



TEST REPORT

Report No...... : WTF22F06130687C
Applicant..... : Kingwin Salon Equipment Co., LTD.
Address..... : No.16, Jinheng 2nd Road, Jinding Science & Technology Industrial Park, Zhuhai City, Guangdong, P.R.China.
Manufacturer..... : Kingwin Salon Equipment Co., LTD.
Address..... : No.16, Jinheng 2nd Road, Jinding Science & Technology Industrial Park, Zhuhai City, Guangdong, P.R.China.
Sample Name..... : Ionic facial steamer
Sample Model..... : JY-08
Sample Reference Model..... : JY-10, JY-108, JY-11, JY-8038A, JY-8038B, JY-8038C, JY-08R, JY-10R, JY-108R, JY-1000, JY-15A, JY-15B, JY-15C, JY-15CL, JY-15X, JY-15XA, JY-15XB, JY-16, JY-16A, JY-838, JY-838A, JY-388, JY-388A, JY-20, JY-20A, JY-20B, JY-20X, JY-20R, JY-19, JY-19A, JY-19B, JY-19X, JY-19R
Date of Receipt sample..... : 2022-06-28
Testing period..... : 2022-06-28 to 2022-07-08
Date of Issue..... : 2022-07-15
Test Result..... : Refer to next page (s)

Prepared By:

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Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Swing.Liang



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- Test Requested** : In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.
- Test Method**..... : 1) With reference to IEC 62321-2:2021, disassembly, disjunction and mechanical sample preparation
2) With reference to IEC 62321-3-1:2013, screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
3) With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES
4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES
5) With reference to IEC 62321-7-2: 2017 and IEC 62321-7-1: 2015, determination of Hexavalent Chromium by UV-Vis
6) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
7) With reference to IEC 62321-8:2017, determination of Phthalates content by GC-MS.
- Test Conclusion** : **Pass** (As per client's requirement, to test the specified components. The results of specified components comply with the requirement of EU RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863)

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Sample Photo(s):



**Test Results:****1. Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs**

Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
1	Silvery metal shaft	BL	BL	BL	BL	BL	NA
2	Silvery metal shaft	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
3	Black plastic wheel	BL	BL	BL	BL	BL	NA
4	Black plastic holder	BL	BL	BL	BL	BL	NA
5	Silvery metal sheet	BL	BL	BL	BL	BL	NA
6	Silvery metal screw	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
7	White coating	BL	BL	BL	BL	BL	NA
8	Silvery metal sleeve	BL	BL	BL	BL	BL	NA
9	Black plastic sleeve	BL	BL	BL	BL	IN	PBBs : ND PBDEs : 192
10	Black plastic sleeve	BL	BL	BL	BL	BL	NA
11	Transparent plastic cup	BL	BL	BL	BL	BL	NA
12	White plastic shell	BL	BL	BL	BL	BL	NA
13	Transparent plastic adhesive sheet with multicolour printing	BL	BL	BL	BL	BL	NA
14	Dark grey soft plastic sleeve	BL	BL	BL	BL	BL	NA
15	Silvery metal sleeve with black plating	IN	BL	BL	BL	BL	Cd :48
16	Grey plastic sleeve	BL	BL	BL	BL	BL	NA
17	Beige plastic ring	BL	BL	BL	BL	BL	NA
18	Black soft plastic gasket	BL	BL	BL	BL	BL	NA
19	Silvery metal sleeve	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
20	Semi-transparent soft plastic sleeve	BL	BL	BL	BL	BL	NA
21	White plastic jacket of plug	BL	BL	BL	BL	BL	NA
22	White plastic core of plug	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
23	Silvery metal pin of plug	BL	OL	BL	BL	BL	#Pb : 1.56 × 10⁴
24	White plastic wire jacket	BL	BL	BL	BL	BL	NA
25	Silvery metal terminal	BL	BL	BL	BL	BL	NA
26	Silvery metal terminal	BL	BL	BL	BL	BL	NA
27	Blue transparent soft plastic sleeve	BL	BL	BL	BL	BL	NA
28	Blue plastic wire covering	BL	BL	BL	BL	BL	NA
29	Brown plastic wire covering	BL	BL	BL	BL	BL	NA
30	Yellow-green plastic wire covering	BL	BL	BL	BL	BL	NA
31	Coppery metal wire	BL	BL	BL	BL	BL	NA
32	Red soft plastic sleeve	BL	BL	BL	BL	BL	NA
33	Grey plastic shell	BL	BL	BL	BL	BL	NA
34	Blue plastic wire covering	BL	BL	BL	BL	BL	NA
35	Silvery metal wire	BL	BL	BL	BL	BL	NA
36	Silvery metal sleeve	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
37	Black plastic wire covering	BL	BL	BL	BL	BL	NA
38	White plastic shell of connector	BL	BL	BL	BL	BL	NA
39	Silvery metal pin of connector	BL	BL	BL	BL	BL	NA



Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
40	Black plastic core anchorage	BL	BL	BL	BL	BL	NA
41	White plastic cable tie	BL	BL	BL	BL	BL	NA
42	Silvery metal screw	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
43	Silvery metal nut	BL	BL	BL	BL	BL	NA
44	Silvery metal screw	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
45	Black plastic film of electrolytic capacitor	BL	BL	BL	BL	BL	NA
46	Brown-green PCB	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
47	Black plastic bobbin of transformer	BL	BL	BL	BL	BL	NA
48	Red plastic base of connector	BL	BL	BL	BL	BL	NA
49	Silvery metal pin of connector	BL	BL	BL	BL	BL	NA
50	Solder	BL	BL	BL	BL	BL	NA

Remark:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$	$LOD < IN < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < IN$	$BL \leq (700-3\sigma) < IN$	$BL \leq (500-3\sigma) < IN$
Br	$BL \leq (300-3\sigma) < IN$	--	$BL \leq (250-3\sigma) < IN$

BL= Below Limit OL= Over Limit LOD = Limit of Detection -- = Not Regulated

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (3) The XRF screening test for RoHS elements – the reading may be different to the actual content in the sample be of non-uniformity composition.



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- (4) mg / kg =milligram per kilogram=ppm, $\mu\text{g}/\text{cm}^2$ = Micrograms per square centimetre.
- (5) ND = Not Detected or lower than limit of quantitation.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit or as the XRF screening directly determine that test result was over the limit, it was not need to conduct the wet chemical testing.
- (7) LOQ = Limit of quantitation.

Test Items	Pb	Cd	Hg	Cr ⁶⁺		PBB	PBDE
Units	mg/kg	mg/kg	mg/kg	mg/kg	$\mu\text{g}/\text{cm}^2$	mg/kg	mg/kg
LOQ	2	2	2	8	0.1	5	5

The LOQ for single compound of PBBs and PBDEs is 5mg/kg, LOQ of Cr⁶⁺ for polymer and composite sample is 8mg/kg and LOQ of Cr⁶⁺ for metal sample is 0.1 $\mu\text{g}/\text{cm}^2$.

- (8) RoHS Requirement

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

- (9) According to IEC 62321-7-1:2015, determined of Cr⁶⁺ on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.
Boiling water extraction:
Negative = Absence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is less than 0.10 $\mu\text{g}/\text{cm}^2$.
Positive = Presence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is greater than 0.13 $\mu\text{g}/\text{cm}^2$.
Information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.
- (10) Abbreviation:
"Pb" denotes Lead, "Cd" denotes Cadmium, "Hg" denotes Mercury, "Cr" denotes Chromium, "Cr (VI)" denotes Hexavalent Chromium, "Br" denotes Bromine, "PBBs" denotes Total Polybrominated Biphenyls, "PBDEs" denotes Total Polybrominated Diphenyl Ethers.
- (11) As per client's requirement, to test the specified components. The test results relate only to the components tested, and it doesn't mean that the whole product complies with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.
- (12)[#] = According to the declaration from client, the source of lead in test sample is from copper alloy while lead as copper alloy containing up to 4% lead by weight is exempted by Directive 2011/65/EU ANNEX III.



2. Phthalates:

Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T01	3	<50	<50	413	<50
T02	4	<50	<50	<50	<50
T03	7	<50	<50	<50	<50
T04	9	<50	<50	213	<50
T05	10	<50	<50	<50	<50
T06	11	<50	<50	<50	<50
T07	12+16+17+22 [△]	<50	<50	<50	<50
T08	13	<50	<50	<50	<50
T09	14	<50	<50	<50	<50
T10	18	<50	<50	256	<50
T11	20	<50	<50	<50	<50
T12	21	<50	<50	106	<50
T13	24	<50	<50	<50	<50
T14	27	<50	<50	220	<50
T15	28	<50	<50	<50	<50
T16	29	<50	<50	<50	<50
T17	30	<50	<50	<50	<50
T18	32	<50	<50	<50	<50
T19	33+38+40+41+45 [△]	<50	<50	109	<50
T20	34	<50	<50	<50	<50
T21	37	<50	<50	<50	<50
T22	46	<50	<50	<50	<50
T23	47+48 [△]	<50	<50	<50	<50

Note:

- (1) "<" = less than
- (2) mg/kg = milligram per kilogram= ppm
- (3) Abbreviation:
 "DBP" denotes Dibutyl phthalate, "BBP" denotes Benzyl butyl phthalate (BBP), "DEHP" denotes Bis(2-ethylhexyl)-phthalate, "DIBP" denotes Diisobutyl phthalate, "PHT" denotes Phthalates.

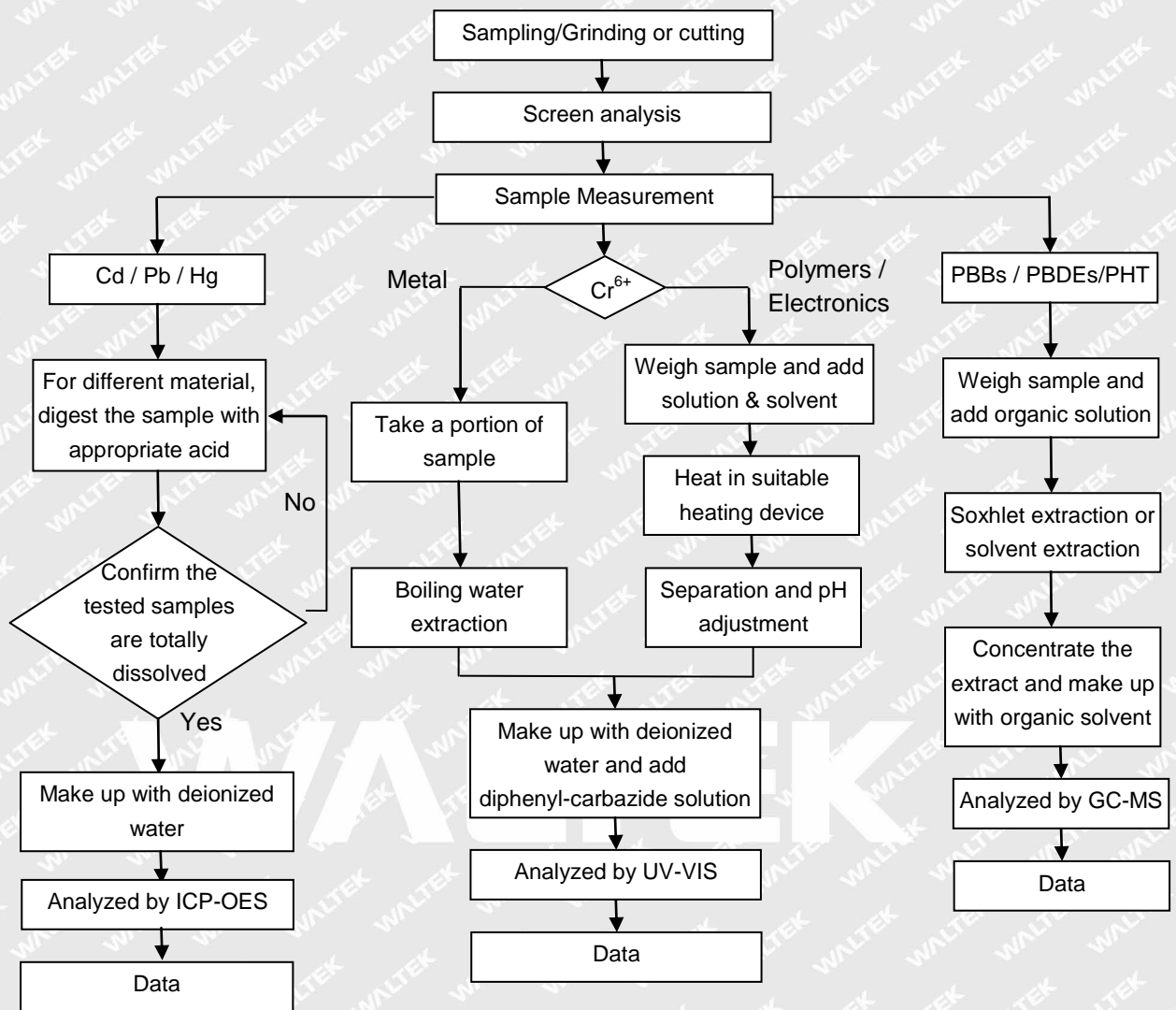
- (4) RoHS requirement

Restricted Substances	Limits
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di(2-ethylhexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Di-iso-butyl phthalate (DIBP)	0.1% (1000 mg/kg)

- (5) "△" = As client's requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.
- (6) As per client's requirement, to test the specified components. The test results relate only to the components tested, and it doesn't mean that the whole product complies with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.



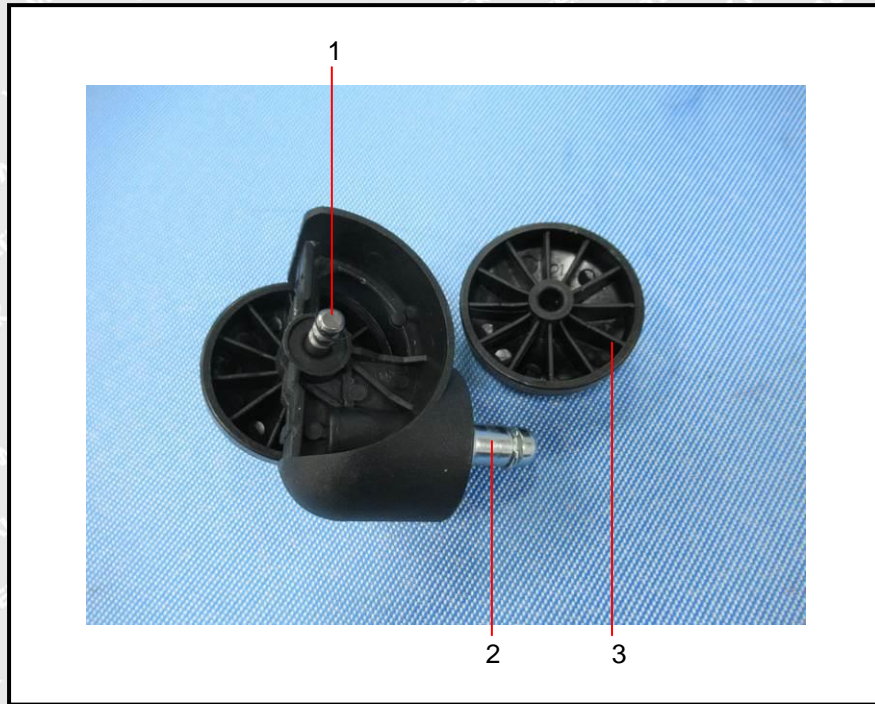
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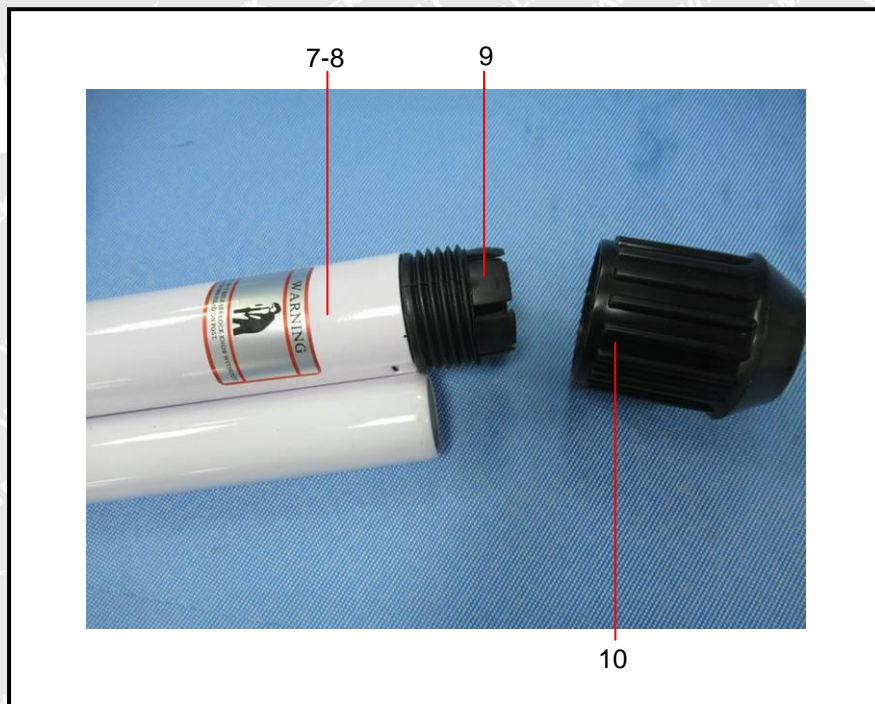
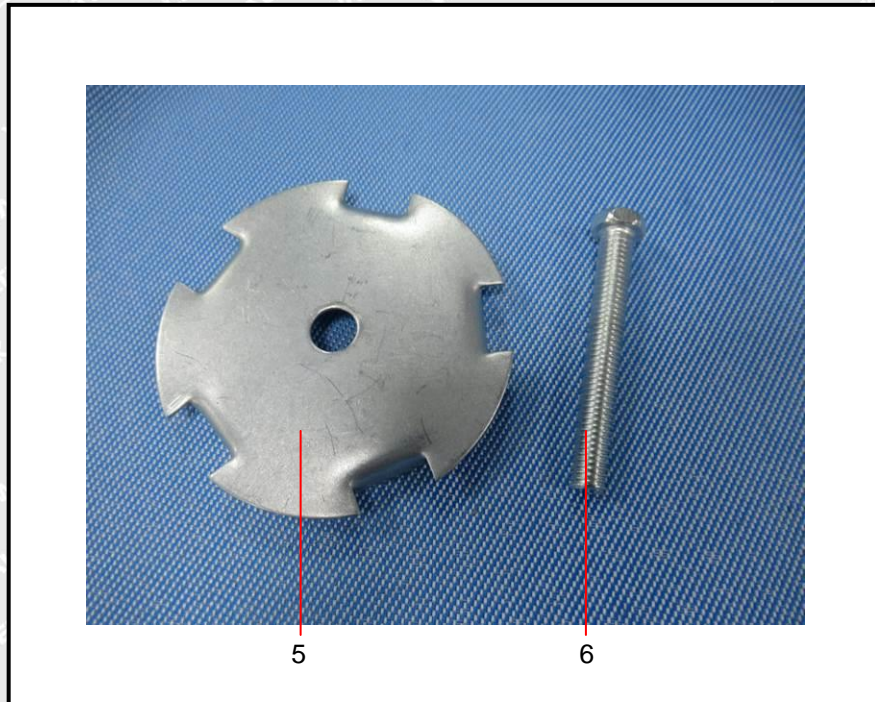


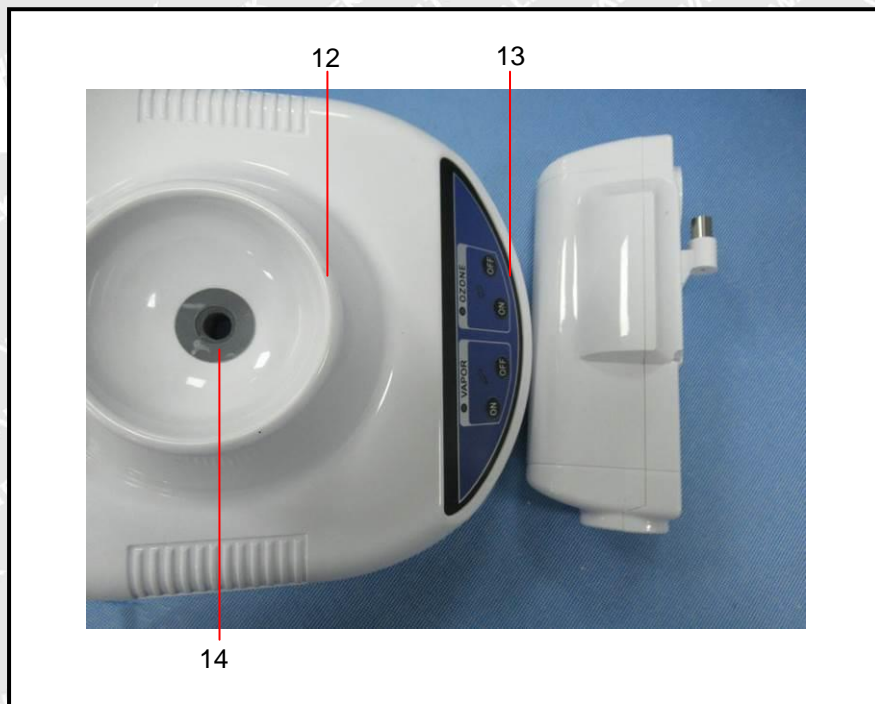
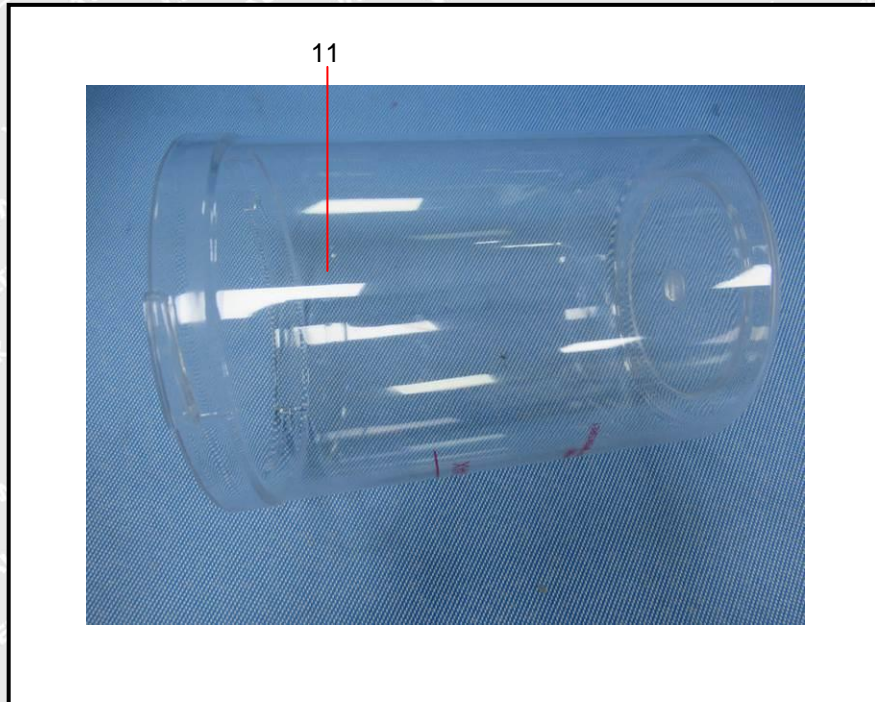


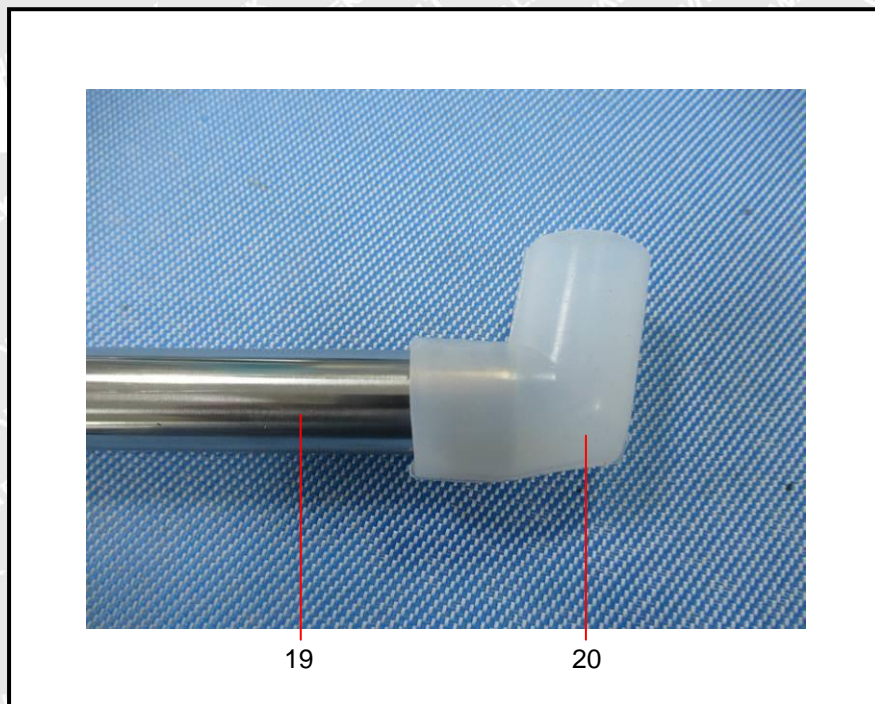
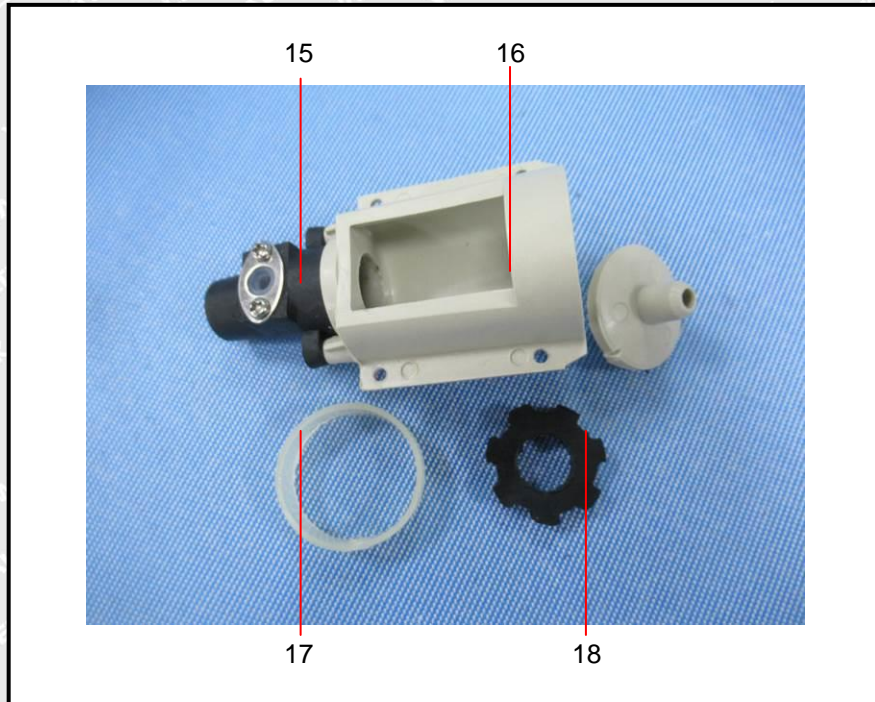
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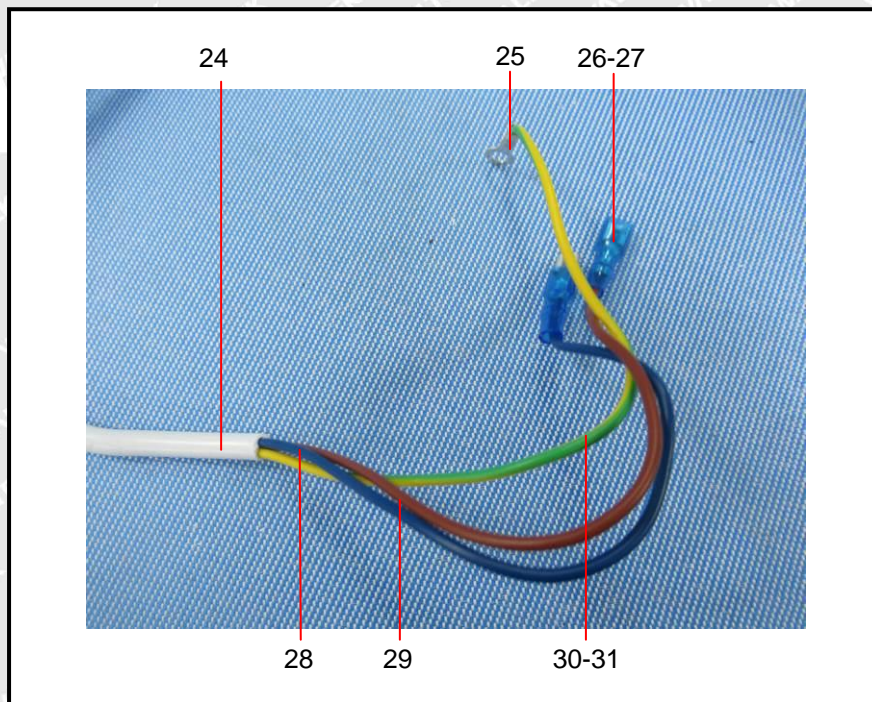
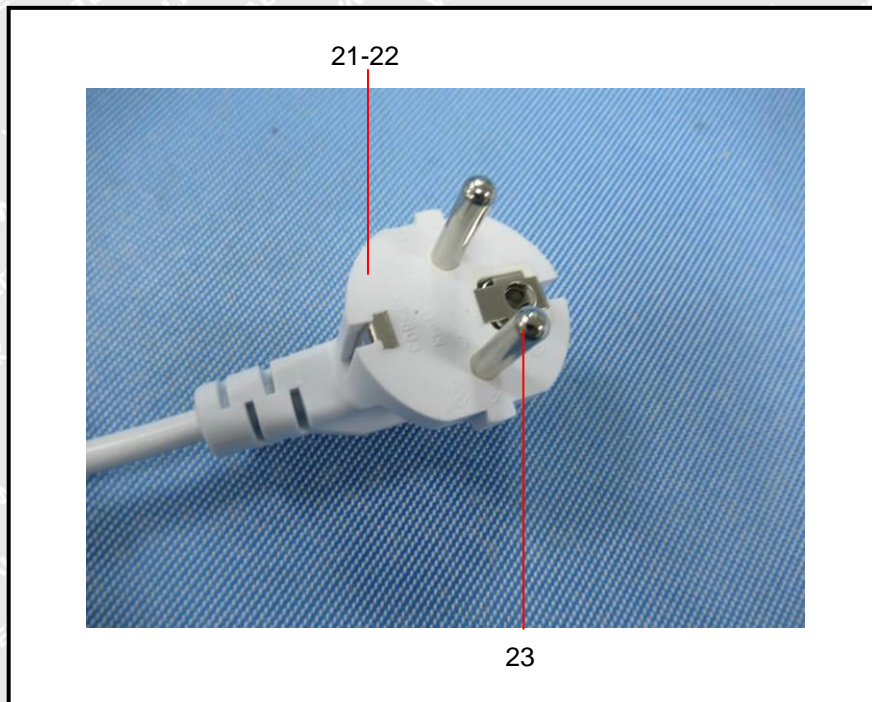
Photograph(s) of parts tested:

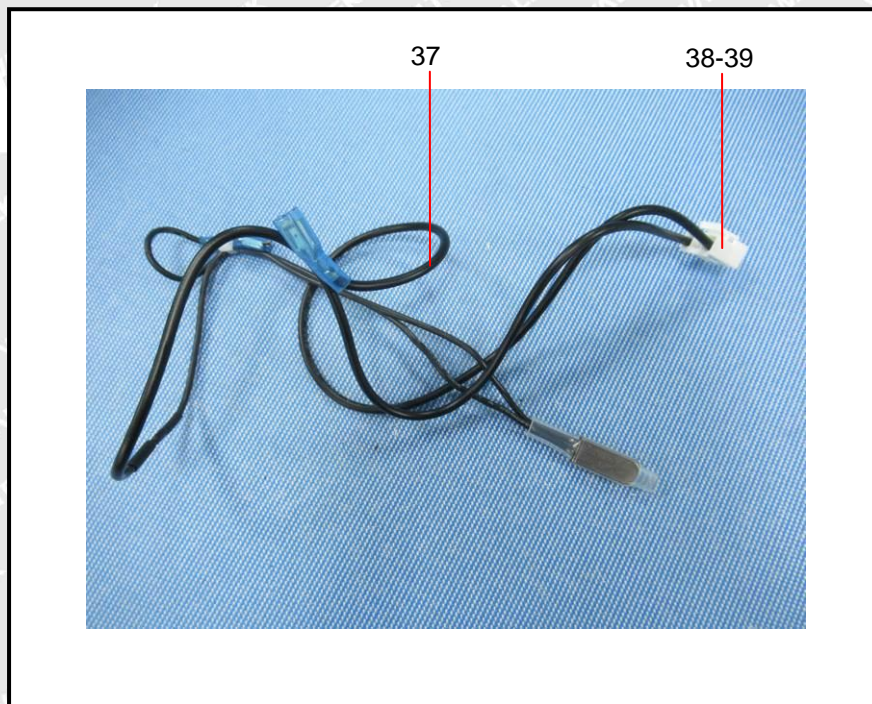
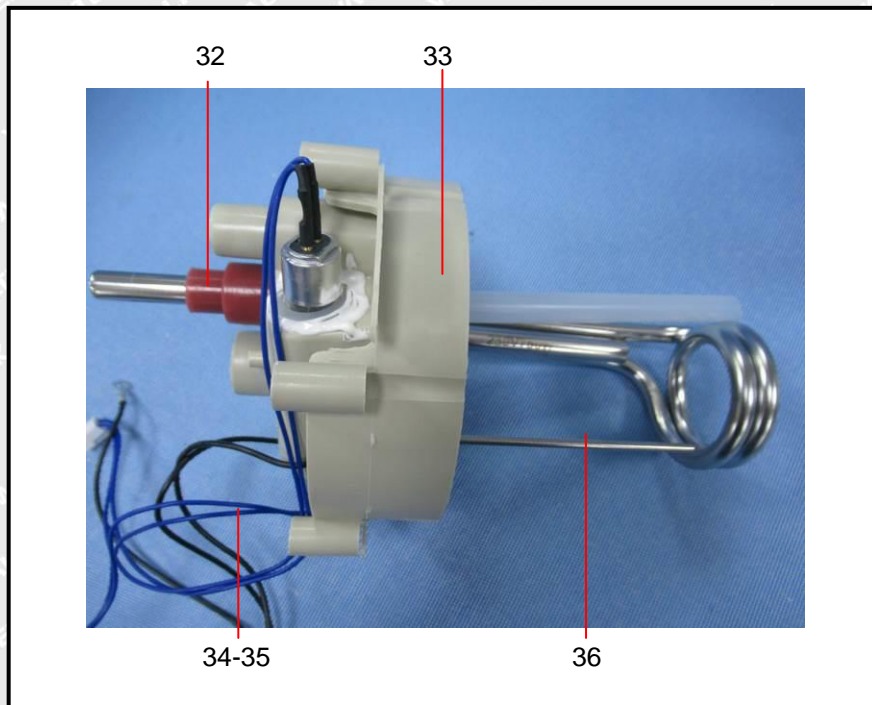


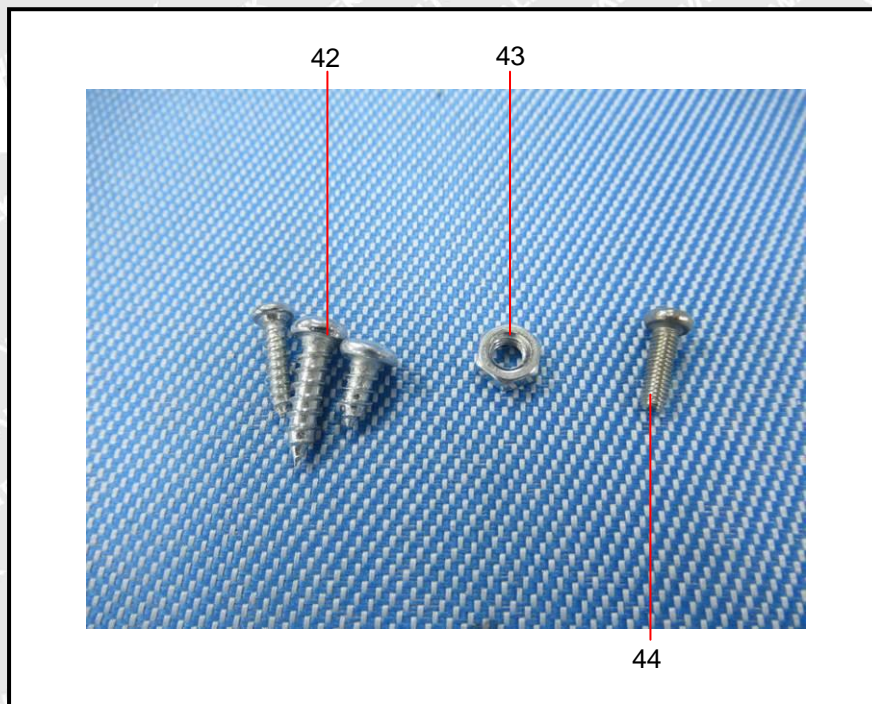
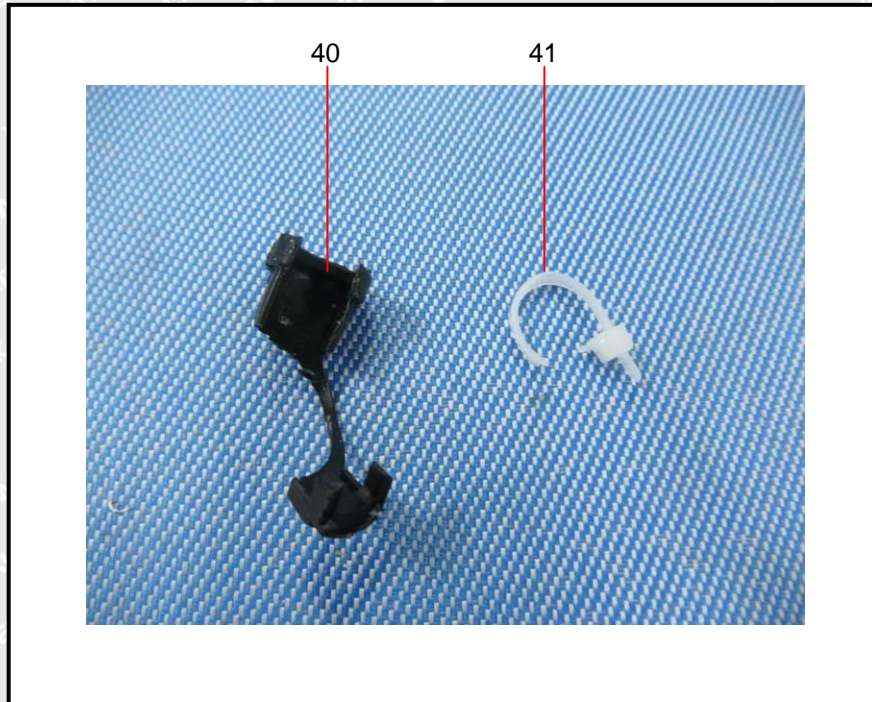


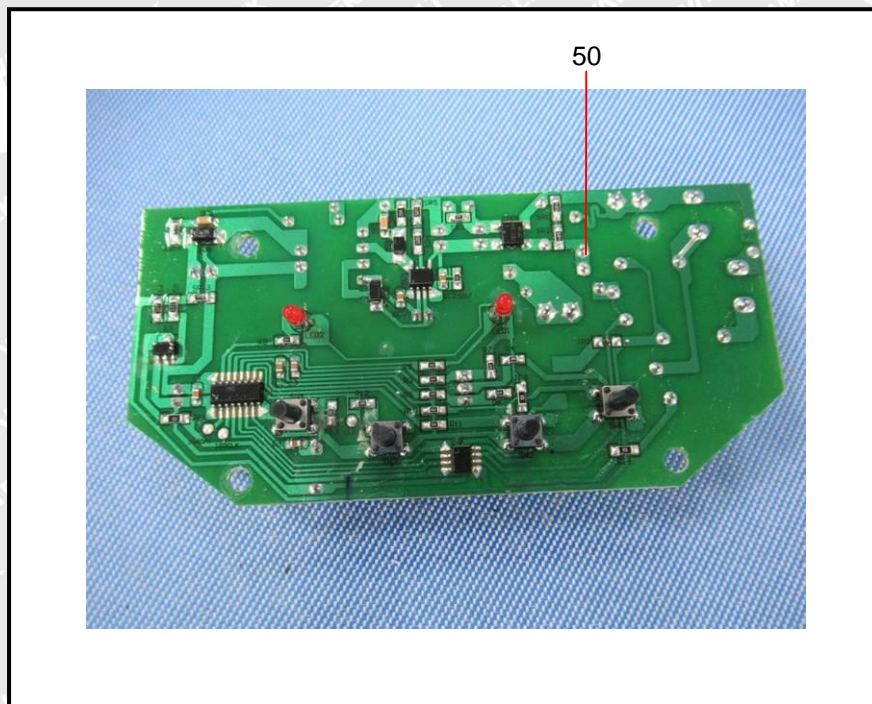
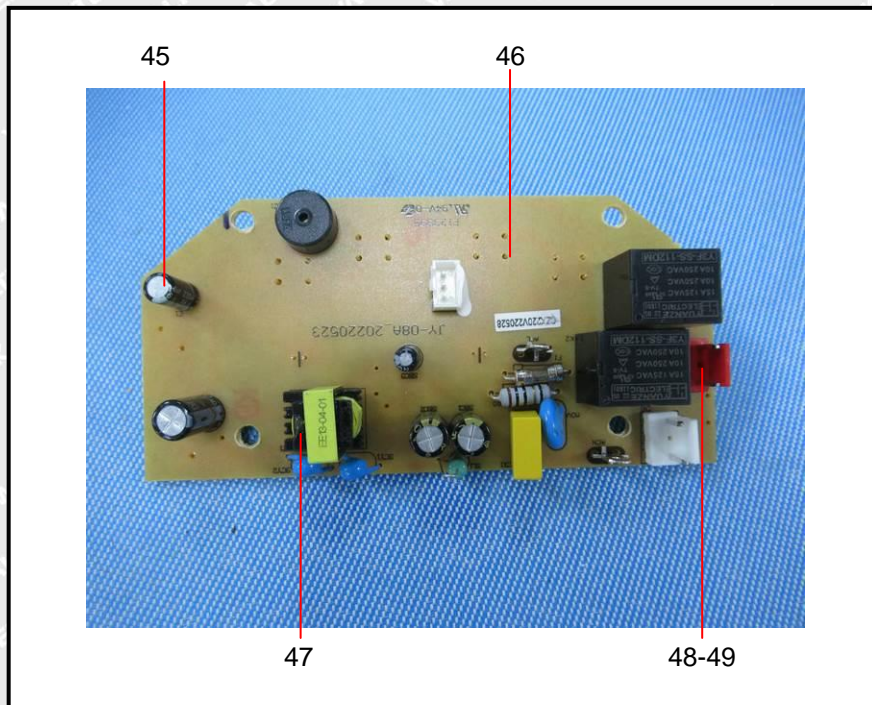














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