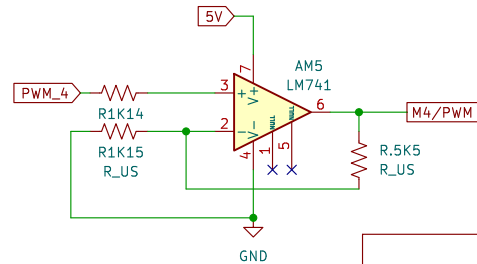
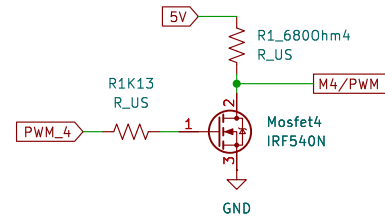
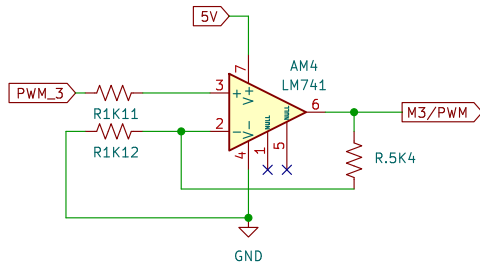
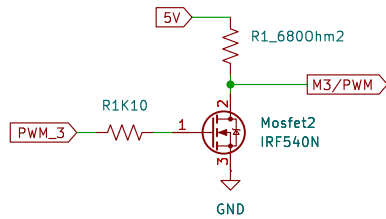
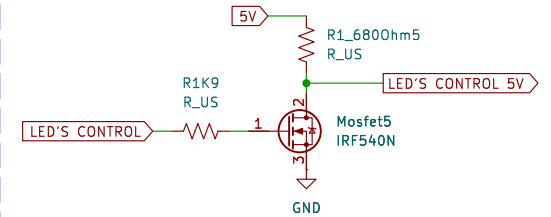
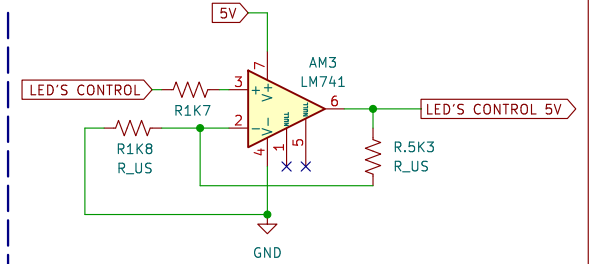
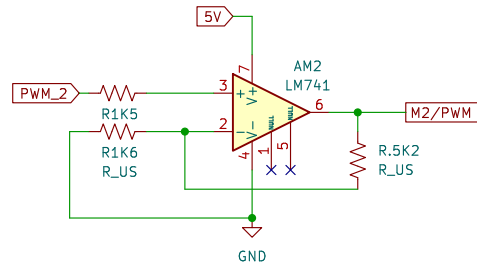
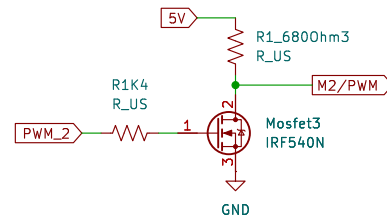
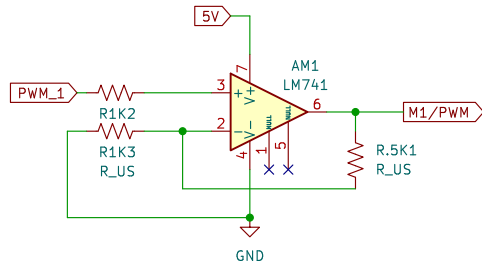
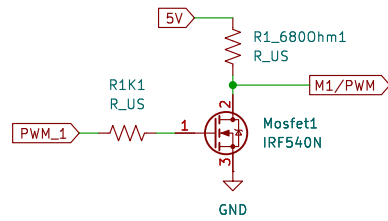


Operational Amplifier



Sheet: /Amplifiers/
File: Amplifiers.kicad_sch

Title:

Size: A4 Date:

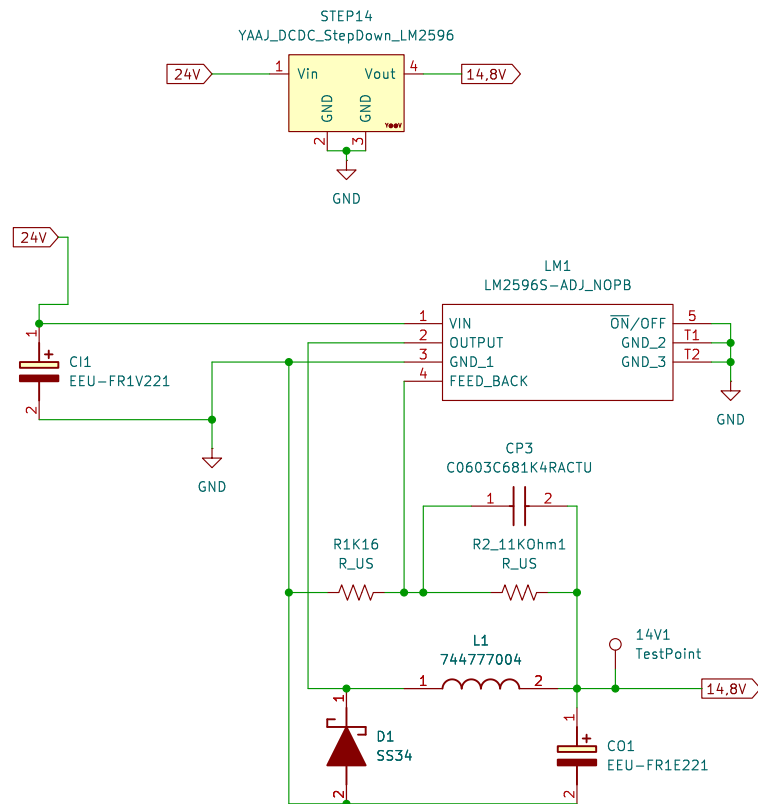
KiCad E.D.A. 8.0.8

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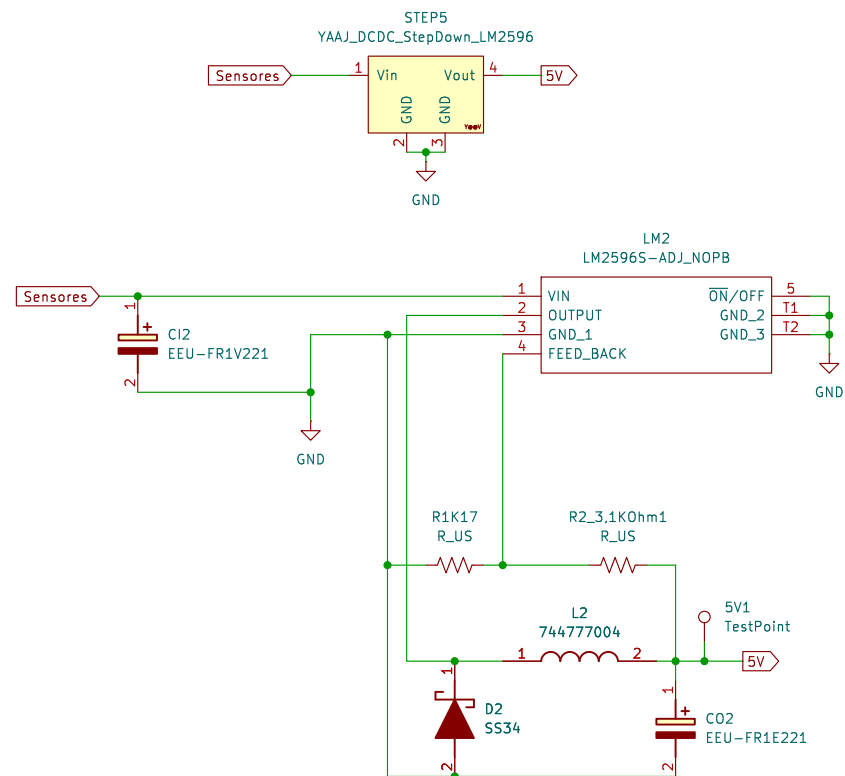
STEP DOWN: 24V TO 14.8V

STEP DOWN (Backup module): 24V TO 14.8V



STEP DOWN: 24V TO 5V

STEP DOWN (Backup module): 24V TO 5V



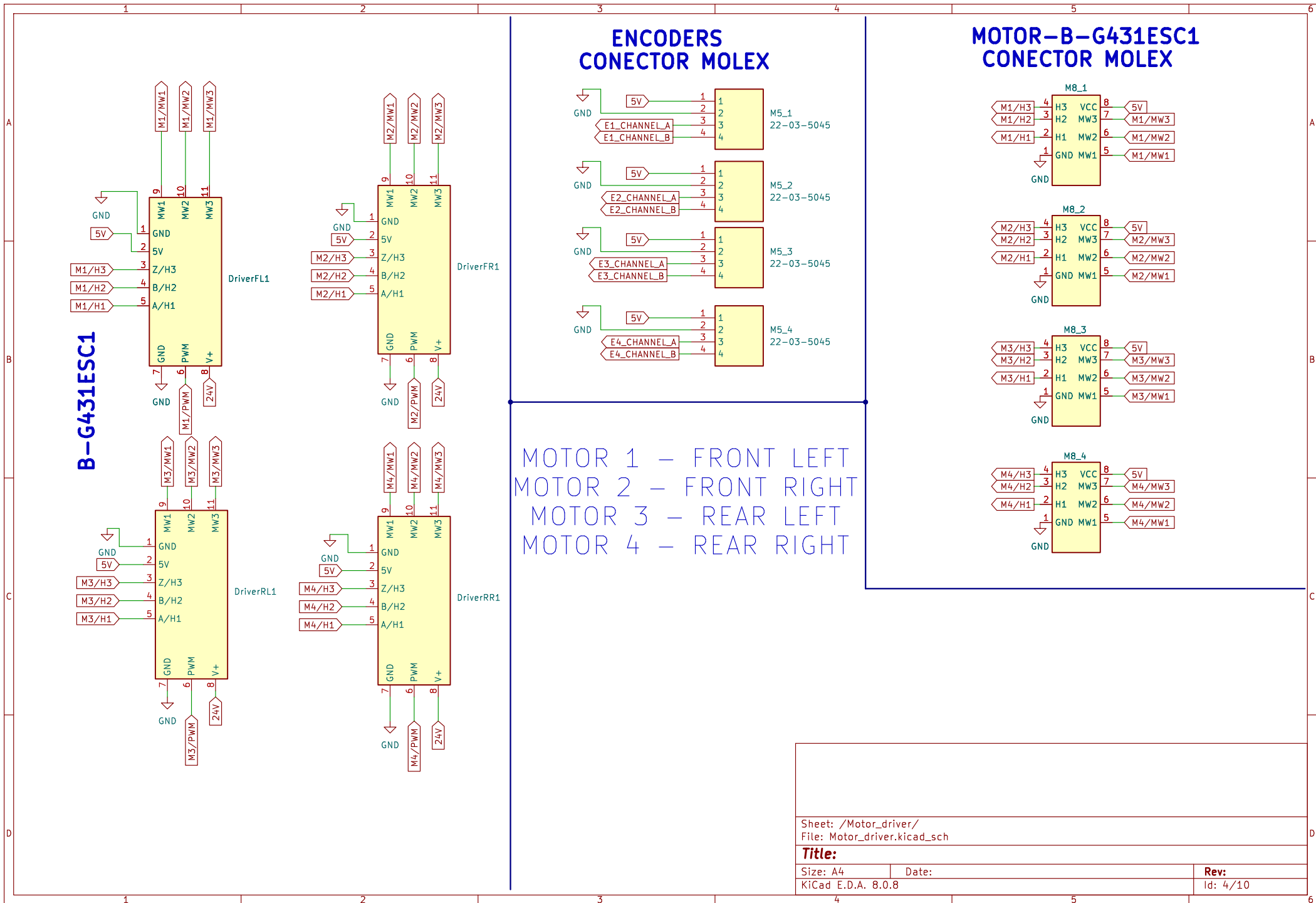
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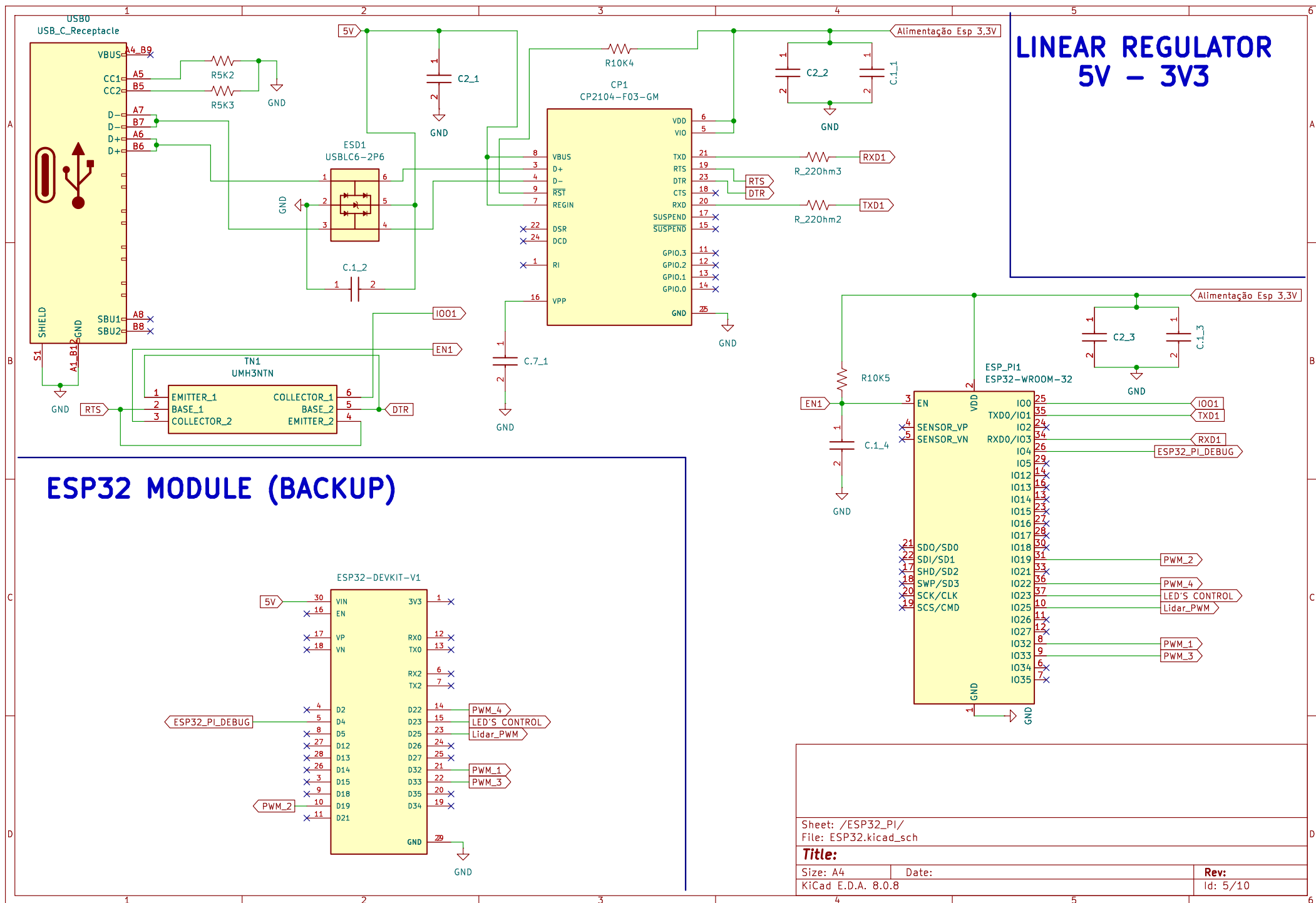
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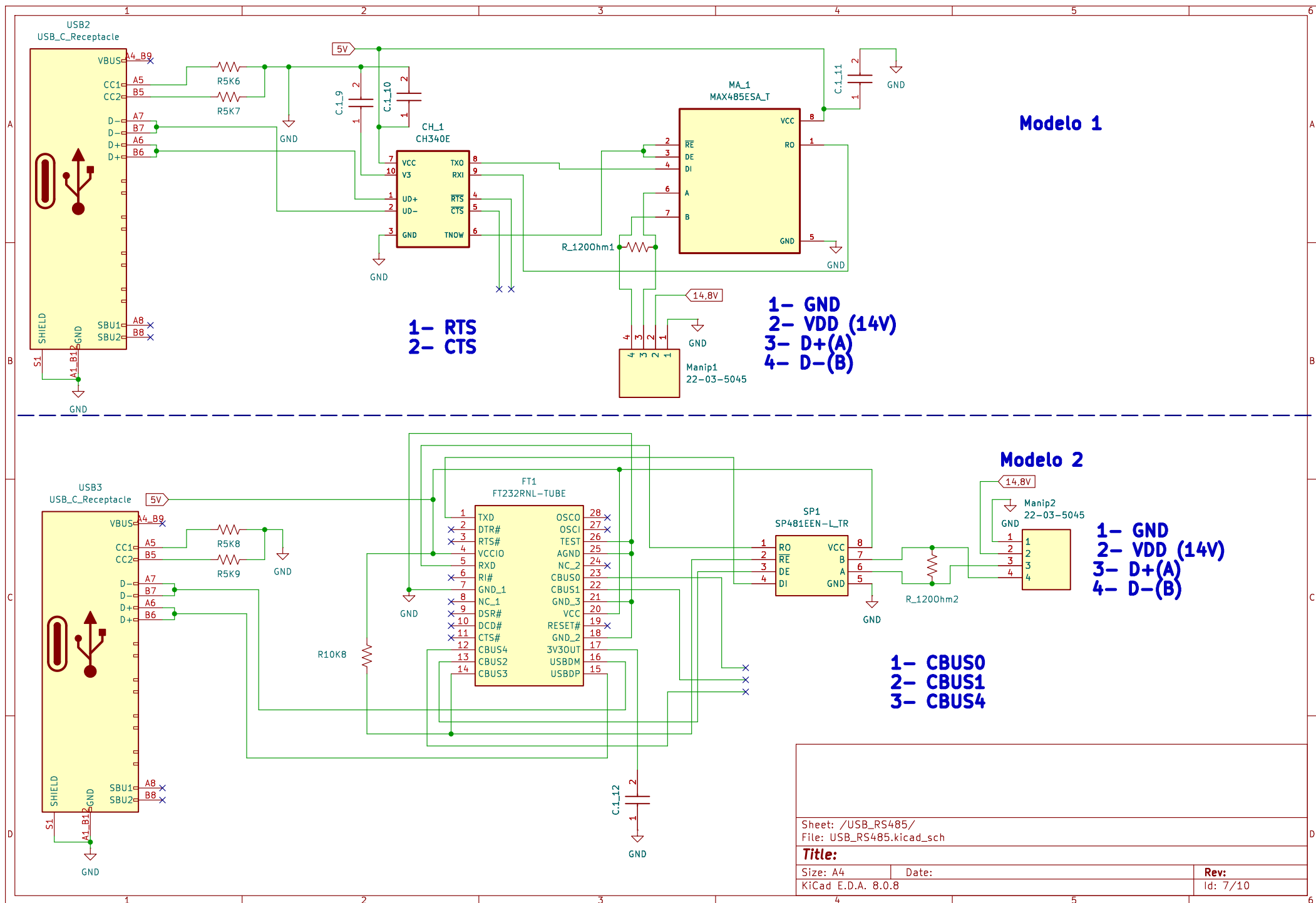
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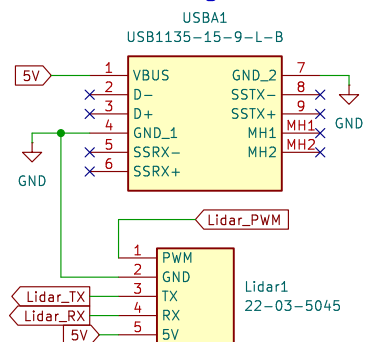
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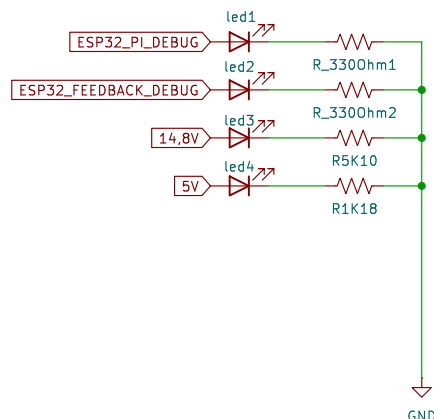




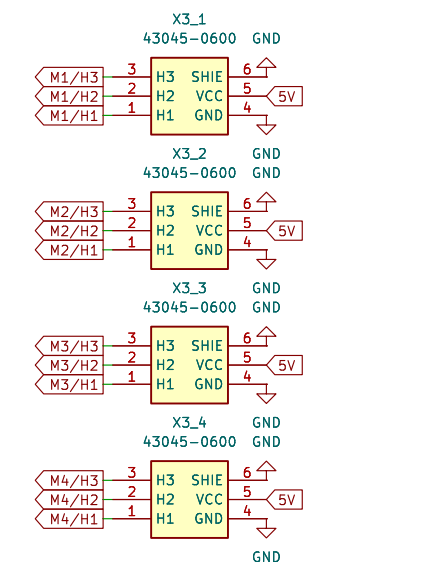
Alimentação lidar



LED'S de debug e estado

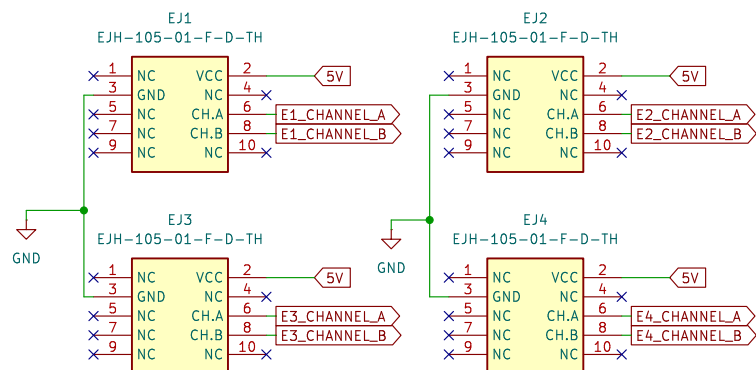


Motores X3

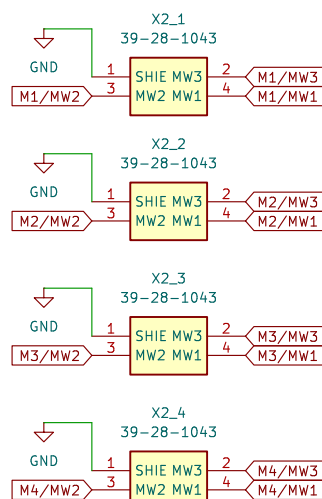


Conexões dos motores e Encoders por cabos pré-feitos

Encoders



Motores X2



Sheet: /miscellaneous/
File: miscellaneous.kicad_sch

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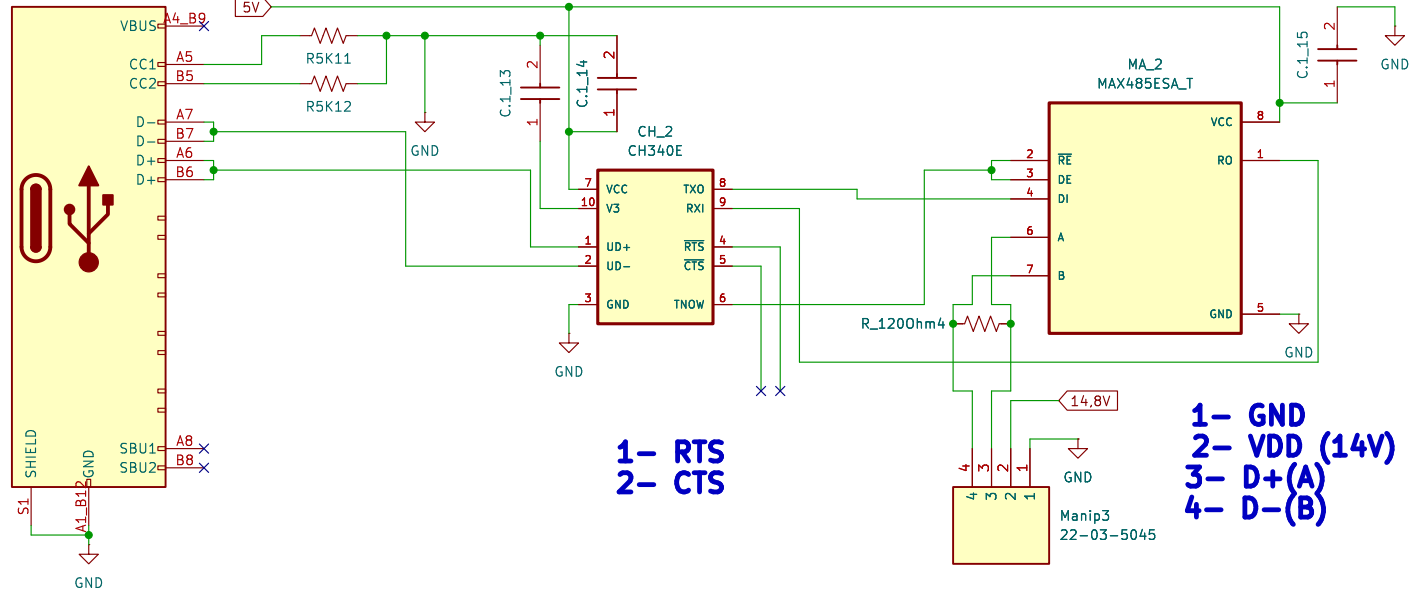
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KiCad E.D.A. 8.0.8

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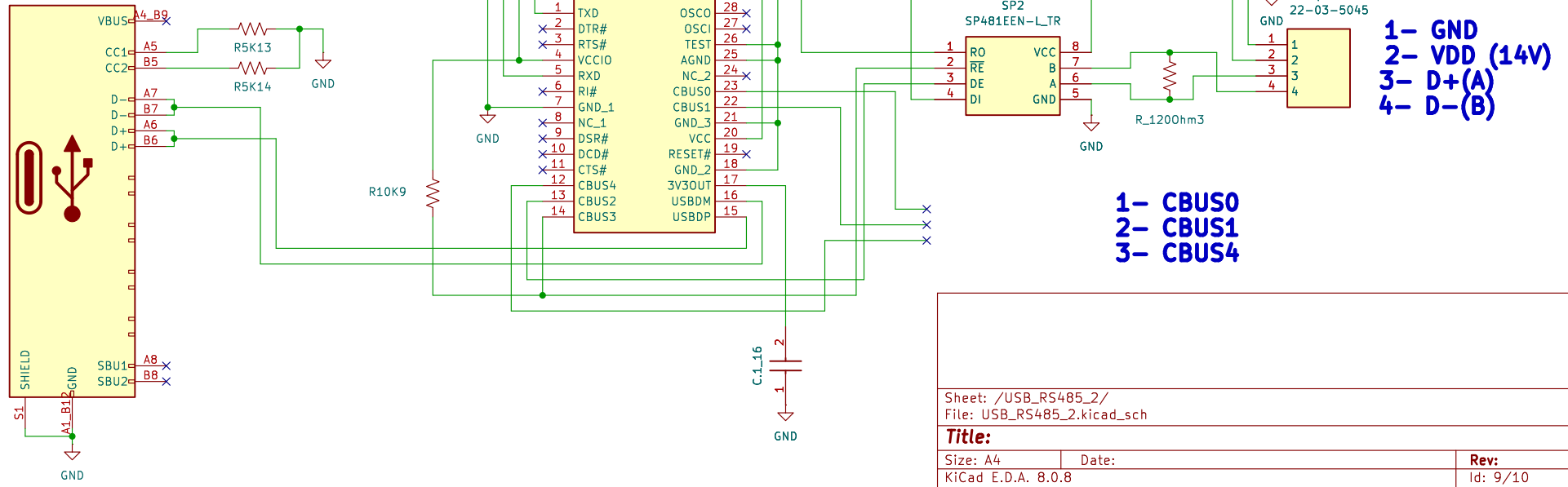
Id: 8/10

USB4
USB_C_Receptacle



Modelo 2 backup

USB5
USB_C_Receptacle



Sheet: /USB_RS485_2/	
File: USB_RS485_2.kicad_sch	
Title:	
Size: A4	Date:
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1	2	3	4	5	6
A	BOM MATERIAL LIST				
	Componente	Código/Vendedor	Código Placa	QTND.	
B	ssss	634-CP2104-F03-GM	CPX	2	
	USBLC6-2P6	511-USBLC6-2P6	ESDX	2	
	UMH3NTN	755-UMH3NTN	TNX	2	
	LMK212BJ475KG-T - Capacitor 4,7uF 10V	963-LMK212BJ475KG-T	C.7_X	2	
	LMK212SD104KG-T - Capacitor 0.1uF 10V	963-LMK212SD104KG-T	C.1_X	16	
	CL21A226KPCLRNC - Capacitor 22uF 10V	187-CL21A226KPCLRNC	C2_X	6	
	MAX485ESA+T - RS485 INTERFACE	700-MAX485ESAT	MA_X	2	
	CH340E - USB CONVERTER	C99652 / LCS	CH_X	2	
	USB4105-GF-A-060 - USB C	640-USB4105-GF-A-060	USBX	6	
	FT232RNL-TUBE - USB INTERPRETER	895-FT232RNL-TUBE	FTX	2	
C	SP481EEN-L/TR - RS485 INTERFACE	701-SP481EEN-L/TR	SPX	2	
	LM2596S-ADJ/NOPB - STEP DOWN	926-LM2596S-ADJ/NOPB	LMX	2	
	744777004 - INDUTOR 4,7uH	710-744777004	LX	2	
	EEU-FR1E221 - Capacitor 100uF 25VDC	667-EEU-FR1E221	COX	2	
	SS34 - DIODE	821-SS34	DX	2	
	C0603C681K4RACTU - Capacitor 680pF 16V	80-C0603C681K4R	CP	1	
	EEU-FR1V221 - Capacitor 220uF 35V	667-EEU-FR1V221	CIX	2	
	LM358ST - Duplo amplificador, sensor hall	511-LM358S	LMSX	2	
	22-03-5045 - Conector molex 5 vias	538-22-03-5045	M5_X	4	
	22-03-5085 - Conector molex 8 vias	538-22-03-5085	M8_x	4	
D	USB1135-15-9-L-B - USB A	640-USB1135-15-9-L-B	USBA	1	
	EJH-105-01-F-D-TH	200-EJH10501FDTH	EJX	4	
	39-28-1043 - X2	538-39-28-1043	X2_X	4	
	43045-0600 - X3	538-43045-0600	X3_X	4	
	Resistor 0,1 Ohm (Potencia)		R.1_X	2	
	Resistor 100K ohm		R1KKX	11	
	Resistor 10K ohm		R10KX	9	
	Resistor 5 K ohm		R5KX	14	
	Resistor 1K ohm		R1KX	20	
	Resistor 500 ohm		R.5KX	5	
	LM741 - Cl ampliicador		AMX	5	
	IR540N - MOSFET		MosfetX	5	
	22-03-5035 - Conector molex 3 vias	538-22-03-5035	LED	1	
Sheet: /TOC/ File: TOC.kicad_sch					
Title:					
Size: A4			Date:	Rev:	
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