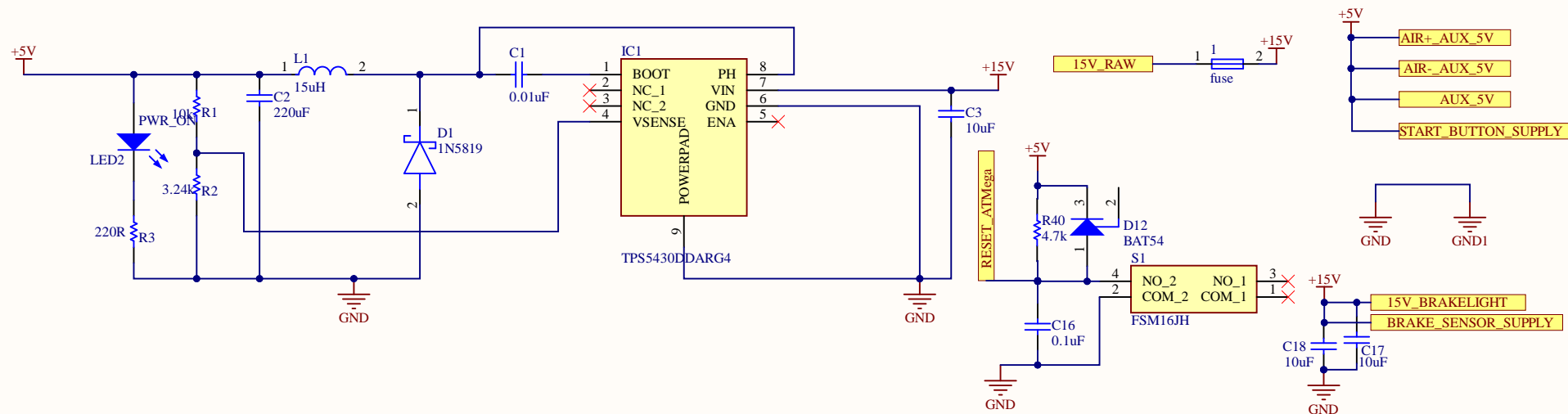
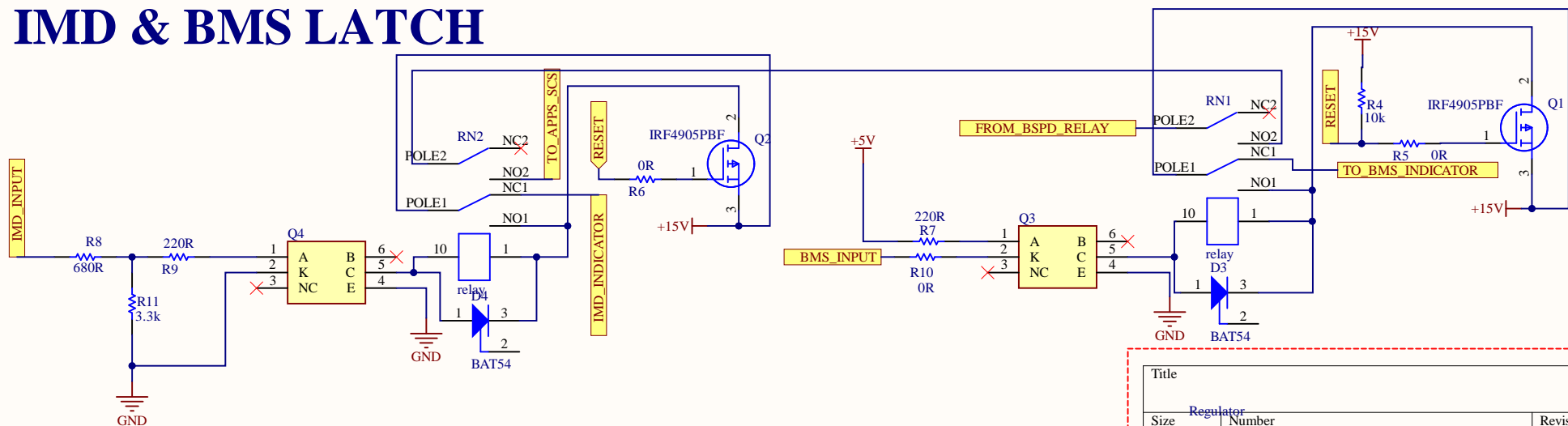


POWERSTAGE

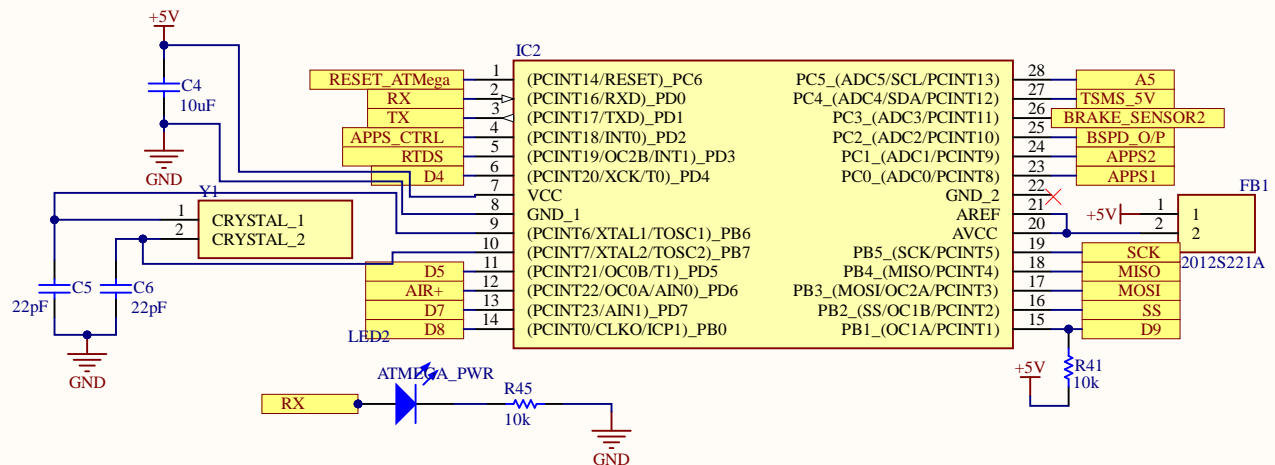


IMD & BMS LATCH

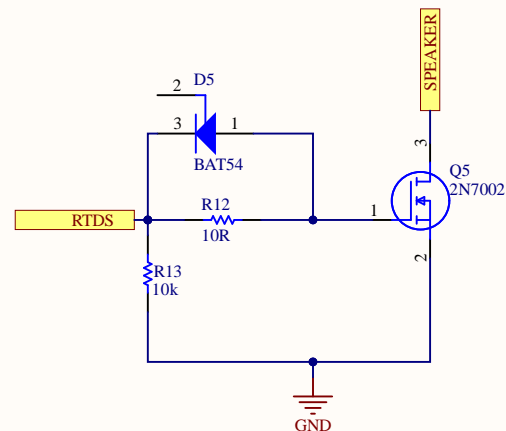


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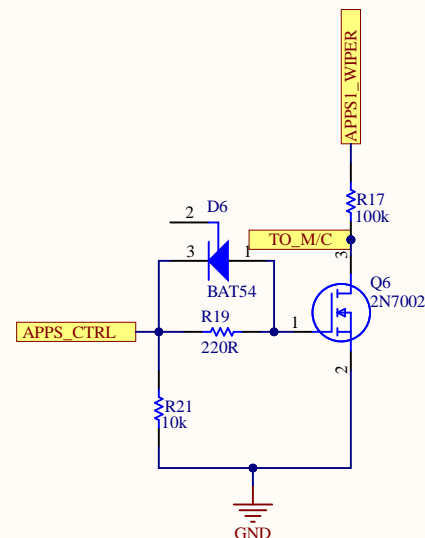
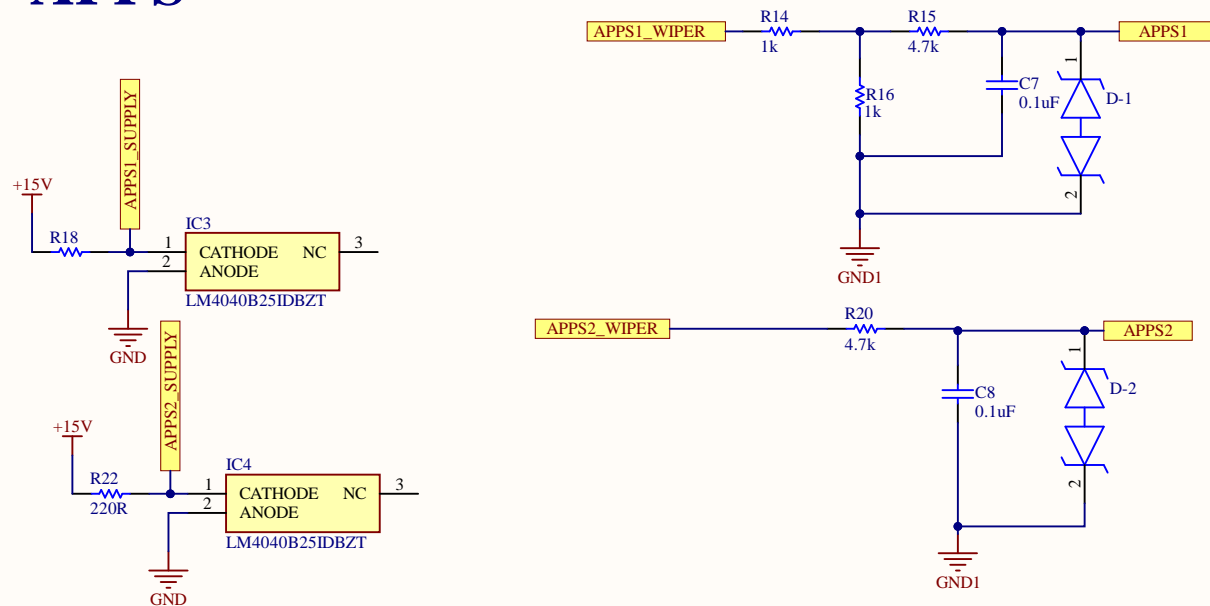
CONTROLLER



RTDS

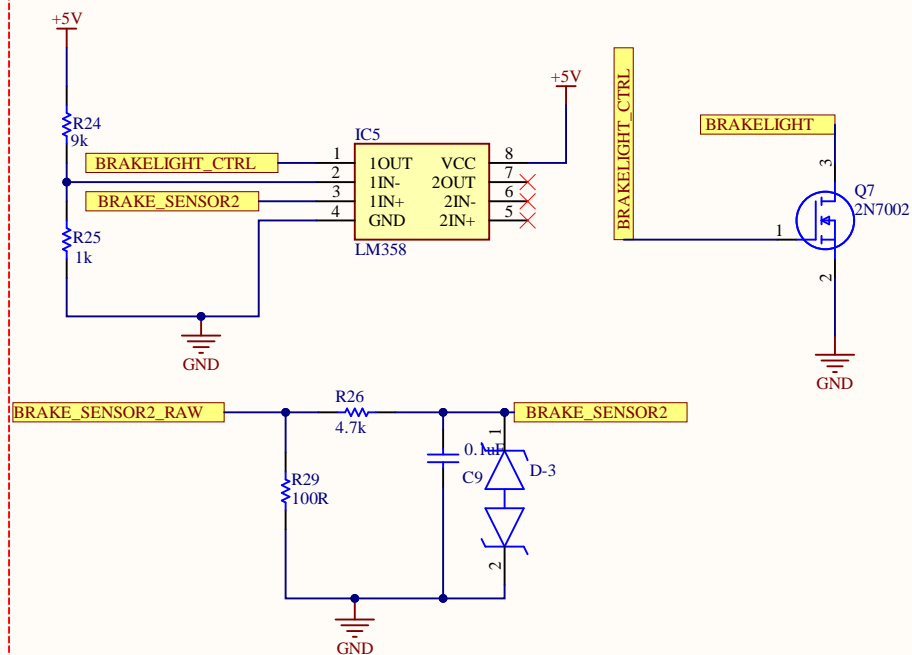


APPS

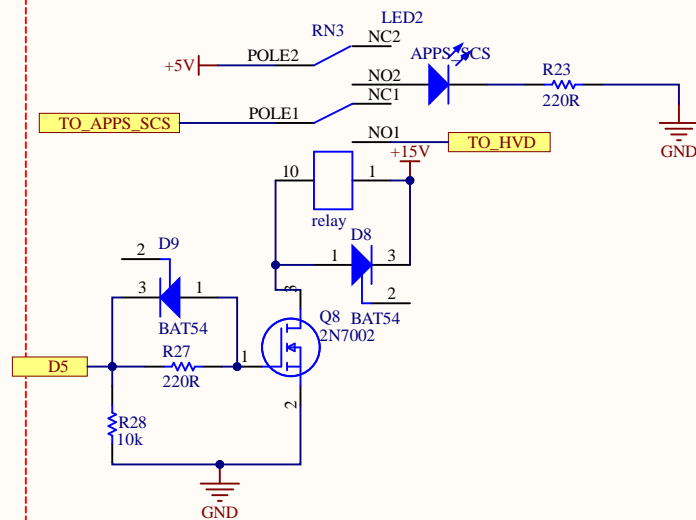


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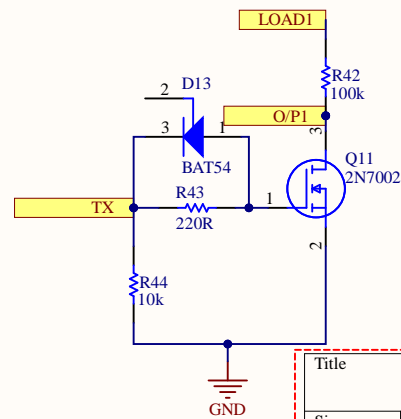
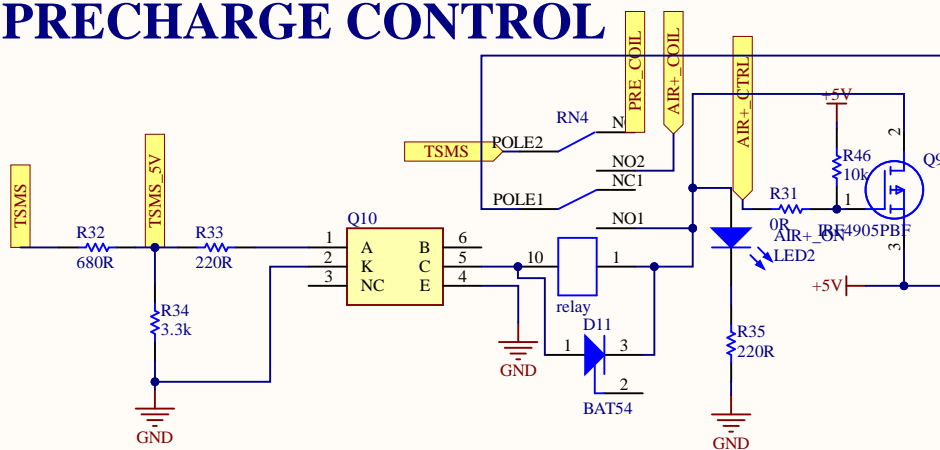
BRAKELIGHT



APPS_SCS



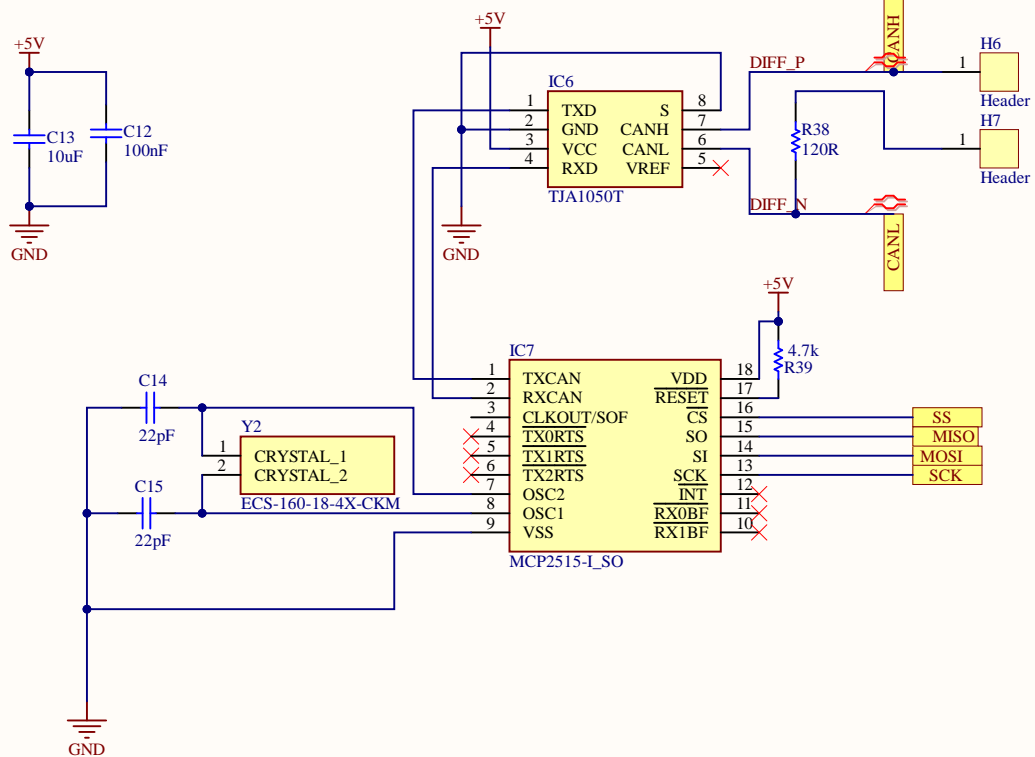
PRECHARGE CONTROL



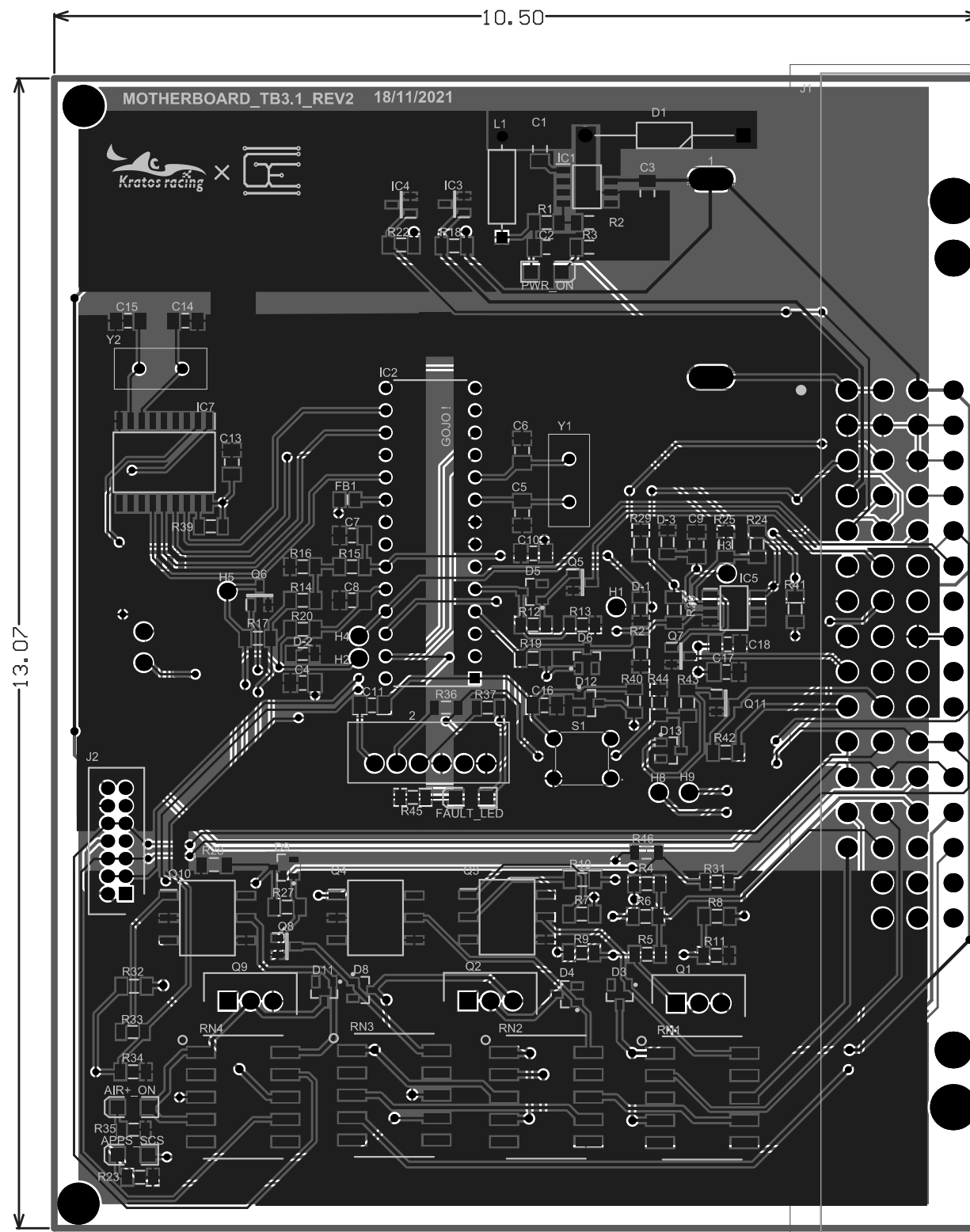
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Size A4	Number	Revision
Date:	12-22-2021	Sheet of
File:	D:\users\...\Sheet4.SchDoc	Drawn By:

CAN_MODULE



Title		
Size	Number	Revision
A4		
Date:	12-22-2021	Sheet of
File:	D:\users\...\Sheet5.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
fuse		1	fuse		1
FTDI_connector		2	ARDUINO_MEGA_NO_SILK	FTDI_connector	1
LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	AIR<, ON, APPS_SCS, ATMEGA_PWR, PWR_ON	3.2X1.6X1.1	LED2	4
0.01uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C1, C10	KEMT-1206-2_N	CMP-1037-04202-2	2
220uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C2	KEMT-1206-2_N	CMP-1037-04202-2	1
10uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C3, C4, C11, C13, C17, C18	KEMT-1206-2_N	CMP-1037-04202-2	6
22pF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C5, C6, C14, C15	KEMT-1206-2_N	CMP-1037-04202-2	4
0.1uF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C7, C8, C9, C16	KEMT-1206-2_N	CMP-1037-04202-2, CAPACITOR	4
100nF	CAP, Ceramic, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 1206 (3216 Metric), RoHS, Tape and Reel	C12	KEMT-1206-2_N	CMP-1037-04202-2	1
1N5819	Schottky Diode	D1	D10AD1796W86L628D292	1N5819	1
BAT54	Silicon Schottky Diode, SOT23, Reel, Green	D3, D4, D5, D6, D8, D9, D11, D12, D13	INF-SOT23_N	CMP-1182-00010-1	9
TPD1E6806DPLR		D-1, D-2, D-3	R1206	TPD1E6806DPLR	3
MPZ2012S221A	Ferrite Bead	FB1	BEADC2012X105N	MPZ2012S221A	1
Header		H1, H2, H3, H4, H5, H6, H7, H8, H9	Header	Header	9
TPS5430DDARG4	Integrated Circuit	IC1	SOIC127P600X175-8N	TPS5430DDARG4	1
ATMEGA328-PU	Integrated Circuit	IC2	DIP1016W53P254L346 8H457Q28N	ATMEGA328-PU	1
LM4040B25IDBZT	Integrated Circuit	IC3, IC4	SOT195P237X112-3N	LM4040B25IDBZT	2
LM358	Integrated Circuit	IC5	SOP100P600X150-8N	LM358	1
TJA1050T	Integrated Circuit	IC6	SOIC127P600X175-8N	TJA1050T	1
MCP2515-I_SO	Integrated Circuit	IC7	SOIC127P1030X265-18N	MCP2515-I_SO	1
1-1418362-3	Connector	J1	114183623	1-1418362-3	1
87831-1420	Connector	J2	SHDR14W56P200_2X7 1665X630X640P	87831-1420	1
15uH	IR-2 10 10% B08	L1	FP-IR02-MFG	CMP-03630-000001-1	1
IRF4905PBF	MOSFET (P-Channel)	Q1, Q2, Q9	TO254P469X1042X196 7-3P	IRF4905PBF	3
MCT2ESM	Phototransistor	Q3, Q4, Q10	SOT254P916X480-6N	MCT2ESM	3
2N7002	MOSFET (N-Channel)	Q5, Q6, Q7, Q8, Q11	SOT196P240X120-3N	2N7002	5
10k		R1, R4, R13, R21, R28, R41, R44, R45	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	8
3.24k		R2	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	1
220R		R3, R7, R9, R19, R22, R23, R27, R43	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	8
0R		R5, R6, R10	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	3
680R		R8, R32	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	2
3.3k		R11, R34	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	2
10R		R12	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	1
1k		R14, R16, R25	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	3
4.7k		R15, R20, R26	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	3
100k		R17, R42	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	2
CRCW120647K0FKEA		R18	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	1
9k		R24	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	1
100R		R29	RES3216X60X45NL10 T20 - duplicate	CMP-2003-02213-1	1
0R		R31, R36, R37	R1206	RES	3
220R		R33, R35	R1206	RES	2
120R		R38	R1206	RES	1
4.7k		R39, R40	R1206	RES	2
10k		R46	R1206	RES	1
relay		RN1, RN2, RN3, RN4	relaytq	relay	4
FSM16JH	Switch	S1	FSM16JH	FSM16JH	1
ECS-160-18-4X-CKM	Crystal or Oscillator	Y1, Y2	ECS160184XCKM	ECS-160-18-4X-CKM	2