

Relay Based True Bypass System

Twin Bender has a relay based true bypass system for the ultimate in fast, reliable, and quiet switching. Your delicate guitar signal stays on the PCB and is never routed through the footswitch. Power is needed to operate the bypass. If Twin Bender is powered by a dying battery, bypass switching may fail.

POWER-ON STATE

When power is applied to Twin Bender, the default state is BYPASSED. Another option is for it to return to the same state, ON or BYPASSED, it was in when power was removed. To choose that option, hold down the footswitch for 5 seconds. To go back to being always BYPASSED, hold the switch again.

Troubleshooting

If bypass switching becomes unresponsive while using a battery, the battery may need replacing. The switching can be reset by removing and reapplying power. For excess noise, first try isolating Twin Bender by removing everything else from the signal chain and using a fresh battery for power.

Return Policy

If this product was purchased directly from Ramble FX, the original owner may return it within two weeks of receiving it for a full refund, minus all shipping costs. It must be returned in new condition, and the buyer is responsible for return shipping. If it is returned with any signs of wear, a restocking fee of 20% may occur. Please contact support@ramblefx.com for approval first.

Warranty

Ramble FX warrants only to the original purchaser, under normal use and service, that this product is free of defects in components and workmanship for a period of 5 years. Please review the full details at www.ramblefx.com/warranty. Please contact us at support@ramblefx.com if you have questions or need a repair.

Ramble FX shall not be responsible for any incidental or consequential damages. Ramble FX's responsibility is limited to the product itself. Ramble FX assumes no responsibility for any indirect costs or losses however incurred.

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Twin Bender



USER GUIDE

Twin Bender by Ramble FX

Thank you for purchasing the Twin Bender by Ramble FX. Ramble FX pedals are designed and built in the USA.

What is Twin Bender?

Twin Bender is Ramble FX's take on the legendary Sola Sound Tone Bender™ MKII Professional, with exciting new features. Your Twin Bender uses new, old stock (NOS) germanium transistors and premium capacitors.

Twin Bender is actually two classic 'Bender' circuits in one, the MKII Professional and the MK1.5. The MKII is considered by many to be the holy grail of fuzz. MKII mode uses all three of Twin Bender's germanium transistors and is a powerful fuzz with near infinite sustain that melts into feedback. MK1.5 mode uses only two of Twin Bender's germanium transistors and is a circuit very similar to a Fuzz Face®. MK1.5 mode produces less fuzz and is more sensitive to a guitar's volume control.

Operational Notes

There are endless fuzz tones available with Twin Bender. Changes in you guitar's volume and the "imped" mini-knob will alter the gain and tone. There is plenty of volume on tap to be able to push your amp into overdrive as well. Be patient and experiment and you will be discovering new tones for a long time!

PLACEMENT

Active (powered) circuits, like buffers, wireless systems, and active pickups placed before Twin Bender can degrade its tone. The 'impede' mini-knob can help restore the tone. For the most authentic tone, connect Twin Bender directly to the guitar and turn 'impede' fully clockwise (stock).



Controls

MKII PRO / MKI.V TOGGLE

MKII PRO mode is a 3 transistor circuit which produces massive amounts of fuzz and sustain. MKI.V (MK1.5) mode uses 2 transistors and has less fuzz.

LEVEL KNOB

Volume control.

MIDS / STOCK / FAT TOGGLE

A 3-position switch which alters the tone to enhance bass frequencies (FAT) or middle frequencies (MIDS). The middle position is stock Tone Bender™.

ATTACK KNOB

Fuzz control; sets the gain.

BIAS (MINI-KNOB)

A transistor's bias is the electrical condition in which it operates and can have a large effect on tone. Temperature can change a germanium transistor's bias. To set the bias, start with the mini-knob turned fully counter-clockwise and then slowly turn it clockwise as you play. Listen for a spot that has output and sustain you like. There is no correct setting; original Tone Benders didn't have a bias control and varied by quite a lot from one to another.

IMPEDE (MINI-KNOB)

This changes the impedance by adding resistance at the input. Fully clockwise is no resistance, the stock Tone Bender setting. Turn this counter-clockwise to help restore tone if Twin Bender is placed after a buffer, or to restore a wah's tone if placed after a wah. It also has a large effect on gain and tone.

Power

Use only well regulated, 9V DC power with a 2.1 mm plug and center negative (-) polarity, or a battery.



Only daisy chain with other negative ground pedals. Remove the back plate to insert a 9V battery. To conserve battery life, the battery is automatically disconnected when the DC jack is in use. Power is disconnected automatically when an instrument cable is removed from the pedal's input.

Your Twin Bender features a voltage inverter (charge pump) which solves the challenge of powering a germanium fuzz from a wall adapter or power supply. Most germanium fuzzes require opposite polarity power, also referred to as "positive ground." Normally that would require a separate power supply, but because of Twin Bender's voltage inverter, it can share a power supply daisy chained with other pedals.