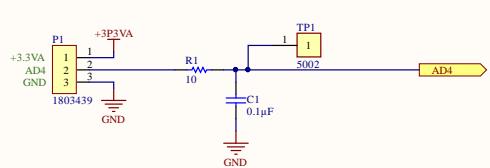
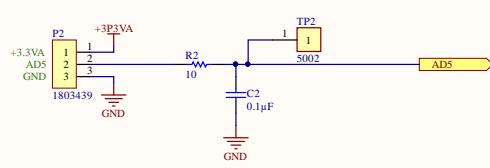


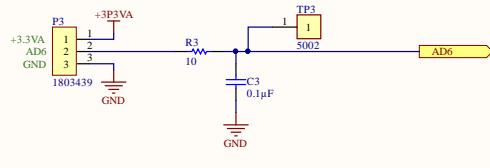
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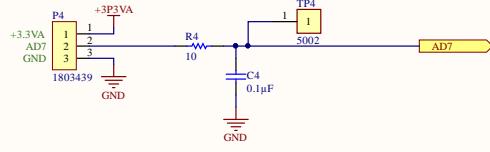
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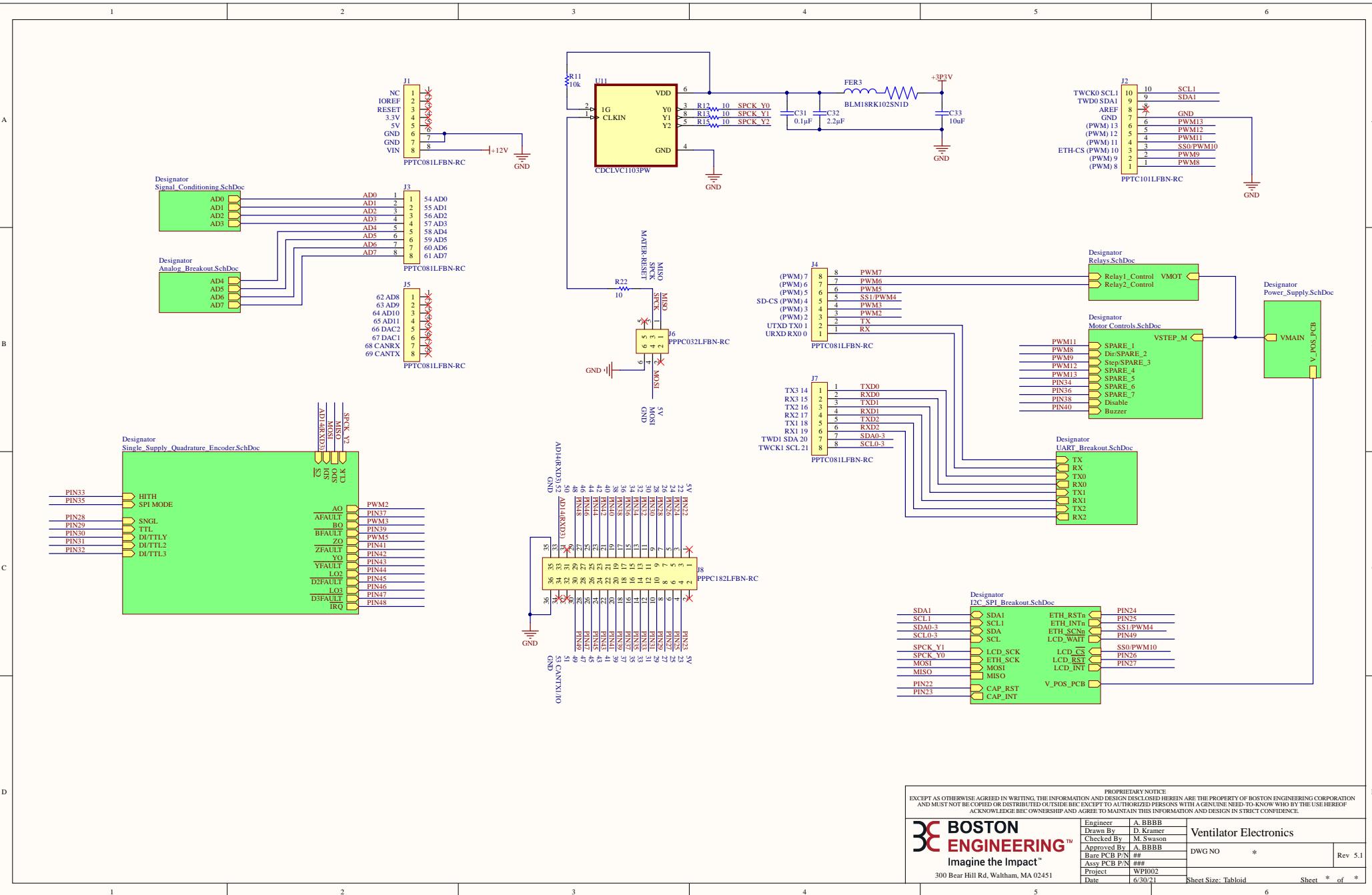


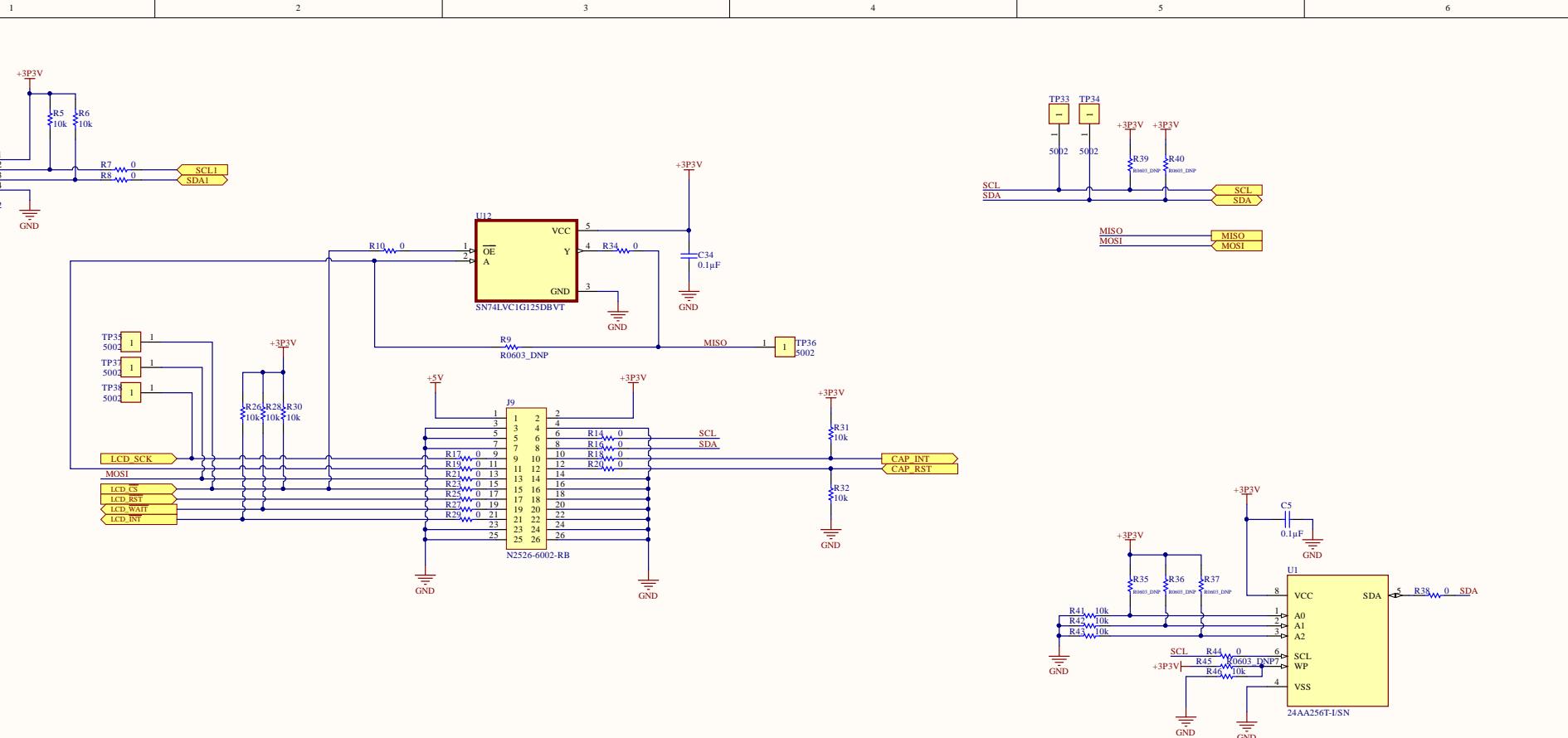
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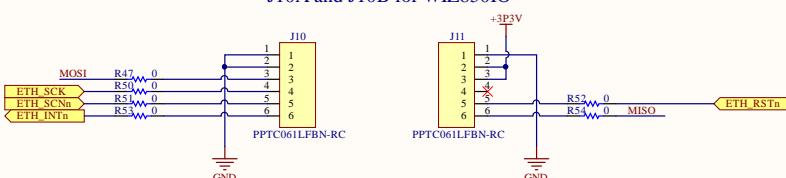
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<b>BOSTON</b> <b>ENGINEERING™</b>	Engineer: A. BBBB	Ventilator Electronics
Imagine the Impact™	Drawn By: D. Kramer	
300 Bear Hill Rd, Waltham, MA 02451	Approved By: M. Swanson	
	Bare PCB P/N: BBBB	DWG NO: *
	Assy PCB P/N: ##	Rev: 4
Project: WP1002	Date: 5/28/21	Sheet Size: Tabloid
		Sheet * of *



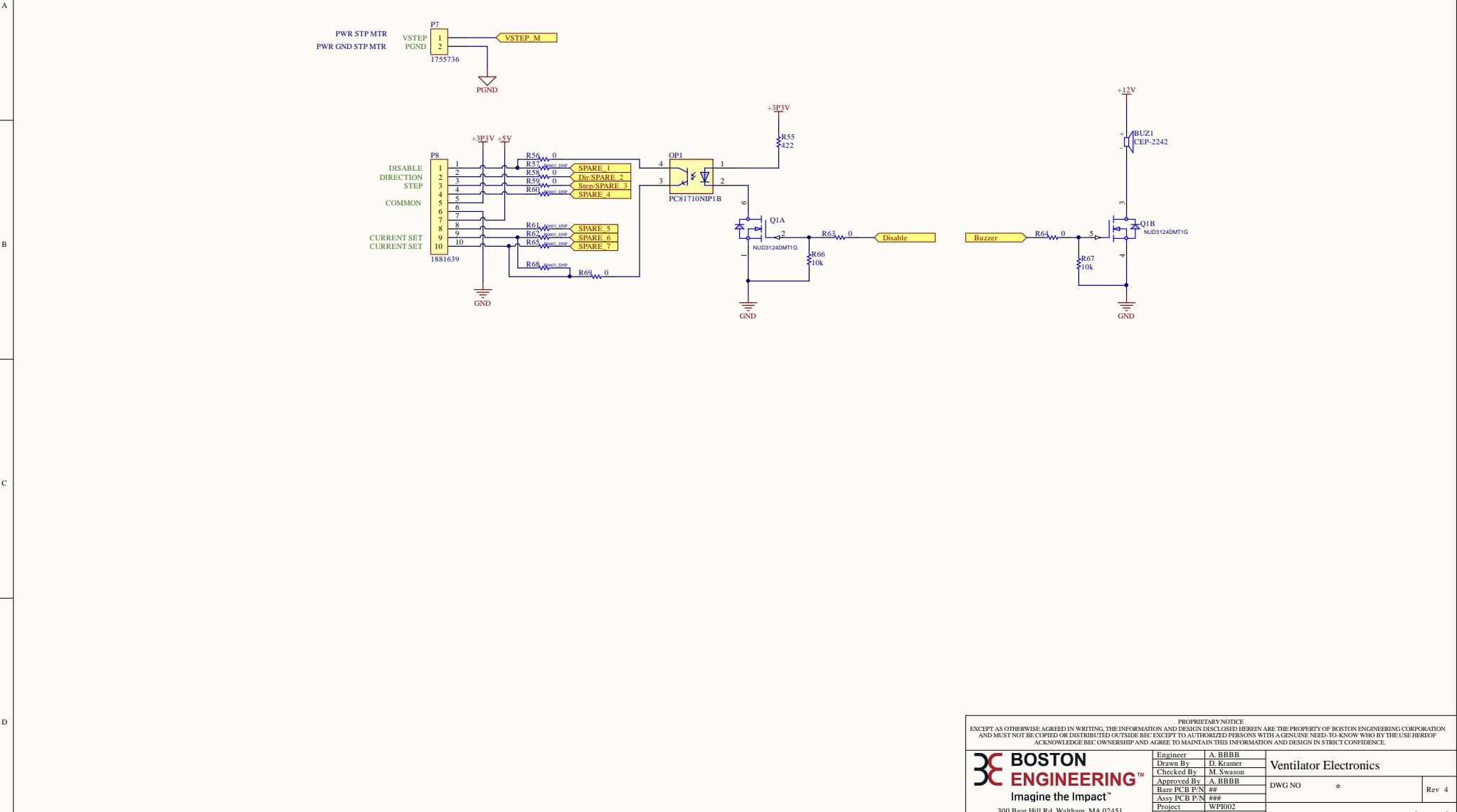


J10A and J10B for WIZ850IO



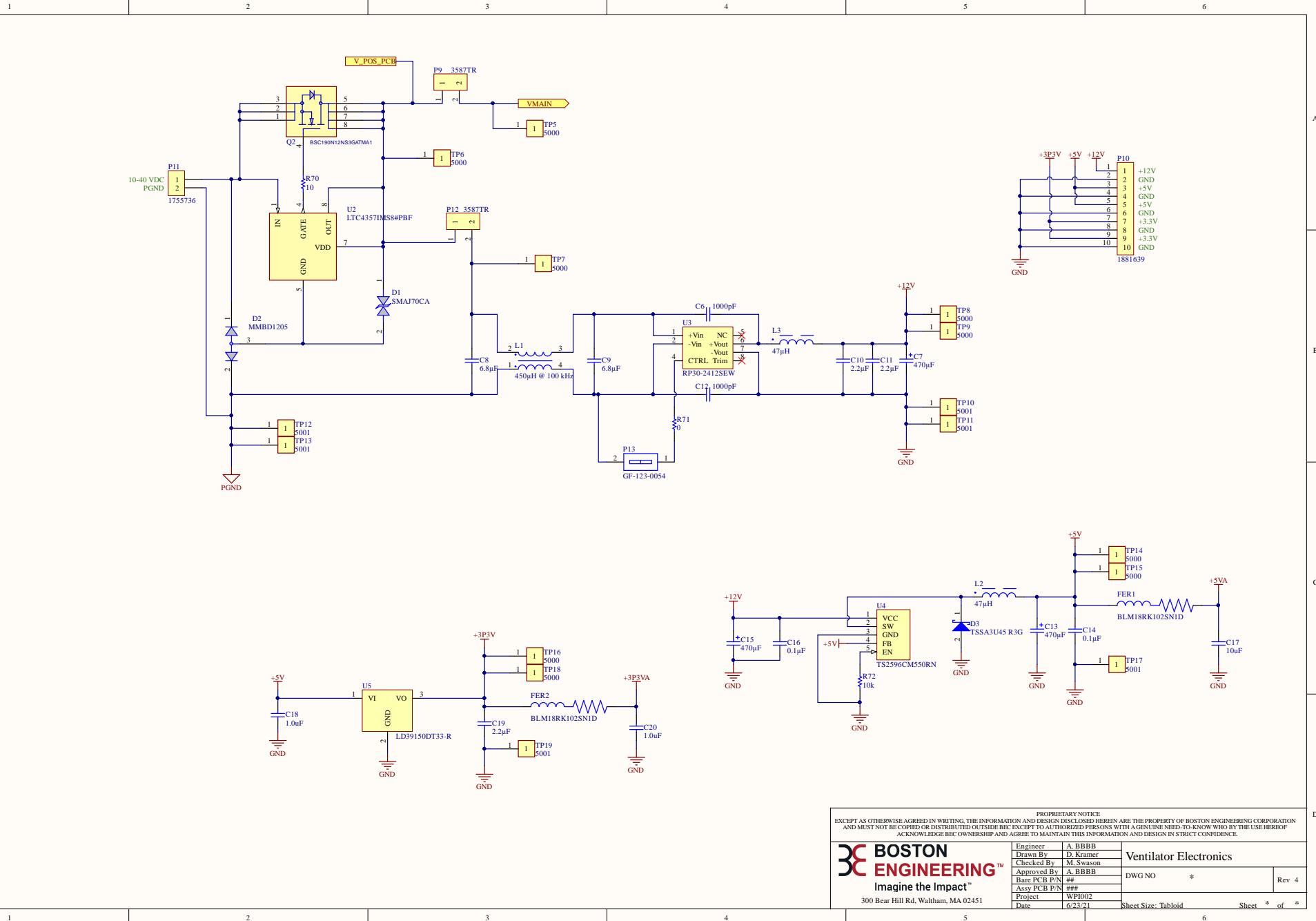
PROPRIETARY NOTICE		Ventilator Electronics			
Drawn By	D. Kramer	Approved By	M. Swanson	Bare PCB P/N	BBBB
Reviewed By				Assy PCB P/N	##
Project	WPI002	Date	7/6/21	DWG NO	*
				Sheet Size:	Tabloid
				Rev	4

**BOSTON  
ENGINEERING™**  
Imagine the Impact™  
300 Bear Hill Rd, Waltham, MA 02451



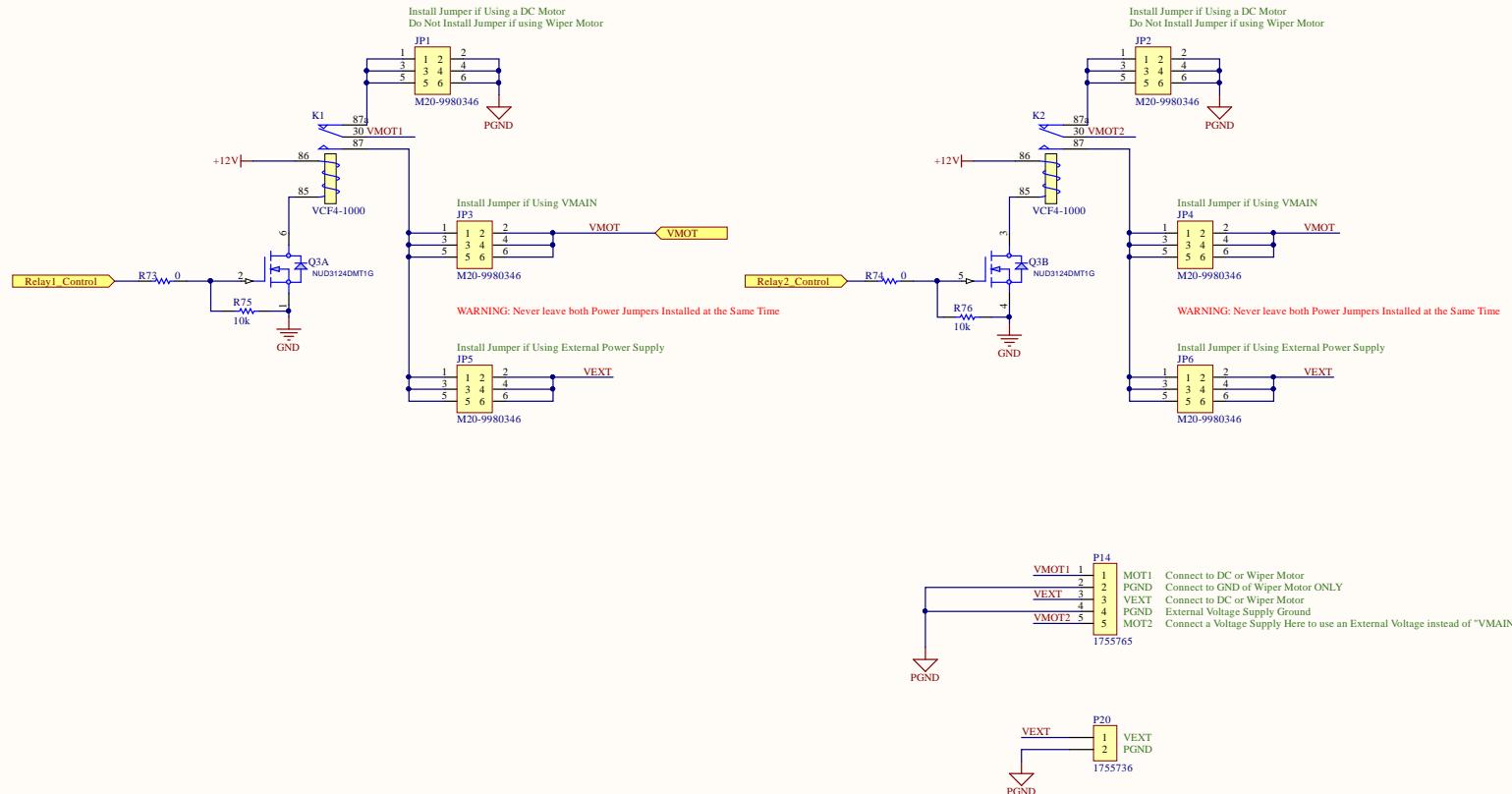
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<b>BOSTON</b> <b>ENGINEERING™</b> Imagine the Impact™ 300 Bear Hill Rd, Waltham, MA 02451	Engineer: A. BBBB Drawn By: D. Kramer Approved By: M. Swanson Bare PCB P/N: #### Assy PCB P/N: #### Project: WP1002 Date: 7/6/21	Ventilator Electronics DWG NO: * Rev 4 Sheet Size: Tabloid Sheet * of *
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<b>BOSTON</b> <b>ENGINEERING™</b>	Engineer Drawn By Reviewed By Approved By Bare PCB P/N Assy PCB P/N Project Date	A. BBBB D. Kramer M. Swanson BBBB # # # # # # # # WP1002 6/23/21	Ventilator Electronics
Imagine the Impact™		DWG NO * Rev 4	
300 Bear Hill Rd, Waltham, MA 02451		Sheet Size: Tabloid	Sheet * of *

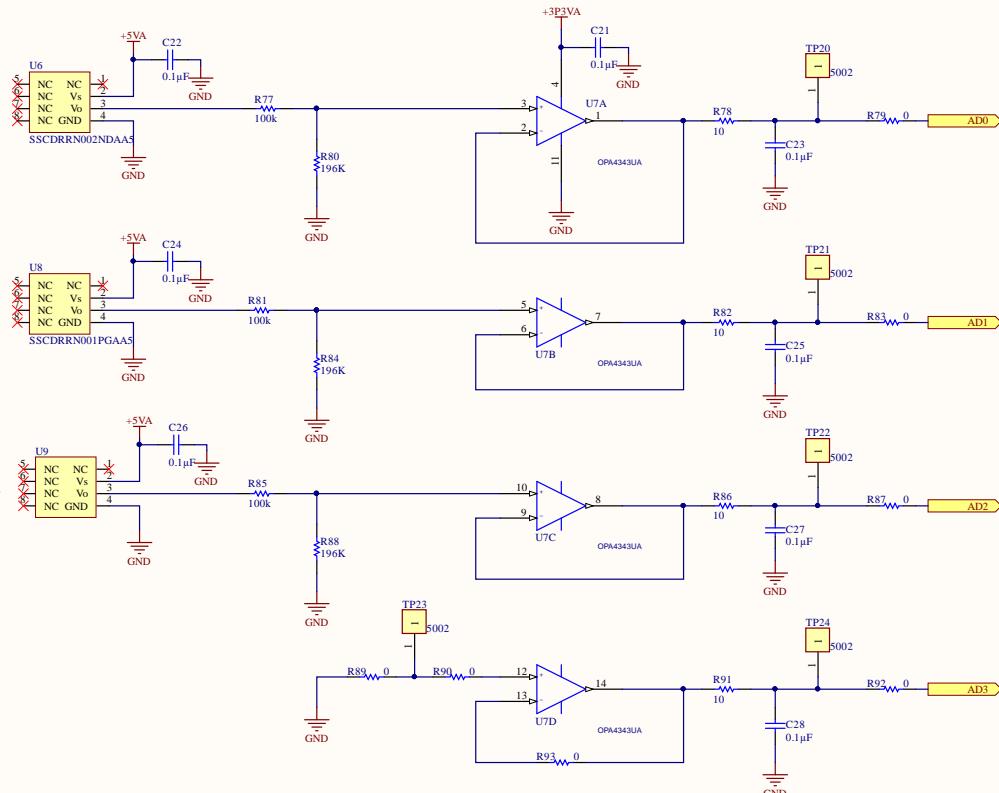


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Engineer	A. BBBB	Ventilator Electronics
Drawn By	D. Krame	
Reviewed By	M. Swanson	
Approved By	BBBB	
Bare PCB P/N	##	DWG NO *
Assy PCB P/N	###	Rev 4
Project	WP1002	
Date	5/28/21	Sheet Size: Tabloid
		Sheet * of *

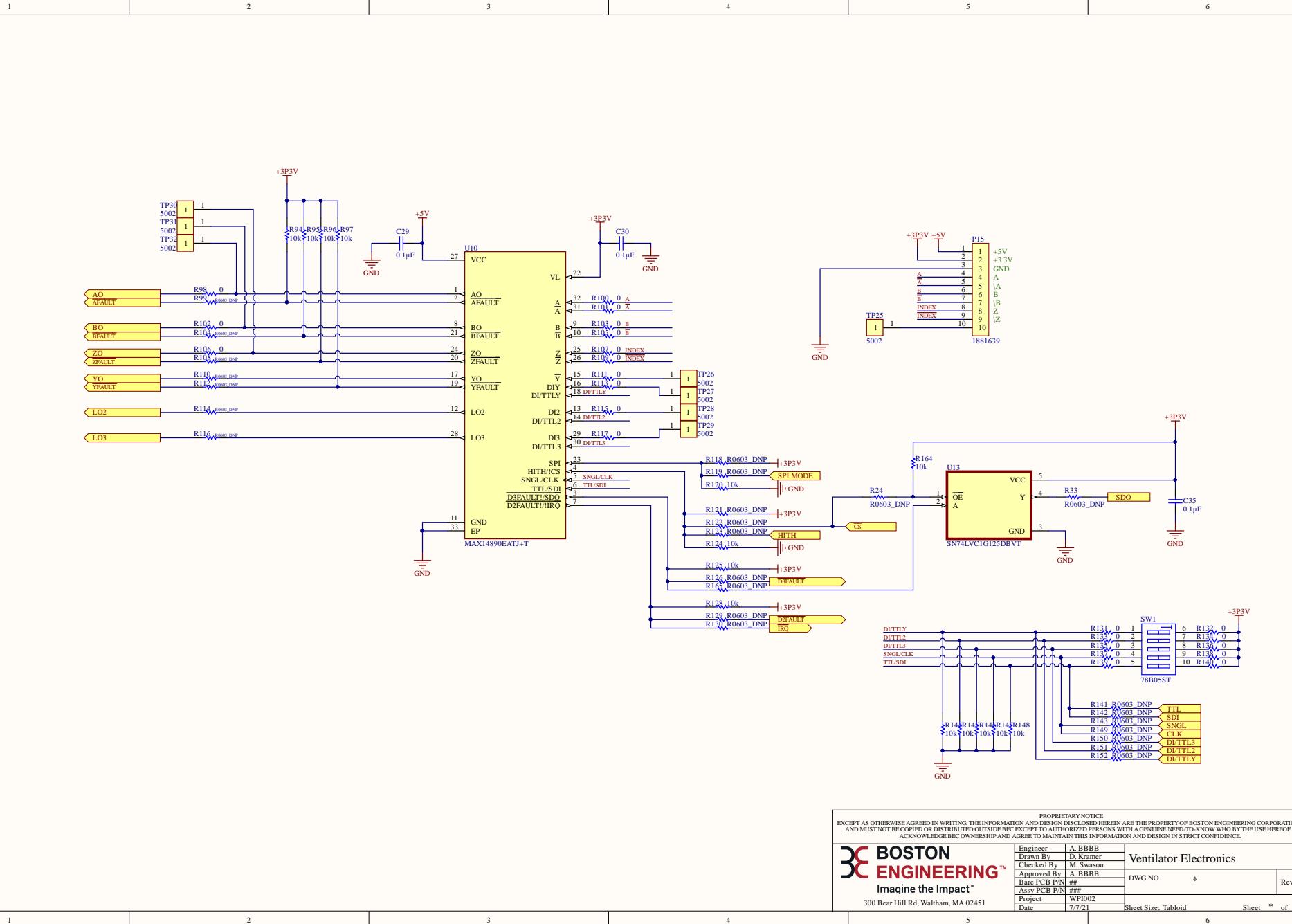
DO NOT POPULATE



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Engineer	A. BBBB	Ventilator Electronics
Drawn By	D. Kramec	
Checked By	M. Swanson	
Approved By	M. Swanson	
Bare PCB P/N	BBBB	
Assy PCB P/N	###	
Project	WP1002	DWG NO * Rev 4
Date	7/6/21	Sheet Size: Tabloid Sheet * of *

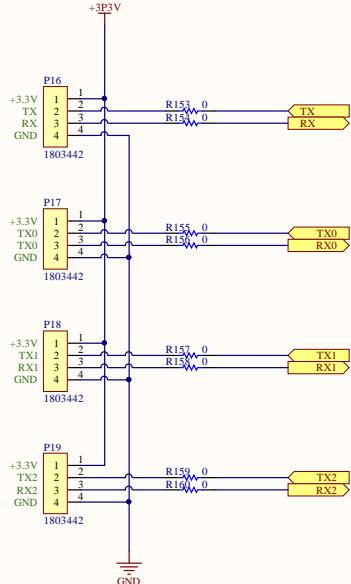


A A

B B

C C

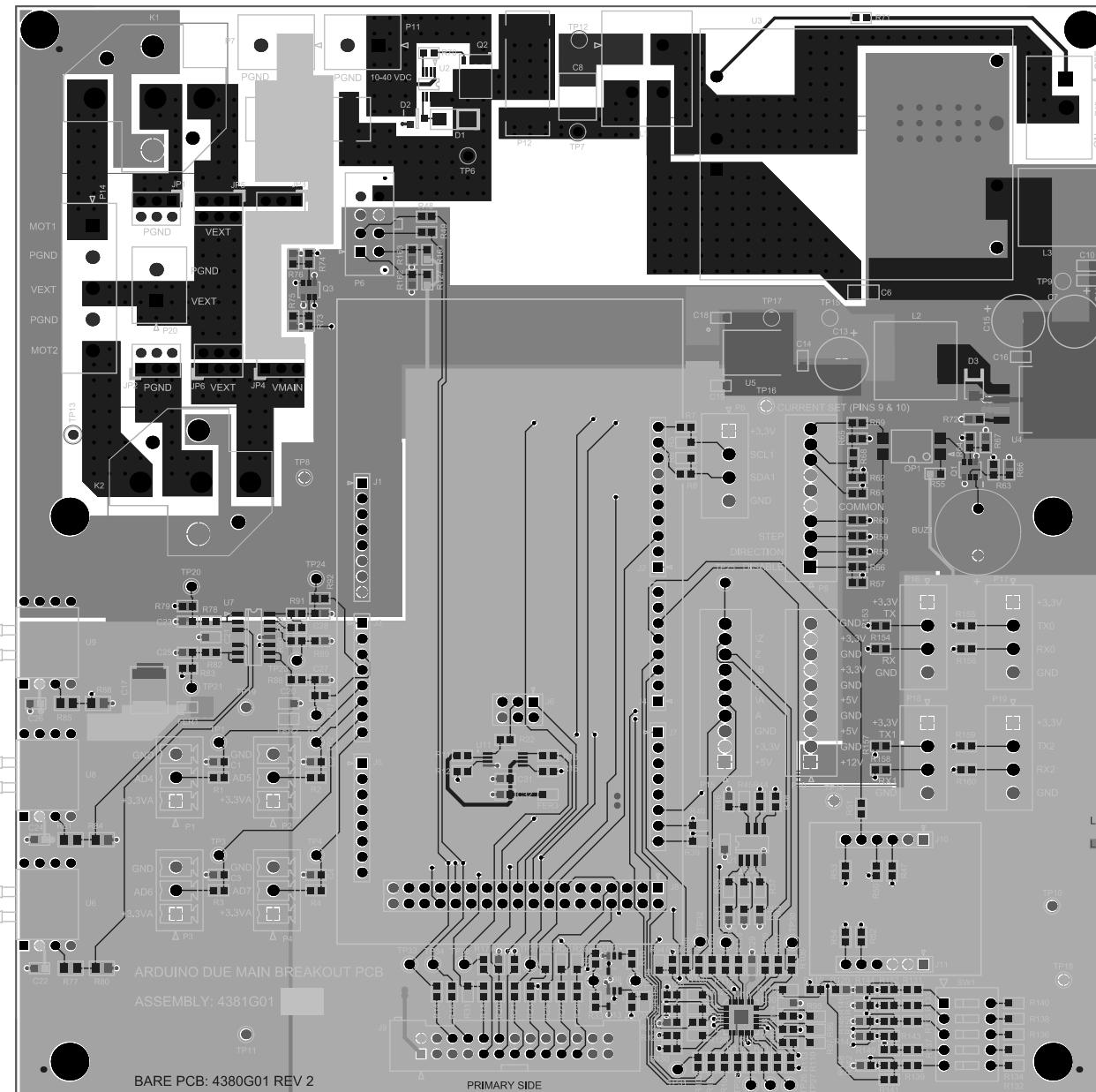
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Imagine the Impact™	Drawn By D. Kramer	
300 Bear Hill Rd, Waltham, MA 02451	Approved By M. Swanson	
	Bare PCB P/N # BBBB	DWG NO *
	Assy PCB P/N ###	Rev 4
Project WP1002	Date 5/28/21	Sheet Size: Tabloid
		Sheet * of *

	TITLE: ARDUINO DUE MAIN BREAKOUT PCB	
DATE: 7/19/21	PART NO.: 4380G01	REV: 2
FILE NAME: <i>Arduino Due Main Breakout PCB</i>	LAYER: <i>Bottom Overlay</i>	



Comment	Description	Designator	Footprint	LibRef	Quantity
C EP-2242	Audio Indicators & A	BUZ1	C EP-2242	C EP-2242	1
0.1µF	Cap Ceramic 0.1uF	C1, C2, C3, C4, C5, C6	C 0603	CC 0603KRX7R0BB10	20
1000pF	CAP CER 1000PF 2K	C6, C12	C 1206	CL31B102KJHNNNE	2
470µF	CAP ALUM 470UF 20V	C7, C13, C15	860020474014	860020474014	3
6.8µF	CAP CER 6.8UF 100V	C8, C9	C 2220	KTS101B685K55F0T0	2
2.2µF	CAP CER 2.2UF 25V	C10, C11, C19, C32	C 0603	CC 0603KRX6R8BB22	4
10µF	CAP CER 10UF 100V	C17, C33	C 2220	C 5750X7S2A106K230	2
1.0µF	CAP CER 1UF 50V X5R	C18, C20	C 0603	UMK107BJ105KA-T	2
SMAJ70CA	TVS DIODE 70VMM	D1	DSMA		1
MMBD1205	DIODE ARRAY GP 10	D2	SO T-23-3		1
TSSA3U45 R3G	DIODE SCHOTTKY 45D3		DO-214AC	TSSA3U45 R3G	1
BLM18RK102SN1D	FERRITE BEAD 1KΩ	FER1, FER2, FER3	R0603	BLM18RK102SN1D	3
PPTC081LFBN-RC	CONN HDR 8POS 0.1J	J1, J3, J4, J5, J7	PPTC081LFBN-RC	PPTC081LFBN-RC	5
PPTC101LFBN-RC	CONN HDR 10POS 0.1J	J2	PPTC101LFBN-RC	PPTC101LFBN-RC	1
PPPC032LFBN-RC	CONN HDR 6POS 0.1J	J6	PPPC032LFBN-RC	PPPC032LFBN-RC	1
PPPC182LFBN-RC	CONN HDR 36POS 0.1J	J8	PPPC182LFBN-RC	PPPC182LFBN-RC	1
N2526-6002-RB	CONN HEADER VERT	J9	3MN2526-6002-RB	N2526-6002-RB	1
PPTC061LFBN-RC	CONN HDR 6POS 0.1J	J10, J11	PPTC061LFBN-RC	PPTC061LFBN-RC	2
M20-9980346	CONN HEADER VERT	JP1, JP2, JP3, JP4, JP5	M20-9980346	M20-9980346	6
VCF4-1000	RELAY SOCKET 5POS	K1, K2	TE_VCF4-1000	VCF4-1000	2
450µH @ 100 kHz	C MC 450UH 6.5A 2IN	L1	7448227005	7448227005	1
47µH	FIXED IND 47uH 3.8A	L2, L3	7447709470	7447709470	2
PC 81710NIP1B		OP1	4SMD	PC 81710NIP1B	1
1803439	TERM BLOCK HDR 3P	P1, P2, P3, P4	1803439	1803439	4
1803442	TERM BLOCK HDR 4P	P5, P16, P17, P18, P1	1803442	1803442	5
43045-0828	CONN HEADER VERT	P6	43045-0828	43045-0828	1
1755736	TERM BLOCK HDR 2P	P7, P11, P20	1755736	1755736	3
1881639	TERM BLOCK HDR 10P	P8, P10, P15	1881639	1881639	3
3587TR	FUSE HOLDER BLADE	P9, P12	3587TR	3587TR	2
GF-123-0054	SWITCH SLIDE SPST	P13	GF-123-0054	GF-123-0054	1
1755765	TERM BLOCK HDR 5P	P14	1755765	1755765	1
NUD3124DMT1G	IC PWRS DRIVER N-C	Q1, Q3	SC-746	NUD3124DMT1G	2
BSC190N12NS3GATM	MOSFET N-CH 12V	Q2	POWERPAK_SO-8	BSC190N12NS3GATM	1
10	RES SMD 10 OHM	R1, R2, R3, R4, R12, R13	R0603	RC 0603FR-0710RL	13
10k	RES SMD 10K OHM	R5, R6, R11, R26, R27	R0603	RC 0603FR-0710KL	31
0	RES SMD 0OHM JU	R7, R8, R10, R14, R15	R0603	RC 0603JR-070RL	74
R0603_DNP		R9, R24, R33, R35, R	R0603_DNP	R0603_DNP	40
422	RES SMD 422 OHM	R55	R0603	RC 0603FR-0742RL	1
100k	RES SMD 100K OHM	R77, R81, R85	R0805	RG 2012P-104-B-T5	3
196K	RES SMD 196K OHM	R80, R84, R88	R0805	RG 2012P-1963-B-T5	3
78B05ST	SWITCH SLIDE DIP SSWI		78B05ST	78B05ST	1
5002	PC TEST POINT MINI	TP1, TP2, TP3, TP4	KEYSTONE_5002	5002	23
5000	PC TEST POINT MINI	TP5, TP6, TP7, TP8	KEYSTONE_5000	5000	9
5001	PC TEST POINT MINI	TP10, TP11, TP12, T	KEYSTONE_5001	5001	6
24AA256T-I/SN	IC EEPROM 256KBIT	U1	8SOIC	24AA256T-I/SN	1
LTC4371MS8	IC OR CTRRN+N+18M	U2	8MSOP		1
RP30-2412SEW	Single, Isolated Mod	U3	RP 30-EW	RP 30-2412SEW	1
TS2596CM550RN	IC REG BUCK 5V 3A	U4	TS2596CM550RN	TS2596CM550RN	1
LD39150DT33-R	IC REG LINEAR 3.3V	U5	DPAK	LD39150DT33-R	1
SSCDRRN002NDAA5	SENSOR PRES 0.07PS	U6	SSCDRRN001PDAA5	SSCDRRN002NDAA5	1
OPA4343UA	IC OPAMP GP 4 CIRC	U7	14-SOIC	OPA4343UA	1
SSCDRRN001PGAA5	SENSOR PRES 1PSI	U8, U9	SSCDRRN001PGAA5	SSCDRRN001PGAA5	2
MAX14890EATJ+T	IC RECEIVER Q4 32T	U10	32TQFN-EP	MAX14890EATJ+T	1
CDCLVLC1103PW	IC CLK BUFFER 1:3	U11	SOP 65P640X120-8N	CDCLVLC1103PW	1
SN74LVC1G125DBVT	IC BUF NON-INVERT	U12, U13	SOT 95P280X145-5N	SN74LVC1G125DBVT	2