal effects (STOMP) or rack unit effects (RACK). Its level fits all systems on sale.

RETURN L and **R** are the input connections taking back the signal processed by the effect to the internal mixer (**PARALLEL** position), where it will be mixed at 50% with the direct signal and to the **FLAT/EMULATED** outputs or (**SERIAL** position) directly to the **FLAT/EMULATED** outputs. If the effect is mono, use **SEND**, **RETURN L** and **FLAT/EMULATED L** outputs.

For all connections in the LOOP section, use only very short shielded cables of high quality. Remember also that whatever effect will modify the original timbre of the amplifier, depending on the quality of the system/device you employ.

STOMP EFFECTS

Connect only modulation (or ambient) effects to the loop, like chorus, flanger, delay, reverb, etc. to obtain the best sound performance. Flip the **SERIAL/PARALLEL** switch to the SERIAL position (selecting serial loop): the signal will pass entirely in the effects connected to the loop. Modulation pedals are normally equipped with a Level or Mix control to be adjusted according to how much effect you want to add. DO NOT reach too high MASTER volumes, to avoid saturation of the effects in the loop.

RACK EFFECTS

When you connect digital rack effects, switch your loop in PARALLEL position, thus leaving out the direct signal (Dry) from the effect. You can control the mixing of preamp sound (Dry) with effect (Wet) without any change in the original preamp sound and decreasing the loss of quality due to the digital conversion by the multieffect unit. The IN level of the effect must be adequate to the real volumes you reach with your preamp checking that the signal sent by SEND does not saturate the effect. To achieve a good balance between volume and effects level you have to adjust the output volume of the effect too.

SWITCHING

You can operate the channels and the functions of your MILLE CR in manual or MIDI mode. In addition to the "light" functions previously explained, the manual system enables to switch the BRIGHT on the CLEAN channel and the RAW on the CRUNCH channel. The MIDI mode is exclusively dedicated to the functions you can set through the light push-buttons.

MIDI

The MILLE CR can operate the different "light" functions thanks to a standard MIDI pedalboard that sends a program change through one of the 16 channels (all MIDI pedalboards on sale have this function). The MILLE CR receives the program changes through the OMNI channel, i.e. sent by all MIDI channels (1 -16).

The MIDI THRU connection can send the received MIDI signal to other MIDI devices. The MIDI input is a 7 poles Din that performs two main duties: it receives the MIDI signal and provides a 12Vdc/200mA voltage (on pin 6 & 7) useful to supply power to a MIDI pedalboard compatible with this function (WARNING: please respect the voltage, the maximum power levels and the polarity).

STORING PROGRAMS THROUGH EXTERNAL MIDI PEDALBOARD

Please, follow this procedure to store the setting to be recalled by MIDI:

- Select the preset you want to use on your pedalboard (ex. 01)
- Select the channel (or the combination of functions) you prefer on your MILLE CR (ex. Lead + Step-up).
- Press the "light" button of the selected channel (**CLEAN**, **CRUNCH** or **LEAD**), hold on until the STEP-UP/STORE led flashes to confirm the storage completed.
- When you recall the preset on the MIDI pedalboard the preamp will act accordingly.

GENERAL INFO ON EFFECTS & FX-LOOP

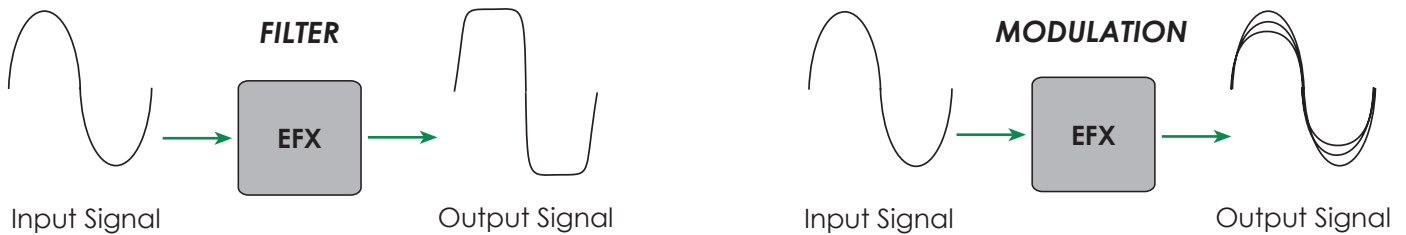
FILTER EFFECTS

The filter effects main feature (see example) is the physical alteration of the signal wave, as a distortion pedal does.

This family of effects finds its best place between guitar and preamp input.

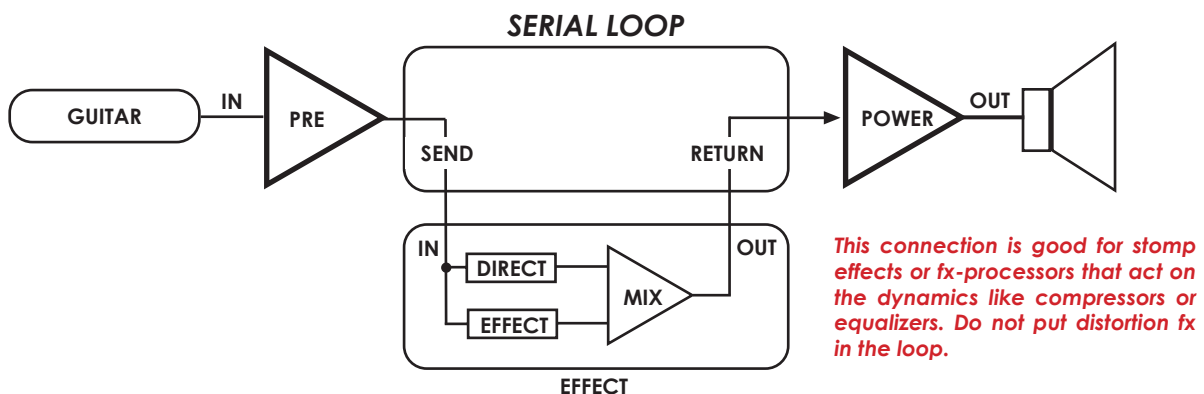
MODULATION EFFECTS

The modulation effects main feature (see example) is the addition or the overlapping of other curves or waves to the input signal. This family of effects finds its best place in connection to the effects loop, i.e. between preamp and power amp.



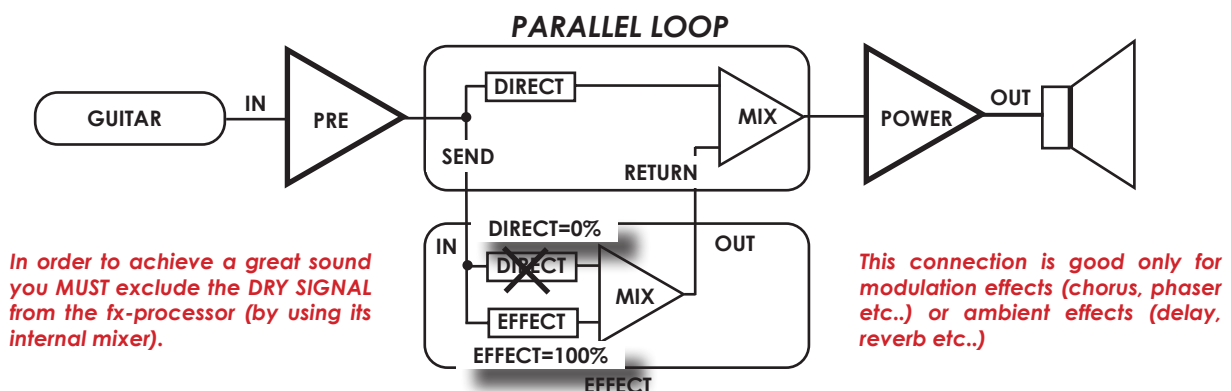
SERIAL LOOP

In the serial loop all the signal getting out of the preamp passes through the effects chain of the loop. During the setting of the effect you have to consider that the sound is composed by a share of the original sound (DRY) and a share of the processed sound (WET). They both come from the original sound and are mixed (MIX) INSIDE the effect processor before being sent to the outputs.



PARALLEL LOOP

In a parallel loop a share of the signal getting out of the preamp passes unaltered through the loop circuit (DRY) and a share reaches directly the SEND. The latter is processed by the effects, sent to the RETURN and then mixed with the DRY. The effect quality is less important here than in the serial loop because the original DRY signal will be not "colored" when it passes through the loop or the effect and the WET signal will be pleasantly added to the DRY signal.



IMPORTANT INFORMATIONS & WARNINGS

WARNING!!

Before any kind of cleaning operation, disconnect the appliance from the electric supply.

- Do not throw water jets directly on the appliance;
- Do not use water steams to clean the appliance;
- Do not use solvents to clean the appliance;
- For satin alluminium use a soft cloth + product for metal parts, for stainless steel use a paper + product for chrome parts.

WARNINGS

- The manufacturer declines all responsibility for any kind of damage to persons, things and/or animals resulting from a wrong use of the appliance;
- The appliance conformity is proved by CE symbol on the rear side;
- The manufacturer reserves the right to make any useful and essential change to the products without compromise the main safety and working features;
- Do not use the appliance barefoot;
- Do not touch the appliance with wet or moist hands or feet;
- Do not leave the appliance exposed to rain, sun, dust, umidity, etc..;
- Do not allow children or incompetents to use the appliance;
- Do not leave inflammable materials near the appliance;
- Do not pull up the appliance by control knobs
- The appliance repair may be done during the warranty period only by us, in our laboratory, or by authorized staff, in conformity to the national previsions in force;
- Periodically check all cables supplied with the appliance, if they result damaged, you have to replace them immediately with another one with the same characteristics;
- In case of malfunction contact the shop where you bought the appliance;
- The appliance MUST be earthed in conformity to the national previsions in force;

**Please fill out the warranty form you find on
www.brunetti.it
to validate your warranty.**

WARNING!!

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