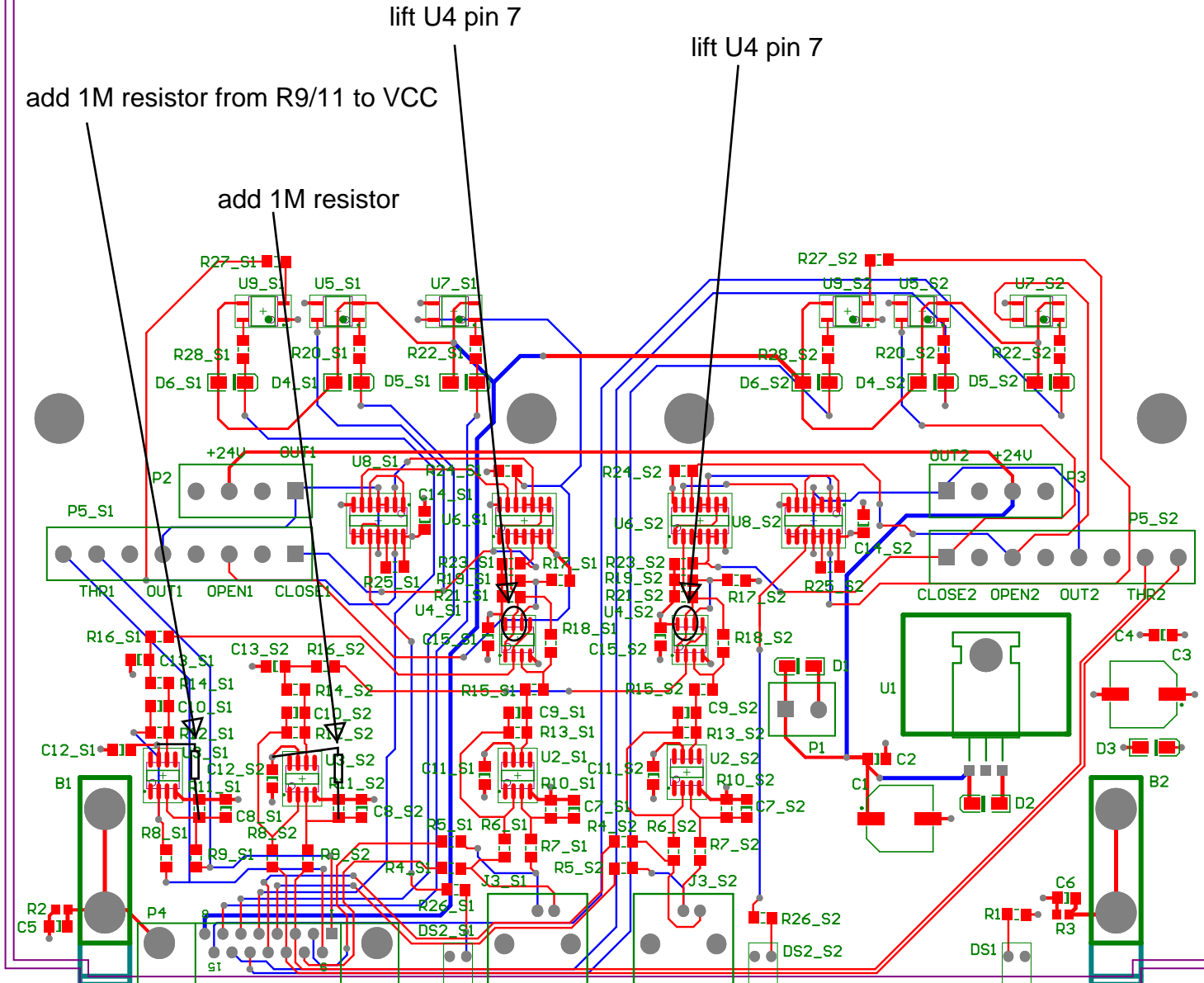D1102312
Rev1/Serial

Shutter Control

LIGO-E1300580-v1

Shutter Controller Modifications:
1. Lift pin of U4 to disable the broken threshold disable feature
2. Add a 1M Ohm resistor at the threshold input to add a small positive offset to the threshold. This will allow the shutter to operate when threshold and trigger are not used and unconnected.

lift U4 pin 7

lift U4 pin 7

add 1M resistor from R9/11 to VCC

add 1M resistor

R27_S1   R27_S2
U9_S1   U5_S1   U7_S1   U9_S2   U5_S2   U7_S2
R28_S1   R20_S1   R22_S1   R28_S2   R20_S2   R22_S2
D6_S1   D4_S1   D5_S1   D6_S2   D4_S2   D5_S2

+24V   OUT1   OUT2   +24V
P2   U8_S1   R24_S1   R24_S2   U8_S2   P3
C14_S1   C14_S2
P5_S1   U6_S1   U6_S2   P5_S2
THR1   OUT1   OPEN1   CLOSE1   R23_S1   R17_S1   R23_S2   CLOSE2   OPEN2   OUT2   THR2
R25_S1   R19_S1   R21_S1   R21_S2   R19_S2   R25_S2
U4_S1   U4_S2
R16_S1   C15_S1   R18_S1   R18_S2   C15_S2   C4
C13_S1   C13_S2   R16_S2   C3
R14_S1   R14_S2   R15_S1   R15_S2   U1
C10_S1   C10_S2   C9_S1   C9_S2   D3
C12_S1   U3_S1   C11_S1   R13_S1   R13_S2   C11_S2   U3_S2   P1   C2
B1   R12_S1   R12_S2   U2_S1   U2_S2   C1   D2   B2
C12_S2   R10_S1   R10_S2
R11_S1   C7_S1   C7_S2   R11_S2
C8_S1   C8_S2   C6
R8_S1   R8_S2   R5_S1   R6_S1   R4_S2   R6_S2   R7_S2
R9_S1   R9_S2   R7_S1   R5_S2   R1   R3
R2   R4_S1   J3_S1   J3_S2
C5   P4   R26_S1   R26_S2   DS1
DS2_S1   DS2_S2