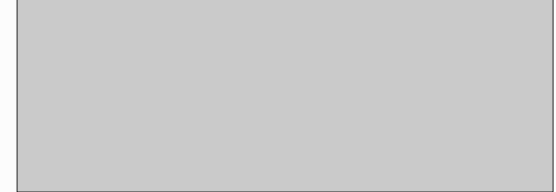


1. Unless otherwise stated:  
Resistors are 250 mW, 1% tolerance.  
Capacitors are 50V, 10% tolerance.

2. Original 1970 design used 62 ohms.  
Newer amps do not have the same current drive capability, so  
the value was increased to 100 ohms for the new design.

REVISION BLOCK			
REV	DESCRIPTION	DATE	INCORP. BY
-	Initial release of reverse engineered platform controller.	6/08	EAW

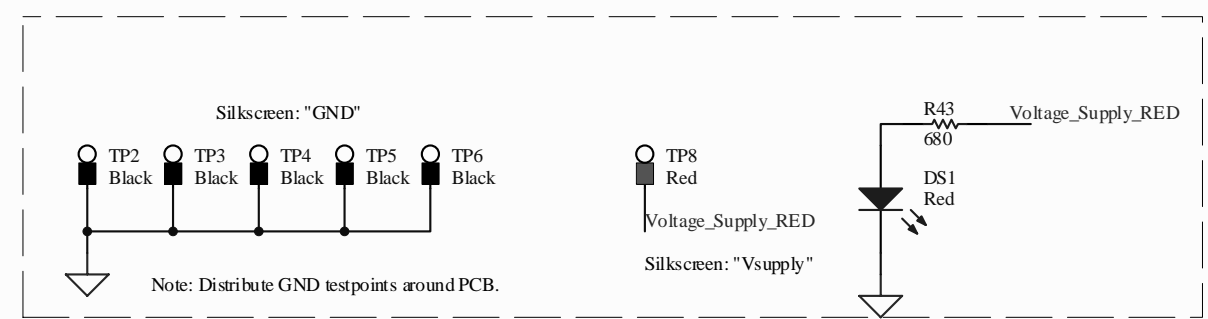
Platform Controller Design  
Platform Controller 1.SchDoc;PSPICE.SchDoc;Platform Controller 2.SchDoc



(Protel Hierarchical representation of design. It's flat.)

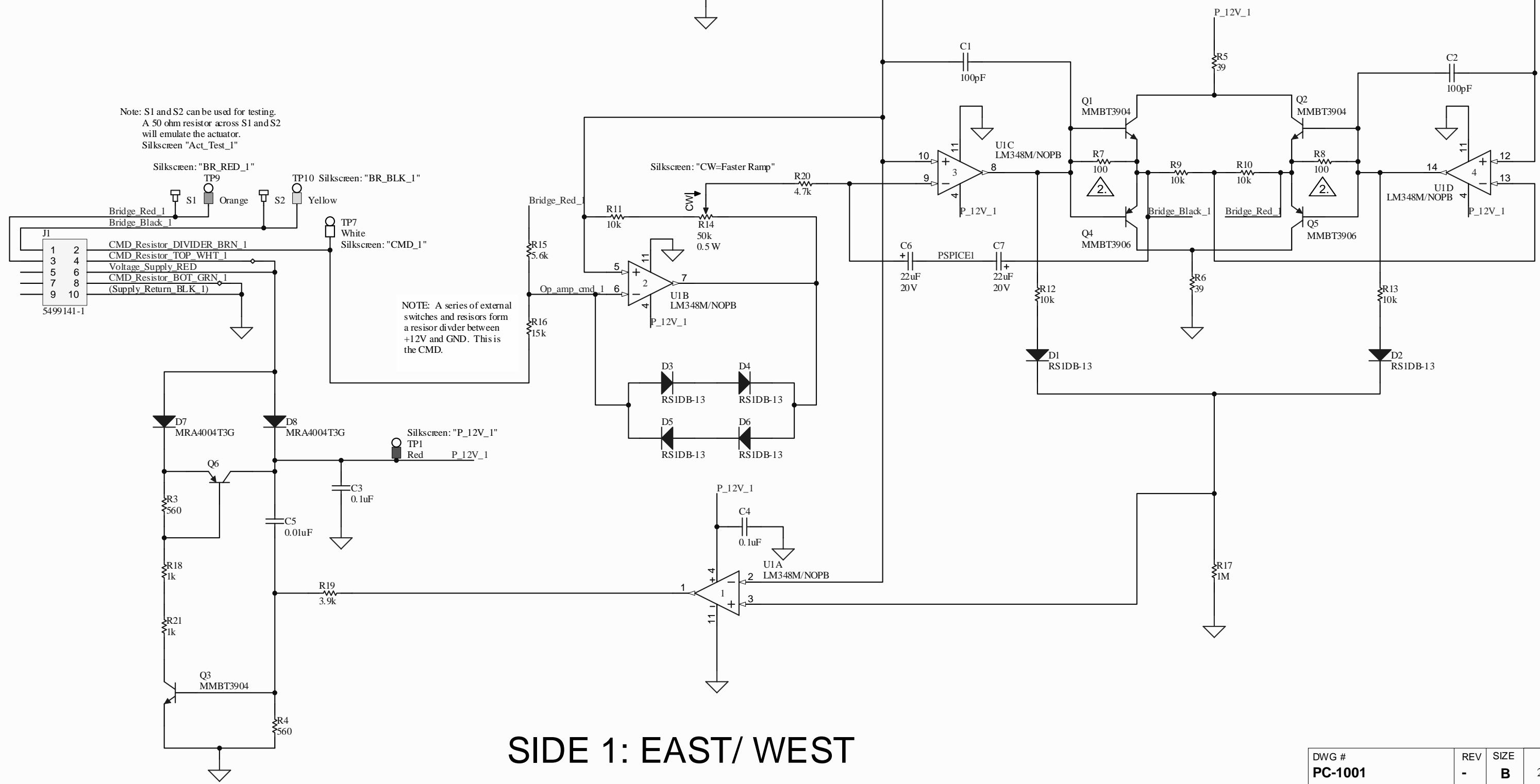
No Physical PCB Components on This Page

		UNIVERSITY OF HAWAII INSTITUTE FOR ASTRONOMY	
DWG #	REV	TITLE	
<b>PC-1001</b>	-	<b>IRTF Platform Controller (Modernized SLI VRC-10)</b>	
ENGINEER E. Warmbier	LAST EDIT 7/18/2008 9:44:43 AM	SIZE <b>B</b>	SHEET 1 of 4
FILE: Z:\Platform Motor Controller\Protel PCB Project\Top Level.SchDoc			

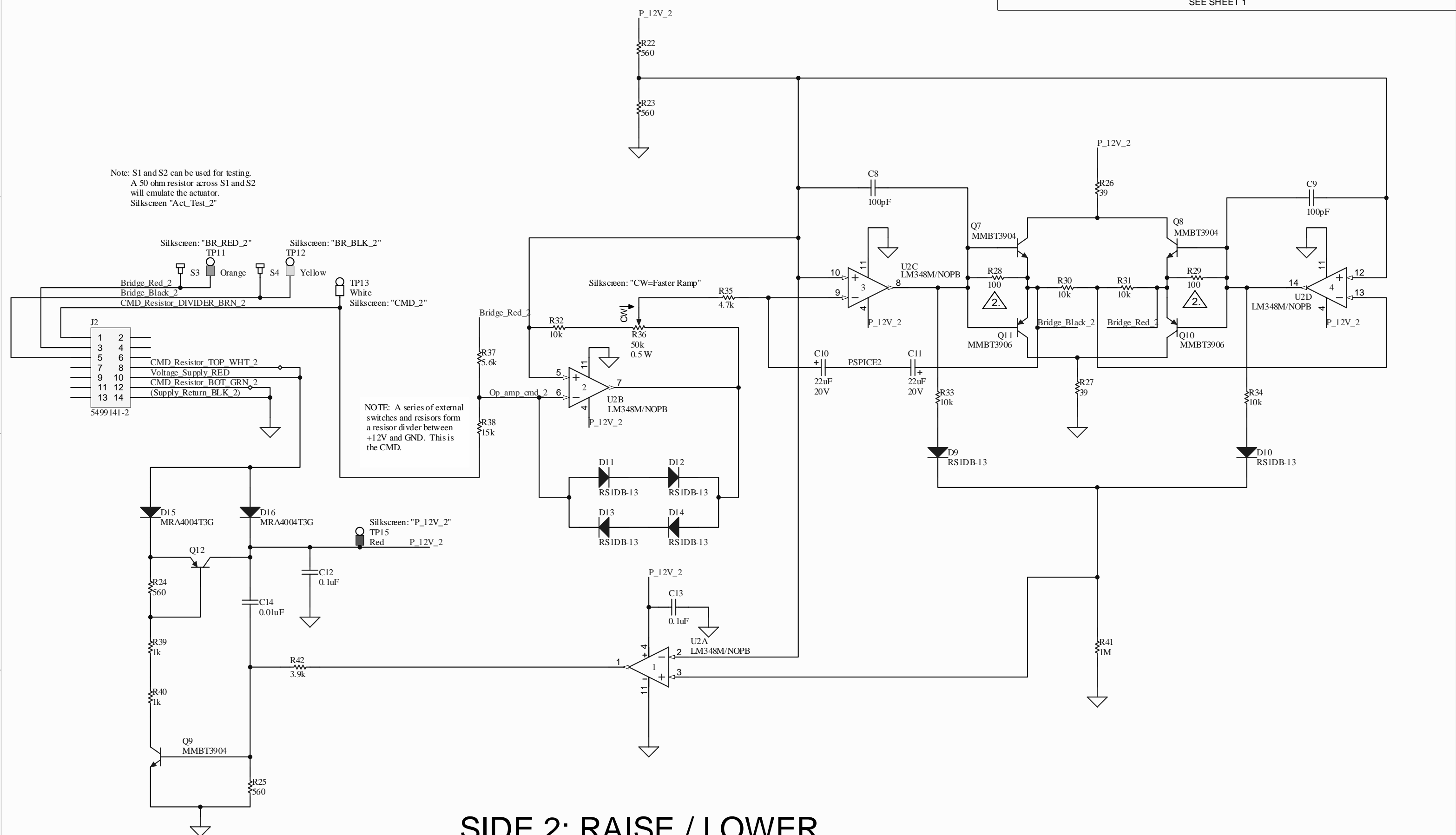


Common to both Side 1 (East/West) & Side 2 (Raise/Lower).

Note: S1 and S2 can be used for testing.  
A 50 ohm resistor across S1 and S2  
will emulate the actuator.  
Silkscreen "Act\_Test\_1"



# SIDE 1: EAST/ WEST



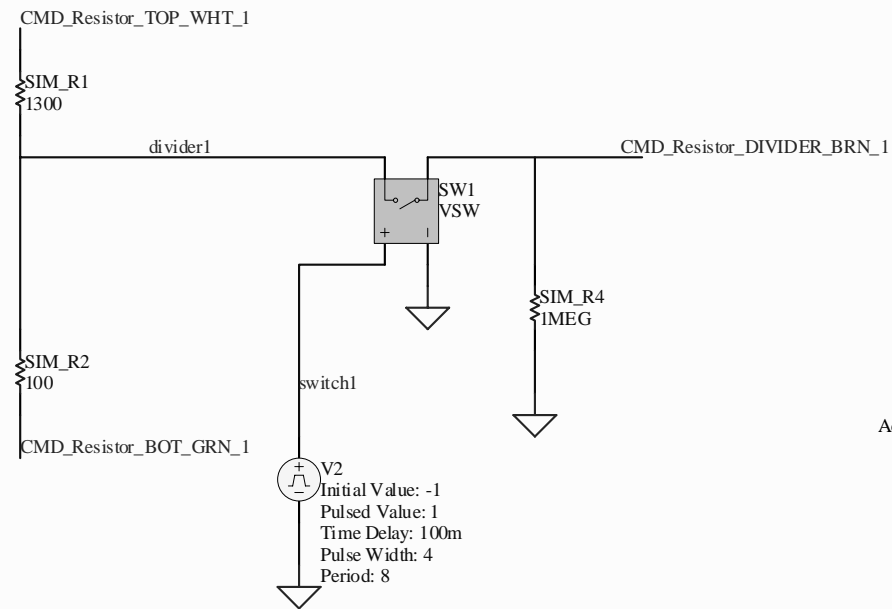
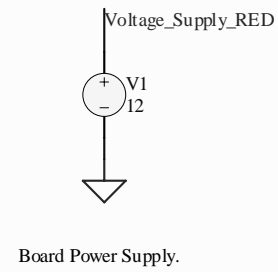
Note: S1 and S2 can be used for testing.  
A 50 ohm resistor across S1 and S2  
will emulate the actuator.  
Silkscreen "Act\_Test\_2"

NOTE: A series of external  
switches and resistors form  
a resistor divider between  
+12V and GND. This is  
the CMD.

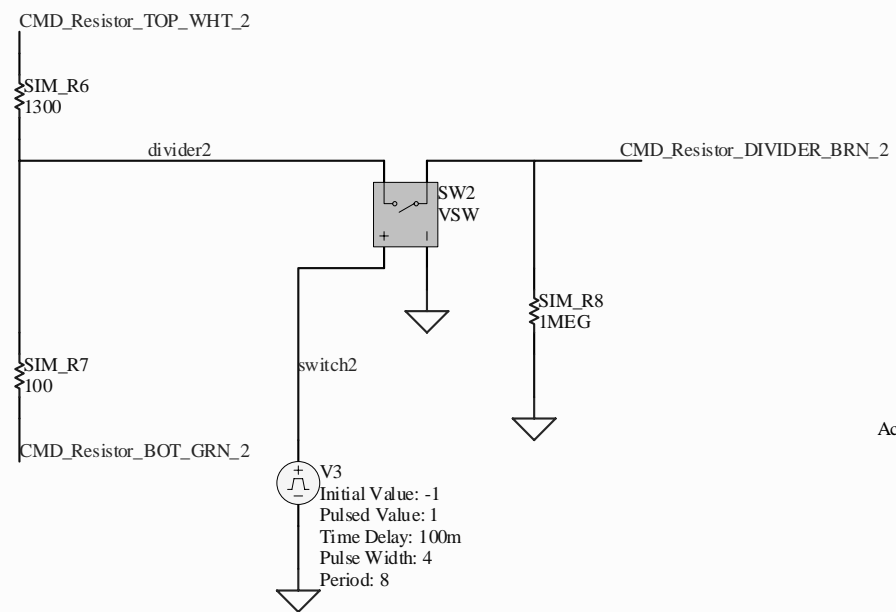
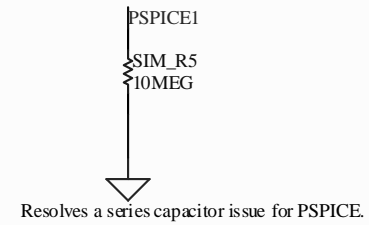
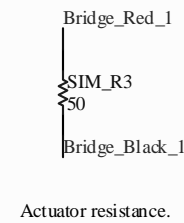
# SIDE 2: RAISE / LOWER

DWG # <b>PC-1001</b>	REV <b>-</b>	SIZE <b>B</b>	SHEET 3 of 4
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**NOTE: This page is for PSPICE simulation only. NO PHYSICAL PCB parts exist on this page.**



Simulates the switches & commands for Platfrom Controller.



Simulates the switches & commands for Platfrom Controller.

