Client Name : AROVAST CORPORATION

Client Address : 1202 N. MILLER ST. SUITE A, ANAHEIM, CA 92806, USA

Sample Name :	Rice Cooker
Tested Basic Model No. (P.O. No.) :	CRC-R501-KEU
Client Ref. Info. :	CRC-R501-KUK, CRC-R501 may be followed by `-` and up to four characters

The above sample(s) and information were provided by the client.

SGS Job No. :	RP23-004085 - SZ
Date of Sample Received :	08 Mar 2023
Verification Period :	08 Mar 2023 - 12 Apr 2023
Verification Requested :	With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
Verification Method(s) :	Please refer to next page(s).
Verification Result(s) :	Please refer to next page(s).

Test Result Summary

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Andy Ni
Approved Signatory

scan to see the report
3978B9DC

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Photo of Submitted Sample



Verification Method(s) :

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
(1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
(2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Verification Part Description :

SN ID	Sample No	SGS Sample ID	Description
SN1	A1	SZX23-003880.001	White plastic part
SN2	A2	SZX23-003880.002	Translucent plastic part
SN3	A3	SZX23-003880.003	White plastic part
SN4	A4	SZX23-003880.004	Silvery metal part
SN5	A5	SZX23-003880.005	Silvery metal part
SN6	A6	SZX23-003880.006	Black soft plastic part
SN7	A7	SZX23-003880.007	Black plastic (cable jacket)

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SN ID	Sample No	SGS Sample ID	Description
SN8	A8	SZX23-003880.008	Black soft plastic part
SN9	A9	SZX23-003880.009	Brown plastic (wire insulation)
SN10	A10	SZX23-003880.010	Yellow plastic (wire insulation) with green printing
SN11	A11	SZX23-003880.011	Blue plastic (wire insulation)
SN12	A12	SZX23-003880.012	White plastic part
SN13	A13	SZX23-003880.013	White plastic part
SN14	A14	SZX23-003880.014	Coppery metal part
SN15	A15	SZX23-003880.015	Black plastic part
SN16	A16	SZX23-003880.016	Silvery metal part
SN17	A17	SZX23-003880.017	Silvery metal part
SN18	A18	SZX23-003880.018	Black soft plastic part
SN19	A19	SZX23-003880.019	Black plastic cover
SN20	A20	SZX23-003880.020	Black plastic part
SN21	A21	SZX23-003880.021	Silvery metal part
SN22	A22	SZX23-003880.022	Silvery metal part
SN23	A23	SZX23-003880.023	White plastic part
SN24	A24	SZX23-003880.024	Golden metal part
SN25	A25	SZX23-003880.025	Silvery metal part
SN26	A26	SZX23-003880.026	Black plastic shell
SN27	A27	SZX23-003880.027	Silvery plastic label with black printing
SN28	A28	SZX23-003880.028	Silvery plating
SN29	A29	SZX23-003880.029	Black plastic shell
SN30	A30	SZX23-003880.030	Transparent plastic sheet with multi-color printing
SN31	A31	SZX23-003880.031	Black plastic part
SN32	A32	SZX23-003880.032	Orange plastic part
SN33	A33	SZX23-003880.033	Silvery metal spring
SN34	A34	SZX23-003880.034	Black plastic part
SN35	A35	SZX23-003880.035	Silvery metal spring
SN36	A36	SZX23-003880.036	Silvery metal spring

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SN ID	Sample No	SGS Sample ID	Description
SN37	A37	SZX23-003880.037	Cream plastic part
SN38	A38	SZX23-003880.038	Silvery metal spring
SN39	A39	SZX23-003880.039	Black plastic part
SN40	A40	SZX23-003880.040	Silvery metal shaft
SN41	A41	SZX23-003880.041	Gray soft plastic part
SN42	A42	SZX23-003880.042	Silvery metal plate
SN43	A43	SZX23-003880.043	Black plastic part
SN44	A44	SZX23-003880.044	Silvery metal spring with golden surface
SN45	A45	SZX23-003880.045	Black plastic part
SN46	A46	SZX23-003880.046	Orange plastic part
SN47	A47	SZX23-003880.047	Gray plastic part
SN48	A48	SZX23-003880.048	Gray soft plastic part
SN49	A49	SZX23-003880.049	Silvery metal screw
SN50	A50	SZX23-003880.050	Gray soft plastic part
SN51	A51	SZX23-003880.051	Gray soft plastic part
SN52	A52	SZX23-003880.052	Gray soft plastic part
SN53	A53	SZX23-003880.053	Silvery metal cover
SN54	A54	SZX23-003880.054	Black plastic part
SN55	A55	SZX23-003880.055	Black plastic (wire insulation)
SN56	A56	SZX23-003880.056	Yellow plastic (wire insulation) with green printing
SN57	A57	SZX23-003880.057	Red plastic (wire insulation)
SN58	A58	SZX23-003880.058	Black plastic heat shrinkable tube with white printing
SN59	A59	SZX23-003880.059	Black plastic (wire insulation)
SN60	A60	SZX23-003880.060	Silvery metal screw
SN61	A61	SZX23-003880.061	Silvery metal part
SN62	A62	SZX23-003880.062	Silvery metal plate
SN63	A63	SZX23-003880.063	Silvery metal pin
SN64	A64	SZX23-003880.064	Black dry glue
SN65	A65	SZX23-003880.065	Silvery metal pin

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SN ID	Sample No	SGS Sample ID	Description
SN66	A66	SZX23-003880.066	Silvery metal screw
SN67	A67	SZX23-003880.067	Silvery metal pin
SN68	A68	SZX23-003880.068	Silvery metal washer
SN69	A69	SZX23-003880.069	Silvery foil
SN70	A70	SZX23-003880.070	Brown plastic (wire insulation)
SN71	A71	SZX23-003880.071	Translucent soft plastic tube
SN72	A72	SZX23-003880.072	Cream double side glue
SN73	A73	SZX23-003880.073	White dry glue
SN74	A74	SZX23-003880.074	Silvery metal pin
SN75	A75	SZX23-003880.075	Silvery metal nut
SN76	A76	SZX23-003880.076	Silvery metal part with gray coating
SN77	A77	SZX23-003880.077	Silvery metal screw
SN78	A78	SZX23-003880.078	Black plastic shell
SN79	A79	SZX23-003880.079	Gray soft plastic part
SN80	A80	SZX23-003880.080	Black plastic cover
SN81	A81	SZX23-003880.081	Silvery metal screw
SN82	A82	SZX23-003880.082	Black plastic part
SN83	A83	SZX23-003880.083	Black plastic part
SN84	A84	SZX23-003880.084	Silvery metal part
SN85	A85	SZX23-003880.085	Cream material
SN86	A86	SZX23-003880.086	Brown soft plastic part
SN87	A87	SZX23-003880.087	Silvery metal screw
SN88	A88	SZX23-003880.088	Silvery metal screw
SN89	A89	SZX23-003880.089	Silvery metal part
SN90	A90	SZX23-003880.090	Brown soft plastic part
SN91	A91	SZX23-003880.091	Silvery metal washer
SN92	A92	SZX23-003880.092	Silvery metal washer
SN93	A93	SZX23-003880.093	Red fiber
SN94	A94	SZX23-003880.094	Red fiber
SN95	A95	SZX23-003880.095	White fiber

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SN ID	Sample No	SGS Sample ID	Description
SN96	A96	SZX23-003880.096	Yellow & green fiber
SN97	A97	SZX23-003880.097	Blue fiber
SN98	A98	SZX23-003880.098	Blue fiber
SN99	A99	SZX23-003880.099	White fiber
SN100	A100	SZX23-003880.100	Translucent plastic part
SN101	A101	SZX23-003880.101	Silvery metal pin
SN102	A102	SZX23-003880.102	White plastic (wire insulation) with red printing
SN103	A103	SZX23-003880.103	White plastic (wire insulation)
SN104	A104	SZX23-003880.104	White plastic (wire insulation)
SN105	A105	SZX23-003880.105	Golden metal pin
SN106	A106	SZX23-003880.106	Brown soft plastic part
SN107	A107	SZX23-003880.107	Silvery metal pin
SN108	A108	SZX23-003880.108	Silvery metal pin
SN109	A109	SZX23-003880.109	Black plastic part
SN110	A110	SZX23-003880.110	Silvery metal screw
SN111	A111	SZX23-003880.111	White plastic (wire insulation) with pink printing
SN112	A112	SZX23-003880.112	White plastic part
SN113	A113	SZX23-003880.113	Silvery metal pin
SN114	A114	SZX23-003880.114	White plastic part
SN115	A115	SZX23-003880.115	Black plastic part
SN116	A116	SZX23-003880.116	White plastic part
SN117	A117	SZX23-003880.117	Silvery metal part
SN118	A118	SZX23-003880.118	Black plastic sheet with white printing
SN119	A119	SZX23-003880.119	Green plastic sheet with white printing
SN120	A120	SZX23-003880.120	Black plastic sheet with white printing
SN121	A121	SZX23-003880.121	Black rubber stopper
SN122	A122	SZX23-003880.122	Black rubber stopper
SN123	A123	SZX23-003880.123	Black plastic part
SN124	A124	SZX23-003880.124	Yellow plastic adhesive tape

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SN ID	Sample No	SGS Sample ID	Description
SN125	A125	SZX23-003880.125	Black plastic shell with cream printing
SN126	A126	SZX23-003880.126	Black plastic cover
SN127	A127	SZX23-003880.127	Black dry glue
SN128	A128	SZX23-003880.128	Coppery metal part
SN129	A129	SZX23-003880.129	Golden metal part
SN130	A130	SZX23-003880.130	Coppery metal part
SN131	A131	SZX23-003880.131	Silvery metal shaft
SN132	A132	SZX23-003880.132	Silvery metal plate
SN133	A133	SZX23-003880.133	Silvery metal plate
SN134	A134	SZX23-003880.134	Silvery metal pin
SN135	A135	SZX23-003880.135	Blue capacitor body
SN136	A136	SZX23-003880.136	Yellow plastic shell with black printing
SN137	A137	SZX23-003880.137	Transparent plastic sheet
SN138	A138	SZX23-003880.138	Yellow dry glue
SN139	A139	SZX23-003880.139	Cream plastic part
SN140	A140	SZX23-003880.140	Black diode body
SN141	A141	SZX23-003880.141	Black body
SN142	A142	SZX23-003880.142	Silvery metal solder
SN143	A143	SZX23-003880.143	Green "PCB"
SN144	A144	SZX23-003880.144	Black body
SN145	A145	SZX23-003880.145	Silvery metal part
SN146	A146	SZX23-003880.146	Silvery metal part
SN147	A147	SZX23-003880.147	Gray plastic frame
SN148	A148	SZX23-003880.148	Silvery metal spring
SN149	A149	SZX23-003880.149	White dry glue
SN150	A150	SZX23-003880.150	Pink plastic part
SN151	A151	SZX23-003880.151	Silvery metal part
SN152	A152	SZX23-003880.152	Silvery metal part
SN153	A153	SZX23-003880.153	Cream material
SN154	A154	SZX23-003880.154	Silvery metal wire

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SN ID	Sample No	SGS Sample ID	Description
SN155	A155	SZX23-003880.155	Silvery metal part
SN156	A156	SZX23-003880.156	Red dry glue
SN157	A157	SZX23-003880.157	Silvery metal part
SN158	A158	SZX23-003880.158	Silvery plastic label with black printing
SN159	A159	SZX23-003880.159	Silvery metal part
SN160	A160	SZX23-003880.160	Black plastic shell
SN161	A161	SZX23-003880.161	Silvery metal spring
SN162	A162	SZX23-003880.162	Gray plastic cover
SN163	A163	SZX23-003880.163	White plastic part with black printing
SN164	A164	SZX23-003880.164	Black plastic shell
SN165	A165	SZX23-003880.165	Black plastic cover
SN166	A166	SZX23-003880.166	Golden metal plate
SN167	A167	SZX23-003880.167	Silvery metal pin
SN168	A168	SZX23-003880.168	Translucent dry glue
SN169	A169	SZX23-003880.169	Silvery metal solder
SN170	A170	SZX23-003880.170	Black "PCB"
SN171	A171	SZX23-003880.171	Black body
SN172	A172	SZX23-003880.172	Silvery metal solder
SN173	A173	SZX23-003880.173	Black body
SN174	A174	SZX23-003880.174	Black body
SN175	A175	SZX23-003880.175	Green "PCB"
SN176	A176	SZX23-003880.176	Light gray soft plastic part
SN177	A177	SZX23-003880.177	Black plastic heat shrinkable tube with white printing
SN178	A178	SZX23-003880.183	Silvery metal pin

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Verification Results :

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	ND	BL	BL	BL
PBBs	BL	BL	BL	---	---	BL	BL	BL
PBDEs	BL	BL	BL	---	---	BL	BL	BL
DBP	BL	BL	BL	---	---	ND	ND	ND
BBP	BL	BL	BL	---	---	ND	ND	ND
DEHP	BL	BL	BL	---	---	ND	ND	ND
DIBP	BL	BL	BL	---	---	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	ND	ND	---	ND	---
PBDEs	BL	BL	BL	ND	ND	---	ND	---
DBP	ND	ND	ND	BL	BL	---	BL	---
BBP	ND	ND	ND	BL	BL	---	BL	---
DEHP	ND	ND	ND	BL	BL	---	BL	---
DIBP	ND	ND	ND	BL	BL	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	<40000▲	BL	BL	BL	<40000▲	<40000▲	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	ND	ND	---	---	ND	---

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Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
PBDEs	---	BL	ND	652	---	---	ND	---
DBP	---	ND	BL	BL	---	---	BL	---
BBP	---	ND	BL	BL	---	---	BL	---
DEHP	---	ND	BL	BL	---	---	BL	---
DIBP	---	ND	BL	BL	---	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	ND	BL	BL	ND	BL	BL	BL	BL
PBBs	---	BL	BL	---	BL	BL	BL	BL
PBDEs	---	BL	BL	---	BL	BL	BL	BL
DBP	---	BL	<600*	---	BL	BL	BL	BL
BBP	---	BL	<600*	---	BL	BL	BL	BL
DEHP	---	BL	<600*	---	BL	BL	BL	BL
DIBP	---	BL	<600*	---	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	ND	BL	ND	ND	BL	ND	BL	ND
PBBs	---	BL	---	---	BL	---	BL	---
PBDEs	---	BL	---	---	BL	---	BL	---
DBP	---	BL	---	---	BL	---	BL	---
BBP	---	BL	---	---	BL	---	BL	---
DEHP	---	BL	---	---	BL	---	BL	---
DIBP	---	BL	---	---	BL	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

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Test Item(s)	A41	A42	A43	A44	A45	A46	A47	A48
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	ND	BL	ND	BL	BL	BL	BL
PBBs	BL	---	BL	---	ND	BL	BL	BL
PBDEs	BL	---	BL	---	ND	BL	BL	BL
DBP	BL	---	BL	---	BL	BL	BL	BL
BBP	BL	---	BL	---	BL	BL	BL	BL
DEHP	BL	---	BL	---	BL	BL	BL	BL
DIBP	BL	---	BL	---	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	ND	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	BL	BL	---	BL	BL	BL
PBDEs	---	BL	BL	BL	---	BL	BL	BL
DBP	---	ND	BL	BL	---	BL	<600*	ND
BBP	---	ND	BL	BL	---	BL	<600*	ND
DEHP	---	ND	BL	BL	---	BL	<600*	ND
DIBP	---	ND	BL	BL	---	BL	<600*	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A57	A58	A59	A60	A61	A62	A63	A64
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	ND	ND	ND	BL	BL
PBBs	BL	ND	BL	---	---	---	---	BL
PBDEs	BL	ND	BL	---	---	---	---	BL
DBP	ND	<600*	<600*	---	---	---	---	<600*
BBP	ND	<600*	<600*	---	---	---	---	<600*
DEHP	ND	<600*	<600*	---	---	---	---	<600*
DIBP	ND	<600*	<600*	---	---	---	---	<600*

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Test Item(s)	A57	A58	A59	A60	A61	A62	A63	A64
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A65	A66	A67	A68	A69	A70	A71	A72
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	---	---	---	BL	BL	BL	BL
PBDEs	---	---	---	---	BL	BL	BL	BL
DBP	---	---	---	---	<600*	ND	ND	ND
BBP	---	---	---	---	<600*	ND	ND	ND
DEHP	---	---	---	---	<600*	ND	ND	ND
DIBP	---	---	---	---	<600*	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A73	A74	A75	A76	A77	A78	A79	A80
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	ND	BL	ND	BL	BL	BL
PBBs	BL	---	---	---	---	BL	BL	ND
PBDEs	BL	---	---	---	---	BL	BL	ND
DBP	<600*	---	---	---	---	BL	BL	BL
BBP	<600*	---	---	---	---	BL	BL	BL
DEHP	<600*	---	---	---	---	BL	BL	BL
DIBP	<600*	---	---	---	---	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A81	A82	A83	A84	A85	A86	A87	A88
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	ND	BL	BL	BL	BL	BL	ND	BL
PBBs	---	ND	ND	---	BL	BL	---	---
PBDEs	---	ND	ND	---	BL	BL	---	---
DBP	---	BL	BL	---	BL	ND	---	---

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Test Item(s)	A81	A82	A83	A84	A85	A86	A87	A88
BBP	---	BL	BL	---	BL	ND	---	---
DEHP	---	BL	BL	---	BL	ND	---	---
DIBP	---	BL	BL	---	BL	ND	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A89	A90	A91	A92	A93	A94	A95	A96
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	ND	BL	BL	BL	BL	BL
PBBs	---	BL	---	---	BL	BL	BL	BL
PBDEs	---	BL	---	---	BL	BL	BL	BL
DBP	---	ND	---	---	BL	BL	BL	<600*
BBP	---	ND	---	---	BL	BL	BL	<600*
DEHP	---	ND	---	---	BL	BL	BL	<600*
DIBP	---	ND	---	---	BL	BL	BL	<600*
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A97	A98	A99	A100	A101	A102	A103	A104
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	---	BL	BL	BL
PBDEs	BL	BL	BL	BL	---	BL	BL	BL
DBP	<600*	BL	BL	BL	---	ND	ND	ND
BBP	<600*	BL	BL	BL	---	ND	ND	ND
DEHP	<600*	BL	BL	BL	---	ND	ND	ND
DIBP	<600*	BL	BL	BL	---	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A105	A106	A107	A108	A109	A110	A111	A112
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	ND	BL	BL

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Test Item(s)	A105	A106	A107	A108	A109	A110	A111	A112
PBBs	---	BL	---	---	BL	---	BL	BL
PBDEs	---	BL	---	---	BL	---	BL	BL
DBP	---	ND	---	---	BL	---	ND	BL
BBP	---	ND	---	---	BL	---	ND	BL
DEHP	---	ND	---	---	BL	---	ND	BL
DIBP	---	ND	---	---	BL	---	ND	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A113	A114	A115	A116	A117	A118	A119	A120
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	BL	BL	---	BL	BL	BL
PBDEs	---	BL	BL	BL	---	BL	BL	BL
DBP	---	BL	BL	BL	---	BL	<600*	<600*
BBP	---	BL	BL	BL	---	BL	<600*	<600*
DEHP	---	BL	BL	BL	---	BL	<600*	<600*
DIBP	---	BL	BL	BL	---	BL	<600*	<600*
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A121	A122	A123	A124	A125	A126	A127	A128
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	ND	ND	BL	---
PBDEs	BL	BL	BL	BL	ND	ND	BL	---
DBP	ND	ND	BL	ND	BL	<600*	<600*	---
BBP	ND	ND	BL	ND	BL	<600*	<600*	---
DEHP	ND	ND	BL	ND	BL	<600*	<600*	---
DIBP	ND	ND	BL	ND	BL	<600*	<600*	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

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Test Item(s)	A129	A130	A131	A132	A133	A134	A135	A136
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	---	---	---	---	---	BL	ND
PBDEs	---	---	---	---	---	---	BL	ND
DBP	---	---	---	---	---	---	BL	<600*
BBP	---	---	---	---	---	---	BL	<600*
DEHP	---	---	---	---	---	---	BL	<600*
DIBP	---	---	---	---	---	---	BL	<600*
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A137	A138	A139	A140	A141	A142	A143	A144
Pb	BL	BL	BL	OL▲	BL	BL	BL	OL▲
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	ND	BL	ND	BL	---	ND	BL
PBDEs	BL	ND	BL	ND	BL	---	ND	BL
DBP	ND	<600*	BL	BL	<600*	---	BL	BL
BBP	ND	<600*	BL	BL	<600*	---	BL	BL
DEHP	ND	<600*	BL	BL	<600*	---	BL	BL
DIBP	ND	<600*	BL	BL	<600*	---	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A145	A146	A147	A148	A149	A150	A151	A152
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	BL	BL	BL	BL
PBBs	---	---	ND	---	BL	BL	---	---
PBDEs	---	---	ND	---	BL	BL	---	---
DBP	---	---	BL	---	ND	ND	---	---
BBP	---	---	BL	---	ND	ND	---	---
DEHP	---	---	BL	---	ND	ND	---	---
DIBP	---	---	BL	---	ND	ND	---	---

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Test Item(s)	A145	A146	A147	A148	A149	A150	A151	A152
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A153	A154	A155	A156	A157	A158	A159	A160
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	ND	BL	BL	BL	BL	ND	BL
PBBs	BL	---	---	BL	---	BL	---	BL
PBDEs	BL	---	---	BL	---	BL	---	BL
DBP	ND	---	---	ND	---	<600*	---	BL
BBP	ND	---	---	ND	---	<600*	---	BL
DEHP	ND	---	---	ND	---	<600*	---	BL
DIBP	ND	---	---	ND	---	<600*	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A161	A162	A163	A164	A165	A166	A167	A168
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	BL	BL	BL	BL	---	---	ND
PBDEs	---	BL	BL	BL	BL	---	---	ND
DBP	---	BL	BL	<600*	BL	---	---	<600*
BBP	---	BL	BL	<600*	BL	---	---	<600*
DEHP	---	BL	BL	<600*	BL	---	---	<600*
DIBP	---	BL	BL	<600*	BL	---	---	<600*
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A169	A170	A171	A172	A173	A174	A175	A176
Pb	BL	BL	BL	BL	OL▲	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▾	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	ND	BL	---	BL	BL	ND	BL
PBDEs	---	ND	BL	---	BL	BL	ND	BL
DBP	---	BL	BL	---	BL	BL	BL	ND

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Test Item(s)	A169	A170	A171	A172	A173	A174	A175	A176
BBP	---	BL	BL	---	BL	BL	BL	ND
DEHP	---	BL	BL	---	BL	BL	BL	ND
DIBP	---	BL	BL	---	BL	BL	BL	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A177	A178
Pb	BL	BL
Cd	BL	BL
Hg	BL	BL
Cr(VI)▾	BL	BL
PBBs	BL	---
PBDEs	BL	---
DBP	ND	---
BBP	ND	---
DEHP	ND	---
DIBP	ND	---
Conclusion	PASS	PASS

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Notes：

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Annex A as below table.

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ)<X<(130+3σ)≤OL	BL≤(70-3σ)<X<(130+3σ)≤OL	LOD<X<(150+3σ)≤OL
Pb	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Br	BL ≤(300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X
Cr	BL ≤(700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is “inconclusive”.

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region)= Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs/PBDEs) are recommended to be performed.

(d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Test Items	CAS No.	Polymer/ Composite Materials
Dibutyl Phthalate (DBP)	84-74-2	BL ≤ 600< X
Benzylbutyl Phthalate (BBP)	85-68-7	BL ≤ 600< X
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL ≤ 600< X
Diisobutyl Phthalate (DIBP)	84-69-5	BL ≤ 600< X

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

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(b) Unit and MDL in wet chemical test

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg.

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10μg/cm^2.

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13μg/cm^2. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10μg/cm^2). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10μg/cm^2 and 0.13μg/cm^2 is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

(5) IEC 62321 series is equivalent to EN 62321 series.

(6) ＊ = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.

(7) ▲ = According to the declaration from the client, Lead (Pb) in No.A17, A21, A22 are exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4% lead by weight; Lead (Pb) in No.A140, A144, A173 are exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

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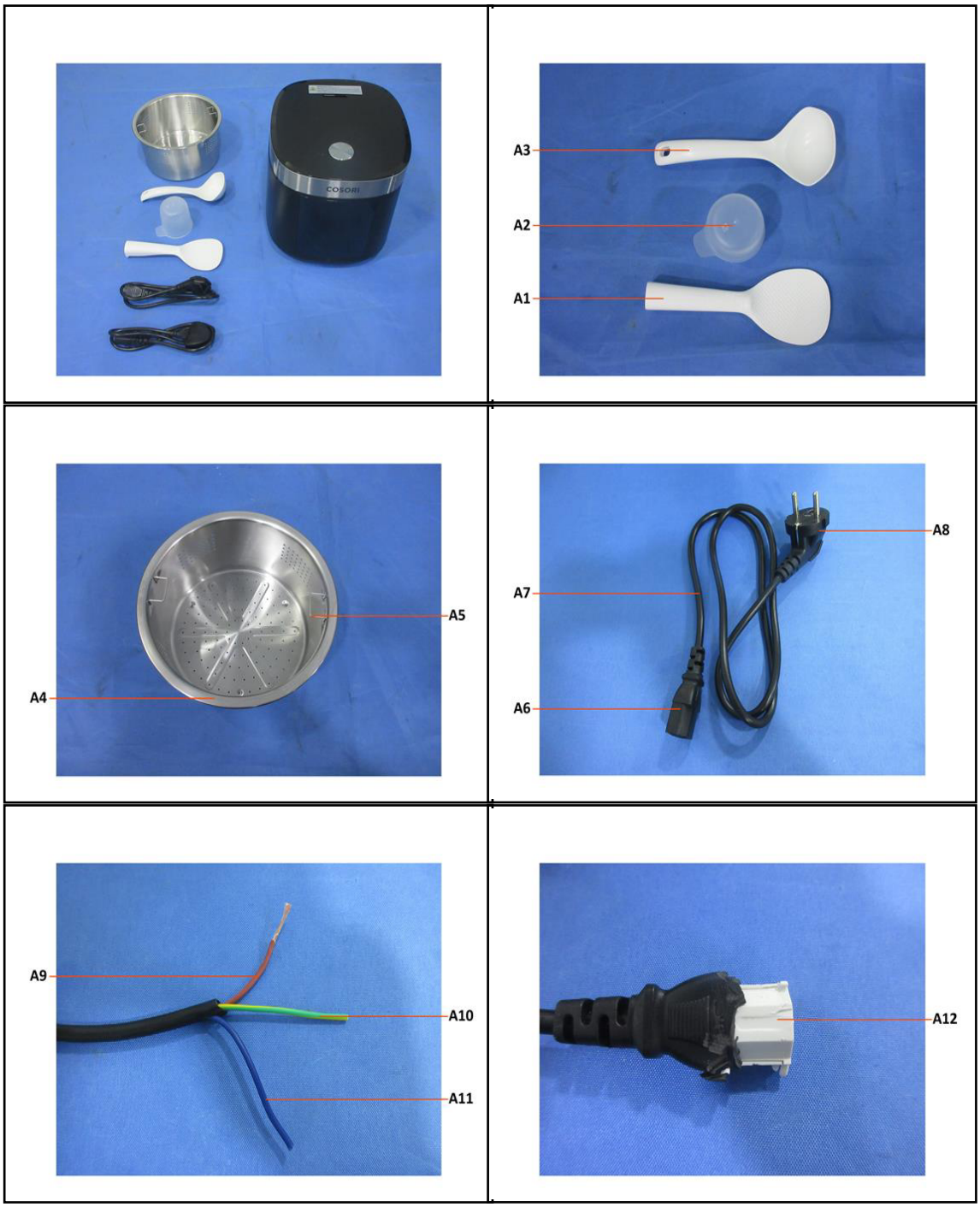

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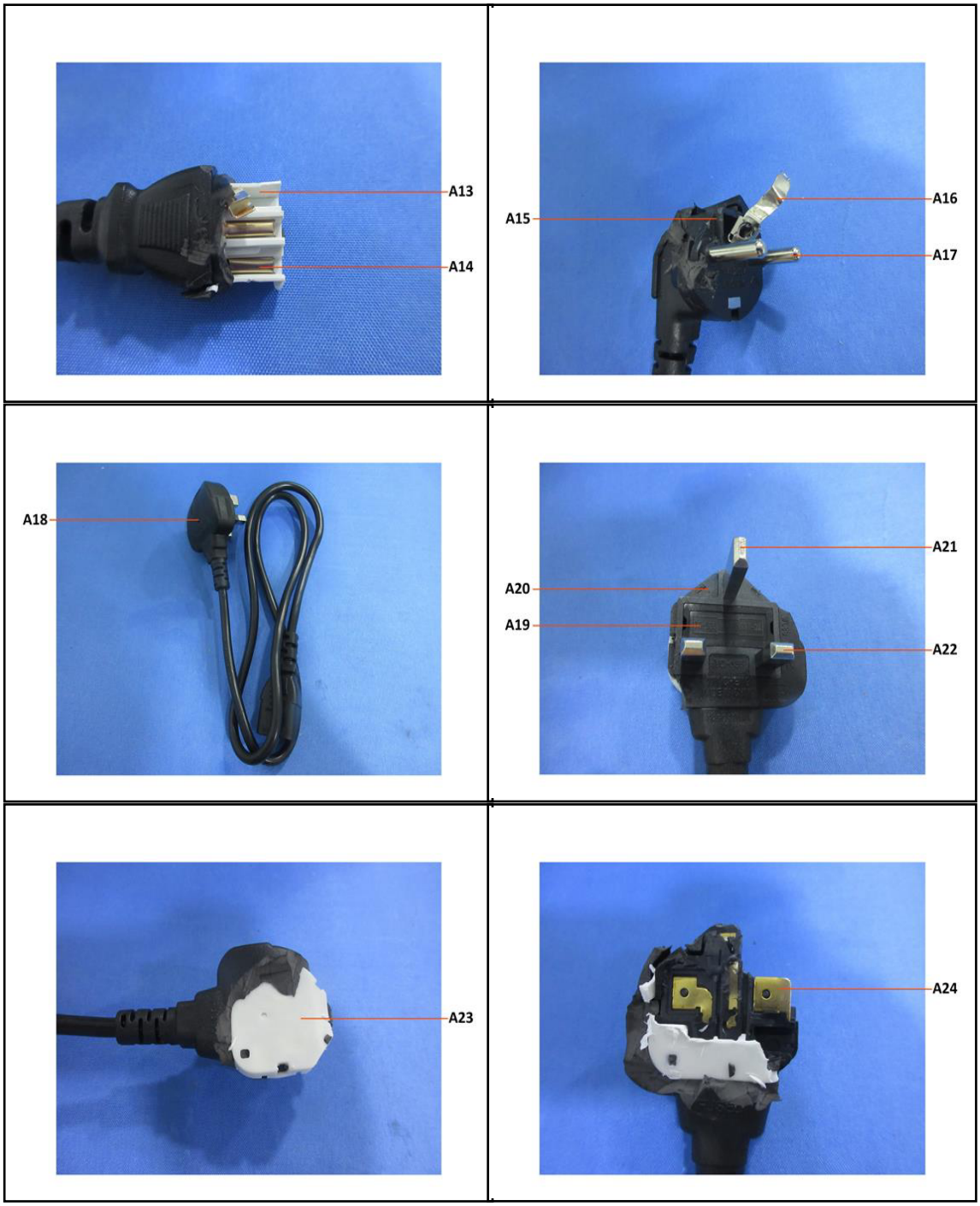

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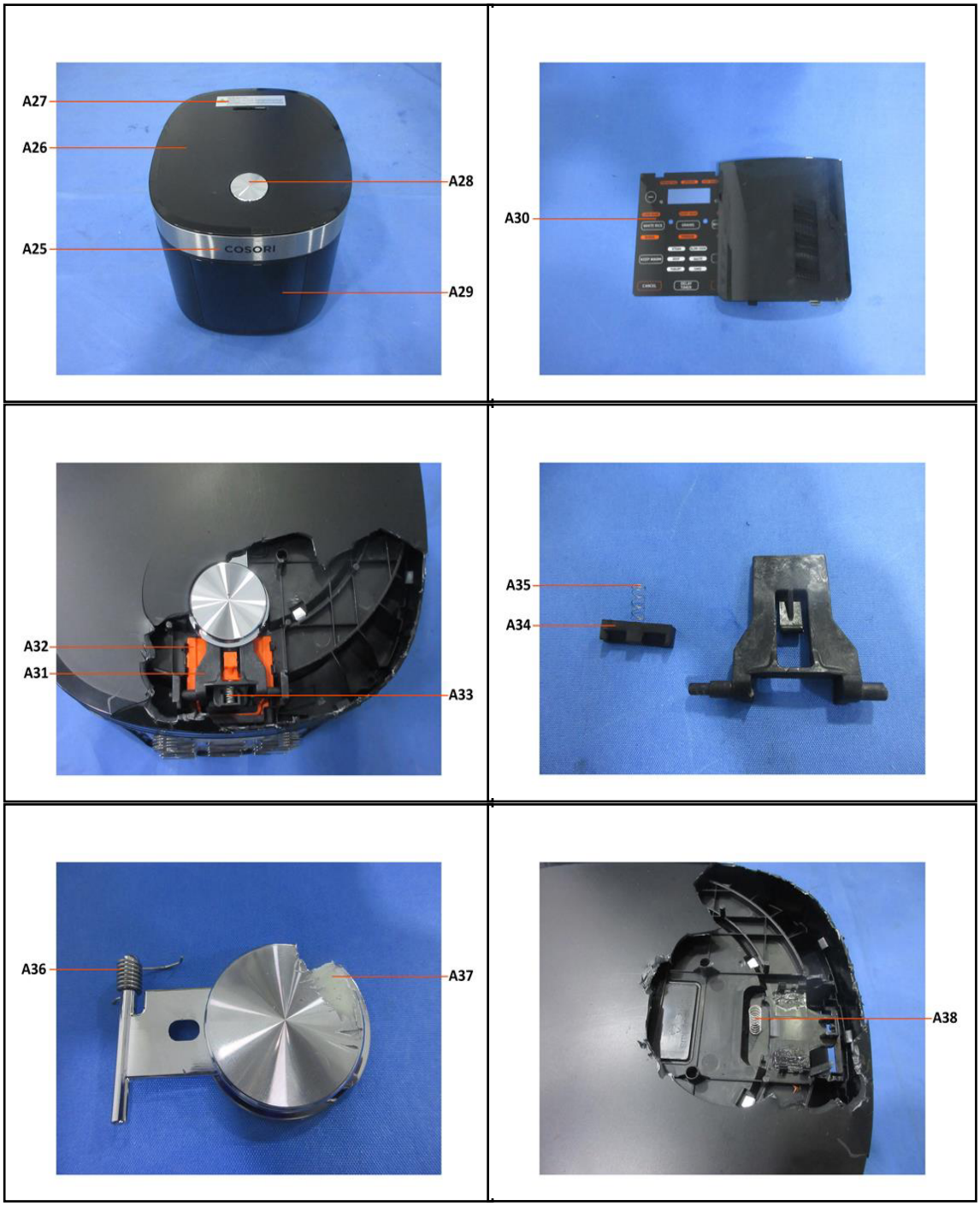

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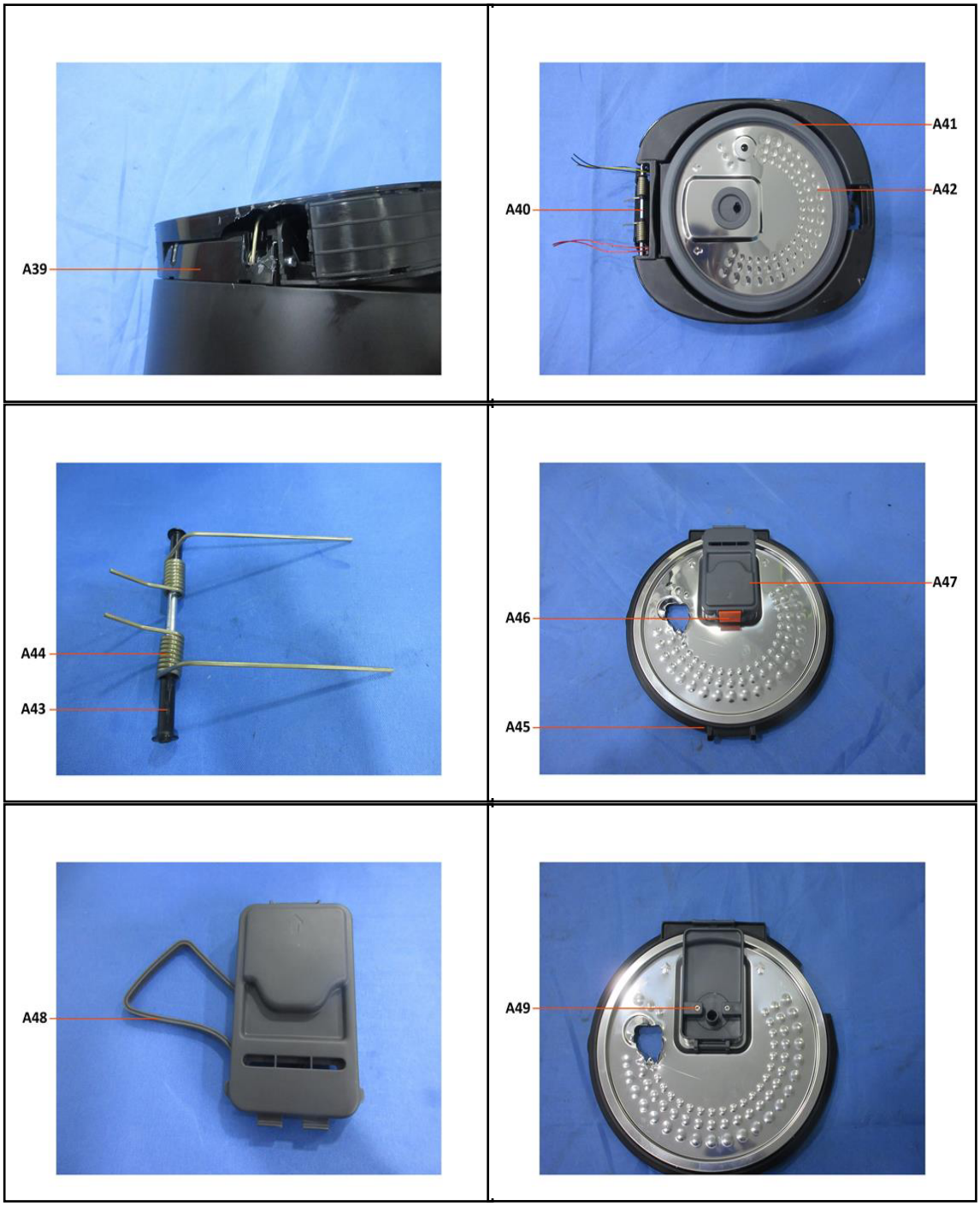

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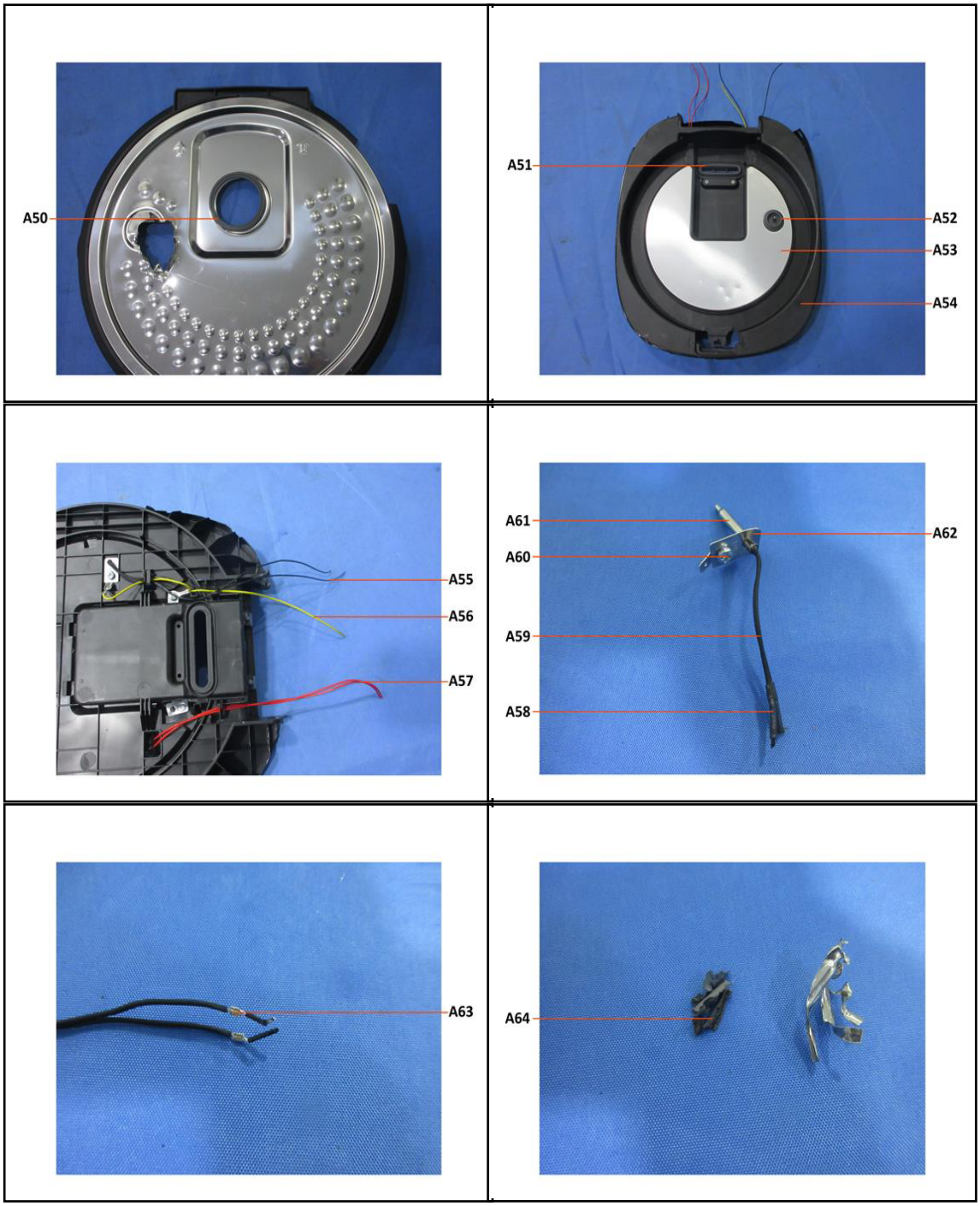

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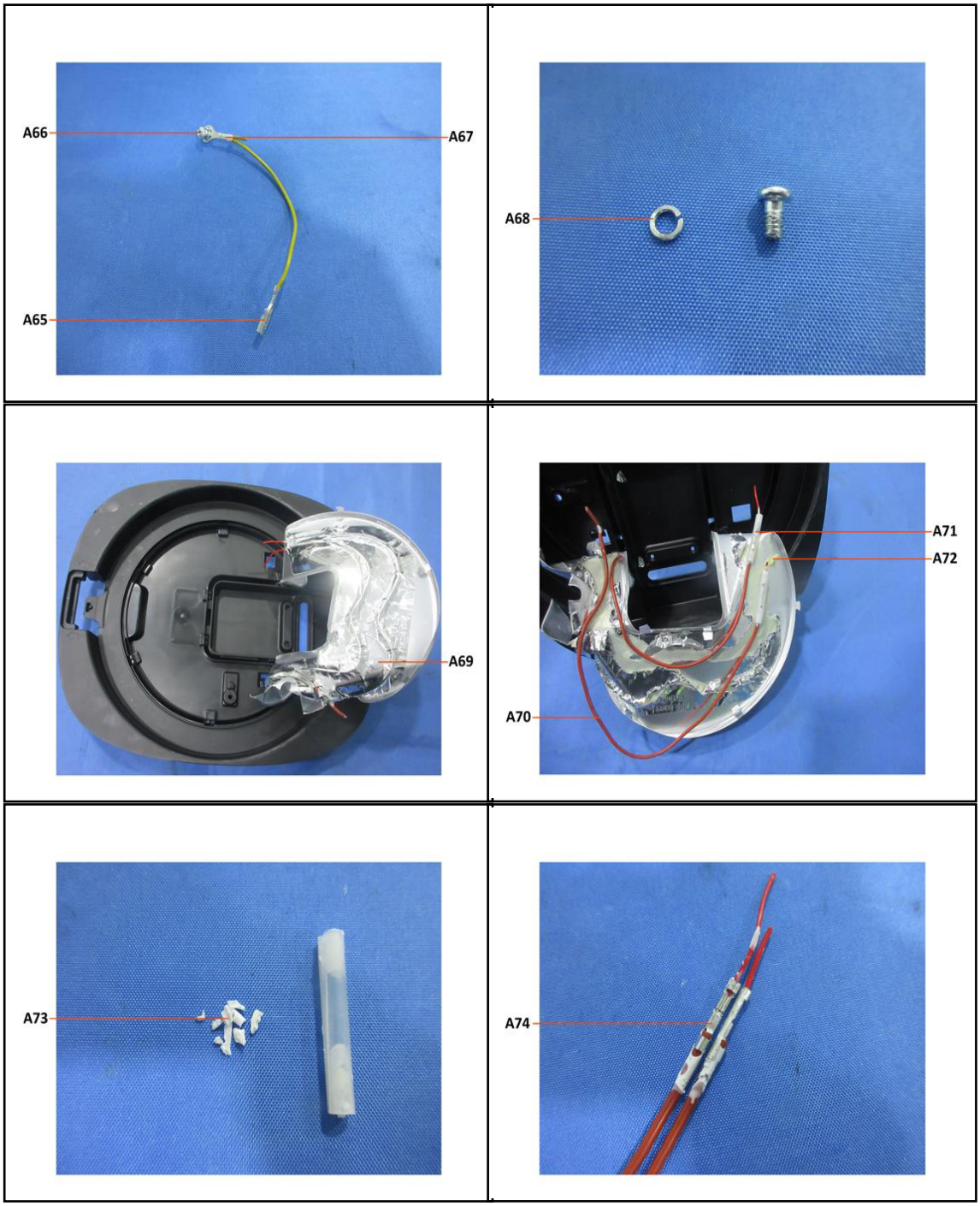

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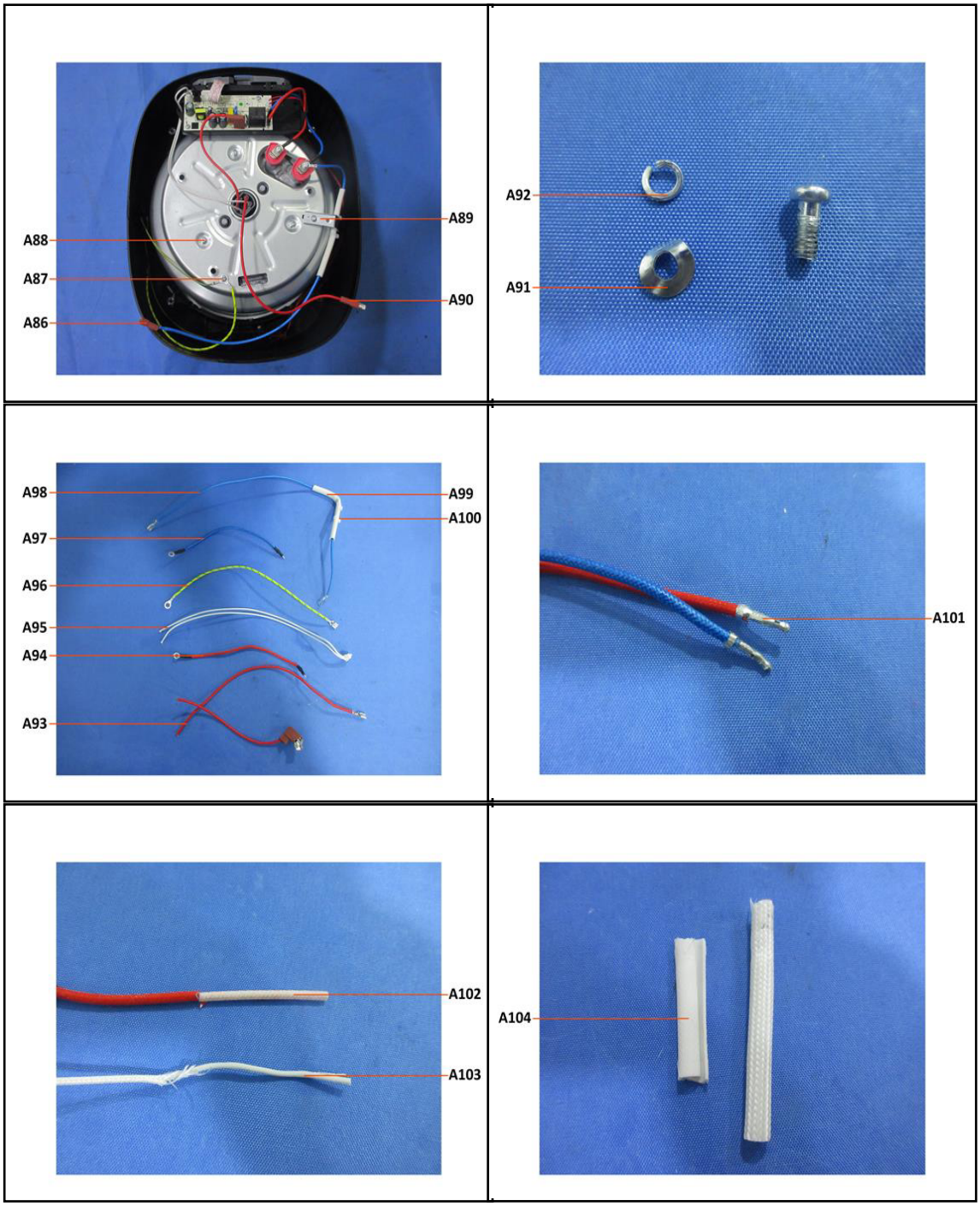

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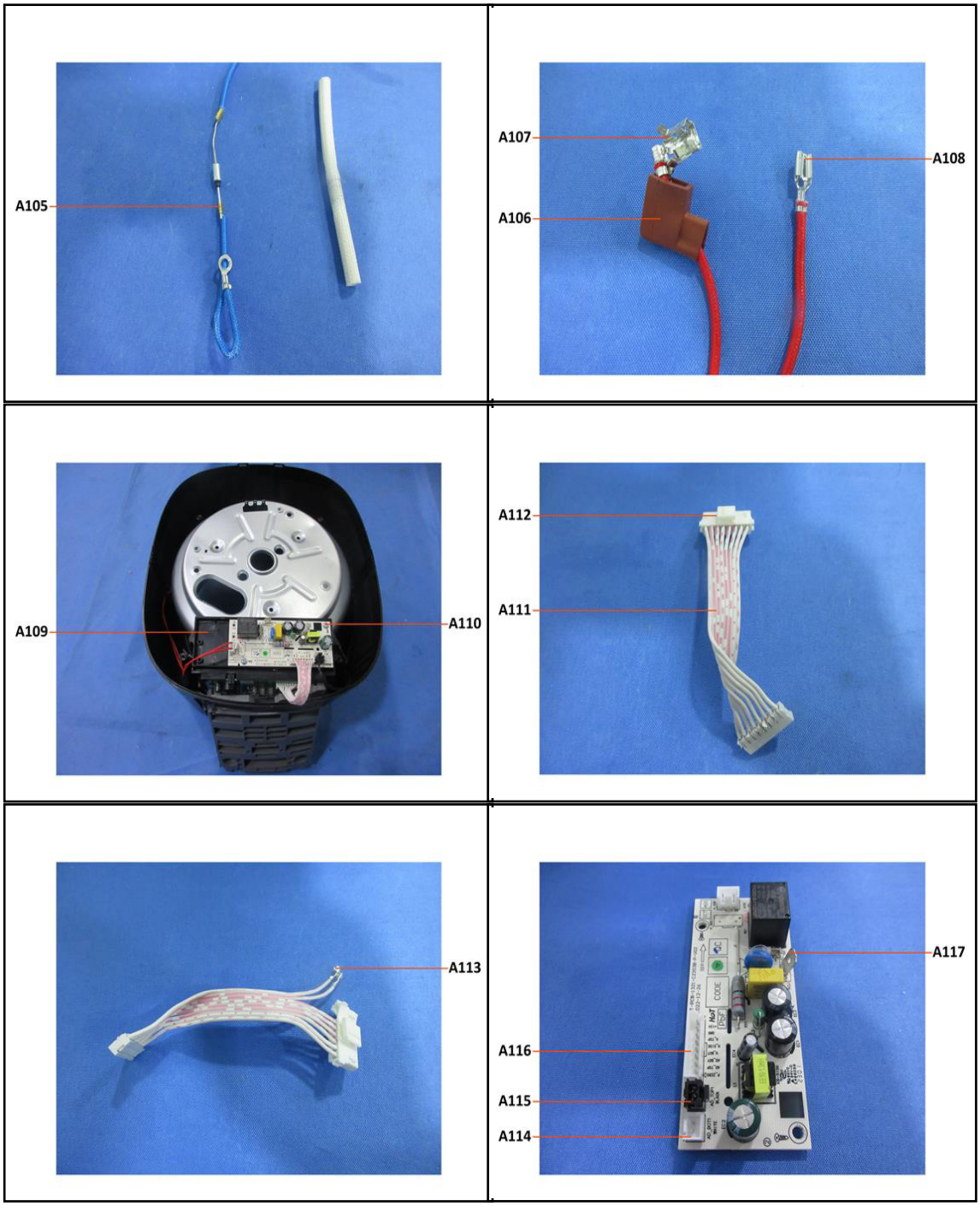

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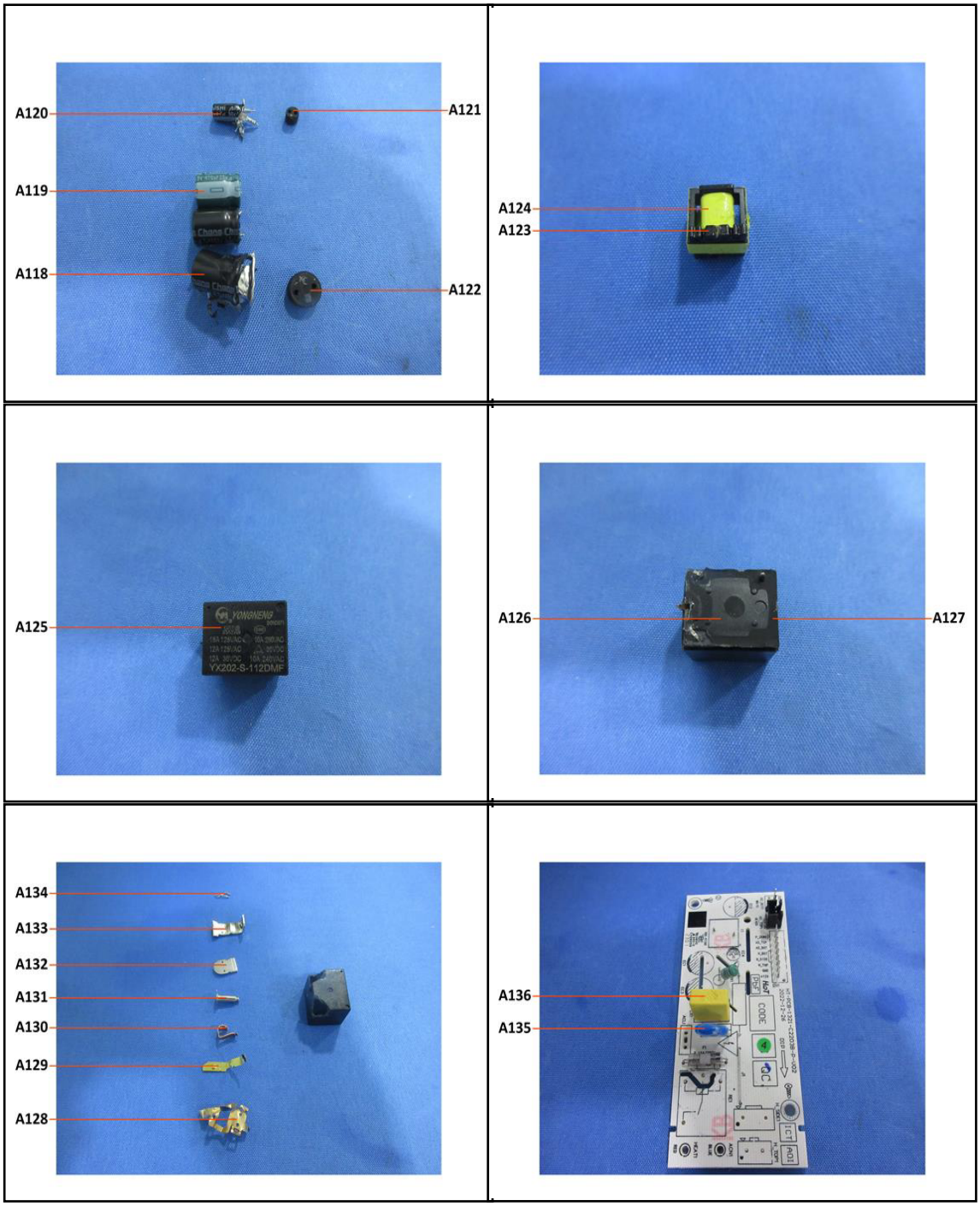

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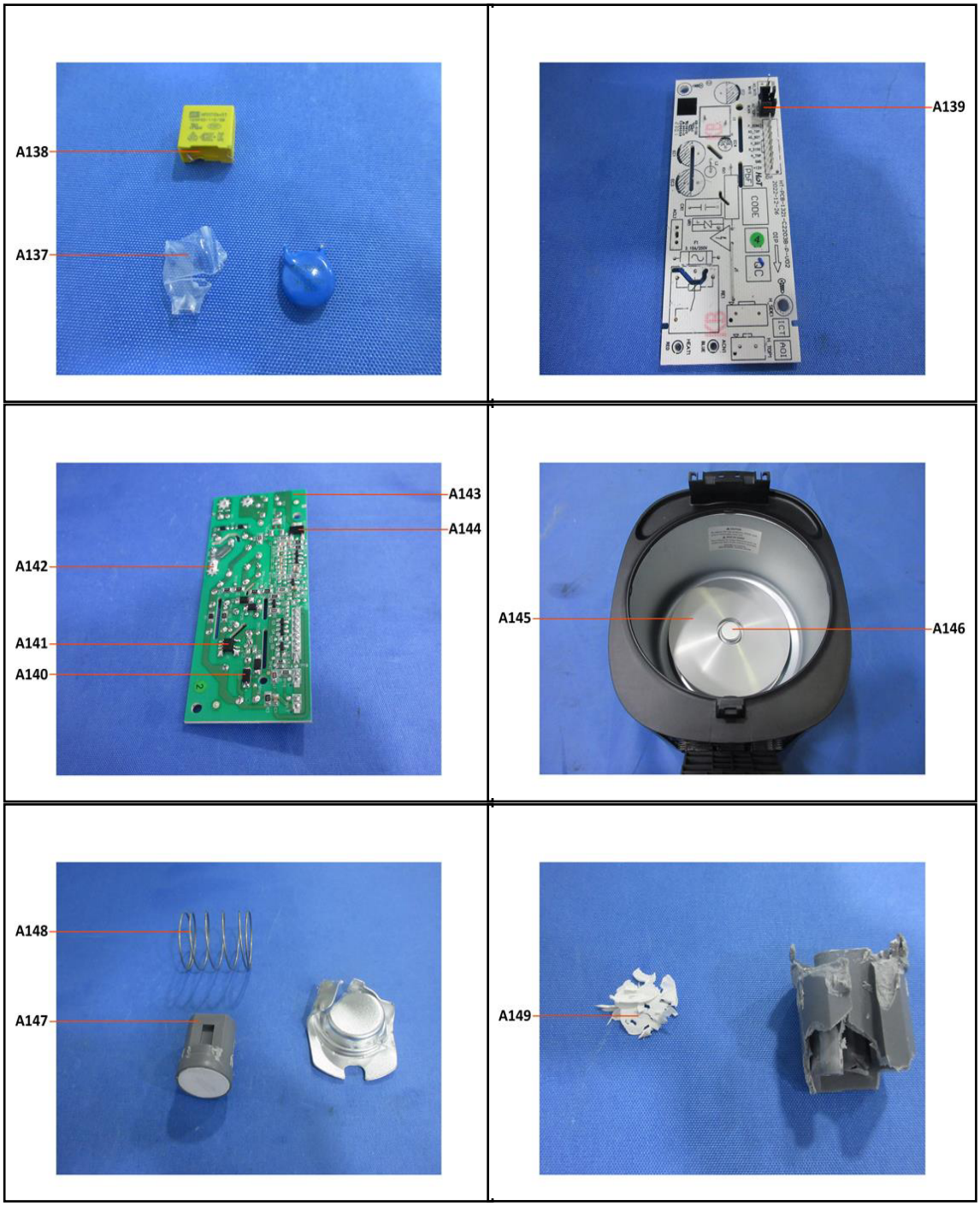

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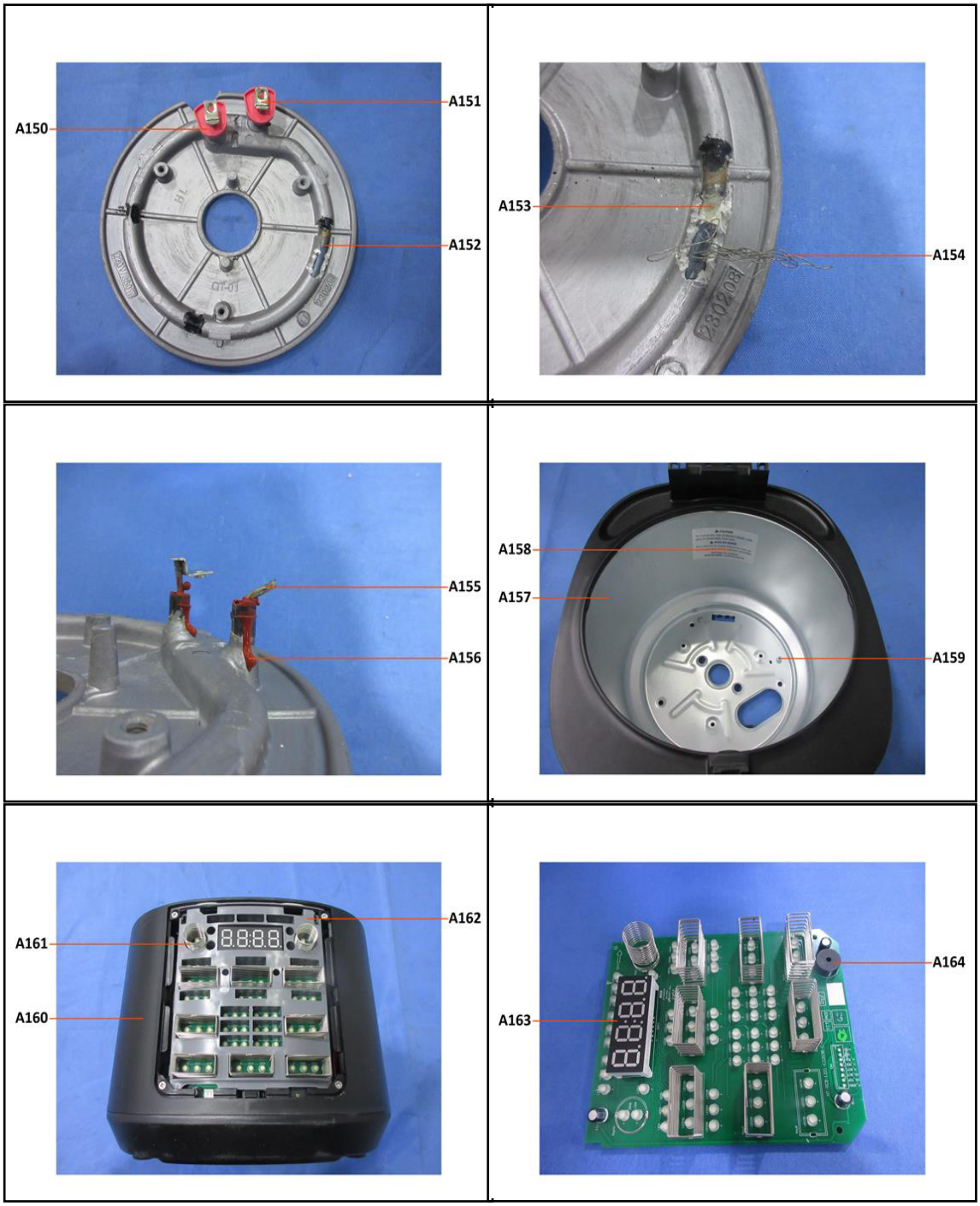

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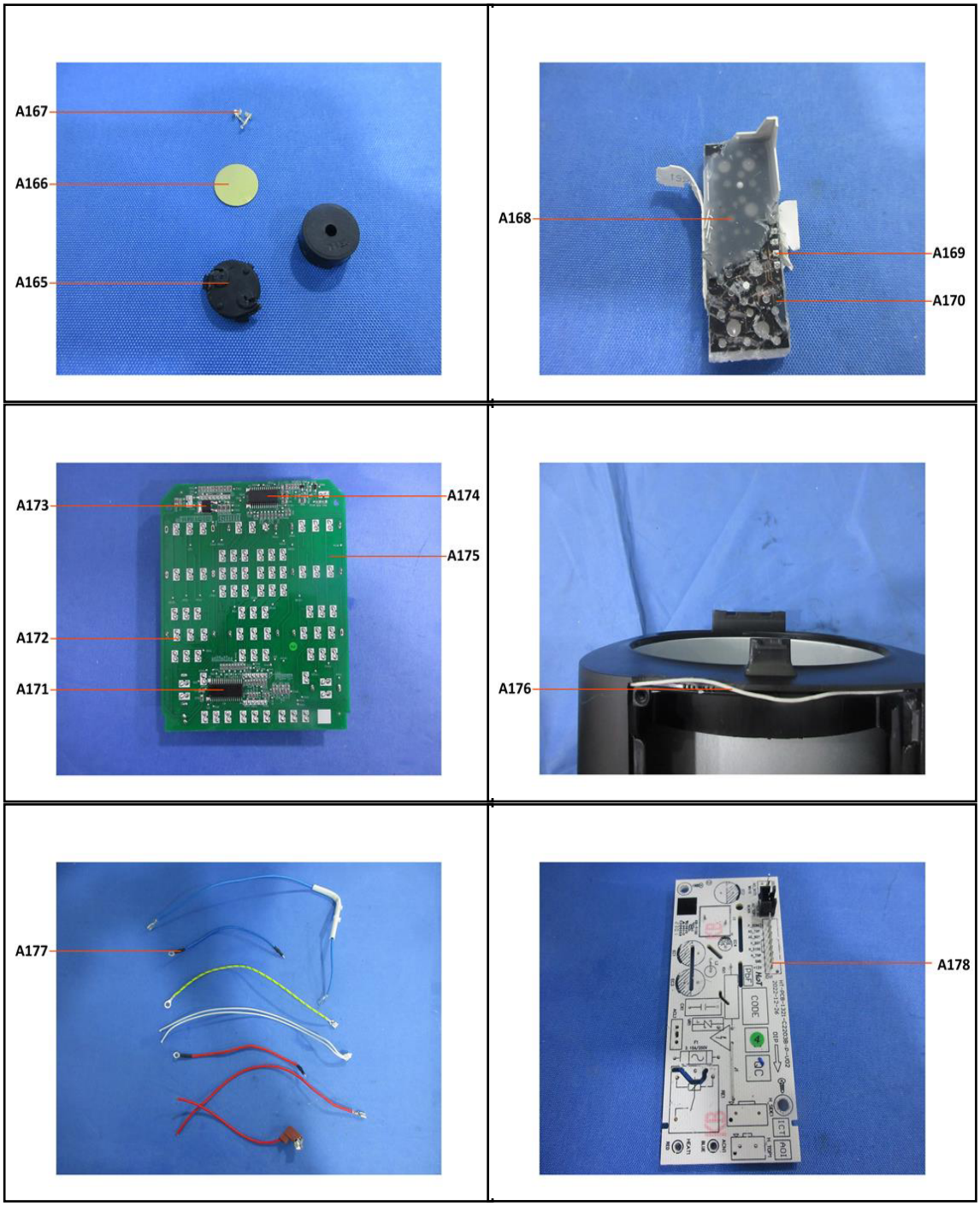

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