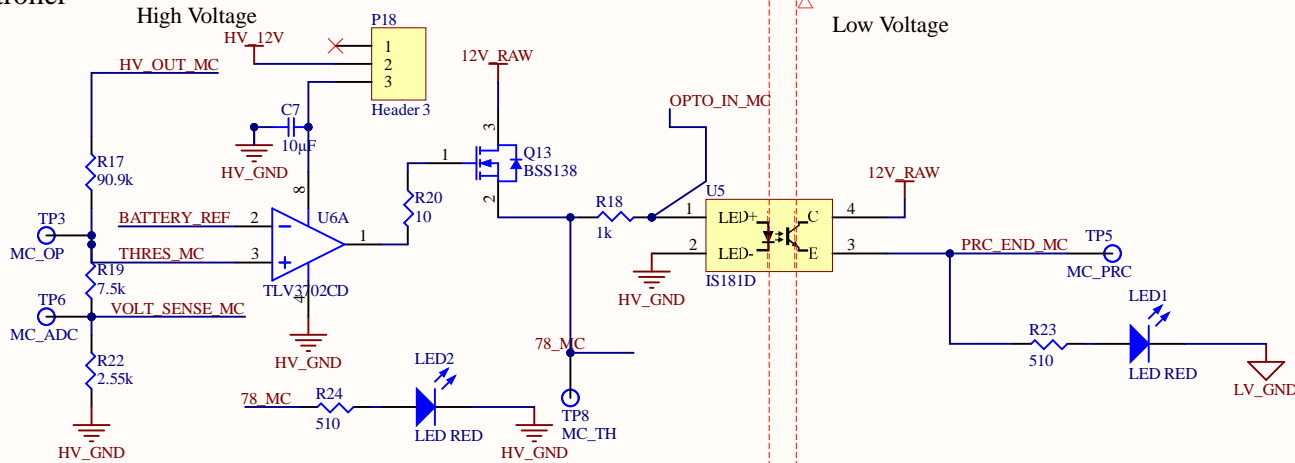


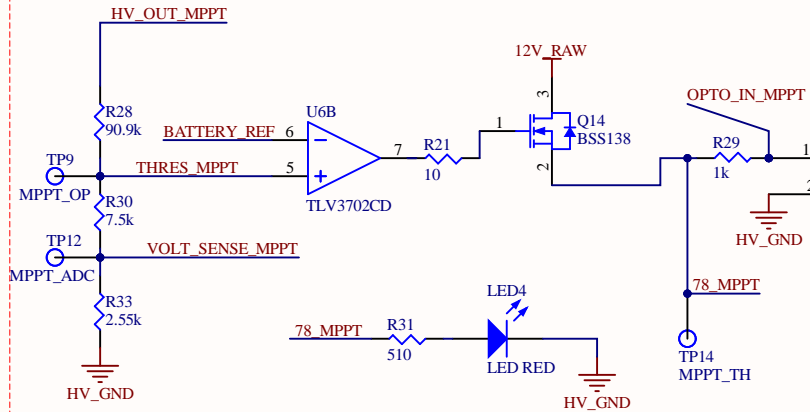
Motor Controller



Low Voltage

Solar Array PCB (MPPT)

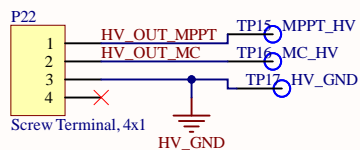
High Voltage



Low Voltage

Will the opto be enough to provide sufficient current to drive led and bjt? According to the datasheet, max output current is 50mA and this should not be an issue

High Voltage Input



Title **Precharge Breakout**

Engineer: *

Date: 4/3/2023

File: voltage_sense.SchDoc

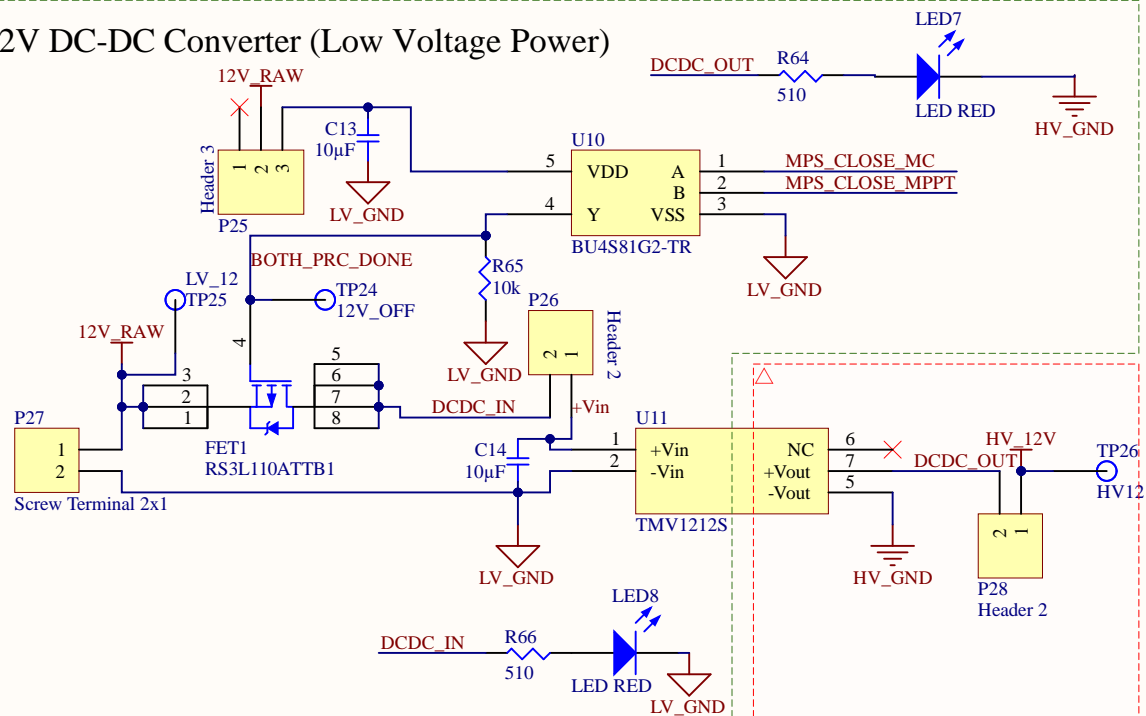
Revision:1

Sheet3 of 11

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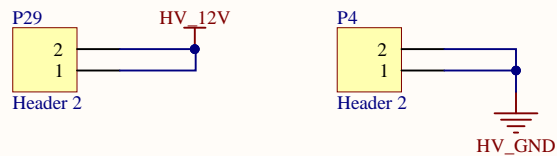
**BADGER
LOOP**

12V DC-DC Converter (Low Voltage Power)

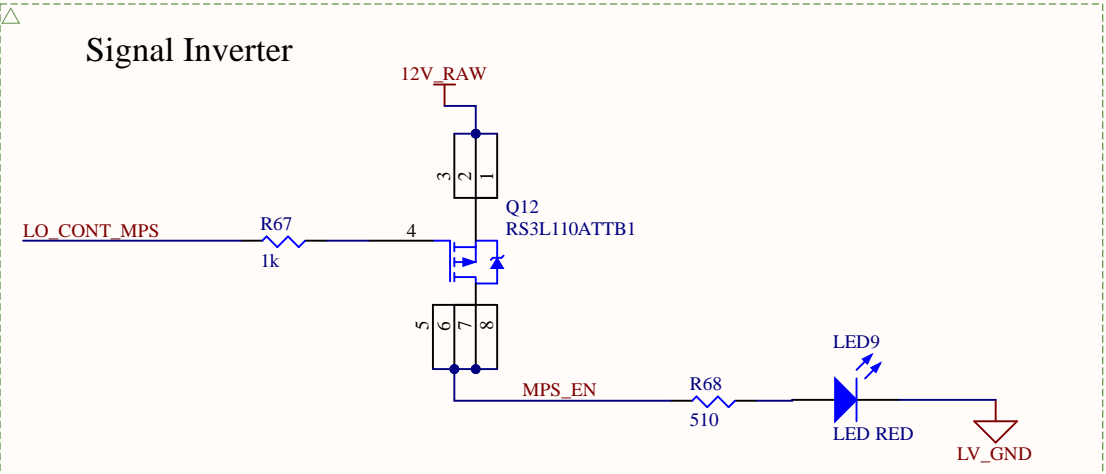


△ P27 is a backup if something is not working with the on board powerpath controller circuitry

Debug Header



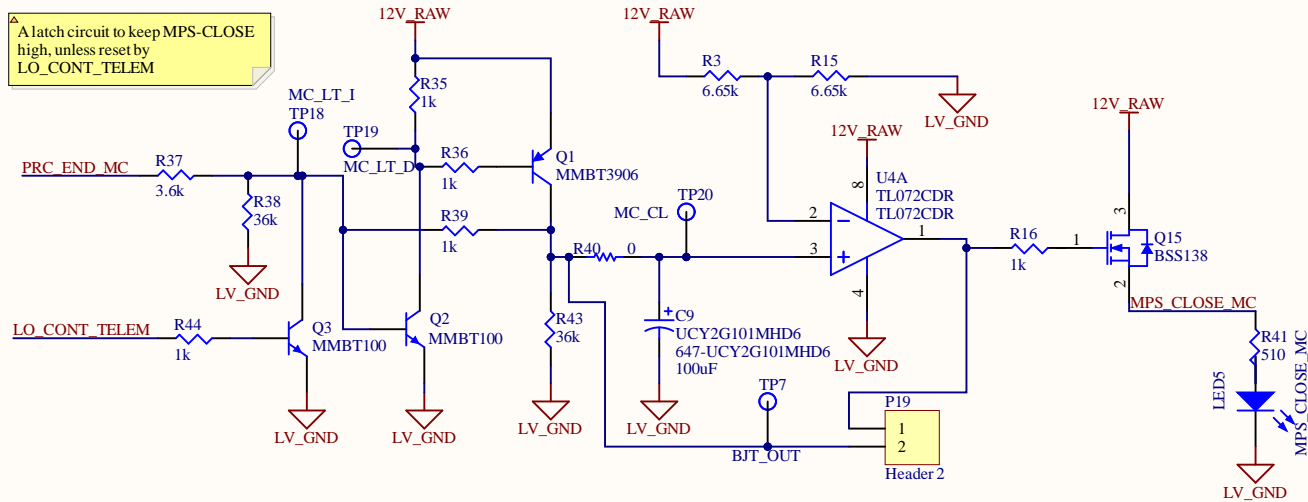
Title		
Size	Number	Revision
A		
Date:	4/03/2023	Sheet of
File:	C:\Users\...\12V dc-dc converter.SchDoc	Drawn By:



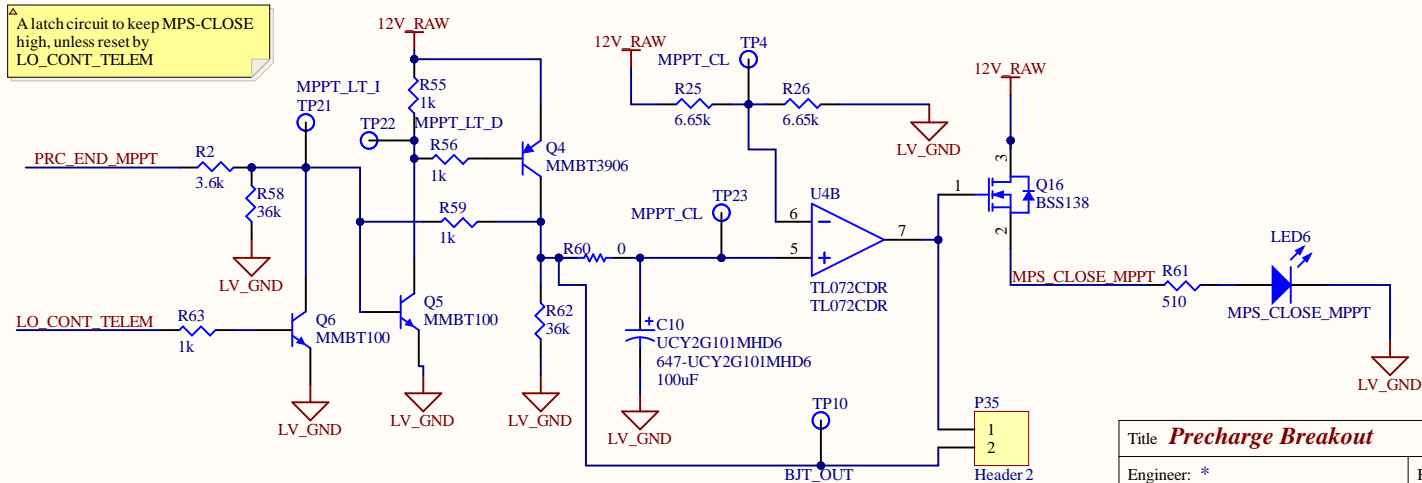
Title		
Size	Number	Revision
A		
Date:	4/03/2023	Sheet of
File:	C:\Users\...\inverter.SchDoc	Drawn By:

Option #1

Motor Controller



Solar Array PCB (MPPT)



Title **Precharge Breakout**

Engineer: *

Date: 4/3/2023

File: latch.SchDoc

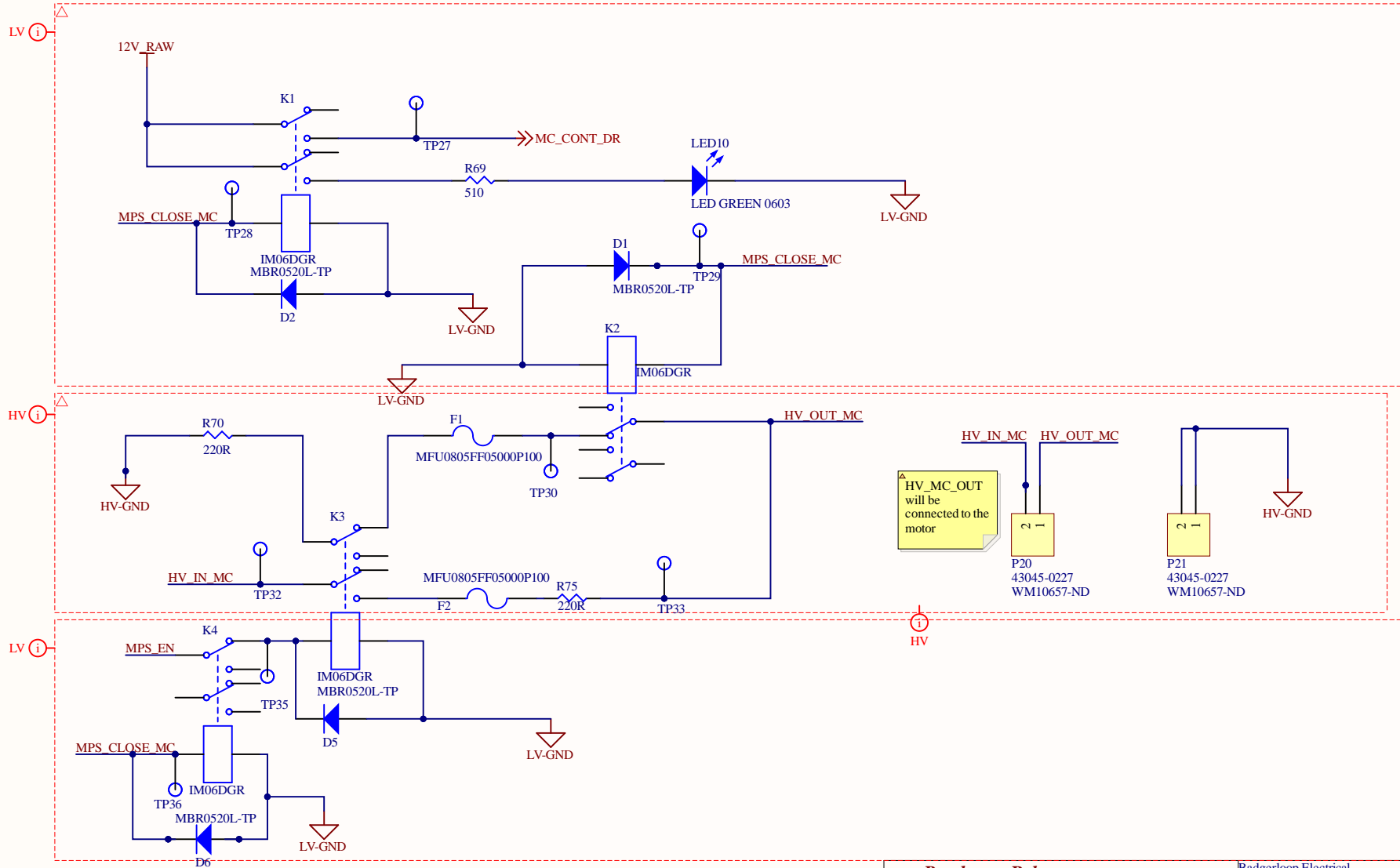
Revision:*

Time: 9:44:01 PM Sheet 6 of 11

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**BADGER
LOOP**

Motor Controller Precharge Relays



Title **Precharge Relays**

Engineer: *

Date: 4/3/2023

File: motor_controller_relays.SchDoc

Revision:*

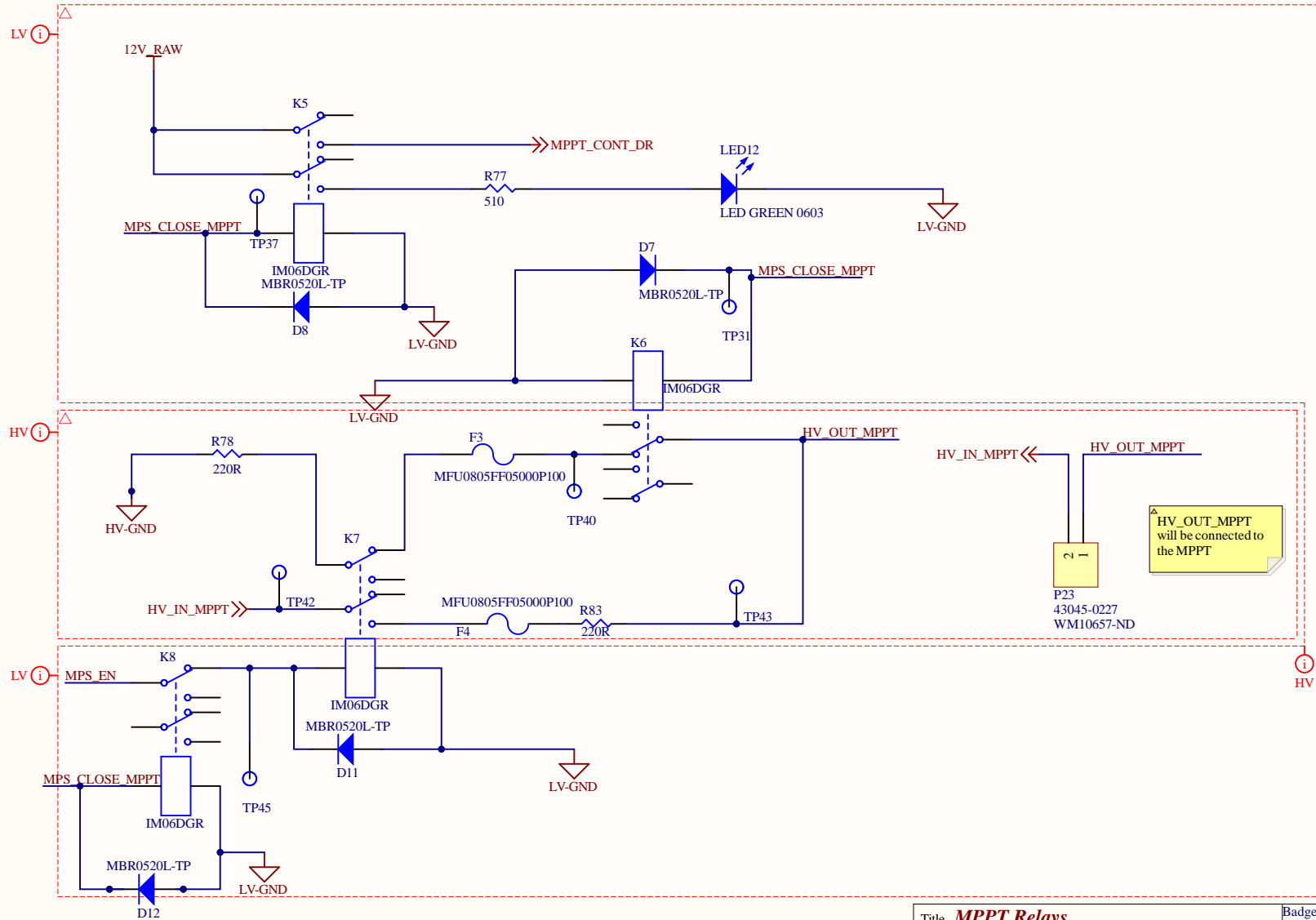
Time: 9:44:02 PM

Sheet 7 of 11

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**BADGER
LOOP**

MPPT Precharge Relays



Title **MPPT Relays**

Engineer: *

Date: 4/3/2023

File: mppt_relays.SchDoc

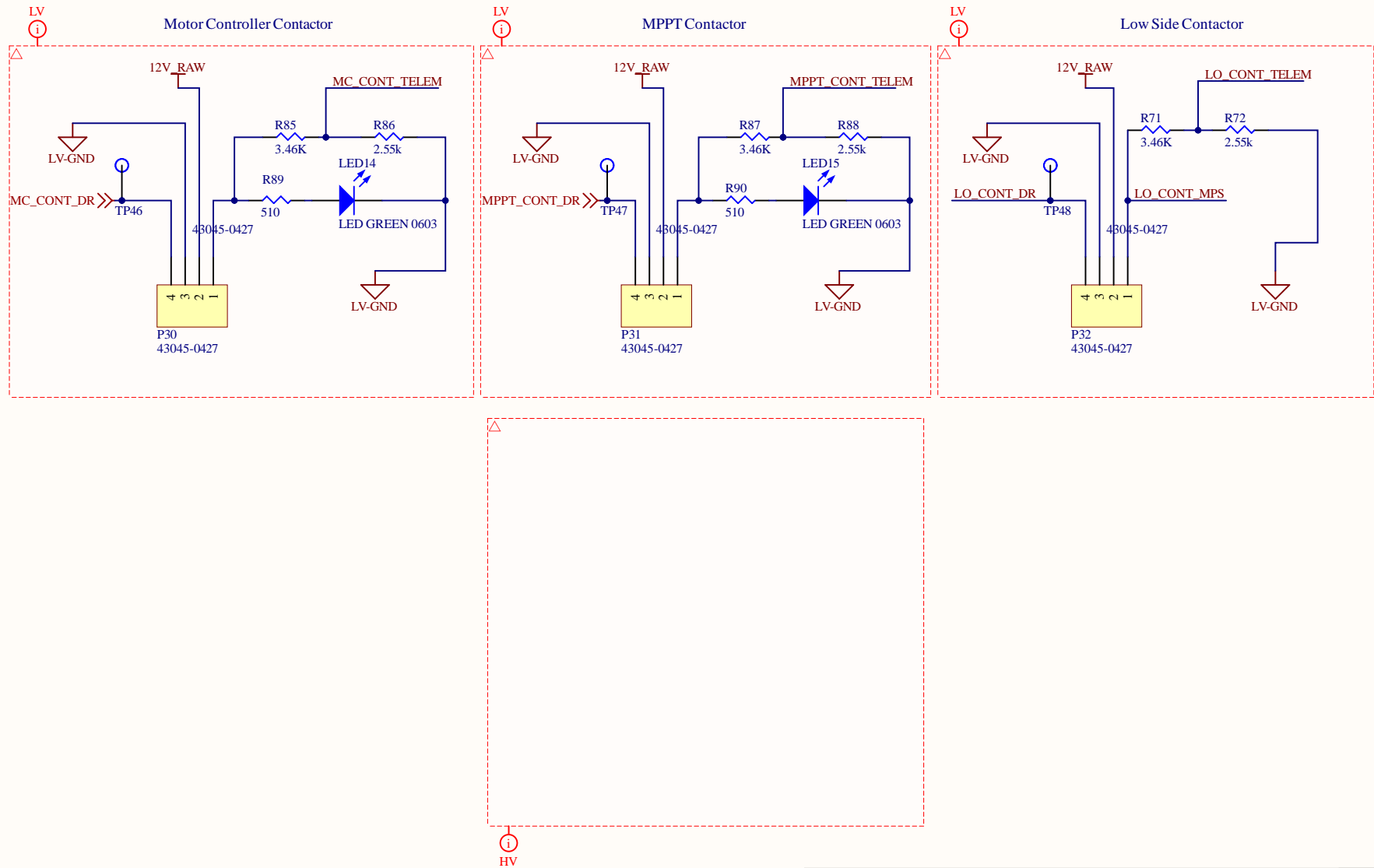
Revision:*

Time: 9:44:03 PM Sheet 8 of 11

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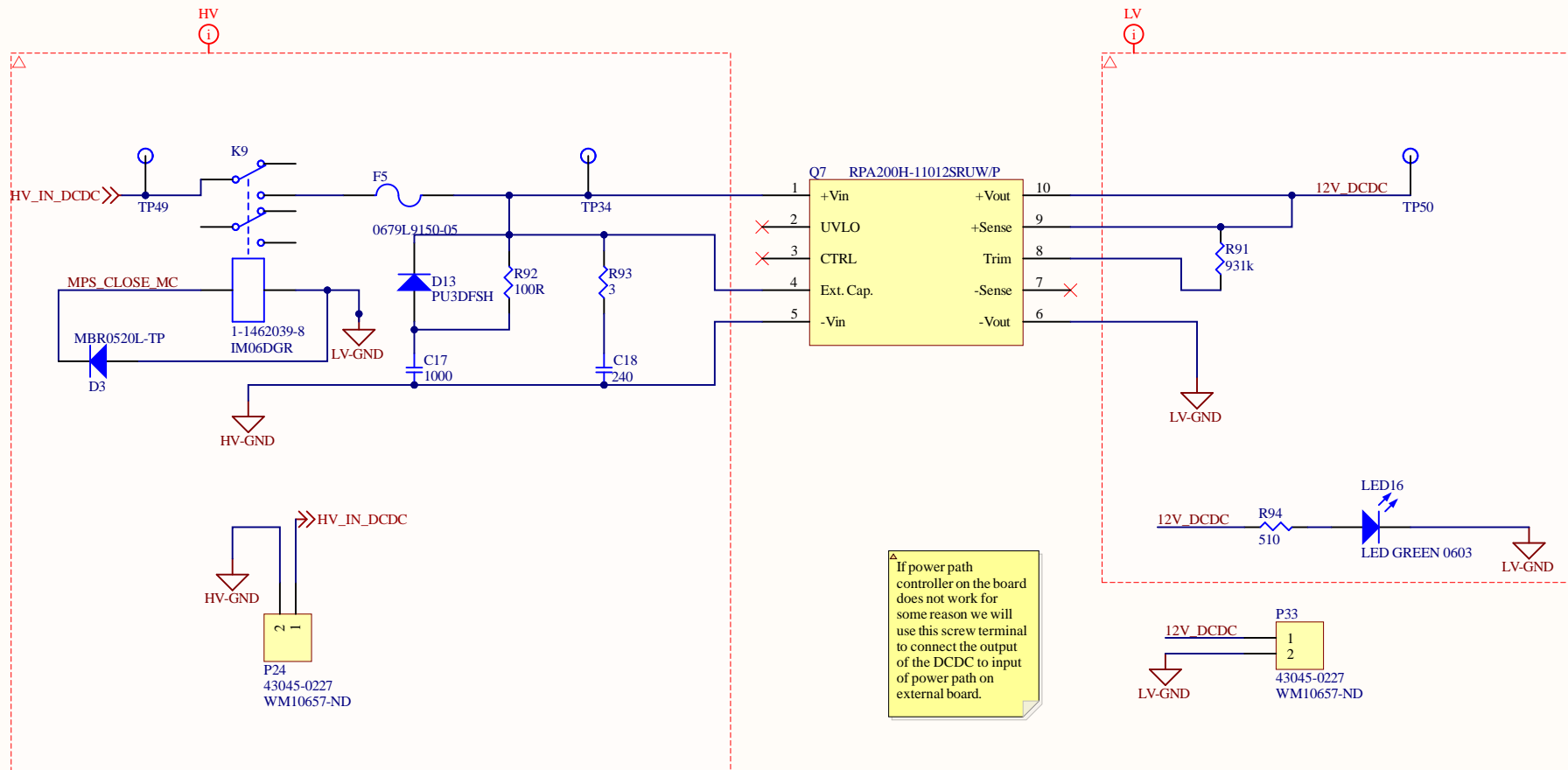
**BADGER
LOOP**

Main Power Switch



Title Main Power Switch			
Engineer: *		Revision:*	
Date: 4/3/2023	Time: 9:44:04 PM	Sheet 9 of 11	
File: main_power_switch.SchDoc			

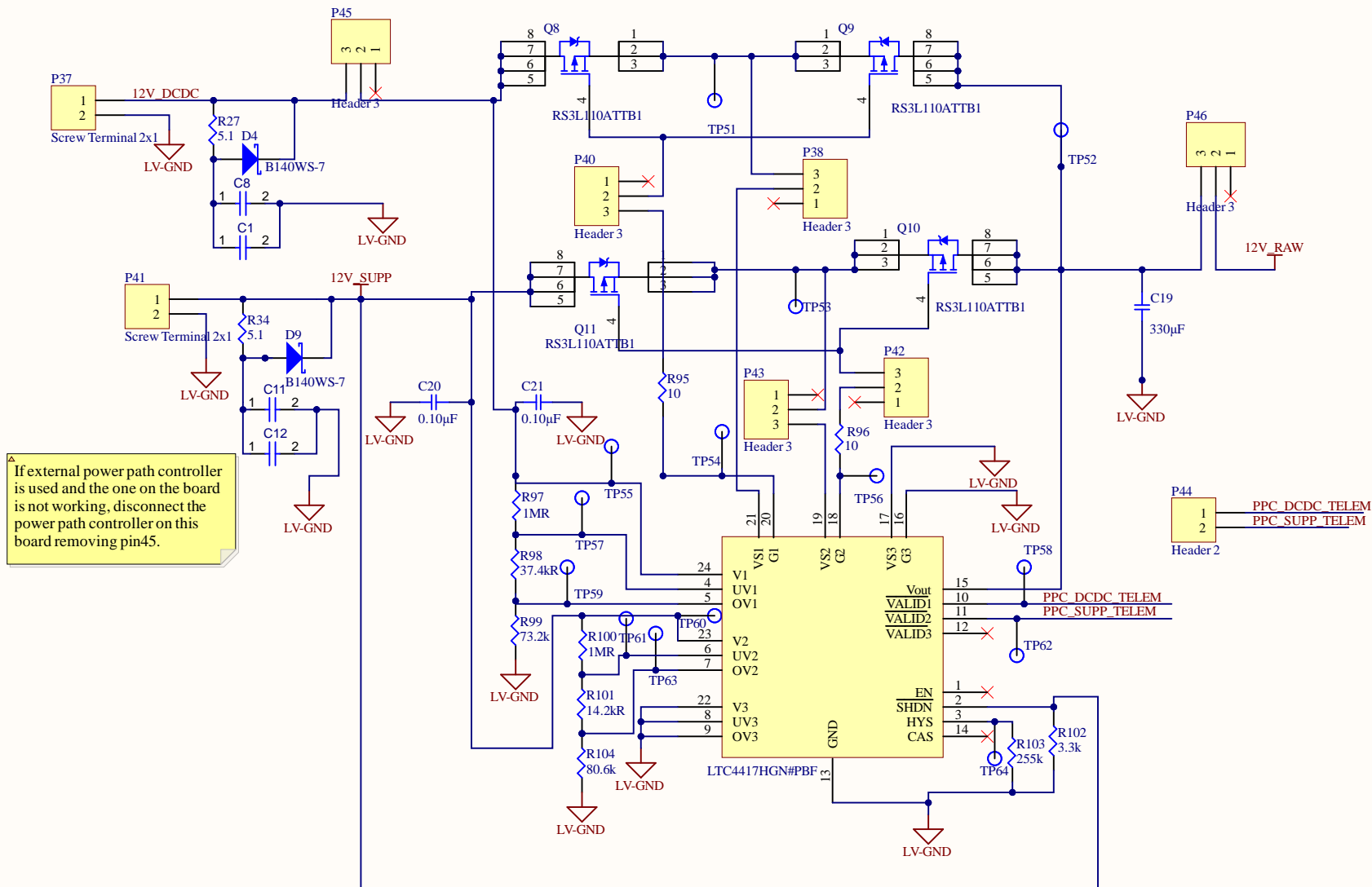
DC-DC Converter



Title *			
Engineer: *		Revision:*	
Date: 4/3/2023	Time: 9:44:05 PM	Sheet 10 of 11	
File: dc_dc_converter.SchDoc			

**BADGER
LOOP**

Power Controller



Title Power Path Controller		
Engineer: *	Revision:*	
Date: 4/3/2023	Time: 9:44:06 PM	Sheet 11 of 11
File: powerpath_controller.SchDoc		

BADGER
LOOP

