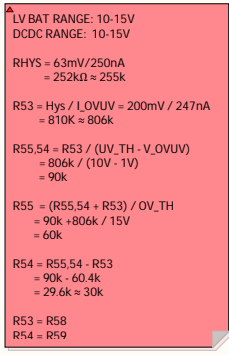
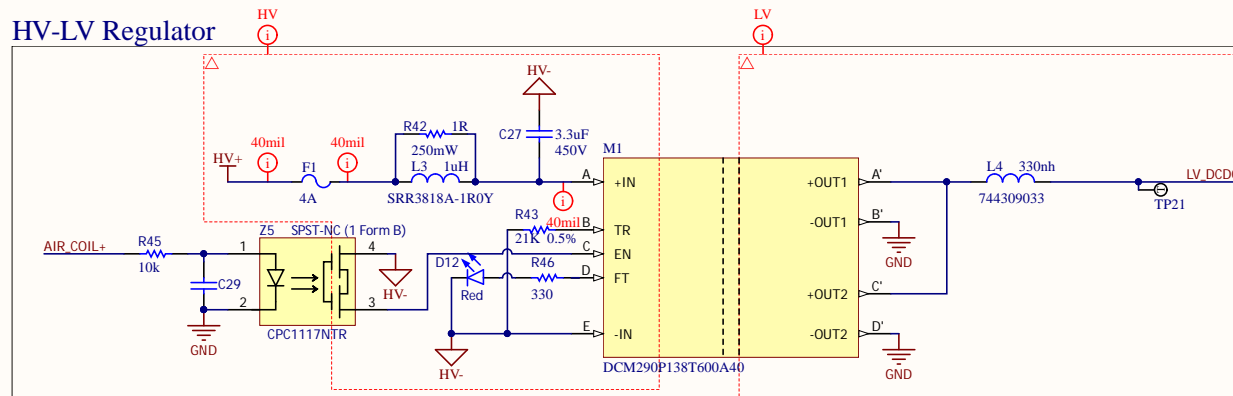


Title Precharge/Discharge		
Designer Jason Sylvestre	Revision 218.1	
Date: 5/22/2018		
File: PrechargeDischarge.SchDoc		

LV
i

The logo for Wisconsin Formula SAE Racing. It features the word "WISCONSIN" in a large, white, serif font with a black outline, set against a black background. Below it, the words "FORMULA SAE" are in a smaller, white, sans-serif font, and "Racing" is in a red, cursive script font. The entire logo is framed by two horizontal white lines.

HV-LV Regulator



TRIM PIN CALCS

$$V_{OUT} = 10.00 + (6.48 \cdot V_{TR}/V_{CC})$$

$$V_{OUT} = 14.4V$$

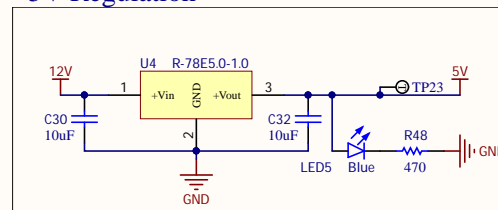
$$V_{CC} = 3.3V$$

$$V_{TR} = 2.24V$$

$$2.24V = 3.3V \cdot (R_{43} / (10k + R_{43}))$$

$$R_{43} = 21k$$

5V Regulation



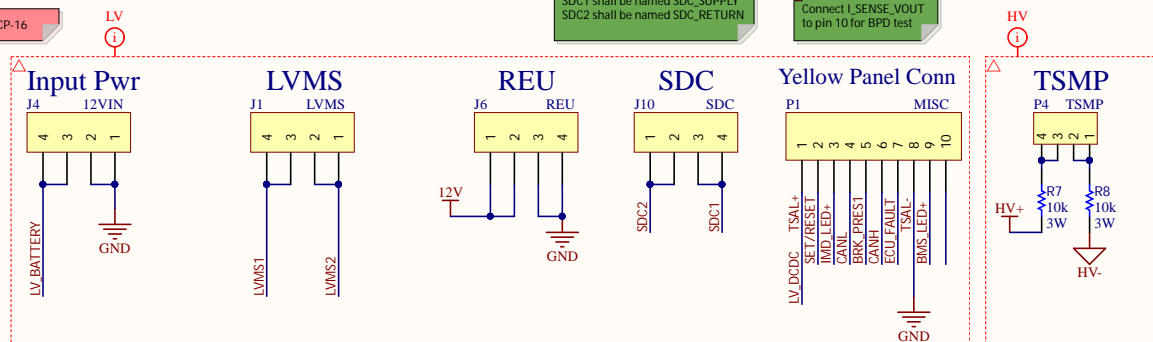
Title Power Regulators	
Designer Jason Sylvestre	Revision 218.1
Date: 5/22/2018	
File: BMB_Power_Regulators.SchDoc	



Auxiliary MCU

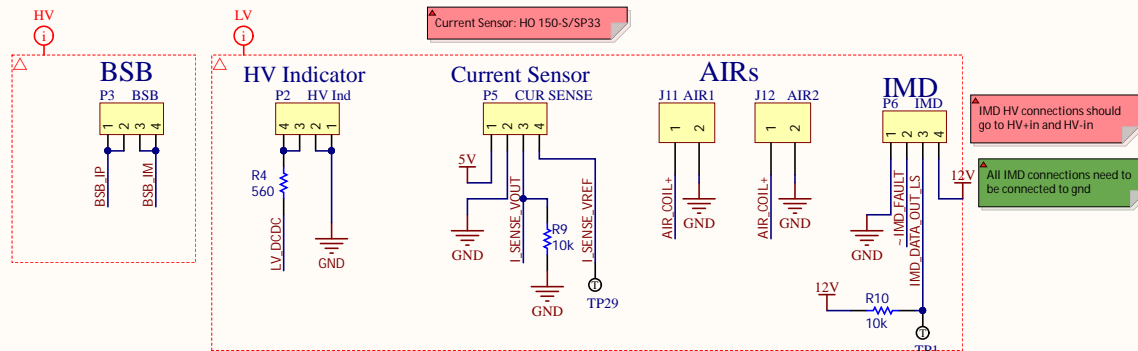


Samtec panel connector: ACP-16



SDC1 shall be named SDC_SUPPLY
SDC2 shall be named SDC_RETURN

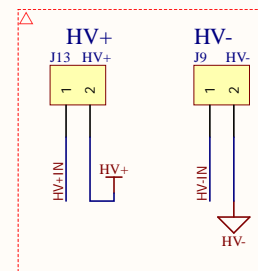
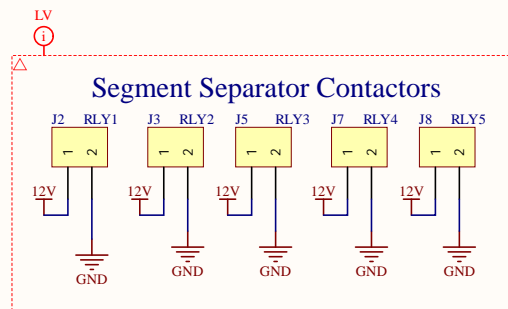
Connect I_SENSE_VOUT
to pin 10 for BPD test



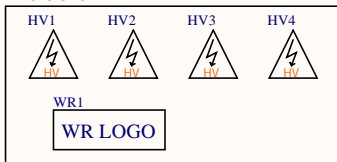
Current Sensor: HO 150-S/SP33

IMD HV connections should
go to HV+ in and HV- in

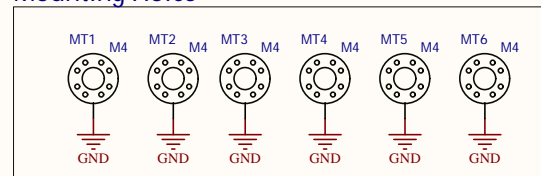
All IMD connections need to
be connected to gnd



Labels

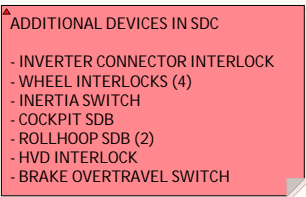


Mounting Holes



Title BMB Connectors	
Designer Jason Sylvestre	Revision 218.1
Date: 5/22/2018	
File: BMB_Connectors.SchDoc	





Title <i>Shutdown Circuit</i>	
Designer <i>Jason Sylvestre</i>	Revision <i>218.1</i>
Date: <u>5/22/2018</u>	
File: <u>Shutdown_Circuit_SchDoc</u>	

