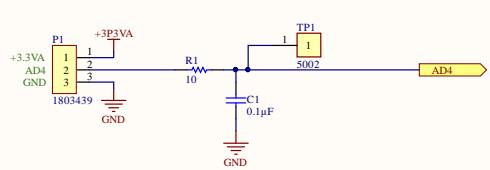
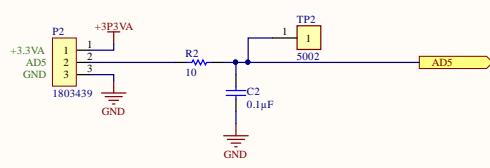


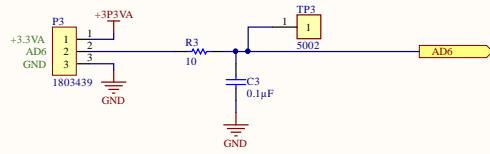
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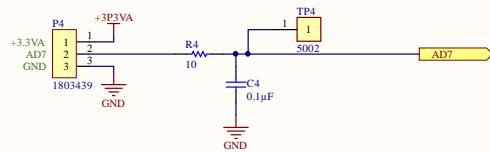
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C

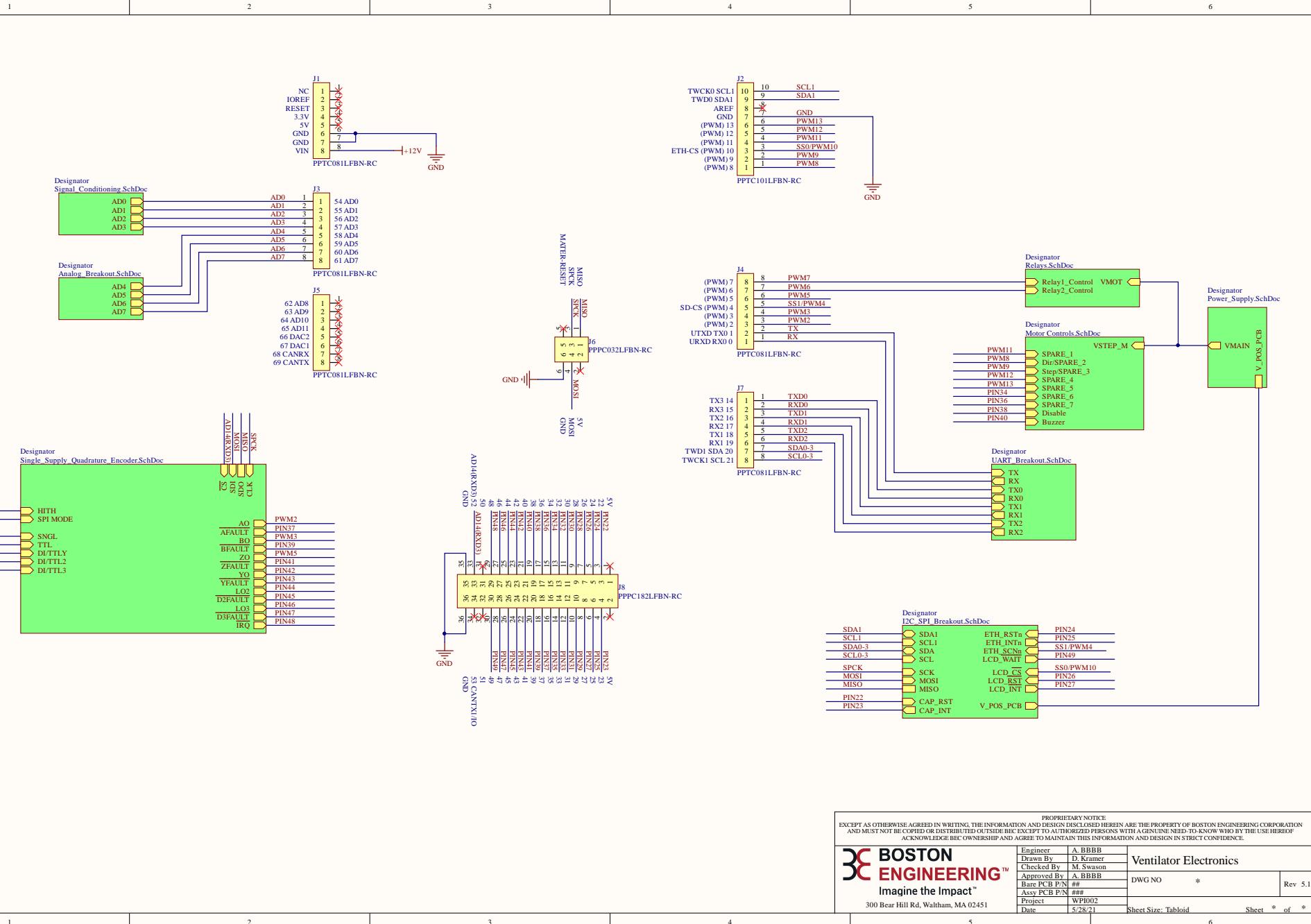


D



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BOSTON ENGINEERING™	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 *



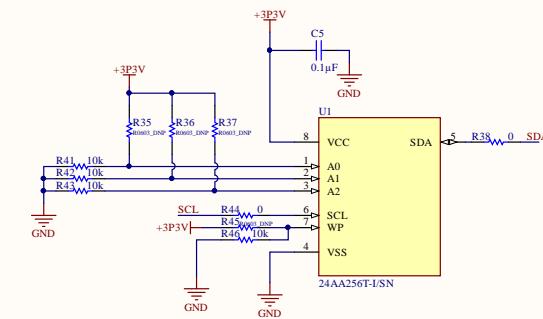
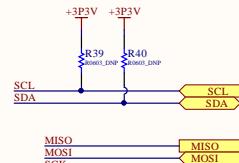
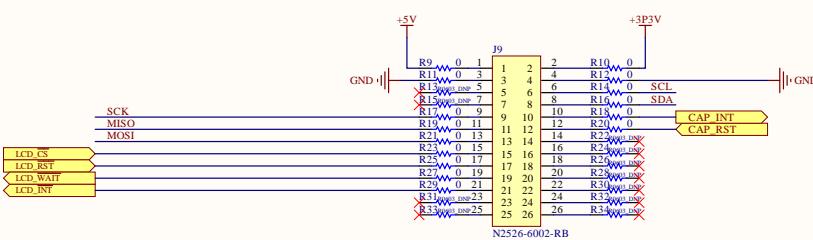
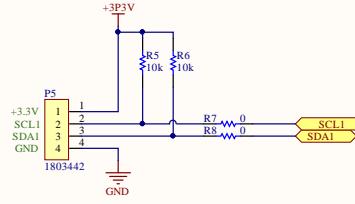
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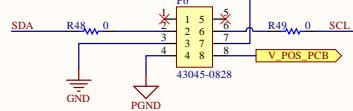
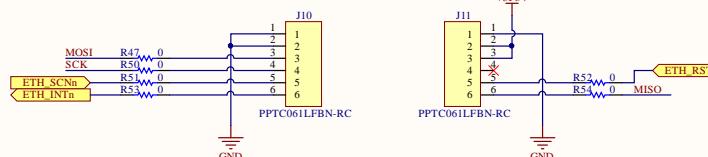
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Engineer	A. BBBB	Ventilator Electronics
Drawn By	D. Krame	
Reviewed By	M. Swanson	
Approved By	B. BBBB	
Bare PCB P/N	##	DWG NO *
Assy PCB P/N	##	Rev 5.1
Project	WP1002	
Date	5/28/21	Sheet Size: Tabloid
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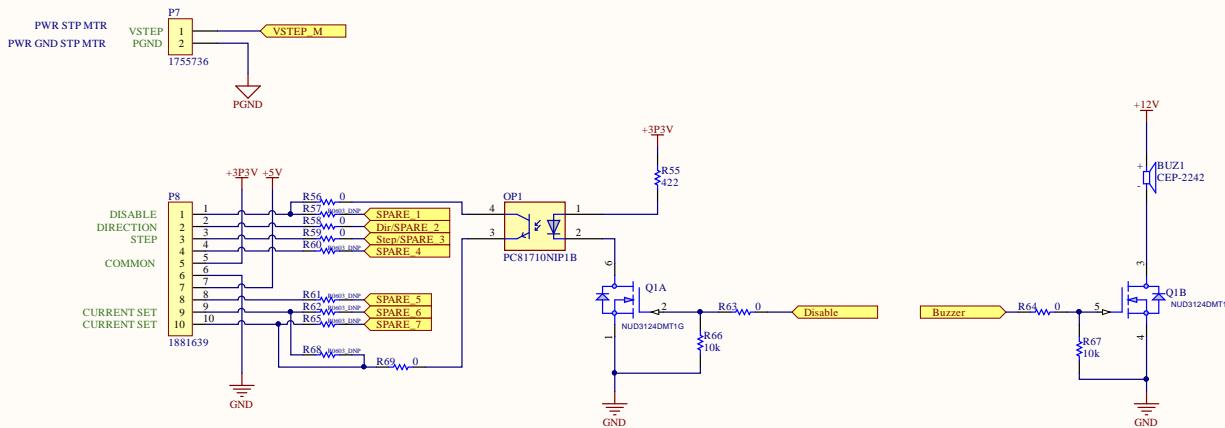
J10A and J10B for WIZ850IO



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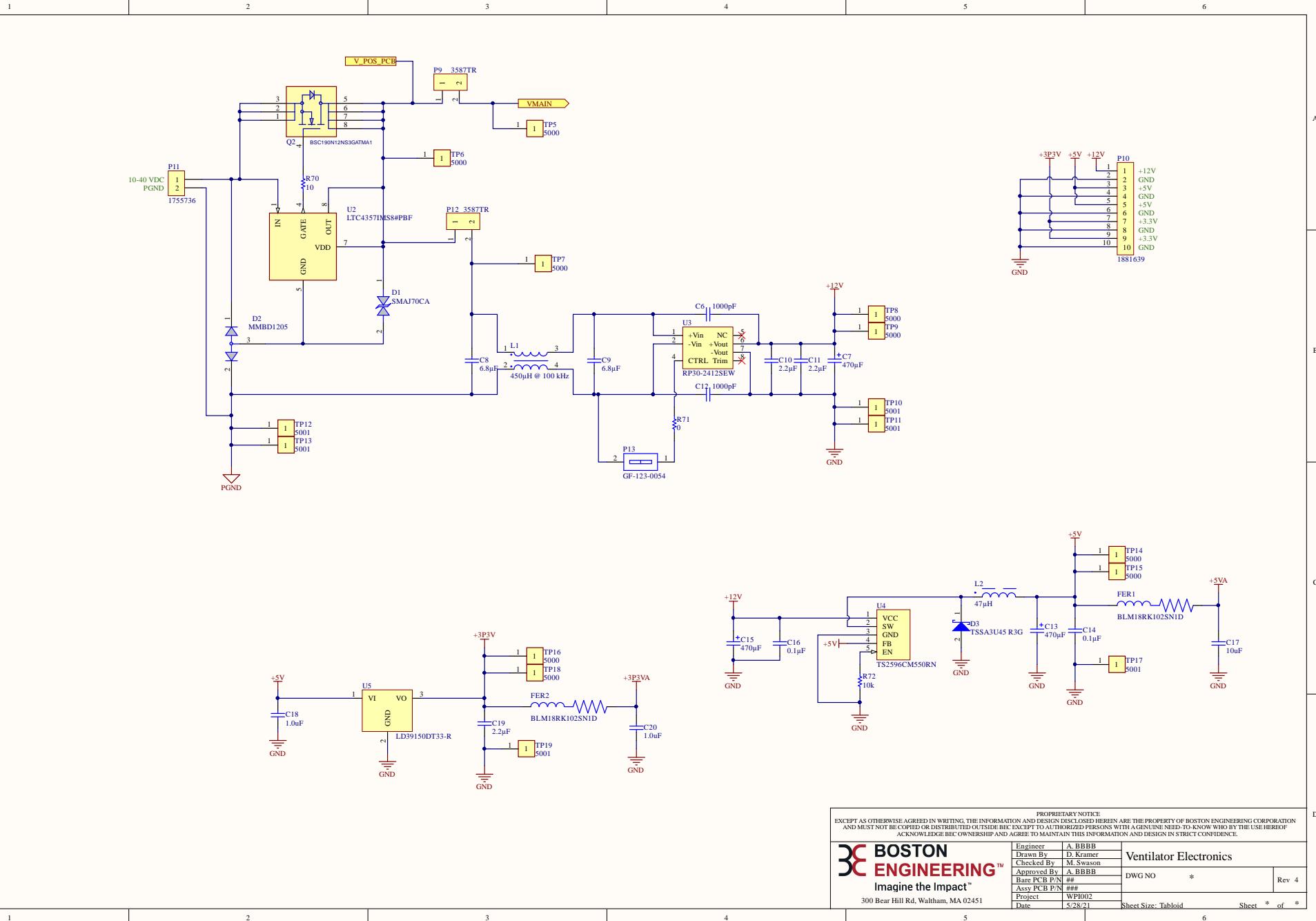
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 BOSTON ENGINEERING™ Imagine the Impact™ 300 Bear Hill Rd, Waltham, MA 02451	Engineer A. BBBB Drawn By D. Kramer Checked By M. Swanson Approved By A. BBBB Barc PCB P/N ## Assy PCB P/N ### Project WP1002 Date 5/28/21	Ventilator Electronics DWG NO *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



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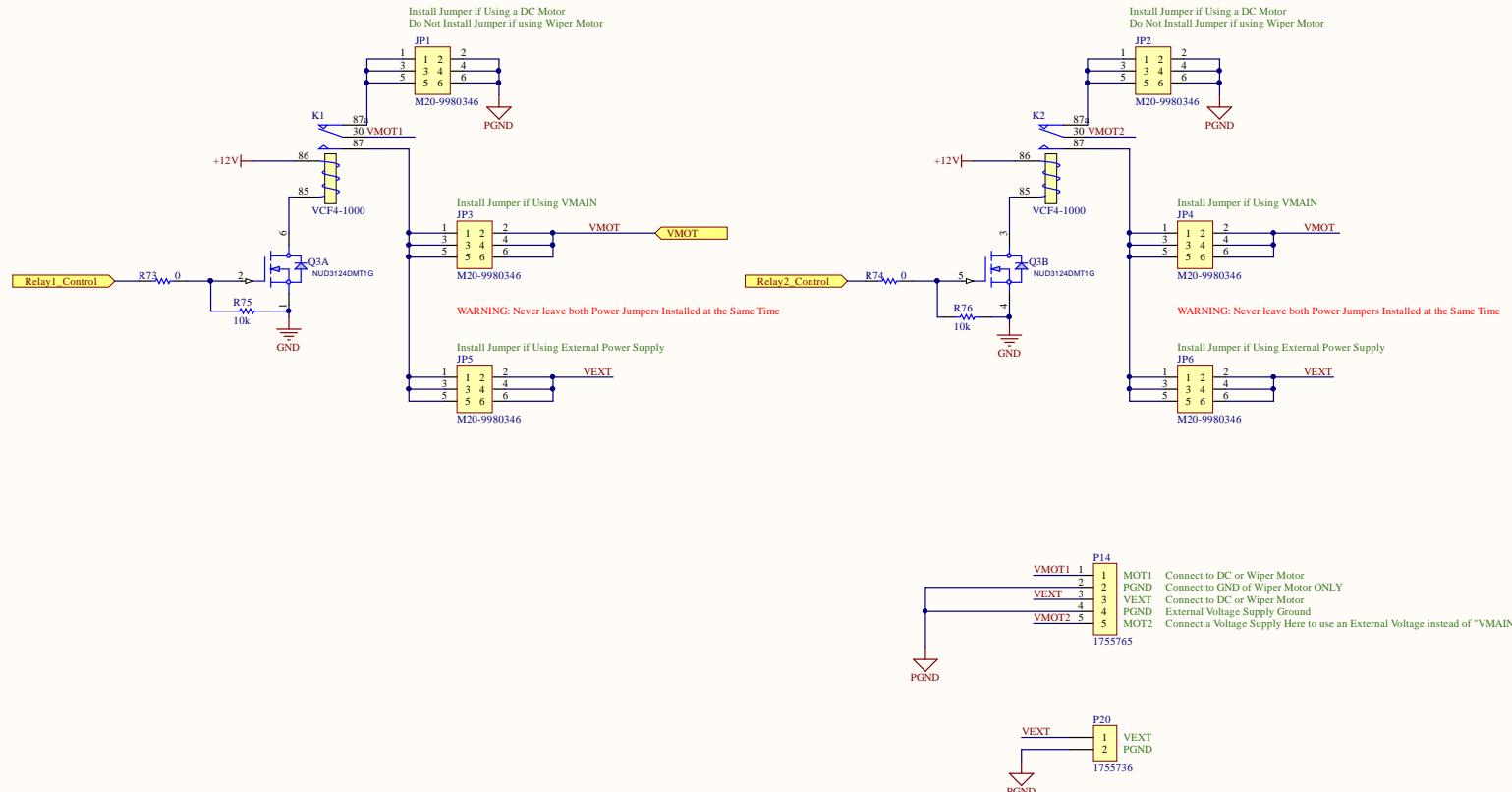
BOSTON ENGINEERING™ Imagine the Impact™ 300 Bear Hill Rd, Waltham, MA 02451	Engineer A. BBBB Drawn By D. Kramer Approved By M. Swanson Bare PCB P/N #### Assy PCB P/N #### Project WP1002 Date 5/28/21	Ventilator Electronics DWG NO * Rev 4 Sheet Size: Tabloid Sheet * of *
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Engineer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

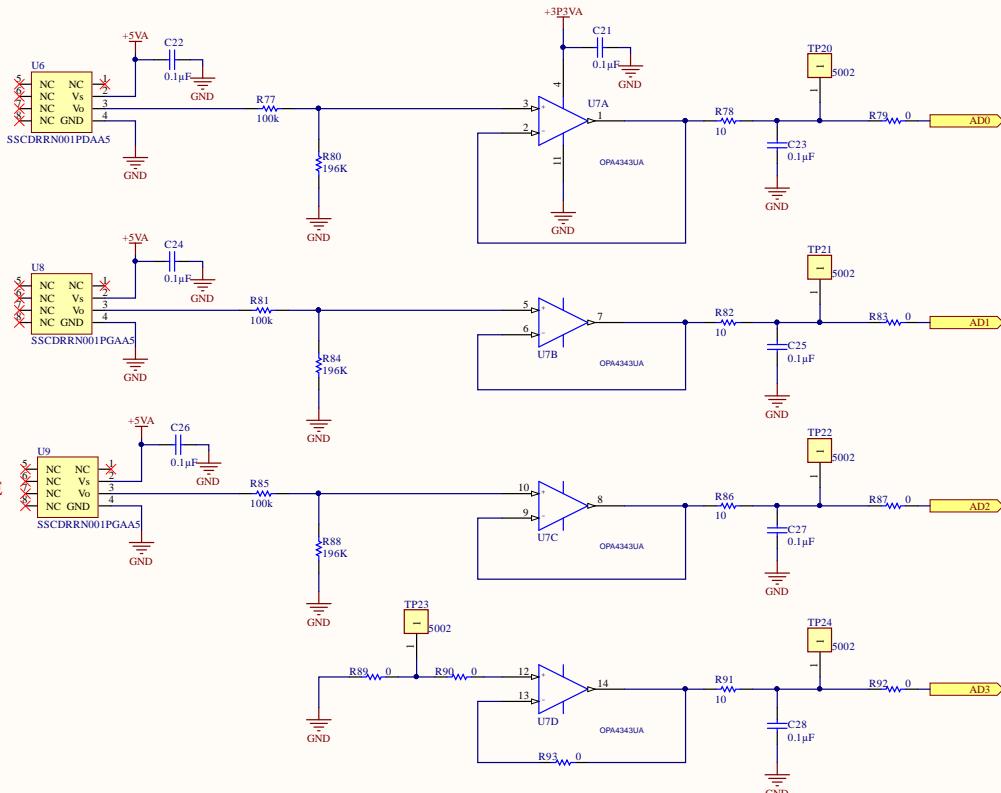


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Engineer	A. BBBB	Ventilator Electronics
Drawn By	D. Kramer	
Reviewed By	M. Swanson	
Approved By	BBBB	
Bare PCB P/N	##	DWG NO *
Assy PCB P/N	###	Rev 4
Project	WP1002	
Date	5/28/21	Sheet Size: Tabloid
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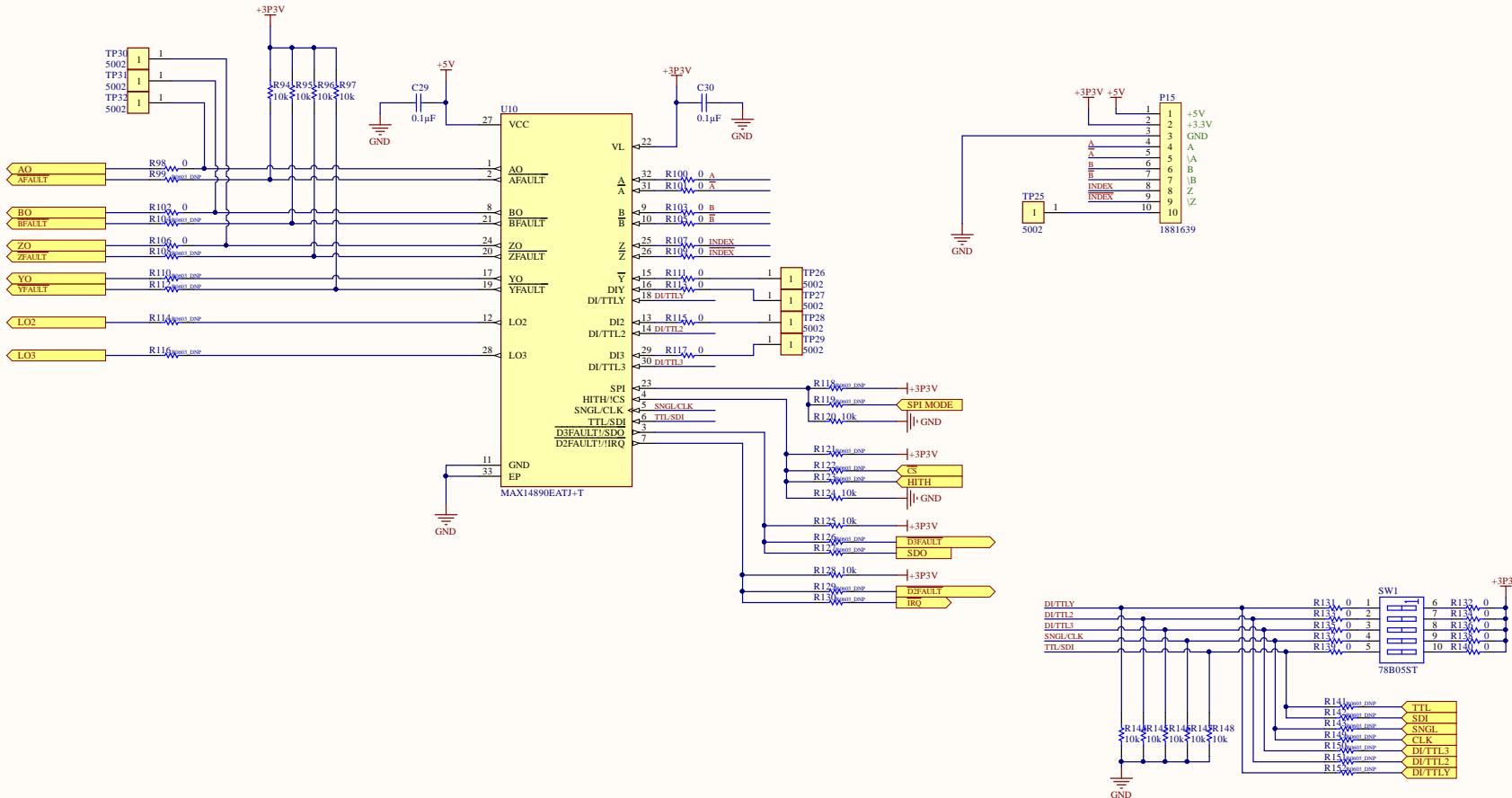
DO NOT POPULATE



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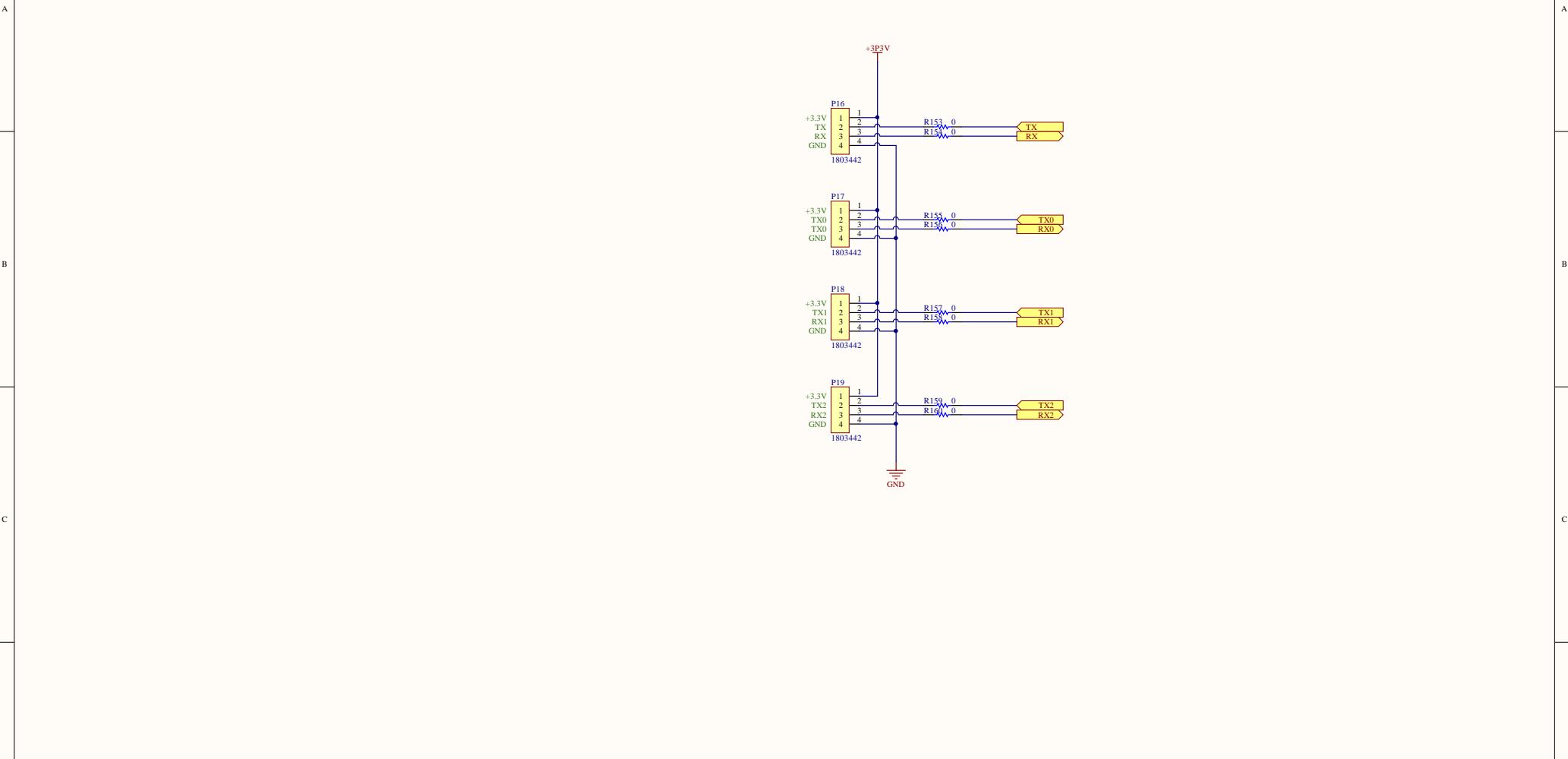
Engineer	A. BBBB	Ventilator Electronics
Drawn By	D. Kramec	
Reviewed By	M. Swanson	
Approved By	M. Swanson	
Bare PCB P/N	BBBB	
Assy PCB P/N	###	
Project	WP1002	DWG NO * Rev 4
Date	5/28/21	Sheet Size: Tabloid Sheet * of *



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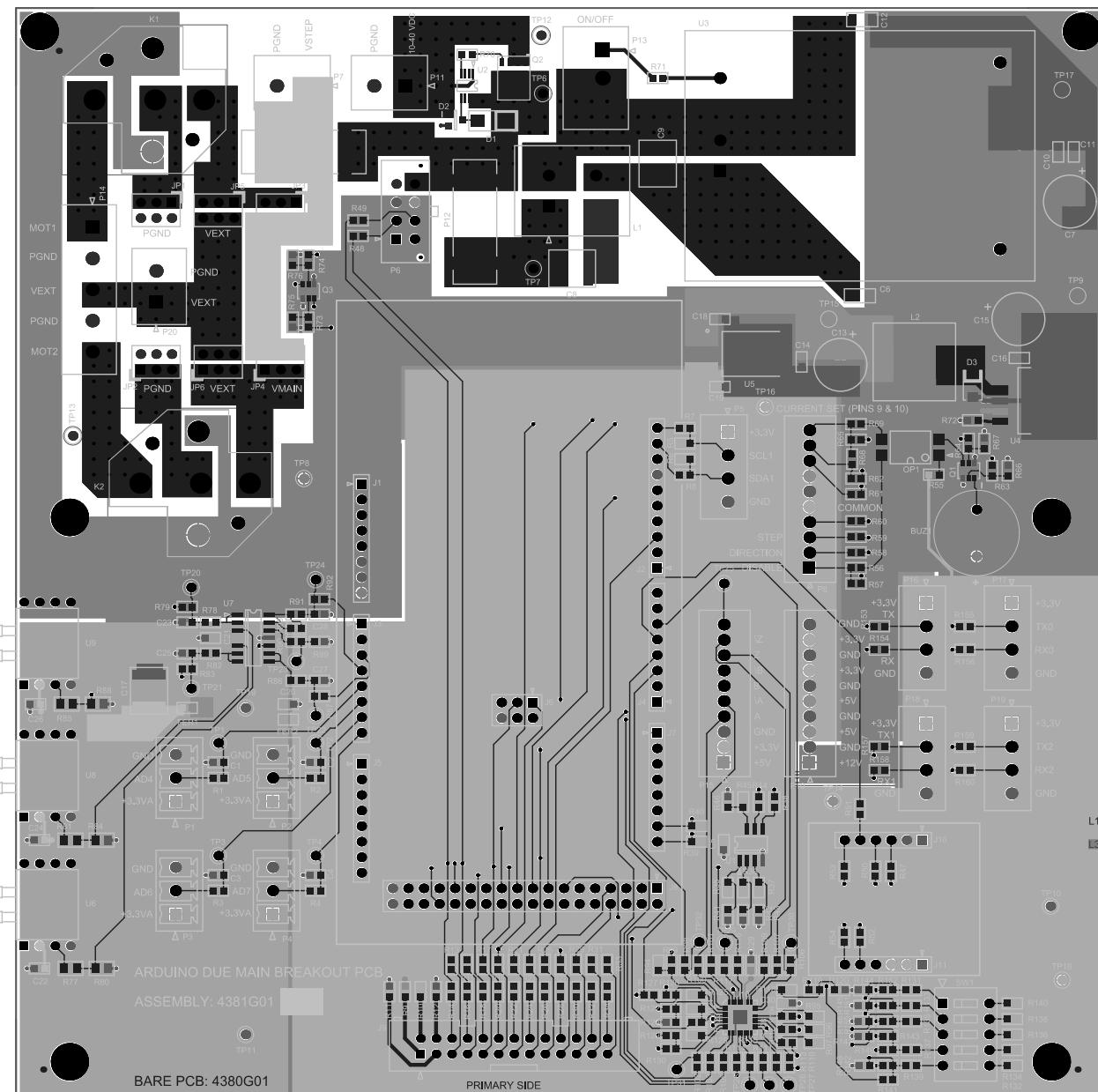
Engineer	A. BBBB	Ventilator Electronics
Drawn By	D. Kramer	
Reviewed By	M. Swanson	
Approved By	B. BBBB	
Bare PCB P/N	## BBBB	
Assy PCB P/N	## ##	
Project	WP1002	DWG NO *
Date	5/28/21	Rev 4
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BOSTON ENGINEERING™	Engineer A. BBBB	Ventilator Electronics
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 *

	TITLE: ARDUINO DUE MAIN BREAKOUT PCB
DATE: 7/19/21	PART NO.: 4380G01 REV: 1
FILE NAME:	LAYER: Bottom Solder Layer



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,	C 0603	CC 0603KRX7R0BB10	17	
1000pF	CAP CER 1000PF 2	C6, C12	C 1206	CL31B102KJHNNNE	2	
470µF	CAP ALUM 470UF 2	C7, C13, C15	860020474014	860020474014	3	
6.8µF	CAP CER 6.8UF 100	C8, C9	C 2220	KTS101B685K55F0T0	2	
2.2µF	CAP CER 2.2UF 25	C10, C11, C19	C 0603	CC 0603KRX5R8BB225	3	
10µF	CAP CER 10UF 100	C17	C 2220	C5750X7S2A106K230	1	
1.0µF	CAP CER 1UF 50V	C18, C20	C 0603	UMK107BJ105KA-T	2	
SMAJ70CA	TVS DIODE 70VMM	D1	DSMA		1	
MMBD1205	DIODE ARRAY GP	D2	SOT-23-3		1	
TSSA 3U45 R3G	DIO DE SCHOTTKY	D3	DO -214AC	TSSA 3U45 R3G	1	
BLM18RK 102SN1D	FERRITE BEAD 1 K	FER1, FER2	R0603	BLM18RK 102SN1D	2	
PPTC 081LFBN-RC	CONN HDR 8POS 0	J1, J3, J4, J5, J7	PPTC 081LFBN-RC	PPTC 081LFBN-RC	5	
PPTC 101LFBN-RC	CONN HDR 10POS 0	J2	PPTC 101LFBN-RC	PPTC 101LFBN-RC	1	
PPPC 032LFBN-RC	CONN HDR 6POS 0	J6	PPPC 032LFBN-RC	PPPC 032LFBN-RC	1	
PPPC 182LFBN-RC	CONN HDR 36POS 0	J8	PPPC 182LFBN-RC	PPPC 182LFBN-RC	1	
N2526-6002-RB	CONN HEADER VER	J9	3MN2526-6002-RB	N2526-6002-RB	1	
PPTC 061LFBN-RC	CONN HDR 6POS 0	J10, J11	PPTC 061LFBN-RC	PPTC 061LFBN-RC	2	
M20-9980346	CONN HEADER VER	JP1, JP2, JP3, JP4, JP5	M20-9980346	M20-9980346	6	
VCF4-1000	RELAY SOCKET 5 P	K1, K2	TE_VCF4-1000	VCF4-1000	2	
450µH @ 100 kHz	CMC 450UH 6.5A 2U	L1	7448227005	7448227005	1	
47µH	FIXED IND 47UH 3A	L2	7447709470	7447709470	1	
PC 81710NIP1B		OP1	4-SMD	PC 81710NIP1B	1	
1803439	TERM BLOCK HDR	P1, P2, P3, P4	1803439	1803439	4	
1803442	TERM BLOCK HDR	P5, P16, P17, P18, P	1803442	1803442	5	
43045-0828	CONN HEADER VER	P6	43045-0828	43045-0828	1	
1755736	TERM BLOCK HDR	P7, P11, P20	1755736	1755736	3	
1881639	TERM BLOCK HDR	P8, P10, P15	1881639	1881639	3	
3587TR	FUSE HOLDER BLAD	P9, P12	3587TR	3587TR	2	
GF-123-0054	SWITCH SLIDE SPS	P13	GF-123-0054	GF-123-0054	1	
1755765	TERM BLOCK HDR	P14	1755765	1755765	1	
NUD3124DMT1G	IC PWR DRIVER N-	Q1, Q3	SC-74-6	NUD3124DMT1G	2	
BSC 190N12NS3GATM	MOSFET N-C-H 120V	Q2	POWERPAK_SO-8	BSC 190N12NS3GATM	1	
10	RES SMD 10 OHM	R1, R2, R3, R4, R70,	R0603	RC 0603FR-0710RL	9	
10k	RES SMD 10K OHM	R5, R6, R41, R42, R4	R0603	RC 0603FR-0710KL	24	
0	RES SMD 0 OHM	JU	R7, R8, R9, R10, R11	R0603	RC 0603JR-070RL	74
R0603_DNP		R13, R15, R22, R24,	R0603	R0603_DNP	46	
422	RES SMD 422 OHM	R55	R0603	RC 0603FR-07422RL	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	SW1	78B05ST	78B05ST	1	
5002	PC TEST POINT MIN	TP1, TP2, TP3, TP4	KEYSTONE_5002	5002	17	
5000	PC TEST POINT MIN	TP5, TP6, TP7, TP8	KEYSTONE_5000	5000	9	
5001	PC TEST POINT MIN	TP10, TP11, TP12, T	KEYSTONE_5001	5001	6	
24AA256T-I/SN	IC EEPROM 256kBIT	U1	8-SOIC	24AA256T-I/SN	1	
LTC 4357IMS8	IC O/C TRLR N+1 8I	U2	8-MSOP		1	
RP30-2412SEW	Single, Isolated Mod	U3	RP30-EW	RP30-2412SEW	1	
TS2596CM550RN	IC REG BUCK 5V 3A	U4	TS2596CM550RN	TS2596CM550RN	1	
LD39150DT33-R	IC REG LINEAR 3.3V	U5	DPAK	LD39150DT33-R	1	
SSCDRRN001PDAA5	SENSOR PRES 1PSI	U6	SSCDRRN001PDAA5	SSCDRRN001PDAA5	1	
OPA4343UA	IC OPAMP GP 4 CIR	U7	14-SOIC	OPA4343UA	1	
SSCDRRN001PGAA5	SENSOR PRES 1PSI	U8, U9	SSCDRRN001PGAA5	SSCDRRN001PGAA5	2	
MAX14890EATJ+T	IC RECEIVER 0/4 32I	U10	32 TQFN-EP	MAX14890EATJ+T	1	