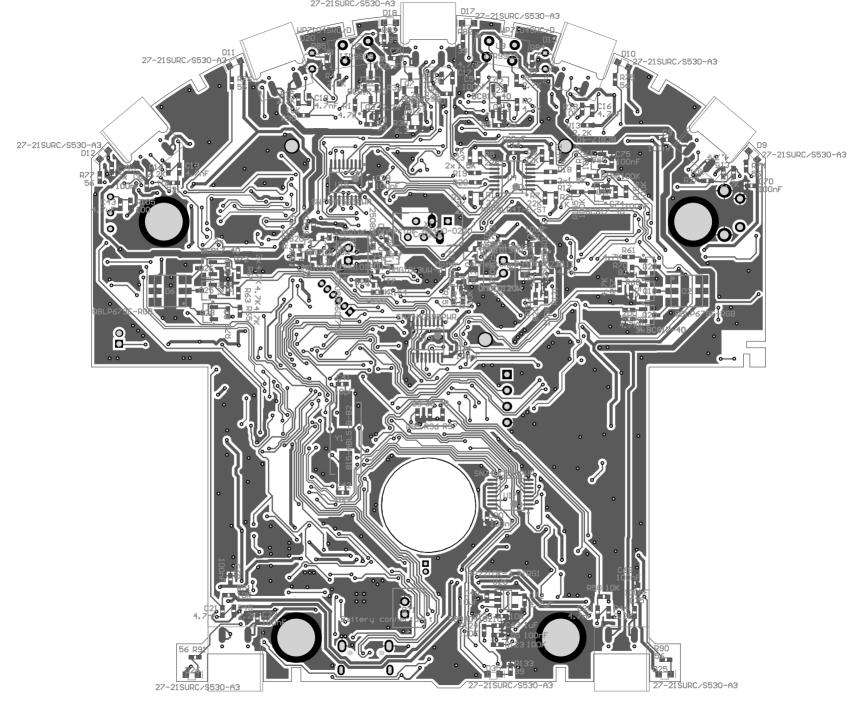
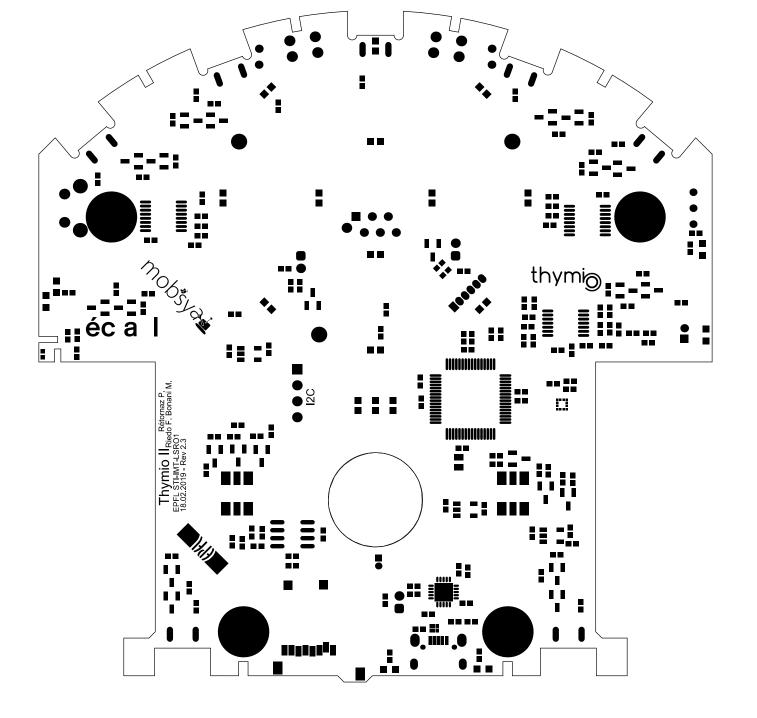
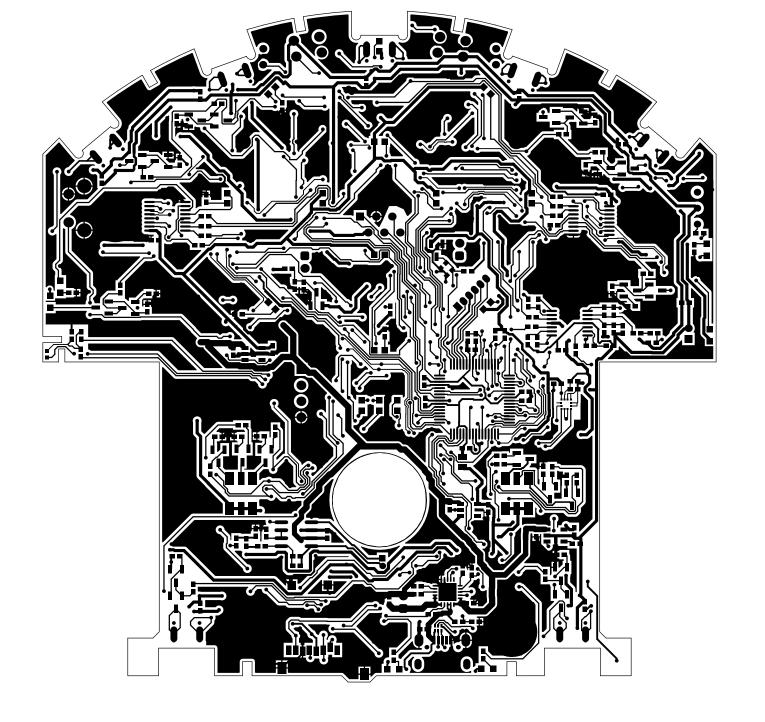
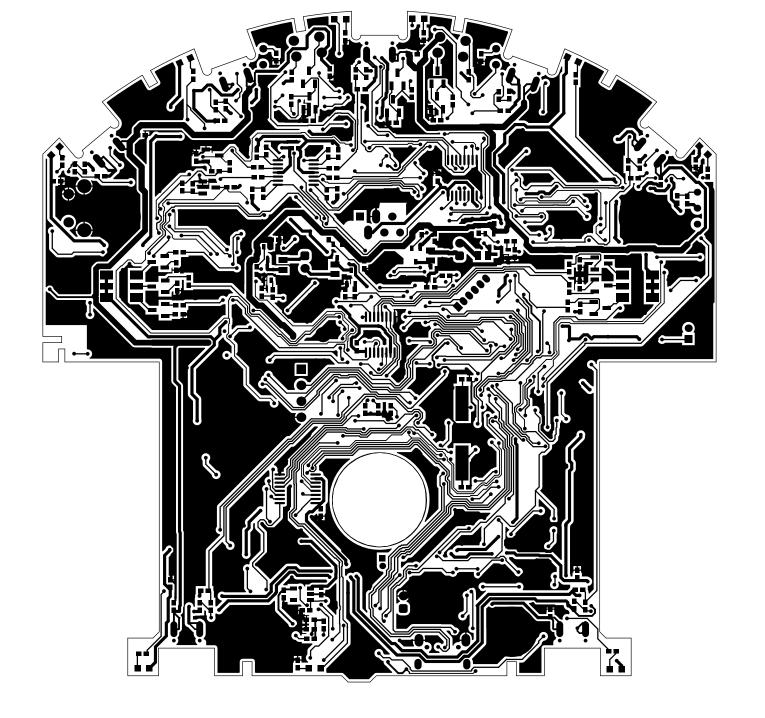


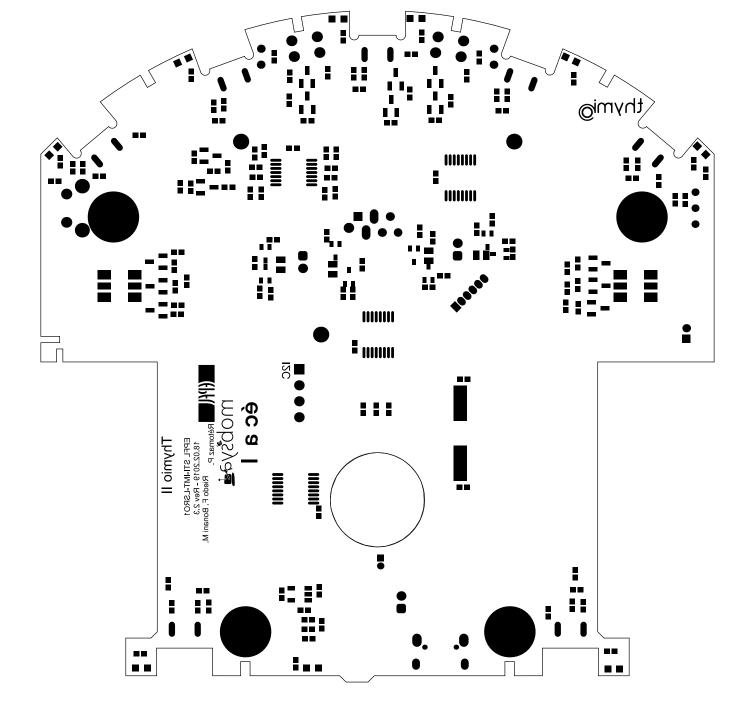
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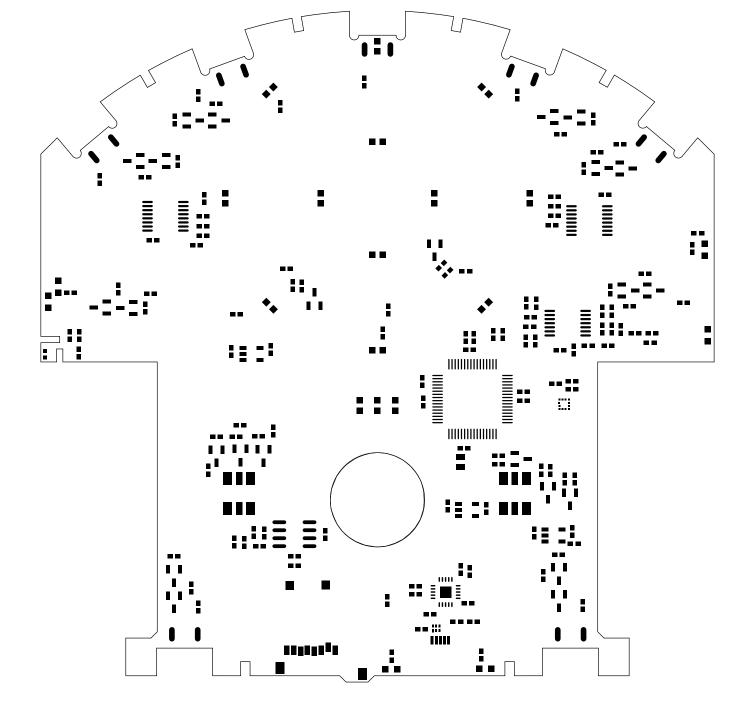


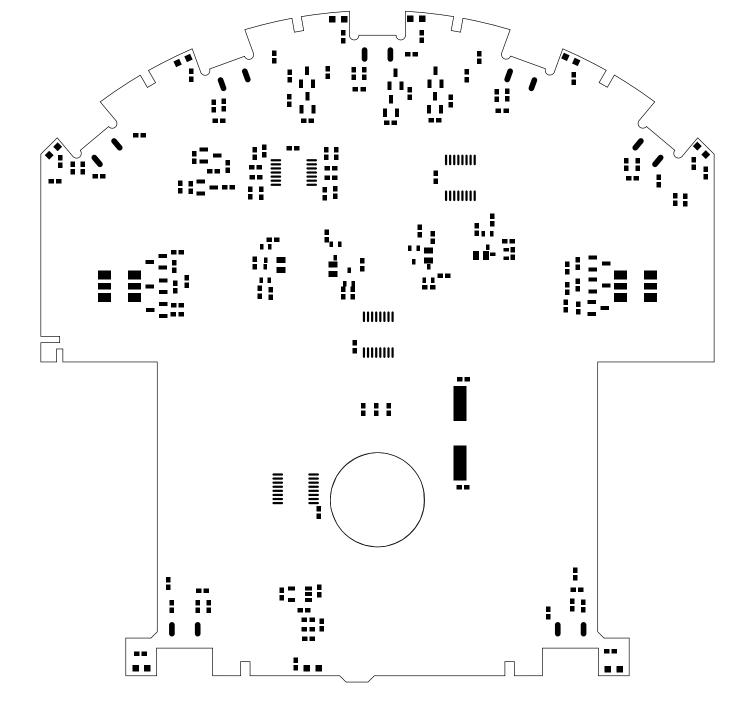


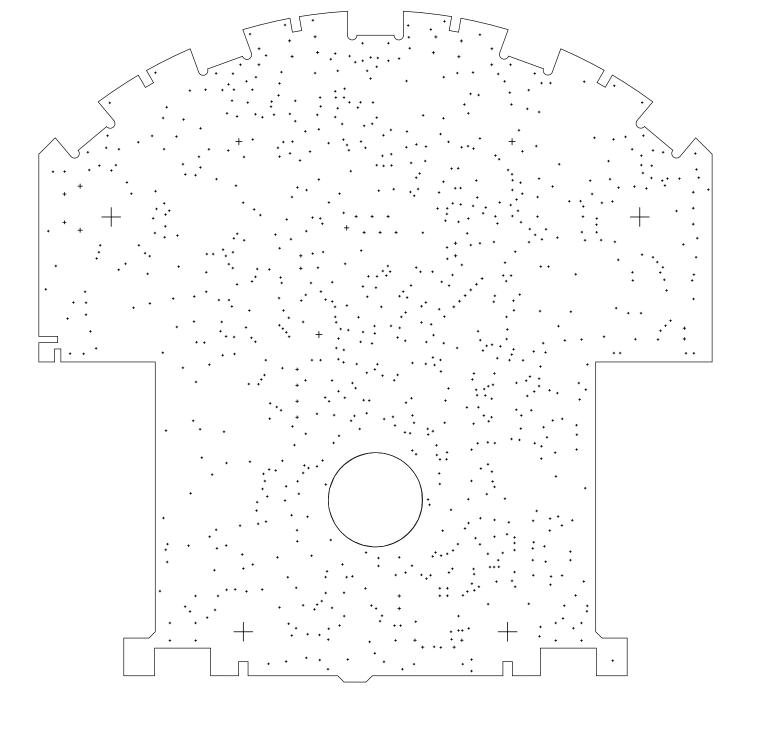


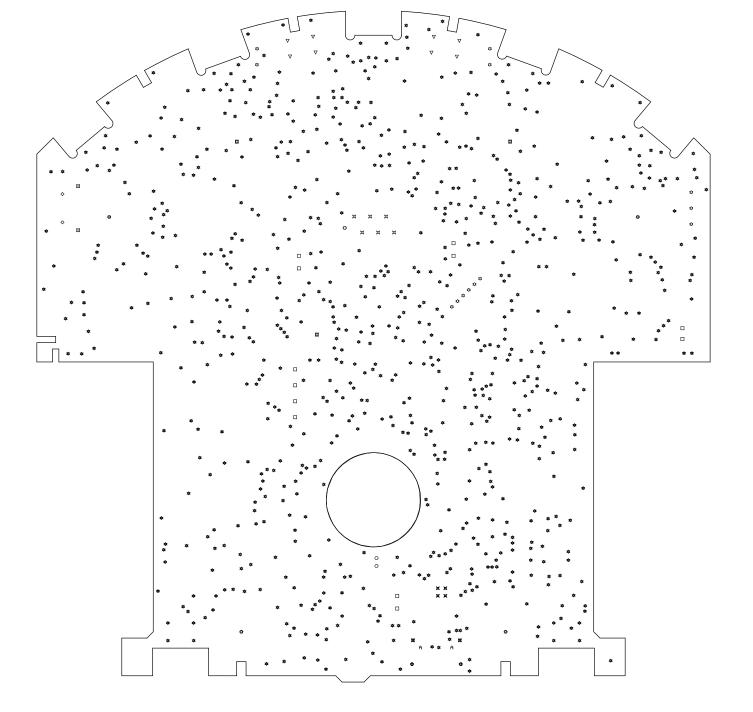


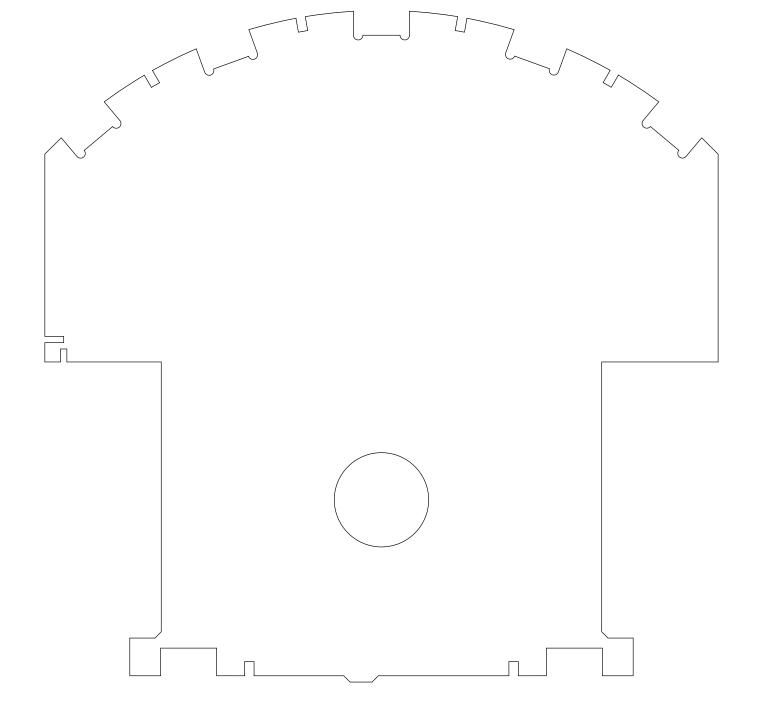


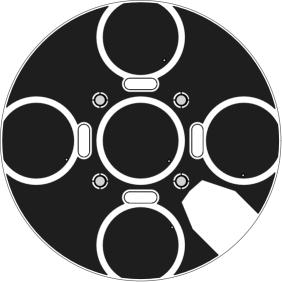


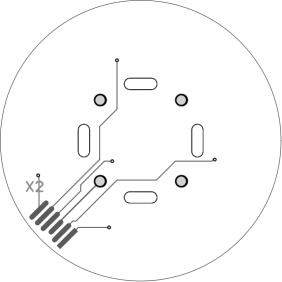


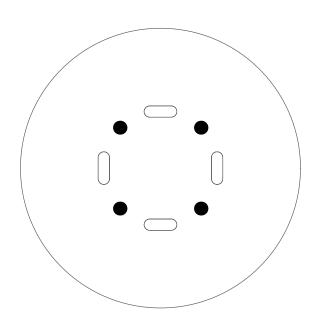


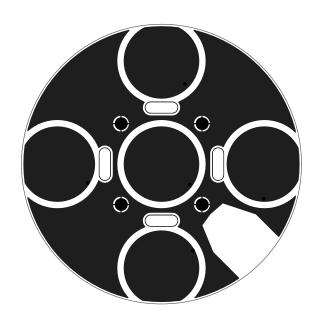


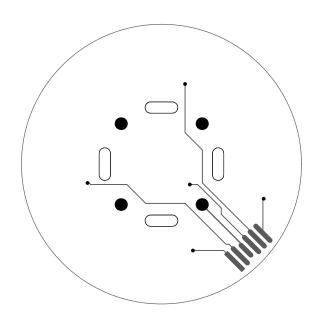


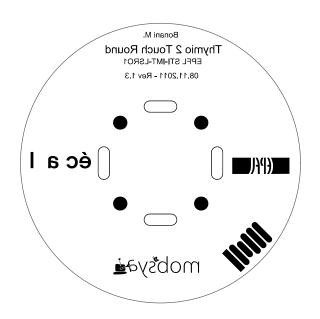


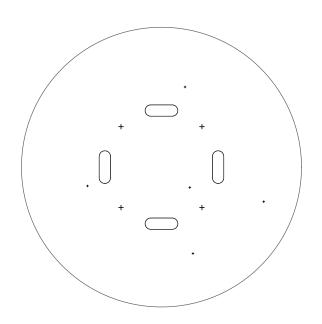


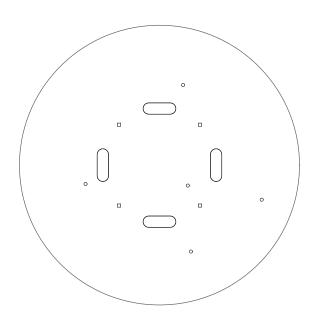


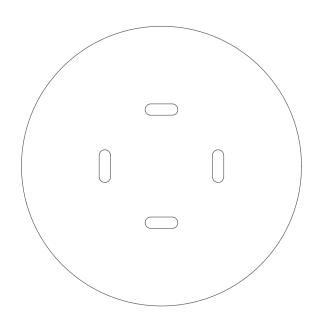


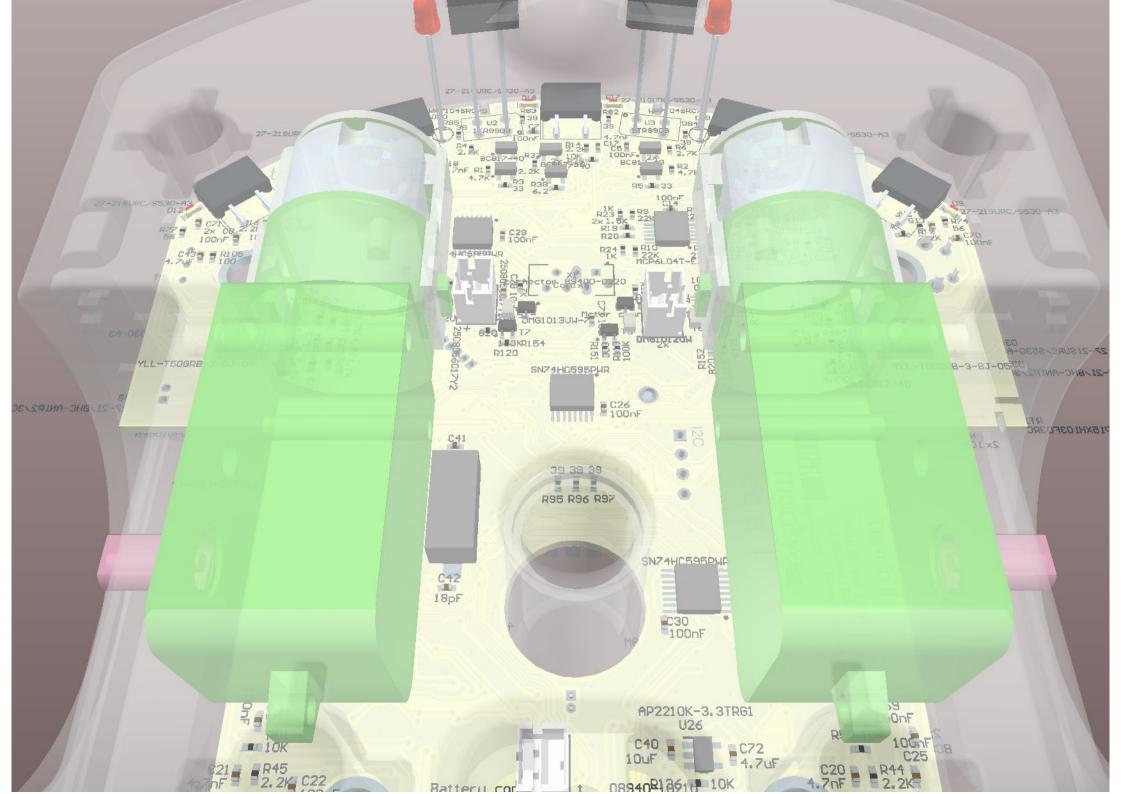


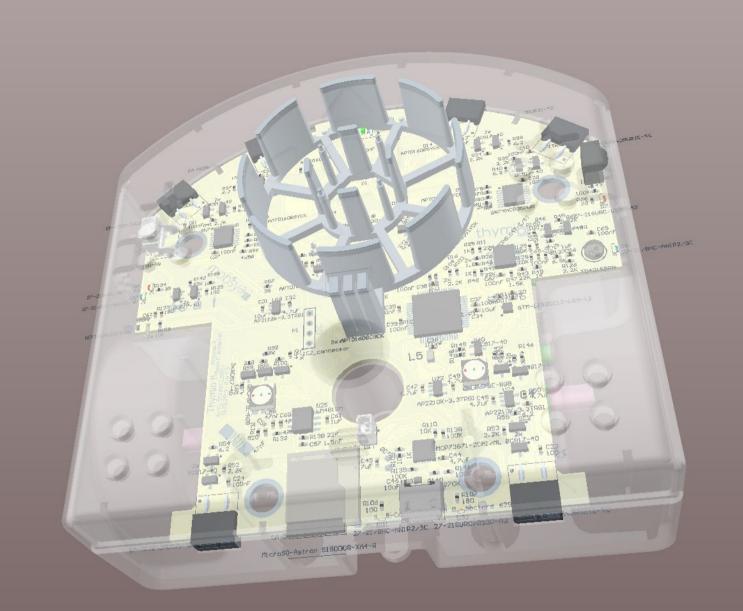












Quantity         Comment         Designator         Description           2         Motor connector 89400-0220         B1, B2         Motor, General Kind           1         18 attery connector t 08940-10210         BTI         Multicell Battery           2         C1, C3, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C22, C23, C24, C25, C26, C27, C28, C29, C30, C33, C35, C33, C35, C33, C39, C55, C62, C65, C66, C67, C68, C69, C70, C71, C74, C75         Capacitor           8         10uF         C2, C31, C40, C46, C51, C52, C73, C78         Capacitor           2         51pF         C4, C64         Capacitor           7         4.7nF         C15, C16, C17, C18, C19, C20, C21         Capacitor           9         4.7uF         C32, C43, C44, C45, C47, C48, C49, C50, C72         Capacitor           1         1 10uF X5R         C34         Capacitor           2         1 18pF         C41, C42         Capacitor           2         2 1nF         C53, C54         Capacitor           3         1 uF         C56, C61, C63         Capacitor           1         1.5nF         C57         Capacitor	Footprint  BAT-2  BAT-2  CAPC1005X05N  CAPC1005X05N
C1, C3, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C22, C23, C24, C25, C26, C27, C28, C29, C29, C30, C33, C35, C36, C37, C38, C39, C55, C62, C65, C66, C67, C68, C69, C70, C71, C74, C75  B 10uF  C2, C31, C40, C46, C51, C52, C73, C78  Capacitor  2 51pF  C4, C64  C3pacitor  7 4.7nF  C15, C16, C17, C18, C19, C20, C21  Capacitor  9 4.7uF  C32, C43, C44, C45, C47, C48, C49, C50, C72  Capacitor  1 10uF XSR  C34  C34  C41, C42  C55, C54  C53, C54  C56, C61, C63  Capacitor	CAPC 1005X05N
C26, C27, C28, C29, C30, C33, C35, C34, C37, C38, C39, C55, C62, C65, Capacitor	CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N
38 100nF     C66, C67, C68, C69, C70, C71, C74, C75     Capacitor       8 10uF     C2, C31, C40, C46, C51, C52, C73, C78     Capacitor       2 51pF     C4, C64     Capacitor       7 4,7nF     C15, C16, C17, C18, C19, C20, C21     Capacitor       9 4,7uF     C32, C43, C44, C45, C47, C48, C49, C50, C72     Capacitor       1 10uF X5R     C34     Capacitor       2 18pF     C41, C42     C41, C42       2 1nF     C53, C54     Capacitor       3 1uF     C56, C61, C63     Capacitor	CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N
2 51pF C4, C64 Capacitor 7 4.7nF C15, C16, C17, C18, C19, C20, C21 Capacitor 9 4.7uF C32, C43, C44, C45, C47, C48, C49, C50, C72 Capacitor 1 10uF X5R C34 Capacitor 2 18pF C41, C42 1 nF C53, C54 Capacitor 3 1uF C56, C61, C63 Capacitor	CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N
7 4.7nF C15, C16, C17, C18, C19, C20, C21 Capacitor 9 4.7uF C32, C43, C44, C45, C47, C48, C49, C50, C72 Capacitor 1 10uF X5R C34 Capacitor 2 18pF C41, C42 2 1nF C53, C54 Capacitor 3 1uF C56, C61, C63 Capacitor	CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N
9 4.7uF C32, C43, C44, C45, C47, C48, C49, C50, C72 Capacitor  1 10uF X5R C34 Capacitor  2 18pF C41, C42  2 1nF C53, C54 Capacitor  3 1uF C56, C61, C63 Capacitor  Capacitor  Capacitor	CAPC1005X05N CAPC1005X05N CAPC1005X05N CAPC1005X05N
1 100F X5R C34 Capacitor 2 18pF C41, C42 2 1nF C53, C54 Capacitor 3 1uF C56, C61, C63 Capacitor	CAPC1005X05N CAPC1005X05N CAPC1005X05N
2 18pF C41, C42 2 1nF C53, C54 Capacitor 3 1uF C56, C61, C63 Capacitor	CAPC1005X05N CAPC1005X05N
2 1nF C53, C54 Capacitor 3 1uF C56, C61, C63 Capacitor	CAPC1005X05N
3 1uF C56, C61, C63 Capacitor	
	CAPC1005X05N
1   1.5nF	
	CAPC1005X05N
3 47nF C58, C59, C60 Capacitor	CAPC1005X05N
4 19-21SURC/S530-A3/TR8 D1, D3, D4, D5 SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N
2 YLL-T50GRB-3-BJ-05 D2, D6	QBLP679E-RGB
12 27-21SURC/S530-A3 D7, D9, D10, D11, D12, D17, D18, D25, D26, D32, D35, D36 SMD Red led right angle mount 2V@20ma 57m 3 27-21/BHC-AN1P2/3C D8, D31, D37 SMD Blue led right angle mount 3.3V@20ma 2t	
3 27-21/BHC-AN1P2/3C D8, D31, D37 SMD Blue led right angle mount 3.3V@20ma 26 8 APTD1608SYCK D13, D14, D15, D16, D21, D22, D23, D24 LED standard - CMS Helios SMD Yellow 590nm	
0	LED_TH_3MM_20MM
2 (SRE479-RGB D27, D38	OBLP679E-RGB
3 APTD1608CGCK D28, D29, D30 LED standard - CMS Helios SMD Green 570nm 2	
2 BATS4S D33, D34 Schottky Barrier Double Diode	SOT23_N
5 2508055017Y2	
1 Speaker IS1 Loudspeaker	PIN2
1 TD4015BPN MC1 Omnidirectional Back Electret Condenser Micro	phone MICRO_TD4015BPN
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16,	
017, O18, O19, O20, O22, O25, O26, O28, Q31, Q32, Q34, Q37, Q38, Q36, Q39, Q40, Q42, Q45, Q46, Q47, Q48 NPN General-purpose Transistor	SOT23_N
R1, R2, R57, R59, R61, R63, R64, R65, R92, R93, R94, R111, R112, R113,	
18 4.7K R114, R144, R145, R146 Resistor	RESC1005X04N
2 33 R3, R5 120, Resistor	RESC1005X04N
2 2.7K R4, R6 Resistor	RESC1005X04N
10 22K R7, R8, R9, R10, R11, R42, R43, R67, R130, R142 120, Resistor R12, R13, R14, R15, R16, R32, R33, R34, R35, R41, R44, R45, R52, R53,	RESC1005X04N
17 2.2K R103, R104, R126 120, Resistor	RESC1005X04N
7 1.5K R17, R18, R19, R20, R26, R46, R47 120	RESC1005X04N
10 1K R21, R22, R23, R24, R25, R48, R49, R108, R166, R167 120, Resistor	RESC1005X04N
R27, R28, R29, R30, R31, R50, R51, R101, R102, R109, R110, R117, R118, 16 10K R128, R129, R136 120, Resistor	RESC1005X04N
7 6.2 R36, R37, R38, R39, R40, R54, R55	RESC1005X04N RESC1005X04N
(10.2   R50, R37, R40, R37, R40, R47, R40, R71, R72, R74, R75, R76, R77, R78, R79, R80, R81,	RESC 1003X04IV
18 56 R90, R91, R98, R147 Resistor, 56	RESC1005X04N
14 39 R66, R82, R83, R84, R85, R86, R87, R88, R89, R95, R96, R97, R133, R134 Resistor	RESC1005X04N
4 200 R68, R71, R99, R148 200	RESC1005X04N
4 82 R70, R73, R100, R149 82	RESC1005X04N
4 100 R105, R106, R135, R150 Resistance, Resistor	RESC1005X04N
2 180 R107, R137 Resistor	RESC1005X04N
2 5.6K R115, R116 Resistor	RESC1005X04N
R119, R120, R121, R122, R123, R124, R138, R139, R141, R143, R155, 15 100K R156, R157, R158, R159 Resistor	RESC1005X04N
1 680K R125 Resistor	RESC1005X04N RESC1005X04N
1 6.8K R127 Resistor	RESC1005X04N RESC1005X04N
5 820 R131, R151, R152, R153, R154 Resistor	RESC1005X04N
1 47K R132 Resistor	RESC1005X04N
1 270K R140 Resistor	RESC1005X04N
1 NCP15XH103F03RC RT1 Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L
1 MicroSD-Astron 5190008-XA4-R S1 MicroSD Card connector 5190008-XA4-R	Astron 5190008-XA4-R
1 SW-PB S2 Switch	FSMRA2JH
4 DMG1013UW-7 T1, T2, T3, T4 Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D	
4 DMG1012UW T5, T6, T7, T8 Transistor MOSFET 1 x N, Pining : 1=G, 2=S, 3=	D SOT65P210X100-3N
1 STM-LIS2DE12-LGA-12 U1	STM-LGA-12
2 ITR9909 U2, U3 Everlight Opto Interrupter	ITR9909_LONG
1 MHz, 85 µA Quad Op Amp, 14-Pin TSSOP, Exte 2 MCP6L04T-E/ST U4, U5 Temperature Range, Tape and Reel	ended TSSOP-ST14_N
2 (WILDERT L. 23) U.S. U.S. (1899) U.S. (17, U.S. U.S. (18, U.S. (	ITR9909_EDGE
8-Bit Serial-Input/Serial or Prallel-Output Shift I	Register with
5 SN74HC595PWR U13, U14, U15, U16, U17 Latched 3-State Outputs	948F-01_N
1 AP2112K-3.3TRG1 U18 300mA, Low Quiescent Current, Fast Transient L	
Go, 128KB Flash, 16KB SRAM, 64-Pin TOFP, Indu	ustrial
1 PIC24FJ128GB106-I/PT U19 Temperature	TQFP-PT64_N
1 IRM-3638T U20 IR Receiver Module (38 kHz) for Remote Contro Stand-Alone System Load Sharing and Li-lon/Li	
Static-Notice System Code Stating and E-round Charge Management Controller, 4,2V, 20-Pin Q	
1 MCP73871-2CAI/ML U21 Temperature	QFN-ML20_N
3 AP2210K-3.3TRG1 U22, U24, U26 300mA, Low Quiescent Current, Fast Transient L	
1 FAN3988 U23 USB/Charger and Over Voltage Detection Device	
1 LM4819M U25 350mW Audio Power Amplifier with Shutdown	
1 Con1x6 X2 1 x 6 pins connector	MHDR1X6
1 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT	629105150521
1 B15-ABLS-8-B2 Y1 Surface Mount Quartz Crystal 8Mhz	HC49/4H_SMX