

# MIKER/SPLITTER V4.2

Parallel splitting and mixing tool.

## OVERVIEW

This is a must-have for your pedalboard. Depending how you use it, it can be:

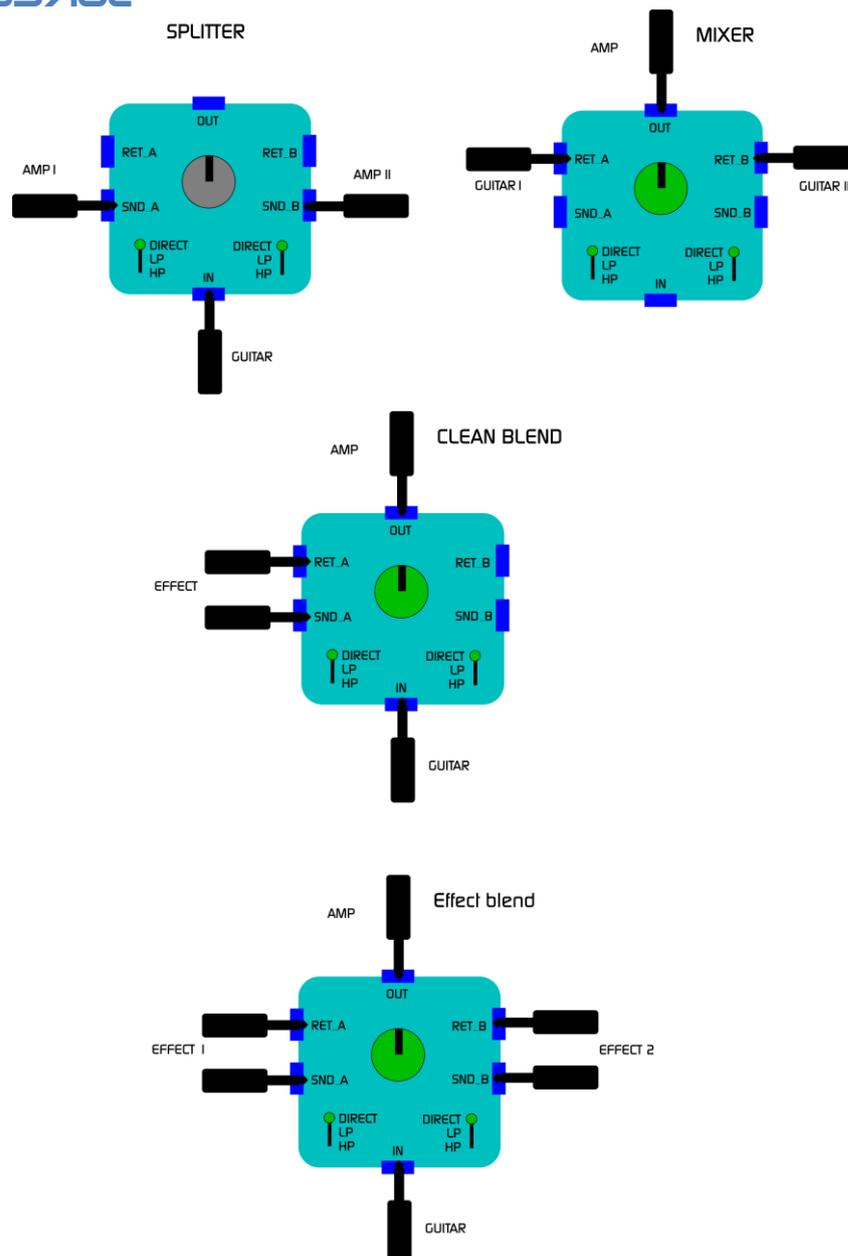
- Signal Splitter,
- Signal Mixer,
- Two parallel effect loops
- Clean Blend

The V4.2 release has an optimized layout for space savings and easier mounting in a 1590B enclosure.

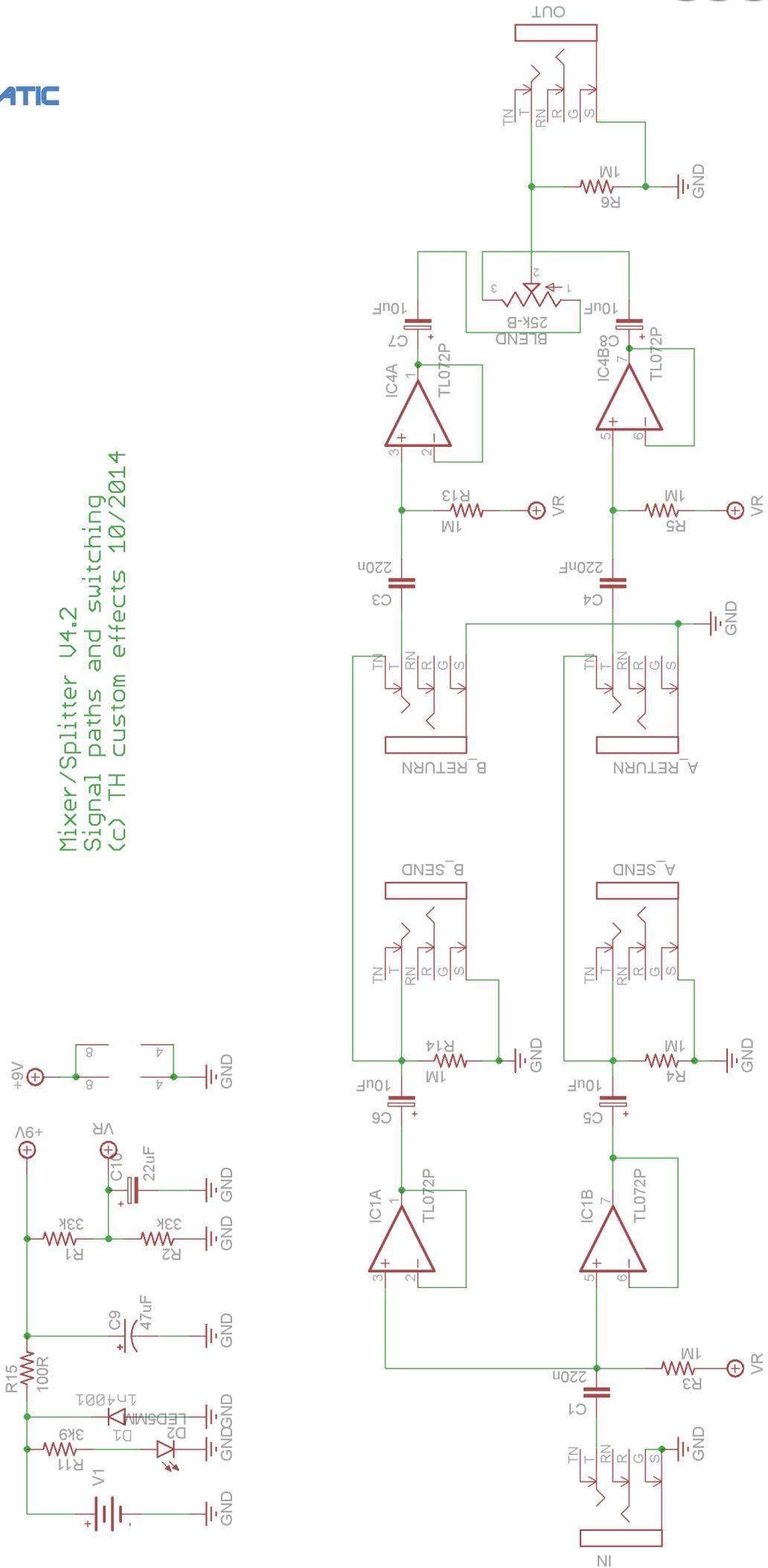
## GENERAL

The Mixer/Splitter is a version of the Pro-processor without the HP and LP filters. It comes in handy when filtering is not needed but splitting or mixing signals is key!

## EXAMPLE OF USAGE



# SCHEMATIC



Mixer/Splitter U4.2  
 Signal paths and switching  
 (c) TH custom effects 10/2014

## BILL OF MATERIALS

	Device#	Qty	Value	Comment
<b>Resistors</b>	R1, R2	2	33k	
	R3, R4, R5, R6, R13, R14	6	1M	
	R11	1	3k9*	*check with your LED first!
	R15	1	100R	
<b>Capacitors</b>	C1, C3, C4	3	220n	box film
	C5, C6, C7, C8	4	10uF	polarized electro
	C9	1	100uF	polarized electro
	C10	1	22uF	polarized electro
<b>Pots</b>	BLEND	1	25k-B	linear
<b>Diodes</b>	D1	1	1n4001	
	D2	1	LED superbright	color of choice
<b>ICs</b>	IC1, IC4	2	TL072P	Use OPA2134 or TLC2272 for extra low noise
<b>Other</b>	Jack1-6	6	NRJ6-HM-1	<a href="#">Mouser Link.</a>
	alternative	6	NRJ4-	only metal nuts will fit!

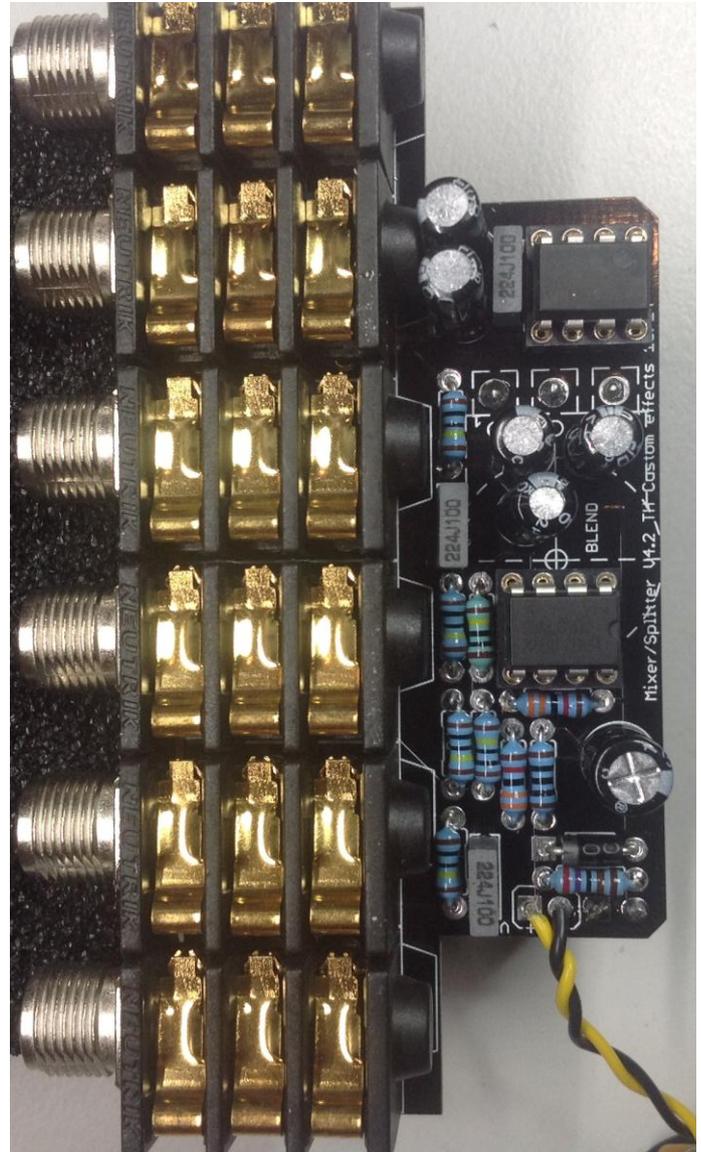
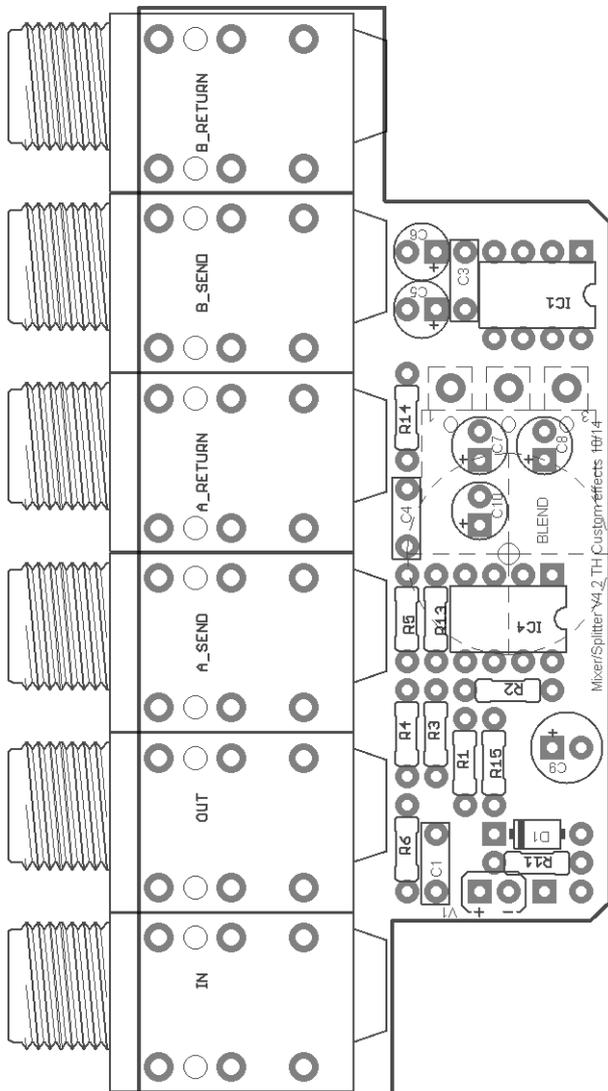
Pay attention when selecting the jacks. Unfortunately there are no NRJ4 with metal tip anymore, so you need to buy the stereo version (NRJ6) when you want them grounded to the enclosure (-HM).

You can also use the plastic version but you will need to ground your enclosure via a piece of wire. Also the plastic nuts will not fit next to each other as they are too close. There are round metal nuts which will work on the plastic shaft.

When ordering make sure you order the version with nut included or order the nuts separately!

## BUILDING

Start populating resistors and diode first, then IC sockets and capacitors. Then go the jacks. You need to clip of the middle contact row and any plastic pins to fit it in. Last mount the BLEND pot from the backside.



## FINALLY

The splitter/mixer is a universal tool for every guitarist. Use it in one of the suggested ways or – if you found another use for it – let me know what it is.

## DISCLAIMER & LICENSE

PCBs purchased from TH custom effects are intended for DIY / non-commercial use only. It is not allowed to redistribute the PCBs and artwork from this document. However, you can use these instructions and PCBs to build and sell your own product based on PCBs ordered from TH custom effects.