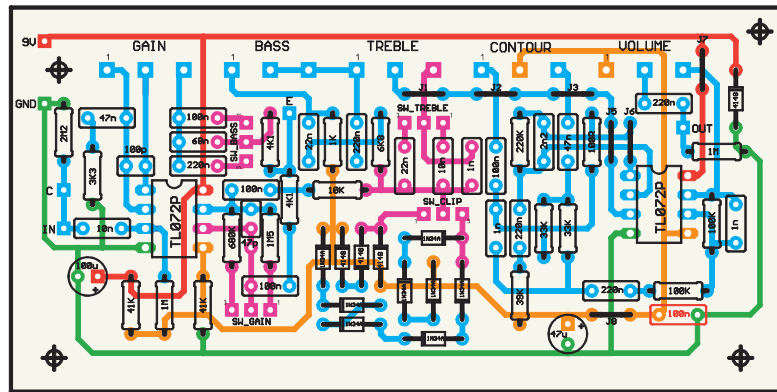
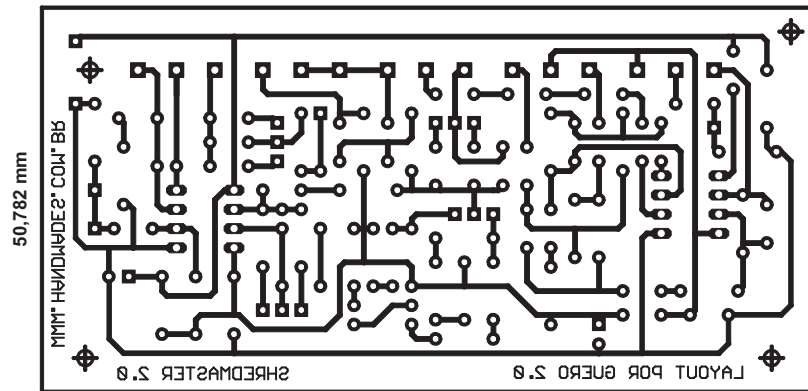


MARSHALL SHREDMASTER 2.0

Reference: Mods & Schematic by Kelson Bueno (www.handmades.com.br Member)
Original post and concept (in Portuguese - Brazil) at www.handmades.com.br Forum
Layout by Güero 2.0



DIODES

- D1 4001 (polarity protection)
- D2 1N4148 (Normal Clip)
- D3 1N4148 (Normal Clip)
- D12 1N4148 (Normal Clip)
- D4 1N34A/1N60 (Crunch Clip)
- D5 1N34A/1N60 (Crunch Clip)
- D6 1N34A/1N60 (Crunch Clip)
- D7 1N34A/1N60 (Crunch Clip)
- D8 1N34A/1N60 (Crunch Clip)
- D9 1N34A/1N60 (Crunch Clip)
- D10 1N34A/1N60 (Crunch Clip)
- D11 1N34A/1N60 (Crunch Clip)

POTS

- VOLUME 100K A
- BASS 100K A
- TREBLE 22K A
- CONTOUR 100K B
- GAIN 100K B

IC'S

- IC1 TL072
- IC2 TL072

RESISTORS

- R-LED 2K2/4K7
- R1 41K
- R2 41K
- R3 2M2
- R4 1M
- R6 3K3
- R7 4K1
- R8 4K1
- R9 680K (Normal Gain)
- R10 10K
- R11 6K8
- R14 1K
- R15 39K
- R16 220K
- R17 100R
- R18 33K
- R19 33K
- R20 100K
- R21 100K
- R24 1M
- R25 1M5 (Hi Gain)

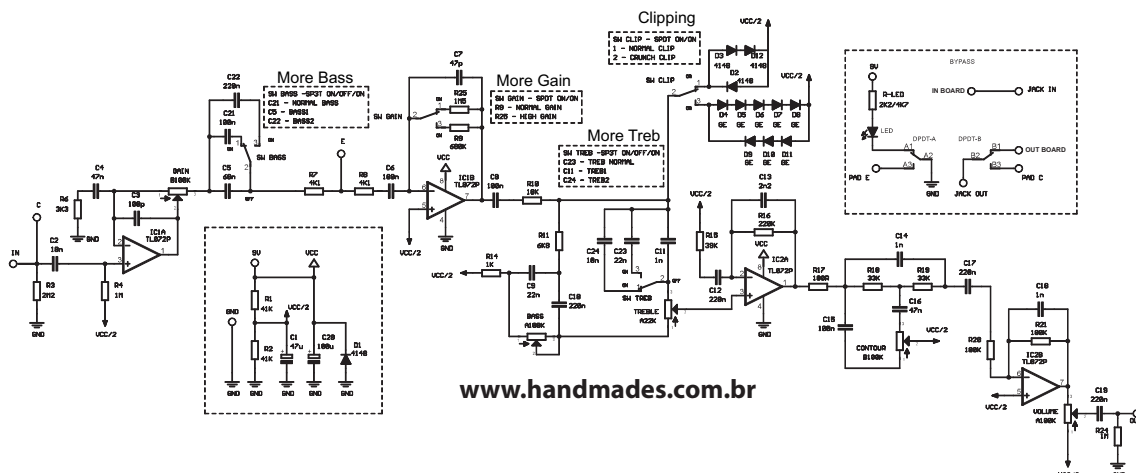
CAPACITORS

- C1 47uF (VCC/2 hum Filter)
- C2 10n
- C3 100p
- C4 47n
- C5 68n (Normal Bass)
- C6 100n
- C7 47p
- C8 100n
- C9 22n
- C10 220n
- C11 1n (Treble II)
- C12 220n
- C13 2n2
- C14 1n
- C15 100n
- C16 47n
- C17 220n
- C18 1n
- C19 220n
- C20 100uF (VCC hum Filter)
- C21 100n (Bass I)
- C22 220n (Bass II)
- C23 22n (Normal Treble)
- C24 10n (Treble I)
- C25 100n (Optional hum filter, RED part in layout)

SWITCH

- SW BASS SPDT - ON/OFF/ON
- SW TREB SPDT - ON/OFF/ON
- SW CLIP SPDT - ON/ON
- SW GAIN SPDT - ON/ON

Schematic w/ Mods



www.handmades.com.br

www.handmades.com.br - December, 2005
MODS by Kelson Bueno - Handmades.com.br Member

Basic settings

Gain Bass Contour Treble Volume



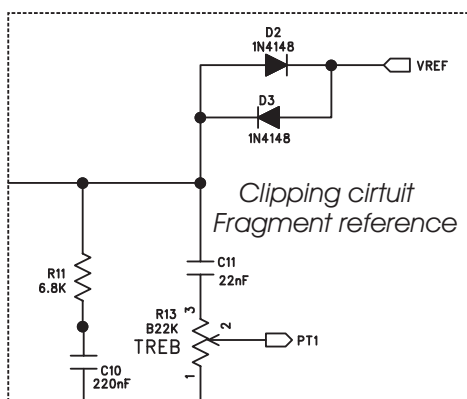
Gain Bass Contour Treble Volume



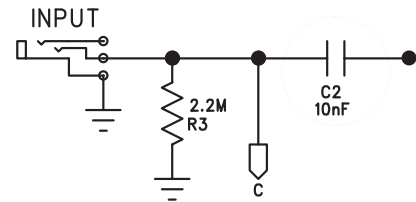
Gain Bass Contour Treble Volume



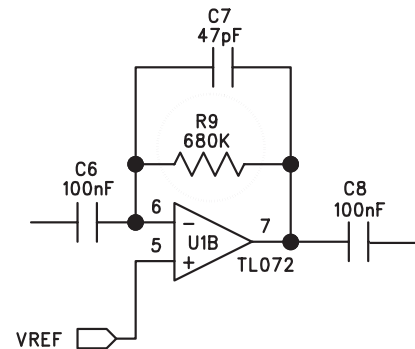
Gain Bass Contour Treble Volume



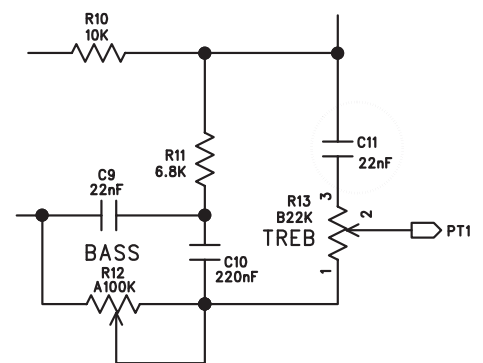
Add more BASS response: Increase C2
E.g. 220n



Add more gain to 2^o stage:
Increase R9.



Add TREBLE to tonestack:
Decrease C11 value - 10n to 1n



The image displays four distinct clipping circuit topologies for guitar amplifiers, each enclosed in a dashed rectangular border. Each circuit has a common input terminal on the left and a common output terminal at the bottom. The output of each circuit is taken from a node connected to a VREF terminal, represented by a trapezoidal symbol.

- Modern Clipping:** This circuit uses five 1N4148 diodes. Two diodes, D2 and D3, are connected in series between the input and the output node. A second series combination of diodes D4 and D5 is connected in parallel with the first series combination. The output is taken from the node between D2 and D3.
- Ge diode: Tube Screamer SD-1:** This circuit uses three germanium diodes. Two diodes, D2 and D3, are connected in series between the input and the output node. A single diode, D4, is connected in parallel with this series combination. The output is taken from the node between D2 and D3.
- Red LEDs: Guv'nor:** This circuit uses two red LEDs, D2 and D3. They are connected in series between the input and the output node. The output is taken from the node between D2 and D3.
- Ge diodes 1N60/1N34A Super Crunch:** This circuit uses nine germanium diodes. Six diodes (D2, D3, D4, D5, D6) are connected in series between the input and the output node. Three additional diodes (D7, D8, D9) are connected in parallel with this series chain. The output is taken from the node between D6 and D7.