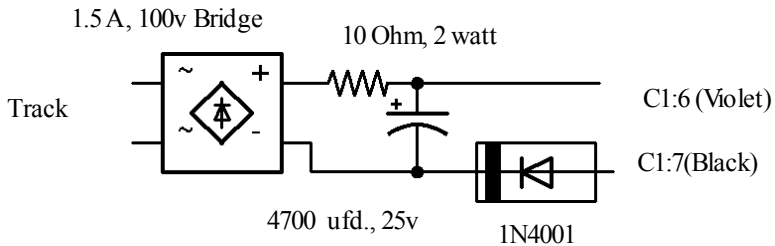




# Dirty Track Filter

## for P5 Sound Boards.

The following circuit will sustain power to the P5 sound system longer than the on board capacitors. This will alleviate problems caused by power interruptions due to dirty track. The resistor limits the turn on current so that the device will not look like a short circuit when track power is turned on. The diode insures that capacitor charging comes from the bridge with the filter and not the rectifiers on the P5. Larger capacitors can be used but at some point it makes more sense to deal with the dirty track problem.



If you are going to build your own circuit, you will need to request the wires that plug into the C1 connector at positions 6 and 7.

The unassembled kit includes the following (Digi-Key numbers):

P5159-ND FOR THE CAPACITOR

W01G-E4/1GI-ND FOR THE RECTIFIER

PPC10W-2CT-ND FOR THE RESISTOR

455-1709-ND FOR THE MALE END [JST "B7B-PH-K-S(LF)(SN)"]

455-1161-ND HOUSING (FEMALE END) [JST "PHR-7"]

455-1127-ND CONTACTS (CRIMP ON WIRE ENDS) [JST "SPH-002-P0.5S"]

1N4001DICT-ND 50V 1A. DIODE - AXIAL.



Plug and Play version - final assembly is covered in 3/4" shrink tubing.