

# MicroFab Strobe Driver

## User Guide

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The MicroFab Strobe Driver is designed to pulse an LED following a TTL timing signal input for the purpose of stroboscopic illumination. The output signal is in the order of 7-10  $\mu$ s long and can be delayed by connecting a potentiometer (10 k $\Omega$  10 turn) to the "Delay" connector. A zero delay requires a 0  $\Omega$  (i.e., short) across this connector; with nothing connected, no pulses will be produced.

### *Specifications:*

Input signal:	TTL, 2.5-5 V positive, 1 $\mu$ s or longer, only the rising flank is relevant.
Output signal:	7-10 $\mu$ s, suitable for "Jumbo Hi Brightness LED" model no. 276-086 of Radio Shack, or equivalent
Delay:	Connect a 10 k $\Omega$ 10 turn potentiometer, e.g., Bourns 3540S-1-103, or equivalent; 0 $\Omega$ (short) gives no delay, no connection prevents output.
Power:	5 V, a suitable supply is included.

This strobe driver will work with the Strobe TTL signals from the MicroJet™ III controller. The MicroJet™ III contains a programmable delay already; thus a short across the Delay connector of the strobe driver can be used without giving up on delay capability. The potentiometer-controlled delay adds on top of the one set in the controller.

In case of problems with the strobe driver, contact (preferably via e-mail):

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