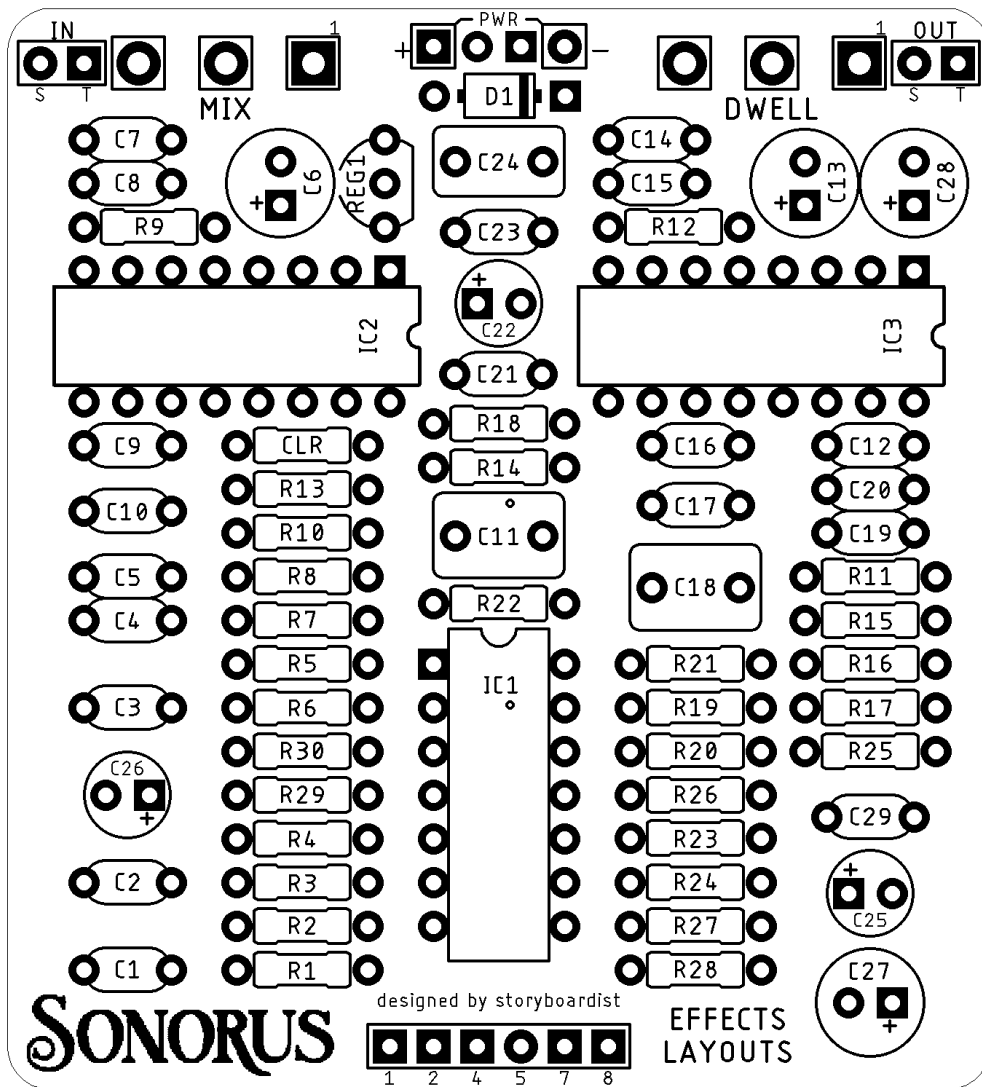


# SONORUS

## DESCRIPTION

The SONORUS is a simple reverb circuit that does not need a Belton reverb brick. It instead utilizes 2, PT2399s set at different short delay times. It takes the PT2399 configuration of the Valve Wizard Equinox and combines it with the Dwell control from the Blue Wave Reverb. It makes for a higher parts count, but a lower cost reverb pedal that fits in a 125B.

## LAYOUT





## BOM

### Resistors

R1	1M
R2	1k
R3	1M
R4	10k
R5	22k
R6	10k
R7	10k
R8	15k
R9	4.7k
R10	10k
R11	10k
R12	18k
R13	10k
R14	10k
R15	10k
R16	10k
R17	4.7k
R18	22k
R19	15k
R20	39k
R21	39k
R22	82k
R23	22k
R24	22k
R25	39k
R26	22k
R27	220Ω
R28	100k
R29	10k
R30	10k
CLR	4.7k

### Capacitors

C1	100n
C2	22n
C3	15n
C4	10n
C5	2.2μ
C6	47μ

C7	100n
C8	100n
C9	100n
C10	100n
C11	1μ
C12	1n
C13	47μ
C14	100n
C15	100n
C16	100n
C17	100n
C18	1μ
C19	10n
C20	2.2n
C21	100n
C22	10μ
C23	47n
C24	220n
C25	10μ
C26	10μ
C27	100μ
C28	100μ
C29	100n

### Semiconductors

D1	1N5817
IC1	TL074
IC2	PT2399
IC3	PT2399
LED	3 or 5mm LED
REG1	7805

### Electromechanical

Dwell	C10k
Mix	B50k

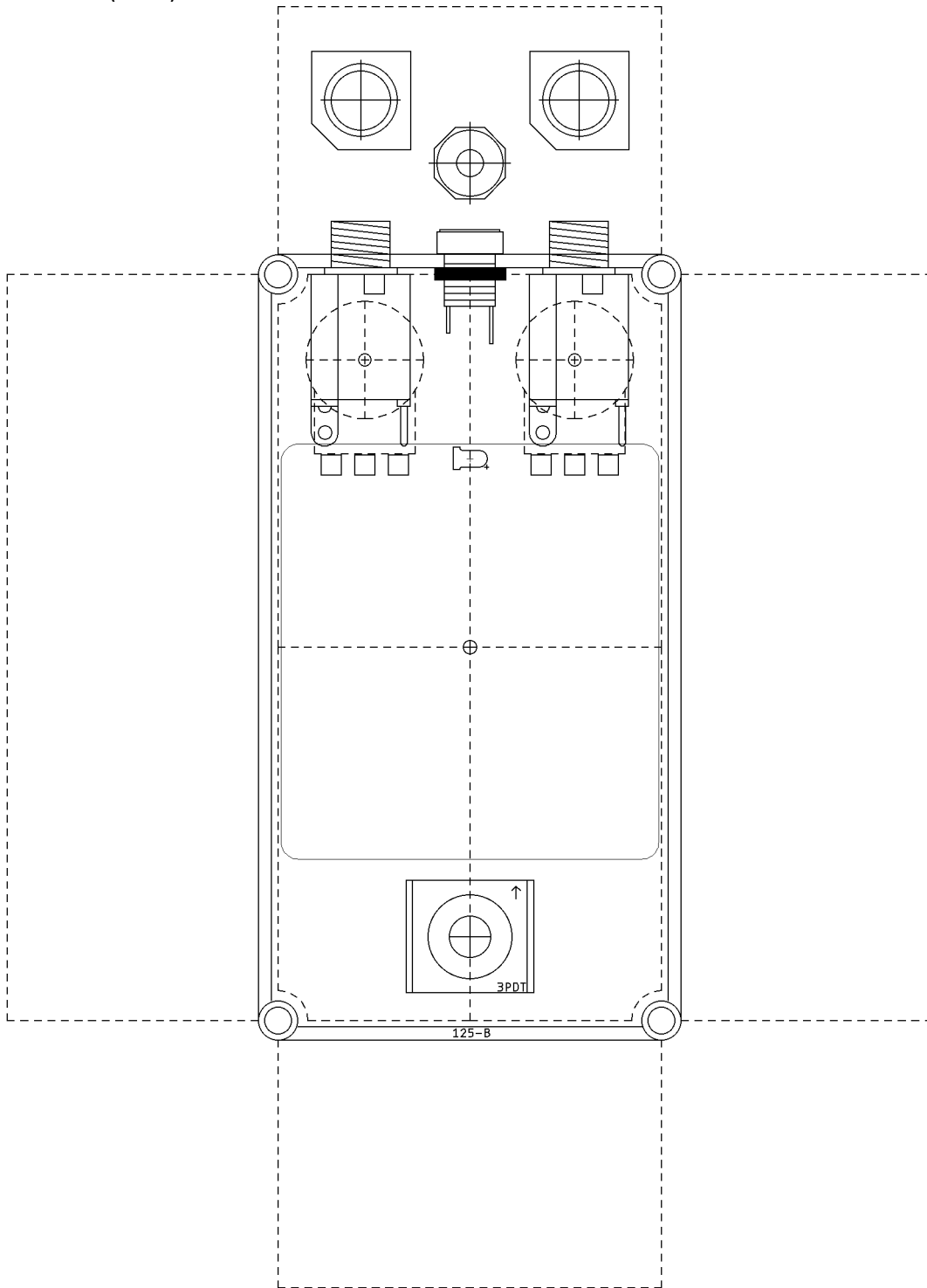
### Note

If you want to experiment with the delay times, adjust the values of R9 and R12. Don't go below 2.2k to avoid locking up the PT2399s.

## SHOPPING LIST

Value	Type (suggested)	Quantity
220Ω	¼ watt metal or carbon film	1
1k	¼ watt metal or carbon film	1
4.7k	¼ watt metal or carbon film	3
10k	¼ watt metal or carbon film	11
15k	¼ watt metal or carbon film	2
18k	¼ watt metal or carbon film	1
22k	¼ watt metal or carbon film	5
39k	¼ watt metal or carbon film	3
82k	¼ watt metal or carbon film	1
100k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	2
1n	Film	1
2.2n	Film	1
10n	Film	2
15n	Film	1
22n	Film	1
47n	Film	1
100n	Film	11
220n	Film	1
1μ	Film	2
2.2μ	Electrolytic (25v+)	1
10μ	Electrolytic (25v+)	3
47μ	Electrolytic (25v+)	2
100μ	Electrolytic (25v+)	2
1N5817	Schottky rectifier diode	1
TL074	Quad op-amp	1
PT2399	Delay chip	2
LED	3 or 5mm LED	1
7805	5v regulator	1
B50k	16 mm right angle PC mount	1
C10k	16 mm right angle PC mount	1

**DRILL TEMPLATE (125B)**



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