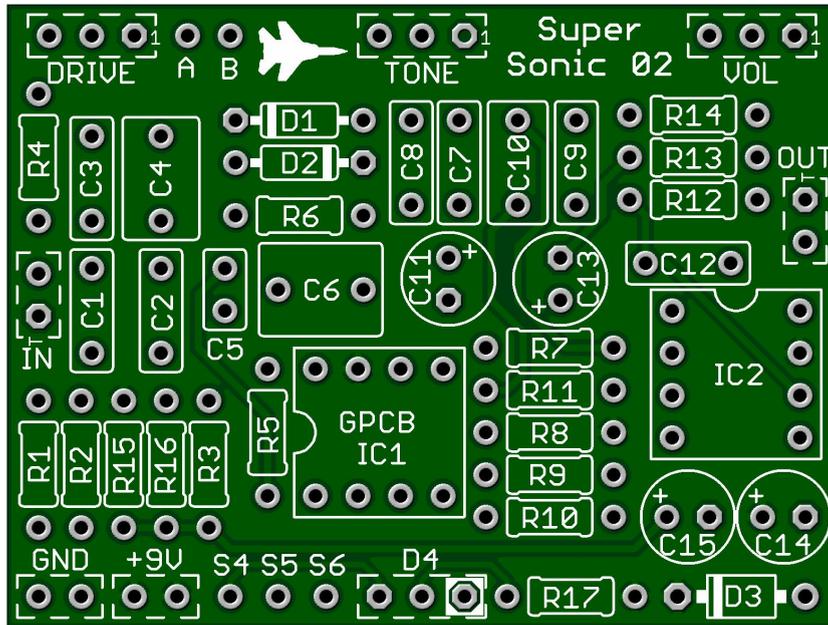
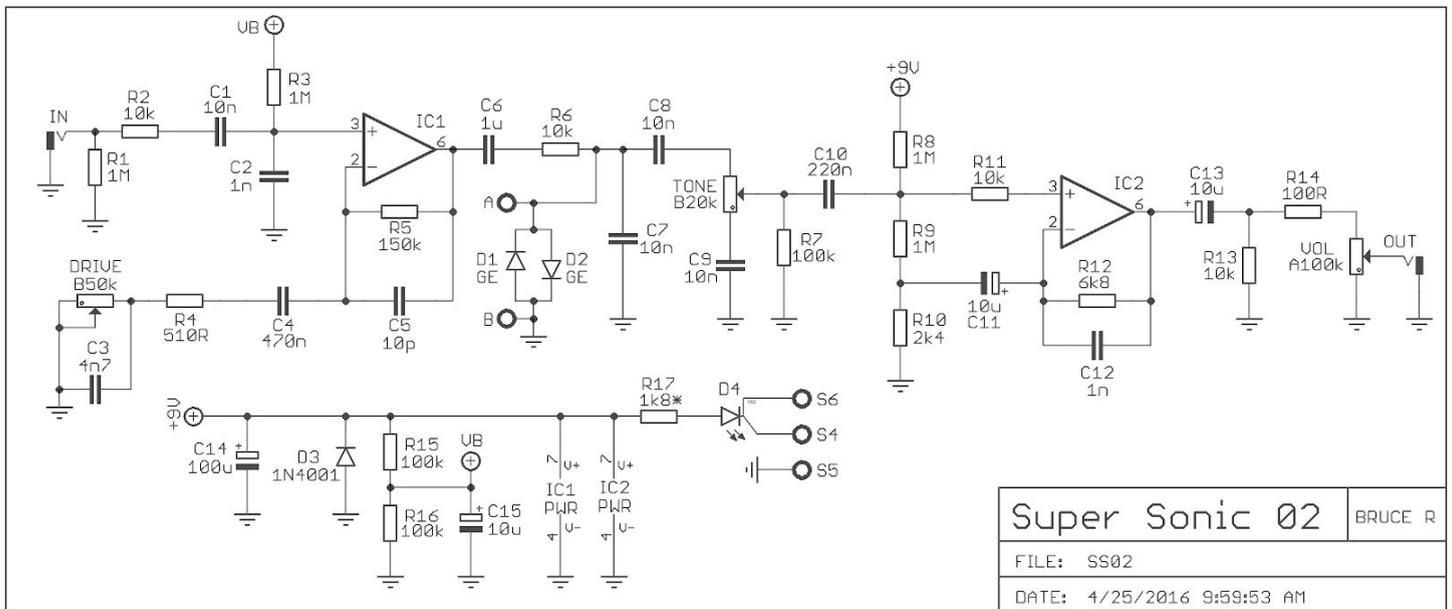


# Super Sonic 02

A Super Sonically fantastic recreation of an outrageously expensive British offering that will leave you smiling in the "pink". Team it up with our famous G-02 Animal to make a familiar pair that even Sir David would love! Get the hint? Well, get the Super Sonic 02 and create your own tones!



Board Dimensions (W x H) 1.96" x 1.48"



**Full Disclosure:** This circuit is never to be misrepresented as a "clone" however it is a circuit that's goal is to make affordable for DIYers to build and try such pedal circuits that we will never have the opportunity to enjoy based on sheer cost alone. Add to that we have made available extra modifications such as **A/B pads** so that you might "create" your own special version of such a circuit that will best suit "your ears" and "your rig". See the Build Notes below.

Part	Value
R1	1M
R2	10k
R3	1M
R4	510R
R5	150k
R6	10k
R7	100k
R8	1M
R9	1M
R10	2k4
R11	10k
R12	6k8
R13	10k
R14	100R

Part	Value
R15	100k
R16	100k
R17	1k8*
C1	10n
C2	1n
C3	4n7
C4	470n
C5	10p
C6	1u
C7	10n
C8	10n
C9	10n
C10	220n
C11	10u

Part	Value
C12	1n
C13	10u
C14	100u
C15	10u
D1	1N34A
D2	1N34A
D3	1N4001
D4	BiColor CA LED
IC1	LM741**
IC2	TL071**
DRIVE	B50k***
TONE	B20k
VOL	A100k

## Build Notes:

\*R17 is the Current Limiting Resistor. The higher the value, the dimmer the light. Use 1k8 to 4k7 base.

\*\* Using a pair of single opamps, each with an individual purpose IC1 in the Gain Stage and IC2 in the Makeup Stage will allow you to use an LM741 in IC1 or experiment with higher fidelity chips. Then use a higher fidelity chip in IC2 such as the TL071, TL061 or NE5534. This will give you the option for stock or mod.

\*\*\*The stock value for the gain Potentiometer is a B50K linear which is fine. A "mod" would be to try a C50k Reverse Taper which will give the "feel" of a Gain that is more spread out over the turning ratio if desired.

Regarding A/B Pads: The RotoTone will allow you to switch between (3) clipping options and stock. See image below! RotoTone board A/B pads to the Main board A/B pads and switch between 4 options. You may also use a DPDT Wiring Board for a dual option clipping section. Create your own special variation!

Please use authentic N.O.S. and verified working Germanium Diodes from a reputable dealer.

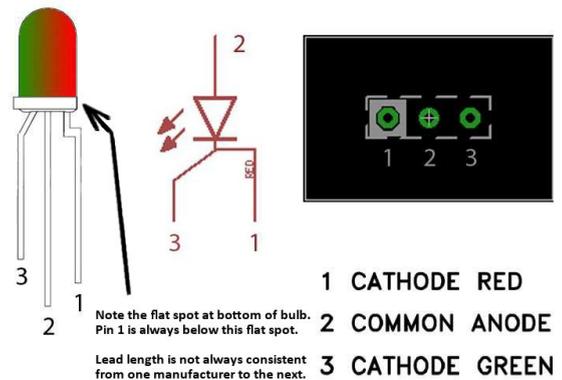
I carry hand tested Germanium Diodes using a DCA55 Atlas and heat test for every diode in my PCB Shop.

Please note all kits are stock per the Bill of Materials. You are responsible for all MODs & parts.

## STATUS LED

D4 is a common anode bi-color LED. The diagram at right shows the pin-out, schematic symbol and pad connection for a common anode LED. The pin-out for the bi-color LED is typically (but not always) as follows: The lead 1 pad on the circuit board is marked with a white box.

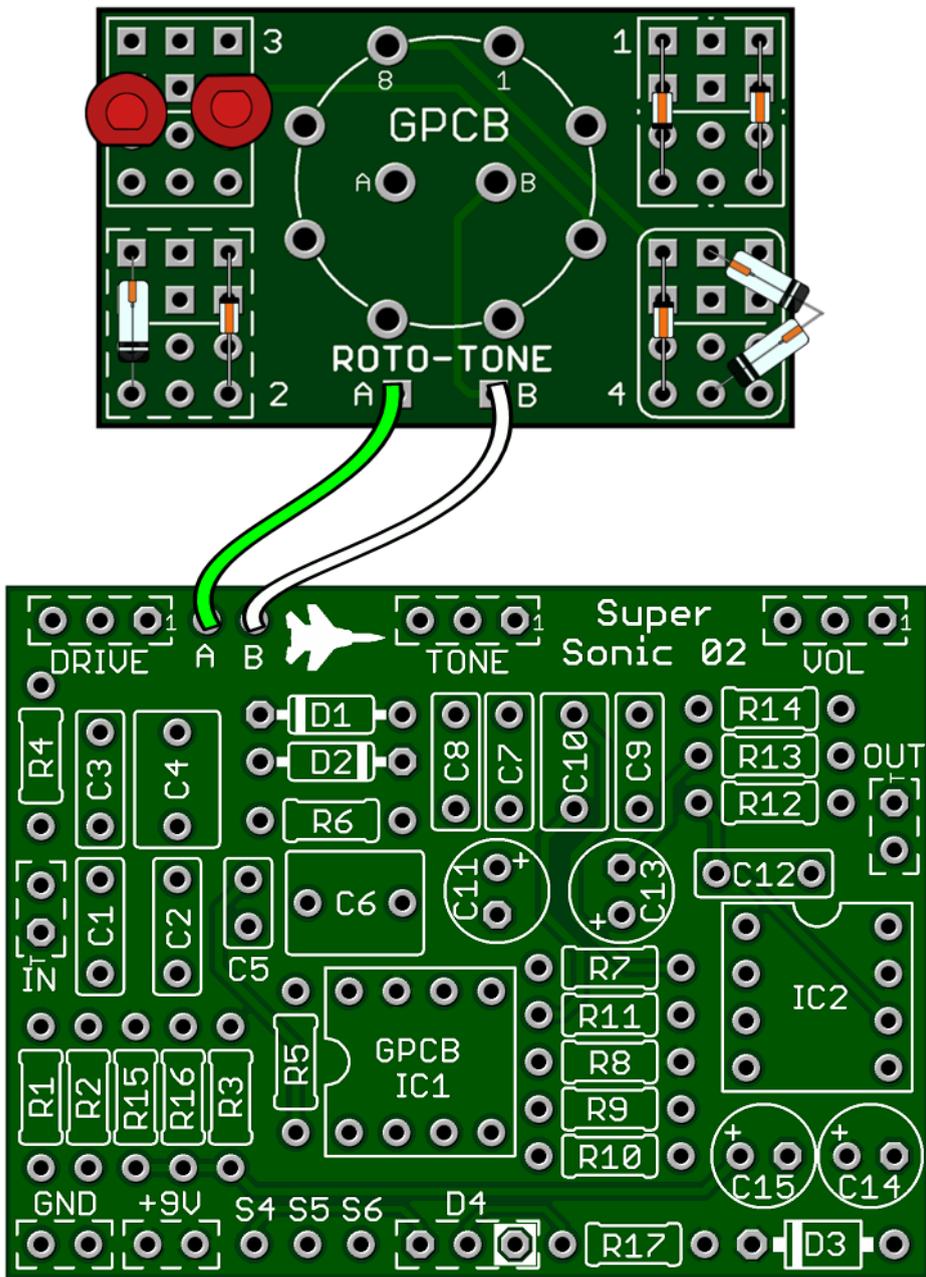
When connected correctly, the LED will light red when power is applied and the circuit is in bypass mode. The LED will light green when in effects mode. If you wish to use a standard LED, connect the anode to the middle pad and the cathode to the right pad to show the circuit in effects mode. If you use a 3PDT wiring board that includes an LED, you can omit this LED and R17. \*R17 is the LED's Current Limiting Resistor (CLR). If you use a different LED, you may want to change this value to adjust LED brightness.



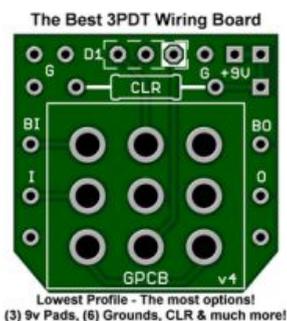
- 1 CATHODE RED
- 2 COMMON ANODE
- 3 CATHODE GREEN

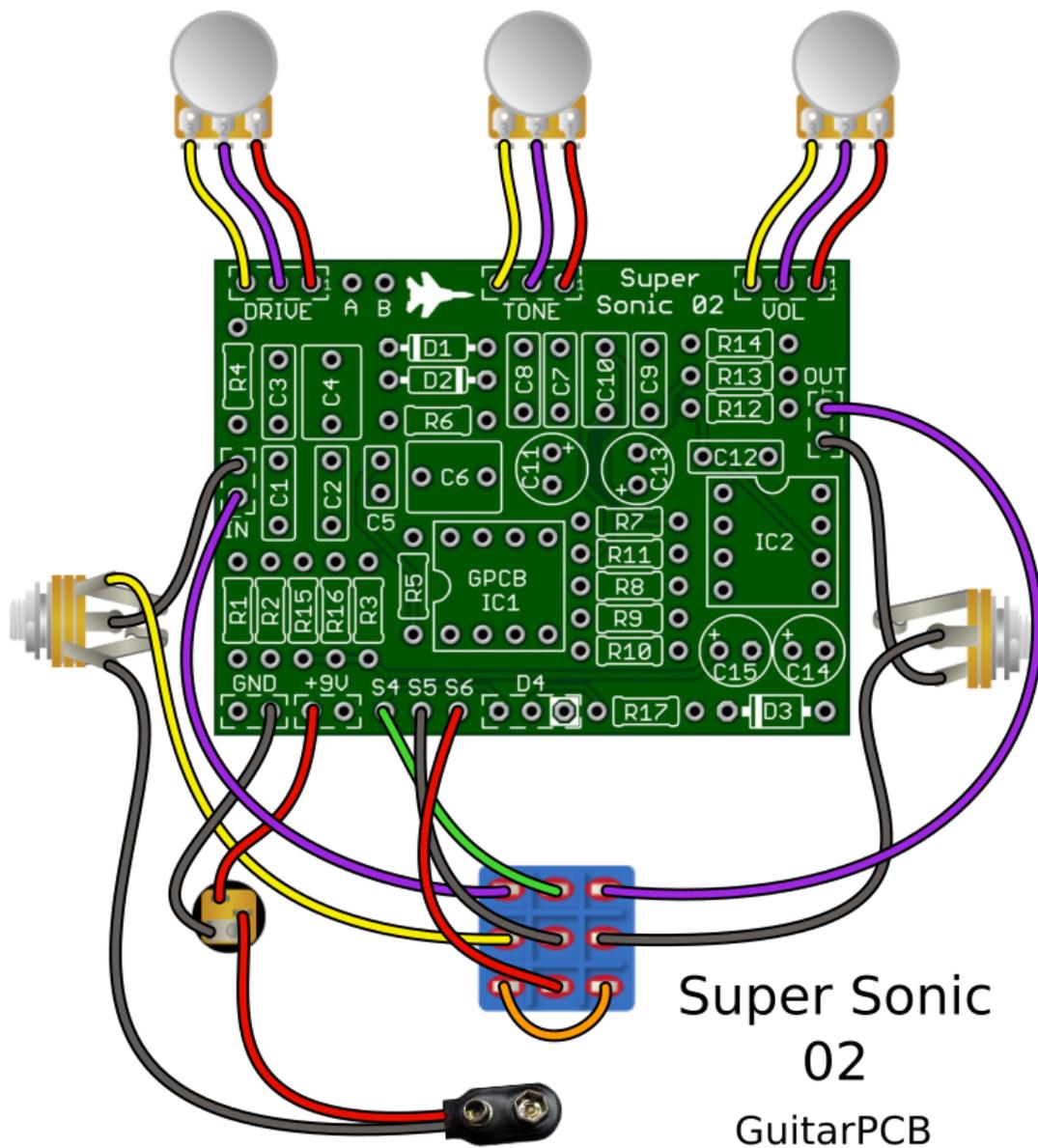
## ROTO-TONE DIODE OPTION for SUPER SONIC 02

Replace D1 and D2 with various combinations of clipping diodes to taste.



If you are using one of GuitarPCB's handy [3PDT wiring boards](#), pads S4, S5, S6 and D4 would be ignored and R17 would not be installed. See wiring guide below for reference.





Super Sonic  
02  
GuitarPCB

[Soldering Tutorial on Youtube](#)

Need a kit? Check out our authorized worldwide distributors:

USA – Check out [PedalPartsAndKits](#) for all your GuitarPCB kit needs in the USA.

Europe – [Das Musikding](#) Order either boards or kits direct from Europe.

[PedalPartsAustralia](#) - Order either boards or kits direct from Australia

If they do not have a KIT listed send them a note asking if they can help you out.



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