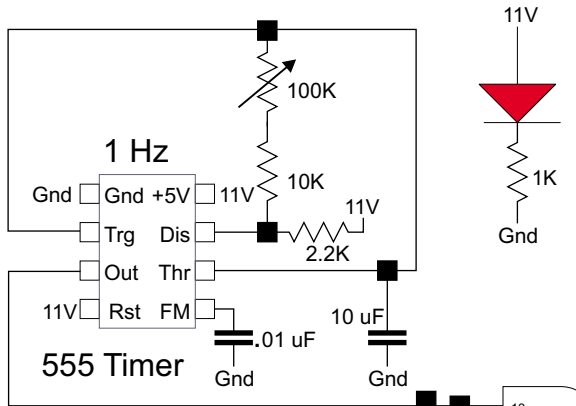
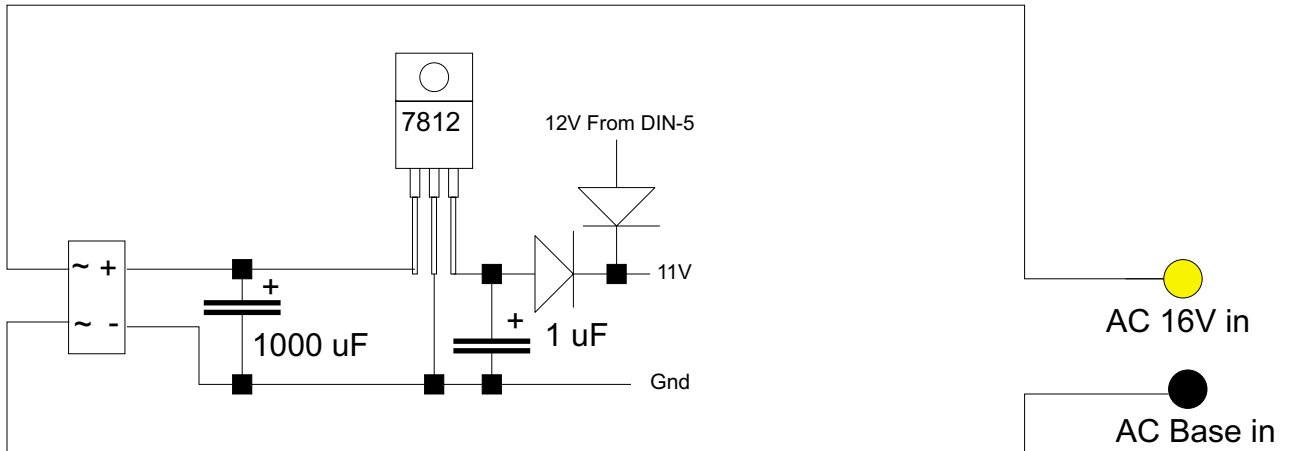


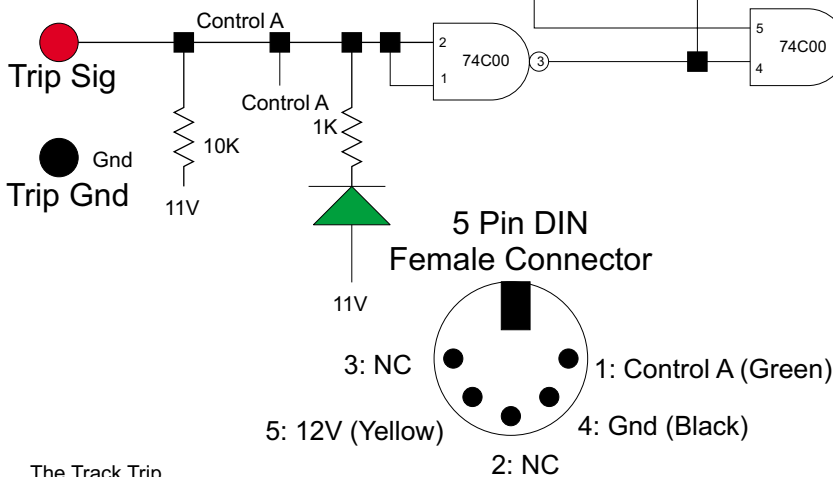
RAILROAD CROSSING LIGHTS CONTROL CIRCUIT FOR AMERICAN FLYER 760 HIGHWAY FLASHER

Norbert Doerry
December 27, 2005

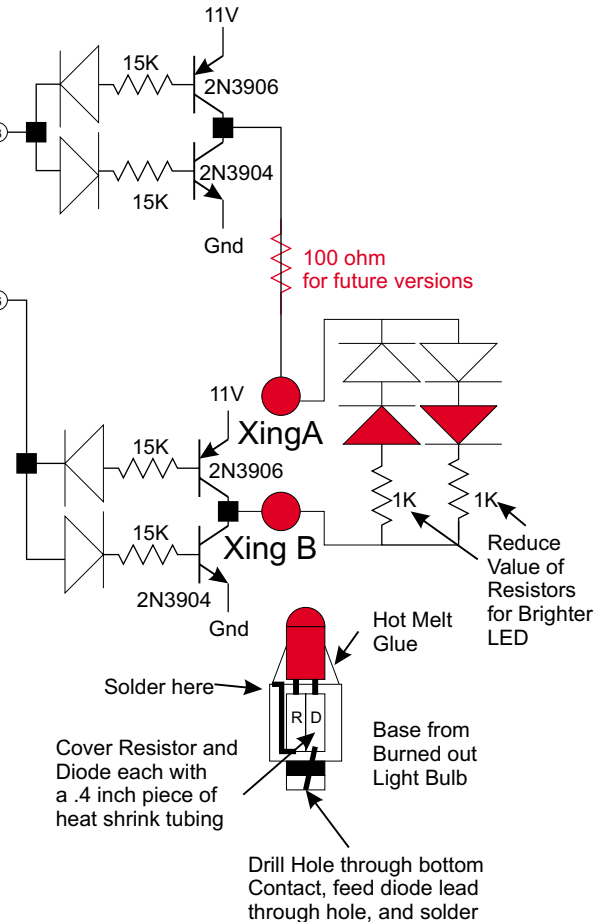


NOTE: 15K Resistors should limit Xing short circuit current to below 200 ma. This should prevent damage for short duration shorts. Extended shorts will result in the transistors exceeding their thermal power dissipation limits. Future Versions should consider inserting a 100 ohm resistor in series with XingA to limit short circuit current to 100 ma and minimize short circuit power dissipation in the transistors.

NOTE: Measurements at B&O Museum on June 24, 2002 indicate the clock should have a period of 1.35 seconds or 0.74 Hz. (27 seconds for 20 flashes)



The Track Trip should have no electrical connection to the track. Suggest use of 697 Pressure type track trip (contacts 1 and 3)



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December 28, 2005

