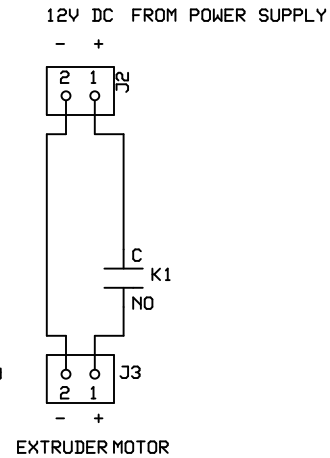
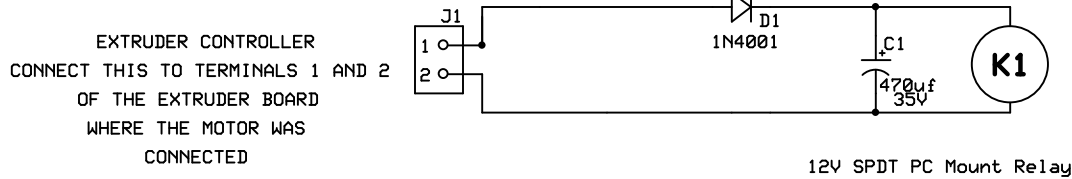


WHAT EVER THE CAUSES OF THE GLITCHING ON THE EXTRUDER CONTROLLER BOARD WILL BE COMPENSATED FOR BY THE TIME DELAY RESULTING FROM THE CAPACITOR C1 IN PARALLEL WITH THE RELAY COIL K1 THE MOTOR WILL BE ABLE TO START QUICKLY HOWEVER IT WILL TAKE APPROXIMATELY 600ms TO STOP ON PRINTS THAT REQUIRE FREQUENT STOPS OF THE EXTRUDER THERE WILL BE MORE THAN USEUAL ABS IN PLACES THAT WOULD NORMALLY BE SKIPPED OVER

THIS CIRCUIT WILL NOT REVERSE THE MOTOR

I HAVE A RELAY BASED CIRCUIT THAT WILL REVERSE THE MOTOR HOWEVER I HAVE NOT BUILT OR TESTED THE CURCUIT AS OF YET



THE CONNECTORS J1, J2, AND J3 DO NEED TO BE USED THEY ARE FOR REFERENCE ONLY

D1 1N4001 SILICON DIODE

C1 470uF/35V ELECTROLYTIC CAPACITOR

K1 12VDC RELAY 30mA COIL S.P.D.T. CONTACTS

PAD PER HOLE PERF-BOARD

MOUNTING HARDWARE

18 ga. WIRE

Controller Tuning & Design, LLC

ToM Temporary Extruder Fix

Ron Wensley

Rev 1.0

1/5/2011

Relay Control