

## Buchla pulse generator

The Buchla pulse generator turns non-Buchla gate signals (+5V to +15V) into the typical Bucha pulse required for proper behaviour of the 208's sustained/transient envelope switch.

The circuit works with +/-12V or +/-15V.

No calibration is required.

The LED resistor should be selected on test according to the desired brightness. 10K is a good value to start with. The LED monitors the incoming gate signal and can be omitted.

The board can be soldered directly to a Cliff minijack socket and installed to a boat or panel or mounted with a screw (3.2mm mounting hole). If the minijack is not used, the input should be wired to the in pad.

The output can be wired either directly to a module's pulse input (typically the 208) or to a banana socket.

If the circuit struggles to fire a module, reduce the 6k2 resistor value to 4k7 to slightly increase the pulse output.

Thank you and happy building !

### **Disclaimer**

*This circuit is tested and safe as long as built and used as it should. I assume no liability for issues, damages, accidents... Double check the output before connecting it to a module for the first time. Build and installation is at your own risk and should only be done by people experienced in electronics who know what they're doing. If in doubt, don't do it.*

### **BOM**

Part	Quantity	Supplier suggestion
		The parts are also available from other suppliers
<b>Resistors</b>		<a href="#">Tayda</a>
220 ohms	1	
1k	1	
6k2 or 4k7	1	
6k8	1	
10k	3 (1 SOT for optional LED)	
20k	1	
<b>Capacitors</b>		
4.7nF film	1	<a href="#">Tayda</a>
100nF multilayer ceramic	2	<a href="#">Tayda</a>
<b>Diodes</b>		
3.6V Zener	1	<a href="#">Tayda</a>
Schottky or 1N4148 or 1N457	1	<a href="#">Tayda</a>
3mm LED	1 (optional)	<a href="#">Tayda</a>
741 opamp	1	<a href="#">Tayda</a>
DIP8 IC socket	1	<a href="#">Tayda</a>
Cliff CL1384 mono jack socket PC mount	1 (optional)	<a href="#">TME</a>

