



# Mariana Trench Delay

Build Document



## Introduction

This is based on the Deep Blue Delay, but designed to fit nicely in a 1590A.

If you want to put this in a 1590A, for a drill template, I suggest the [Baby Board Guide](#) from [Mad Bean Pedals](#).

## Bill of Materials

### Resistors

P/N	Value	Notes
R1	1M	
R2	180k	
R3	360k	
R4	22k	
R5	12k	
R6	1k	
R7	33R	
R8	10k	
R9	10k	
R10	1k	
R11	20k	
R12	10k	
R13	10k	
R14	10k	
R15	5k1	
R16	2k	
R17	20k	
R18	2k7	
R20	10k	
R21	10k	

### Diodes

I obtained all of my diodes from Tayda.

P/N	Value	Notes
D1	1N400x	Polarity protection.



## Capacitors

I obtained all of my caps from Tayda.

P/N	Value	Type	Notes
C1	22n	Film Box	
C2	100u	Aluminum Electrolytic	16V. Lay it down.
C3	1u	MLCC	
C4	1u	MLCC	
C5	1u	MLCC	
C6	4n7	Film Box	
C7	2n2	Film Box	
C8	2n2	Film Box	
C9	100n	Film Box	
C10	100n	Film Box	
C11	15n	Film Box	
C12	10n	Film Box	
C13	22n	Film Box	
C14	1u	MLCC	
C15	47n	Film Box	
C16	47p	Ceramic	
C17	100n	Film Box	
C18	100n	Film Box	
C19	47u	Aluminum Electrolytic	16V. Lay it down.
C20	100p	Ceramic	
C21	47u	Aluminum Electrolytic	16V. Lay it down.
C22	47u	Aluminum Electrolytic	16V. Lay it down.

## Integrated Circuits

I obtained all of my integrated circuits from Tayda.

P/N	Value	Notes
IC1	TL072	
PT2399	PT2399	These ICs are hit-or-miss. You may want to order a few extra just in case.

## Transistors

I obtained all of my transistors from Tayda.

P/N	Value	Notes
U1	78L05	5V voltage regulator



## Potentiometers

I obtained all of my potentiometers from Tayda.

P/N	Value	Notes
<b>DELAY</b>	B50k	If wanting to do a 1590A, I recommend <a href="#">this one</a> with offboard wiring.
<b>FDBK</b>	B50k	If wanting to do a 1590A, I recommend <a href="#">this one</a> with offboard wiring.
<b>MIX</b>	B50k	If wanting to do a 1590A, I recommend <a href="#">this one</a> with offboard wiring.



# Schematic

