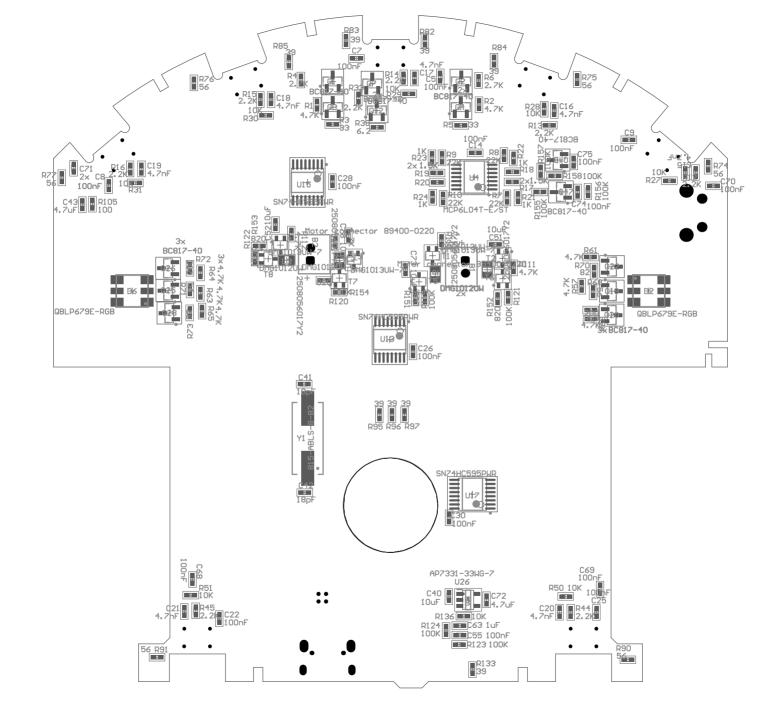
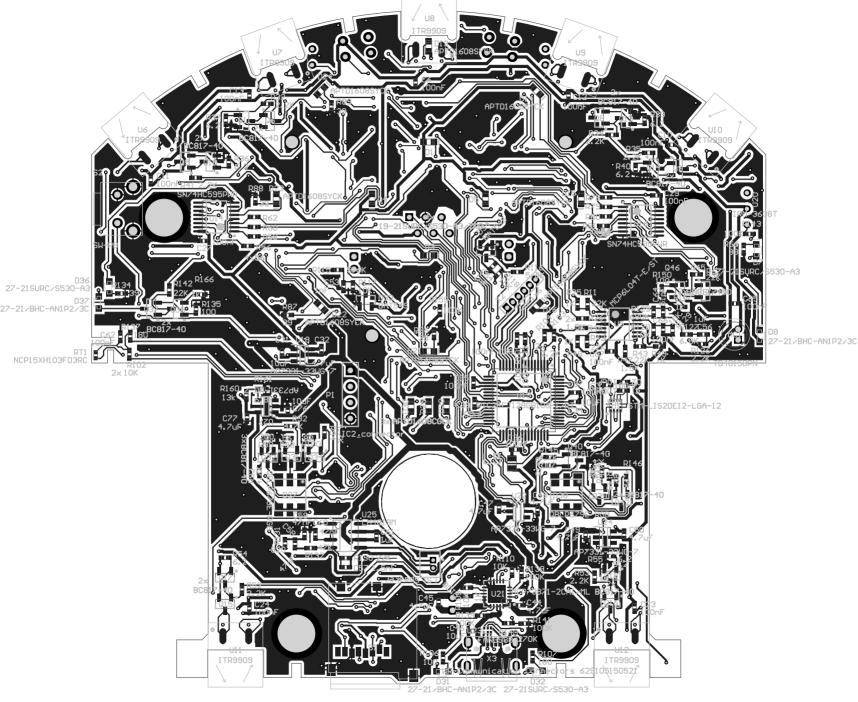
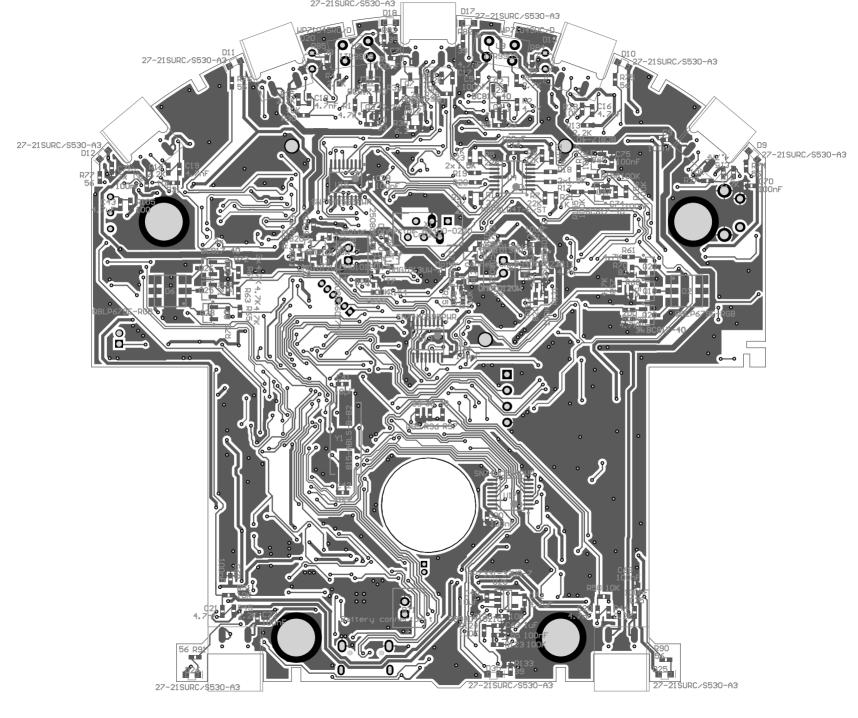


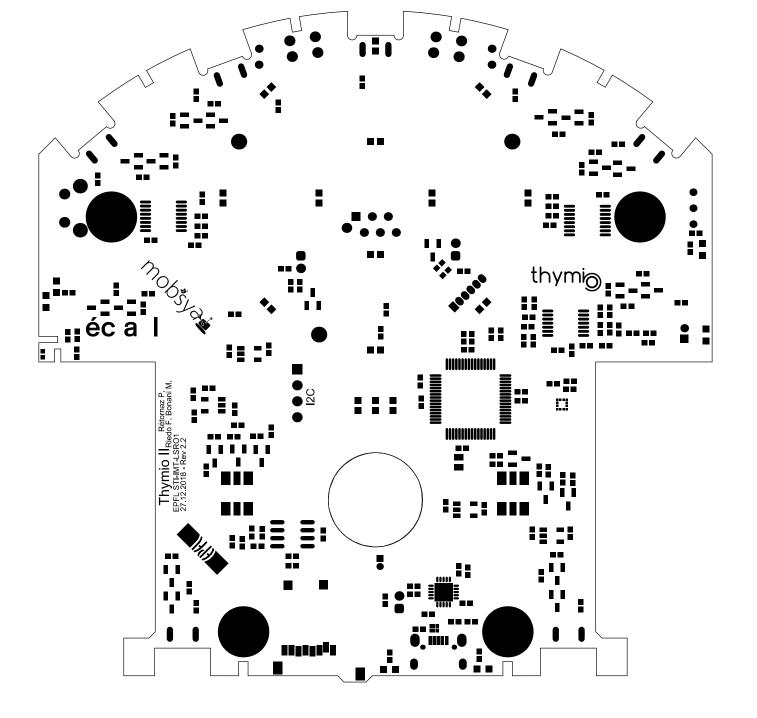
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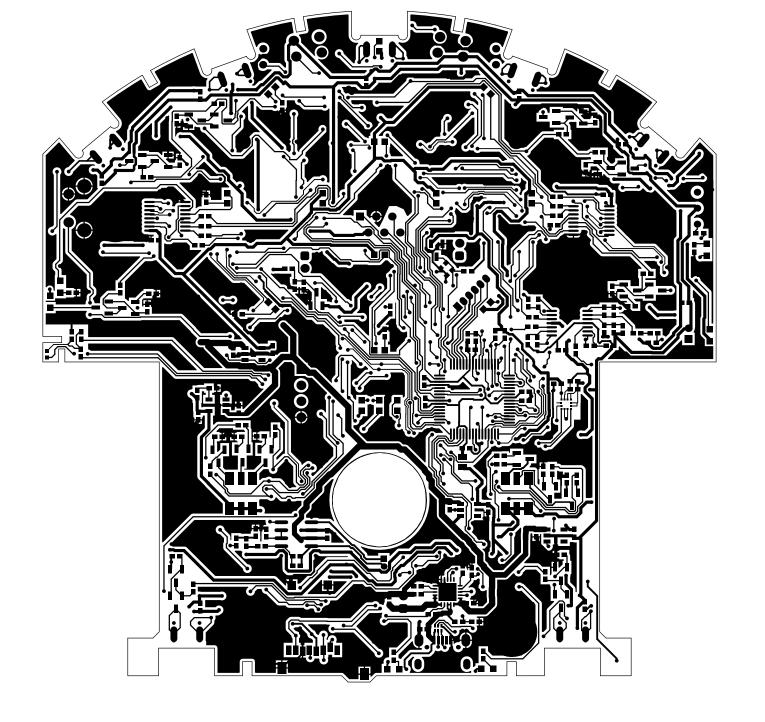


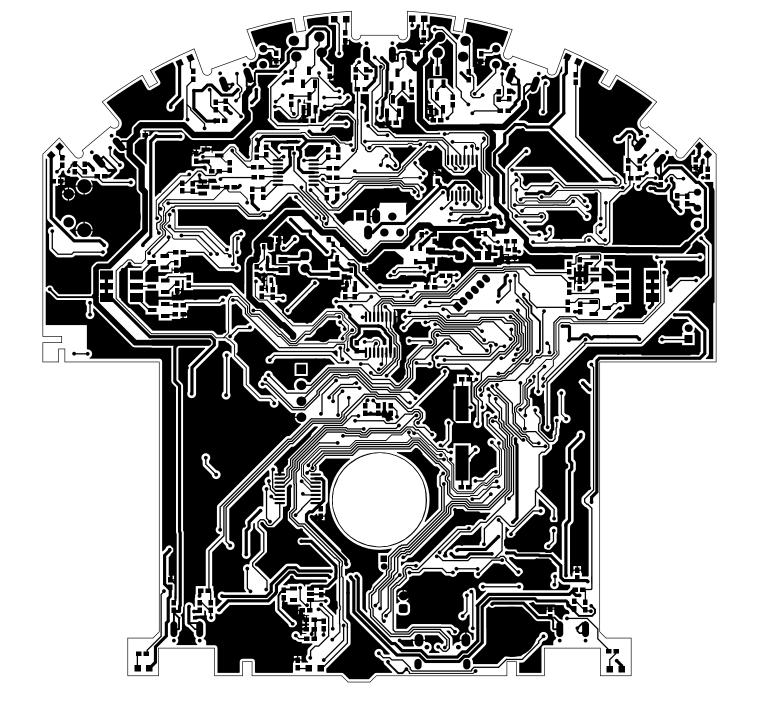


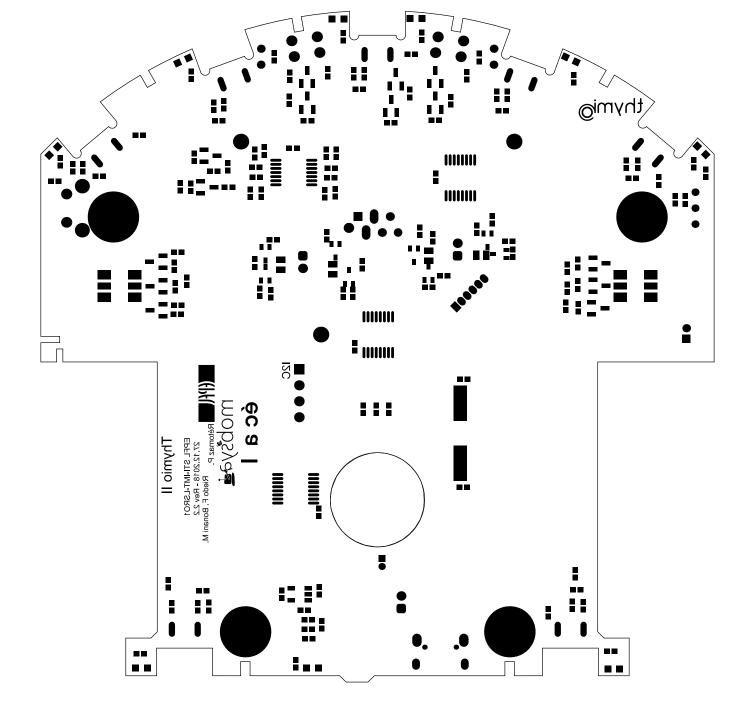
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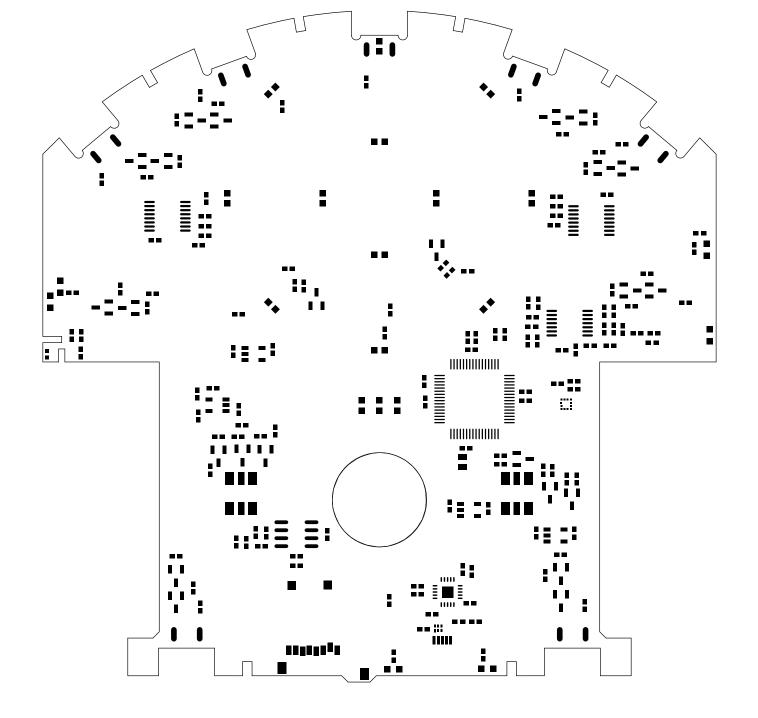


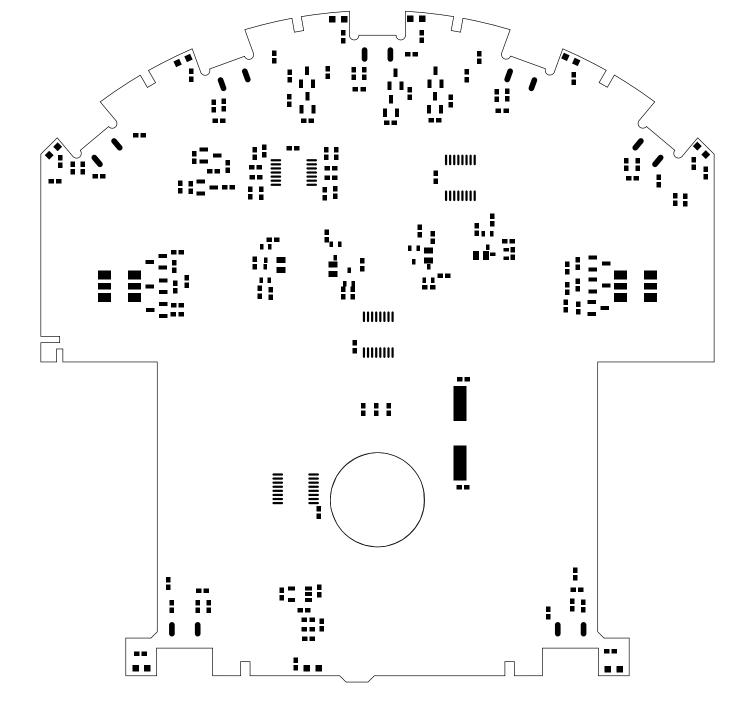


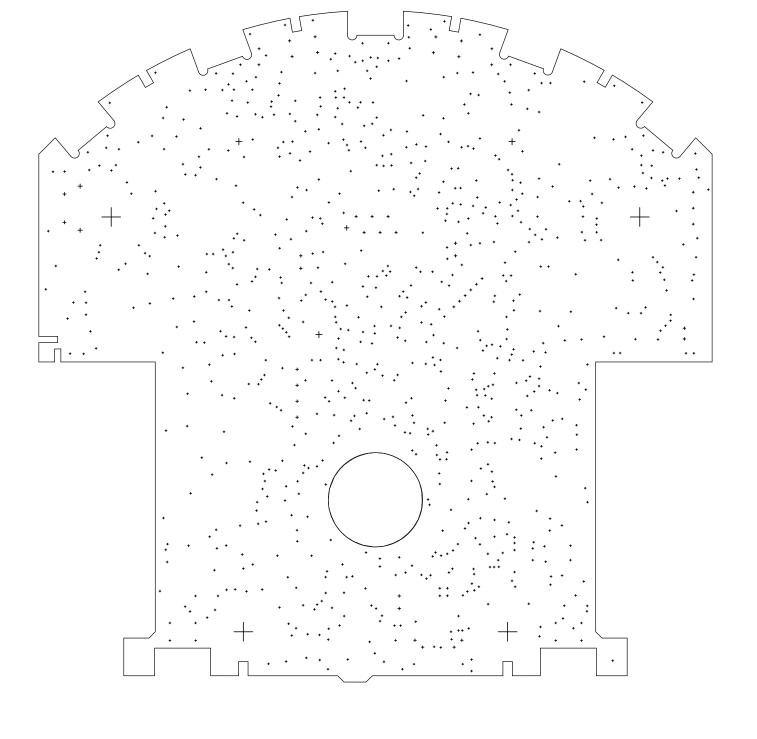


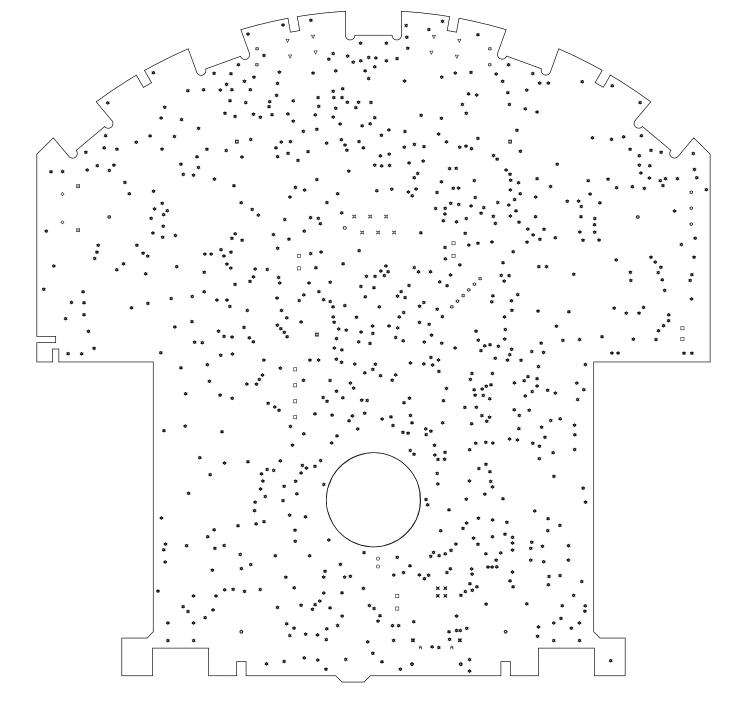


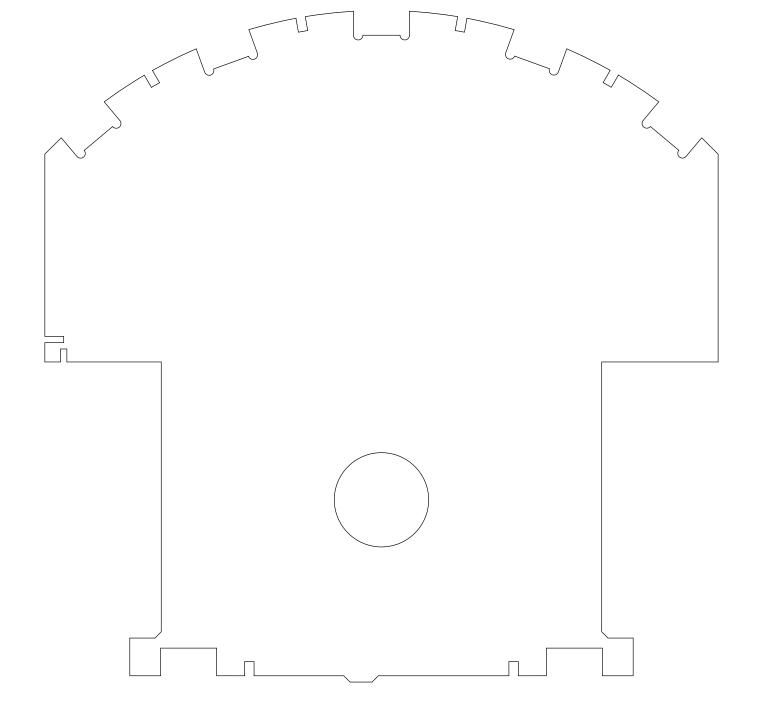


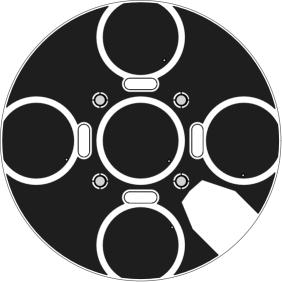


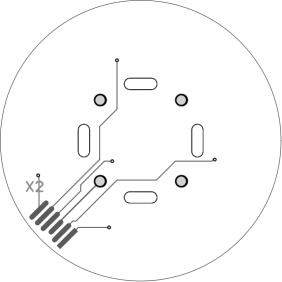


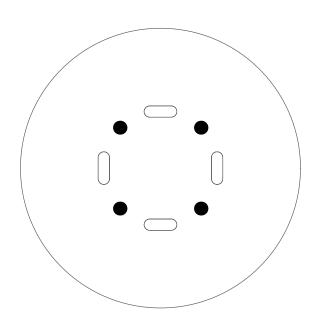


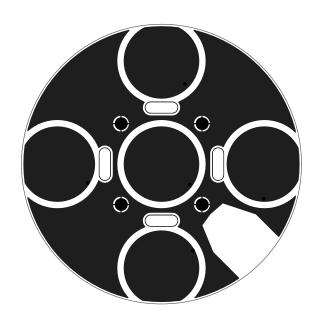


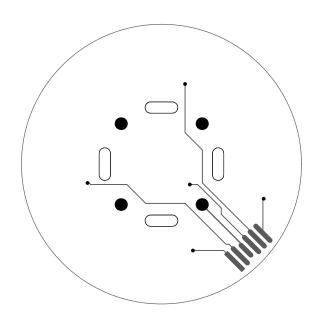


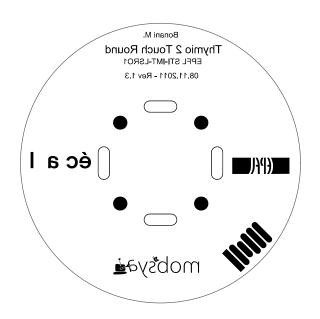


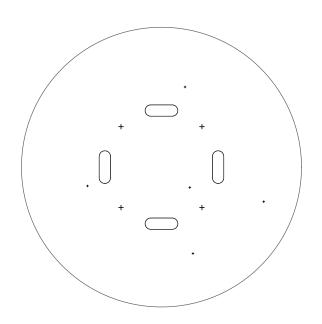


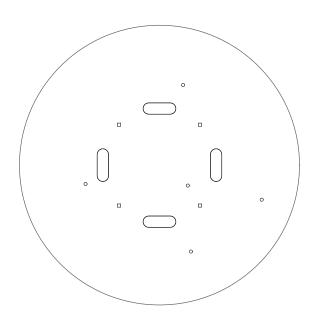


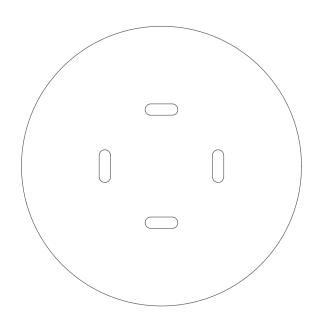


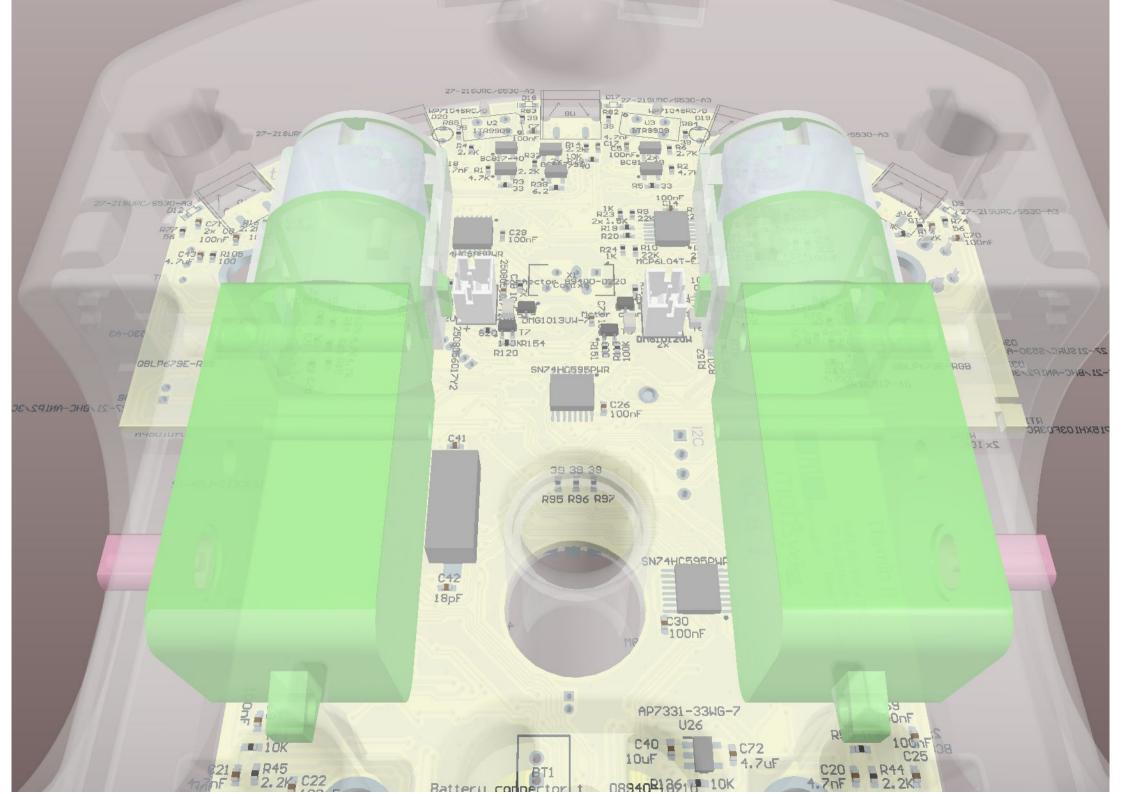


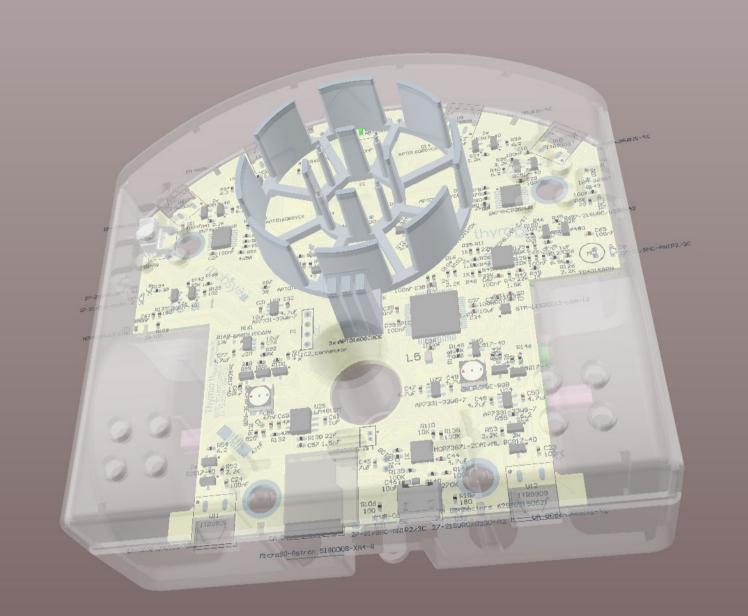












Quantity	Comment	Designator	Description	Footprint
2	Motor connector 89400- 0220	B1, B2	Motor, General Kind	BAT-2
		C1, C3, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C22, C23, C24,		
		C25, C26, C27, C28, C29, C30, C33, C35, C36, C37, C38, C39, C55, C62,		
20	100nF	C65, C66, C67, C68, C69, C70, C71,	Compositor	CADC100EVOEN
		C74, C75 C2, C31, C40, C46, C51, C52, C73,	Capacitor	CAPC1005X05N
7	10uF 4.7nF	C76, C78 C15, C16, C17, C18, C19, C20, C21	Capacitor Capacitor	CAPC1005X05N CAPC1005X05N
	4.7uF	C32, C43, C44, C45, C47, C48, C49, C50, C72, C77	Capacitor	CAPC1005X05N
	10uF X5R	C34	Capacitor	CAPC1005X05N
	18pF	C41, C42		CAPC1005X05N
3		C53, C54 C56, C61, C63	Capacitor Capacitor	CAPC1005X05N CAPC1005X05N
1		C57	Capacitor	CAPC1005X05N
3		C58, C59, C60	Capacitor	CAPC1005X05N
1	51pF	C64	Capacitor SMD Red 0603 2V@20ma 56	CAPC1005X05N
	19-21SURC/S530-A3/TR8 QBLP679E-RGB	D1, D3, D4, D5	mcd	DIOC1608X08N QBLP679E-RGB
4		D2, D6, D27, D38 D13, D14, D15, D16, D21, D22,	LED standard - CMS Helios SMD	
	APTD1608SYCK	D23, D24	Yellow 590nm 480mcd LED standard - CMS Helios SMD	DIOC1608X08N
3	APTD1608CGCK	D28, D29, D30	Green 570nm 230mcd	DIOC1608X08N SOT23_N
		D33, D34	Schottky Barrier Double Diode SMD EMI Suppression Ferrite	
5	2508056017Y2	L1, L2, L3, L4, L5 Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8,	Bead WE-CBF, Z = 600 Ohm	INDC2012X11L
		Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q22,		
		Q25, Q26, Q28, Q31, Q32, Q34, Q37, Q38, Q39, Q40, Q42, Q45,	NPN General-purpose	
36	BC817-40	Q46, Q47, Q48 R1, R2, R57, R59, R61, R63, R64,	Transistor	SOT23_N
10	4.7K	R1, R2, R57, R59, R61, R63, R64, R65, R92, R93, R94, R111, R112, R113, R114, R144, R145, R146	Resistor	RESC1005X04N
2		R3, R5	120, Resistor	RESC1005X04N RESC1005X04N
2	2.7K	R4, R6	Resistor	RESC1005X04N
10	22K	R7, R8, R9, R10, R11, R42, R43, R67, R130, R142	120, Resistor	RESC1005X04N
		R12, R13, R14, R15, R16, R32, R33, R34, R35, R41, R44, R45, R52, R53,		
17	2.2K 1.5K	R103, R104, R126	120, Resistor 120	RESC1005X04N RESC1005X04N
		R17, R18, R19, R20, R26, R46, R47 R21, R22, R23, R24, R25, R48, R49,		
10	1K	R108, R166, R167 R27, R28, R29, R30, R31, R50, R51,	120, Resistor	RESC1005X04N
16	10K	R101, R102, R109, R110, R117, R118, R128, R129, R136	120, Resistor	RESC1005X04N
7	6.2	R36, R37, R38, R39, R40, R54, R55	120	RESC1005X04N
		R56, R58, R60, R62, R68, R71, R74, R75, R76, R77, R78, R79, R80, R81,		D5001005V0.44
18	56	R90, R91, R98, R147 R66, R82, R83, R84, R85, R86, R87,	Resistor, 56	RESC1005X04N
14	39	R88, R89, R95, R96, R97, R133, R134	Resistor	RESC1005X04N
4		R69, R72, R99, R148	200	RESC1005X04N
4		R70, R73, R100, R149 R105, R106, R135, R150	82 Resistance, Resistor	RESC1005X04N RESC1005X04N
2		R107, R137	Resistor	RESC1005X04N
2	5.6K	R115, R116	Resistor	RESC1005X04N
45		R119, R120, R121, R122, R123, R124, R138, R139, R141, R143,		D5001005V0.44
15	100K 680K	R155, R156, R157, R158, R159 R125	Resistor Resistor	RESC1005X04N RESC1005X04N
1		R127	Resistor	RESC1005X04N
5		R131, R151, R152, R153, R154	Resistor	RESC1005X04N
1	47K 270K	R132 R140	Resistor Resistor	RESC1005X04N RESC1005X04N
	NCP15XH103F03RC	RT1	Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L
	MicroSD-Astron 5190008-		MicroSD Card connector	
1		\$1 \$2	5190008-XA4-R Switch	Astron 5190008-XA4-R FSMRA2JH
А	DMG1013UW-7	T1, T2, T3, T4	Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N
	DMG1012UW	T5, T6, T7, T8	Transistor MOSFET 1 x N, Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N
1		U1		STM-LGA-12
			1 MHz, 85 μA Quad Op Amp, 14- Pin TSSOP, Extended	
2	MCP6L04T-E/ST	U4, U5	Temperature Range, Tape and Reel	TSSOP-ST14_N
			8-Bit Serial-Input/Serial or Prallel-Output Shift Register	
5	SN74HC595PWR	U13, U14, U15, U16, U17	with Latched 3-State Outputs	948F-01_N
5	AP7331-33WG-7	U18, U22, U24, U26, U27	300mA, Low Quiescent Current, Fast Transient LDO	SOT95P285X100-5N
			General Purpose 16-Bit Flash Microcontroller with USB On-	
			The-Go, 128KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial	
1	PIC24FJ128GB106-I/PT	U19	Temperature Stand-Alone System Load	TQFP-PT64_N
			Sharing and Li-lon/Li-Polymer Battery Charge Management	
_	MCD72074 20ALG4	1121	Controller, 4.2V, 20-Pin QFN,	OEN MI 20 N
	MCP73871-2CAI/ML	U21	Industrial Temperature USB/Charger and Over Voltage	QFN-ML20_N
1	FAN3988	U23	Detection Device 350mW Audio Power Amplifier	MLP 1.45X1MM
1	LM4819M WR-Communication	U25	with Shutdown Mode	M08A_N
1	Connectors 629105150521	X3	WR-COM_USB_Micro Type B Horizontal SMT	629105150521
			Surface Mount Quartz Crystal	
1	815-ABLS-8-B2	Y1	8Mhz	HC49/4H_SMX