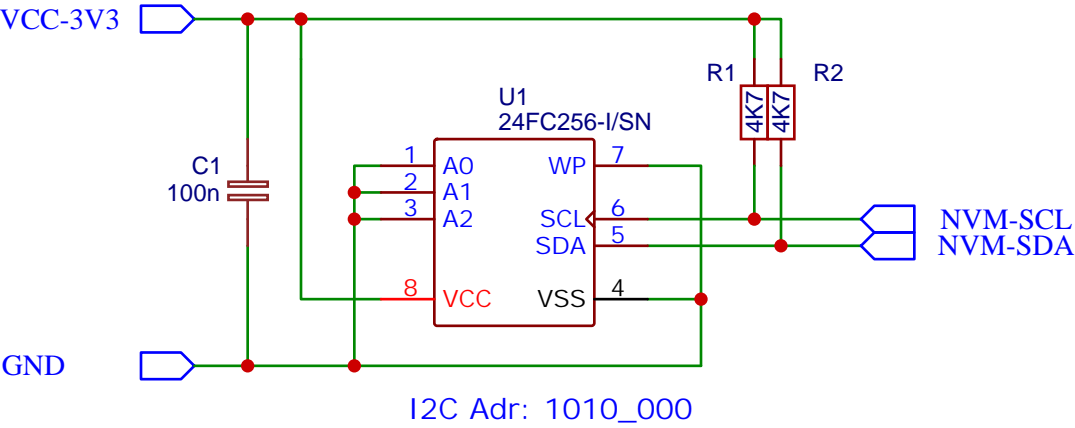
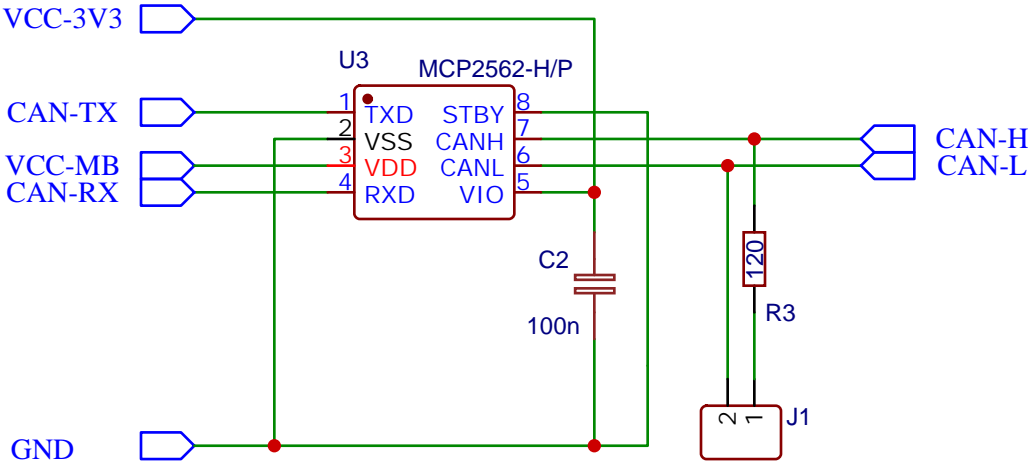


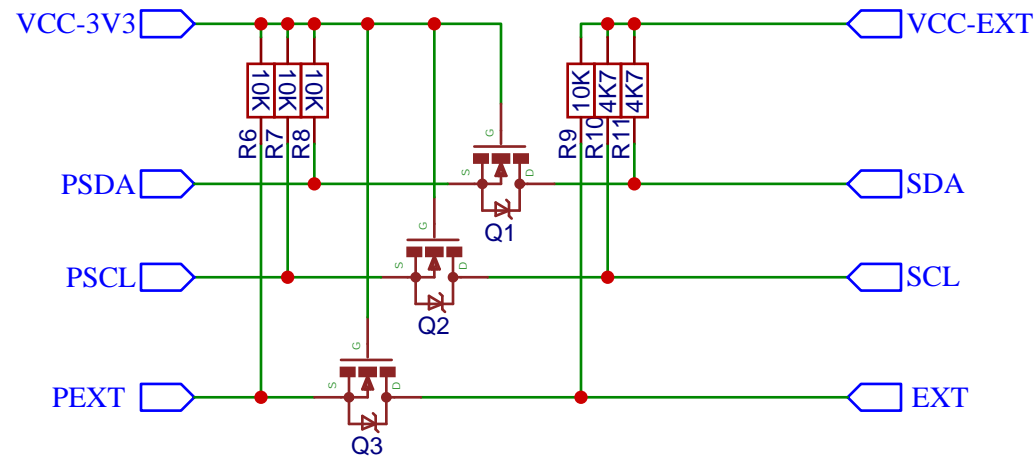
Non-Volatile Memory



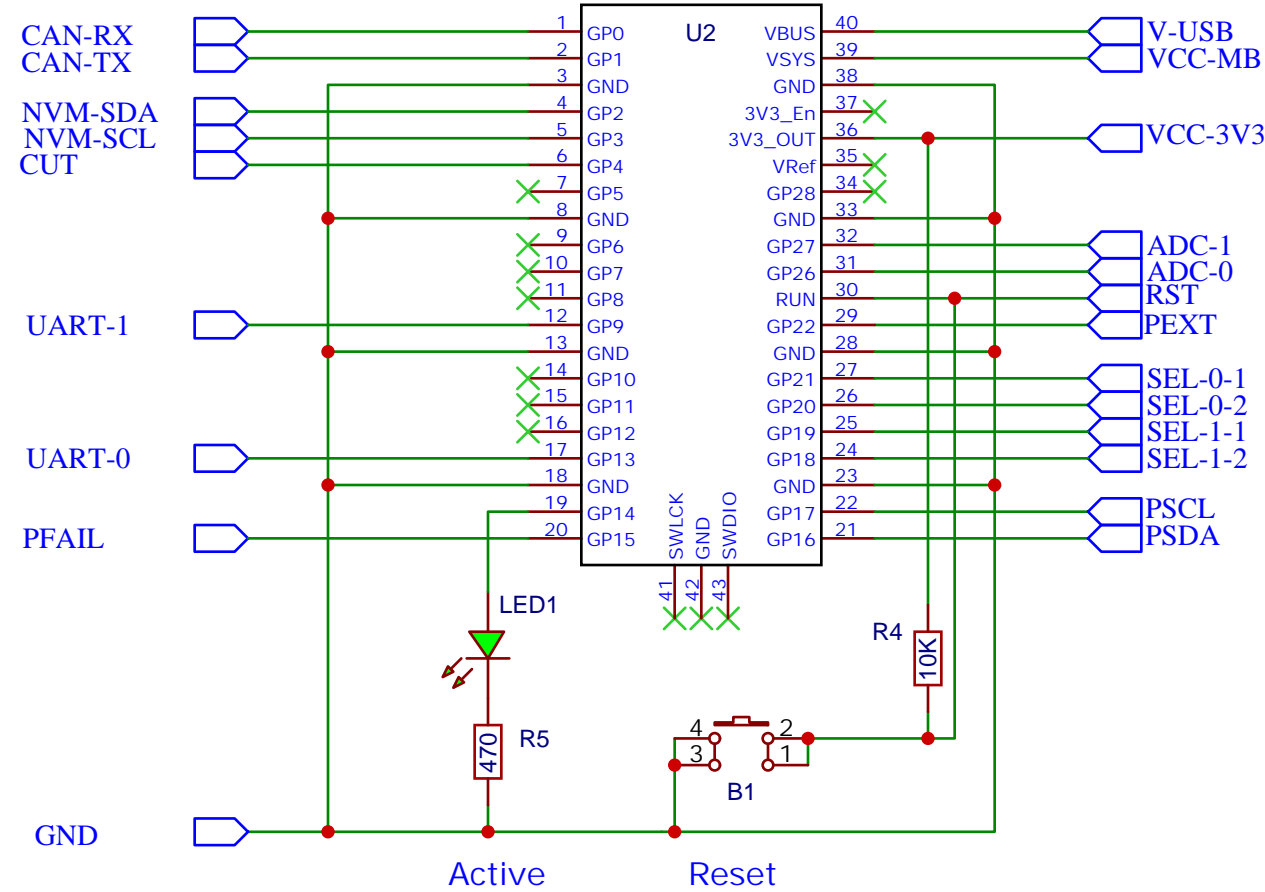
CAN Bus Line Driver



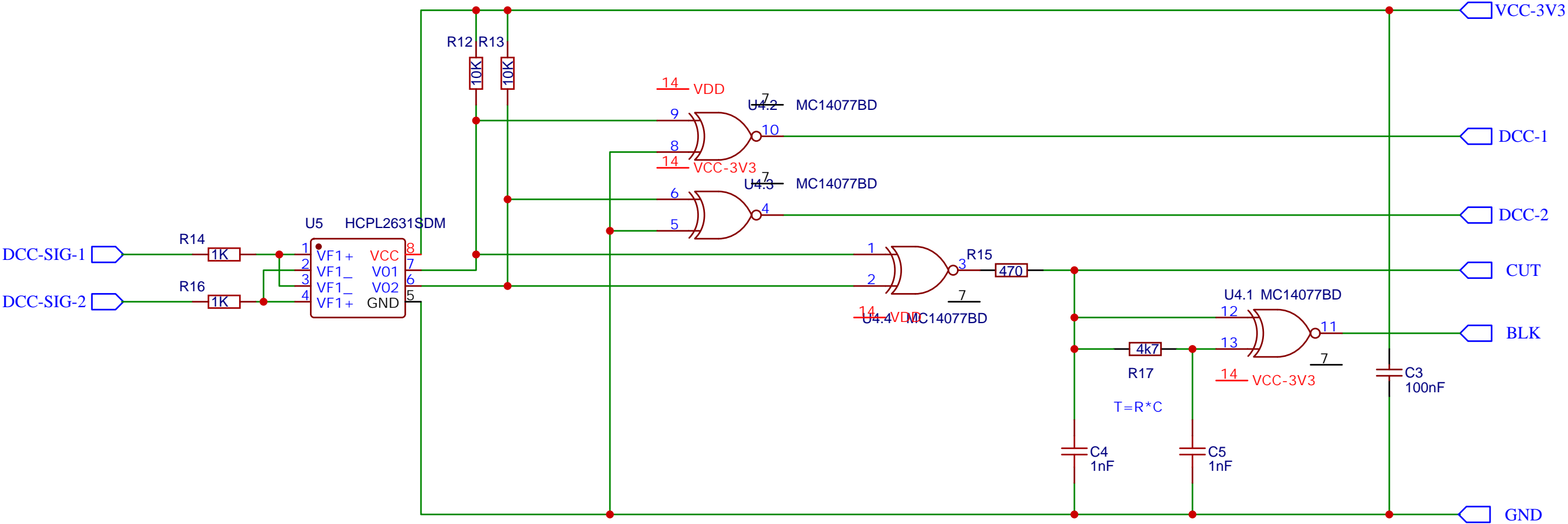
Level shifters



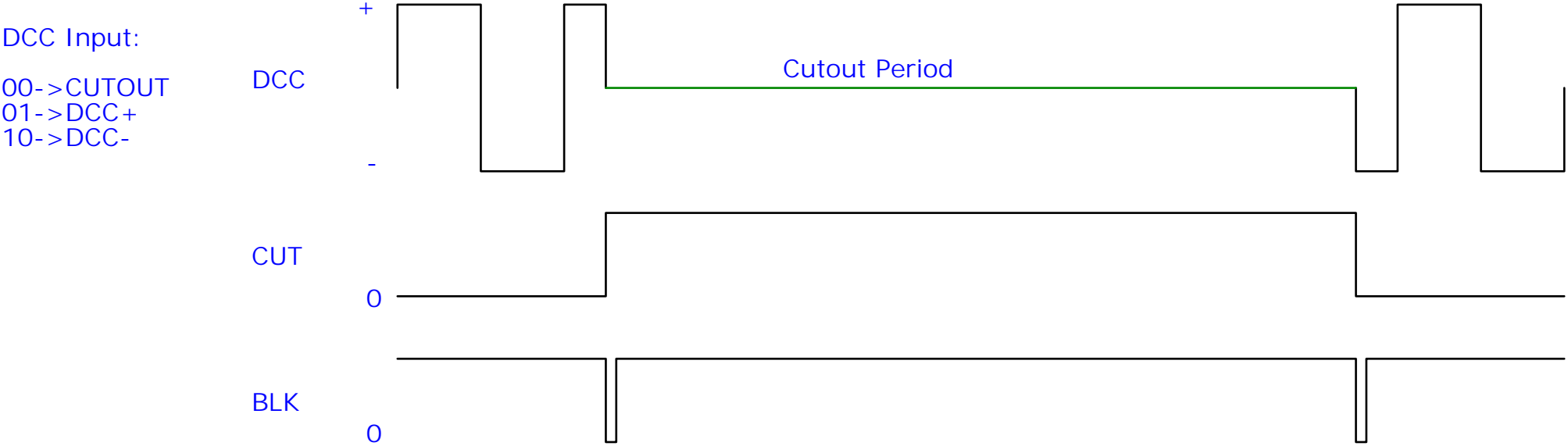
Main Controller - RASPBERRY Pi Pico



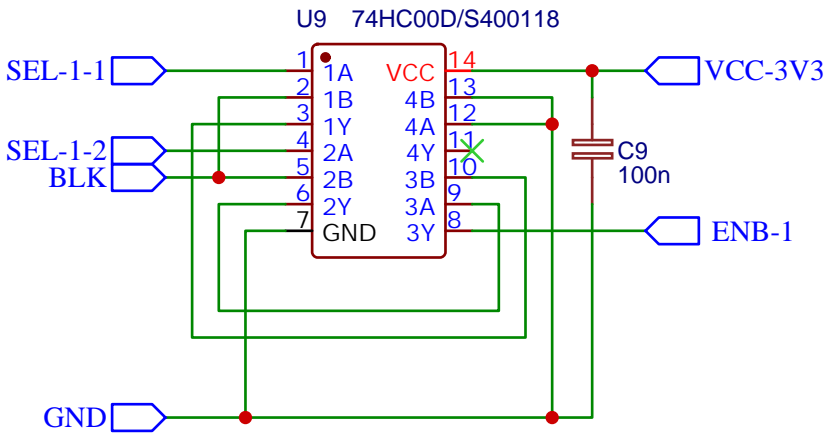
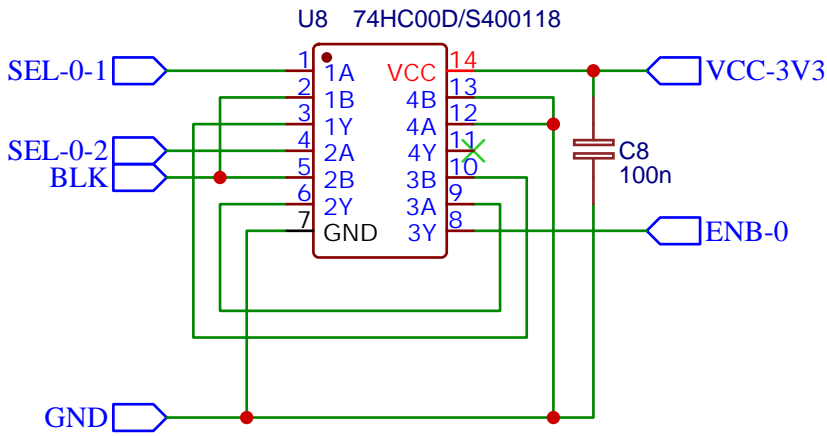
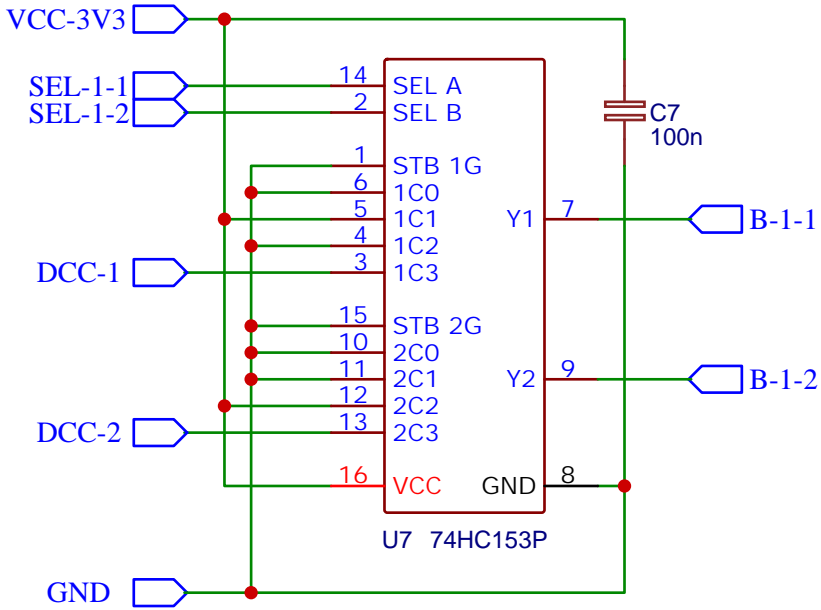
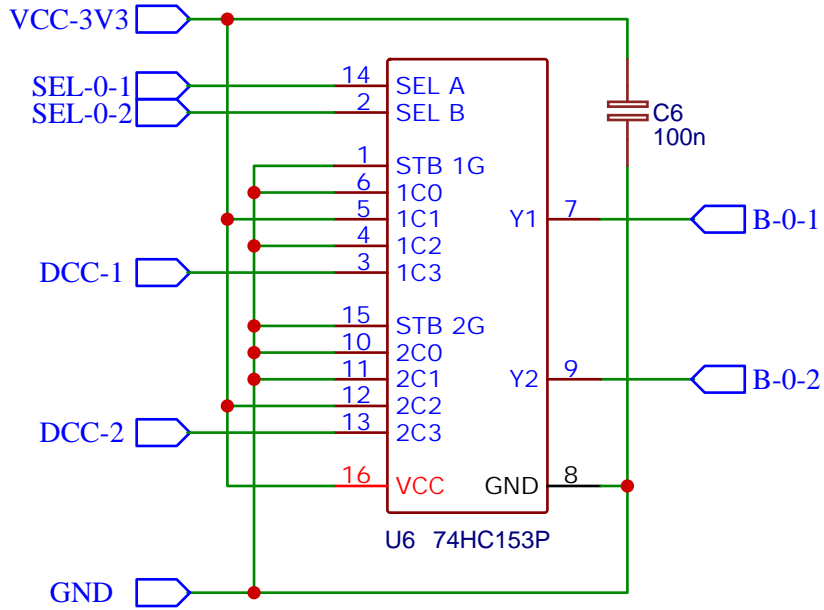
LCS Bus - DCC Signal Input



DCC Signal, Cutout and Block Signal.



H-Bridge Control Logic



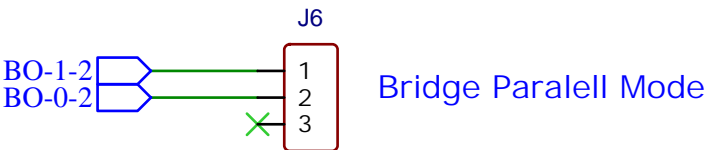
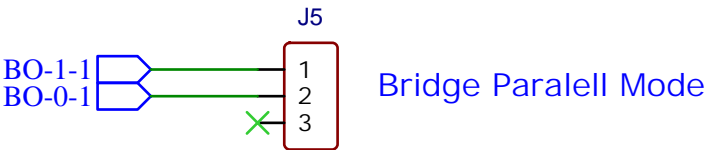
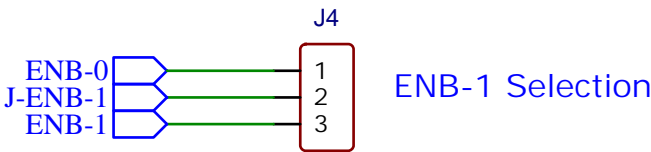
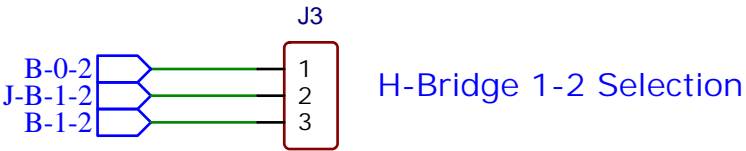
Control Logic Signals:

Sel-2	Sel-1	-> B-x-1	B-x-2	ENB-x	STATE
0	0	-> GND	GND	GND	"Z"
0	1	-> VCC	GND	PWM/BLK	"FWD"
1	0	-> GND	VCC	PWM/BLK	"REV"
1	1	-> DCC1	DCC2	DCC/BLK	"DCC"

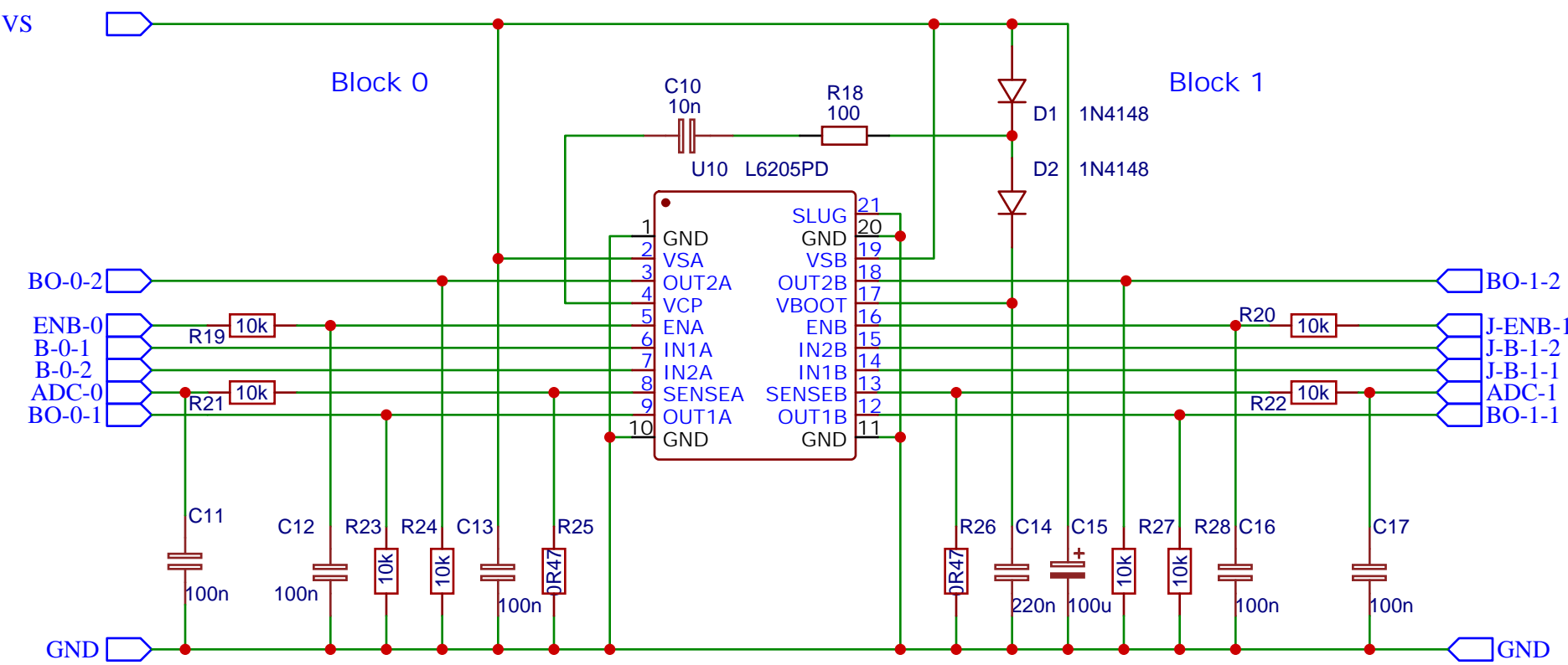
ENB == LOW -> Z

The Dual Bridges can be configured to run as a Mono Block.  
Jumper position (1-2) -> MONO mode.  
Jumper position (2-3) -> DUAL mode.

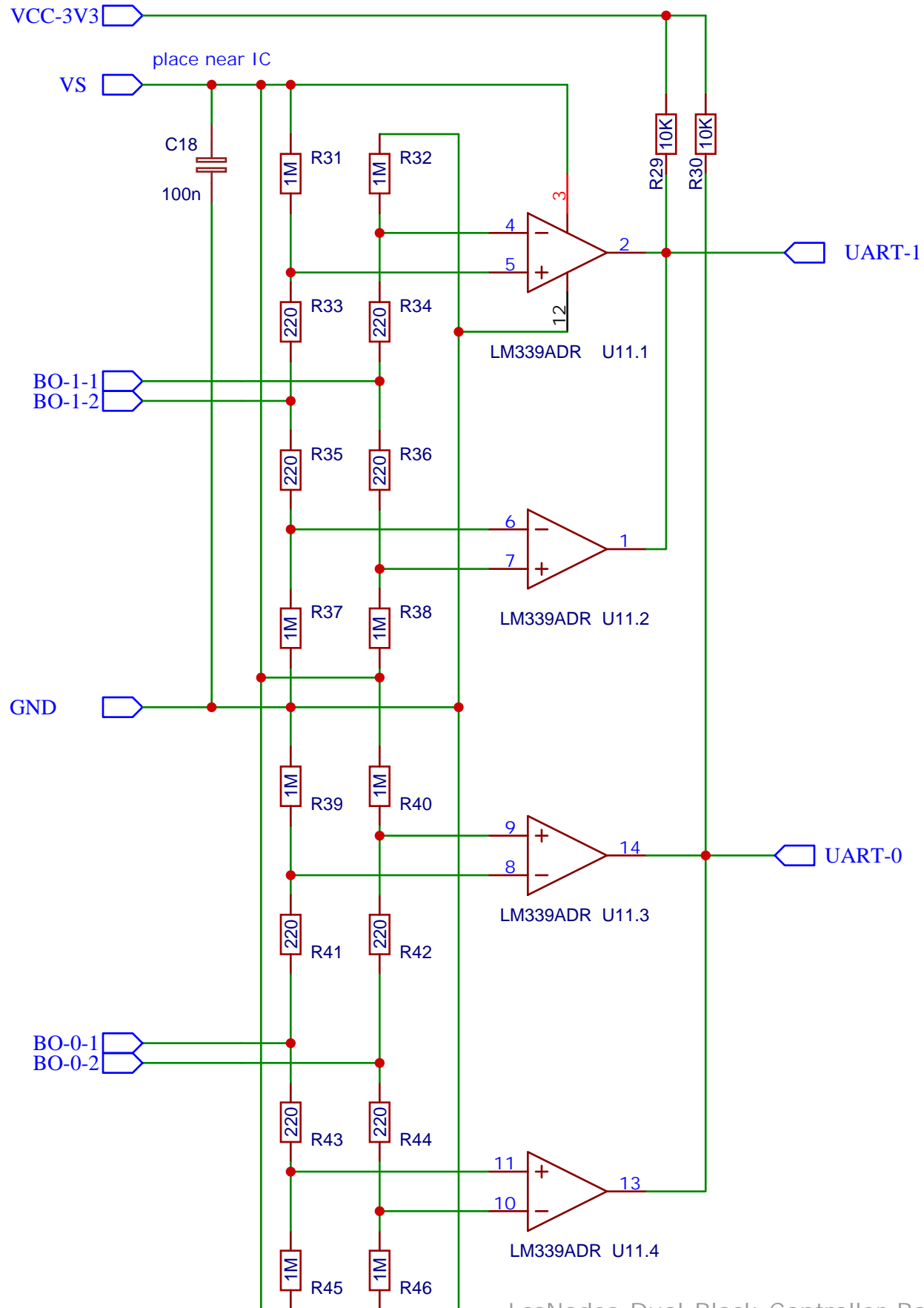
WARNING: ALL jumpers blocks must be set to the correct option.



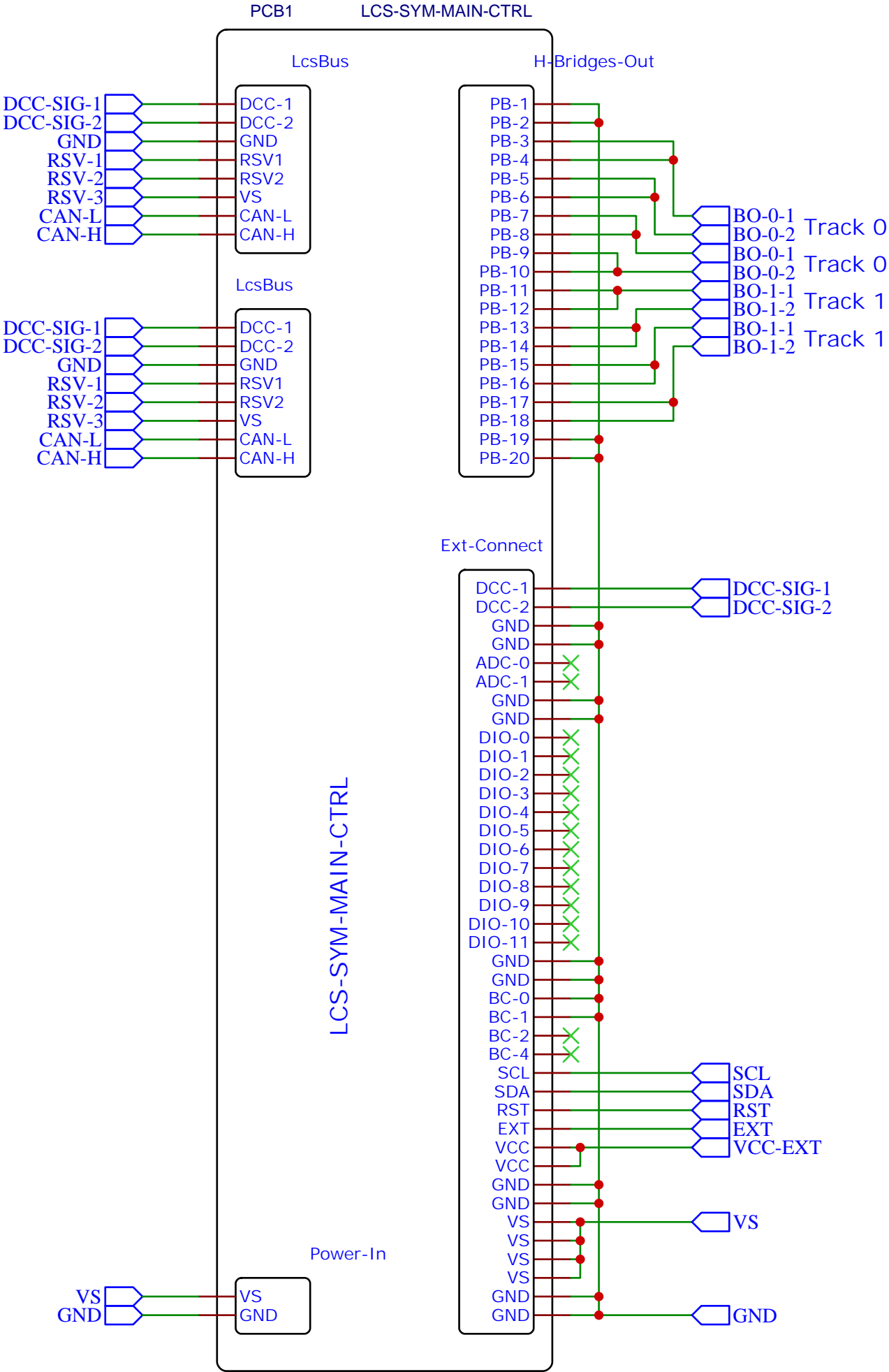
Dual H-Bridge



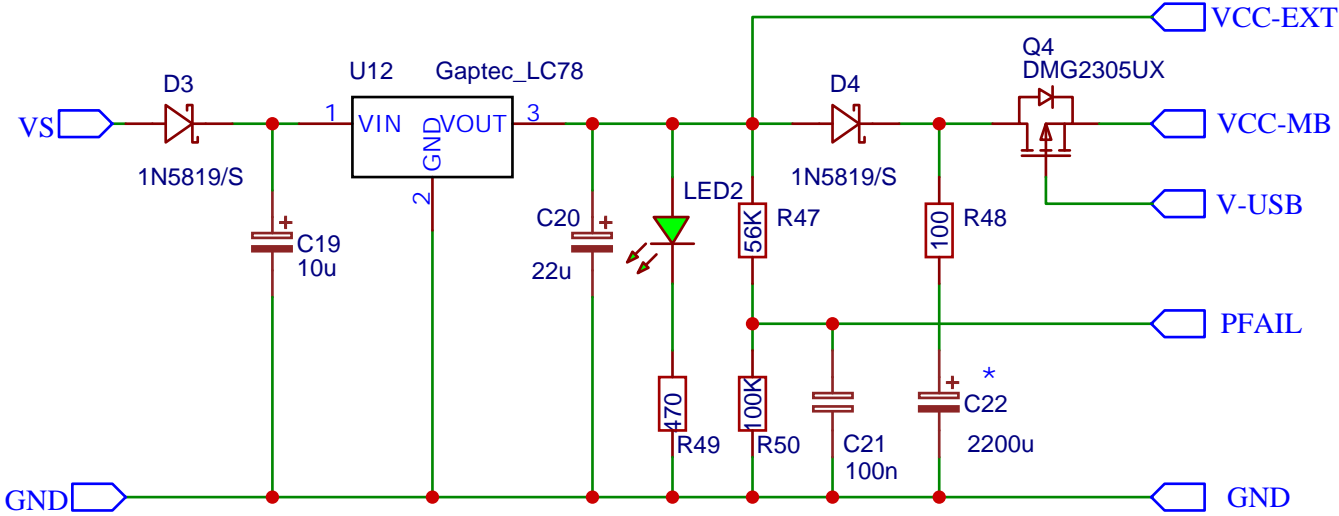
## Dual RailCom Detector



Block Controller PCB connectors



Power Supply with Powerfail Option



\* optional, only for PFAIL option