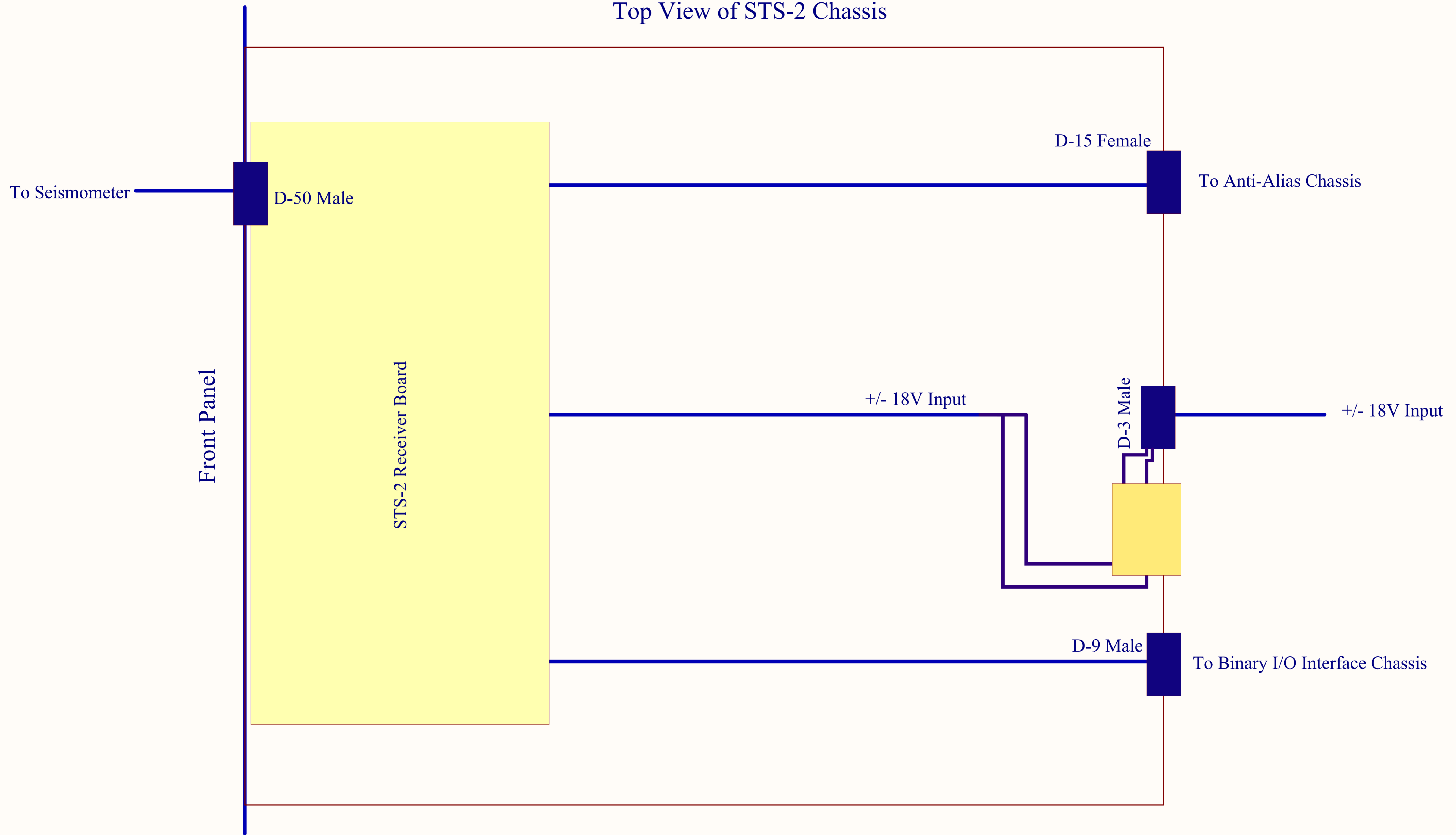
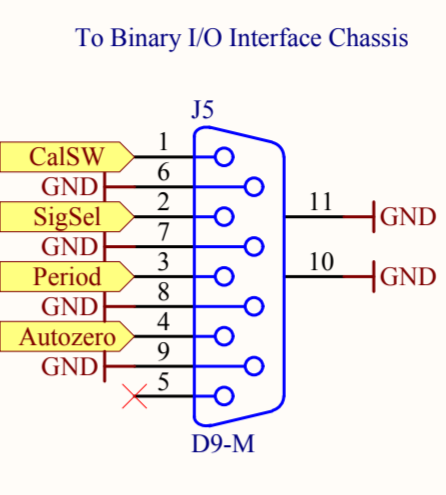
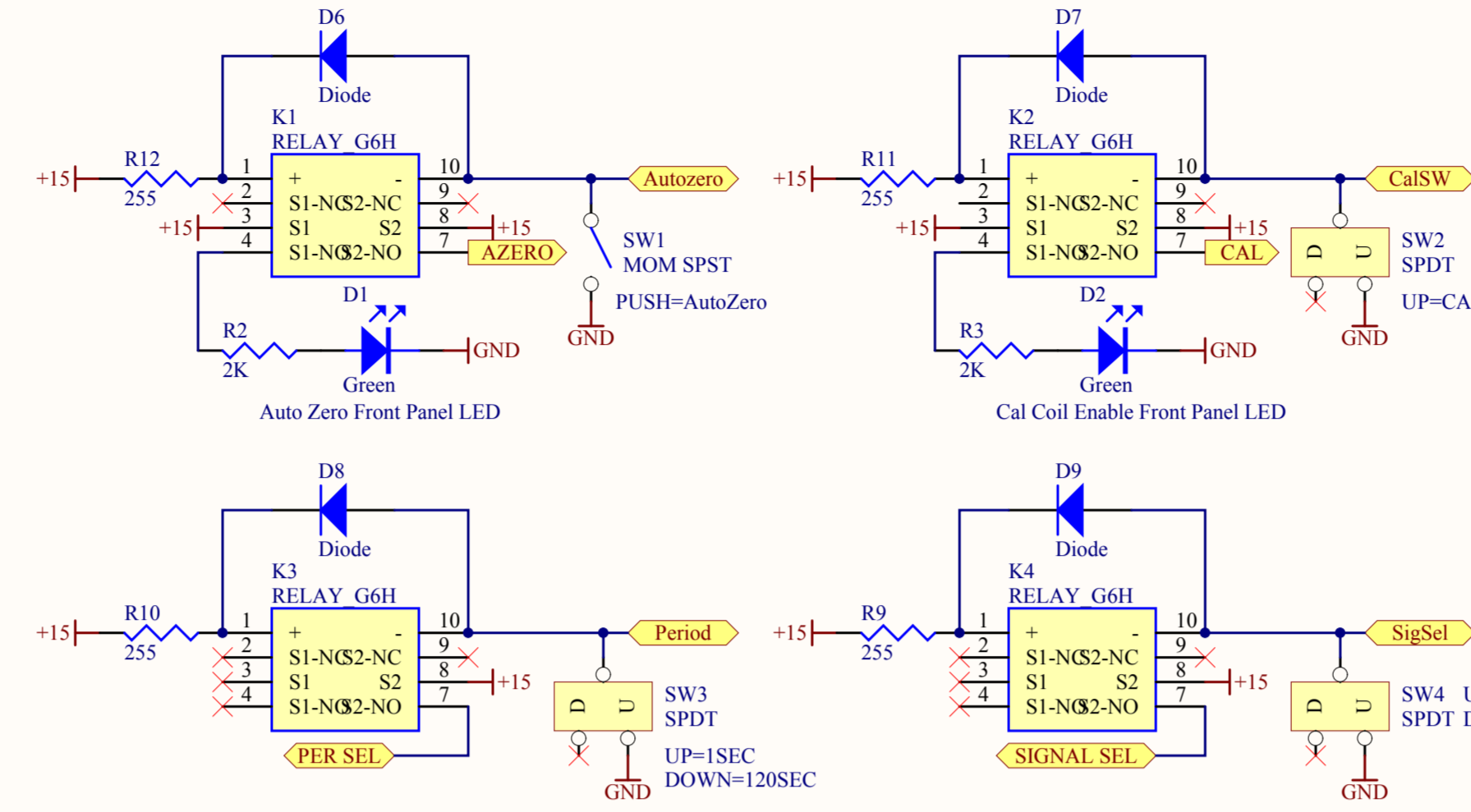
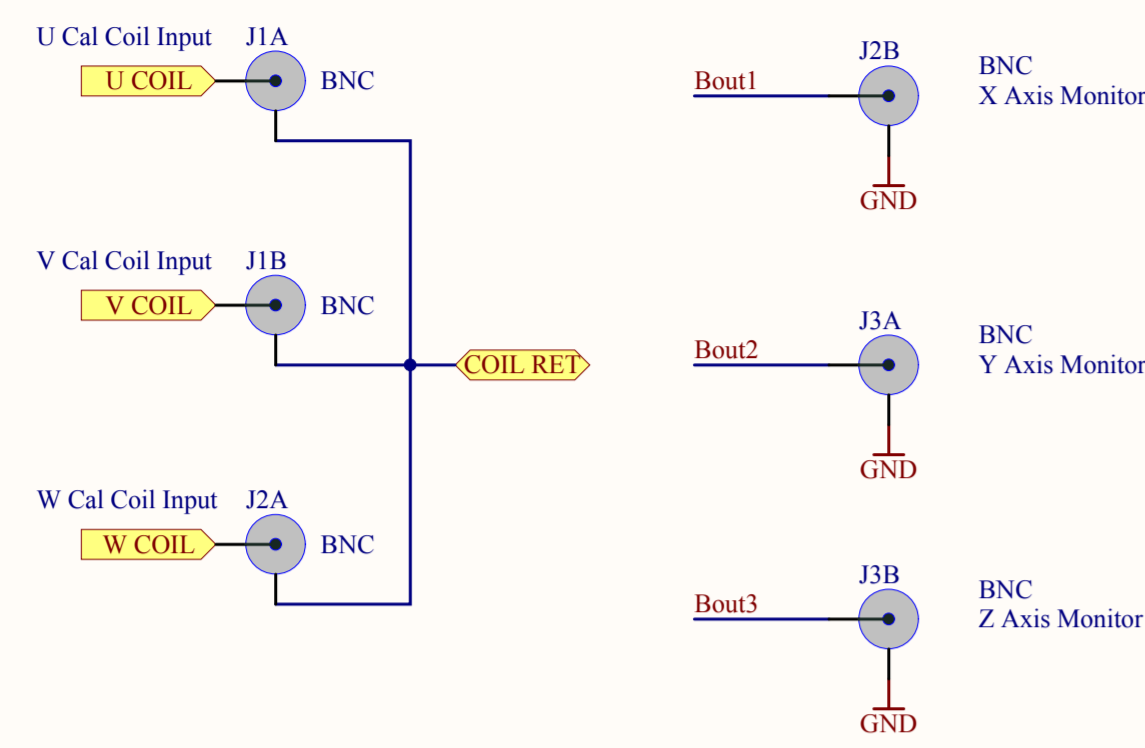


Top View of STS-2 Chassis

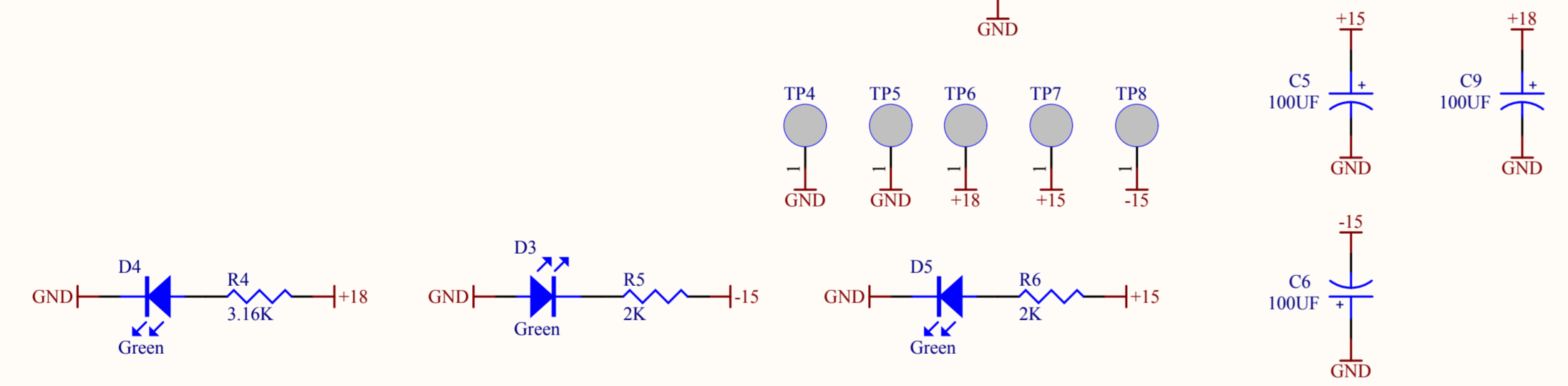
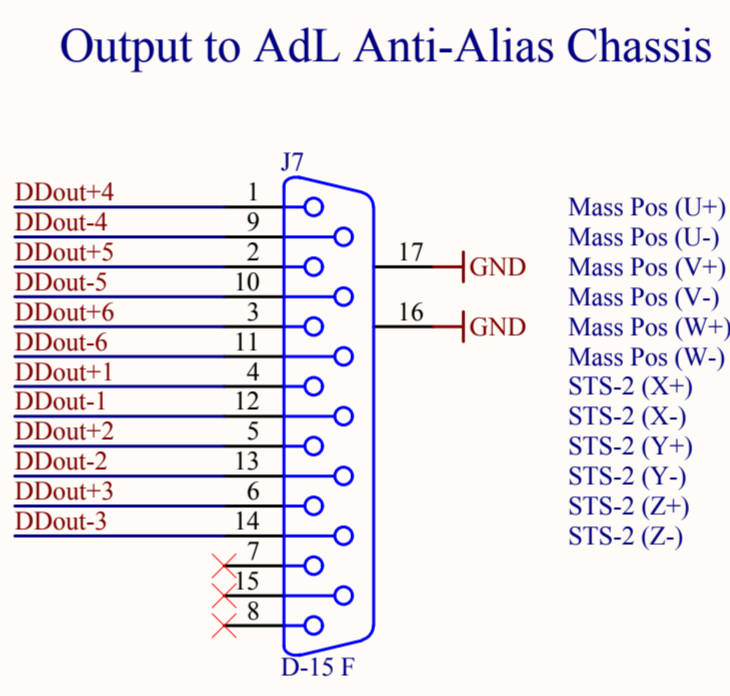
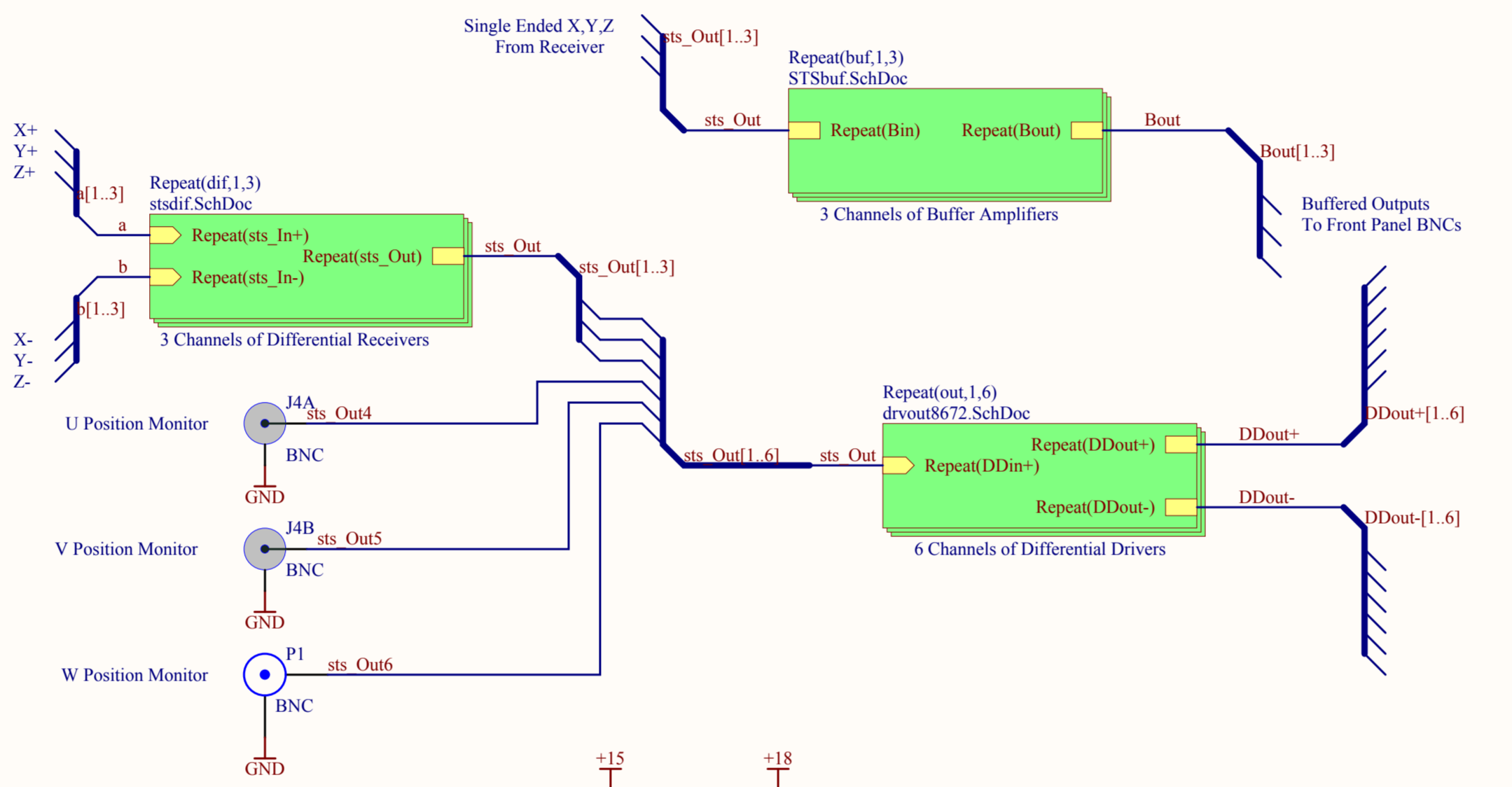
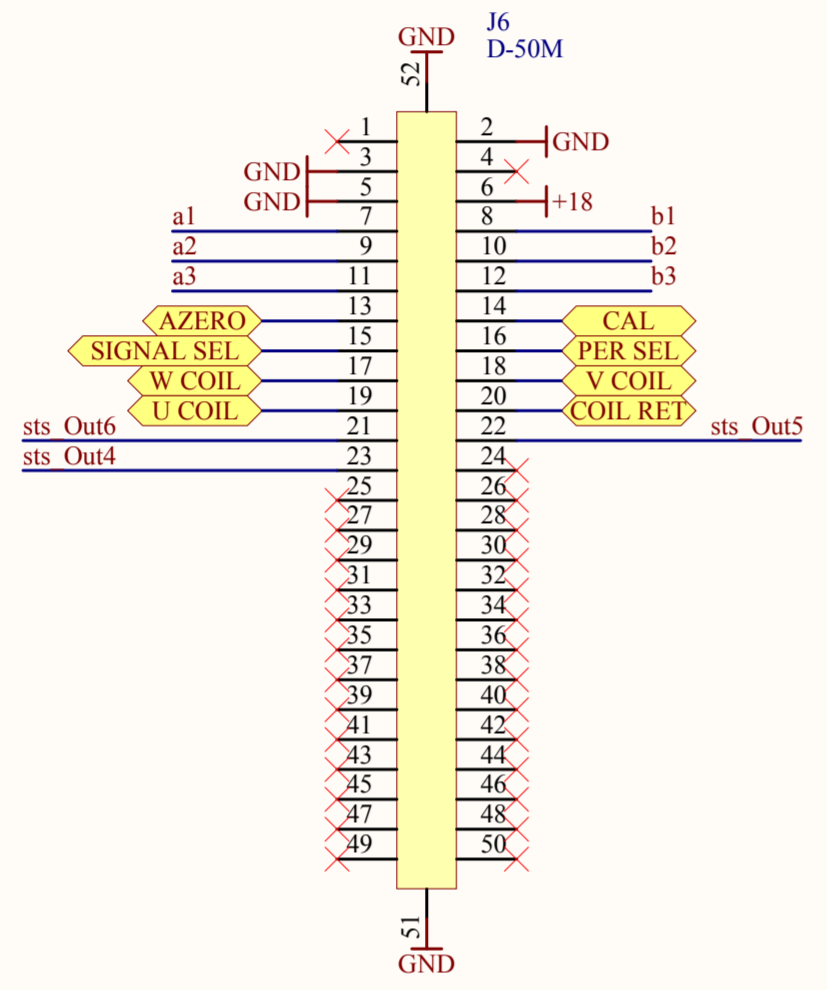


Title		STS-2 Interface Chassis		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D040019	SCH / PCB Revision: v4	Engineer: RS Abbott	Date: 5/7/2009		Time: 11:56:09 AM	
File: Z:\boards\STS-2 Interface D040019 Revv4\Schematics\sts2_chassis.SchDoc				Sheet 1 of 5			

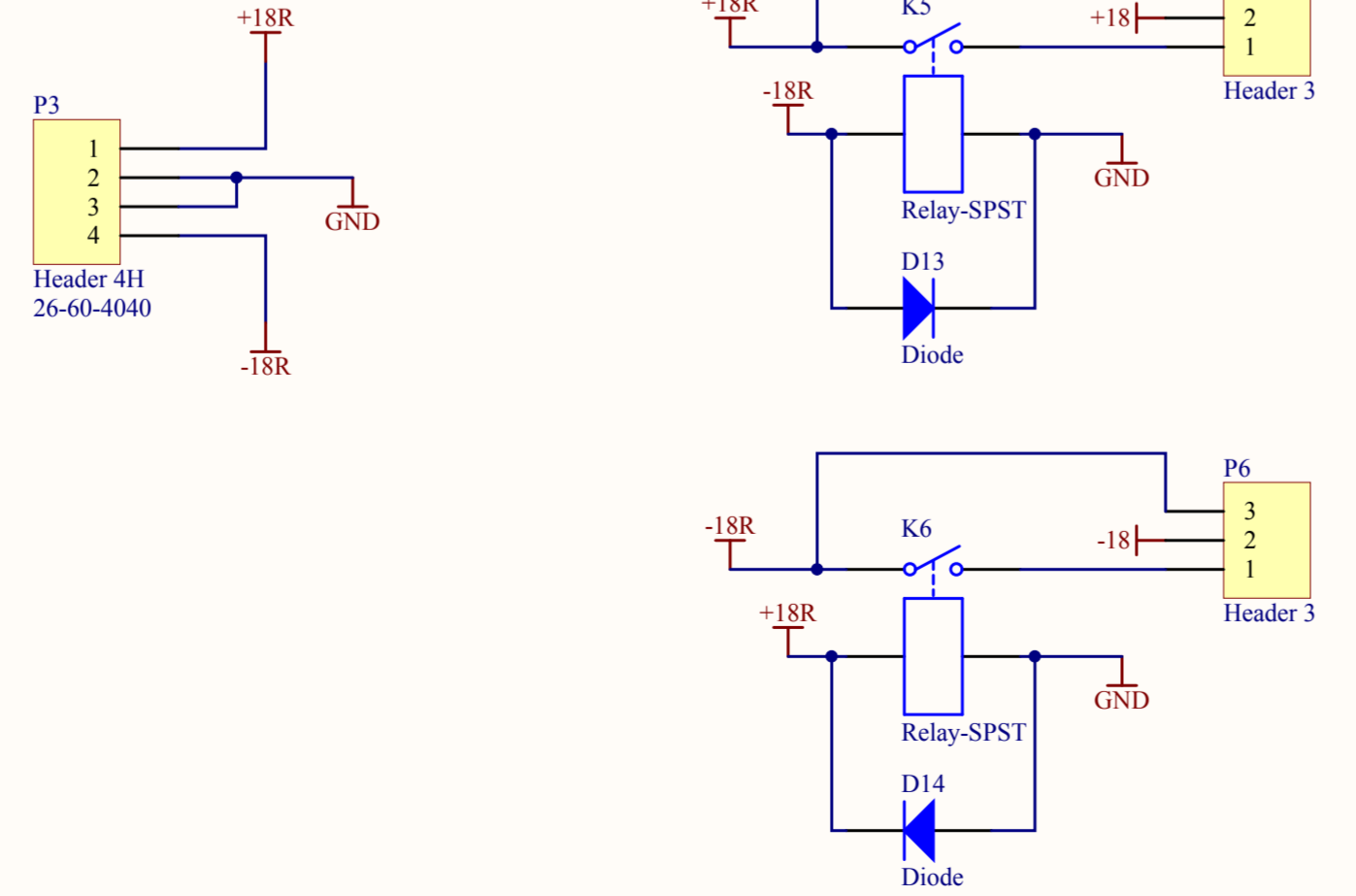


50 Pin Input Connector
Relative to numbers on connector

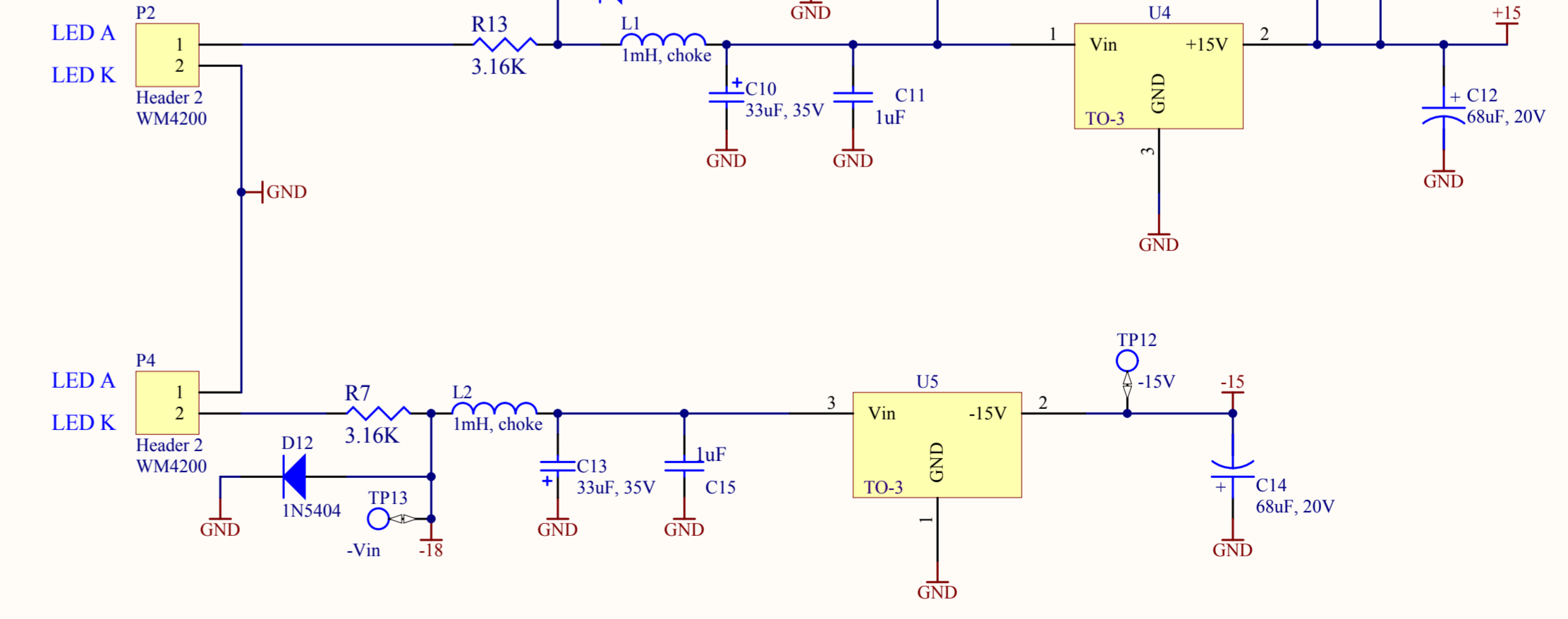
Pin	Function
1	Case Ground (A)
34	Signal Ground (F)
18	Logic Return Ground (S)
2	Unused
35	Power Supply Ground (X)
19	+18V Feed to STS-2 (W)
3	X+ (D)
36	X- (J)
20	Y+ (C)
4	Y- (H)
37	Z+ (B)
21	Z- (G)
5	Autozero Command (E)
38	Calibration Enable (K)
22	Signal Select UVW OR XYZ (L)
6	Select 1 Sec. or 120 Sec. (R)
39	W Cal Coil (P)
23	V Cal Coil (N)
7	U Cal Coil (Q)
40	Cal Coil Return (M)
24	W Position/W+ (U)
8	V Position/V+ (V)
41	U Position/U+ (T)



DC Power Input

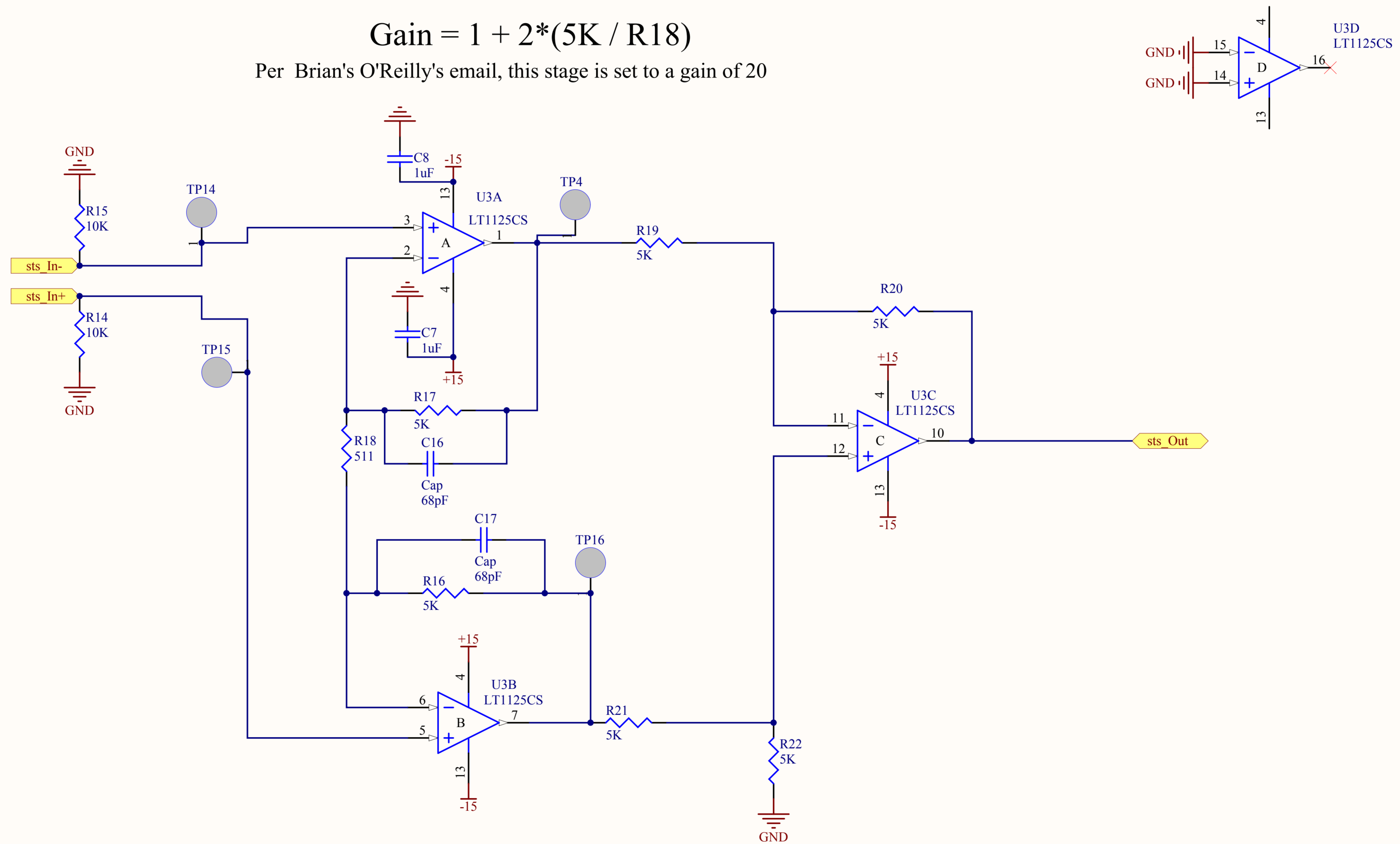



To FP Power Indicators



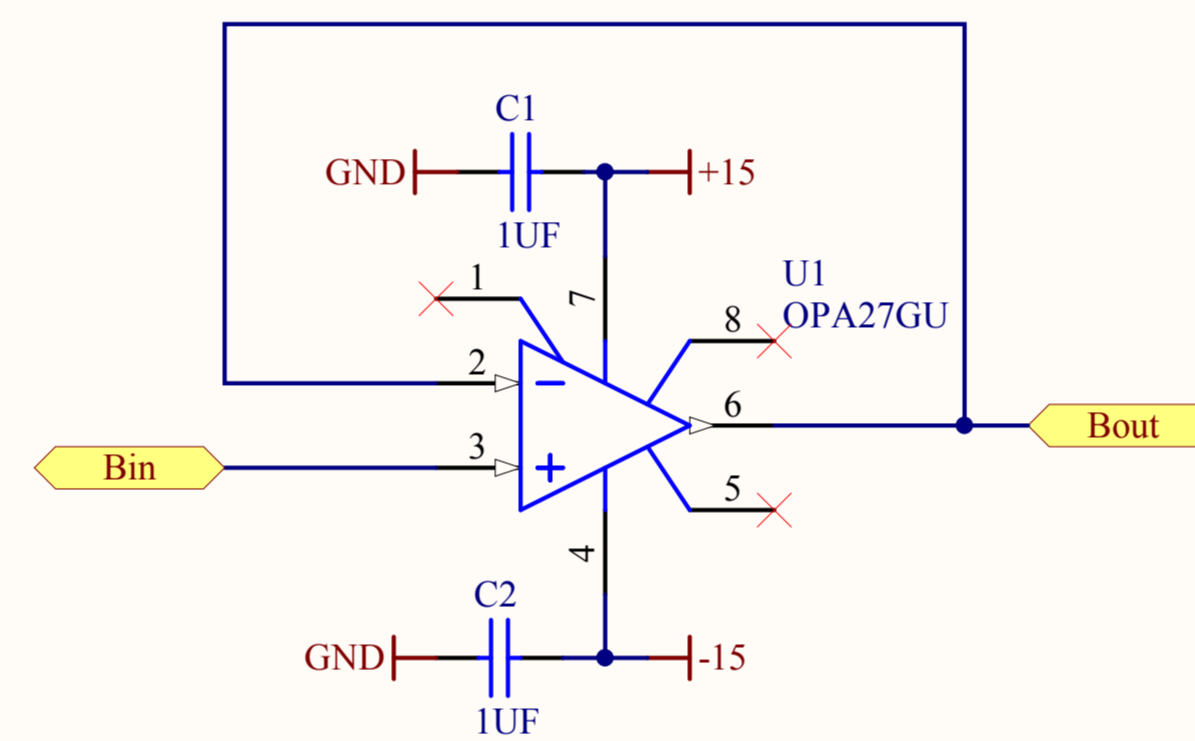
STS-2 X, Y, Z Differential Receiver Details

$\text{Gain} = 1 + 2 \cdot (5\text{K} / \text{R18})$
 Per Brian's O'Reilly's email, this stage is set to a gain of 20



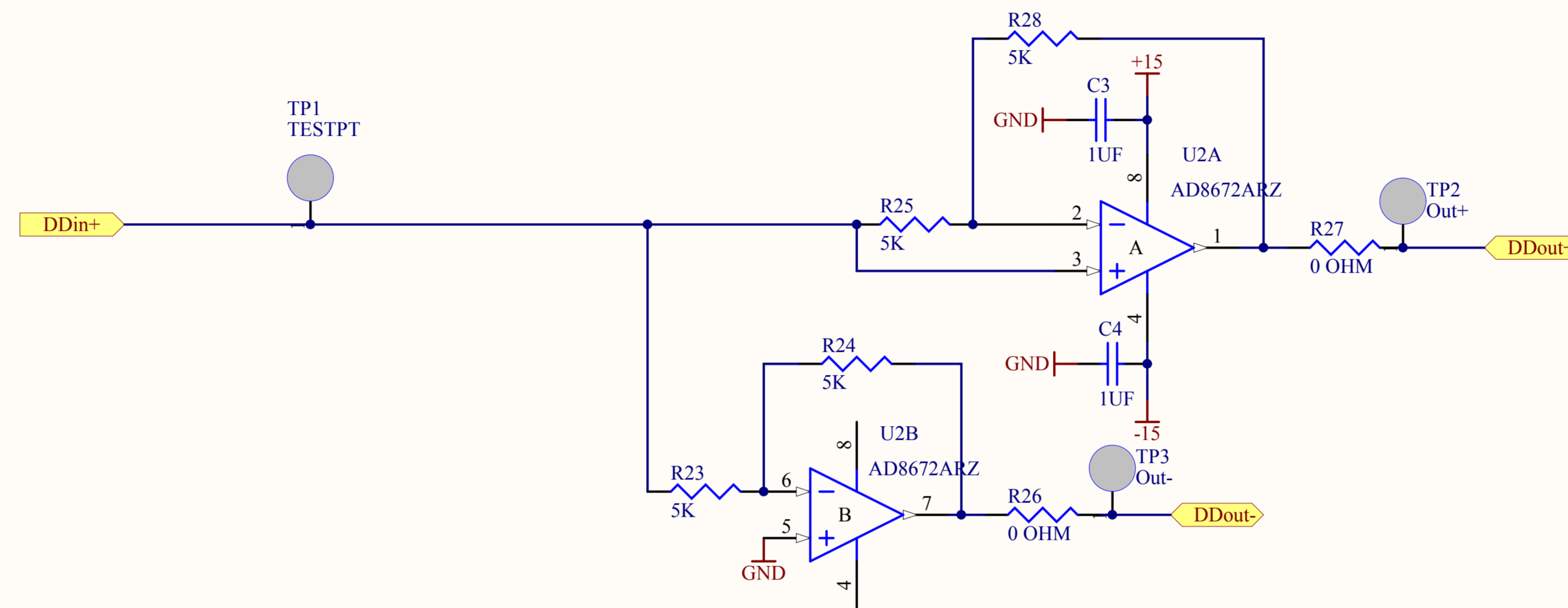
Title		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		
STS2 Differential Receiver				
Size: B	DCC Number: LIGO D040019	SCH / PCB Revision: v4	Engineer: RS Abbott	Date: 5/7/2009
File: Z:\boards\STS-2 Interface D040019 Revv4\Schematics\stdif.SchDoc				Time: 11:56:10 AM
				Sheet 3 of 5

STS-2 Buffer Amplifier Details



Title		<i>STS2 Buffer Amplifier</i>		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: LIGO D040019	SCH / PCB Revision: v4	Engineer: RS Abbott	Date: 5/7/2009			
File: Z:\boards\STS-2 Interface D040019 Revv4\Schematics\STSbuf.SchDoc				Time: 11:56:10 AM			
				Sheet 4 of 5			

STS2 Output Differential Driver Details



Title		STS2 Differential Driver		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: LIGO D040019	SCH / PCB Revision: v4	Engineer: RS Abbott	Date: 5/7/2009		Time: 11:56:10 AM	
File: Z:\boards\STS-2 Interface D040019 Revv4\Schematics\drvout8672.SchDoc				Sheet 5 of 5			

STS-2 INTERFACE BOARD
L160-D040019

SER #

V

