

1.0 Reference and Address			
Report Number	220124151GZU-001	Original Issued: 24-May-2022	Revised: None
Standard(s)	<p>Household Electric Coffee Makers And Brewing-Type Appliances [UL 1082:2009 Ed.6+R:28Sep2017]</p> <p>Safety of Household and Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2]</p> <p>Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1]</p>		
Applicant	Jiangmen Mielux Intelligent and Technology Co., Ltd.	Manufacturer	Jiangmen Mielux Intelligent and Technology Co., Ltd.
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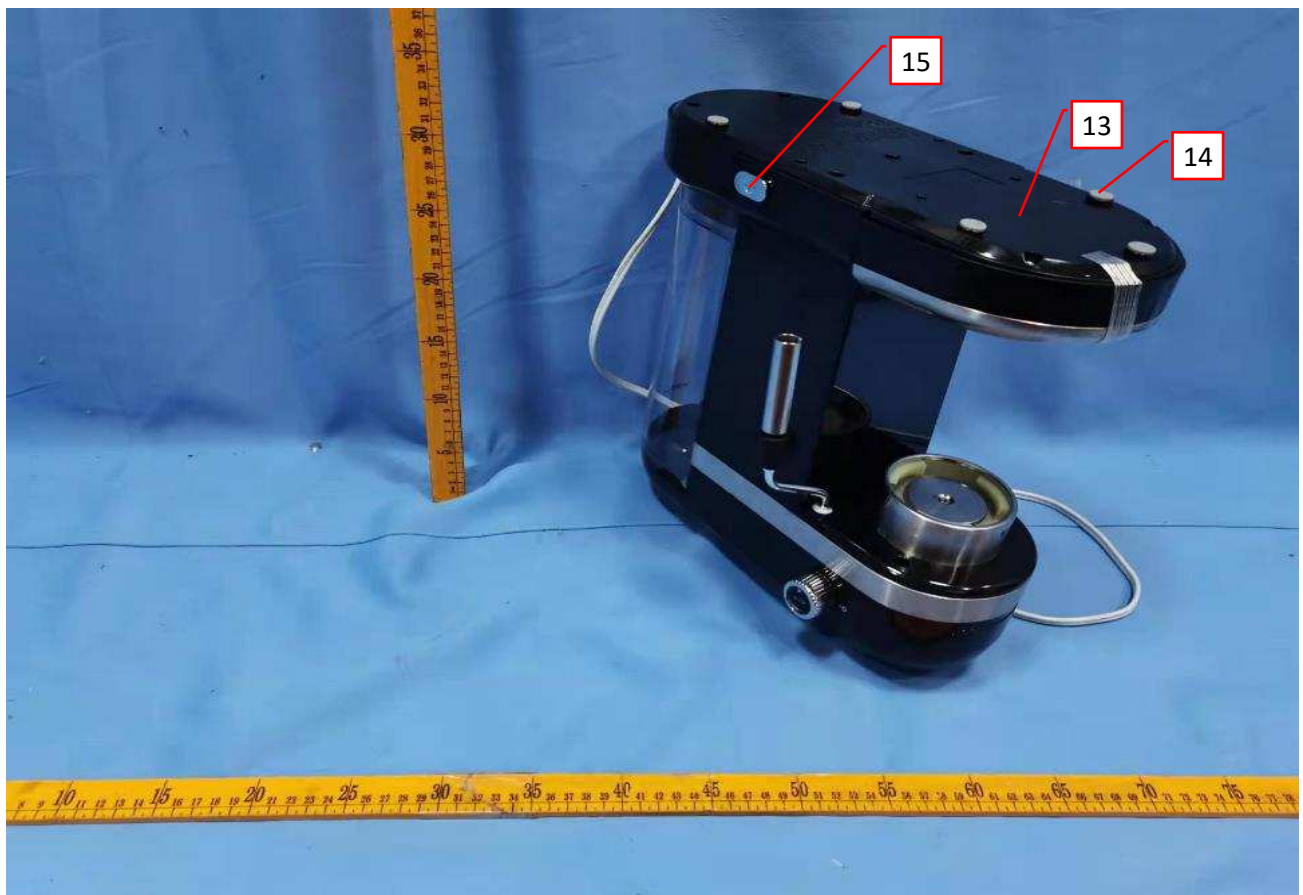
2.0 Product Description	
Product	Espresso Coffee Machine
Brand name	Mielux, Geek Chef, NERETVA.
Description	The product covered by this report is a Coffee Maker having a rating of 120 V, 60 Hz, for household and indoor use only, provided with a non-detachable flexible power supply cord terminated in a 2-wire polarized plug.
Models	EM3101, GCF20D, EM3102, PE3680U, EM3102T, EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P.
Model Similarity	All details refer to Illustration 7 - Model Similarity.
Ratings	120V, 1350W, 60Hz
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External View of model EM3101



Photo 2 - External View of model EM3101



3.0 Product Photographs

Photo 3 - Internal View of model EM3101

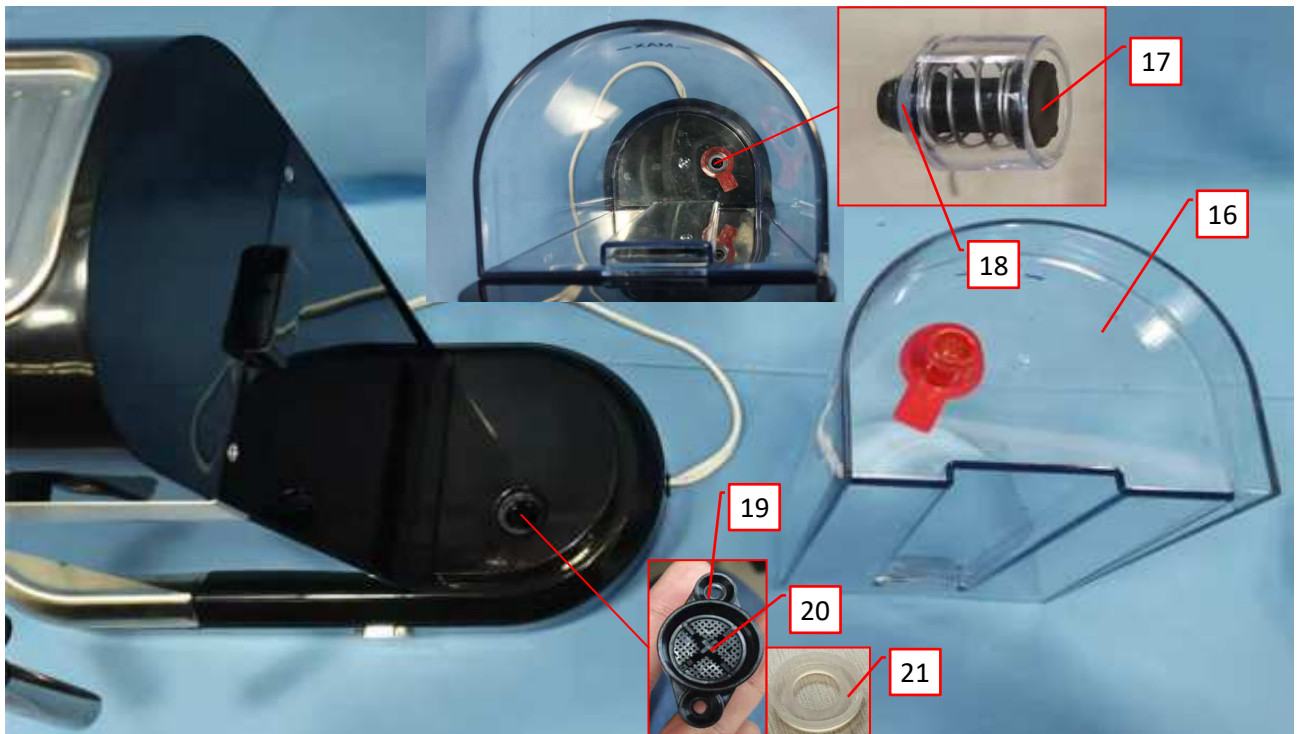


Photo 4 - Internal View of model EM3101



3.0 Product Photographs

Photo 5 - Internal View of model EM3101

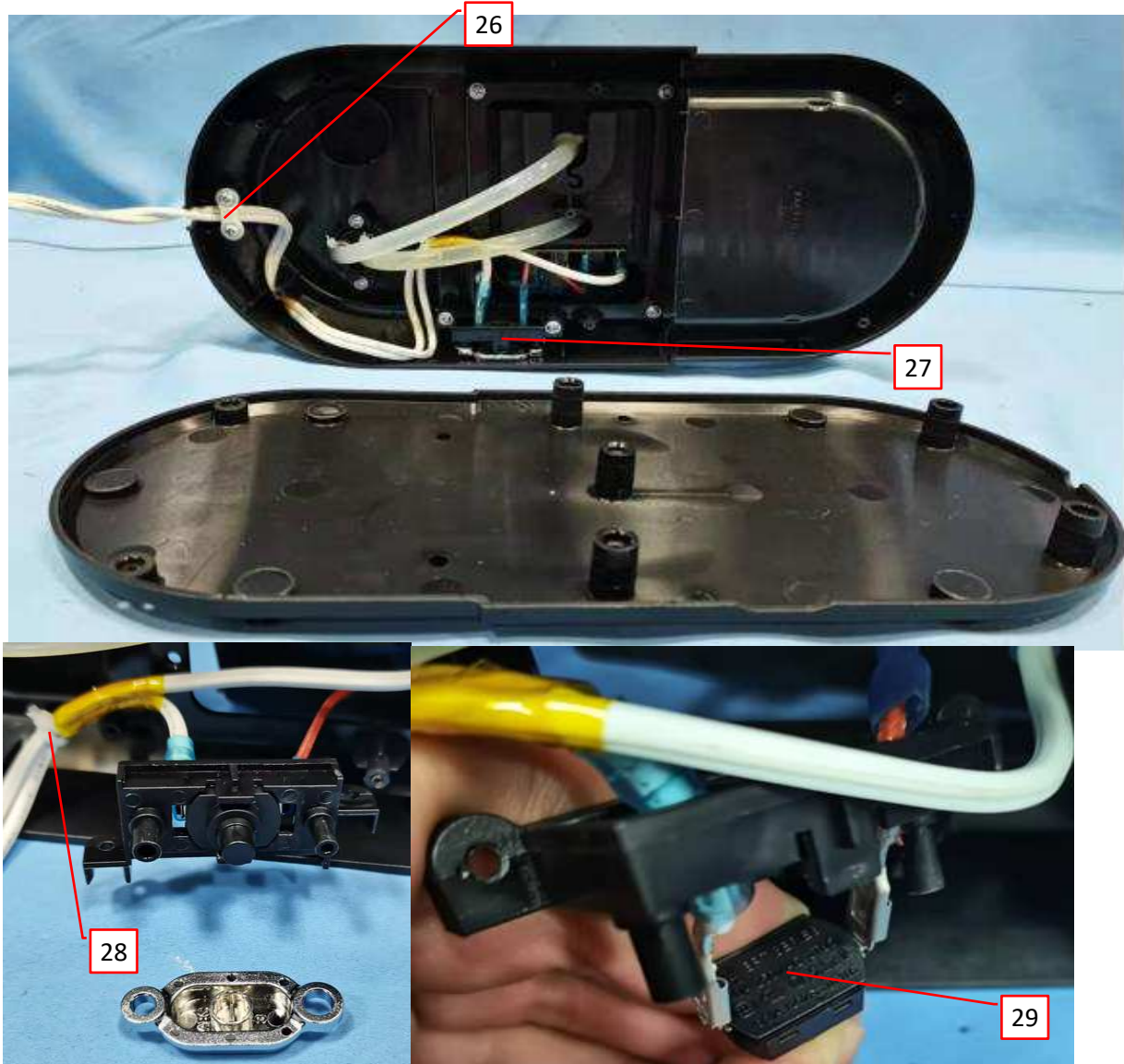
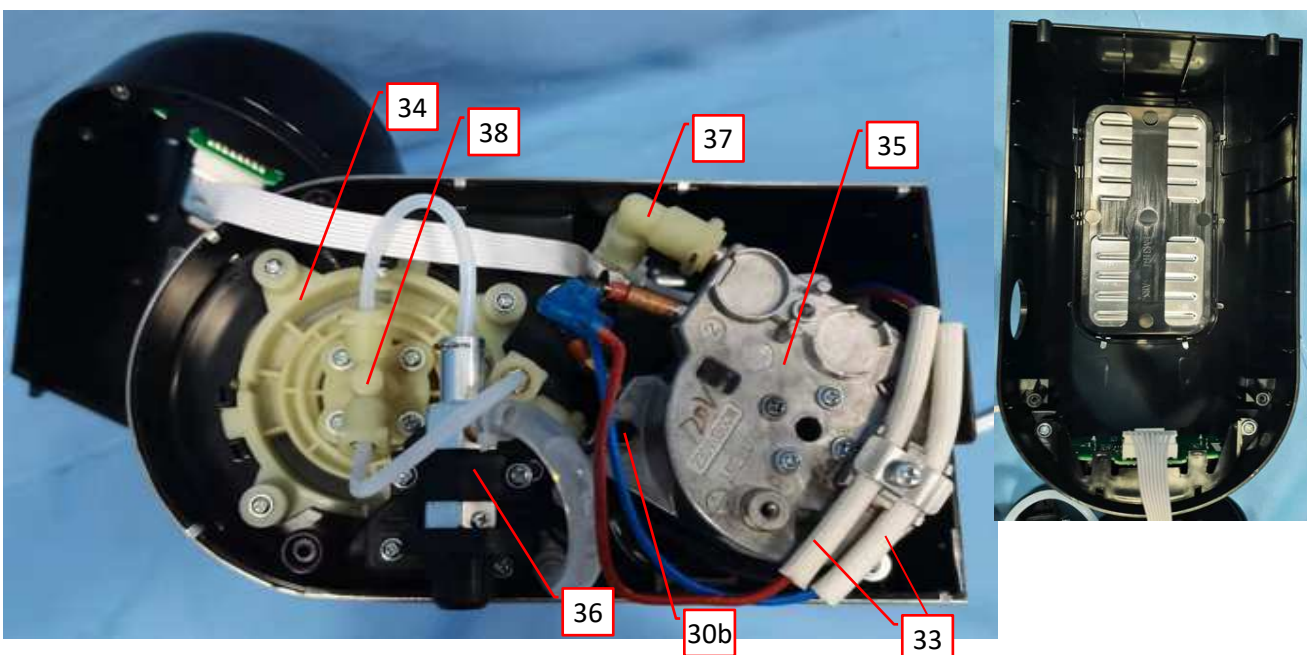


Photo 6 - Internal View of model EM3101



3.0 Product Photographs

Photo 7 - Internal View of model EM3101

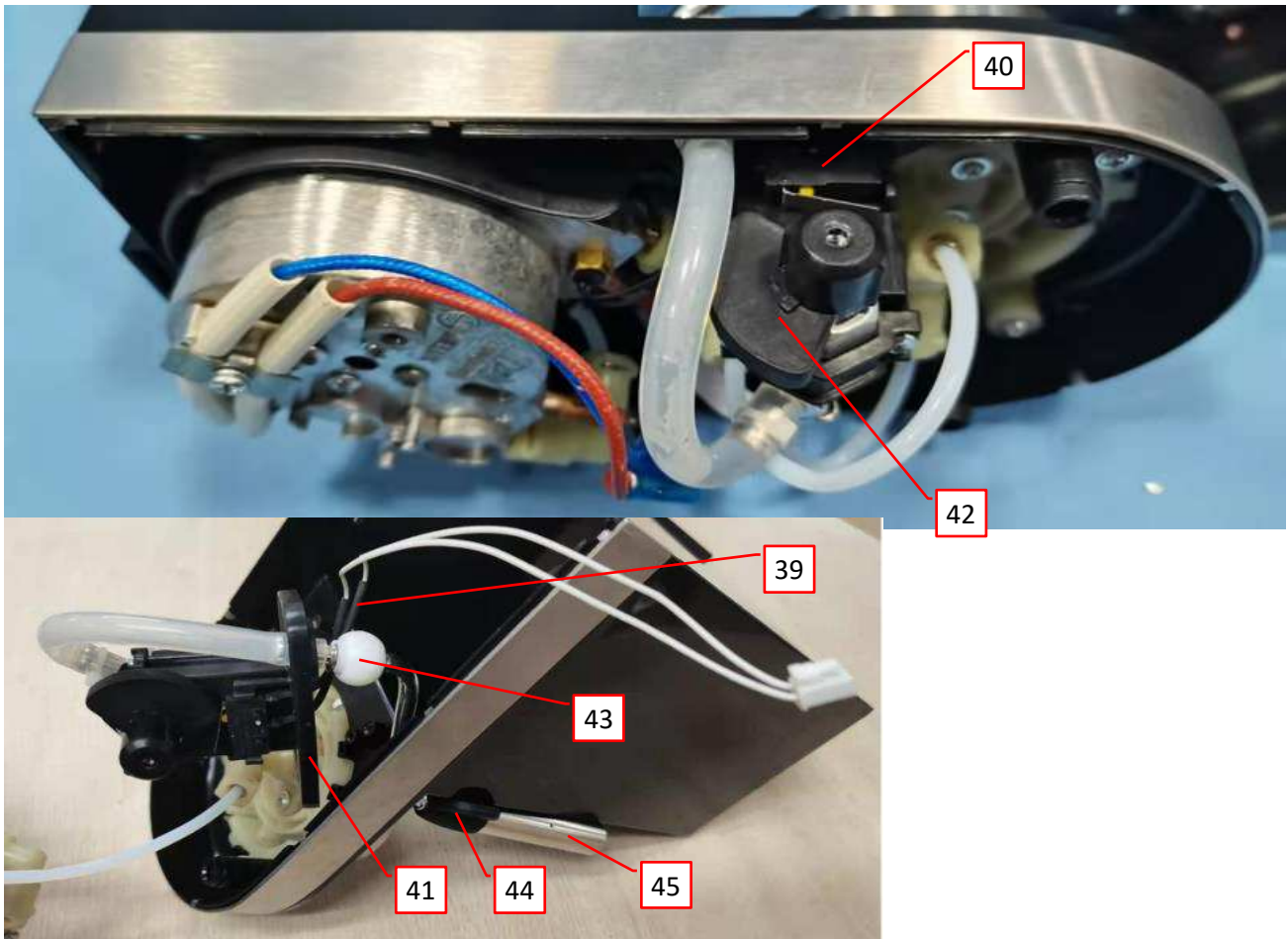
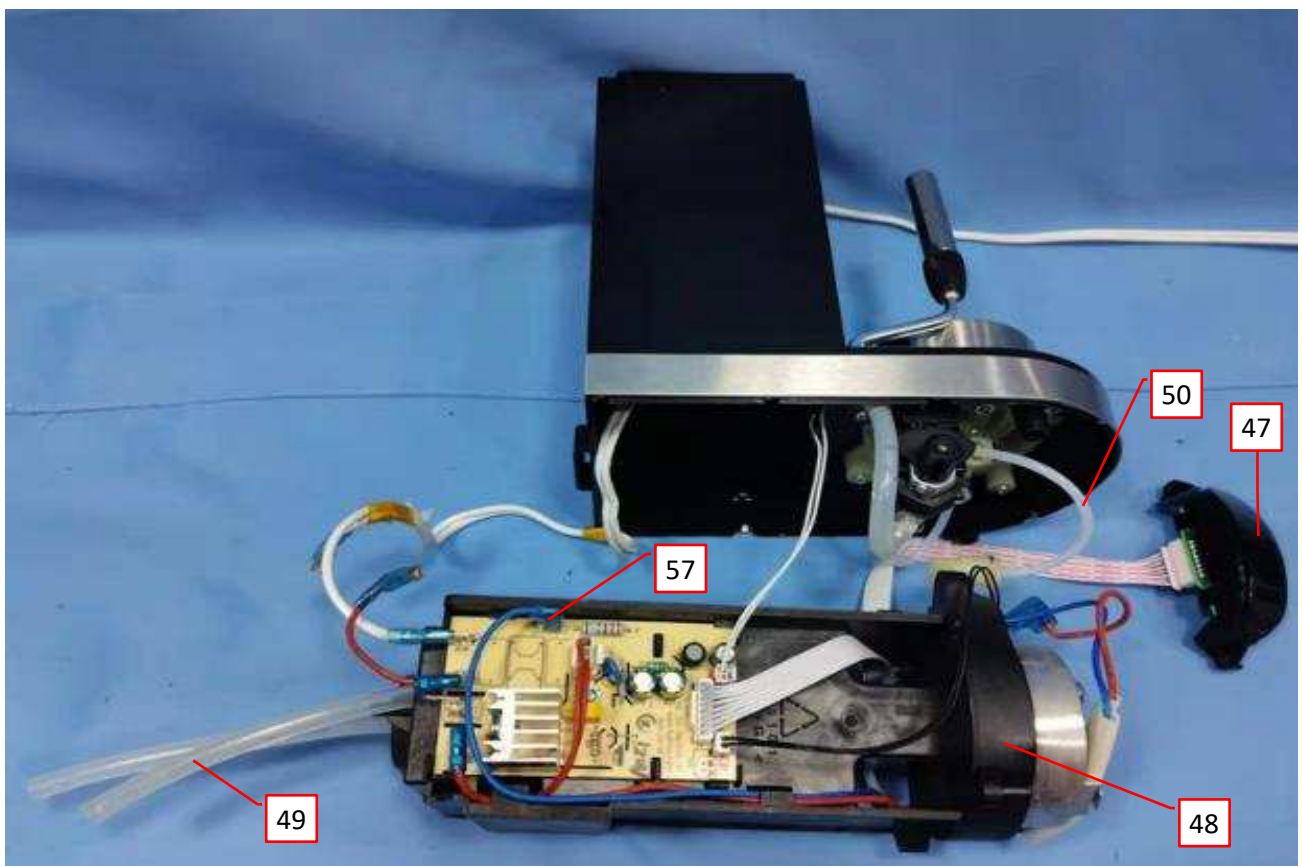
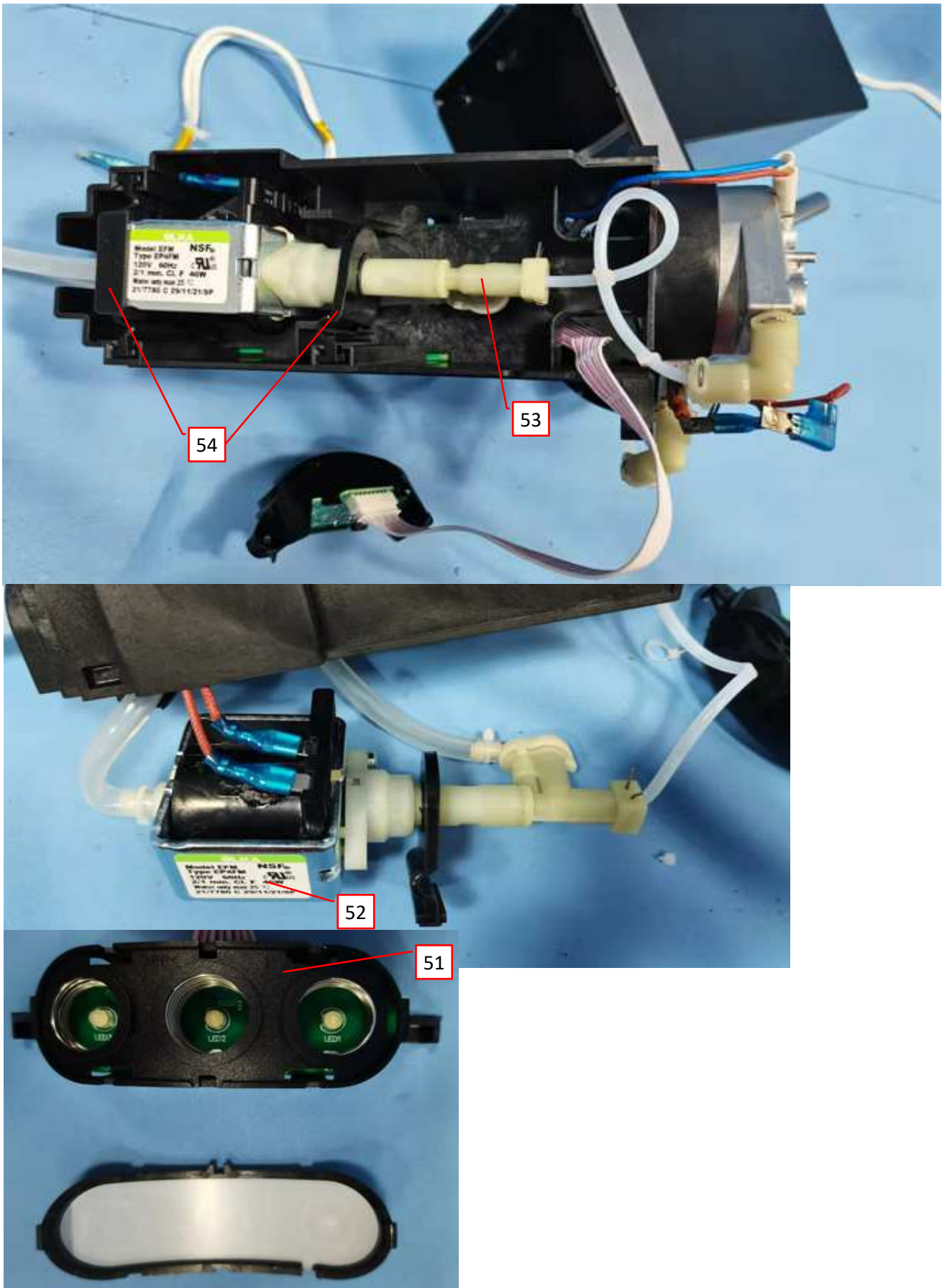


Photo 8 - Internal View of model EM3101



3.0 Product Photographs

Photo 9 - Internal View of model EM3101



3.0 Product Photographs

Photo 10 - View of Control PCB for models EM3101, GCF20D

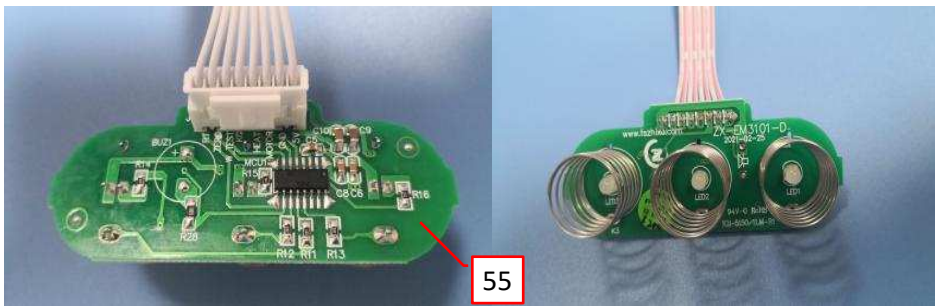
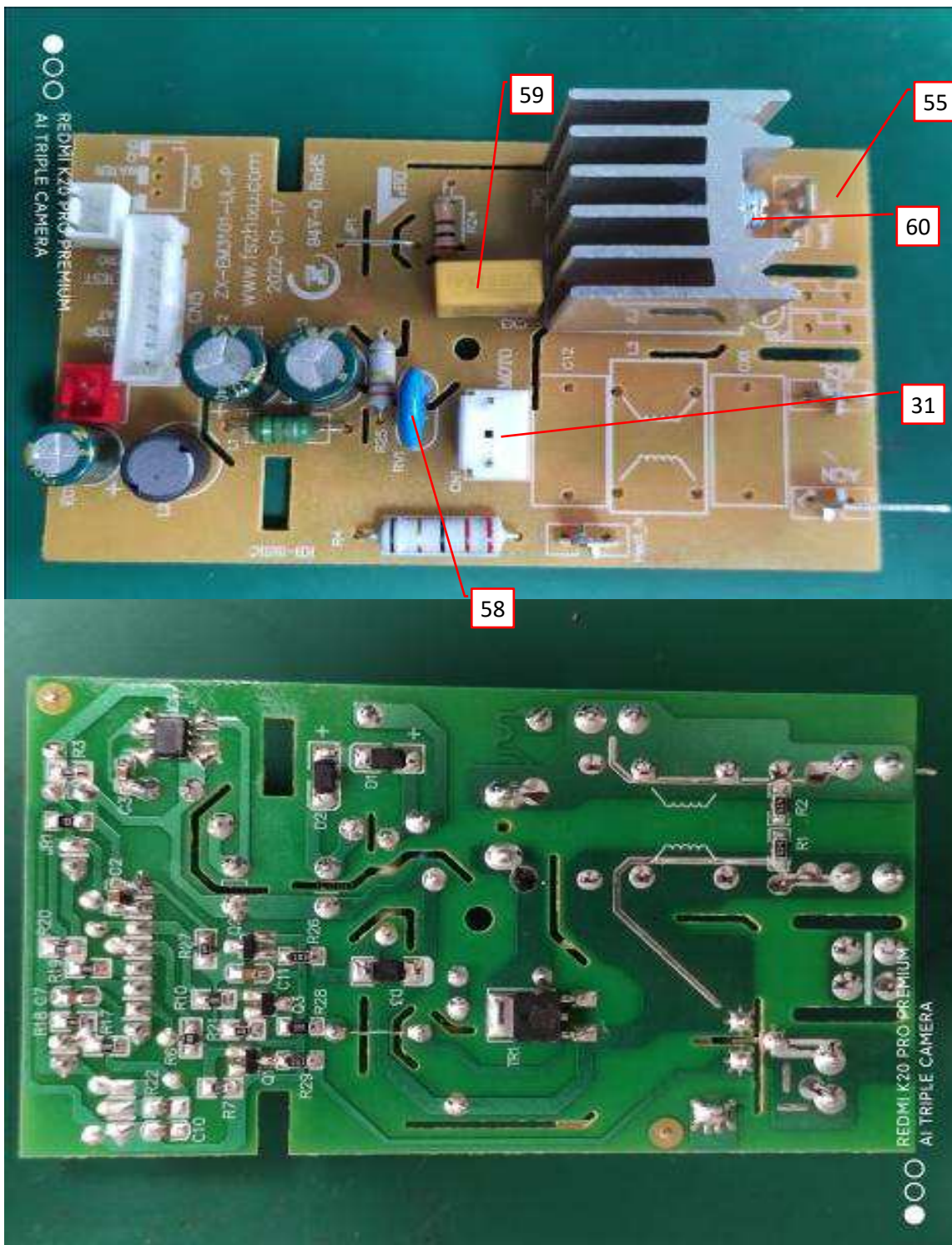


Photo 11 - View of Power PCB for models EM3101, EM3102, PE3680U, EM3102T



3.0 Product Photographs

Photo 12 - External View of models EM3202P and EM3202 in order from left to right

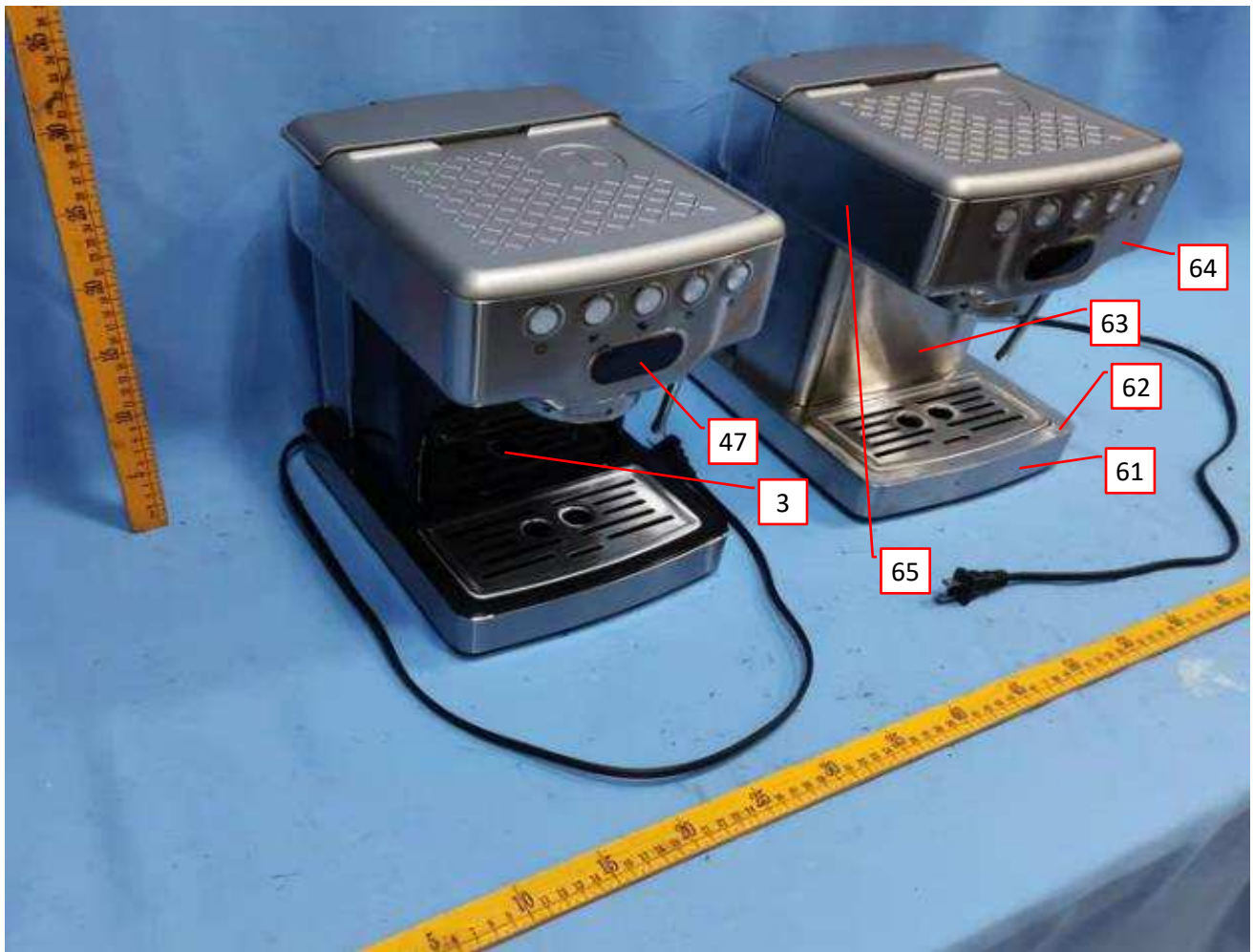


Photo 13 - External View of models EM3202P and EM3202 in order from left to right

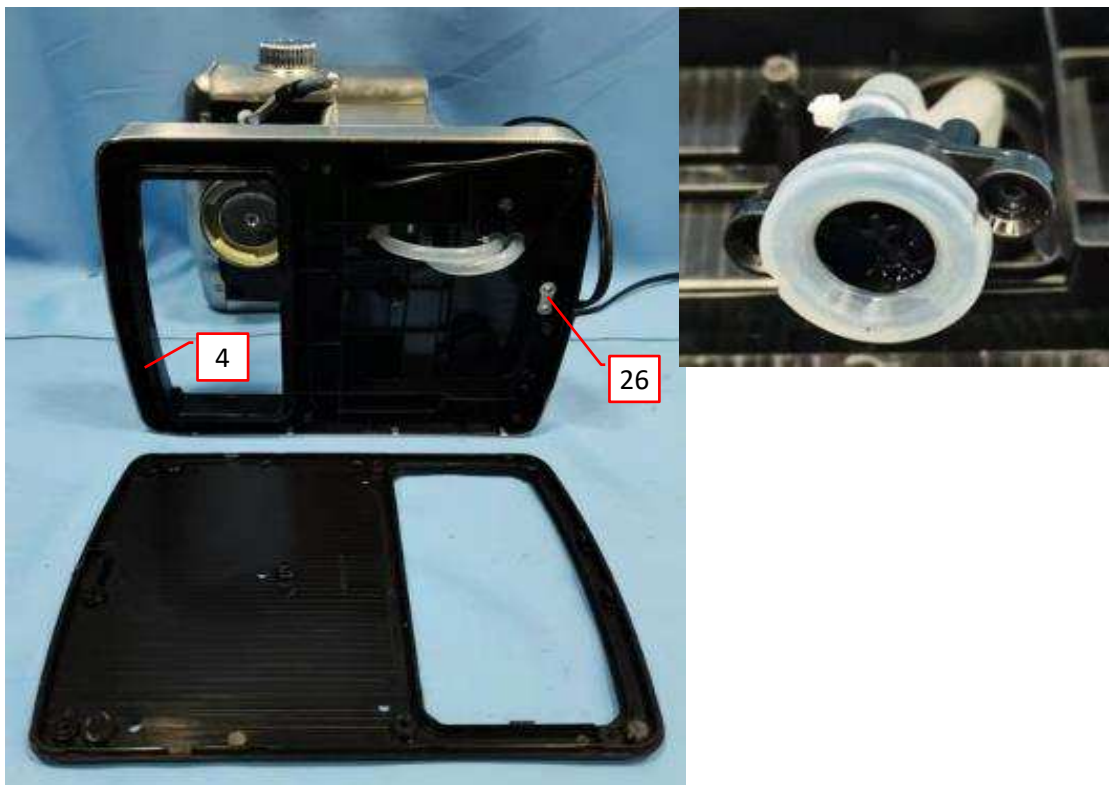


3.0 Product Photographs

Photo 14 - Internal View of models EM3202P and EM3202 in order from up to down



Photo 15 - Internal View of model EM3202



3.0 Product Photographs

Photo 16 - Internal View of model EM3202

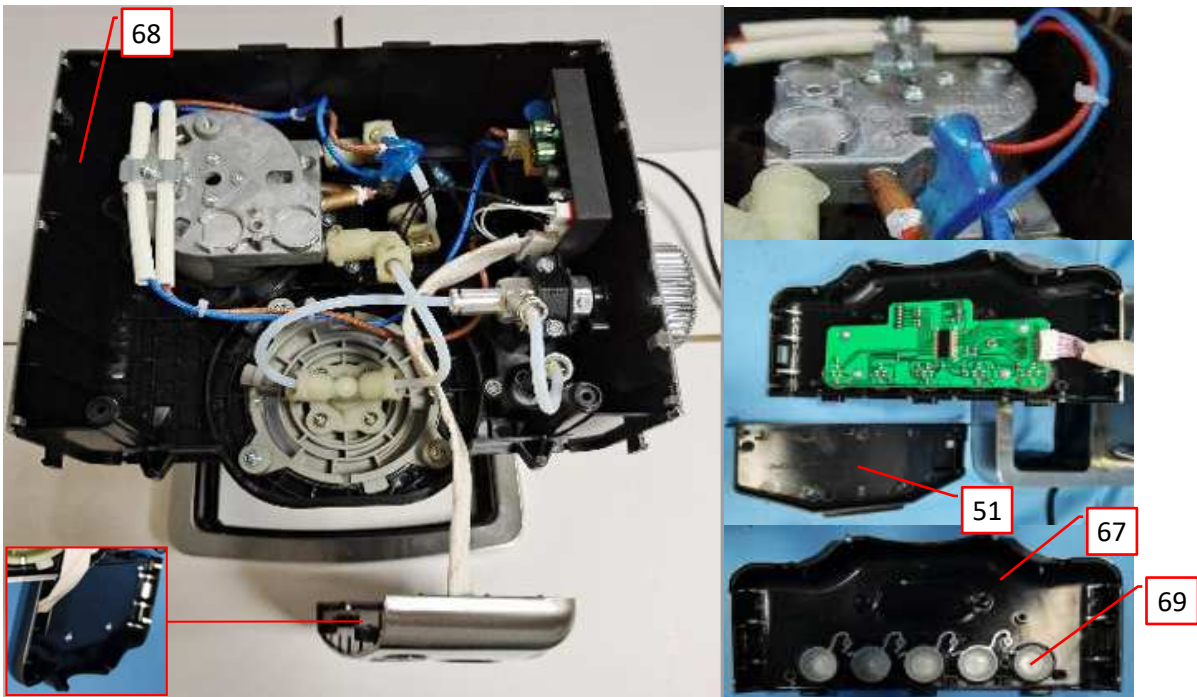
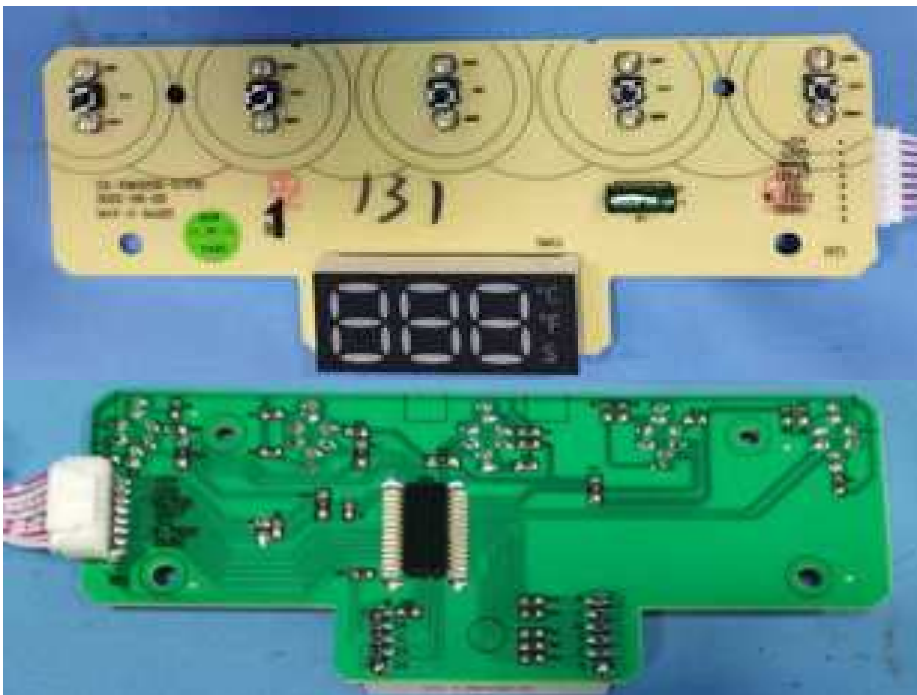


Photo 17 - View of Control PCB for models EM3202, EM3202P



3.0 Product Photographs

Photo 18 - View of Power PCB for models EM3201, EM3201P, EM3201A, EM3202, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P, EM3203A

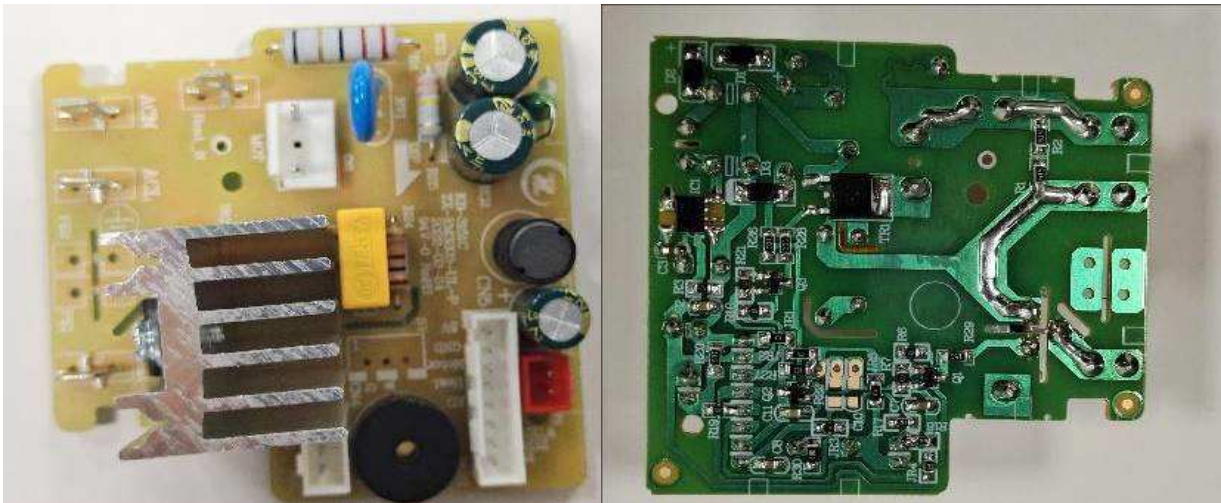
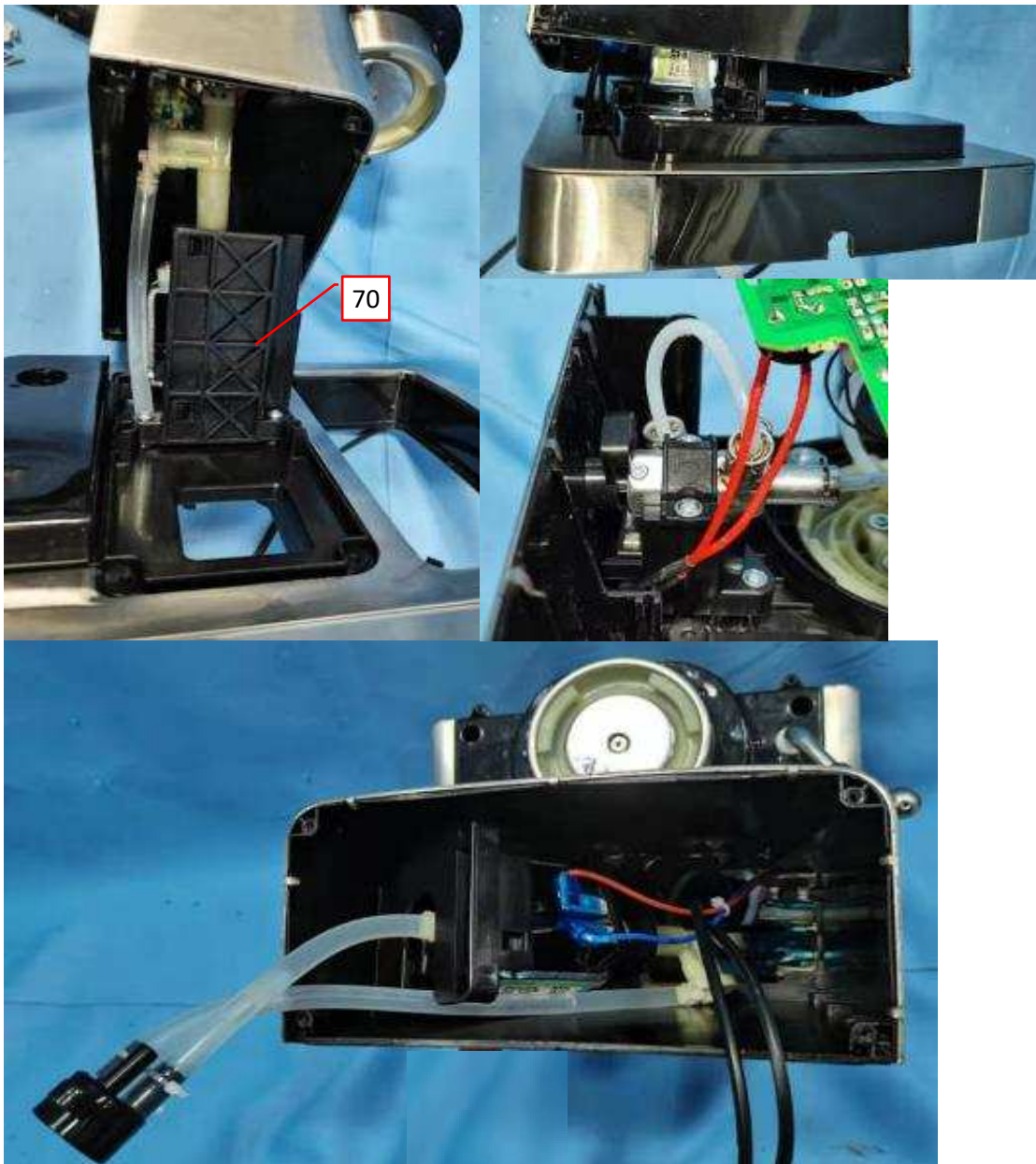


Photo 19 - Internal View of model EM3202



3.0 Product Photographs

Photo 20 - External View of models EM3201A, EM3201P, EM3201 in order from left to right



Photo 21 - External View of models EM3201A, EM3201P, EM3201 in order from left to right

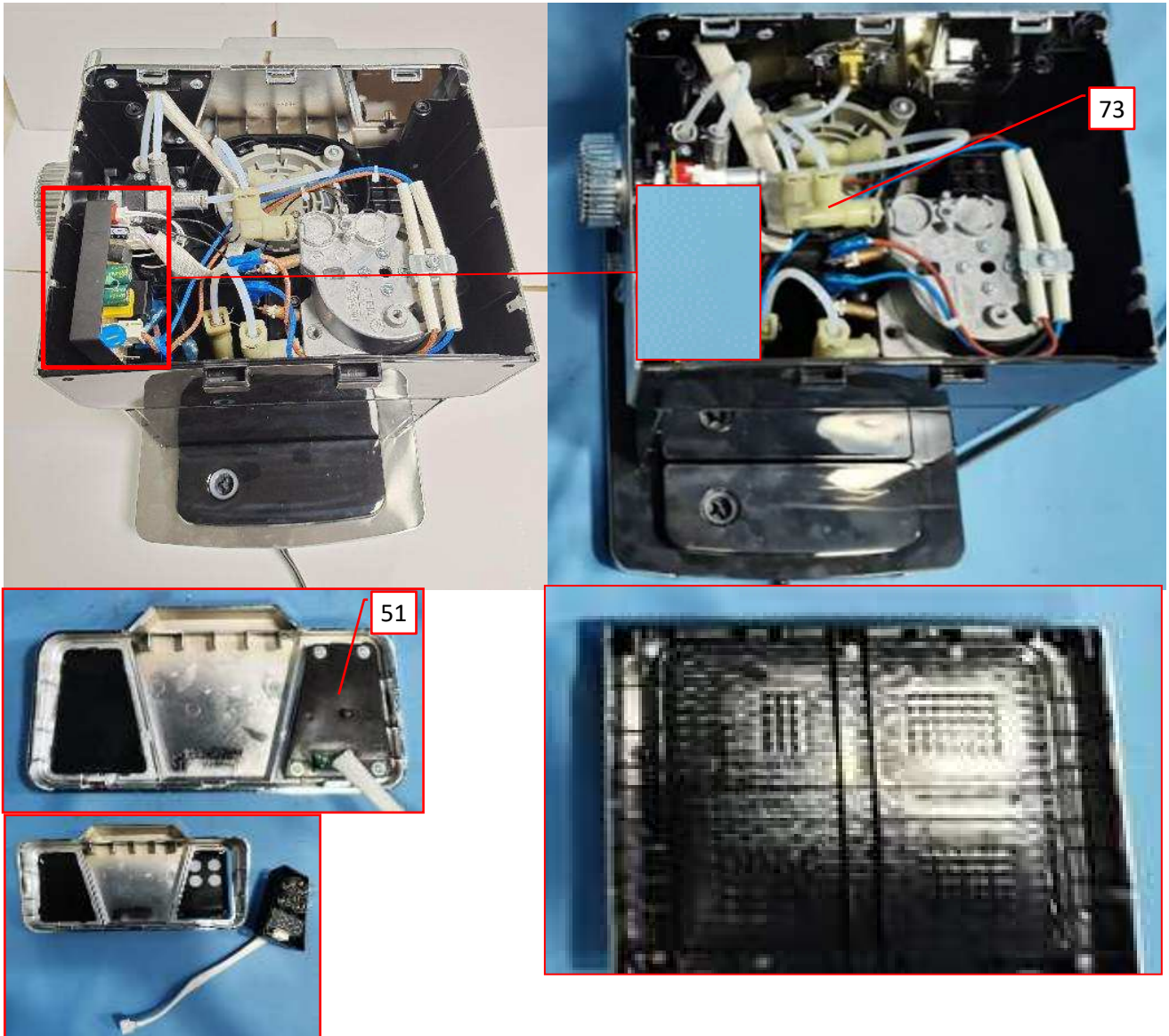


3.0 Product Photographs

Photo 22 - External View of models EM3201A, EM3201P, EM3201 in order from left to right



Photo 23 - Internal View of models EM3201A, EM3201P in order from left to right



3.0 Product Photographs

Photo 24 - View of Control PCB for models EM3201A, EM3201P, EM3201

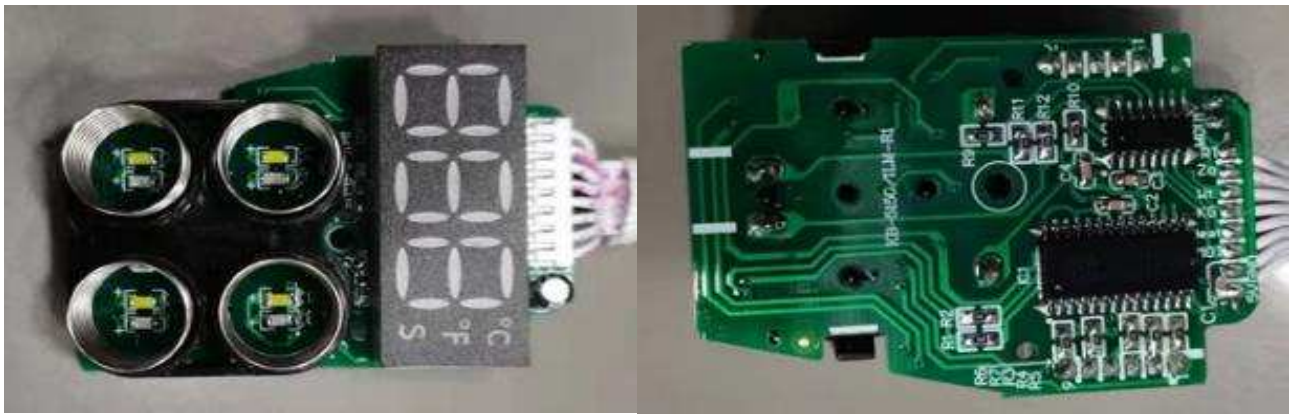


Photo 25 - External View of models EM3102T, EM3102 in order from left to right



Photo 26 - External View of models EM3102T, EM3102 in order from left to right

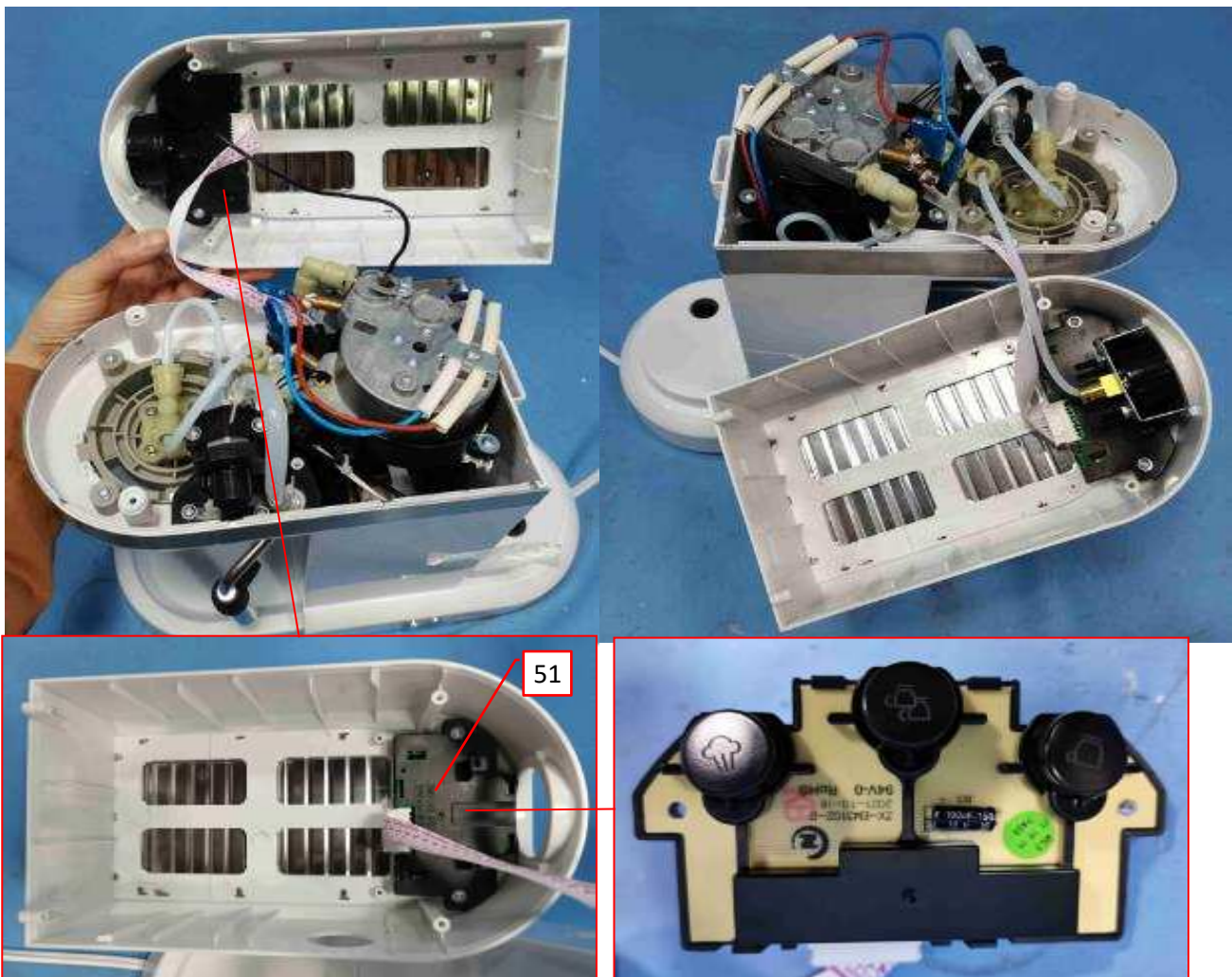


3.0 Product Photographs

Photo 27 - Internal View of models EM3102T, EM3102 in order from left to right



Photo 28 - Internal View of models EM3102T, EM3102 in order from left to right



3.0 Product Photographs

Photo 29 - View of Control PCB for models EM3102T, EM3102

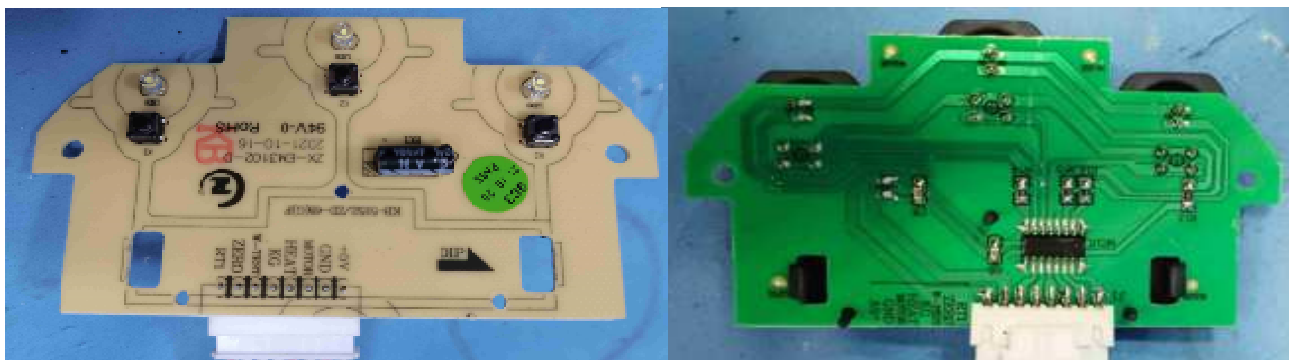
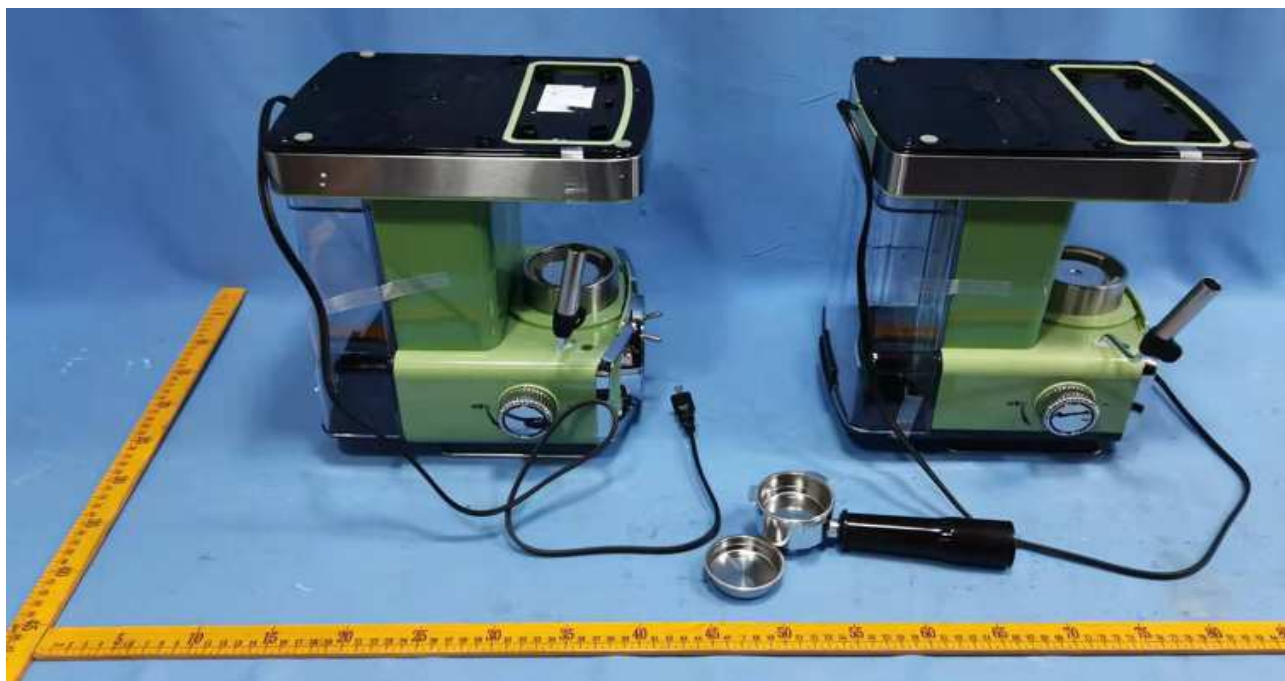


Photo 30 - External View of model EM3203 and EM3203T in order from left to right



Photo 31 - External View of model EM3203 and EM3203T in order from left to right



3.0 Product Photographs

Photo 32 - External View of model EM3203 and EM3203T in order from left to right

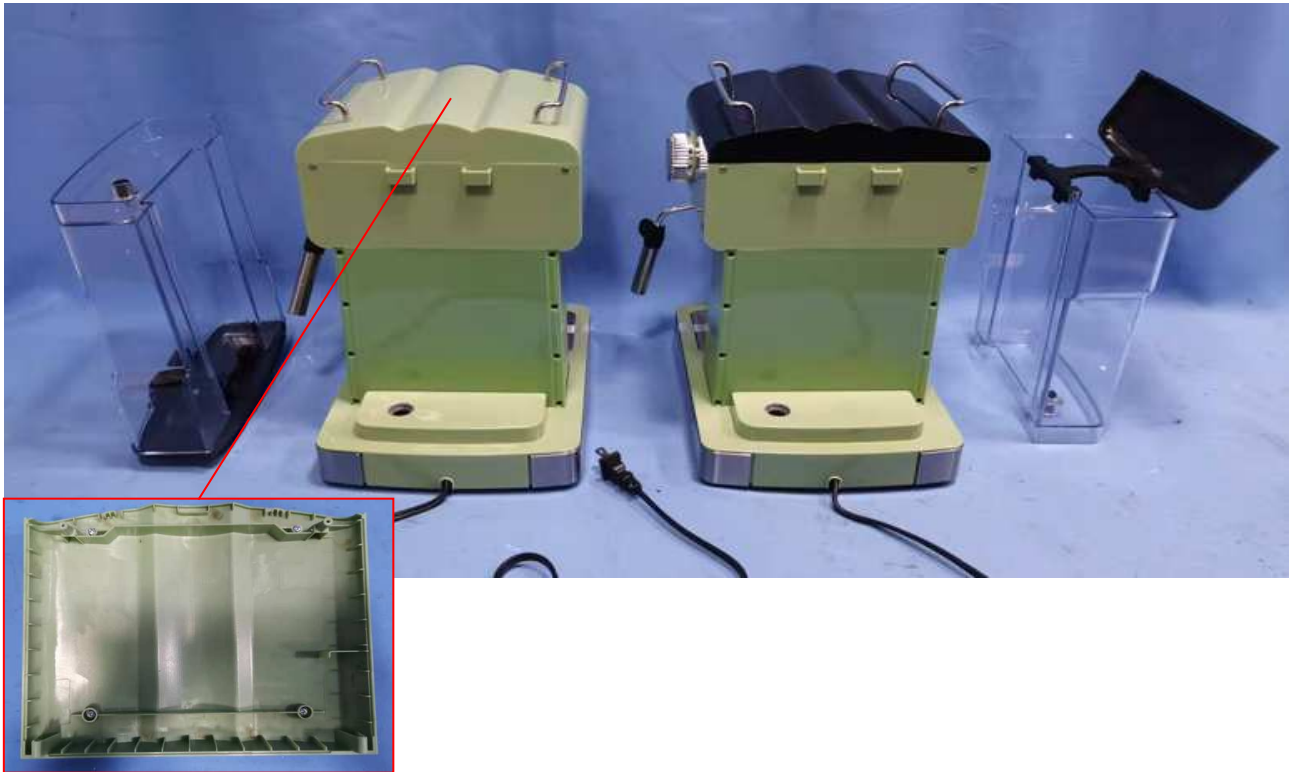
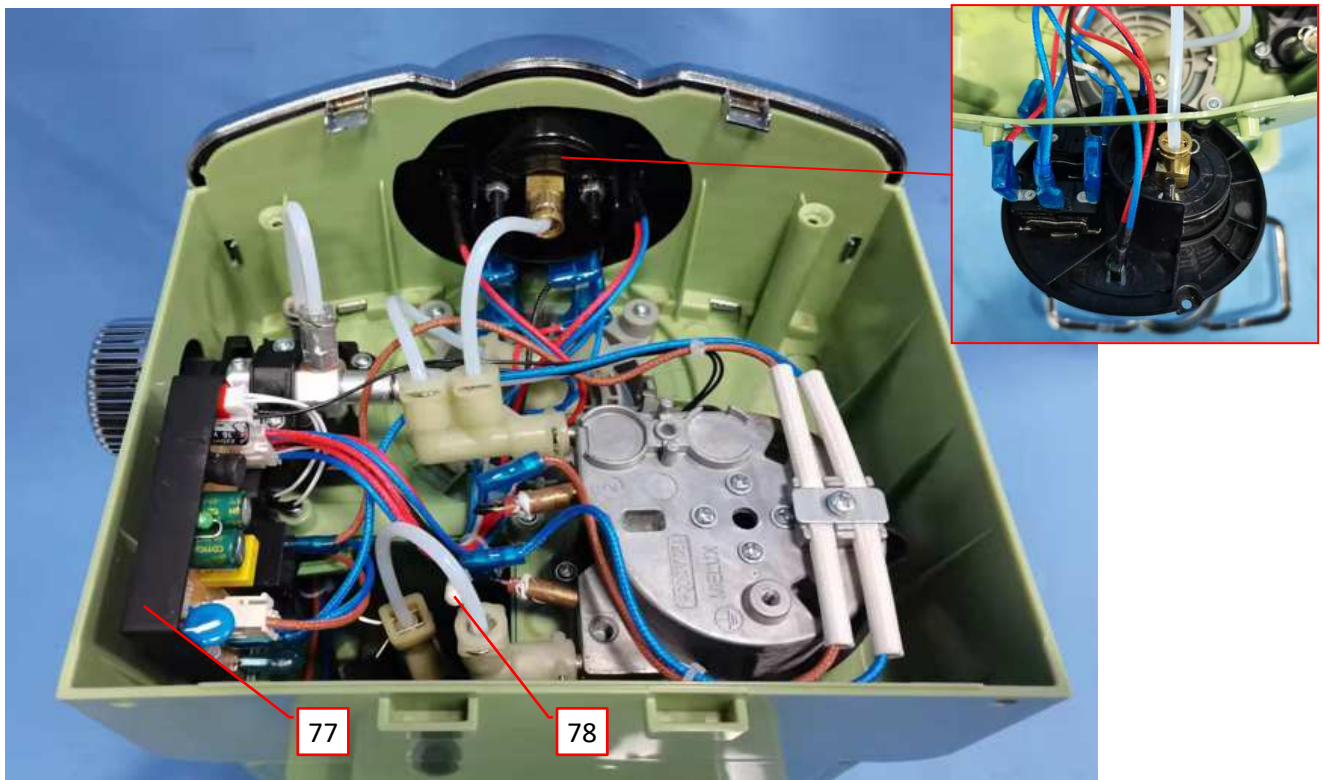
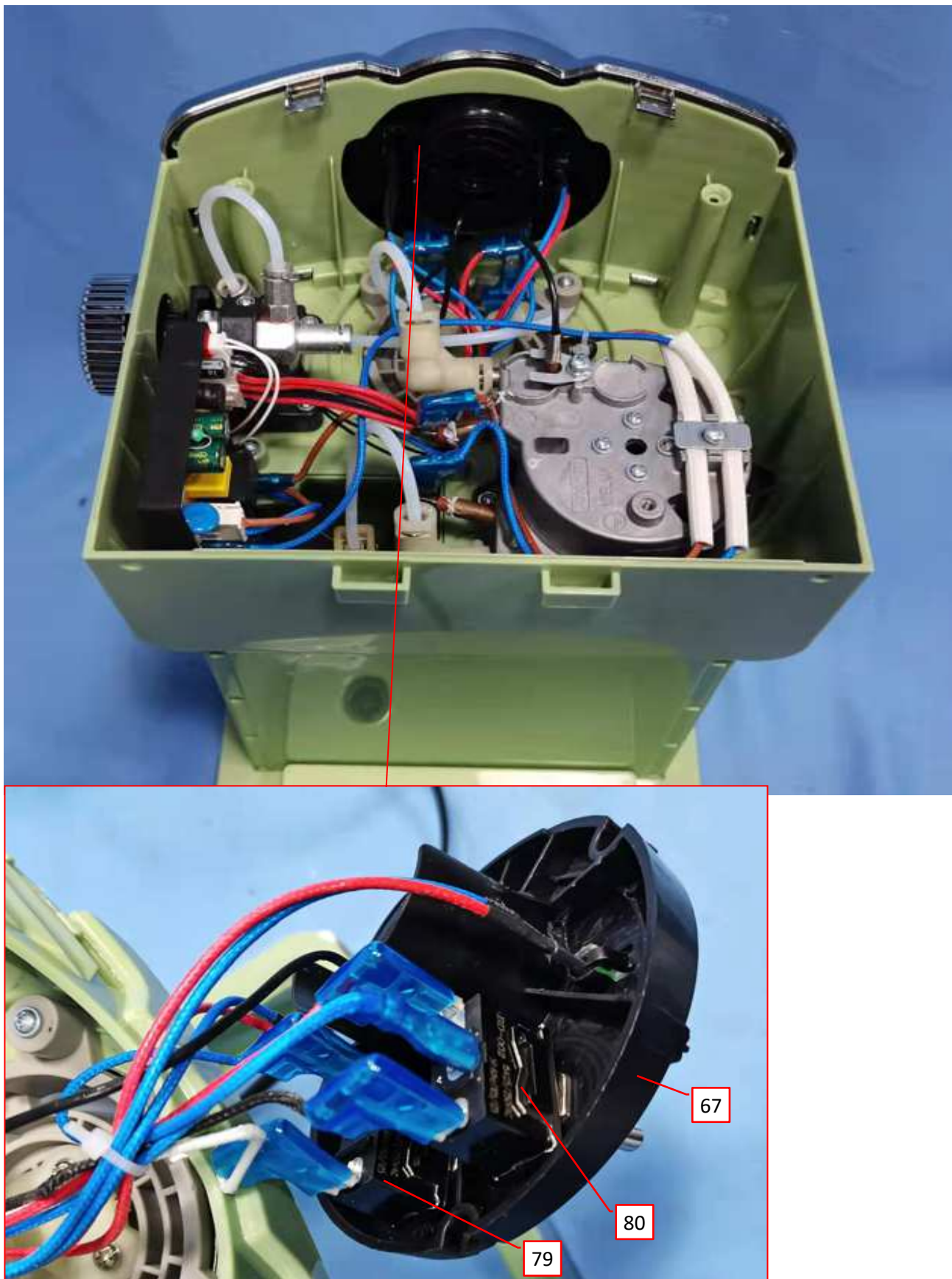


Photo 33 - Internal View of model EM3203



3.0 Product Photographs

Photo 34 - Internal View of model EM3203T



3.0 Product Photographs

Photo 35 - View of Power PCB for models EM3203, EM3203T

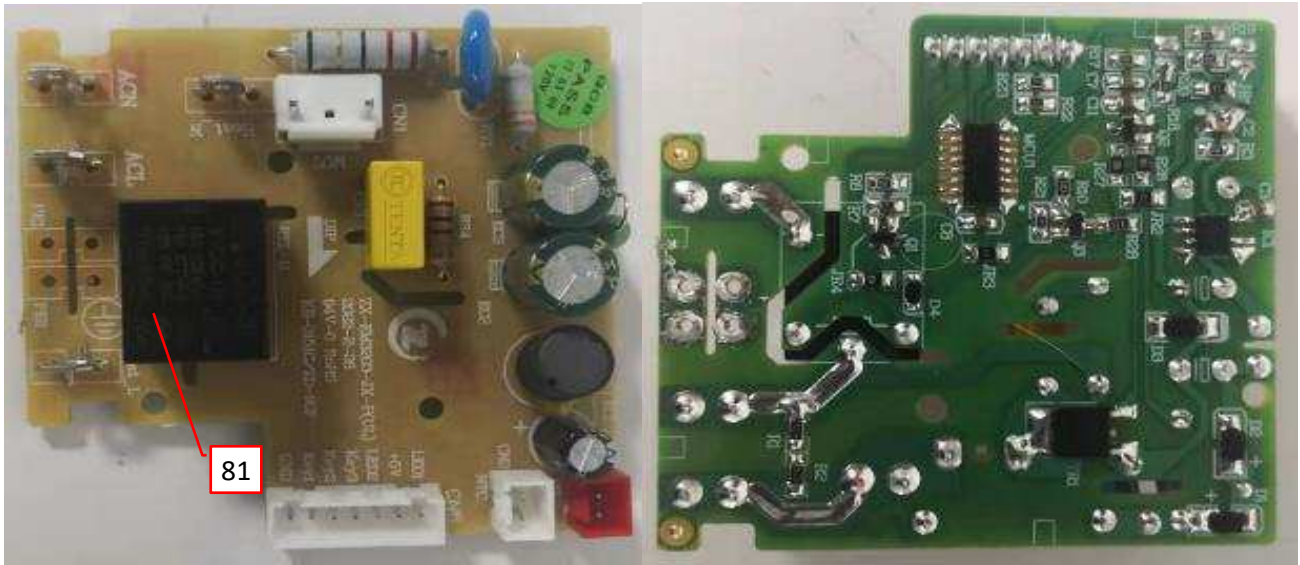
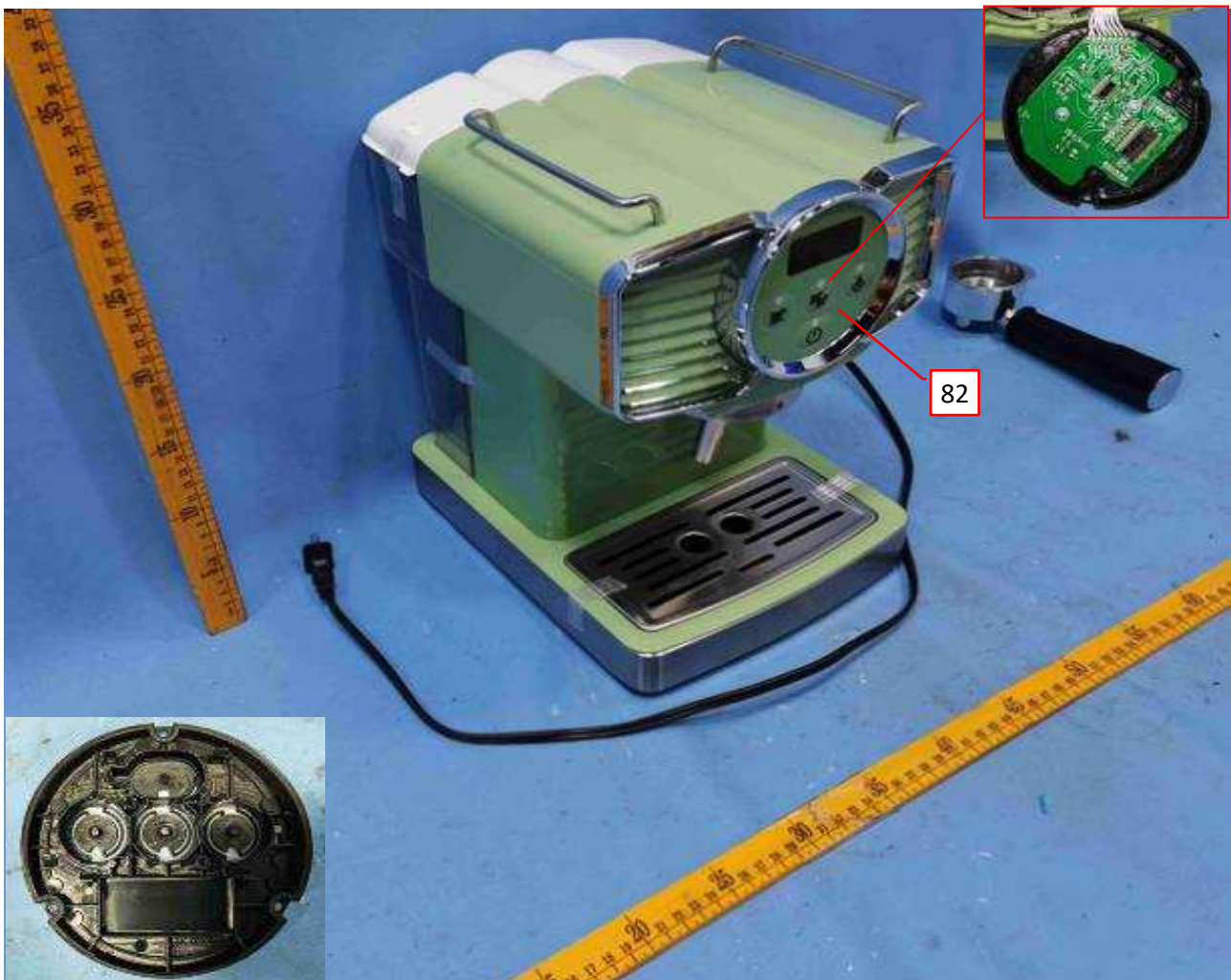


Photo 36 - External View of model EM3203A

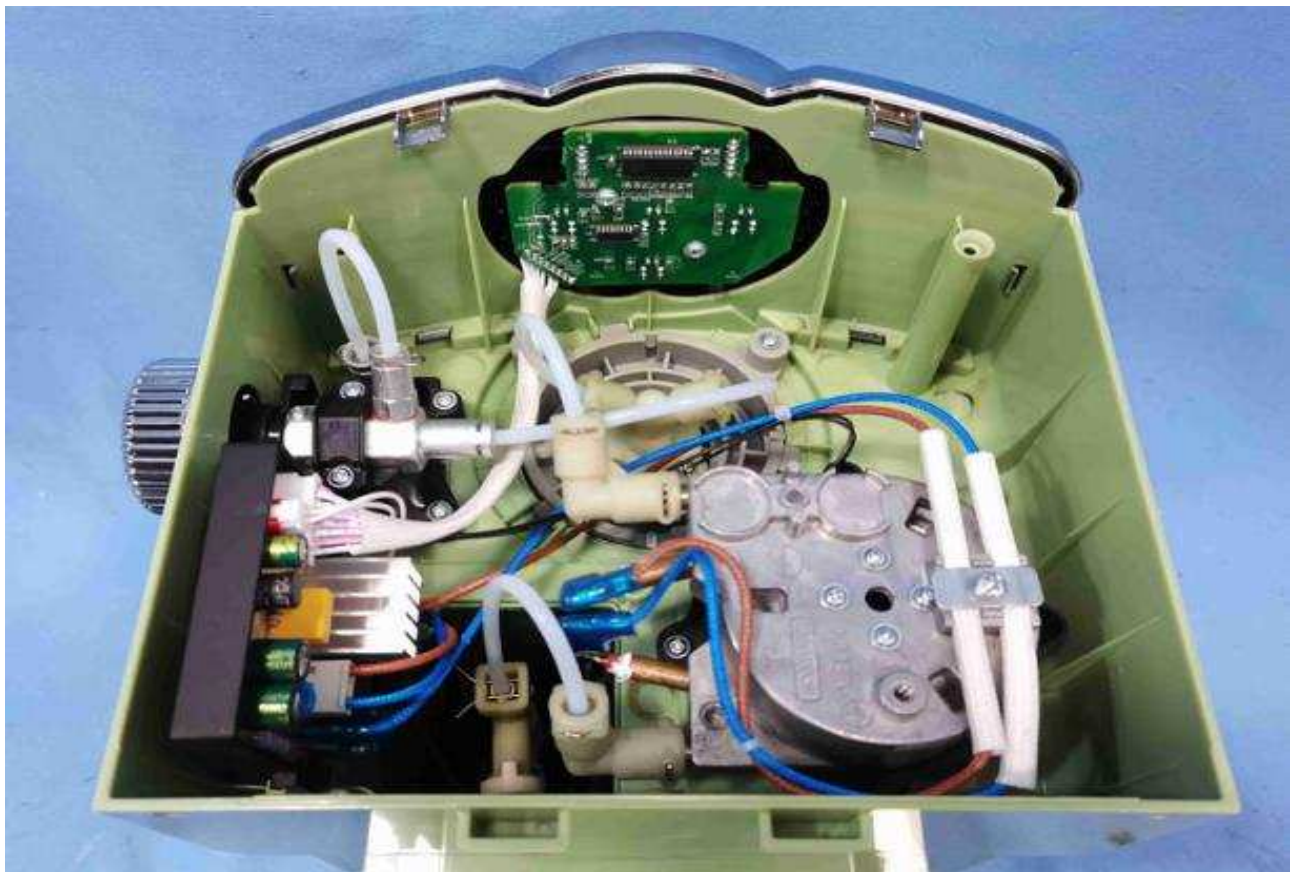


3.0 Product Photographs

Photo 37 - External View of model EM3203A



Photo 38 - Internal View of model EM3203A



3.0 Product Photographs

Photo 39 - View of Control PCB for model EM3203A



Photo 40 - External View of models EM3206T, EM3206P, EM3206



3.0 Product Photographs

Photo 41 - External View of models EM3206T, EM3206P, EM3206



Photo 42 - Internal View of model EM3206



3.0 Product Photographs

Photo 43 - Internal View of model EM3206

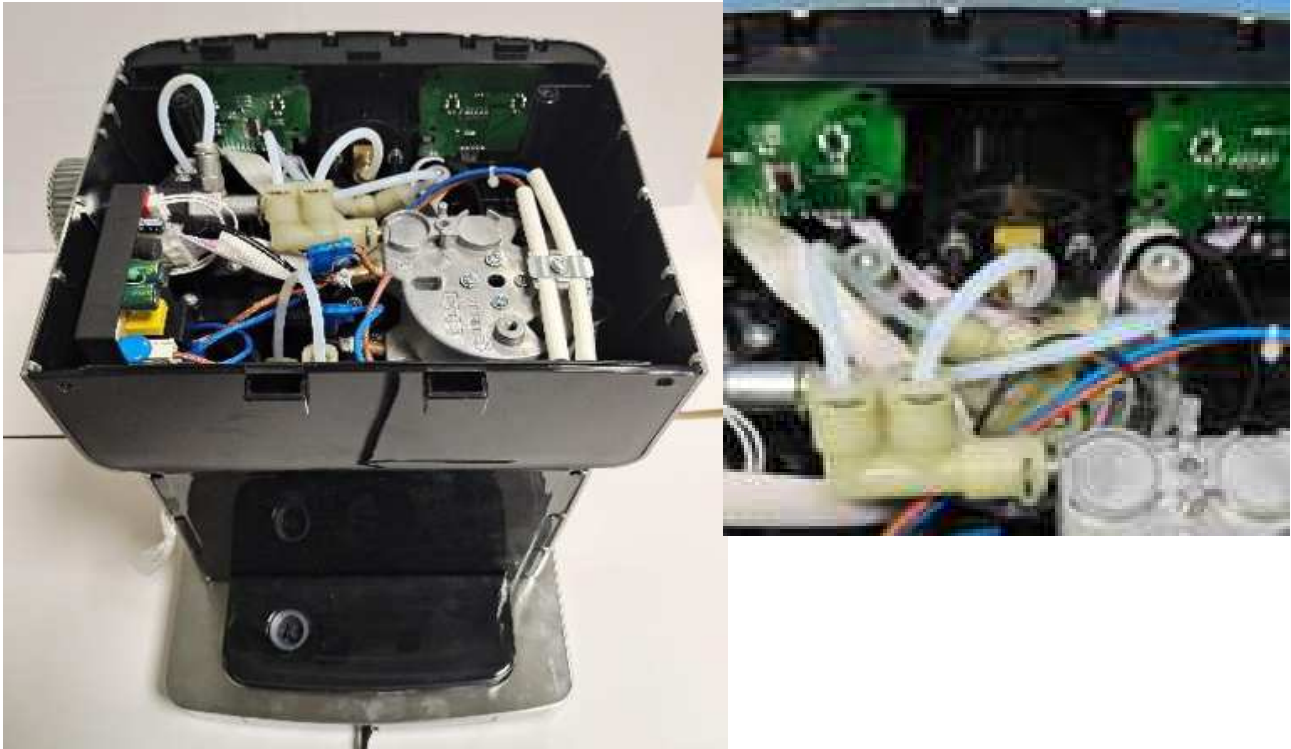
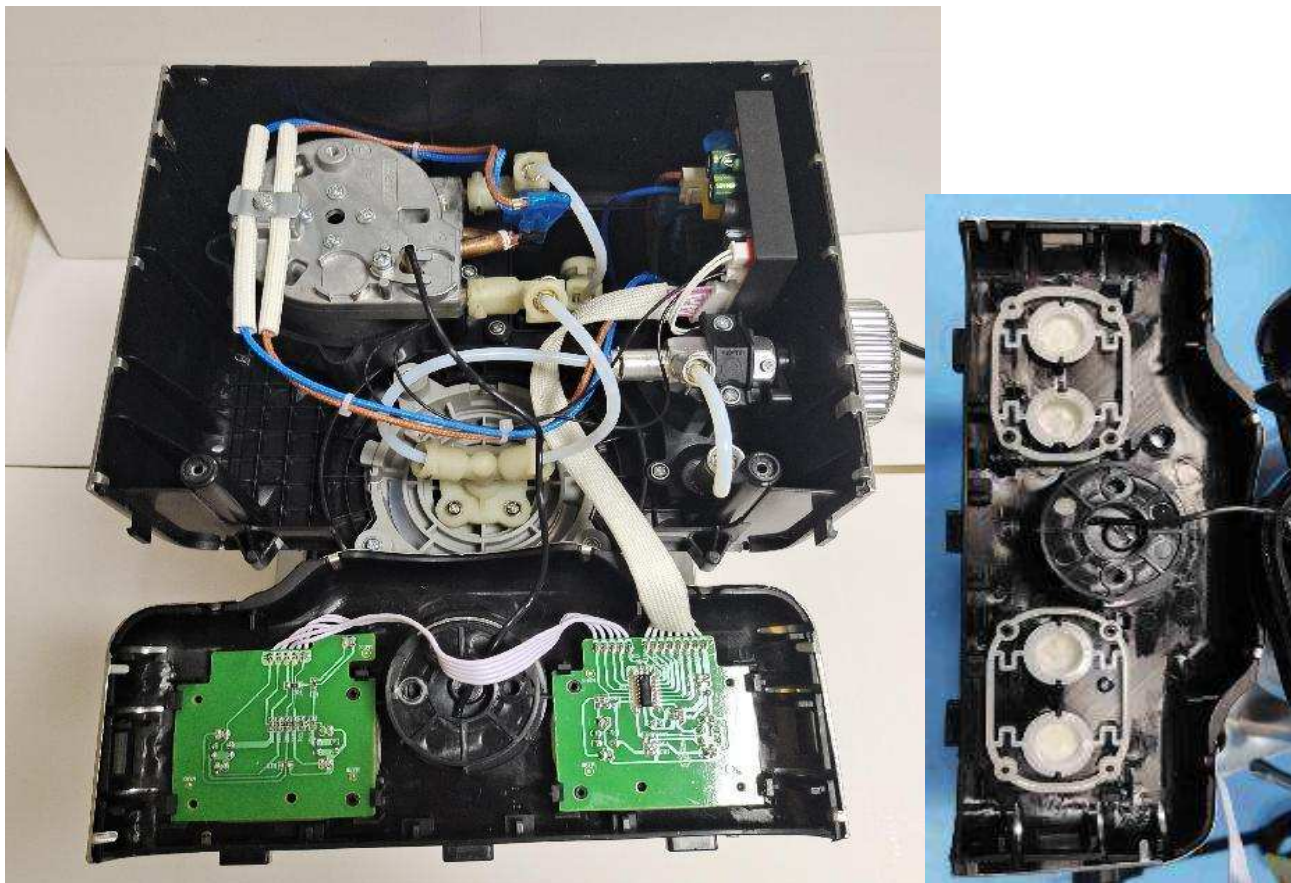


Photo 44 - Internal View of model EM3206T



3.0 Product Photographs

Photo 45 - View of Control PCB for models EM3206, EM3206P, EM3206T

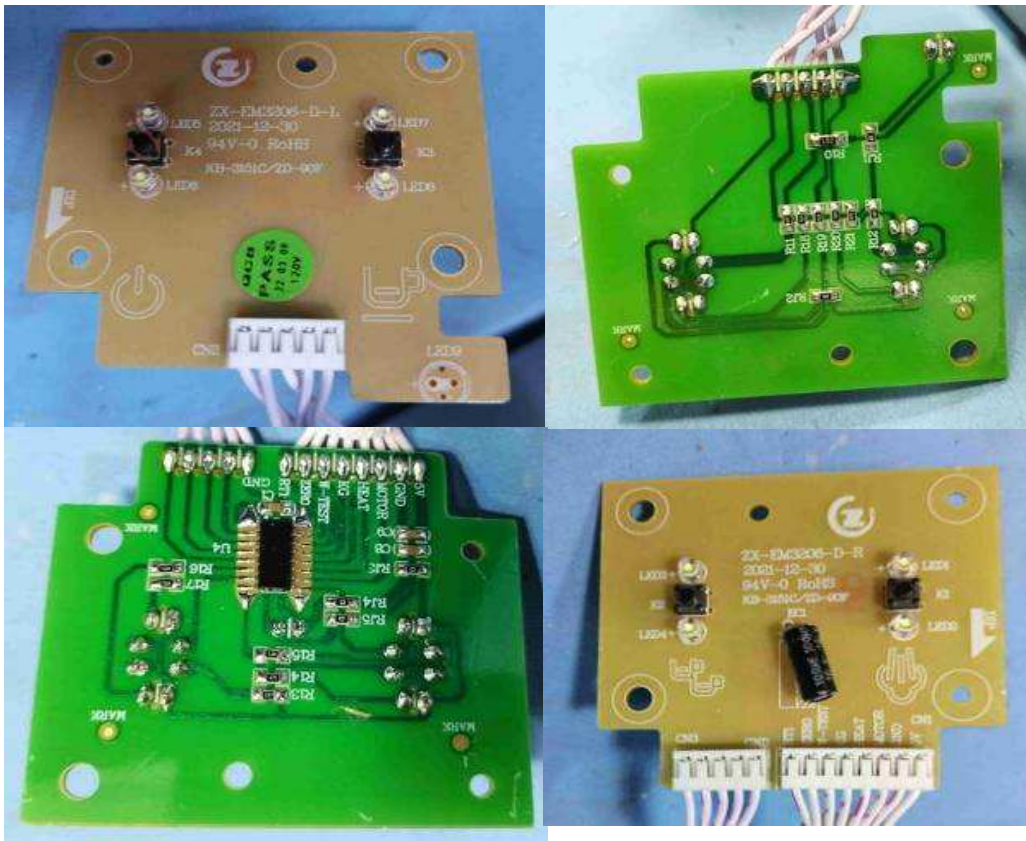


Photo 46 - External View of models EM3207, EM3207P



3.0 Product Photographs

Photo 47 - External View of models EM3207, EM3207P



Photo 48 - Internal View of model EM3207



3.0 Product Photographs

Photo 49 - View of Control PCB for models EM3207, EM3207P



Photo 50 - View of Toggle Switch 1, type BD-001 for models EM3203, EM3203T

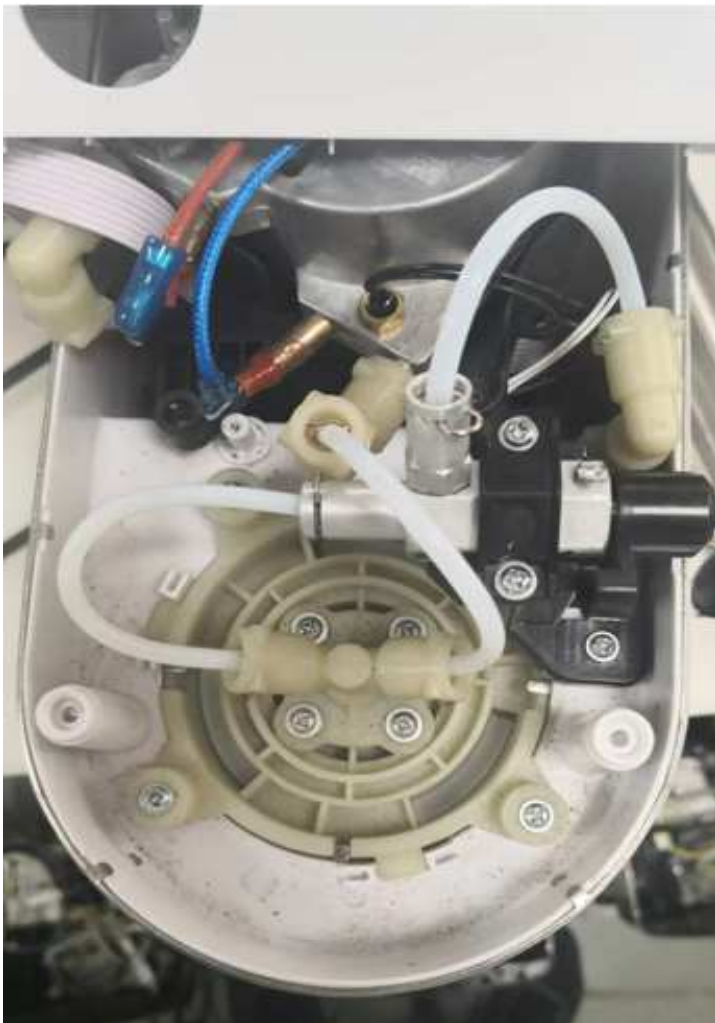


3.0 Product Photographs

Photo 51 - View of Toggle Switch 2, type BD-002 for models EM3203, EM3203T



Photo 52 - Internal View of models EM3101, GCF20D, EM3102, PE3680U, EM3102T with optional Steam outlet tub and connector construction



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Power Supply Cord	Various	SPT-2	Rated 16AWG x 2C, 105°C, 300V, VW-1, with length within the range of 0.6-2.1 m from cord entry to plug face, terminated in a listed attachment polarized plug type 1-15P.	cULus or cETLus
1	2	Top cover	NINGBO LG YONGXING CHEMICAL CO LTD (E203955)	HI-121H	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. ABS. Rated HB, 80°C, min. 1.5 mm thick.	cURus
			JIANGSU WOTE ADVANCED MATERIALS CO LTD (E300581)	2000	For models EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. ABS. Rated V-0, 90°C, min. 1.5 mm thick.	cURus
			HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3201, EM3201P, EM3201A. PP. Rated V-2, 130 °C, min. 1.5 mm thick.	cURus
1, 12	3	Main Housing	CHI MEI CORPORATION (E56070)	PA-765(+)	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. ABS. Rated V-0, HWI=2, HAI=0, CTI=1, 80°C, min. 1.5 mm thick.	cURus
			HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PP. Rated V-2, HWI=2, HAI=0, CTI=0, 130°C, min. 1.5 mm thick.	cURus
1, 15	4	Base	NINGBO LG YONGXING CHEMICAL CO LTD (E203955)	HI-121H	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T, EM3201P, EM3206P, EM3207P, EM3202P, EM3203, EM3203T, EM3203A. ABS. Rated HB, 80°C, min. 1.5 mm thick.	cURus
			HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	For models EM3201, EM3201A, EM3206, EM3206T, EM3207, EM3202, GCF20E. PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus
1	5	Top Board	Various	Various	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. Stainless Steel. Min. 0.8 mm thick.	NR
1	6	Filter Handle	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	7	Coffee Spoon	Various	Various	Thermal plastic material. Rated HB at least.	cURus
1, 14	8	Water tank cover	Various	Various	ABS. Rated HB, 80°C at least, min. 1.5 mm thick.	cURus
1	9	Coffee Flow	Various	Various	PP. Rated HB, 115°C at least, min. 1.5 mm thick.	cURus
1	10	Handle back cover	Various	Various	ABS. Rated HB, 80°C at least, min. 1.5 mm thick.	cURus
1	11	Handle front cover	Various	Various	PP. Rated HB, 115°C at least, min. 1.5 mm thick.	cURus
2	12	Marking Label (not shown)	Various	Various	For PP material. Rated 80°C at least. Silk printed or molded method is also acceptable.	cURus
2, 13	13	Bottom cover	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus
2	14	Foot	Various	Various	Silicone Rubber. Rated HB, 105 °C, min. 1.0 mm thick.	cURus
2	15	Power Switch Button	CHI MEI CORPORATION (E56070)	PA-757(+)	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. ABS. Rated HB, 80°C, min. 1.5 mm thick.	cURus
3, 14	16	Water Tank	Various	Various	SAN. Rated HB, 50°C at least, min. 1.5 mm thick.	cURus
3	17	Water Tank Valve Rod	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus
3	18	Water Tank Seal Ring	MIDGOLD SILICONE CO.,LTD (E312893)	GF-151	Silicone Rubber. Rated HB, 105 °C, min. 1.0 mm thick.	cURus
3	19	Water Tank Valve Seat	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus
3	20	Water Tank Filter	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus
3	21	Water Tank Valve Seal	MIDGOLD SILICONE CO.,LTD (E312893)	GF-151	Silicone Rubber. Rated HB, 105 °C, min. 1.0 mm thick.	cURus
4, 14	22	Drip Tray	Various	Various	Thermal plastic material. Rated HB at least.	cURus
4, 14	23	Drip Tray Cover	Various	Various	Stainless Steel. Min. 0.8 mm thick.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4, 14	24	Float	Various	Various	Thermal plastic material. Rated HB at least.	cURus
4	25	Steam knob	CHI MEI CORPORATION (E56070)	PA-757(+)	ABS. Rated HB, 80°C, min. 1.5 mm thick.	cURus
5, 15	26	Cord Clamp	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	PP. Rated V-2, 130°C, min. 1.5 mm thick.	cURus
5	27	Power Switch Bracket	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. PP. Rated V-2, HWI=2, HAI=0, CTI=0, 130°C, min. 1.5 mm thick.	cURus
5	28	Cable Tie	Various	Various	Rated 125°C at least.	cURus
5	29	Power switch	SHUNDE DISTRICT OF FOSHAN CITY YIMINGDA ELECTRICAL COMPANY LTD (E508019)	BPT series	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. Rated 125/250V, 16A, 105°C, Endurance 6000 cycles.	cURus
6	30	NTC Assembly (not shown)	Various	Various	It consisted of items 30a thru 30c:	NR
6	30a	NTC (not shown)	ANHUI EAGLE ELECTRON CO LTD (E502983)	MF58-104X4200YA	Resistance 100k ohm at 25°C. T _{moa} = 200°C, Class C2.	cURus
6	30b	NTC Resin	DURESCO GMBH (E66640)	NU 514 K	Epoxy Molding Resin. Rated V-0, 150°C, min. 1.5 mm thick.	cURus
			DURESCO GMBH (E66640)	NU 514 L	Epoxy Molding Resin. Rated V-0, 150°C, min. 1.5 mm thick.	cURus
6	30c	NTC Housing (not shown)	Various	Various	Cu.	NR
11	31	Connector	ZHEJIANG HONGXING ELECTRICAL CO LTD (E228500)	HX3960X-YYY	Consisting of Housing and Wafer. Rated 250V, 5A, 85°C.	cURus
6	32	Thermal Fuse (not shown)	SHANGHAI XINYUAN ELECTRONICS CO LTD (E362696)	RY192	Two provided. Rated 125/250V, 15/10A, Tf=192°C.	cURus
6	33	Silicon coated fiber glass tube	Various	Various	Rated 600V, 200°C at least, VW-1. Used for sleeving Thermal Fuse.	cURus
6	34	Funnel bracket	KINGFA SCI & TECH CO LTD (E171666)	PA6-G30(f1)	PA6. Rated HB, 100°C, min.1.6 mm thick.	cURus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
6	35	Heater	Zhaoqing Heda Electric Appliance Technology Co., LTD	HD-120V/1300W	Rated 120 V, 60 Hz, 1300W, sheath heater tube cast in the aluminum body. Consists of nichrome resistance wire, type OCr25AL5, cold resistance 10.65~11.75 ohm, embedded in magnesium oxide insulation, encased by steel sheath, each end sealed by silicone rubber. Provided with cold pin terminals at both ends. Refer to Illustration 5 for details.	NR
6	36	Steam switch press	KINGFA SCI & TECH CO LTD (E171666)	PA66-RPG25	PA66. Rated V-0, 115°C, min. 0.8 mm thick.	cURus
6	37	2-way valve body	KINGFA SCI & TECH CO LTD (E171666)	PA66-G(f)	PA66. Rated HB, 110°C, min.1.6 mm thick.	cURus
6	38	3-way valve body 1	KINGFA SCI & TECH CO LTD (E171666)	PA66-G(f)	PA66. Rated HB, 110°C, min.1.6 mm thick.	cURus
7	39	Heat Shrinkage Tube	Various	Various	Rated 600V, 125°C at least, VW-1.	cURus
7	40	Micro switch	Yueqing Niufulai Electronics Co Ltd (E254083)	KW2-4	Rated 125V, 5A, 125°C, Endurance 50K Cycles.	cURus
7	41	Steam switch bracket	KINGFA SCI & TECH CO LTD (E171666)	PA66-RPG25	PA66. Rated V-0, 115°C, min. 0.8 mm thick.	cURus
7	42	Steam switch connection	KINGFA SCI & TECH CO LTD (E171666)	PA66-RPG25	PA66. Rated V-0, 115°C, min. 0.8 mm thick.	cURus
7	43	Steam pipe seat	KOREA ENGINEERING PLASTICS CO LTD (E120354)	F20-03	POM. Rated HB, 95°C, min. 0.75 mm thick.	cURus
7	44	Steam pipe handle	Various	Various	Silicone Rubber. Rated HB, 105 °C, min. 1.0 mm thick.	cURus
7	45	Steam pipe	Various	Various	Aluminum. Min. 0.8 mm thick.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
8	46	Internal Wire (not shown)	Various	3122	Rated 300V, 200°C, min. 18AWG. Used as Thermal Fuse's lead wire, Heating element's lead wire and water pump's lead wire. And used for connecting between power switch and power pcb.	cURus
			Various	3122	For models EM3203 and EM3203T. Rated 300V, 200°C, min. 22AWG. Used as Toggle Switch 1, Toggle Switch 2's lead wire and lamp's lead wire.	cURus
			Various	1332	Rated 300V, 200°C, min. 24AWG. Used as NTC's lead wire and Micro switch's lead wire.	cURus
			Various	1007	Rated 300V, 80°C, min. 24AWG. Used as optional Micro switch's lead wire.	cURus
			Various	2468	Rated 300V, 80°C, min. 26AWG. Used as data wire. For connecting between control pcb and power pcb.	cURus
8, 12, 46	47	Display Window	LG CHEM LTD (E67171)	80HF	For models EM3101, GCF20D, EM3202, GCF20E, EM3202P. SAN. Rated HB, 50°C, min. 1.5 mm thick.	cURus
			CHI MEI CORPORATION (E56070)	PA-758(+)	For models EM3207, EM3207P. ABS. Rated HB, 60°C, min. 1.5 mm thick.	cURus
8	48	Inner Bracket	KINGFA SCI & TECH CO LTD (E171666)	PA66-RPG25	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T. PA66. Rated V-0, 115°C, min. 0.8 mm thick.	cURus
8	49	Water Silicon Tube	MIDGOLD SILICONE CO.,LTD (E312893)	GF-151	Silicone Rubber. Rated HB, 105 °C, min. 1.0 mm thick.	cURus
8	50	Water TFL Tube	HUIZHOU DONGJU FLUO TECH PLASTIC CO LTD (E478618)	TFL	Not heat shrinkable PTFE tubing. Rated. Rated 150V, 200°C.	cURus
9, 16, 23, 28	51	Control PCB Bracket	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T, EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P. PP. Rated V-2, 130°C, min. 1.5 mm thick.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
9	52	Water Pump	CEME S.p.A. a Socio Unico (E151204)	EP4FM	Rated 120V, 60Hz, 46W, Class F.	cURus
9	53	Safety/Priming valve	Various	Various	Safety: 1.400-1.9 Mpa, Self-priming: 0.1-0.3 Mpa.	NR
9	54	Pump Silicon Bracket	MIDGOLD SILICONE CO.,LTD (E312893)	GF-151	Two provided. Silicone Rubber. Rated HB, 105°C, min. 1.0 mm thick.	cURus
10, 11	55	PCBs	Various	Various	Rated V-0, 130°C, min.1.6 mm thick, complied with the requirement of UL796. Consisted of control pcb and power pcb for models EM3101, GCF20D, EM3102, PE3680U, EM3102T, EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. Consisted only power pcb for models EM3203, EM3203T.	cURus
11	56	Quick Connector (not shown)	Various	Various	187, type connector with locker, met UL310. For all models, provided for the connecting of Internal Wire to Power PCB (Heat_N). For models EM3101, GCF20D, EM3102, PE3680U, EM3102T, provided for the connecting of Internal Wire to power switch and provided for the connecting of power supply cord to power switch and Power PCB (ACN).	cURus
			Various	Various	250, type connector with locker, met UL310, provided for the connecting of Internal Wire to heating element, pump or power PCB(Heat_L & ACL).	cURus
8	57	Quick Connector Sleeving (Optional)	Various	Various	PVC. Rated 150V, 110°C at least. Used to enclose the Quick Connector.	cURus
11	58	Varistor	Various	Various	Rated 270V, 125°C at least.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
11	59	X2 Capacitor	TENTA ELECTRIC INDUSTRIAL CO LTD (E222911)	MEX	X2. Rated 275V, 0.1μF, 100°C.	cURus
			GUANGDONG FENGMING ELECTRONIC TECH CO LTD (E345487)	MKP-X2	X2. Rated 275V, 0.1μF, 105°C.	cURus
			Various	Various	X2. Rated 275V, 0.1μF, 100°C at least.	cURus
11	60	Triac	Jiang Su JiLai Microelectronics CO. , Ltd	BTB24800B	For models EM3101, GCF20D, EM3102, PE3680U, EM3102T, EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. Rated $V_{DRM} = 800V$, $I_{T(RMS)} = 25A$. (TR2)	NR
12	61	Base Side Decorative Part	Various	Various	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. Stainless Steel. Min. 0.3 mm thick.	NR
12	62	Base Top Decorative Part	Various	Various	For models EM3201, EM3201A, EM3202, GCF20E, EM3206, EM3206T, EM3207. Stainless Steel. Min. 0.3 mm thick.	NR
12	63	Main Housing Decorative Part	Various	Various	For models EM3201, EM3201A, EM3202, GCF20E, EM3206, EM3206T, EM3207. Stainless Steel. Min. 0.3 mm thick.	NR
12	64	The Front Panel Decorative Part 1	Various	Various	For models EM3202, GCF20E, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P. Stainless Steel. Min. 0.3 mm thick.	NR
12	65	Side Decorative Part	Various	Various	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P. Stainless Steel. Min. 0.3 mm thick. Consisted of left side decorative part and right side decorative part.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
14	66	Water Tank Handle	Various	Various	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PP. Rated HB, 115°C at least, min. 1.5 mm thick.	cURus
16, 20, 34	67	Front Panel	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	HJ730+	For models EM3202, GCF20E, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PP. Rated HB, 115°C, min. 1.5 mm thick.	cURus
			CHI MEI CORPORATION (E56070)	PA-757(+)	For models EM3201, EM3201P, EM3201A. ABS. Rated HB, 80°C, min. 1.5 mm thick.	cURus
			HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3203, EM3203T, EM3203A. PP. Rated V-2, 130 °C, min. 1.5 mm thick.	cURus
16	68	Top Frame	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PP. Rated V-2, 130°C, min. 1.5 mm thick.	cURus
			CHI MEI CORPORATION (E56070)	PA-765(+)	For models EM3203, EM3203T, EM3203A. ABS. Rated V-0, 80°C, min. 1.5 mm thick.	cURus
16, 25	69	Buttons	Covestro Deutschland AG [PC Resins] (E41613)	2858 + (z)(f1)	For models EM3102, PE3680U, EM3102T, EM3202, GCF20E, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PC. Rated V-2, 115°C, min. 0.75 mm thick.	cURus
19	70	Pump Plastic Bracket	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PP. Rated V-2, 130°C, min. 1.5 mm thick.	cURus
20	71	Handle	Various	Various	For models EM3201, EM3201P, Em3201A, EM3203, EM3203T, EM3203A. Two provided. Stainless steel.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
20	72	Front Cover	CHI MEI CORPORATION (E56070)	PA-758(+)	For models EM3201, EM3201P, EM3201A. SAN. Rated HB, 60°C, min. 1.5 mm thick. Consisted of Front Left Cover and Front Right Cover.	cURus
23	73	3-way valve body ²	KINGFA SCI & TECH CO LTD (E171666)	PA66-G(f)	For models EM3102, PE3680U, EM3201, EM3201P, EM3203, EM3206, EM3206P. PA66. Rated HB, 110°C, min.1.6 mm thick.	cURus
25	74	Temperature Meter Assembly	Various	Various	For models EM3102T, EM3203T, EM3206T. Mainly consisted of items 74a and 74b.	NR
25	74a	Temperature Meter Window (not shown)	CHI MEI CORPORATION (E56070)	PC-110(+)	PC. Rated V-2, 105°C, min. 1.5 mm thick.	cURus
25	74b	Temperature Meter Inner housing (not shown)	CHI MEI CORPORATION (E56070)	PC-110(+)	PC. Rated V-2, 105°C, min. 1.5 mm thick.	cURus
25	75	Pressure Meter Assembly	Various	Various	For models EM3102, PE3680U, EM3201, EM3201P, EM3203, EM3206, EM3206P. Mainly consisted of items 75a and 75b.	NR
25	75a	Pressure Meter Window (not shown)	CHI MEI CORPORATION (E56070)	PC-110(+)	PC. Rated V-2, 105°C, min. 1.5 mm thick.	cURus
25	75b	Pressure Meter Inner housing (not shown)	Various	Various	Steel. Min. 0.8 mm thick.	cURus
30	76	The Front Panel Decorative Part 2	Various	Various	For models EM3203, EM3203T, EM3203A. ABS. Rated HB, 80°C at least, min. 1.5 mm thick.	cURus
33	77	Power PCB Bracket	HANWHA TOTAL PETROCHEMICAL Co Ltd (E140331)	FB51(+)	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PP. Rated V-2, HWI=2, HAI=0, CTI=0, 130°C, min. 1.5 mm thick.	cURus
33	78	Closed End Connector	Various	Various	For EM3203 and EM3203T. Rated 100°C at least.	cURus
34	79	Toggle switch 1	Jiangmen Mielux Intelligent and Technology Co., Ltd.	BD-001	For EM3203, EM3203T. ON-OFF Switch. Rated 125/250Vac, 15A, 50~60Hz.	See 5.0

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
34	80	Toggle switch 2	Jiangmen Mielux Intelligent and Technology Co., Ltd.	BD-002	For EM3203, EM3203T. ON-OFF-ON Switch. Rated 125/250Vac, 15A, 50~60Hz.	See 5.0
35	81	Relay	SHENZHEN YUANZE ELECTRIC CO LTD (E341498)	Y3F-SS-105DM	For EM3203, EM3203T. Rated 125V, 15A, 85°C, Class A. Coil Voltage is 5V. Endurance 100000 Cycles.	cURus
36	82	Front Panel Film	ZHANGJIAGANG KANGDE XIN OPTRONICS MATERIAL CO., LTD (E466541)	BOPET	For models EM3203, EM3203T, EM3203A. PET. Rated VTM-2, 105°C, min.0.05mm thick.	cURus
36	83	Front Panel Film Adhesive (not shown)	ZHONGSHAN ZHANTU PRINTING CO LTD (MH47528)	ZT969-1	For models EM3203, EM3203T, EM3203A. Suitable for ABS material. Rated 80°C.	cURus
42	84	Heater Support (not shown)	KINGFA SCI & TECH CO LTD (E171666)	PA66-RPG25	For models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P. PA66. Rated V-0, 115°C, min. 0.8 mm thick.	cURus

NOTES:

- 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.
- 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.
- 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

CONTACTS

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
34	79	Toggle switch 1	Jiangmen Mielux Intelligent and Technology Co., Ltd.	BD-001

Electrical Rating: 125/250Vac, 15A, 50~60Hz.

Component Standard used: UL 61058-1:2017 Ed.5+R:30Jun2021 & CSA C22.2#61058-1:2017 Ed.5+U1

MATERIALS LIST (refer to illustration 6 for assembly drawing)

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Main Housing	CHANG CHUN PLASTICS CO LTD (E59481)	T375J(G5)(G6)	PMC material. Rated V-0, HWI=1, HAI=0, CTI=3, 150°C, min. 0.45 mm thick.
Sliding block	GUANGDONG WAYLAM ENGINEERING PLASTICS CO LTD (E257285)	PA-RG30515	Rated V-0, HWI=0, HAI=0, CTI=2, 100°C, min. 1.6 mm thick.
Hand Shank	Various	Various	H62 electroplate.
Spring	Various	Various	Carbon Steel.
Touch Spot	Various	Various	Two Provided. Silver material. Measured overall dimensions Φ3.0mm, 0.6 mm thick.
Bracket	Various	Various	H62/cooper-plating silver. Measured minimum thickness 0.8mm, 3.5mm width.
Coverplate	Various	Various	A3 electroplate.
Rivet	Various	Various	Two provided. Cooper-plating silver.
Terminals	Various	Various	Two provided. Cooper-plating silver. Each measured 0.8mm x 6.3mm.
Screw Thread	Various	Various	Zinc alloy electroplate.

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1	
Test Name	Test Parameters		
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor
	120V	11.25A	1
Dielectric Strength	Apply voltage Between	Test Voltage	Test Time
	Live parts of opposite polarity	1000V	60s
	Live parts and dead metal	1000V	60s

5.0 Critical Unlisted CEC Components				
CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
34	80	Toggle switch 2	Jiangmen Mielux Intelligent and Technology Co., Ltd.	BD-002
Electrical Rating: 125/250Vac, 15A, 50~60Hz.				
Component Standard used: UL 61058-1:2017 Ed.5+R:30Jun2021 & CSA C22.2#61058-1:2017 Ed.5+U1				
MATERIALS LIST (refer to illustration 6a for assembly drawing)				
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information	
Main Housing	CHANG CHUN PLASTICS CO LTD (E59481)	T375J(G5)(G6)	PMC material. Rated V-0, HWI=1, HAI=0, CTI=3, 150°C, min. 0.45 mm thick.	
Sliding block	GUANGDONG WAYLAM ENGINEERING PLASTICS CO LTD (E257285)	PA-RG30515	Rated V-0, HWI=0, HAI=0, CTI=2, 100°C, min. 1.6 mm thick.	
Hand Shank	Various	Various	H62 electroplate.	
Spring	Various	Various	Carbon Steel.	
Touch Spot	Various	Various	Two Provided. Silver material. Measured overall dimensions Φ 3.0mm, 0.6 mm thick.	
Bracket	Various	Various	H62/cooper-plating silver. Measured minimum thickness 0.8mm, 3.5mm width.	
Coverplate	Various	Various	A3 electroplate.	
Rivet	Various	Various	Three provided. Cooper-plating silver.	
Terminals	Various	Various	Three provided. Cooper-plating silver. Each measured 0.8mm x 6.3mm.	
Screw Thread	Various	Various	Zinc alloy electroplate.	
VERIFICATION PROCESS				
Frequency: Annual		Test Site: CEC		Number of samples to test: 1
Test Name		Test Parameters		
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	120V	11.25A	1	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		1000V	60s
	Live parts and dead metal		1000V	60s

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. **Spacing** - In primary circuits the following spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and between bare live part and other non-current-carrying conductive parts.

	Clearance	Creepage distances
Basic insulation	1.6 mm	2.4 mm
Functional insulation	1.6 mm	2.2 mm

Minimum 3.1 mm spacing between current-carrying parts and conductive enclosure.

2. **Mechanical Assembly** - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.

3. **Corrosion Protection** - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.

4. **Accessibility of Live Parts** - All uninsulated live parts in primary circuitry are housed within a metal and non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.

5. **Polarized Connection** - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.

6. **Internal Wiring** - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets.

7. **Schematics** - Refer to Illustration 3, 3a thru 3u for schematics requiring verification during Field Representative Inspection Audits.

8. **Markings** - The product is marked on a labeling system as described in item no.12 of section 4.0 with the following:
 - applicant's name or brand name
 - model number
 - electrical ratings (volts, watts & frequency)
 - cautionary marking shall be in letters not less than 2.4 mm in height
 - refer to Illustration 1, 1a, 1b for layouts.

9. **Cautionary Markings** - The following are required in letters not less than 3/32 inch (2.4 mm) high:
 - refer to Illustration 1, 1a, 1b for layouts.

6.0 Critical Features

10. Instruction Manual - Instructions for installation and use of this product are provided by the manufacturer as required by the standard. Upper case and lower case letters shall not be less than 2.11 mm and 1.6 mm in height respectively. The phrases "IMPORTANT SAFEGUARDS" and "SAVE THESE INSTRUCTIONS" shall be in letters not less than 4.8 mm in height. Refer to Illustration 2, 2a for details.

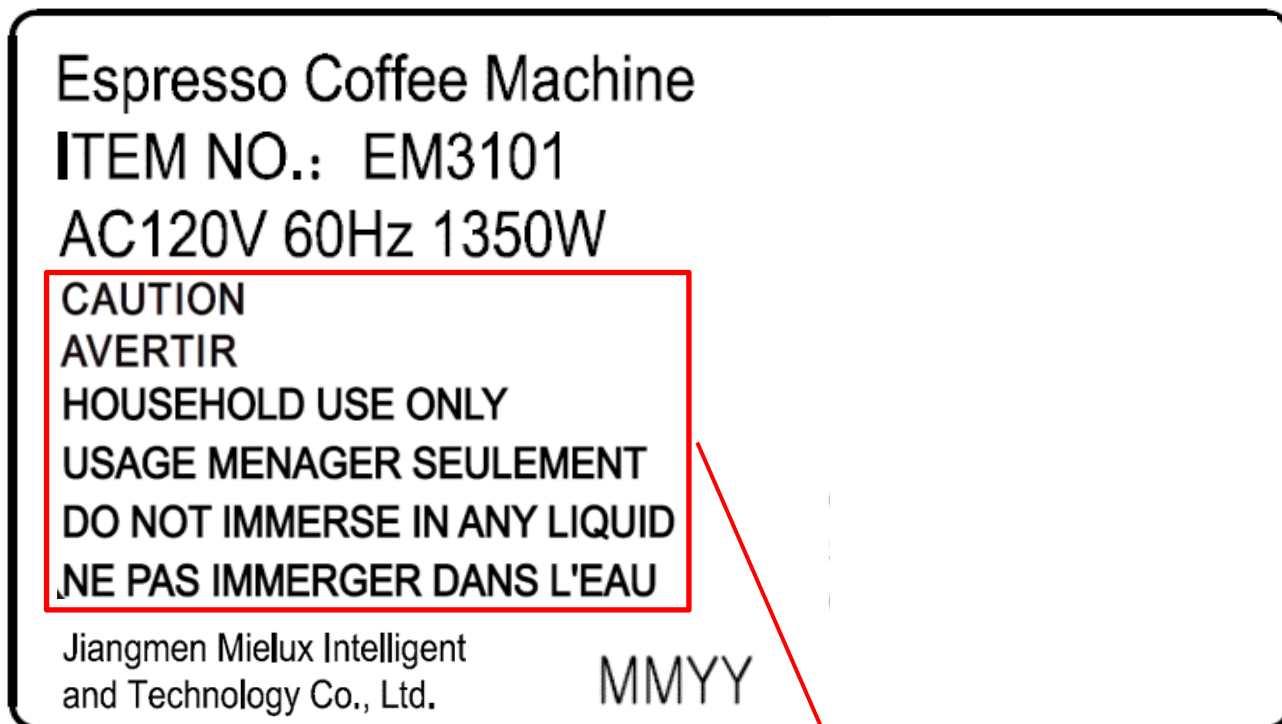
11. Carton Marking - The following are required:

- The "HOUSEHOLD USE ONLY" or "HOUSEHOLD TYPE", and the like, the marking must be located on at least one outside surface.
- Appear in lettering not less than the height as specified,

The smallest dimension of the carton panel	Minimum height of lettering
0~6 inch (0~152 mm)	1/8 inch (3.2 mm)
6~10 inch (152~254 mm)	3/16 inch(4.8 mm)
more than 10 inch (>254 mm)	1/4 inch (6.4 mm)

7.0 Illustrations

Illustration 1 - Markings and Cautionary Markings



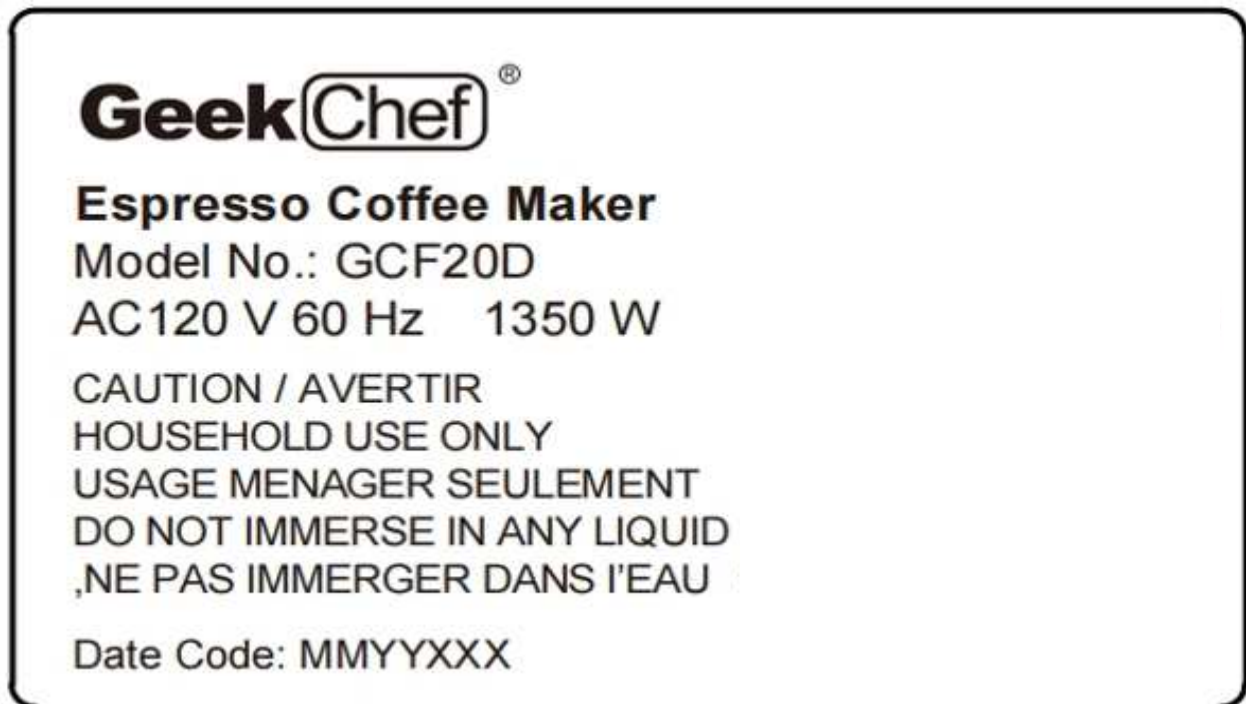
Cautionary Marking

Notes:

1. Date Code "MMYY", "MM" represents the month and "YY" represents the year of Manufacture.
2. "CAUTION", "AVERTIR", "HOUSEHOLD USE ONLY", "USAGE MENAGER SEULEMENT", "DO NOT IMMERSE IN ANY LIQUID", "NE PAS IMMERGER DANS L'EAU" shall be not less than 2.4 mm in height.
3. Optional for models EM3102, EM3102T, EM3201, EM3201P, EM3201A, EM3202, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P.
4. The brand name "Mielux" will be silk printed or laser maked on the product body or shown in the marking label.

7.0 Illustrations

Illustration 1a - Markings and Cautionary Markings

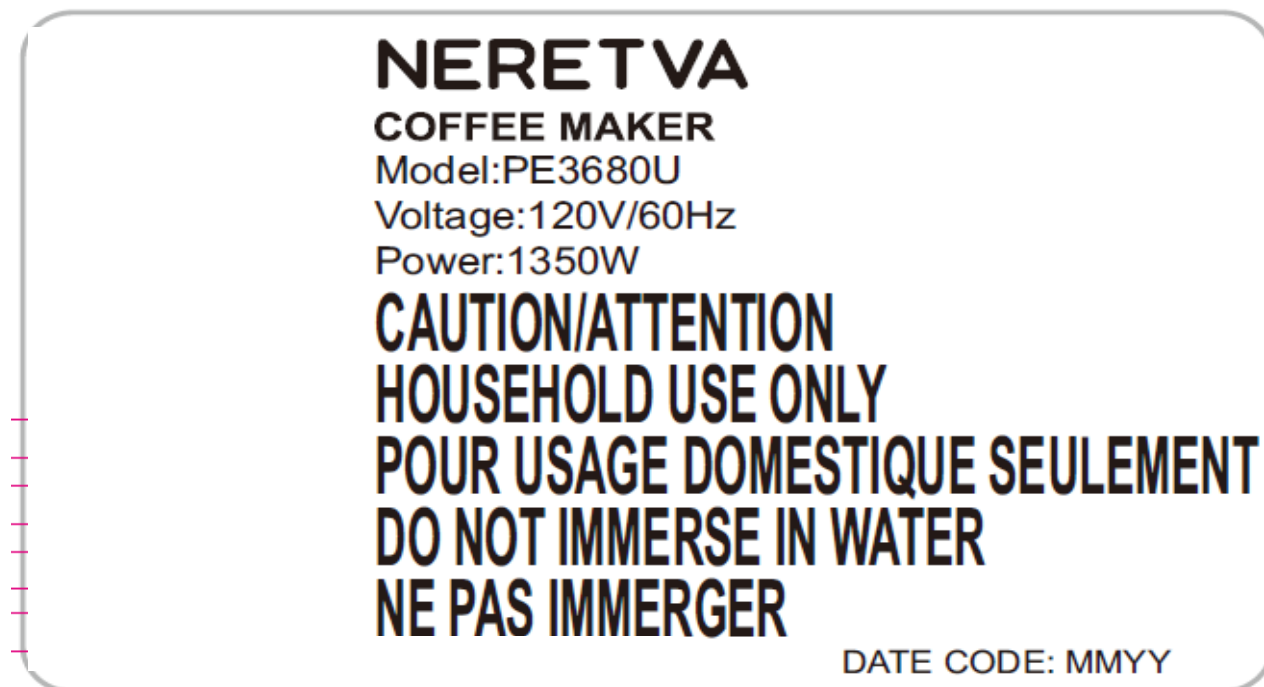


Notes:

1. Date Code "MMYY", "MM" represents the month and "YY" represents the year of Manufacture.
2. "CAUTION", "AVERTIR", "HOUSEHOLD USE ONLY", "USAGE MENAGER SEULEMENT", "DO NOT IMMERSE IN ANY LIQUID", "NE PAS IMMERGER DANS L'EAU" shall be not less than 2.4 mm in height.
3. Optional model: GCF20E.

7.0 Illustrations

Illustration 1b - Markings and Cautionary Markings



Notes:

1. Date Code "MMYY", "MM" represents the month and "YY" represents the year of Manufacture.
2. "CAUTION", "ATTENTION", "HOUSEHOLD USE ONLY", "POUR USAGE DOMESTIQUE SEULEMENT", "DO NOT IMMERSE IN WATER", "NE PAS IMMERGER" shall be not less than 2.4 mm in height.

7.0 Illustrations

Illustration 2 - Instruction Manual

IMPORTANT SAFEGUARDS

Before using machine always carefully read and comply with all these instructions. We cannot accept any responsibility for the consequences of improper use.

1. Warning: potential injury may cause from misuse of appliance
2. The heating element surface is subject to residual heat after use.
3. Cleaning and user maintenance shall not be made by children without supervision. **Close supervision is necessary when any appliance is used by or near children.**
4. This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years.
5. Appliances can be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
6. Children shall not play with the appliance.
7. Before using checks that the voltage of wall outlet corresponds to coffee maker rating plate:
9. **Do not place the coffee maker on or near a hot gas or electric burner, or in a heated oven.**
10. Remove plug from wall outlet before cleaning and when not in use. Allow appliance to cool down completely before taking off, attaching components or before cleaning.
11. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions, or has been damaged in any manner. Return appliance to the nearest authorized service facility for

7.0 Illustrations

Illustration 2a - Instruction Manual

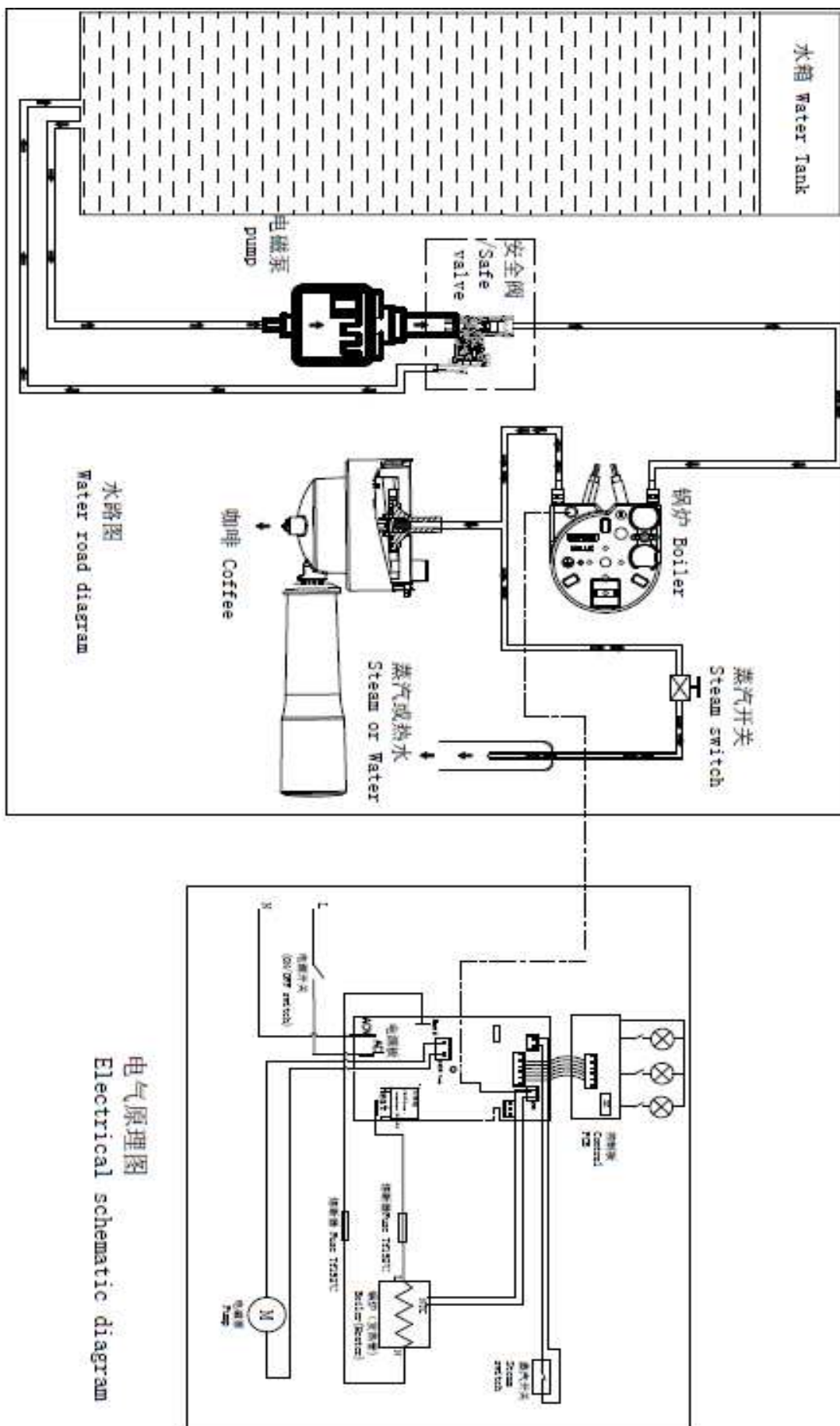
examination, repair or adjustment.

12. The use of accessory attachment not recommended by the appliance manufacturer may result in fire, electric shock, or injury to persons.
13. Place appliance on flat surface or table, do not hang its power cord over the edge of table or counter;
14. Be careful to ensure that the power cable does not become trapped and does not rub against sharp edges.
15. Ensure that the power cord does not touch hot surface of appliance;
16. Do not touch any hot parts. Use the handle of the filter holder or steam pipe;
17. To protect against fire, electric shock and injury to persons, do not immerse **appliance, power cord or plugs** into water or any other liquids;
18. Do not use outdoors, It must be protected against freezing conditions;
19. Do not fill more than 1.4L to upper MAX mark, when pure water in water tank;
20. Once the fault, defect or machine drop caused by suspicious defect, unplug the power plug immediately, do not operate on the problem machine;
21. Save these instructions booklet for future reference;
22. Do not immerse the machine into water.
23. **This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to modify the plug in any way.**
24. **To disconnect, turn any control to "off", then remove plug from wall outlet.**
25. **Do not use appliance for other than intended use. For household use only.**
26. **Scalding may occur if the lid is removed during the brewing cycles.**
27. **WARNING: To avoid the risk of injury, do not open the brew chamber during the brew process.**

SAVE THESE INSTRUCTIONS

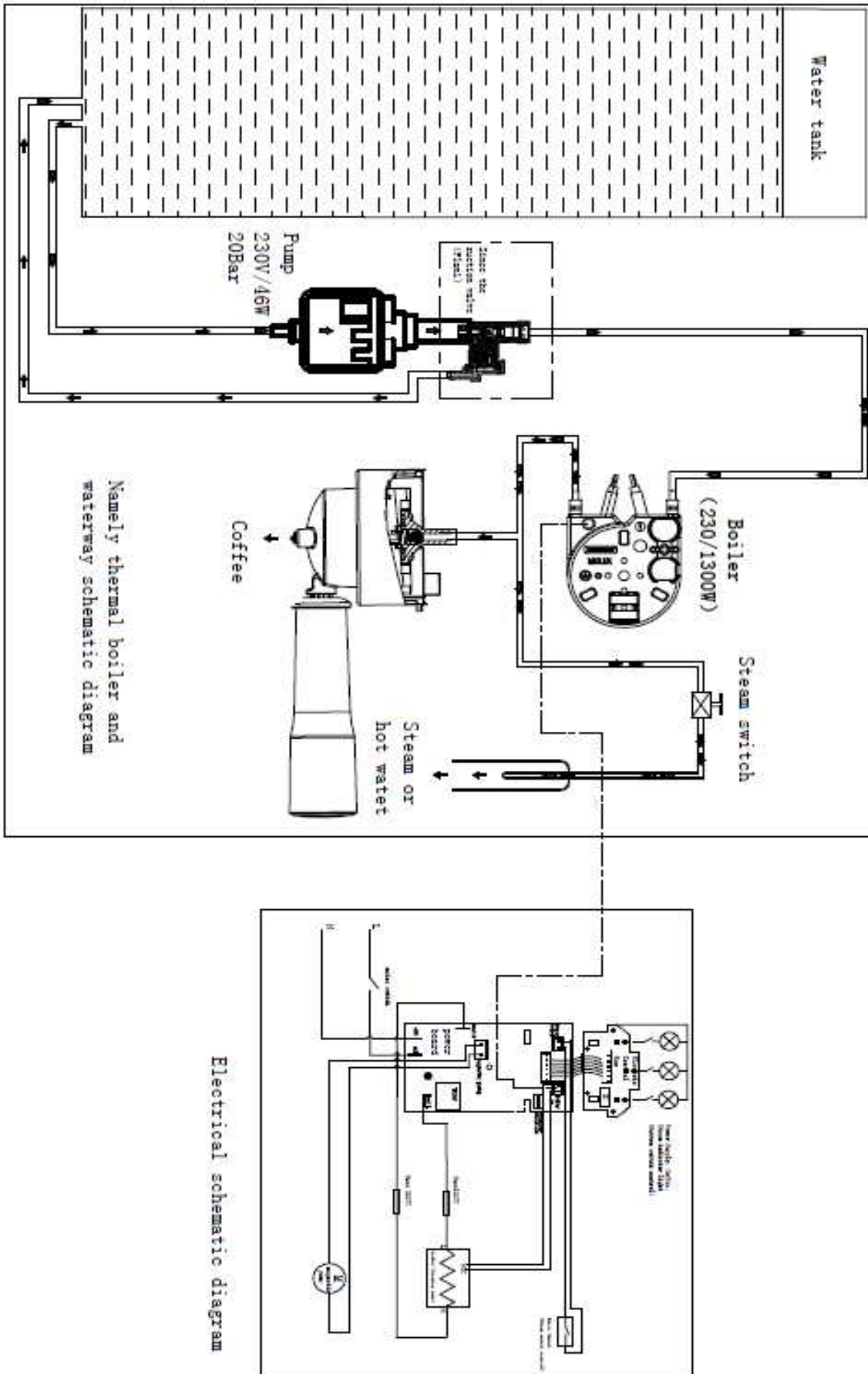
7.0 Illustrations

Illustration 3 - Water road diagram and Electrical schematic diagram for model EM3101



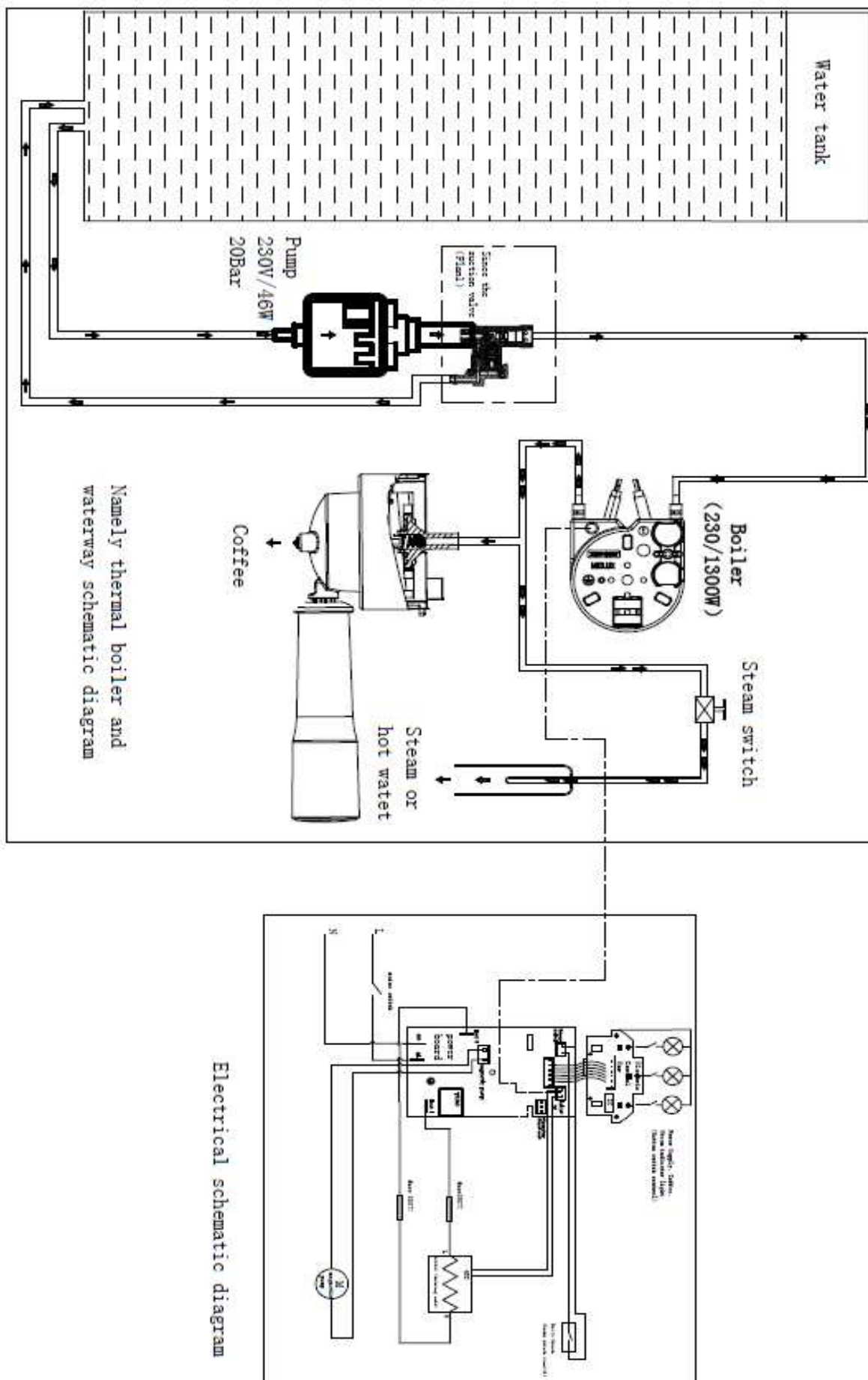
7.0 Illustrations

Illustration 3a - Water road diagram and Electrical schematic diagram for model EM3102



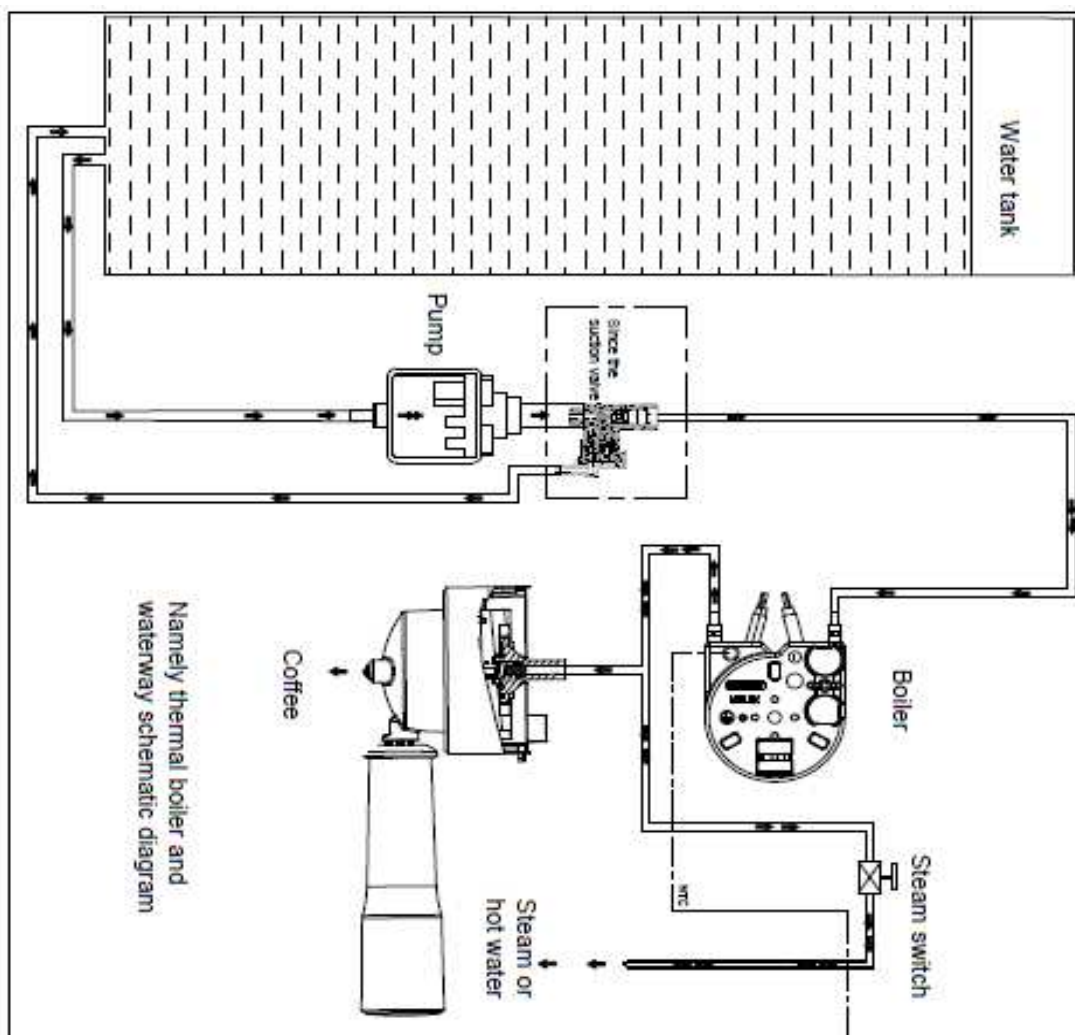
7.0 Illustrations

Illustration 3b - Water road diagram and Electrical schematic diagram for model EM3102T

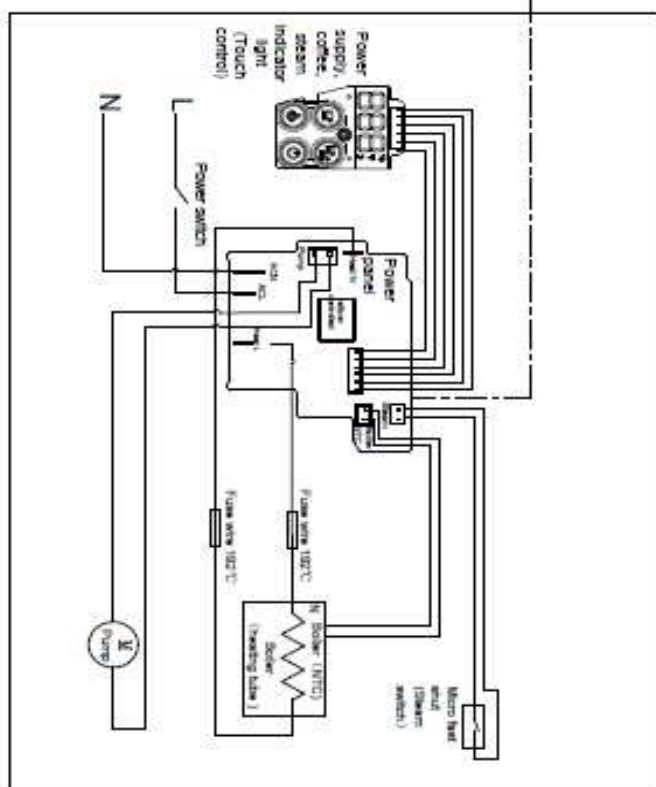


7.0 Illustrations

Illustration 3c - Water road diagram and Electrical schematic diagram for model EM3201, EM3201P



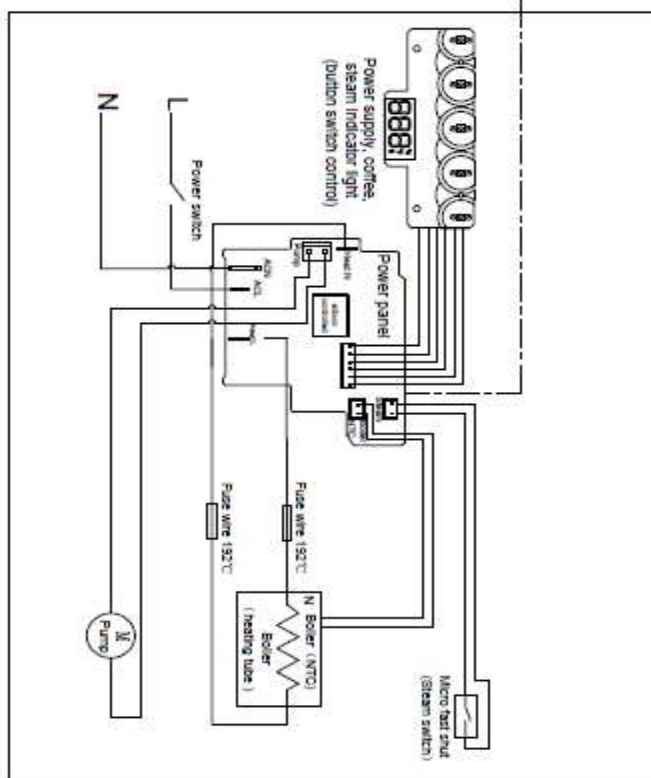
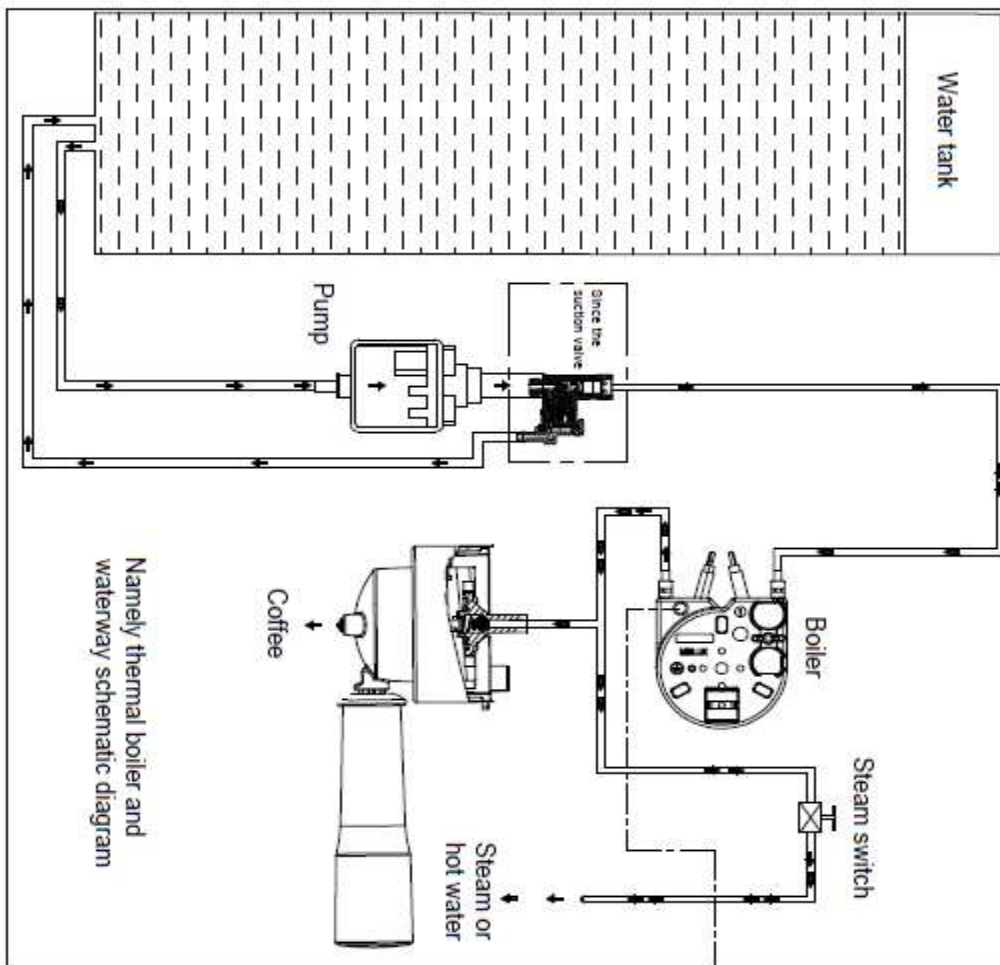
Namely thermal boiler and
 waterway schematic diagram



Electrical schematic diagram

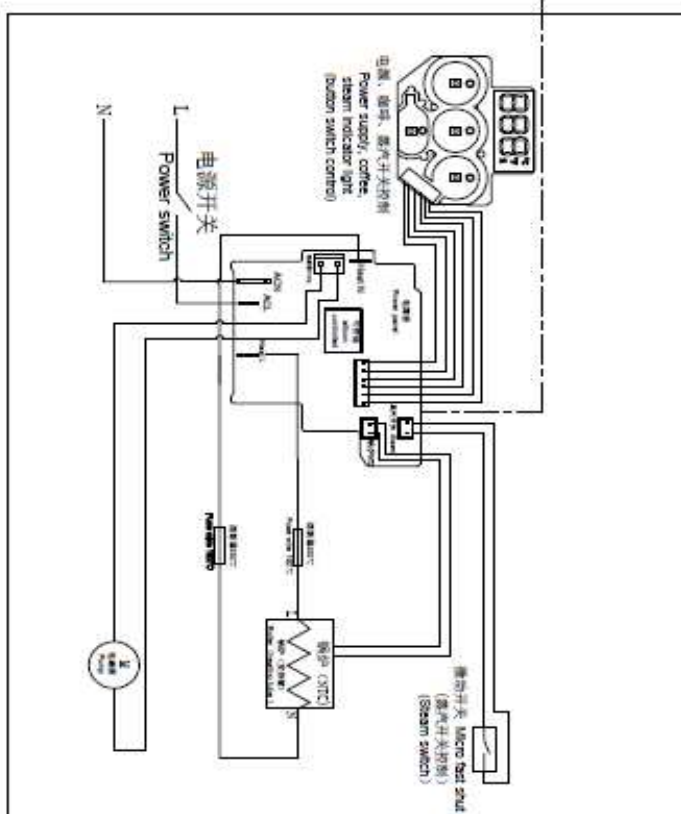
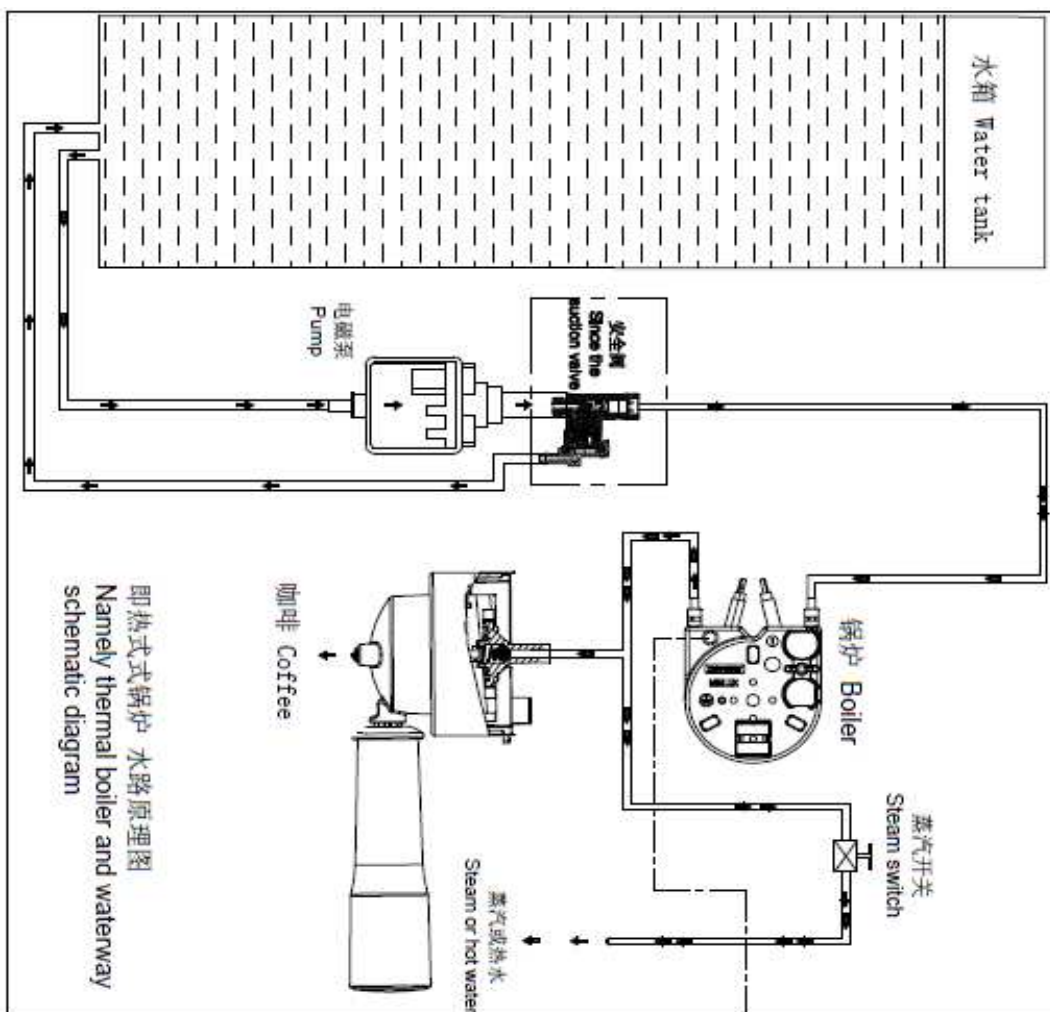
7.0 Illustrations

Illustration 3d - Water road diagram and Electrical schematic diagram for model EM3202, GCF20E, EM3202P



7.0 Illustrations

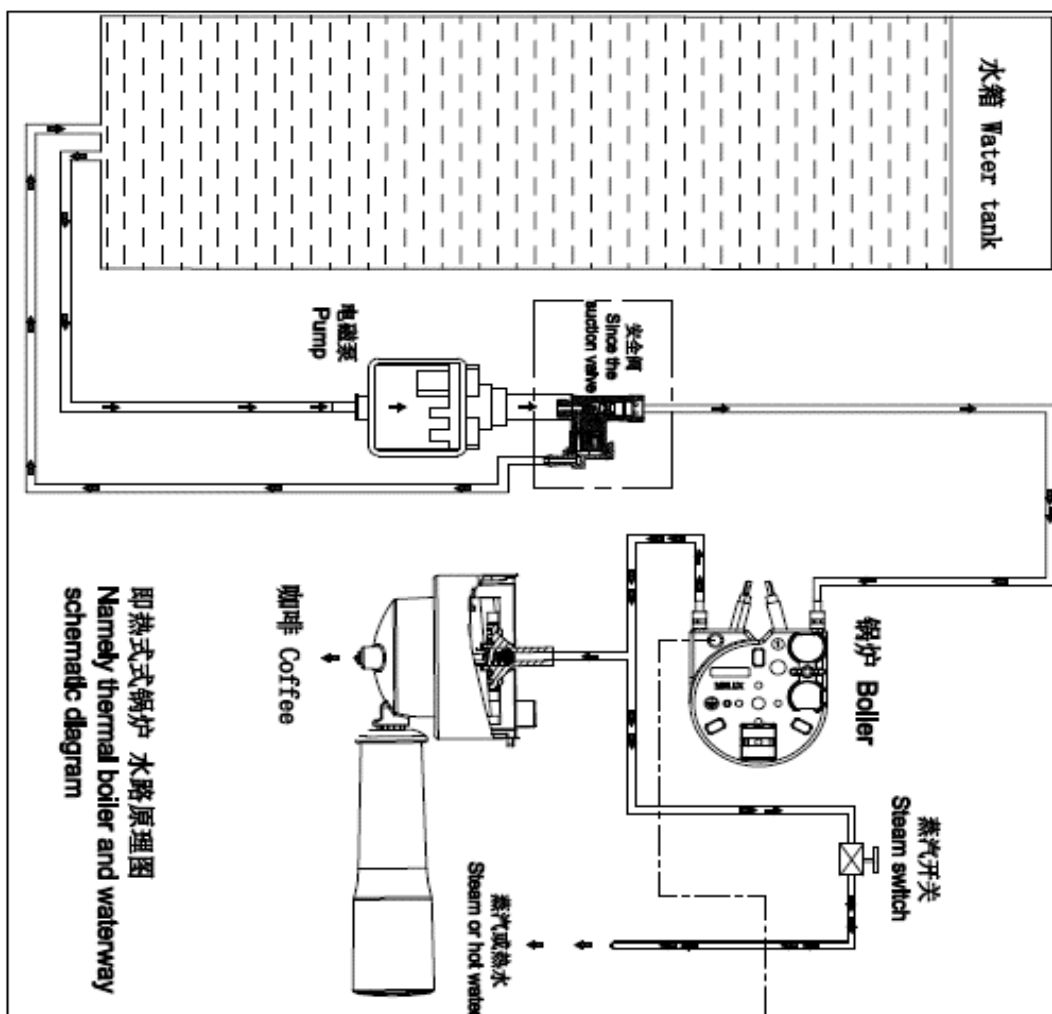
Illustration 3e - Water road diagram and Electrical schematic diagram for model EM3203A



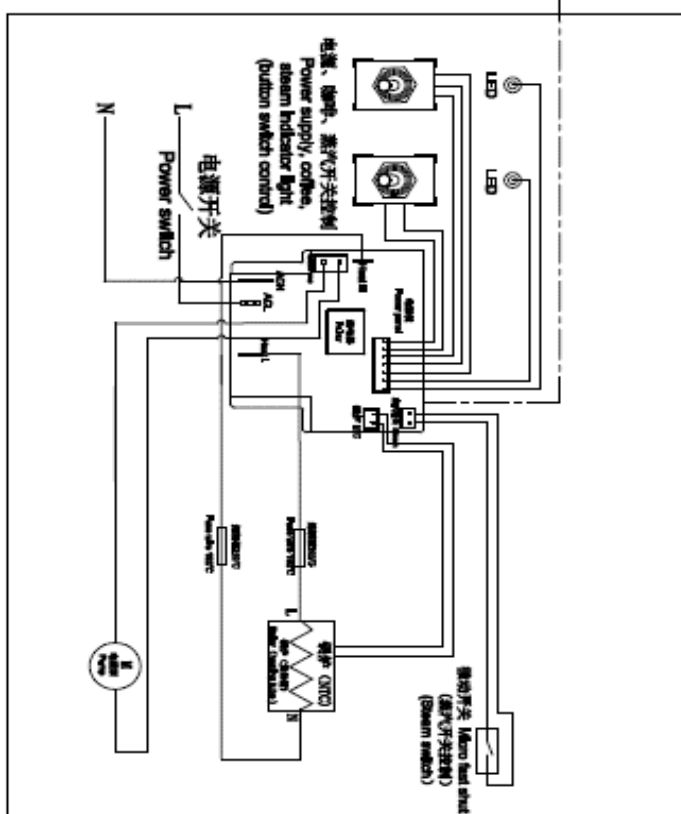
电气原理图 Electrical schematic diagram

7.0 Illustrations

Illustration 3f - Water road diagram and Electrical schematic diagram for model EM3203



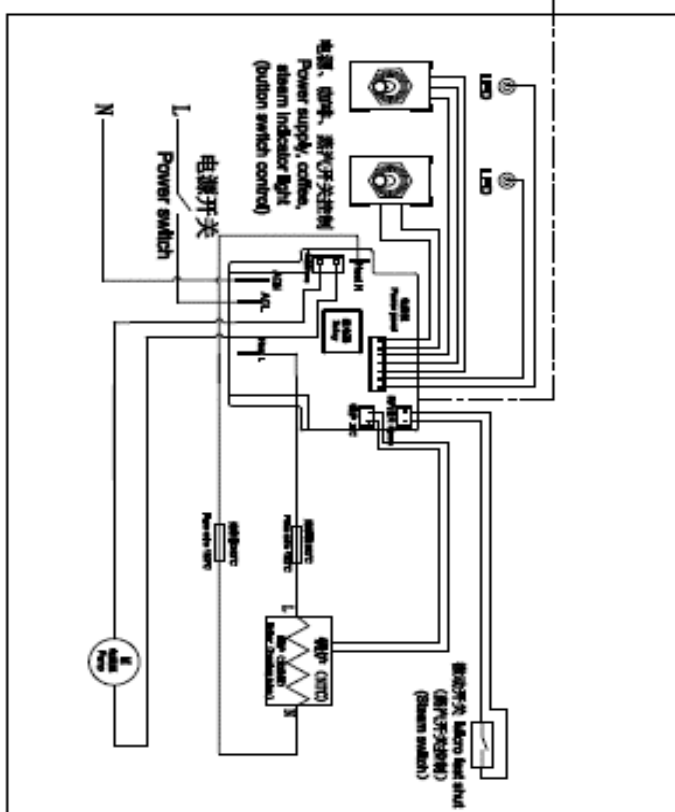
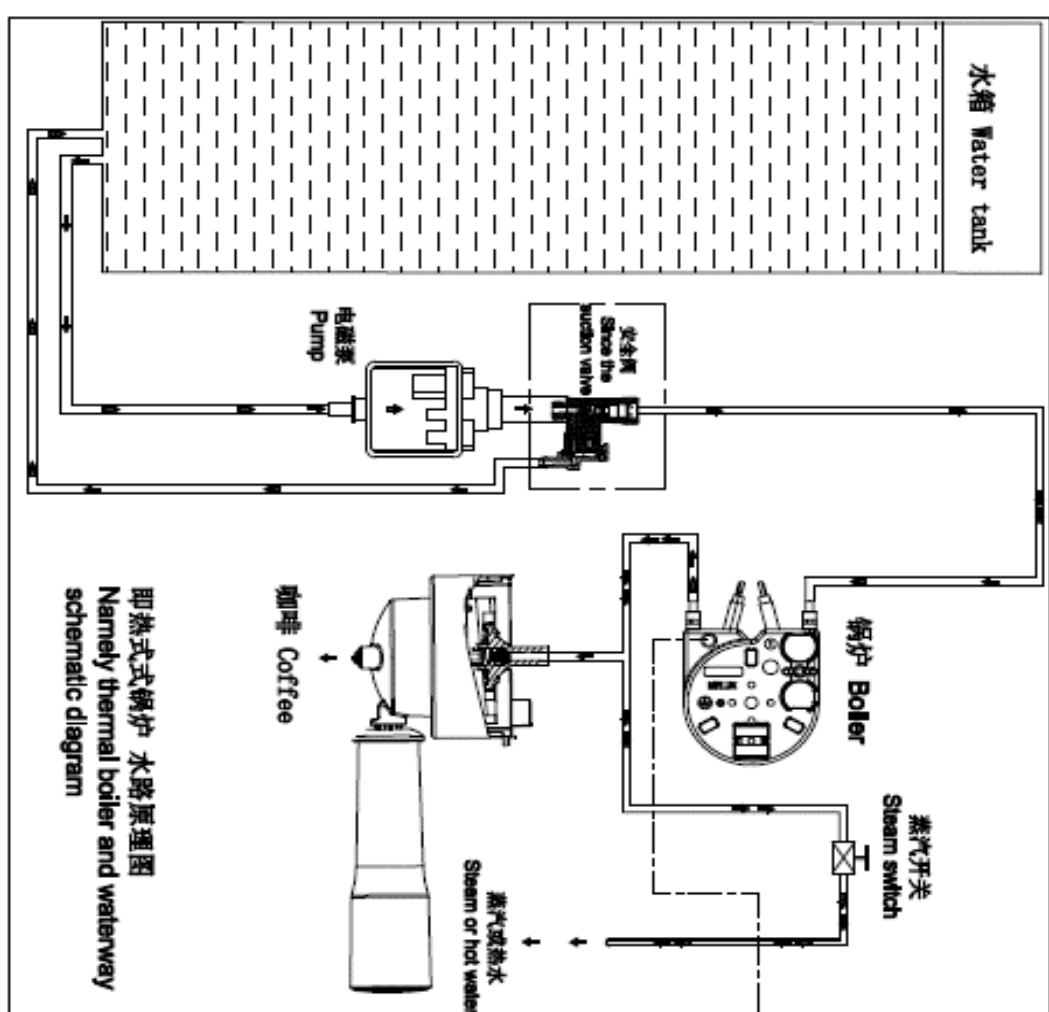
即热式锅炉 水路原理图
 Mainly thermal boiler and waterway schematic diagram



电气原理图 Electrical schematic diagram

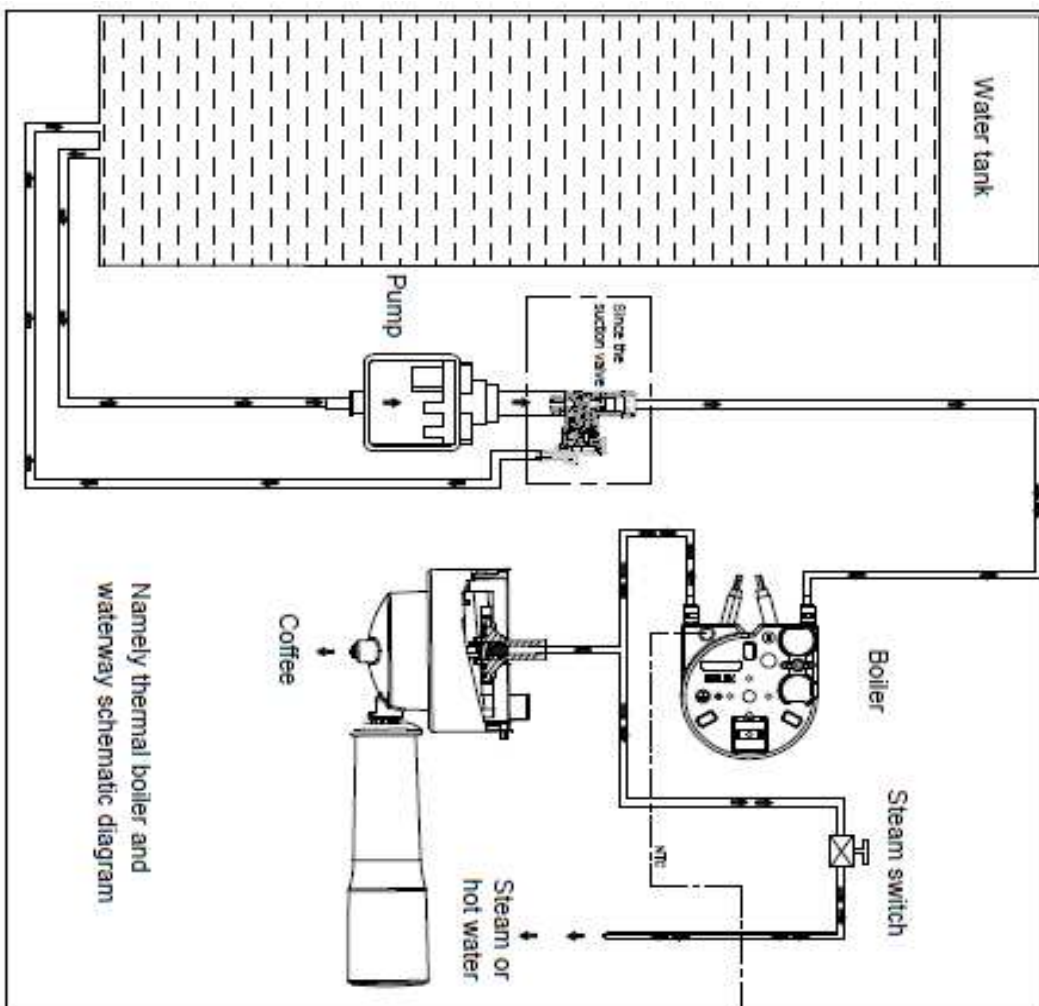
7.0 Illustrations

Illustration 3g - Water road diagram and Electrical schematic diagram for model EM3203T

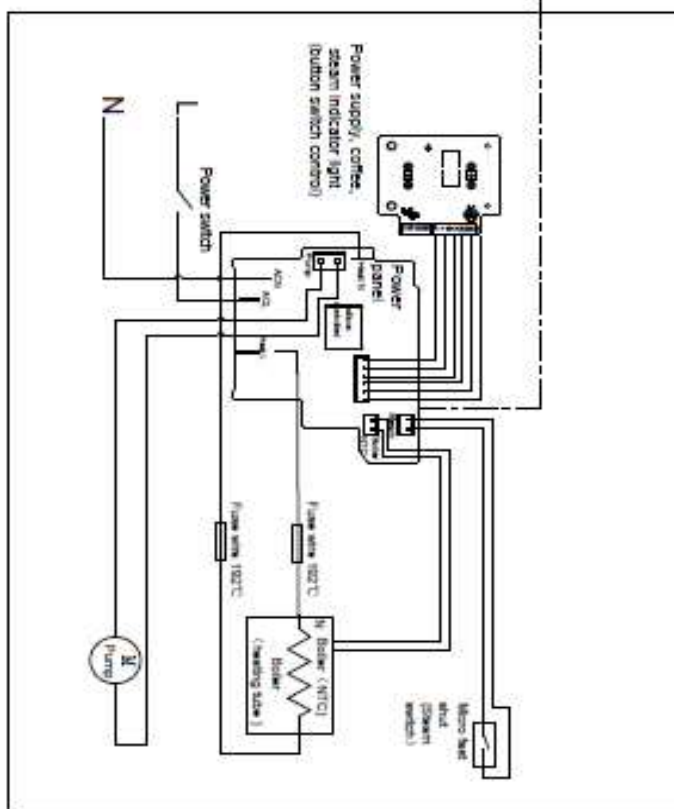


7.0 Illustrations

Illustration 3h - Water road diagram and Electrical schematic diagram for model EM3206, EM3206P



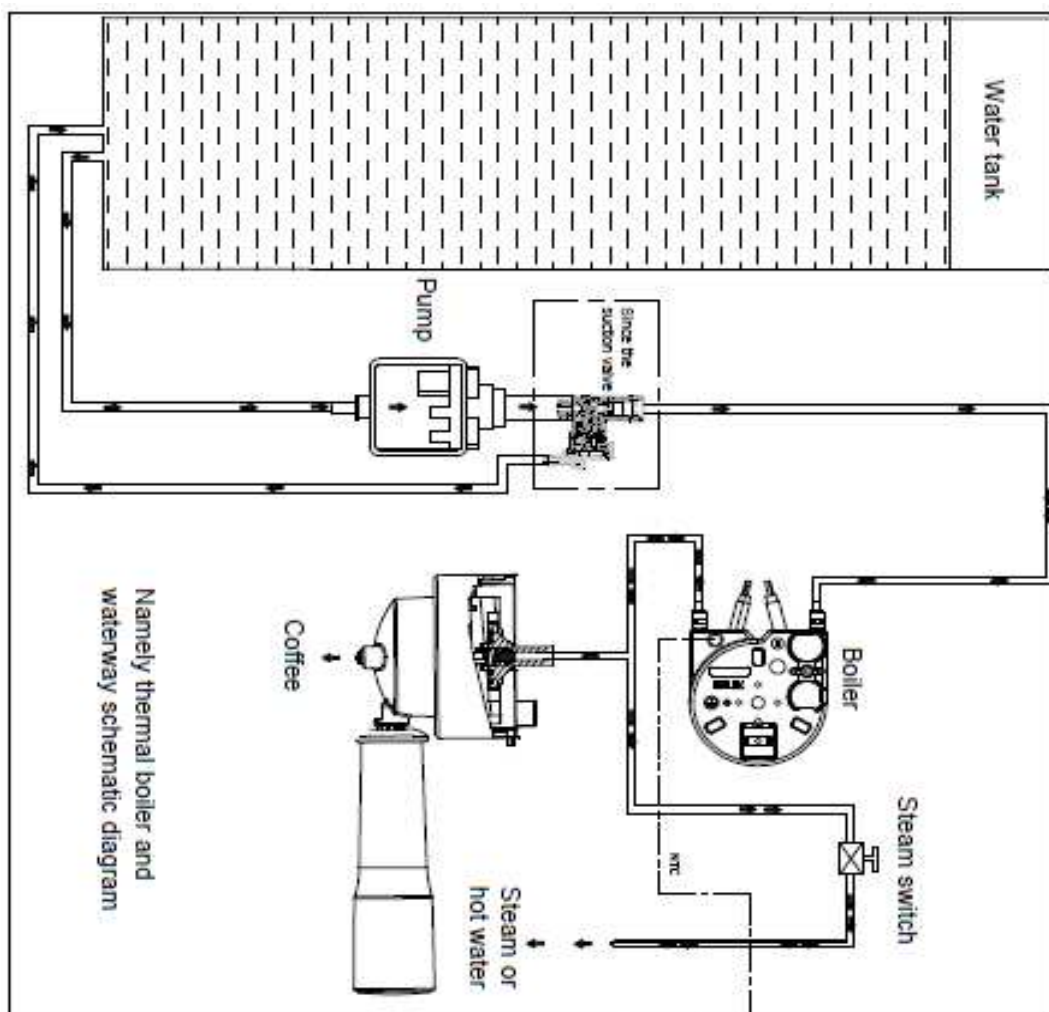
Namely thermal boiler and waterway schematic diagram



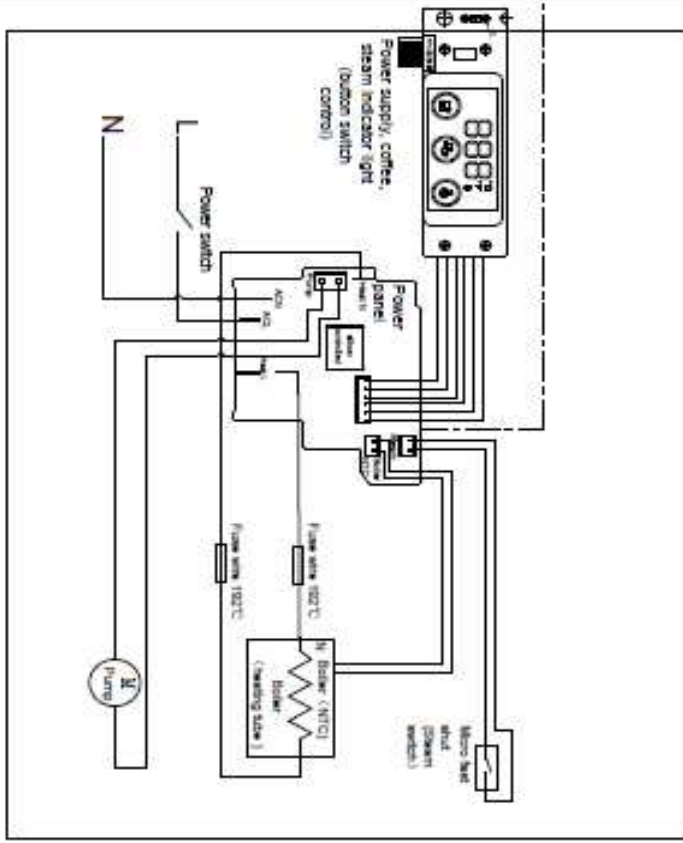
Electrical schematic diagram

7.0 Illustrations

Illustration 3i - Water road diagram and Electrical schematic diagram for model EM3207, EM3207P



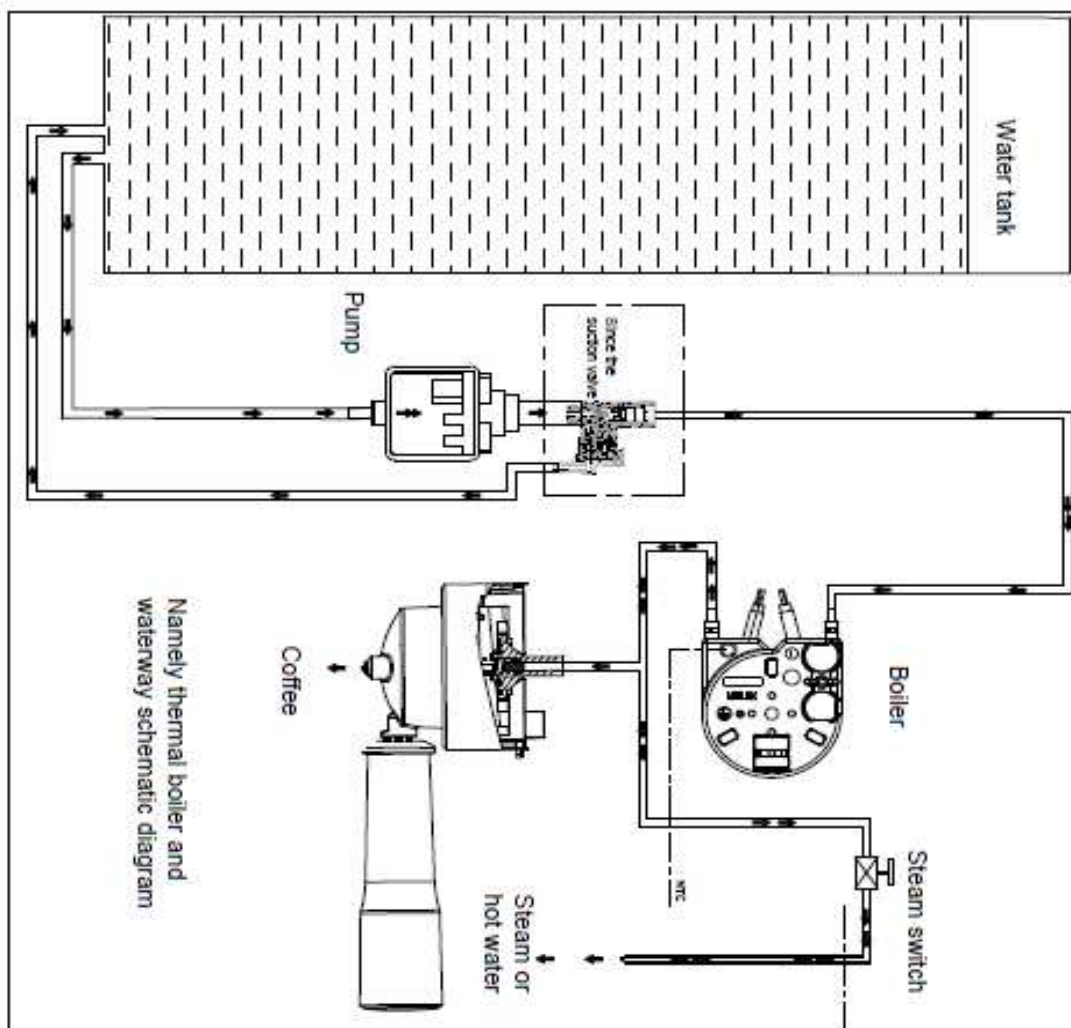
Namely thermal boiler and waterway schematic diagram



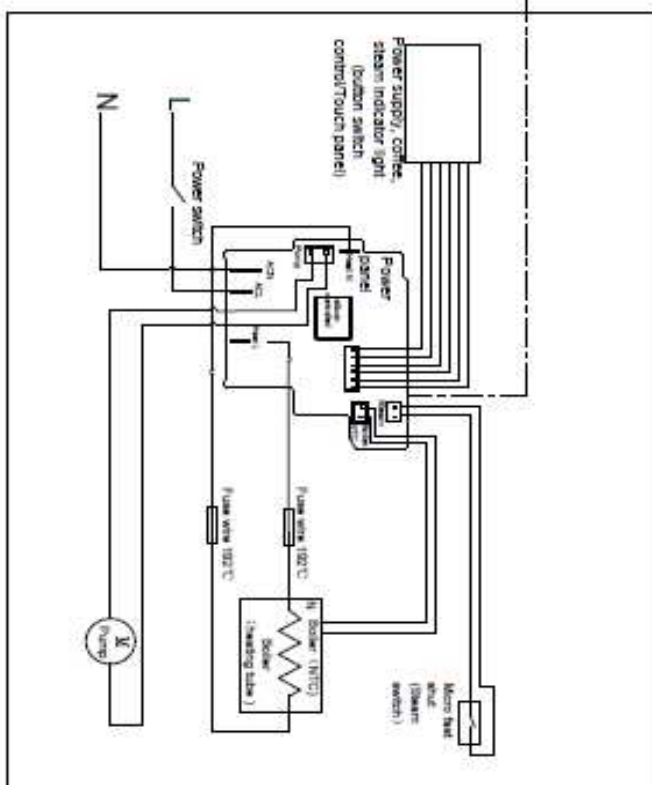
Electrical schematic diagram

7.0 Illustrations

Illustration 3j - Water road diagram and Electrical schematic diagram for model EM3201A



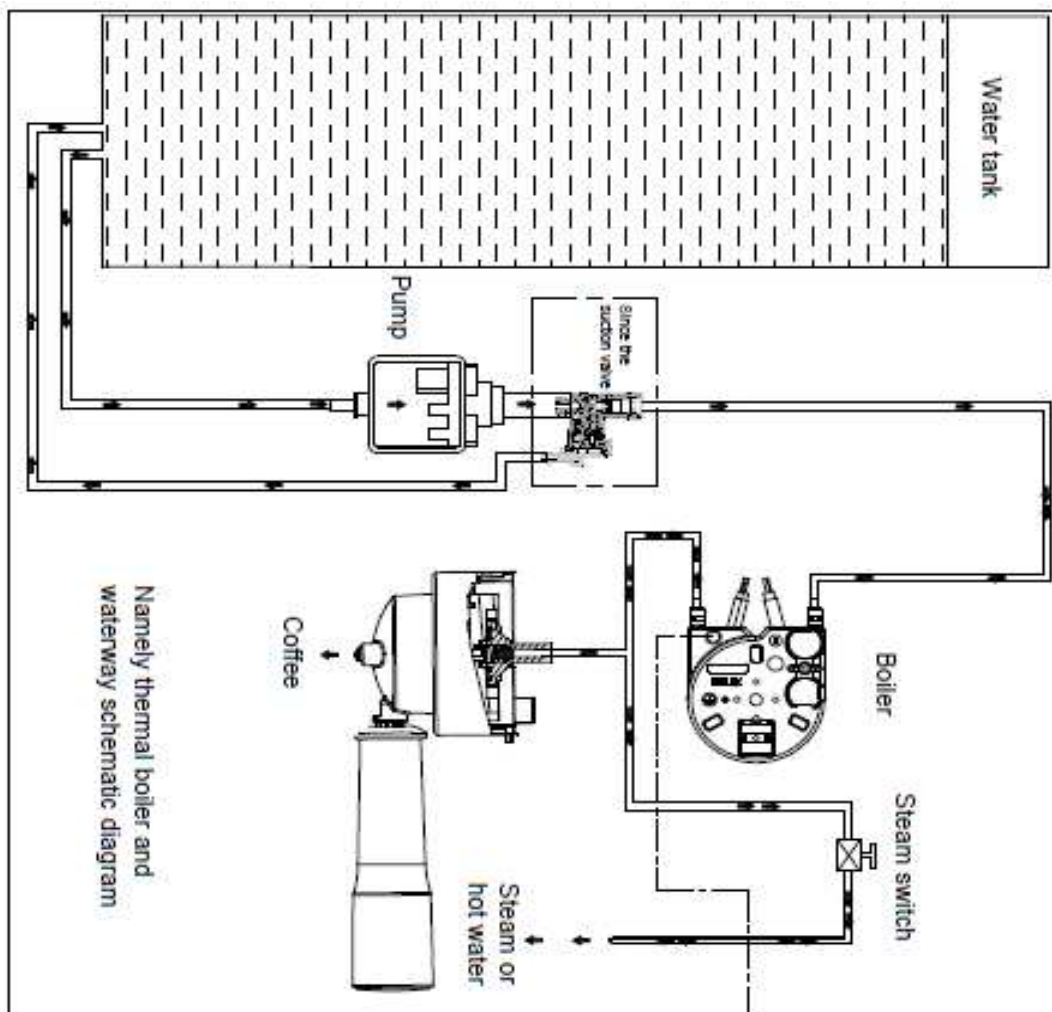
Namely thermal boiler and
 waterway schematic diagram



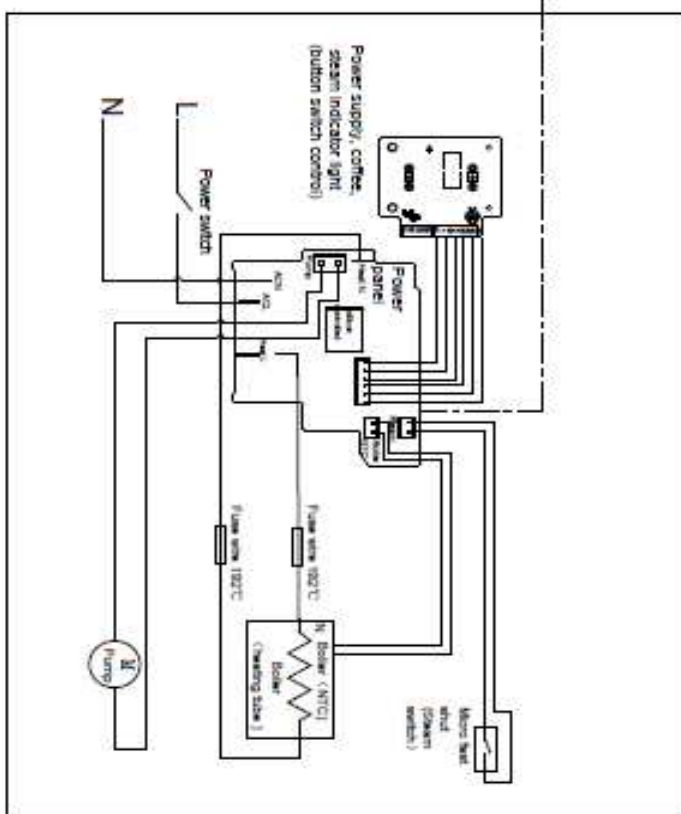
Electrical schematic diagram

7.0 Illustrations

Illustration 3k - Water road diagram and Electrical schematic diagram for model EM3206T



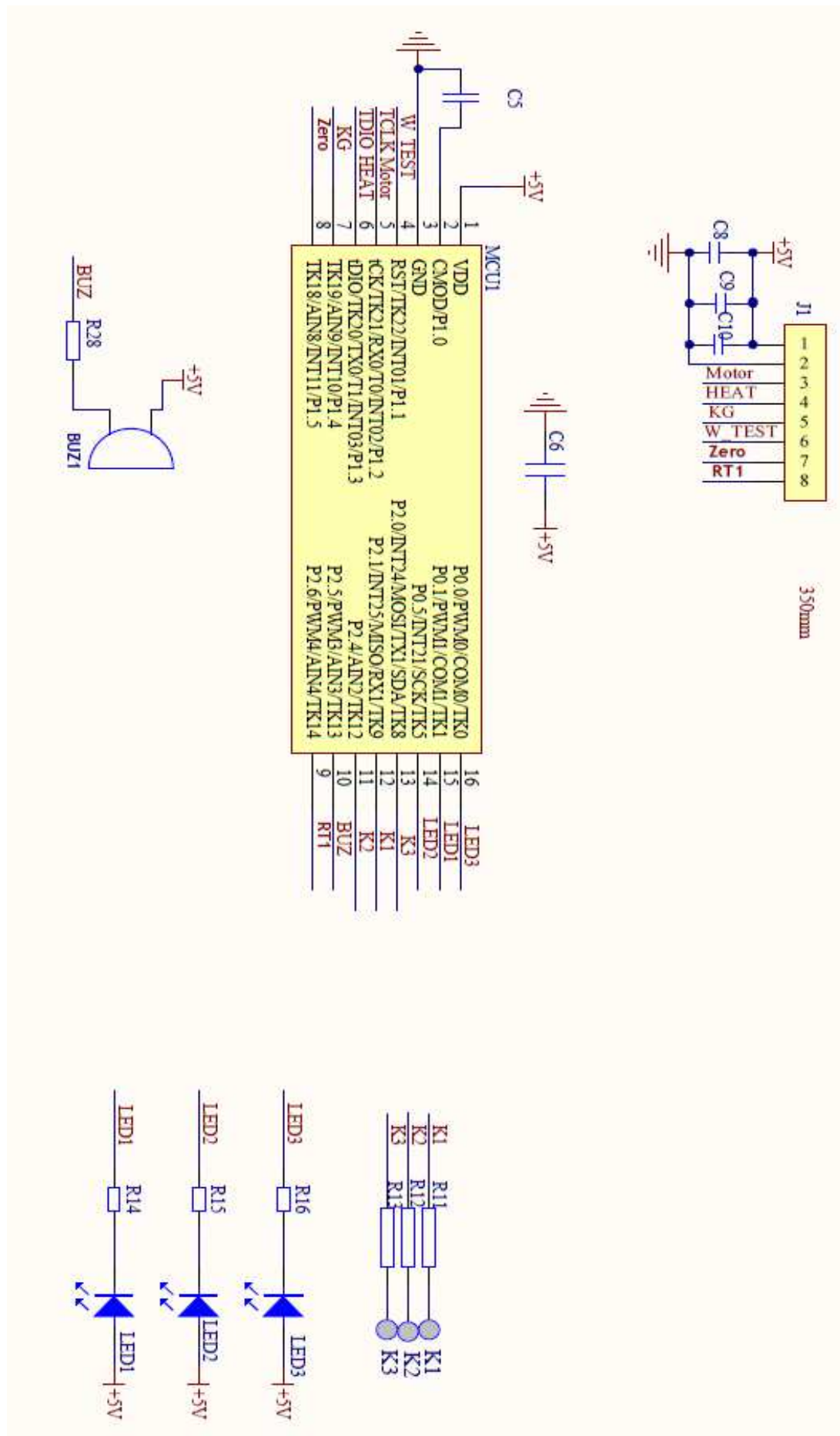
Namely thermal boiler and waterway schematic diagram



Electrical schematic diagram

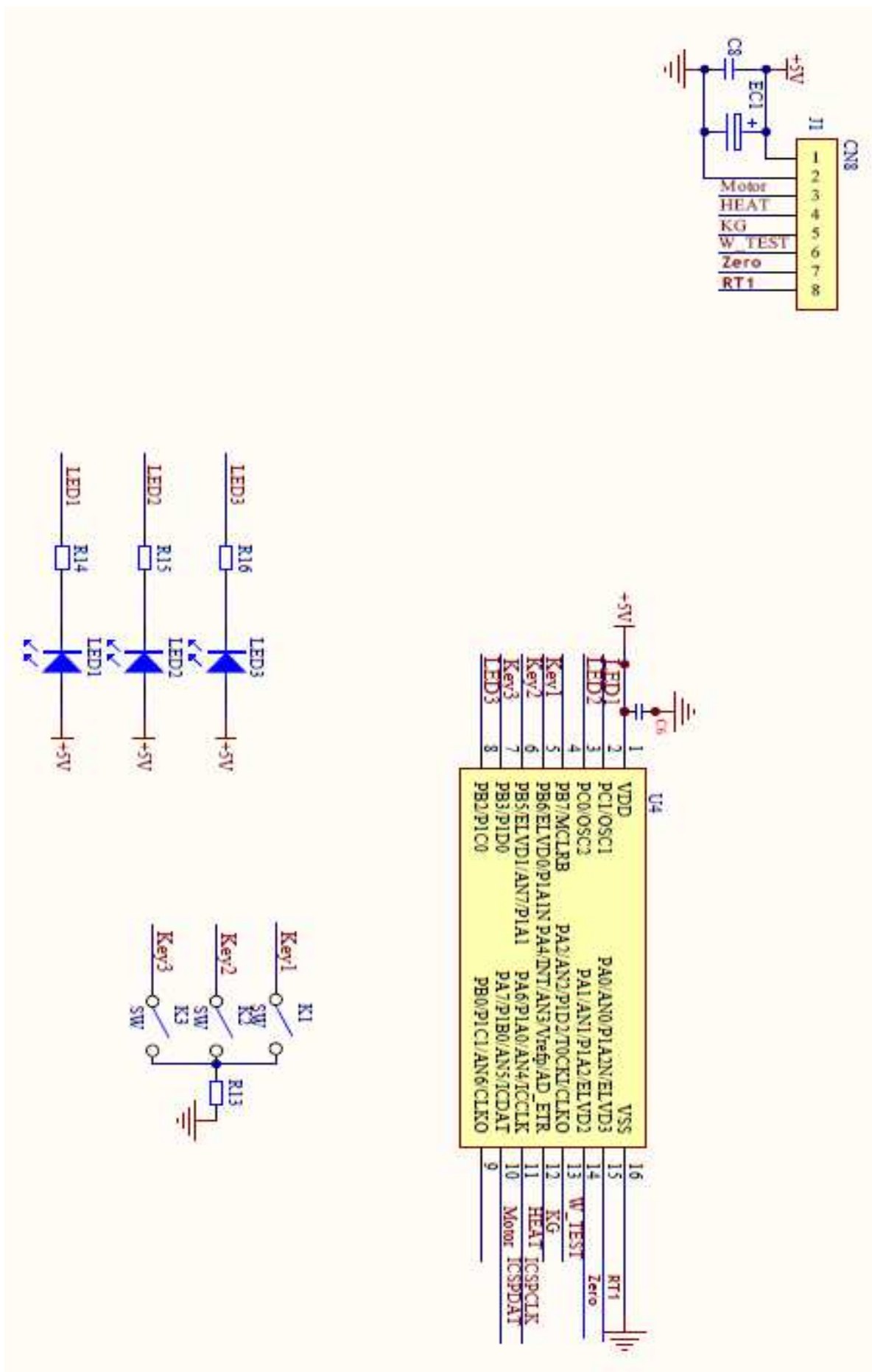
7.0 Illustrations

Illustration 31 - Circuit of Diagram of control pcb for model EM3101



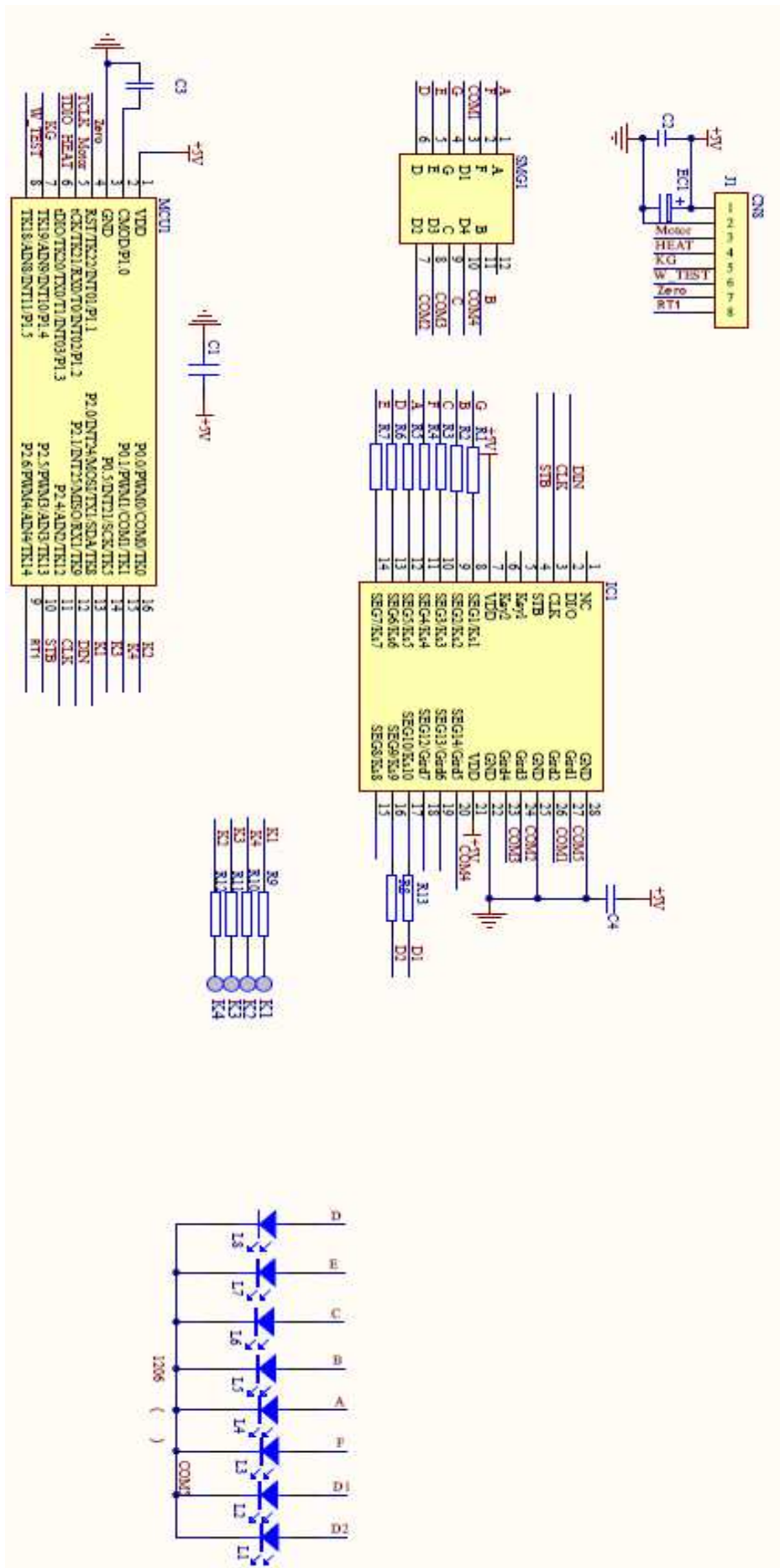
7.0 Illustrations

Illustration 3m - Circuit of Diagram of control pcb for model EM3102, EM3102T



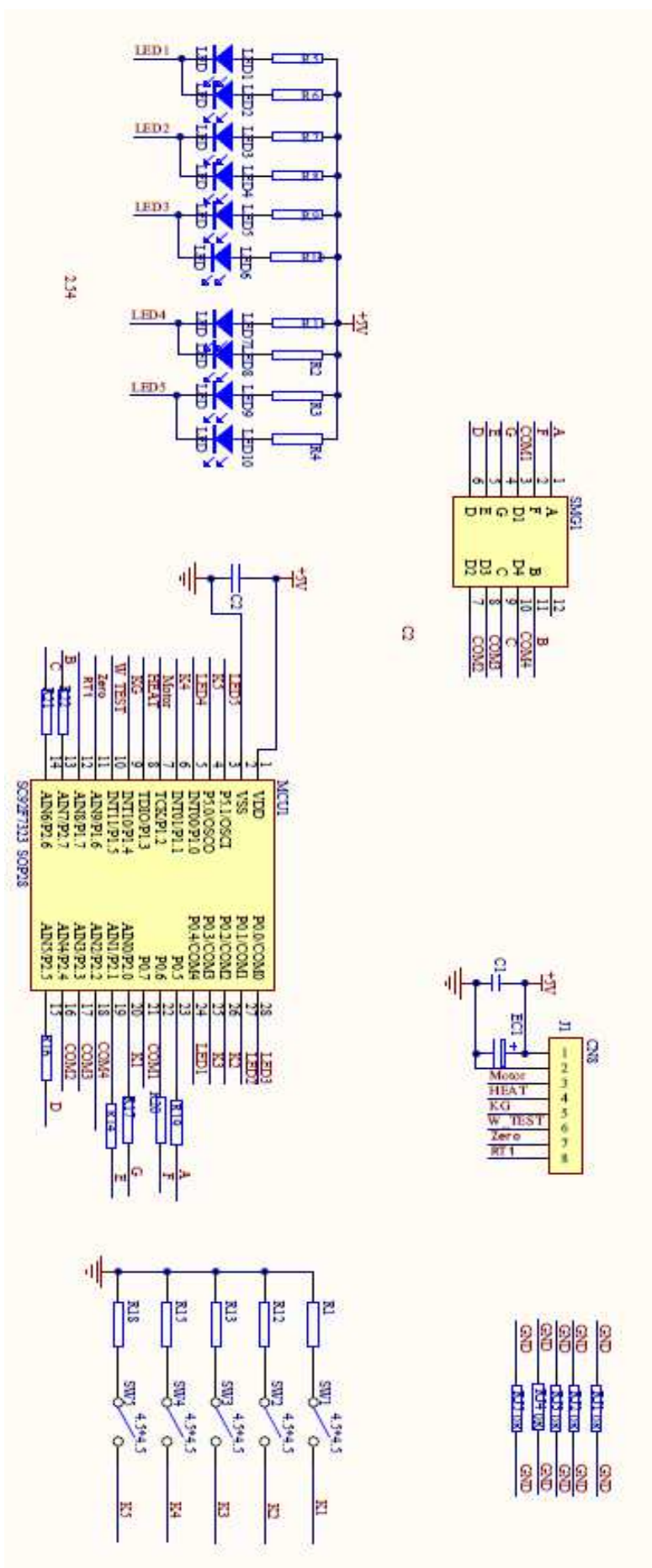
7.0 Illustrations

Illustration 3n - Circuit of Diagram of control pcb for model EM3201, EM3201P, EM3201A



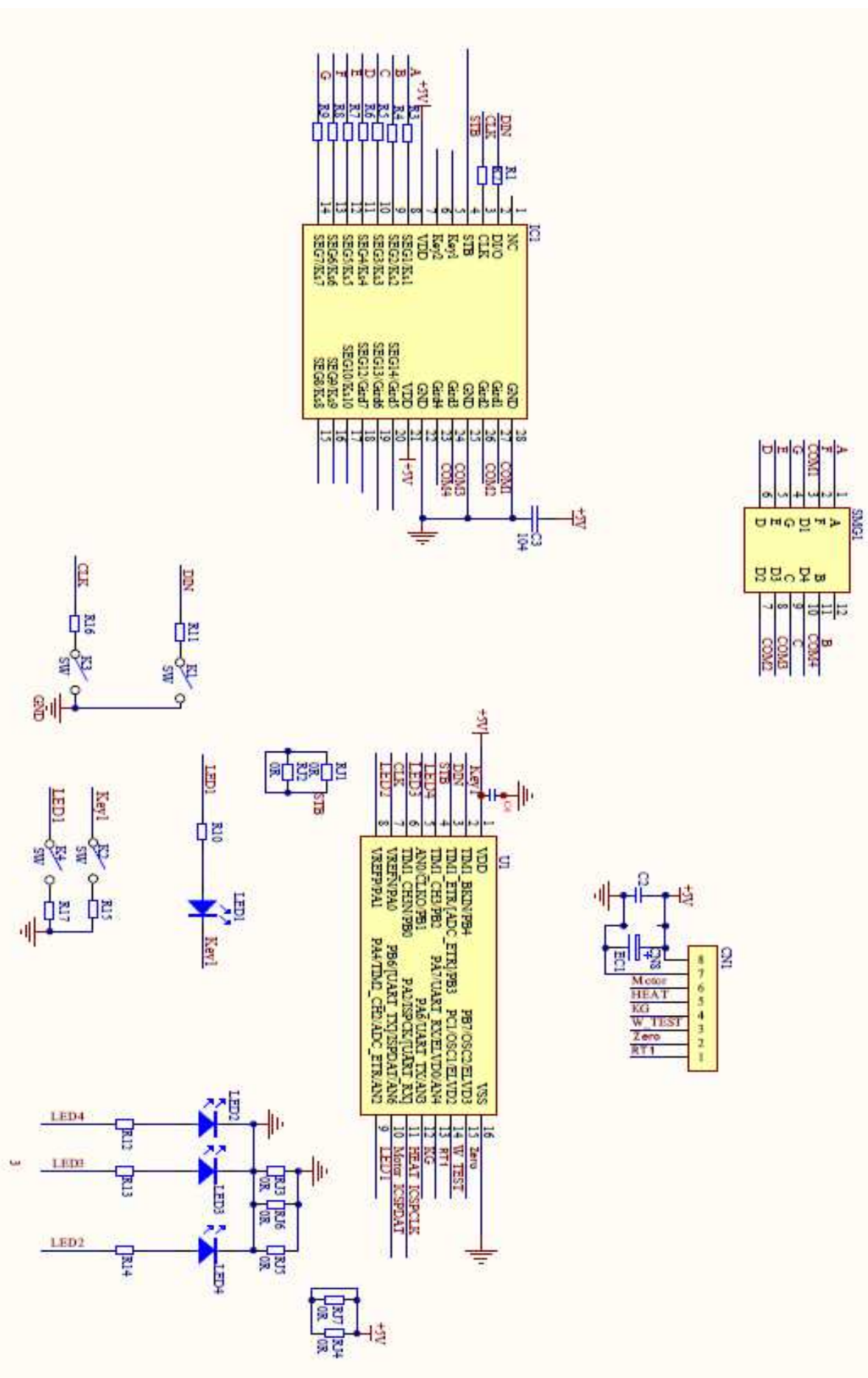
7.0 Illustrations

Illustration 3o - Circuit of Diagram of control pcb for model EM3202, GCF20E, EM3202P



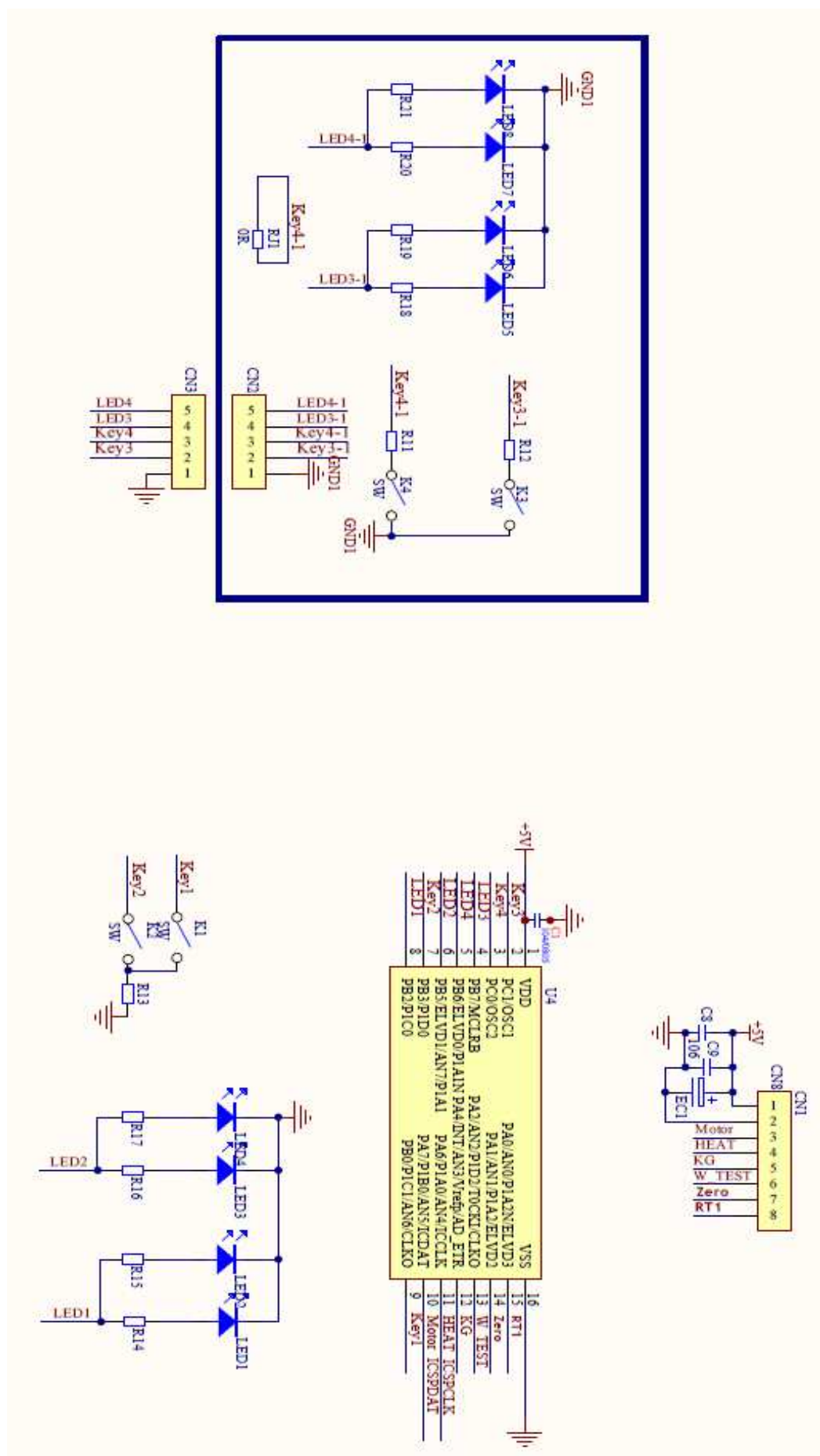
7.0 Illustrations

Illustration 3p - Circuit of Diagram of control pcb for model EM3203A



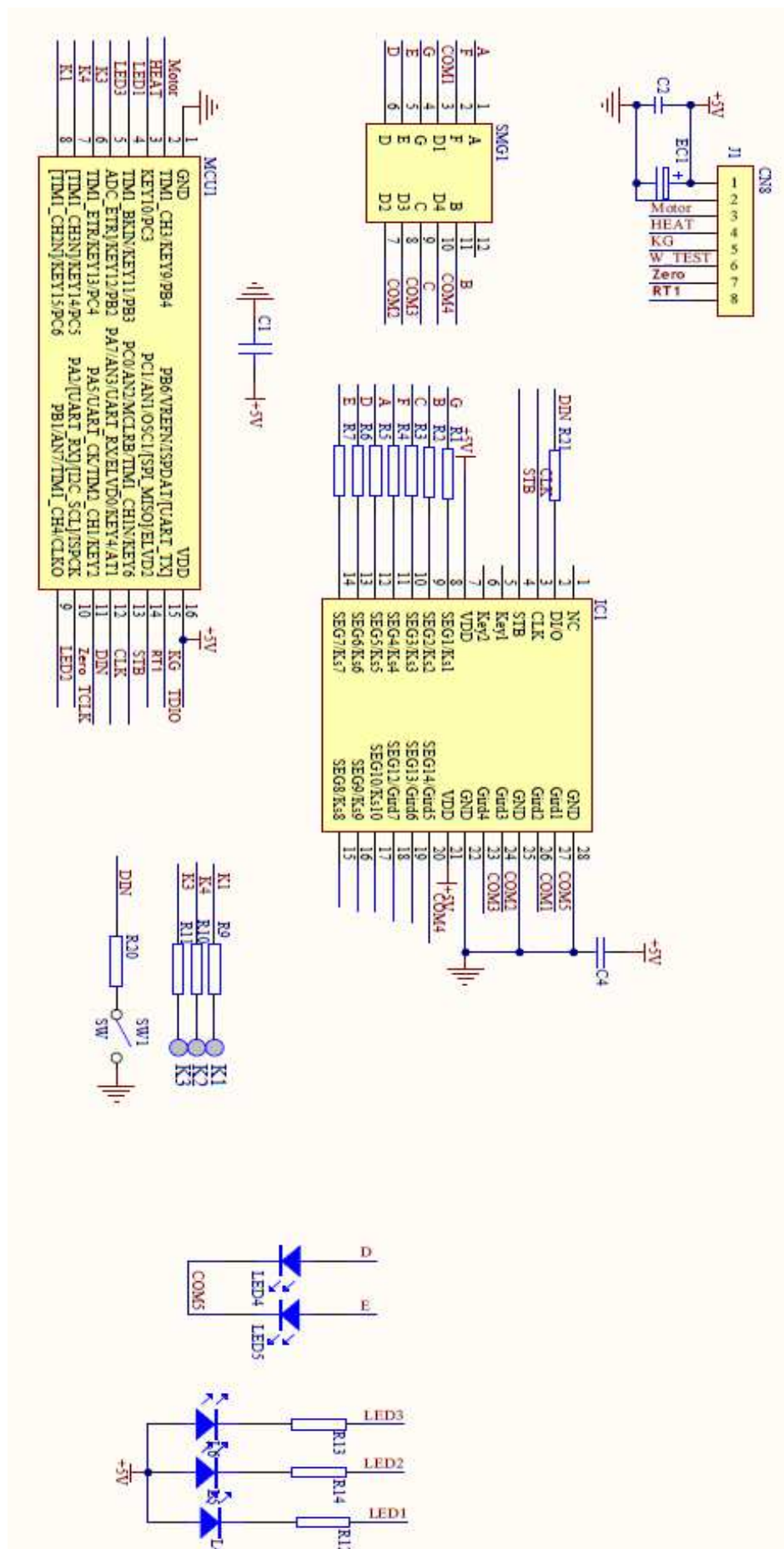
7.0 Illustrations

Illustration 3q - Circuit of Diagram of control pcb for model EM3206, EM3206P, EM3206T



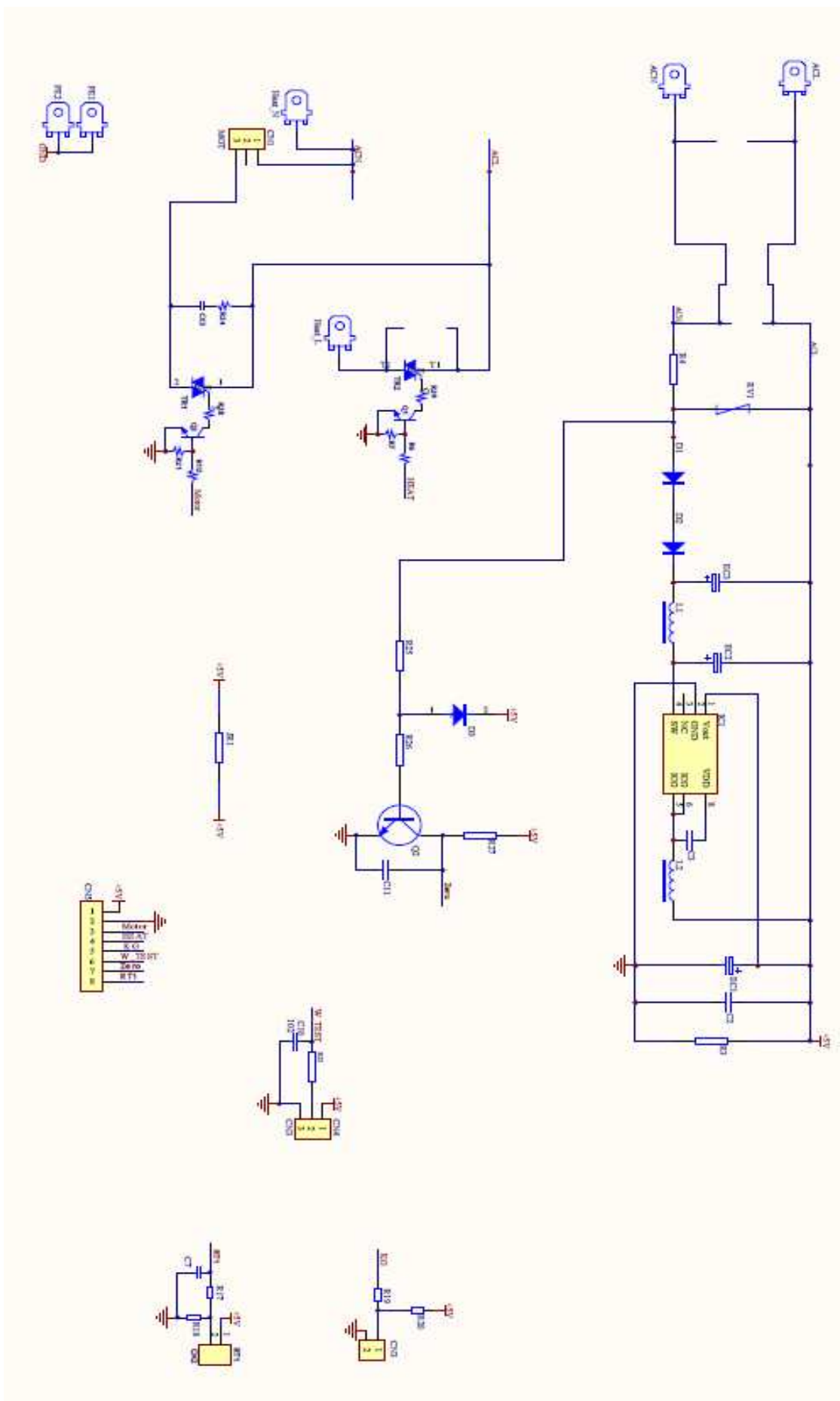
7.0 Illustrations

Illustration 3r - Circuit of Diagram of control pcb for model EM3207, EM3207P



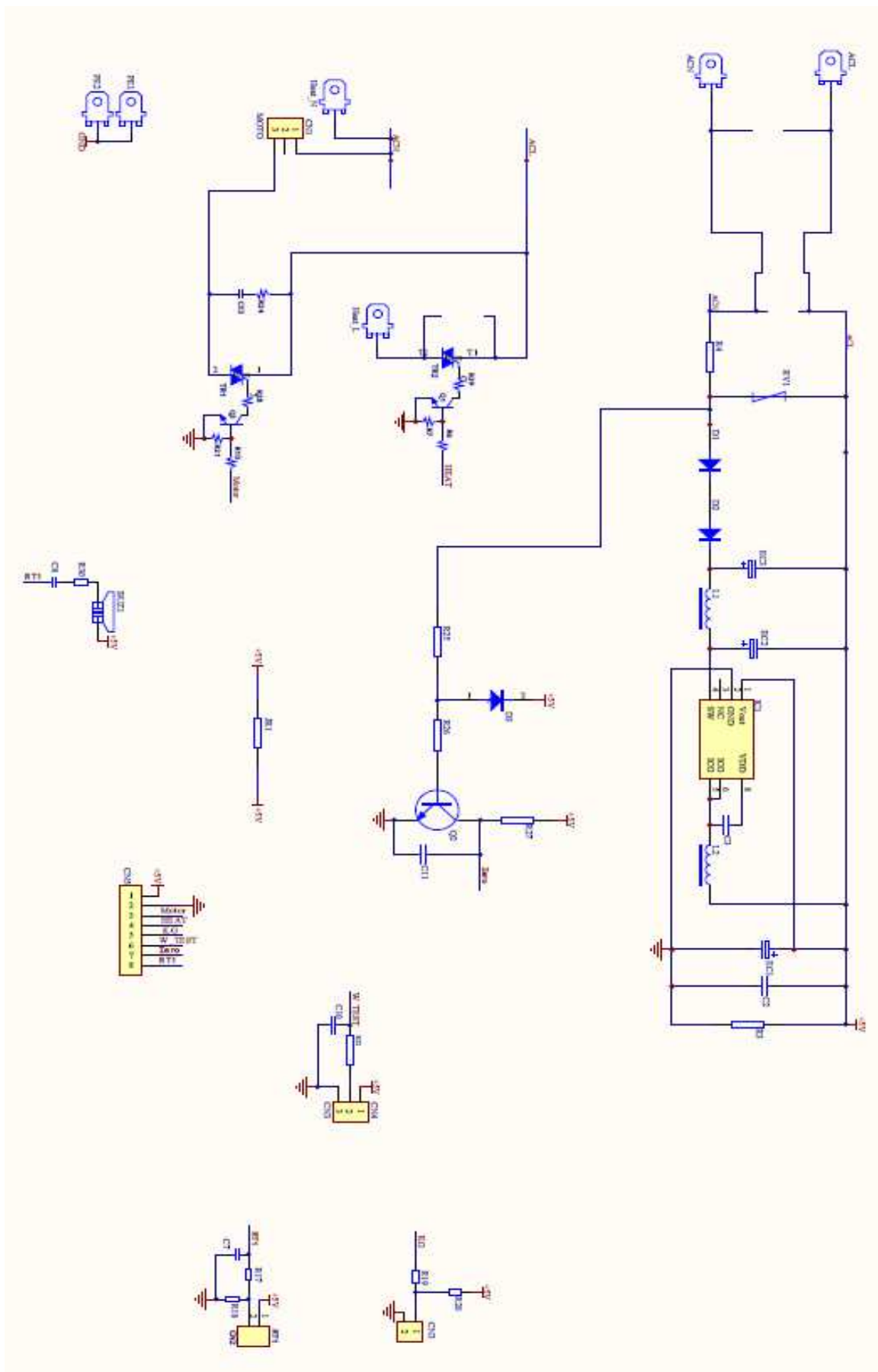
7.0 Illustrations

Illustration 3s - Circuit of Diagram of power pcb for models EM3101, EM3102, EM3102T



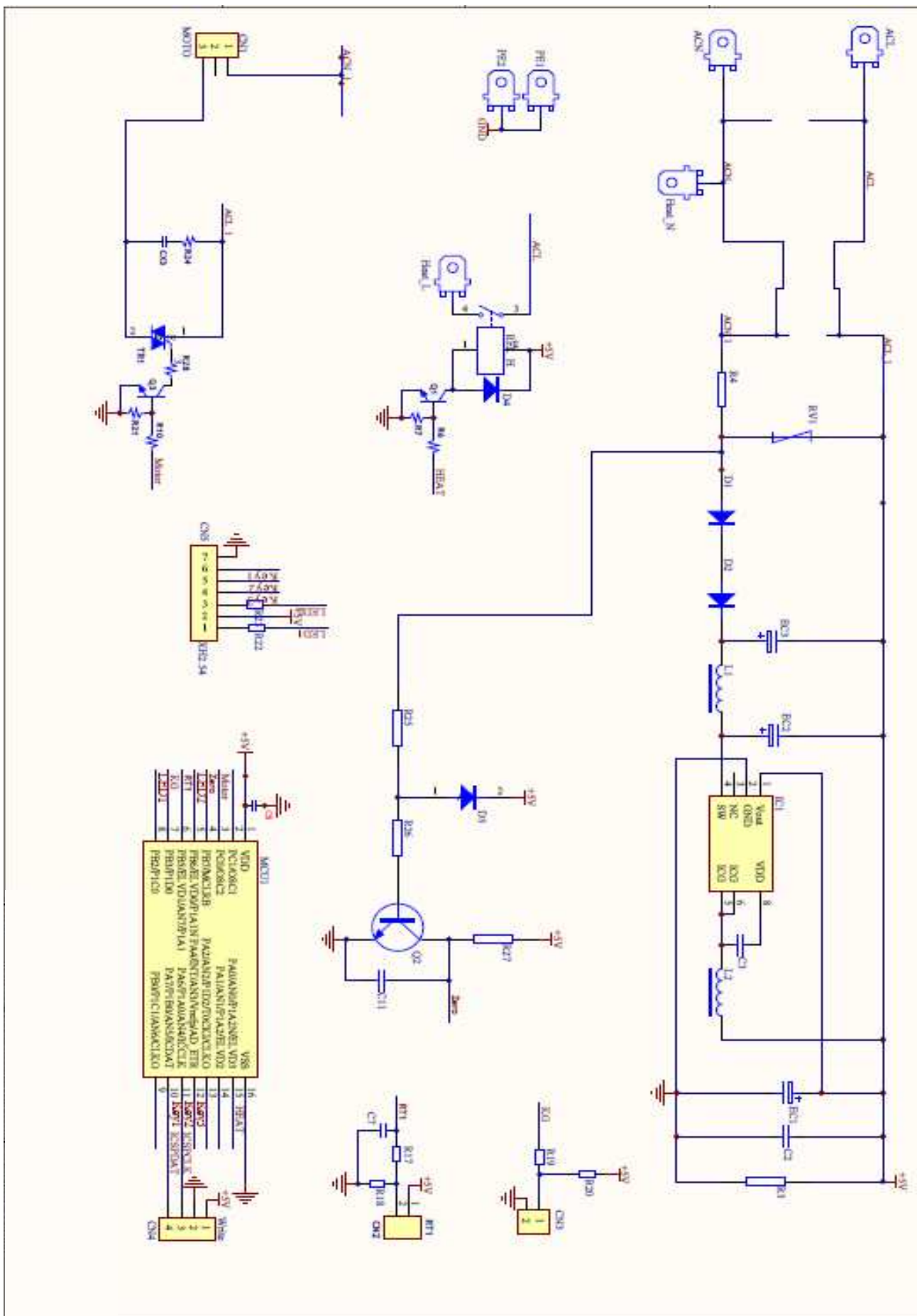
7.0 Illustrations

Illustration 3t - Circuit of Diagram of power pcb for models EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P



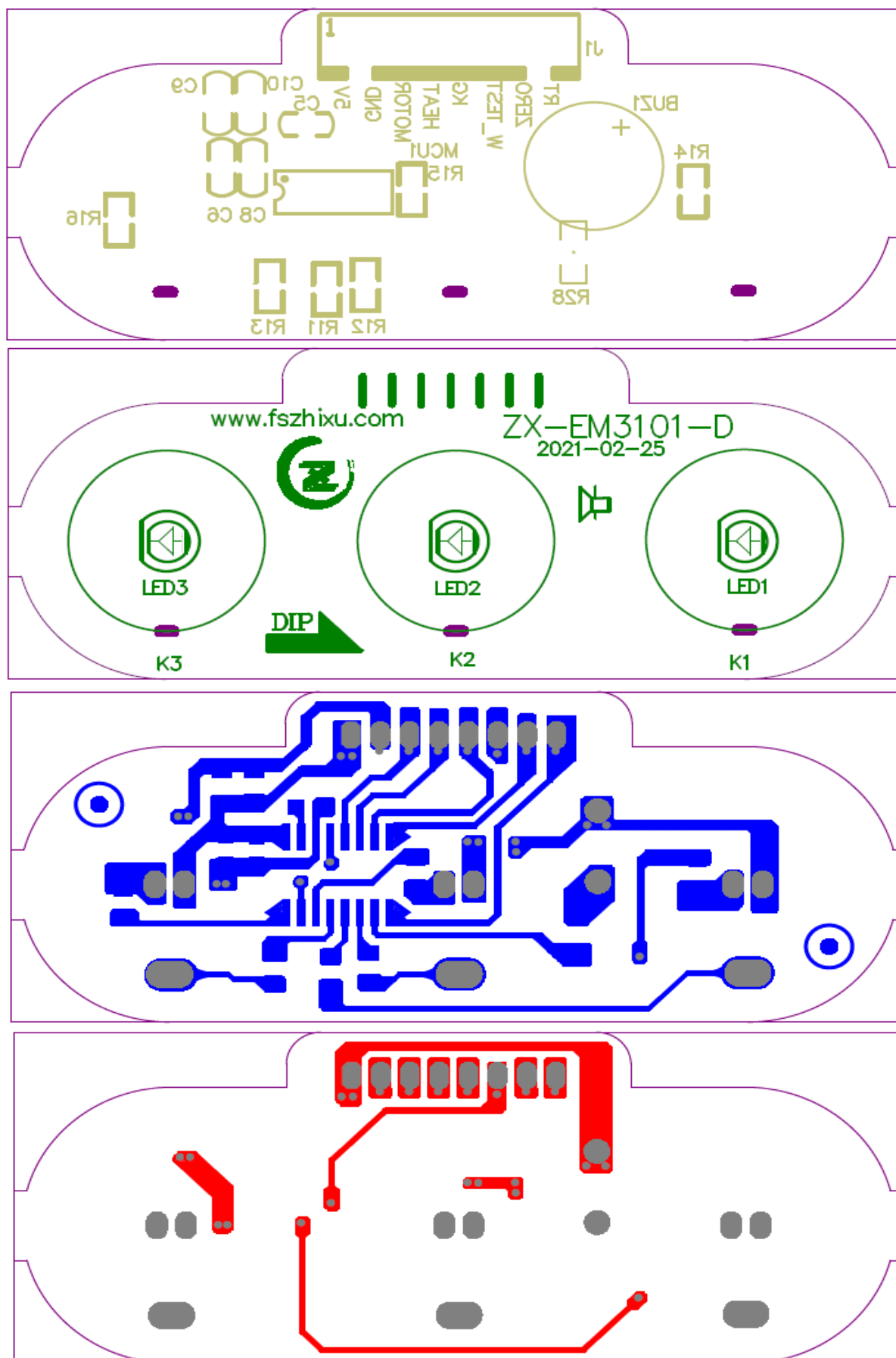
7.0 Illustrations

Illustration 3u - Circuit of Diagram of power pcb for models EM3203, EM3203T



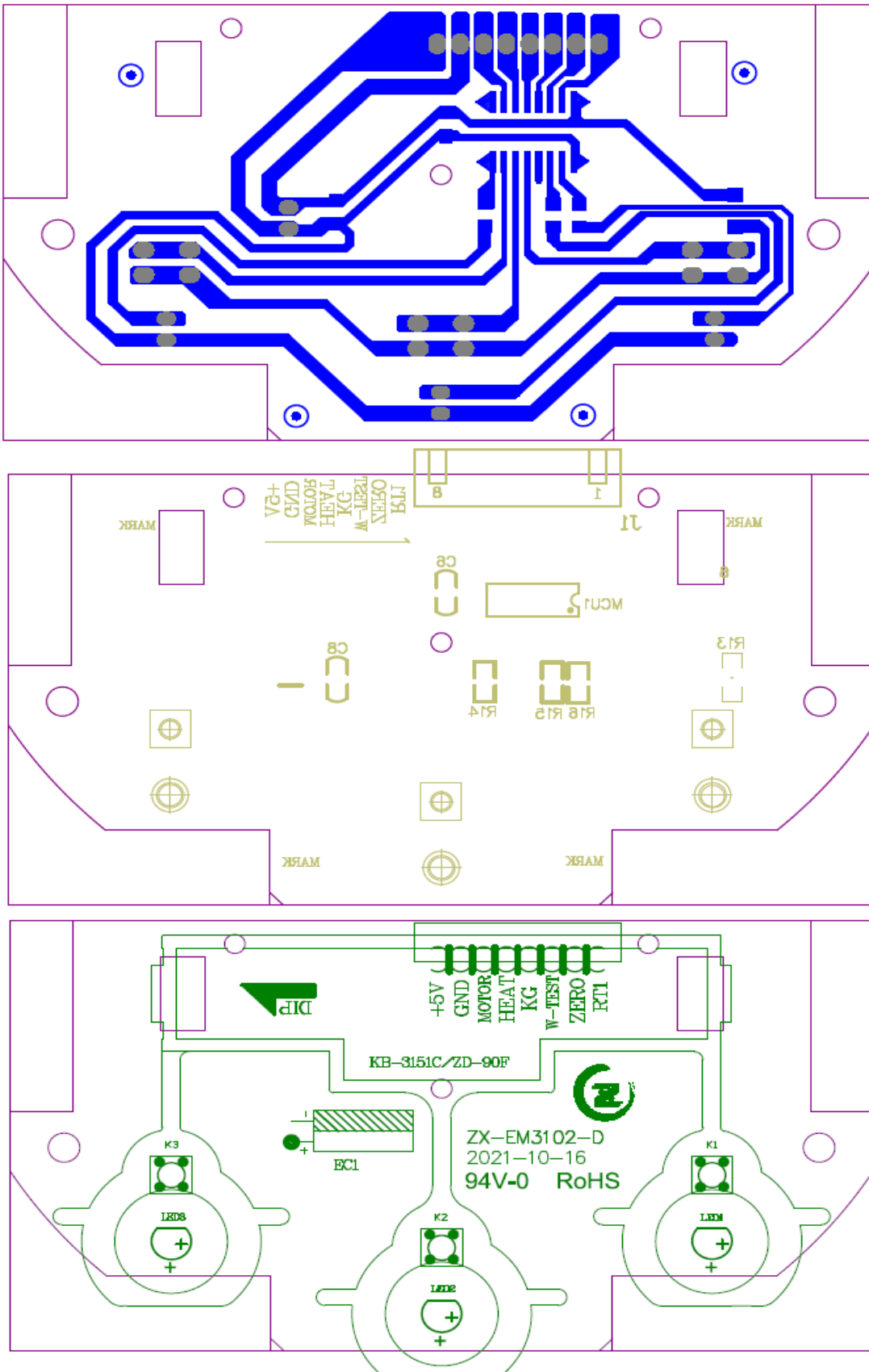
7.0 Illustrations

Illustration 4 - Control PCB Layout for model EM3101



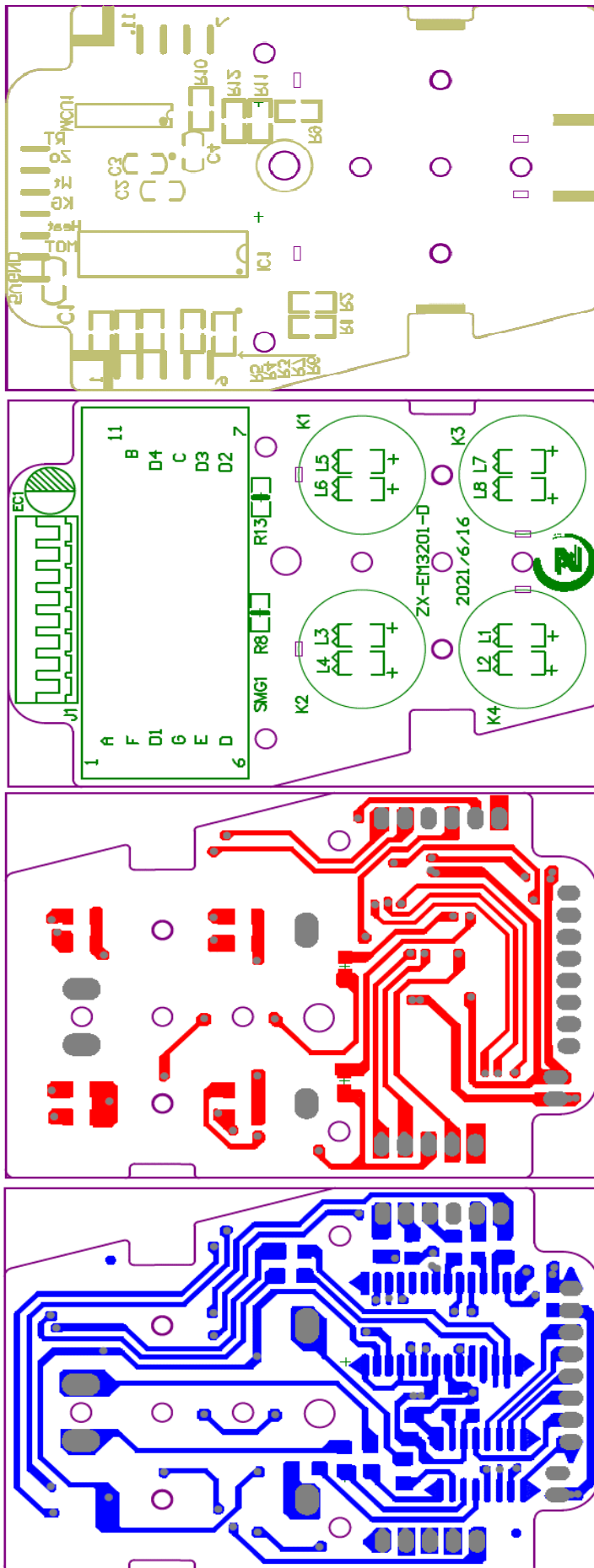
7.0 Illustrations

Illustration 4a - Control PCB Layout for model EM3102, EM3102T



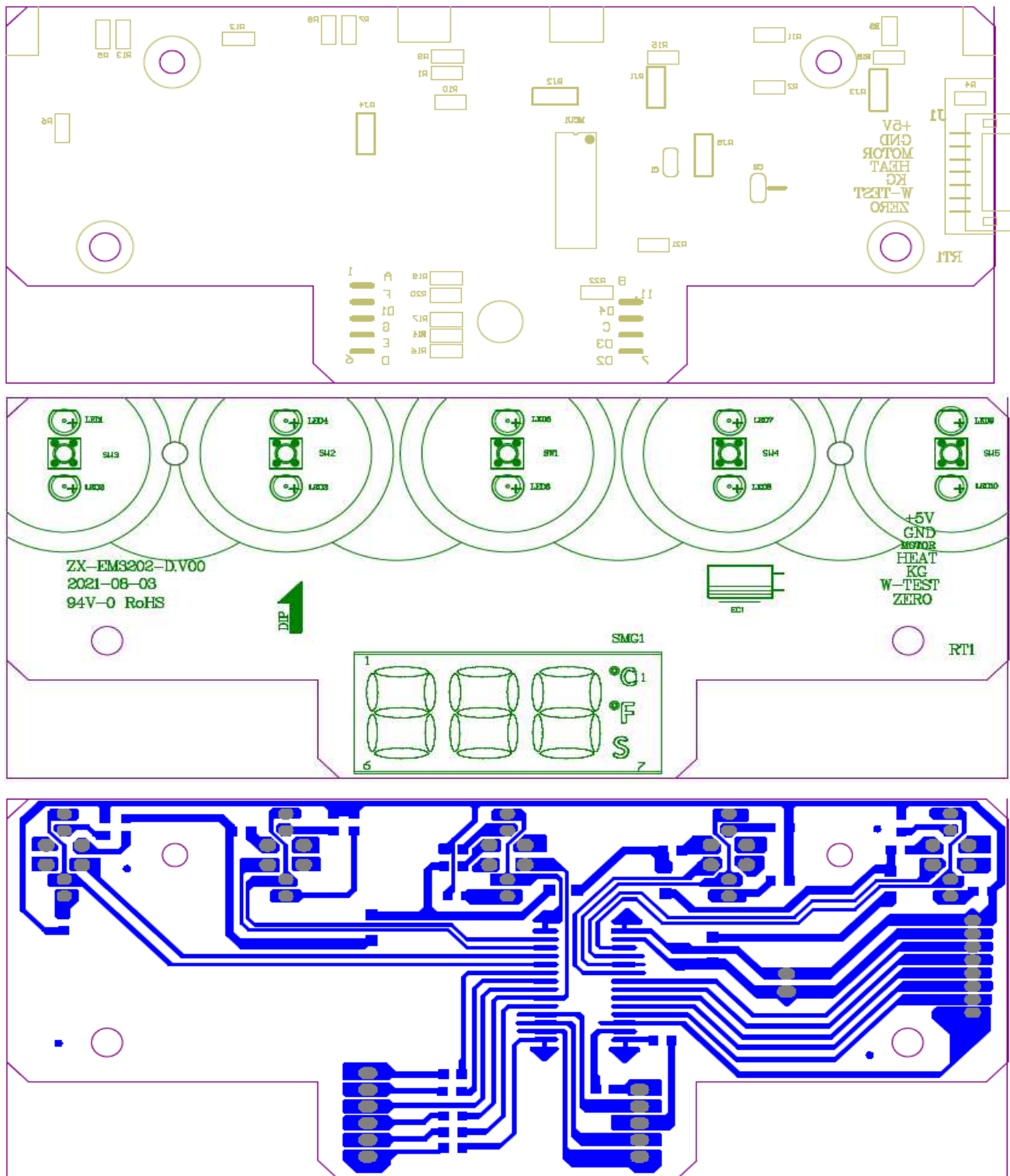
7.0 Illustrations

Illustration 4b - Control PCB Layout for model EM3201, EM3201P, EM3201A



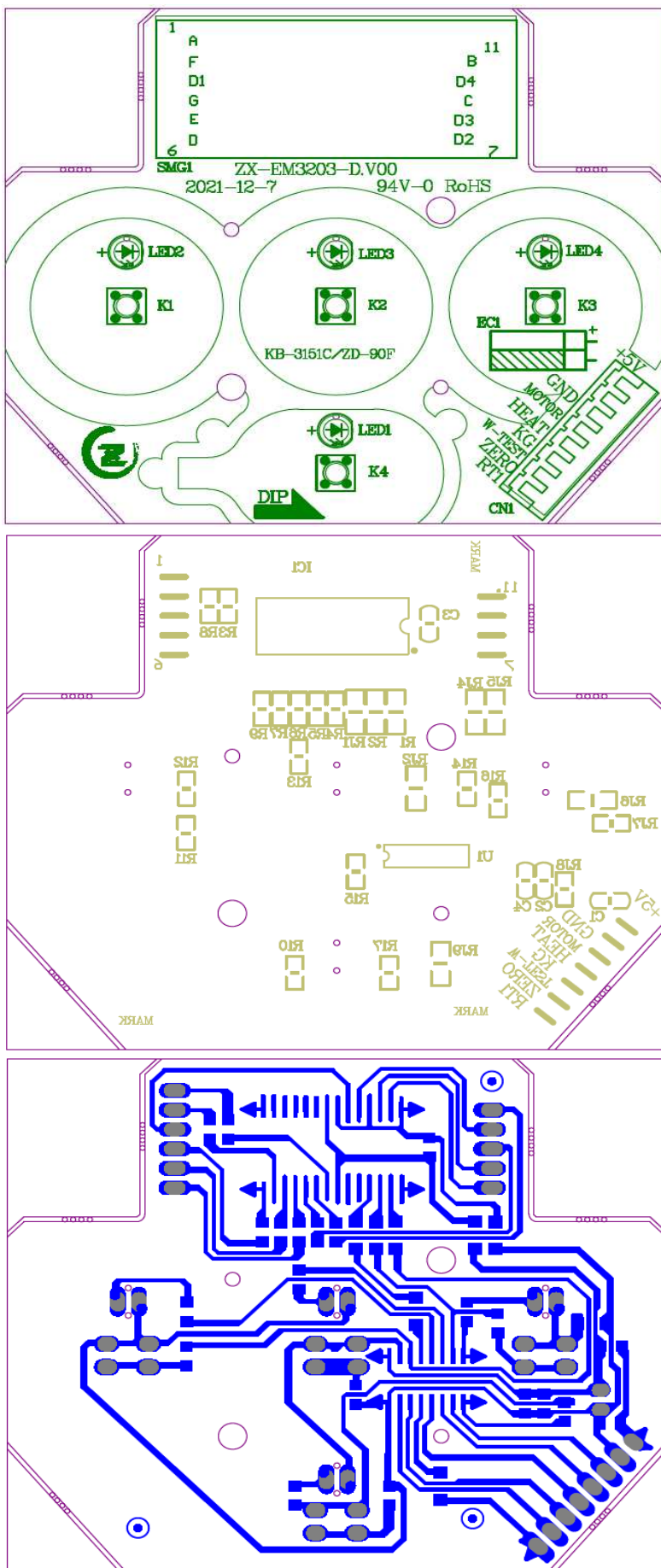
7.0 Illustrations

Illustration 4c - Control PCB Layout for model EM3202, GCF20E, EM3202P



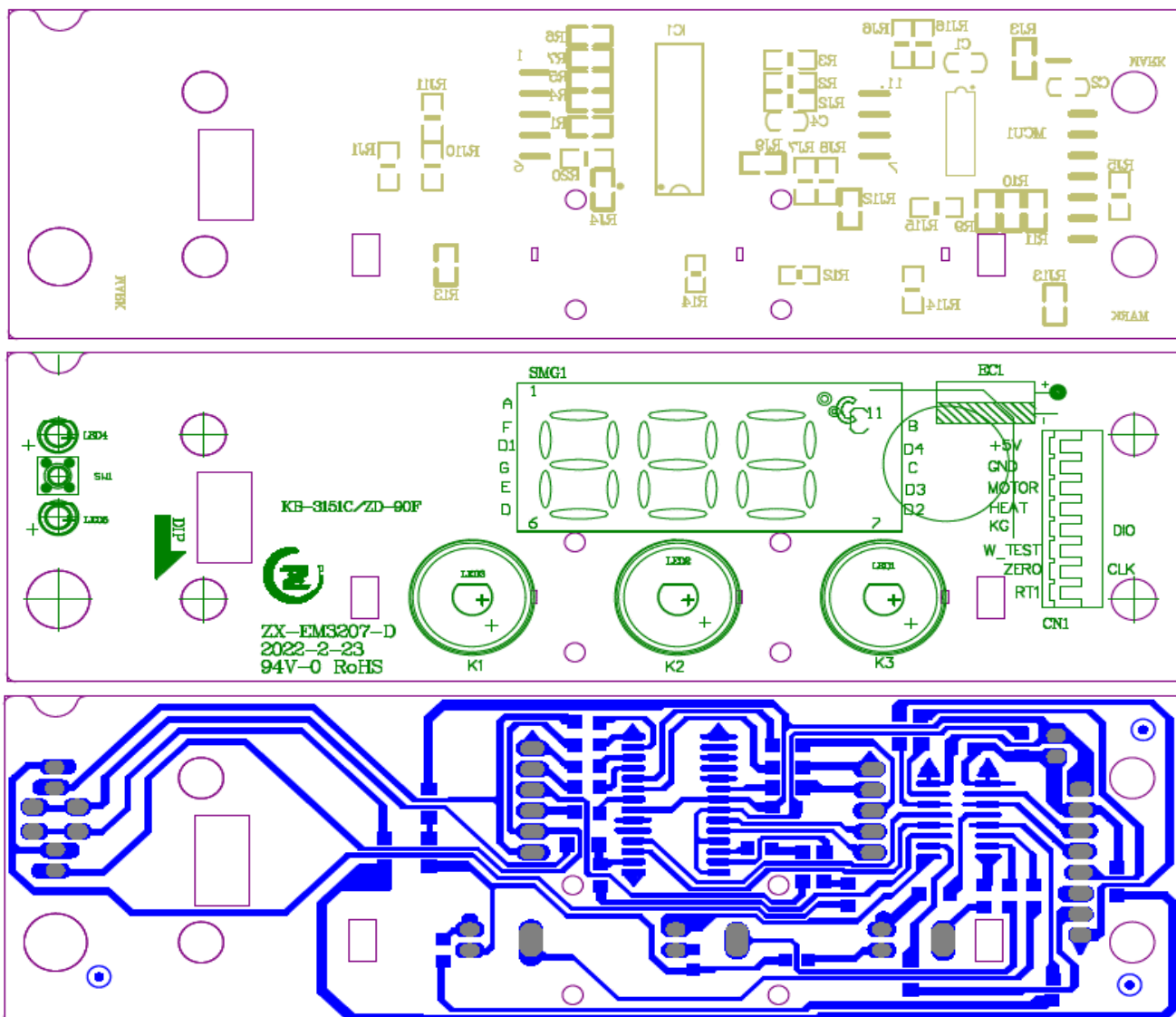
7.0 Illustrations

Illustration 4d - Control PCB Layout for model EM3203A



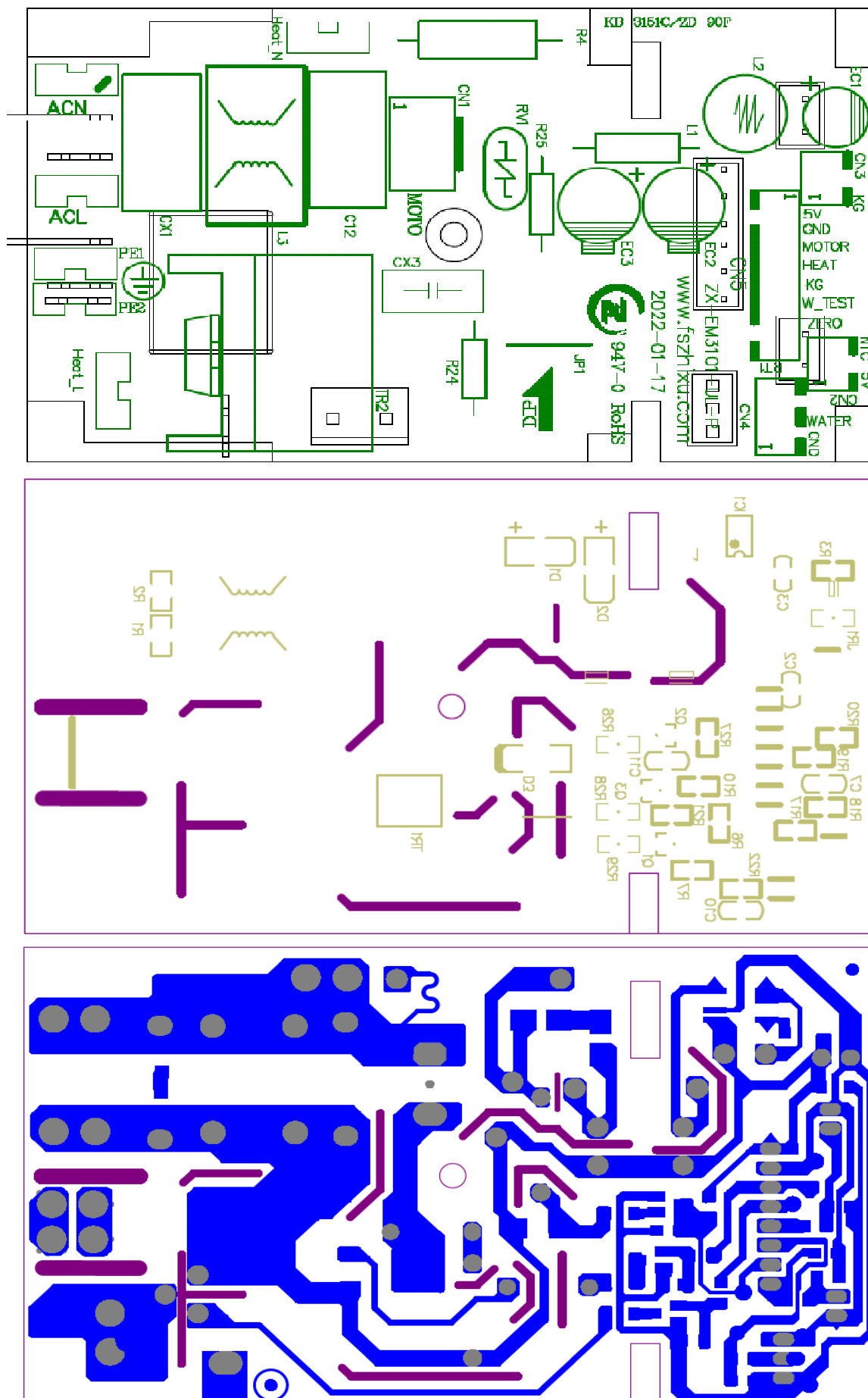
7.0 Illustrations

Illustration 4f - Control PCB Layout for model EM3207, EM3207P



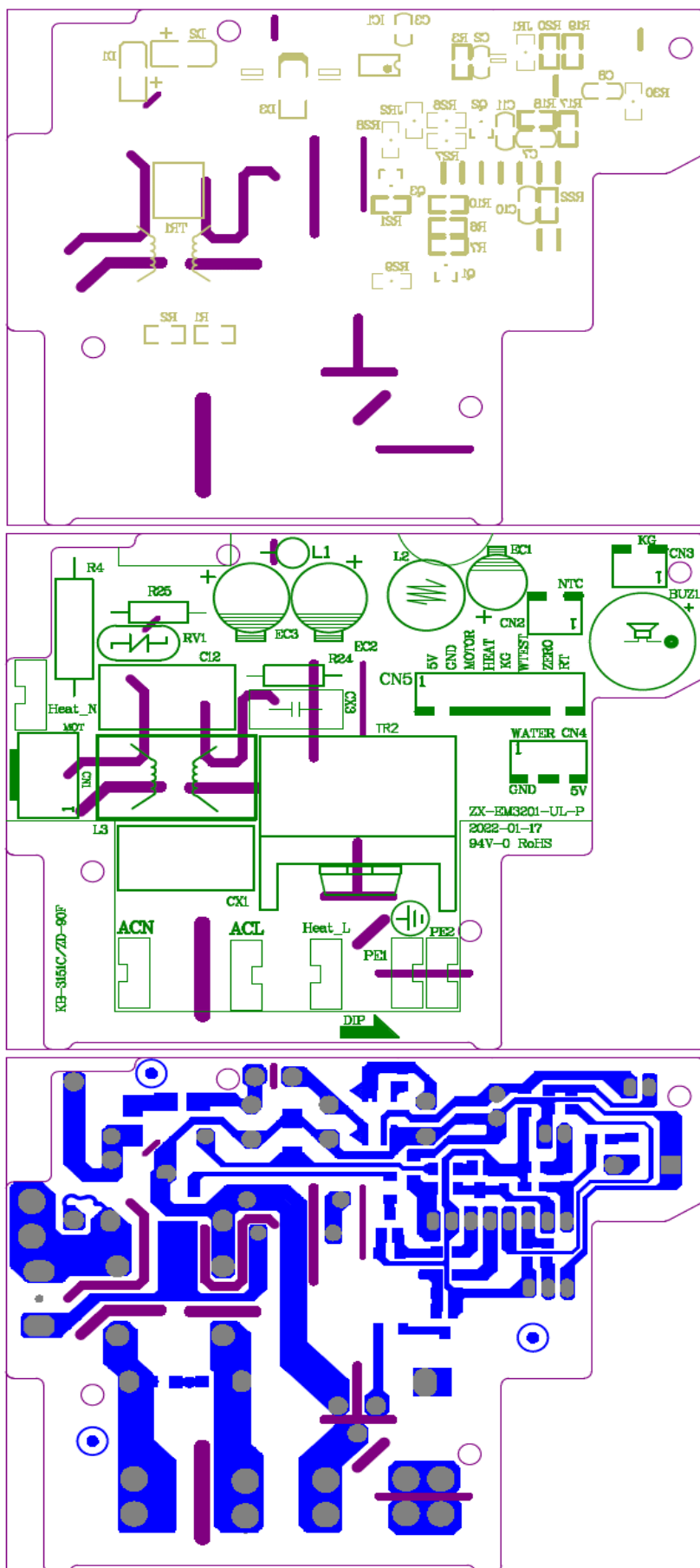
7.0 Illustrations

Illustration 4g - Power PCB Layout for models EM3101, GCF20D, EM3102, PE3680U, EM3102T



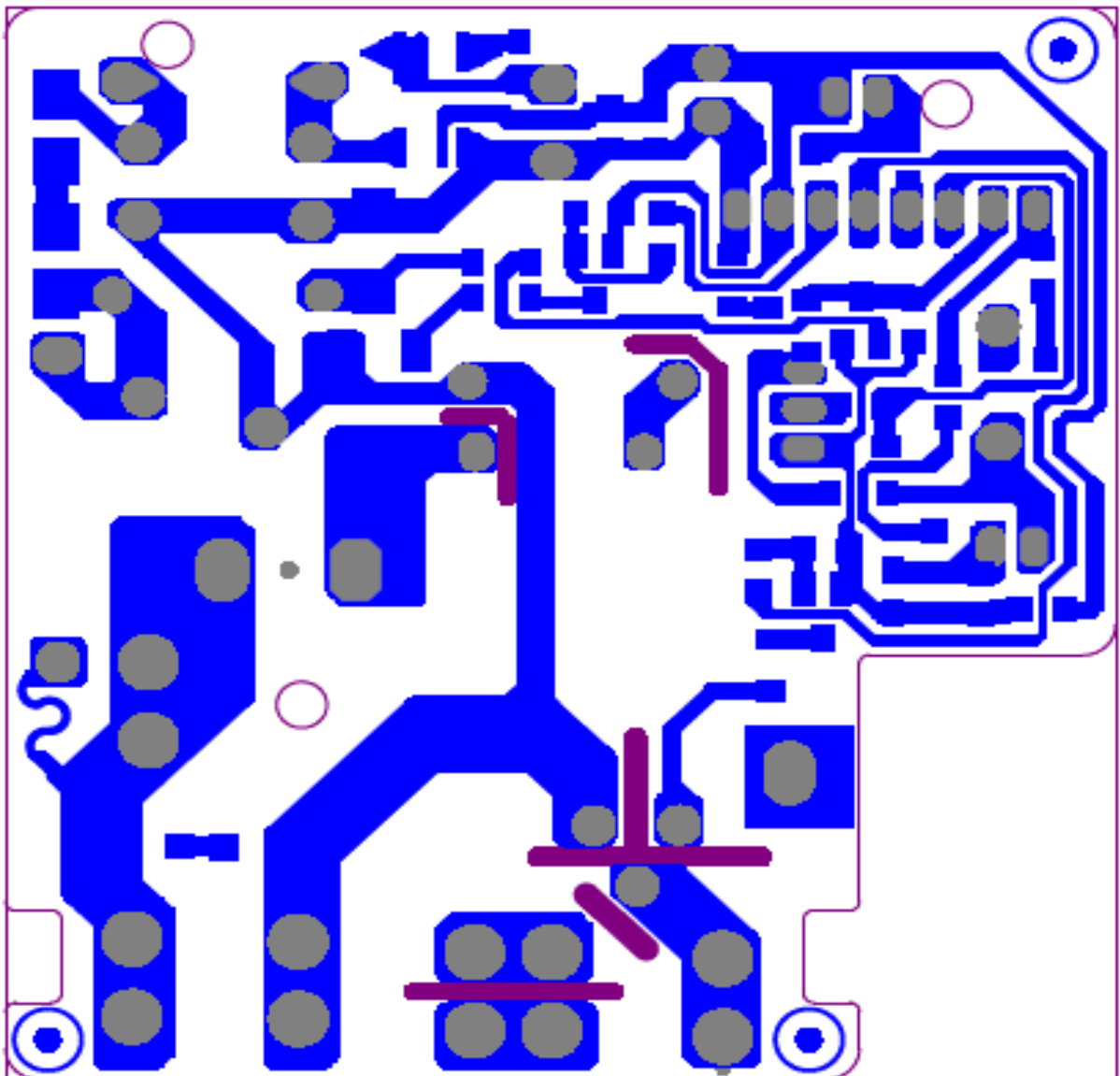
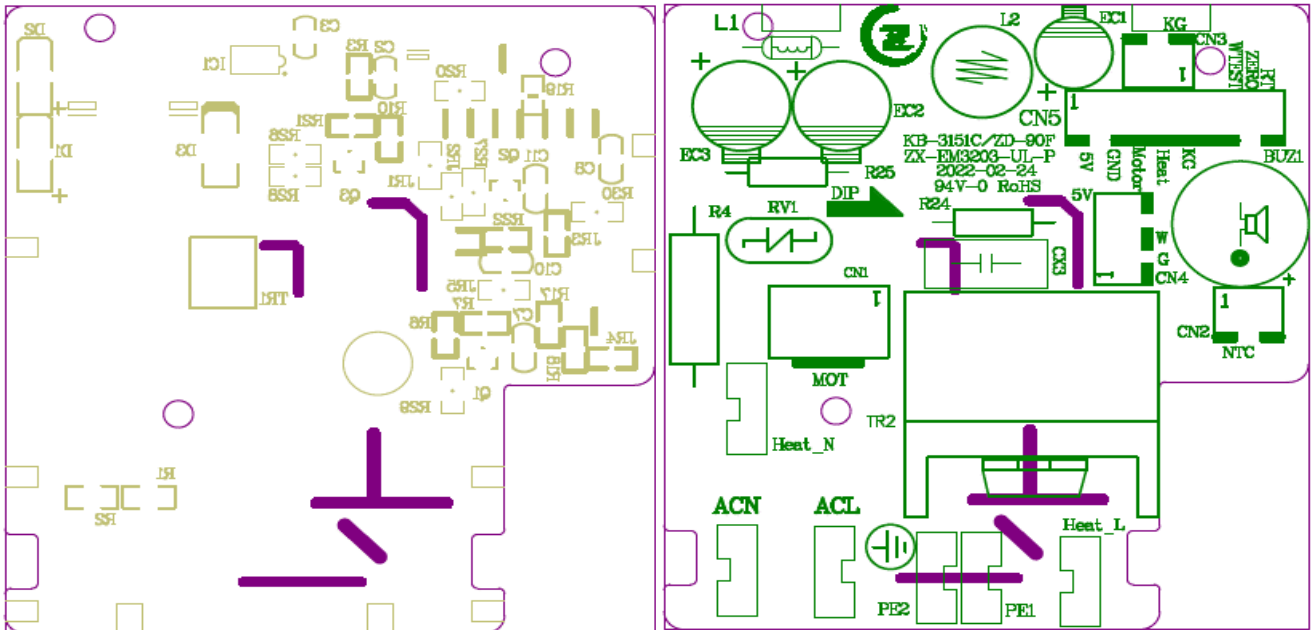
7.0 Illustrations

Illustration 4h - Power PCB Layout for model EM3201, EM3201P, EM3201A, EM3202, GCF20E, EM3202P, EM3206, EM3206P, EM3206T, EM3207, EM3207P



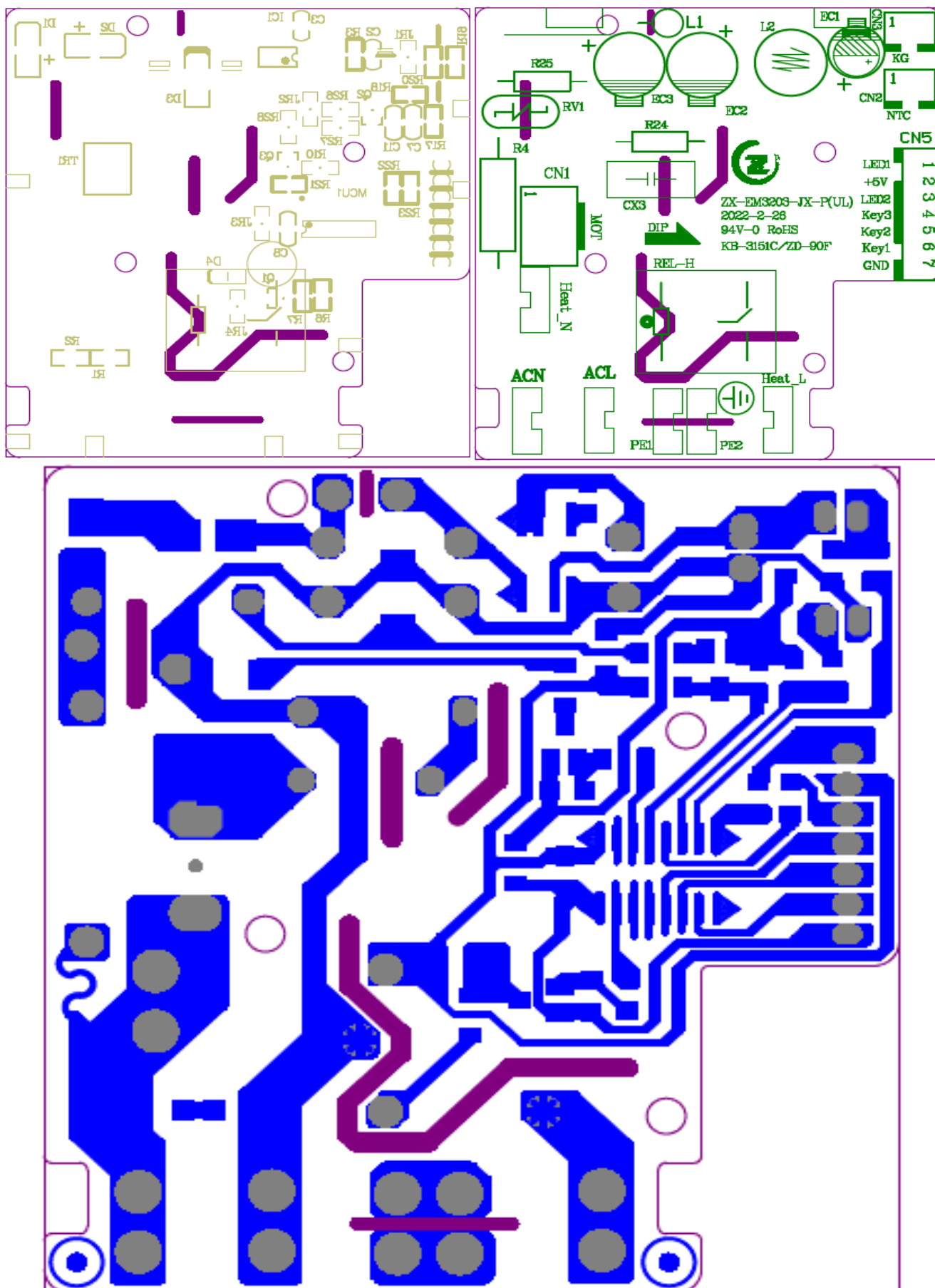
7.0 Illustrations

Illustration 4i - Power PCB Layout for model EM3203A



7.0 Illustrations

Illustration 4j - Power PCB Layout for model EM3203, EM3203T



7.0 Illustrations

Illustration 6 - Drawing of Toggle Switch 1, type BD-001

Technical requirements:

1. There shall be no batch edge, burr or scratching around;
2. The surface shall not have obvious deformation, damage, shrinkage, top white, etc.;
3. The material conforms to ROHS, flame retardant requirements, glow-wire test 750°3S 850°30S pass;

Date	2022.05.23	Jiangmen Mielux Intelligent and Technology Co., Ltd.
Drawn	Yao Xiang <td>Product Name</td>	Product Name
Checked	Yao Xiang <td>Product No.</td>	Product No.
		Part No.
		Part Name
		Customer
		Page

Modify the reason

Product No. 20-001 Part No.

Product Name

Part Name

Customer

Page

TYPE1021 16A 250VAC

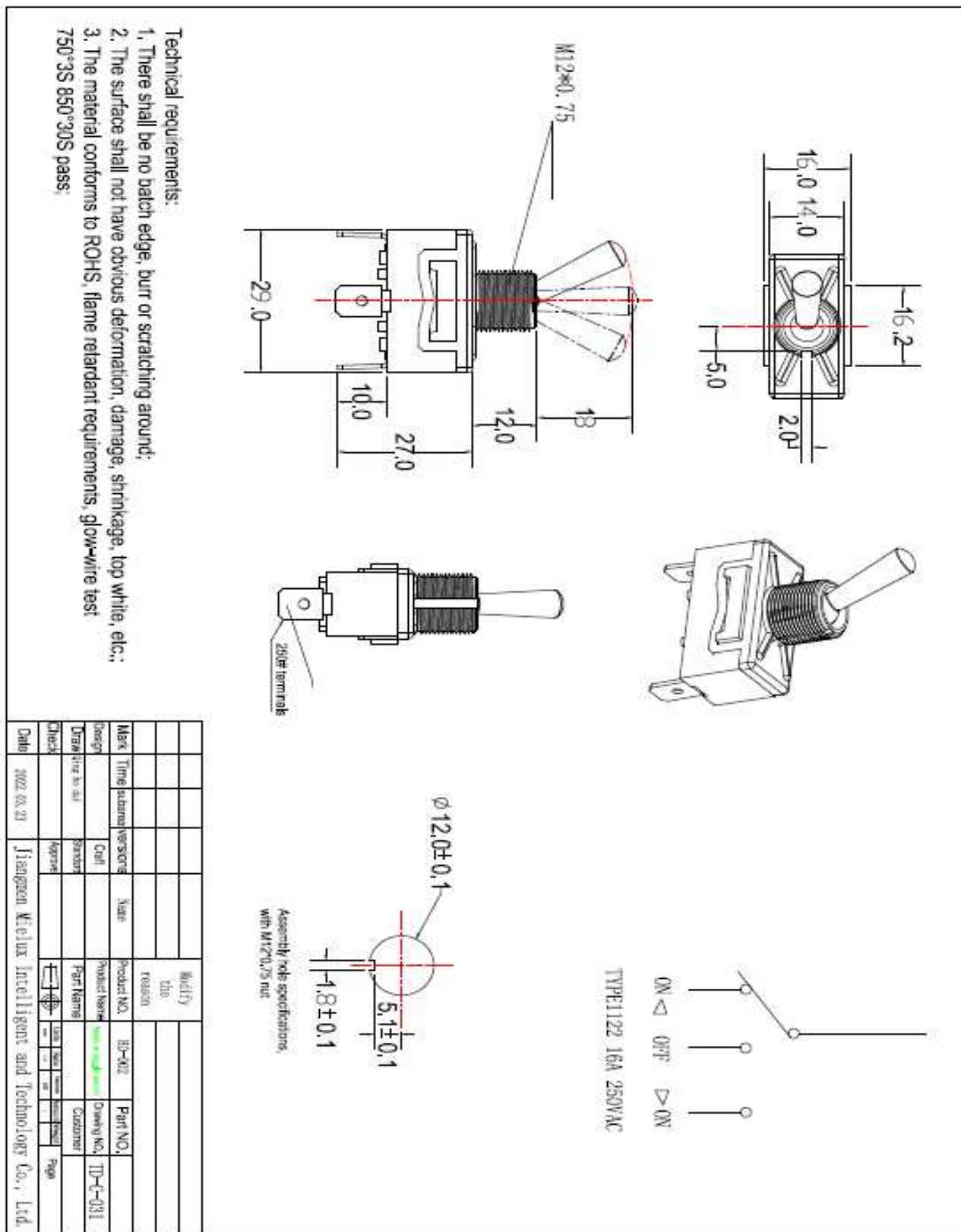
ON ▷ ▷ OFF

Assembly hole specifications, with M12*0.75 nut.

250# terminals

7.0 Illustrations

Illustration 6a - Drawing of Toggle Switch 1, type BD-002



7.0 Illustrations

Illustration 7 - Model Similarity

Model GCF20D is identical with EM3101, except the model name.
Model PE3680U is identical with EM3102, except the model name.
Model GCF20E is identical with EM3202, except the model name.

EM3102 is identical with EM3101, except different top cover shape, control pcb, and EM3102 is button control type while EM3101 is touch control type, EM3102 has pressure meter while EM3101 don't have.

EM3201 is identical with EM3102, except different assembly method, enclosure shape, power pcb, control pcb and EM3102 is button control type while EM3201 is touch control type.

EM3201A is identical with EM3201, except deleted the pressure meter.

EM3202 is identical with EM3201, except different control pcb, enclosure shape, and EM3202 is button control type while EM3201 is touch control type, EM3202 has display window while EM3201 don't have, EM3202's top cover don't wrap stainless decoration while EM3201 has. EM3202 has manual coffee function while EM3201 don't have.

EM3203 is identical with EM3202, except different power pcb, enclosure shape and appearance, and EM3203 don't have control pcb and display window, only EM3203's base have half wrapping stainless decoration, EM3203 deleted one cup coffee and two cup coffee function, EM3203 has rocker switch while EM3202 has push button for switching, EM3203 has pressure meter while EM3202 don't have.

EM3203A is identical with EM3202, except different control pcb, enclosure shape and appearance, and EM3203A don't have display window, only EM3203A's base have half wrapping stainless decoration. EM3203A's enclosure shape is similar to EM3203's.

EM3206 is identical with EM3202, except different control pcb, appearance, and EM3206 added pressure meter, deleted display window and deleted manual coffee function.

EM3207 is identical with EM3202, except different control pcb, appearance, and EM3207 is button and touch control type while EM3202 is only button control type.

EM3102T, EM3203T, EM3206T are identical with EM3102, EM3203, EM3206 respectively, except the pressure meter is changed to temperature meter.



EM3201P, EM3202P, EM3206P, EM3207P are identical with EM3201, EM3202, EM3206, EM3207 respectively, except deleted Main housing's stainless decoration and changed base's stainless decoration from whole wrapping to half wrapping.

Models EM3101, EM3102, EM3102T, EM3201, EM3201P, EM3201A, EM3202, EM3202P, EM3203, EM3203T, EM3203A, EM3206, EM3206P, EM3206T, EM3207, EM3207P with brand name "Mielux".

Models GCF20D, GCF20E with brand name "Geek Chef".
Model PE3680U with brand name "NERETVA".

8.0 Test Summary			
Evaluation Period	24-Jan-2022 ~ 24-May-2022		Project No. 220124151GZU
Sample Rec. Date	24-Jan-2022	Condition Prototype	Sample ID. S220124151-001~031
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch (Address: Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City, GETDD Guangzhou, Guangdong, China).		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 1082:2009 Ed.6+R:28Sep2017 / clause	UL 746C:2018 Ed.7+R:20Apr2020 / clause	CSA C22.2#60335-1:2016 Ed.2 & (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1] / Clause
Power Input	30	-	-
Leakage Current Test	31	-	-
Operational Tests	32	-	-
Normal Temperature Tests	33	-	-
Leakage Current as a Result of Moisture Tests	34	-	-
Dielectric Voltage-Withstand Test	35	-	-
Strain Relief Test	37	-	-
Push-Back Relief Test	38	-	-
Metal Enclosure Impact Tests	39	-	-
Stability Test	44	-	-
Hydrostatic Pressure Tests for Parts Subject to Pressure	46A	-	-
Abnormal Operation Tests	47	-	-
Component Failure Test	48	-	-
Automatic Controls Test	49	-	-
Strain-Relief Test after Mold Stress-Relief Distortion	-	31	-
Resistance to Impact Test	-	56	-
Mold Stress-relief Distortion Test	-	61	-
Marking Test	-	-	7.14
Protection Against Access to Live Parts	-	-	8.1
Power Input and Current	-	-	10
Heating	-	-	11
Leakage Current and Electric Strength at Operating Temperature	-	-	13
Moisture Resistance	-	-	15
Leakage Current and Electric Strength	-	-	16
Abnormal Operation – Restricted Heat Dissipation & Overload Test	-	-	19.2 & 19.3
Abnormal Operation - Thermostat Short-Circuited Test	-	-	19.4
Abnormal Operation - Fault Conditions of Electronic Circuit	-	-	19.11
Receiving container incorrectly positioned or removed	-	-	19.103
Stability and Mechanical Hazards	-	-	20
Mechanical Strength	-	-	21
Construction	-	-	22
Internal Wiring	-	-	23

8.0 Test Summary			
Supply connection and external flexible cords	-	-	25
Creepage Distance and Clearance	-	-	29
Resistance to heat and fire	-	-	30
Test Description	UL 61058-1:2017 Ed.5+R:30Jun2021 & CSA C22.2#61058-1:2017 Ed.5+U1 / clause	-	-
Insulation resistance and dielectric strength	15	-	-
Heating	16	-	-
Endurance	17	-	-
Mechanical strength	18	-	-

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Mandy Luo	Reviewed by:	Benson Li
Title:	Project Engineer	Title:	Sr. Tech. Supervisor
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Jiangmen Mielux Intelligent and Technology Co., Ltd.
Address	Tongle Road, #13, Tangxia Town, Pengjiang District, Jiangmen, Guangdong 529000
Country	China
Product	Espresso Coffee Machine

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:

Intertek Testing Services Shenzhen Limited Guangzhou Branch

ETL Component Evaluation Center

Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2,
Caipin Road, Science City

GETDD Guangzhou, Guangdong, China

Attn: Ms. Joey Kuang

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test

Polarization Test

11.1 Dielectric Voltage Withstand Test**Method**

One hundred percent of production of the products covered by this Report shall be subjected to a routine production-line dielectric withstand test.

The test shall be conducted on products which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test potential specified below shall be applied between primary wiring, including connected components, and accessible metal parts that are likely to become energized, and between primary wiring and accessible low voltage (42.4 V peak or less) metal parts, including terminals. The test potential may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

The appliance may be in a heated or unheated condition for the test.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either: 1 - a voltmeter in the primary circuit; 2 - a selector switch marked to indicate the test potential; or 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output. In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

11.2 Polarization Test**Method**

As a routine production-line verification, each cord-connected appliance provided with a 2-wire polarized or 3-wire grounding attachment plug, shall be examined or tested for electrical continuity between the ungrounded circuit supply conductor of the attachment plug and all components intended to be connected to the ungrounded conductor. If the continuity cannot be readily determined by visual inspection and component checking, an electrical continuity test is to be conducted.

Any indicating device such as an ohmmeter, a battery-and-buzzer combination, or the like, shall be used to determine compliance with the continuity requirements mentioned above.

Products Requiring Polarization Test:

All products covered by this Report.

