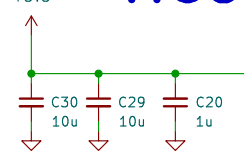


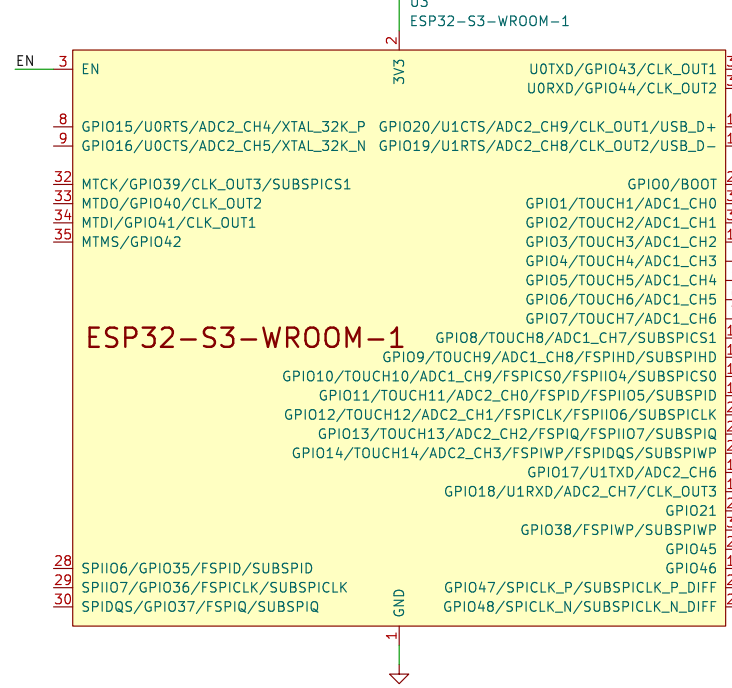
## MCU

Danger free pins:  
GPIO\_03,  
GPIO\_45,  
GPIO\_46,  
BOOT



ESP32-S3 has four strapping pins:  
• GPIO0 / BOOT  
• GPIO45  
• GPIO46  
• GPIO3  
GPIO0, GPIO45 and GPIO46 are connected to the chip's internal weak pull-up/pull-down during the chip reset. GPIO3 is floating by default

Internal Pull-up/down 45k  
Max IC typical current:  
source 40mA  
sink 28mA  
EN pin TTL:  
0.75\*Vcc+ HIGH  
0.25\*Vcc- LOW



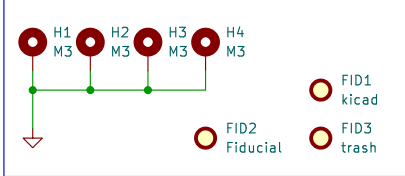
Divder\_nmos  
ENCODER\_A  
ENCODER\_B  
SW\_OUT  
BUCK\_EN

SPI\_SS1  
SPI\_MISO  
SPI\_MOSI  
SPI\_CLK

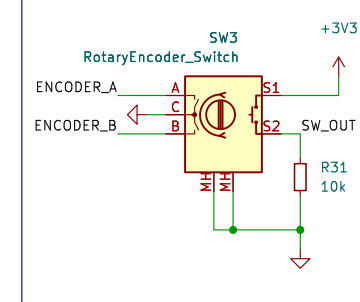
GPIO\_01  
GPIO\_02  
GPIO\_04  
GPIO\_05  
GPIO\_06  
GPIO\_07  
GPIO\_08  
GPIO\_09  
GPIO\_10  
GPIO\_11  
GPIO\_12  
GPIO\_13  
GPIO\_14  
GPIO\_15  
GPIO\_16  
GPIO\_17  
GPIO\_18

GPIO\_21  
GPIO\_48  
GPIO\_47  
GPIO\_35  
GPIO\_36  
GPIO\_37  
GPIO\_38  
GPIO\_39  
GPIO\_40  
GPIO\_41  
GPIO\_42

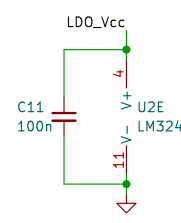
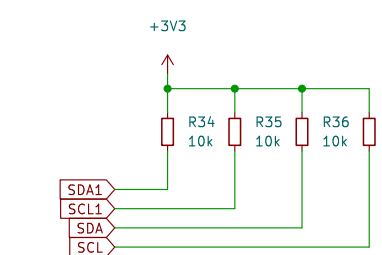
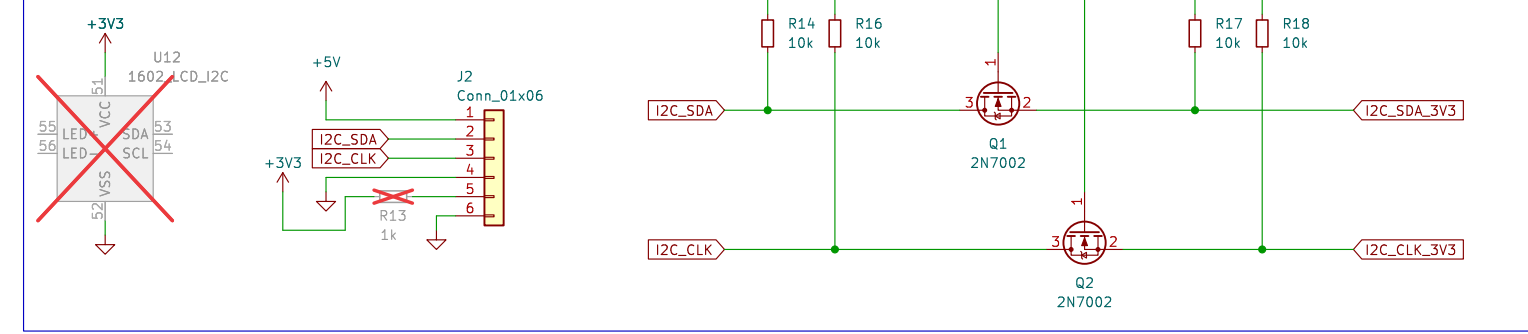
## MOUNTING HOLES FIDUCIALS AND OTHER



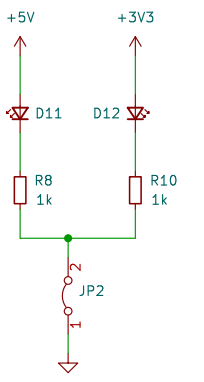
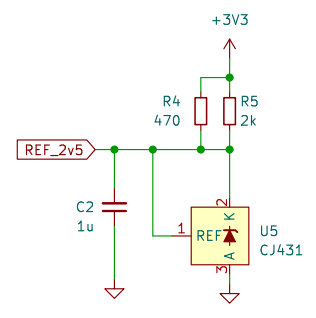
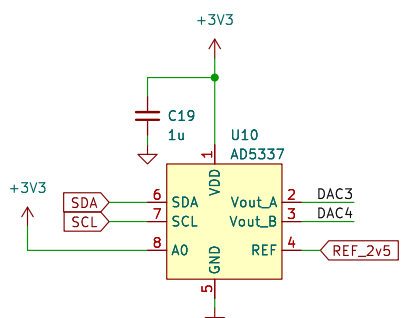
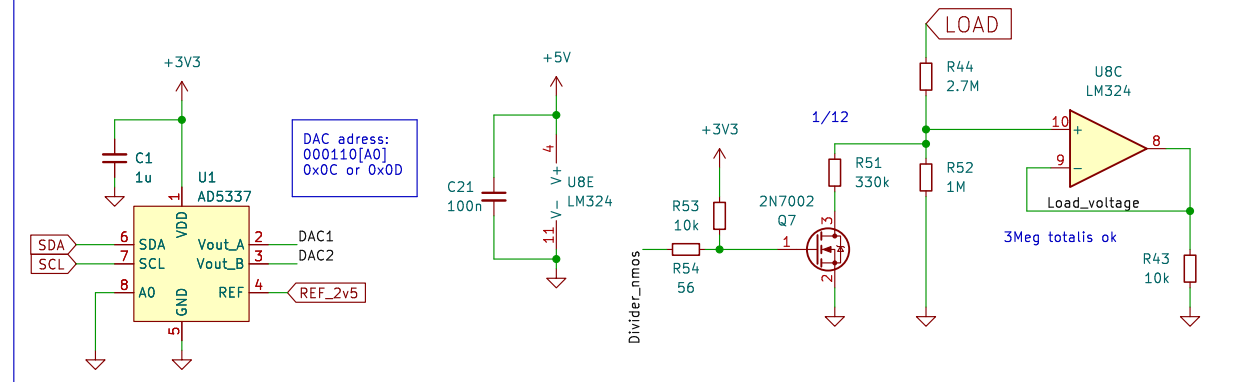
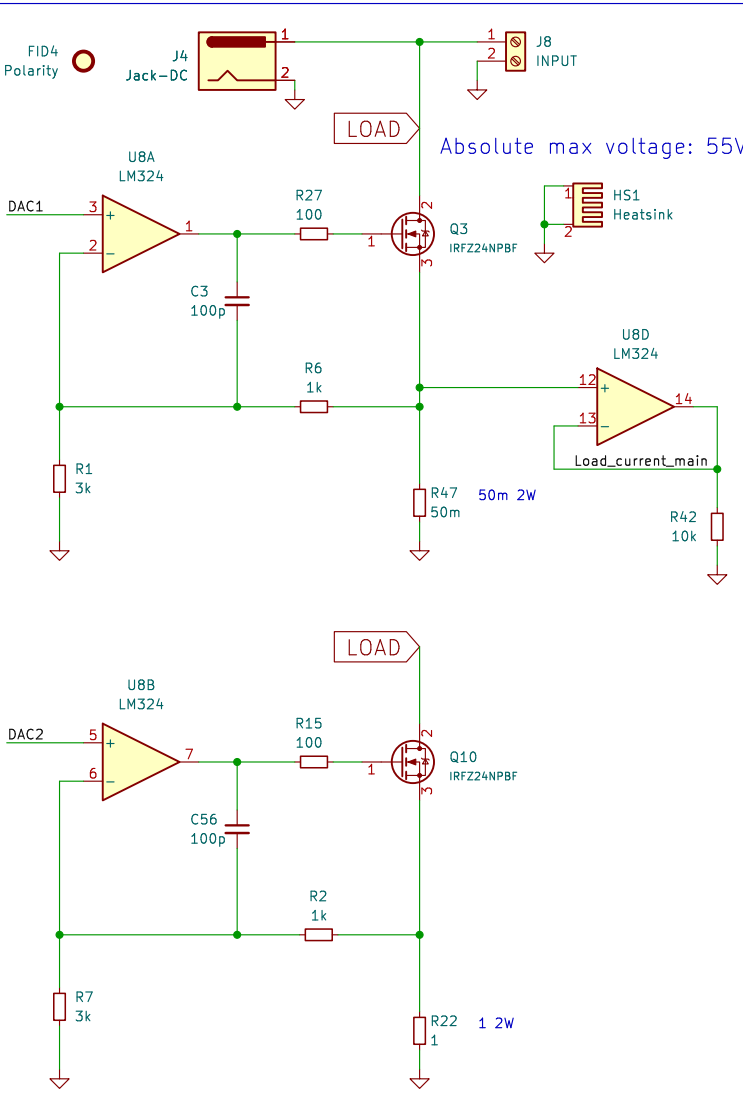
## ENCODER



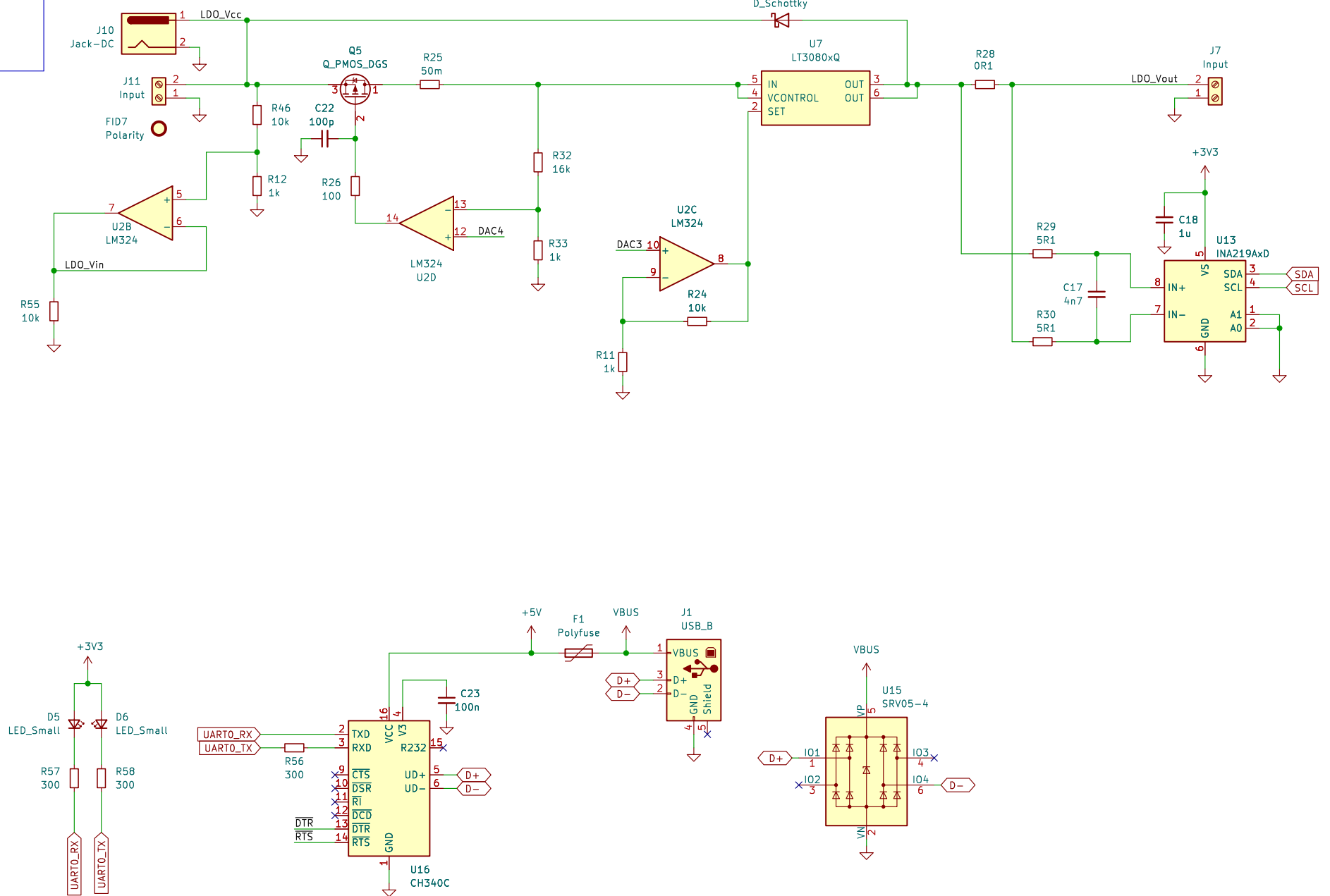
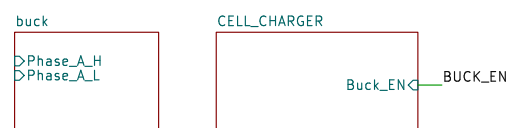
## LCD

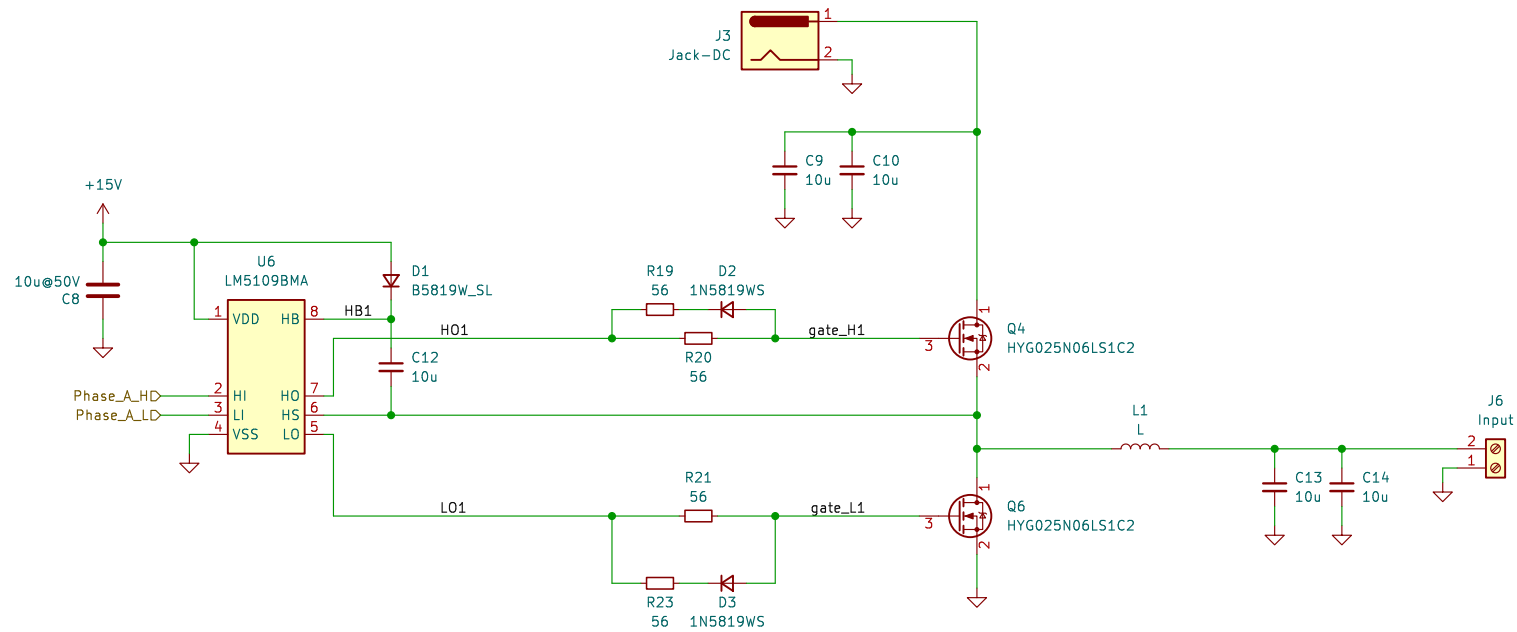


## PROGRAMABLE LOAD FILTERS AND POWER ELEMENTS



## USB+ESC TVS + Indicator LEDs





Sheet: /buck/  
File: buck.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad 7.0.8

Date:

Rev:  
Id: 2/3

