Thank you for purchasing the Twin Bender by Ramble FX! Ramble FX pedals are designed and built in the USA, by hand, using only the finest components available.

What is Twin Bender?
Twin Bender is Ramble FX’s take on the legendary Tone Bender™ MKI 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 MKI Professional and the MKI.5. The MKI.5 is considered by many to be the holy grail of fuzz. MKI.5 mode uses all three of Twin Bender’s germanium transistors and is a circuit very similar to a Fuzz Face®. MKI.5 mode produces less fuzz and is more sensitive to a guitar’s volume control.

Operation Notes
There are endless fuzz tones available with Twin Bender. Changes in your guitar’s volume and the “impede” mini-knob will alter the guitar’s sustain. There is a variety 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
The best spot for Twin Bender is directly connected to the guitar, with no buffers in front of it. If you place Twin Bender after a buffer or an effect, the “impede” mini-knob can help restore the tone.

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 the 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
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 safely with other pedals.

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

Relay Based True Bypass System
No more clumsy, noisy, failure-prone big blue switch! The Twin Bender has a true bypass system which uses a relay with gold plated contacts for the ultimate in fast, reliable, and quiet switching. A relay is a sealed mechanical switch that is operated from an electronic signal. The ultra-durable, momentary (click-free) footswitch triggers the relay. Your delicate guitar signal stays on the PCB and is never routed through the footswitch.

The Twin Bender must be powered for the bypass switching to function. If it is in bypass mode and the power is disconnected, the signal will still pass through, just like any other true bypass pedal.

Operation and Care
If bypass switching becomes unresponsive, reset the pedal by disconnecting power for 5 seconds. Keep your Twin Bender dry and away from extreme heat or cold. Clean only with a dry towel. There are no user serviceable parts internally.

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 original 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. In the rare event of a malfunction, we will repair, or at our option, replace this product at no charge, except for shipping. Prior authorization is required by contacting Ramble FX at support@ramblefx.com. Excluded from this warranty are cosmetic damages such as knicks, finish, and labels. This warranty shall be null and void if the product is subjected to repair work or alteration by a person or facility other than Ramble FX, misuse, abuse, operation with incorrect voltage, incorrect connections, wrong accessories, and exposure to inclement conditions; shipping accidents.

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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Controls

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

LEVEL KNOB
Volume control.

MKS / 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
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