

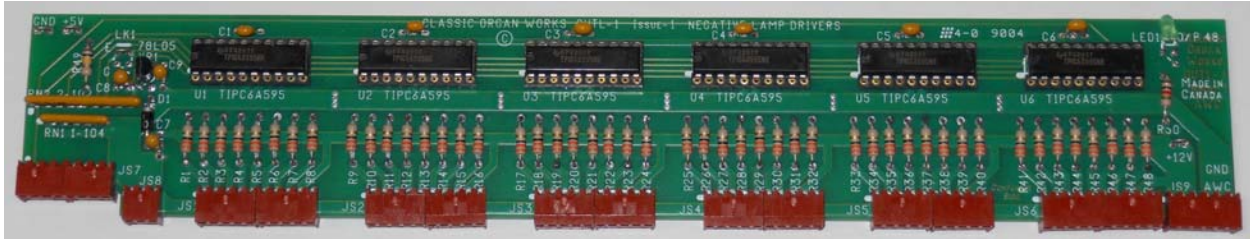
# Classic Organ Works

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## OUTL-1 Lamp Driver Board



### Description

The Classic Output Driver Board (OUTL-1) accepts standard Classic serial data and uses it to turn the appropriate output pins on or off for applications requiring only lamps. For example, a bargraph indicator.

The board has 48 negative-going outputs for active-low lamps and is intended to be used in the CCU and PCU units ('Grey Boxes') as well as the MCU-1.

Its outputs are NOT protected against inductive back-emf so it should not be used to drive relays or magnets.

All outputs have series resistors to limit the in-rush current of incandescent lamps. While these are typically 33 Ohms, other values may be fitted for driving LEDs, etc.

A large capacitor on the supply line permits high-current pulsed loads if all outputs are activated together.

Supply voltage range +7V to +35V, nominally +12V.

### Features

- Active-low drive outputs.
- 48 unprotected outputs for use with LEDs or incandescent lamps.
- Output loads typically 40 mA.
- Two 'Stop On' LEDs.
- Approximate dimensions:  
10.15" x 1.85" x 0.6" (w x h x d)

### Applications

While the MIDI Output Board is intended to be used by organ-builders, it can also be used to operate incandescent lamps or LEDs for other applications such as model railroad systems.

Organ-builders typically use the OUTL-1 Board in a packaged system (CCU) to operate lamps on a console.