



*Masotti Guitar Devices*

***TB6***

*User's manual*



**Welcome to Masotti Guitar Devices world and thank you for your choice. Our challenge is to bring new ideas in guitar amplification, exploring new techniques and adopting the "no compromise" philosophy.**

**TB6 is a true bypass looper. It manages up to six pedals in direct mode as well as via MIDI. Noise switch is absent thanks to the microprocessor clickless technology, developed by MGD and adopted in all our products.**

## **IMPORTANT:**

**BEFORE SWITCH ON THE DEVICE, PLEASE READ CAREFULLY THE  
IMPORTANT SAFETY NOTES AT PAG. 8**

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## General description.

TBS is a floor looper, completely true bypass, that manages up to six effects both in direct mode (by corresponding stomps) and via MIDI. Noise switch is absent thanks to our clickless technology based on a microprocessor that acts on the internal gold plated relays. Signal passes through them only, no semiconductor is present on the signal path.

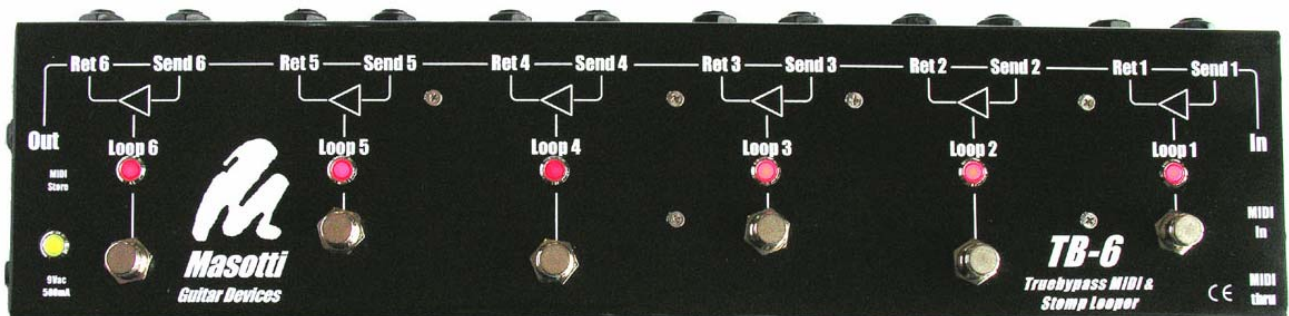
By the six stomps, any loop can be included or excluded at any time. Via MIDI, any combination of the six loops can be recalled by a simple Program change. The combination can be temporarily modified by the stomps and it can be restored simply sending again the same Program Change.

The same combination can be easily stored in different program changes (see next paragraphs). Mechanical structure of TBS is robust for heavy duty live applications. The loops status is clearly indicated by six red leds, while a multicolor led indicates the status of the device (normal or programming mode).

Two or more TB6s can be easily connected in daisy chain.

In the MGD products panorama, PW4 and MIDI STOMP are the ideal complements for TB6 to have a no-compromise and flexible pedal board.

## Commands and connectors.



On the front panel, the six stomps are available for the immediate access to loops. The corresponding leds indicate the loop status. Graphics allow the signal path visualization.



On the right side we can find input jack, MIDI IN and MIDI THRU plugs.



On the left side we can find output jack, programming switch and power supply plug.



On the upper side there are the send/return jacks for the loops, easily identified by the graphics of the front panel.

## Normal functioning.

Normal functioning is selected by moving the programming switch to the low position. Powering TB6, a loop check sequence is made. During this sequence, status LED is yellow. After the sequence is ended, status LED becomes green and it indicates the normal status. Now all the loops are excluded and the device is completely in bypass. From now, you can activate any loop and de-activate them by pressing one or more times the corresponding stomp, according to the "toggle" logic. You can also send any PC to the TB6 for recall the combination of the loops stored previously. The recalled sequence can be modified by stomps and restored simply sending the PC again. Default MIDI channel is #1, it can be modified in factory and it must be specified at the order moment.

Of course, the effects connected to the loops must be powered and in active status. MIDI patch reception is confirmed by a momentary yellow blinking of the status LED.

## MIDI programming.

In order to store any combination in any PC memory, please follow this procedure:

- 1) Switch ON and connect the MIDI pedalboard to the MIDI IN connector with a standard 5-poles cable. Pedalboard must be set in channel 1 or the desired channel, as requested at the moment of the order.
- 2) Switch ON the TB6 by simply connecting the power supply to the power connector.
- 3) Move the Prog switch to the high position; status LED now is red.
- 4) Set the loops in the wanted combination by stomps.
- 5) Send the patch or the patches in which you want to store this combination. At every MIDI reception, status LED blinks yellow.

- 6) Repeat 4 and 5 steps as necessary.
- 7) Move the prog switch in low position; status LED becomes green. Now TB6 is in normal mode and you can start to play and enjoy it!

You can move to normal mode to prog mode and vice-versa in any time simply acting on the left side switch.

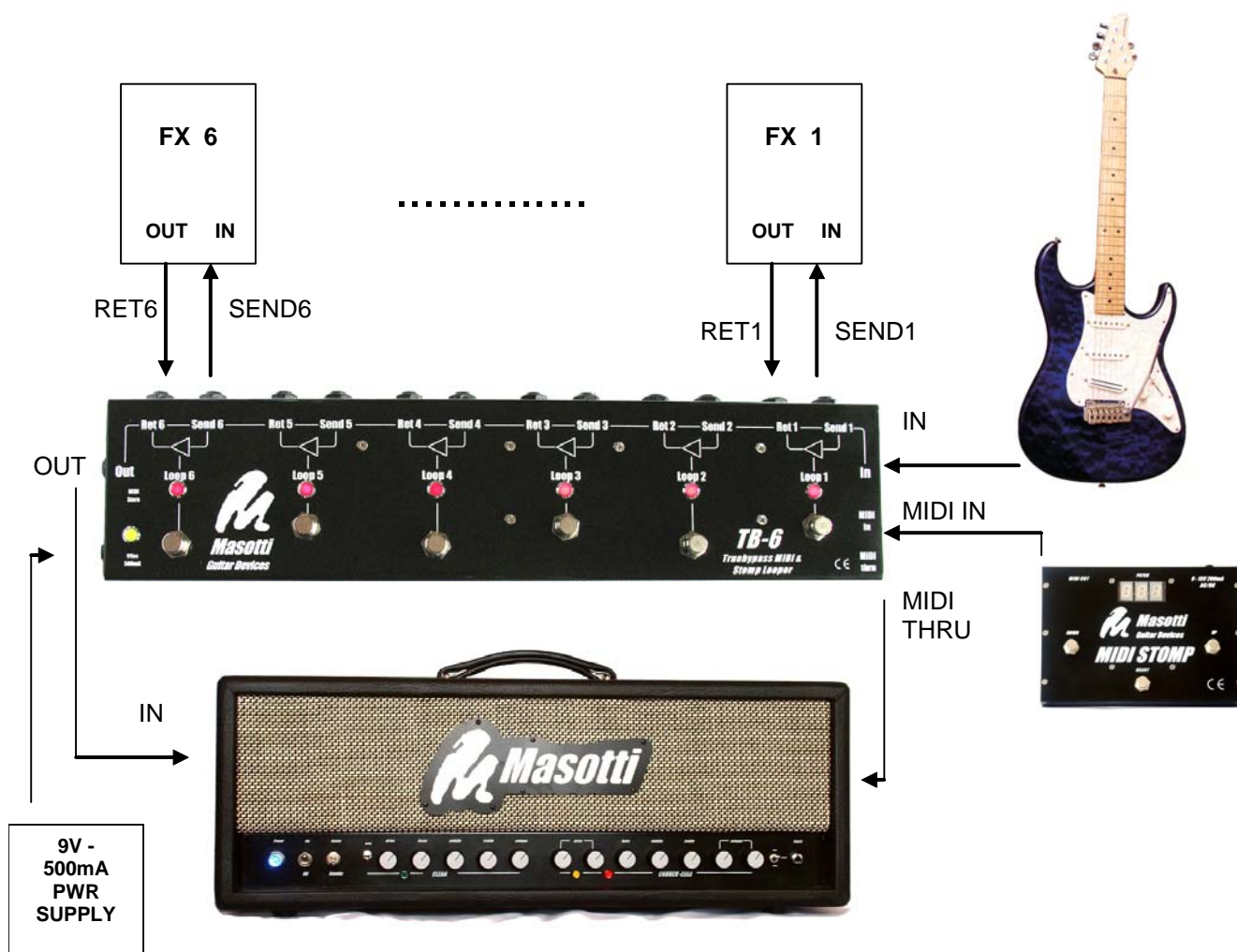
## Standard MIDI map.

Factory map has the bypass on patch 0, loops 1 and 4 on patch 1, loops 2 and 5 on patch 3, loops 3 and 6 on patch 4. It is only a test map and you need to set your own map following the proper procedure as illustrated before.

## Connections.

In the following picture you can find the standard connections for TB6.

### TYPICAL CONNECTIONS



## Power supply.

TB6 requires a 9V 500mA power supply. A stabilized power supply is preferred in order to minimize hum and disturbs, even if TB6 accepts also 9V AC power supplies. Polarity is not important, plug must be a standard 2.1mm internal diameter. IMPORTANT: The power

supply that powers TB6 cannot supply any other effect or device, please use a dedicated unit. Always use a CE/FCC marked power supply, with cable and plug not damaged. Check both input and output voltage before use it.

## Effects sequence.

A start trace for connecting the effects can be the following:

- 1) wha wha: if it is true bypass, it can be connected also before the TB6. Of course, in this case it's not possible to manage it via MIDI;
- 2) dynamics effects (booster and compressors);
- 3) distortions: overdrives, distortors and fuzzes;
- 4) modulations: chorus, flanger, phaser;
- 5) ambients: delays and reverbers.

An optional volume pedal can be placed both immediately after the guitar, before TB6 input (as instrument volume control) or after the chain, after TBS out as master volume.

This sequence is only a trace and it has to be modified according to personal needs and preferences.

## Interconnecting cables and connectors.

True bypass systems, if correctly projected and built, introduce a negligible signal loss when they are in bypass. TB6 is equipped with gold plated relays and connectors and it is wired with silver plated, teflon isolated cables. When in bypass, its electrical equivalent length corresponds to about 1m of good quality cable. Nevertheless, when loops are active, signal passes through external connectors and cables and, of course, through the effects. So, it's very important to use best quality components and to use short cables.

However, a good buffer before the chain is recommended in all complex true bypass systems in order to compensate impedance mismatches and signal loss between different pedals.

## Warranty.

Warranty is 2 (two) years according to EU laws. Warranty is not valid if the device is opened or partially modified without our authorization. No responsibility is due for Masotti Guitar Devices for damages to human, animals or things originated by a misuse or a different use of TB6 as described in this manual.

## Important safety notes

TB6 is projected and engineered to comply to EU safety and electromagnetical compatibility CEI EN 60065, EN 55103-1 and EN55103-2. CE mark indicates the compliance. Furthermore, even if ambient policy of MGD limits at the minimum the use of potentially polluting components, according to current EU laws customer must waste this device in special sites.



Nevertheless, in order to avoid shock or hurt risks, you should follow carefully the indications reported in this manual and in the next list:

- **Never open the case. No serviceable parts inside. For service, refer to MGD or qualified and skilled personnel.**
- **Never remove any screw.**
- **Don't expose TB6 to rain, water sparks, excessive humidity, chemical vapours, heavy dust, heat fonts, strong vibrations.**
- **Never introduce in the plugs objects different than corresponding connectors.**
- **Always use CE/FCC-approved and good conditions power supply.**
- **Before switch TB6 on, check mains and ouptut voltages value on the power supply.**

## Technical specs.

Six loops true bypass system.

Power requirements: 9V AC/DC 500mA

Parasitic capacitance on the signal with loops in bypass: <100pF.

Switching time: < 50ms.

Ambiental conditions: 10-40°C, 30-90% no condensation humidity.

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