



中国认可  
国际互认  
检测  
TESTING  
CNAS L11379

# TEST REPORT




Company Name Nanjing Spike Amusement Equipment Co., Ltd  
Shown on Report:  
Address: Room 3-0081, Yuefu Building, No. 254 Lidao Road, Baguazhou Street, Qixia District, Nanjing City, Jiangsu Province

**The following sample(s) was/were submitted and identified on behalf of the client as:**

Sample Name: Please refer to next page  
Sample Model: Please refer to next page  
Manufacturer: Nanjing Spike Amusement Equipment Co., Ltd  
Address: Room 3-0081, Yuefu Building, No. 254 Lidao Road, Baguazhou Street, Qixia District, Nanjing City, Jiangsu Province  
Sample Received Date: Feb.03, 2026  
Test Period: Feb.03, 2026 - Feb.28, 2026  
Date of Issue: Mar.02, 2026

**ISSUED BY:**  
GUANGDONG TITCOBO TESTING CO.,LTD.



**Editor:** Soul **Checked by:** Cd lan **Approved by:** Sam Xie  
  

Sample Name	Test Model	Series Model
SOFT PLAY EQUIPMENT	SPK14101	SPK14102, SPK14103, SPK14104, SPK14105, SPK14106, SPK14107, SPK14108, SPK14109, SPK14110;
CHILDREN'S FITNESS EQUIPMENT	KB-01	KB-01B;KB-02;KB-04;KB-05;KB-06;KB-06A;KB-07;KB-08;KB-09;KB-10;KB-11,KB-12



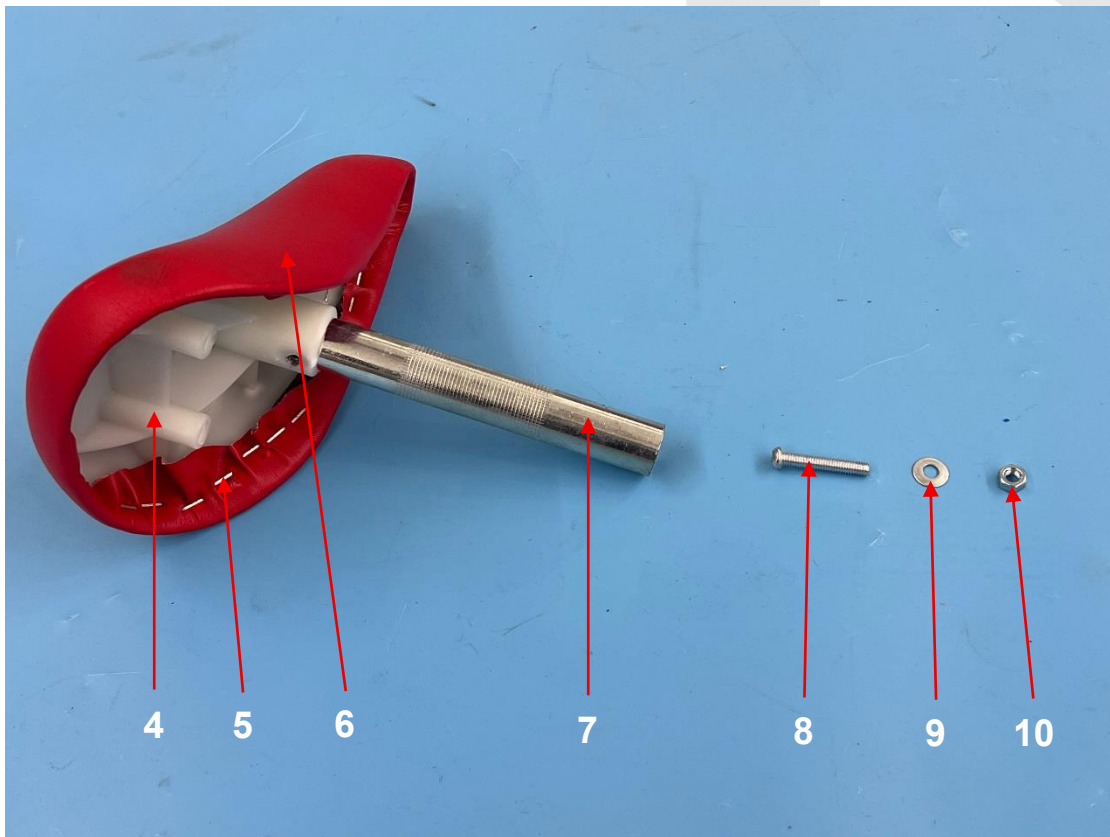
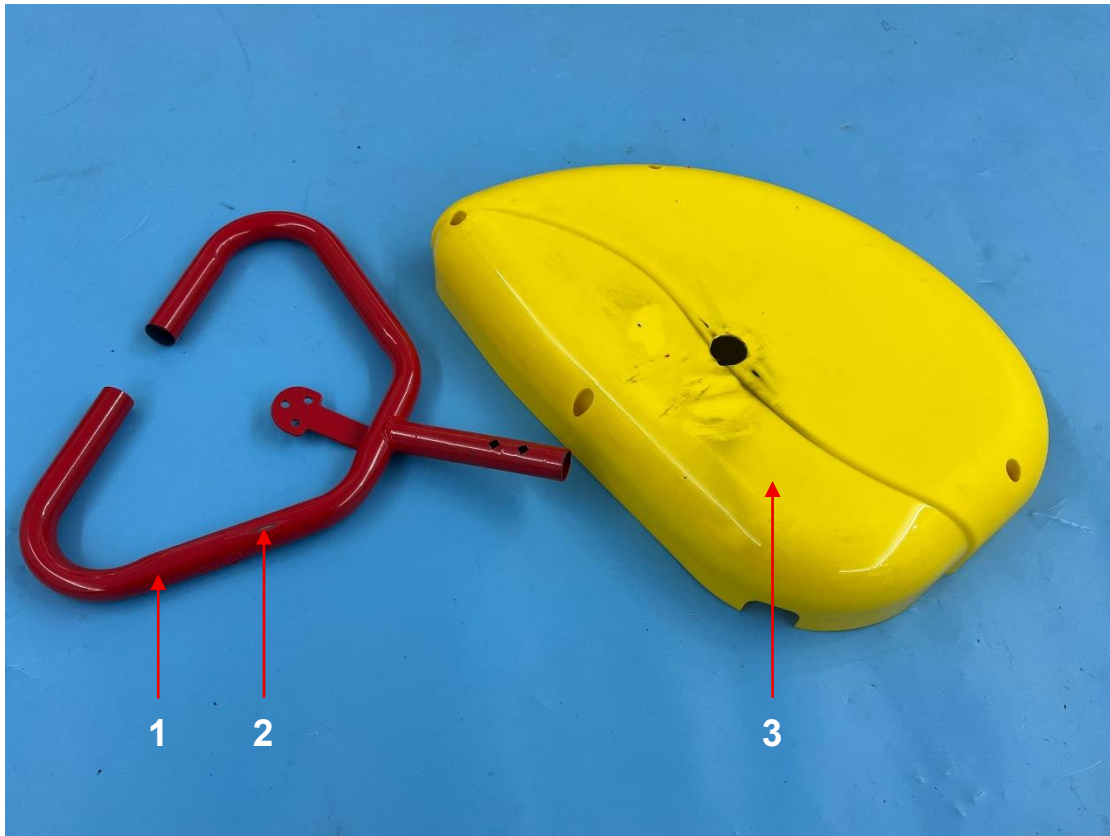
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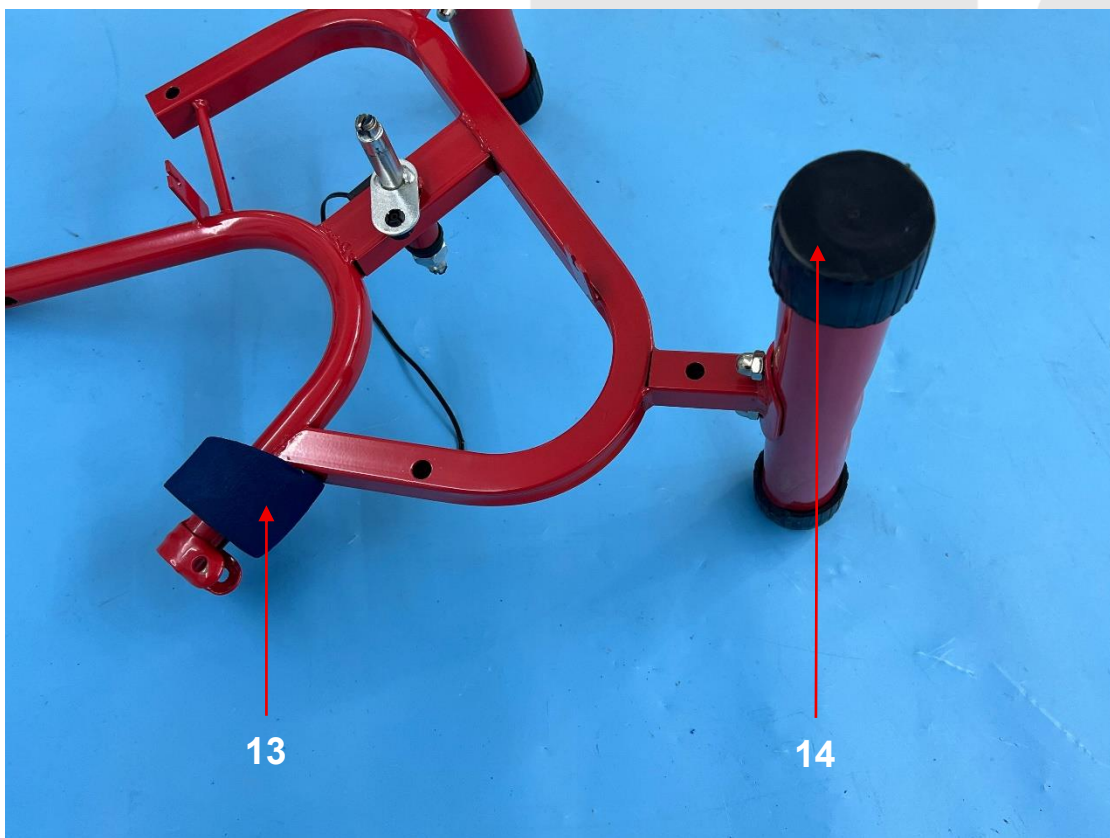
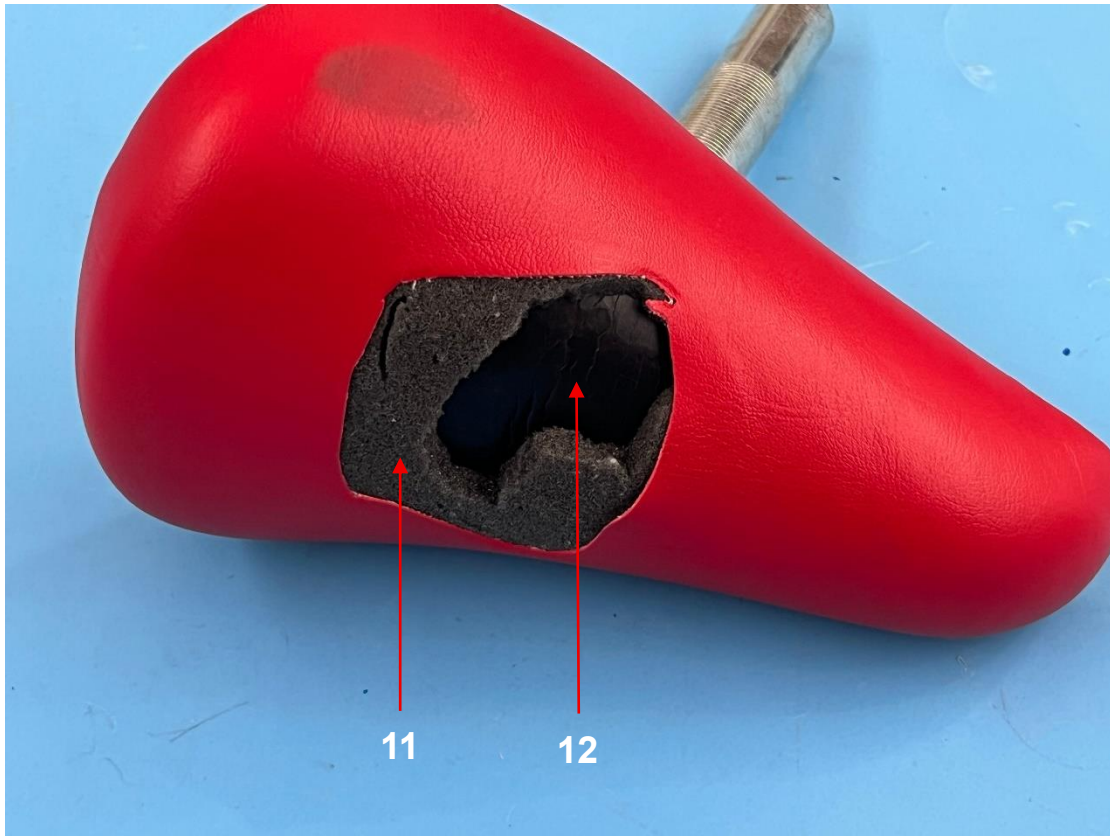
Based on the performed tests on specified material(s) or submitted sample(s).

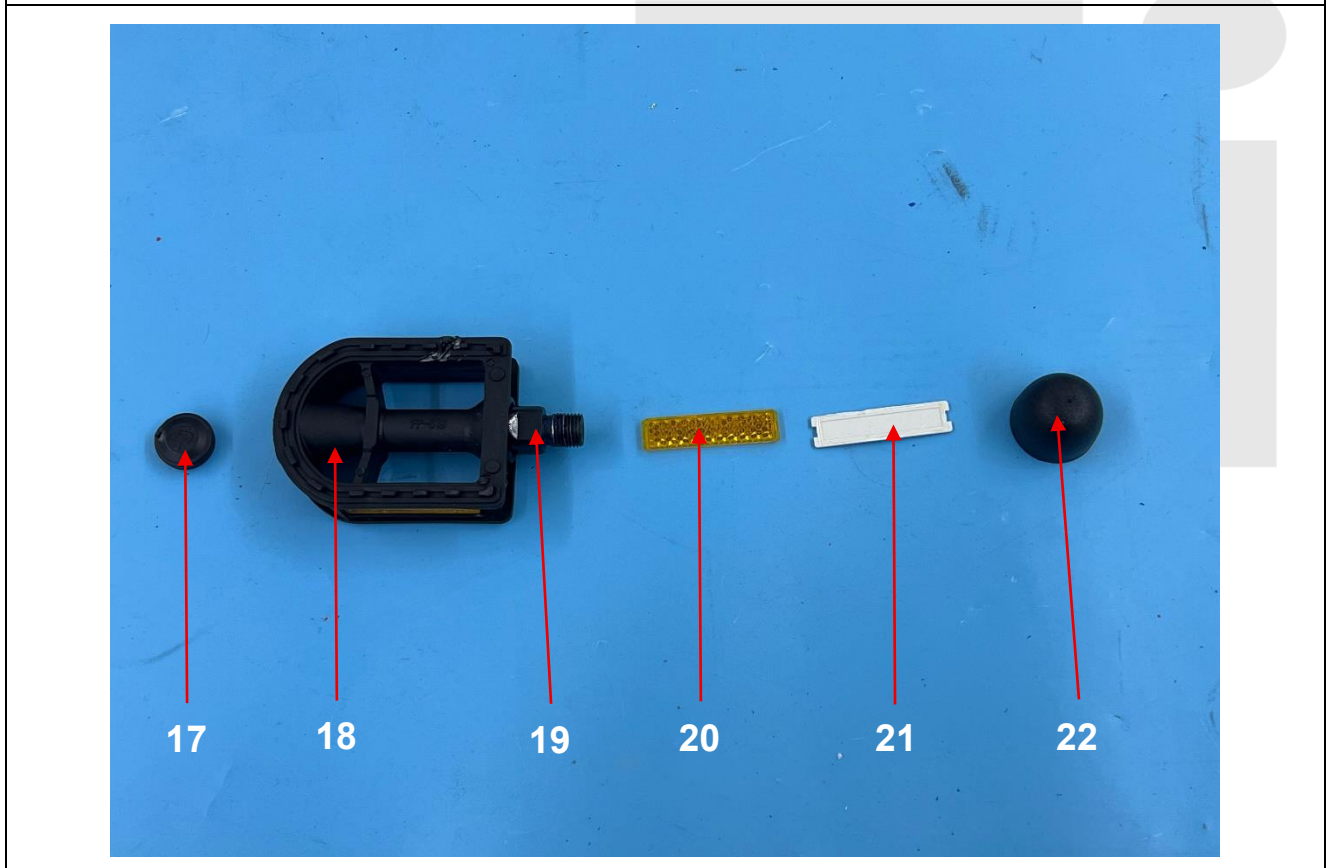
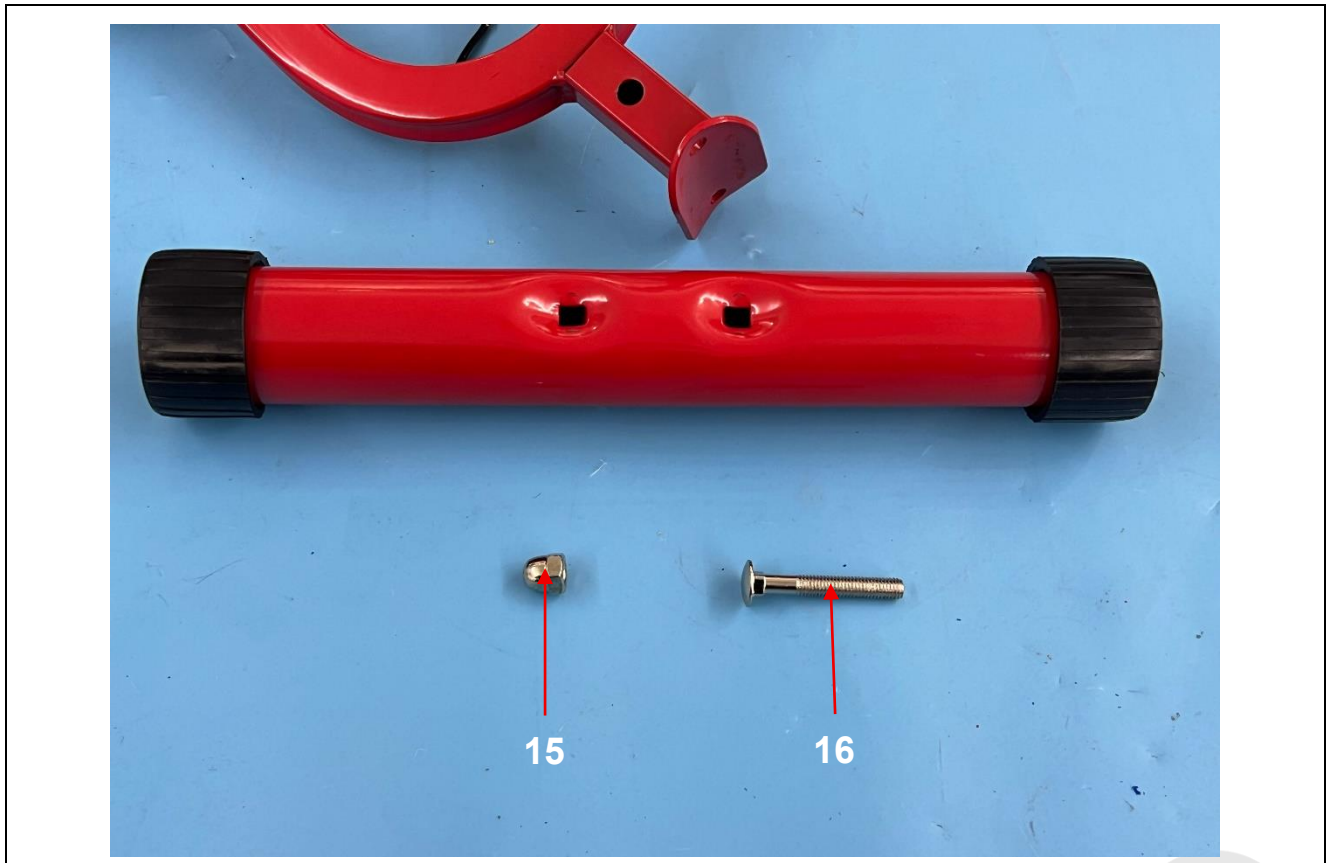
Test items	Conclusion
RoHS Directive 2011/65/EU Revised instructions (EU) 2015/863 of the European parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment	
- Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Hexavalent Chromium(Cr <sup>6+</sup> ) content.	PASS
- Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) content.	PASS
- Di-(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content	PASS

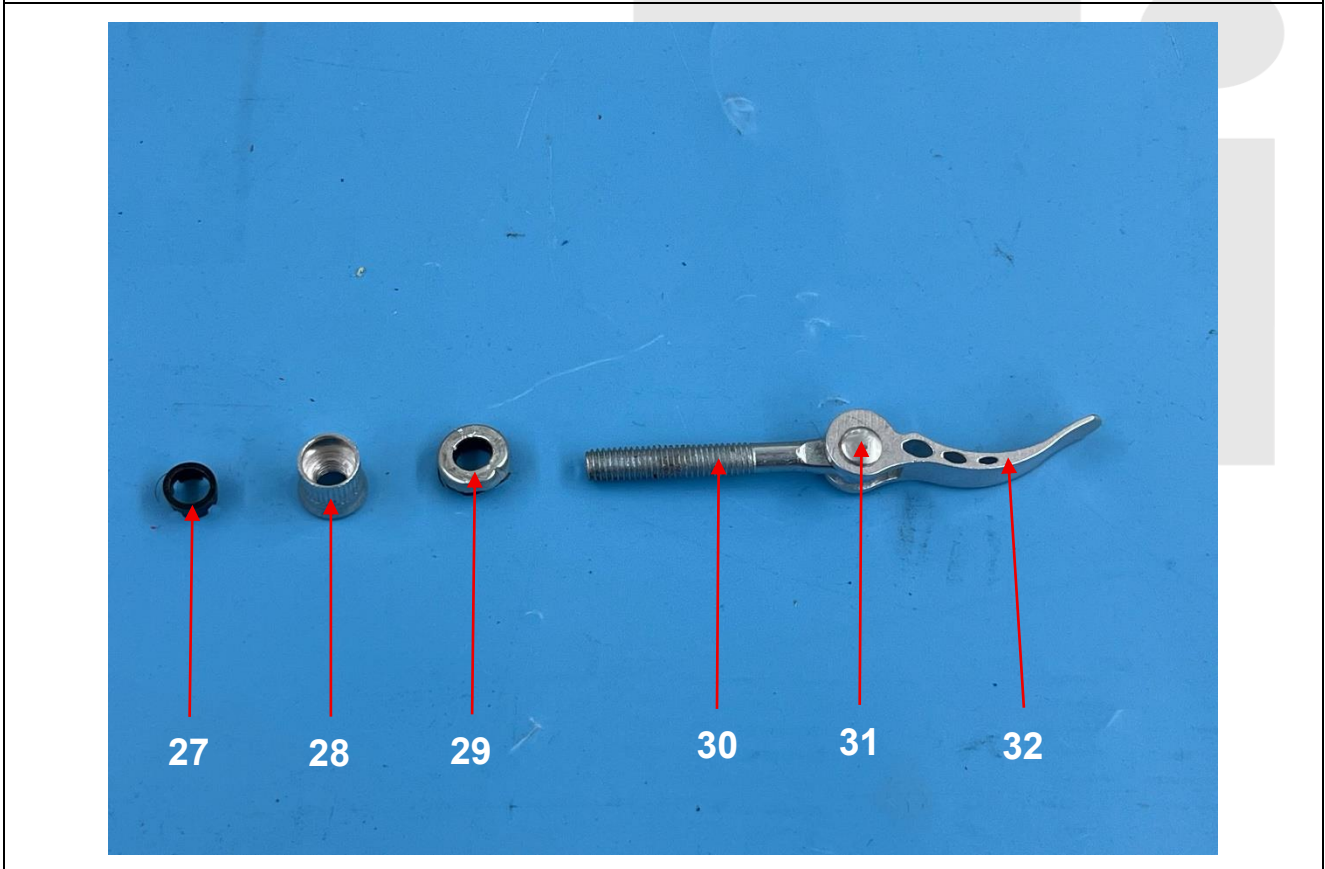
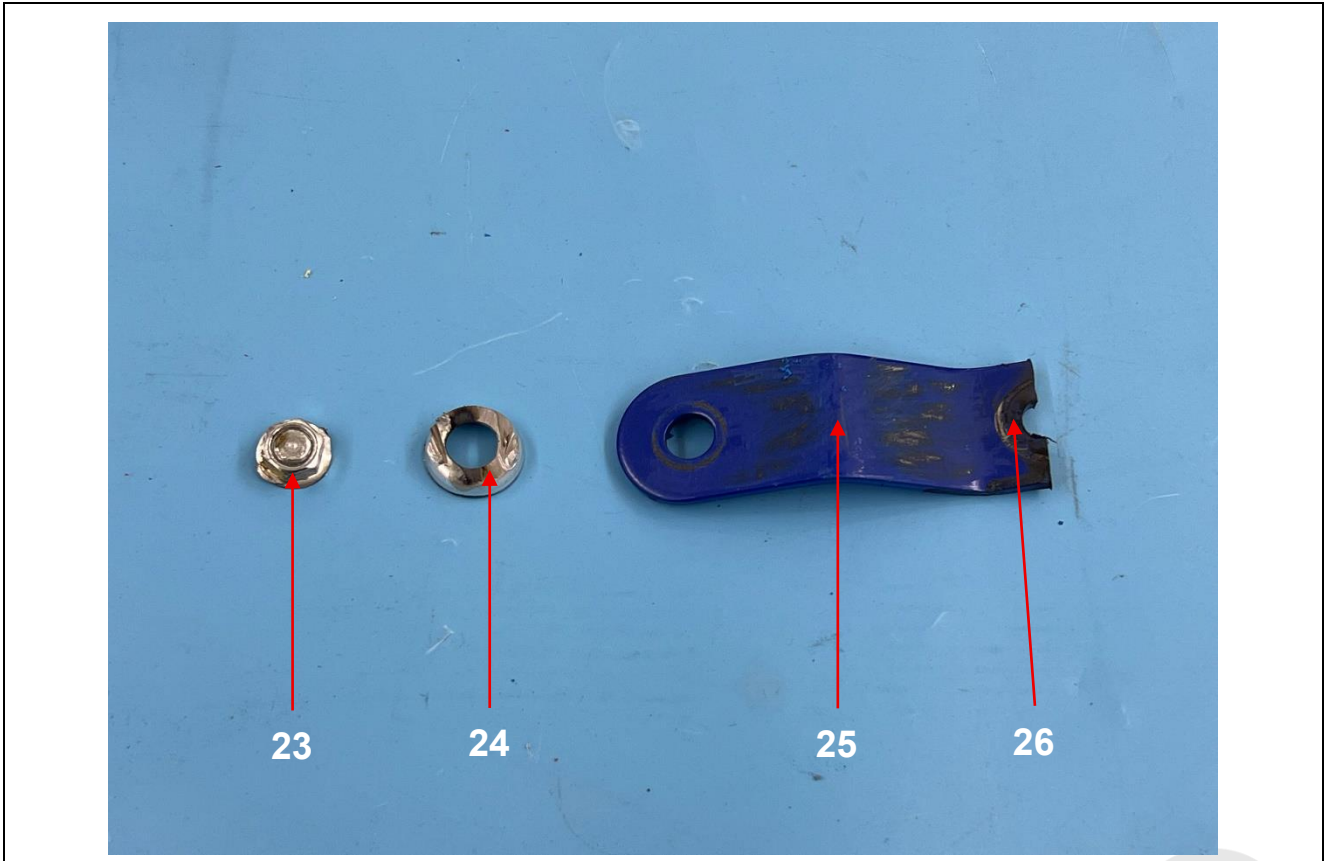


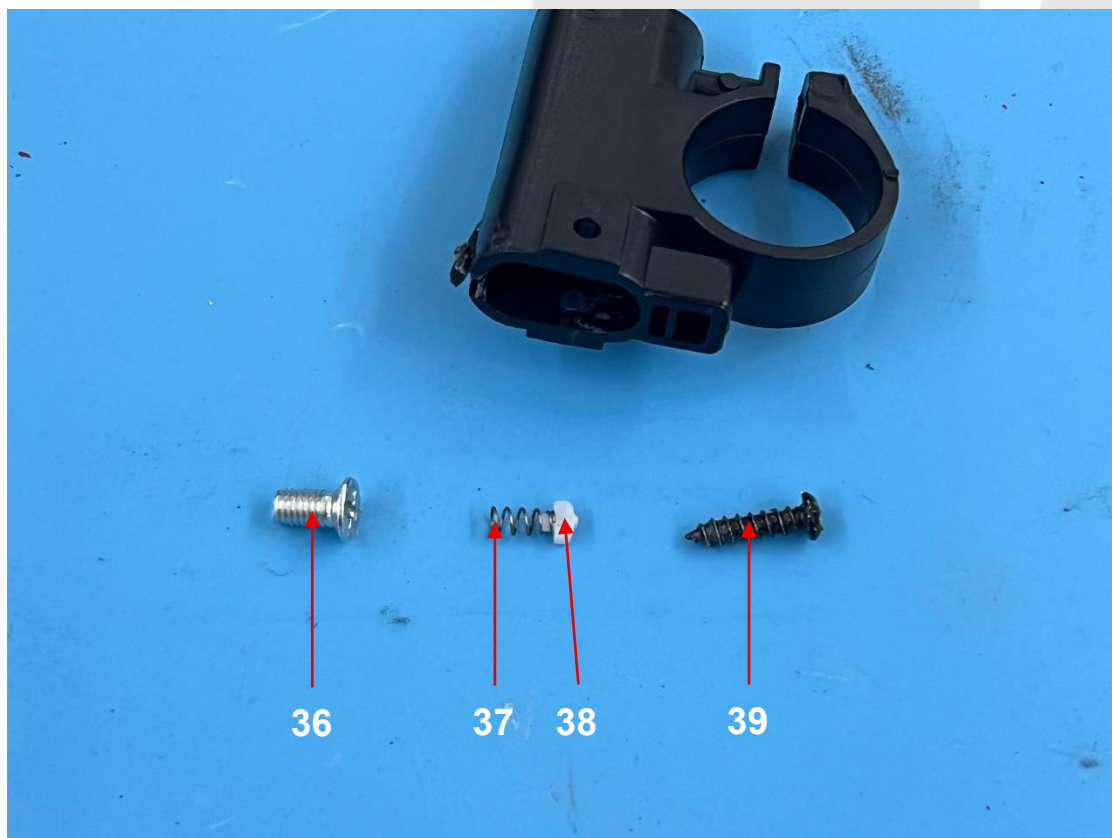
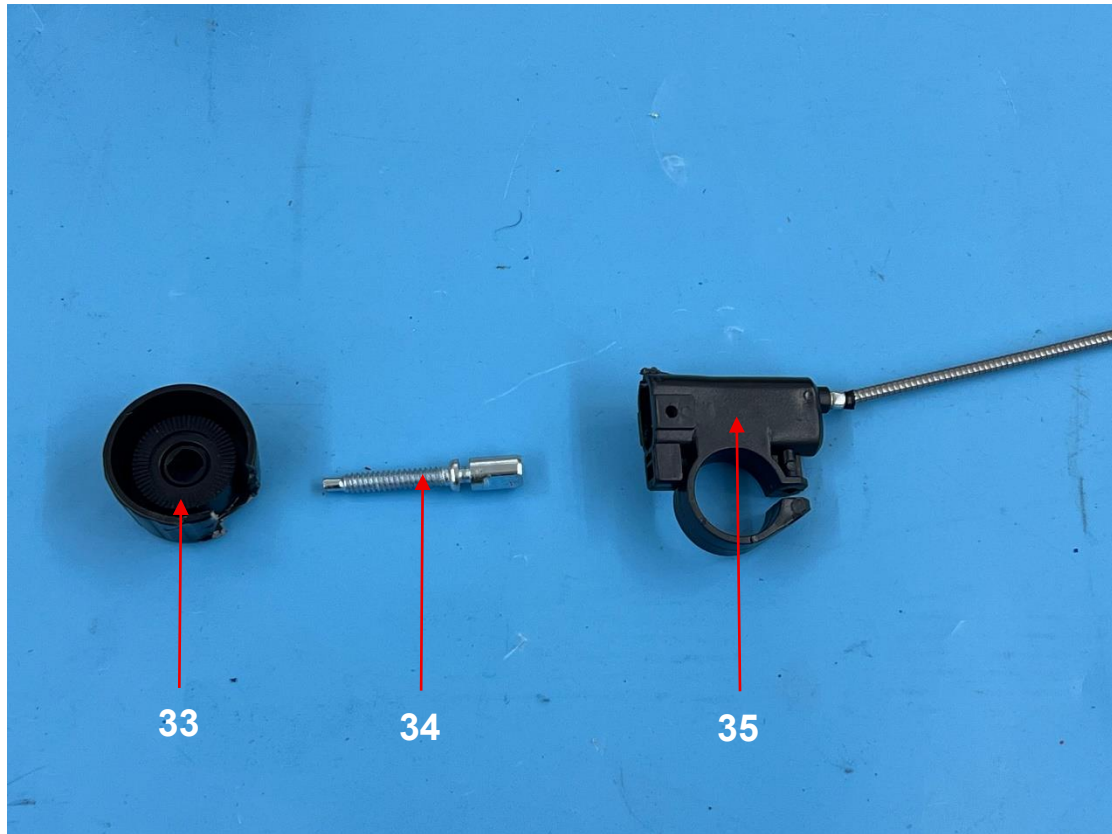
Sample photo list--A

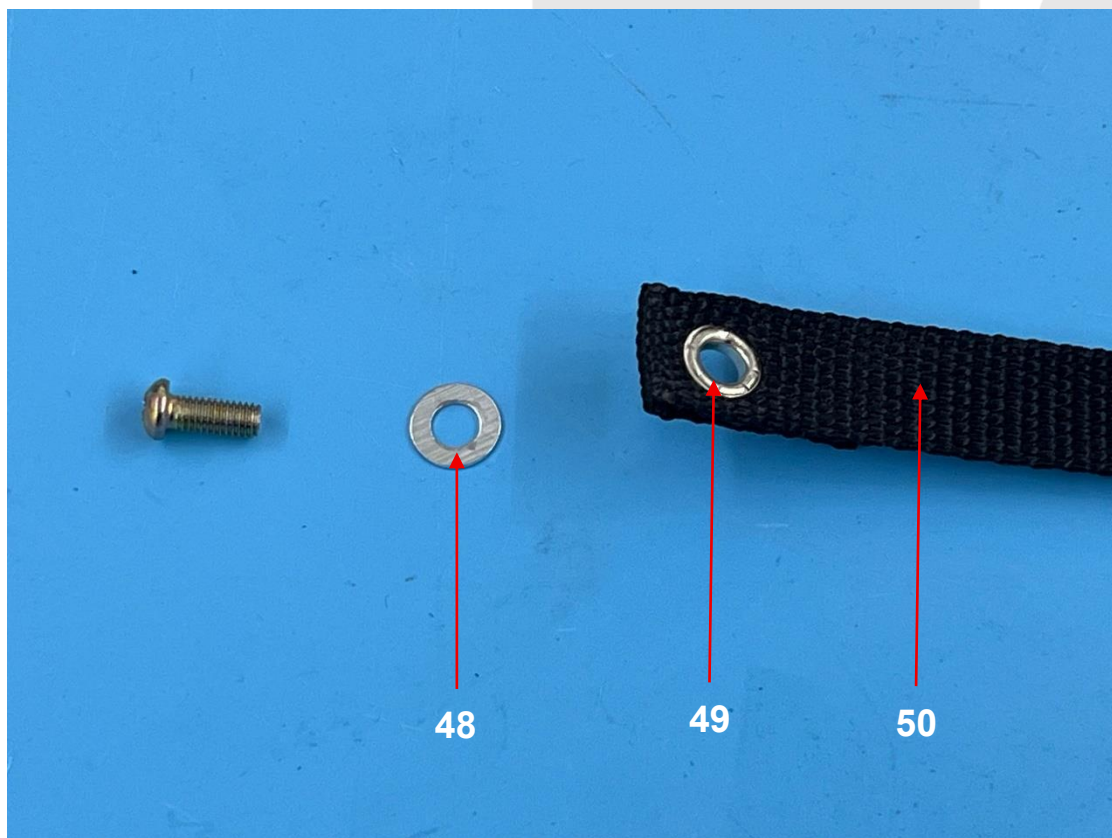
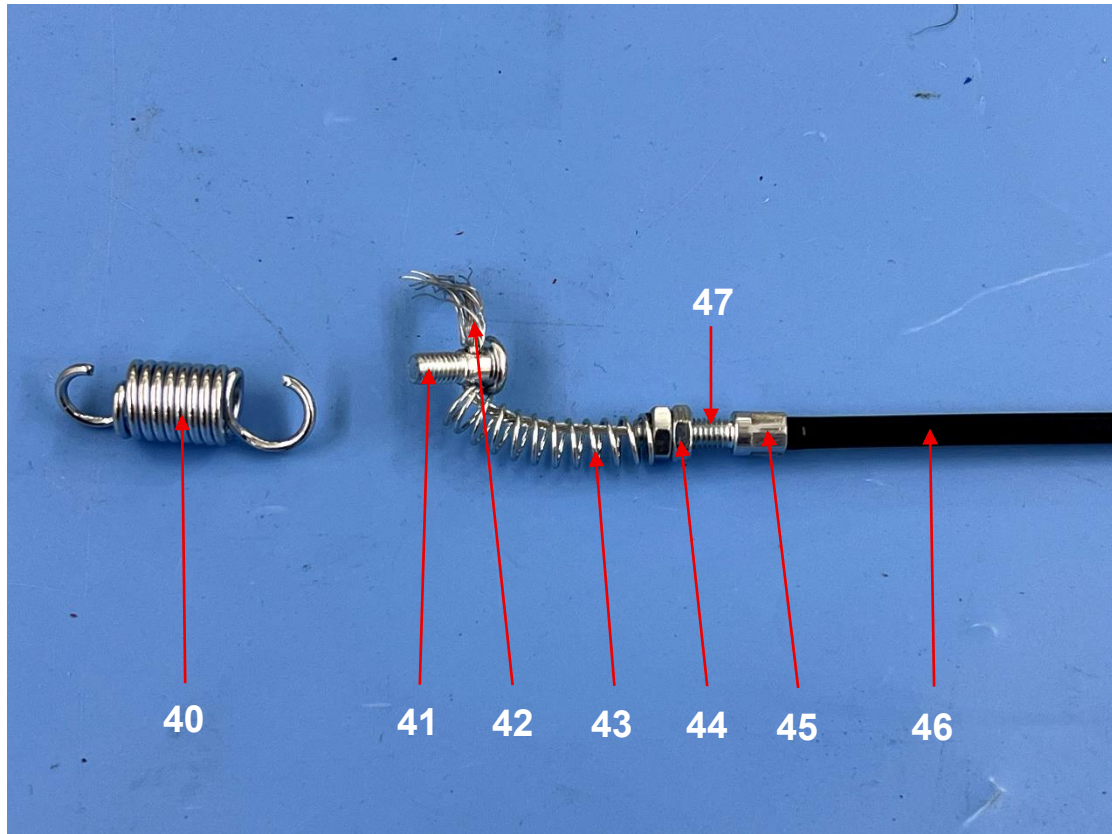


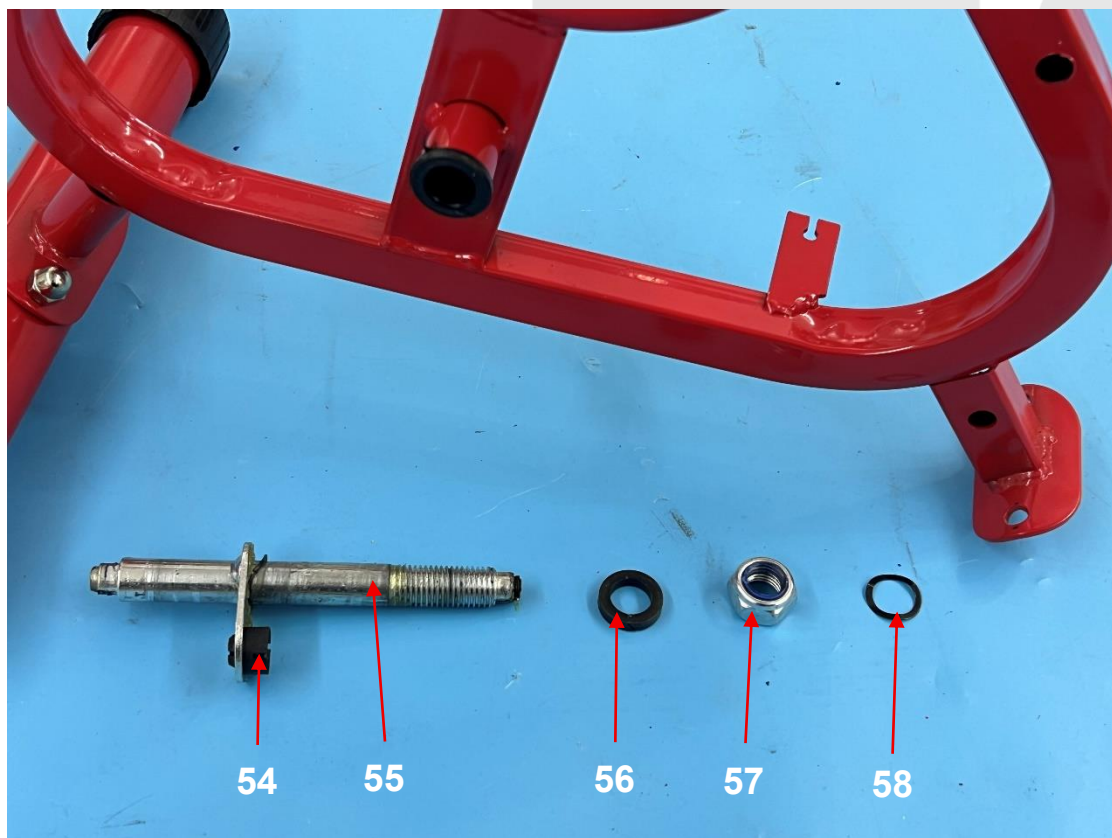
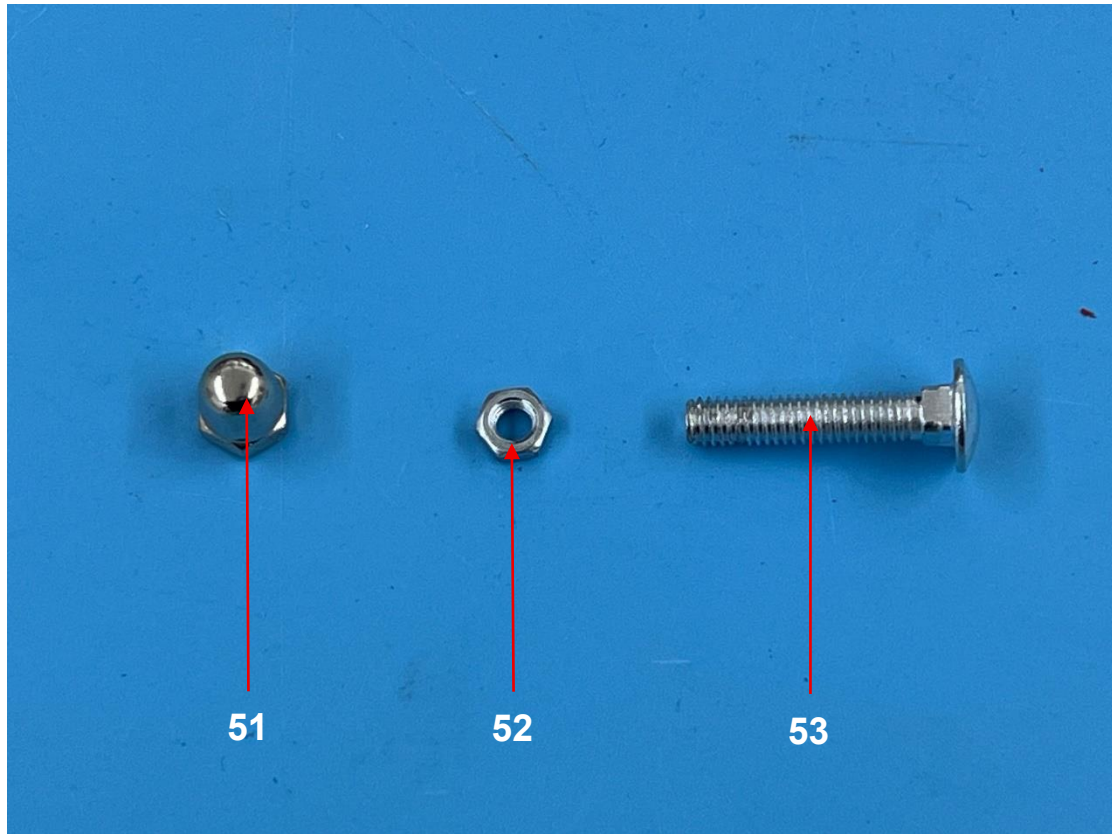


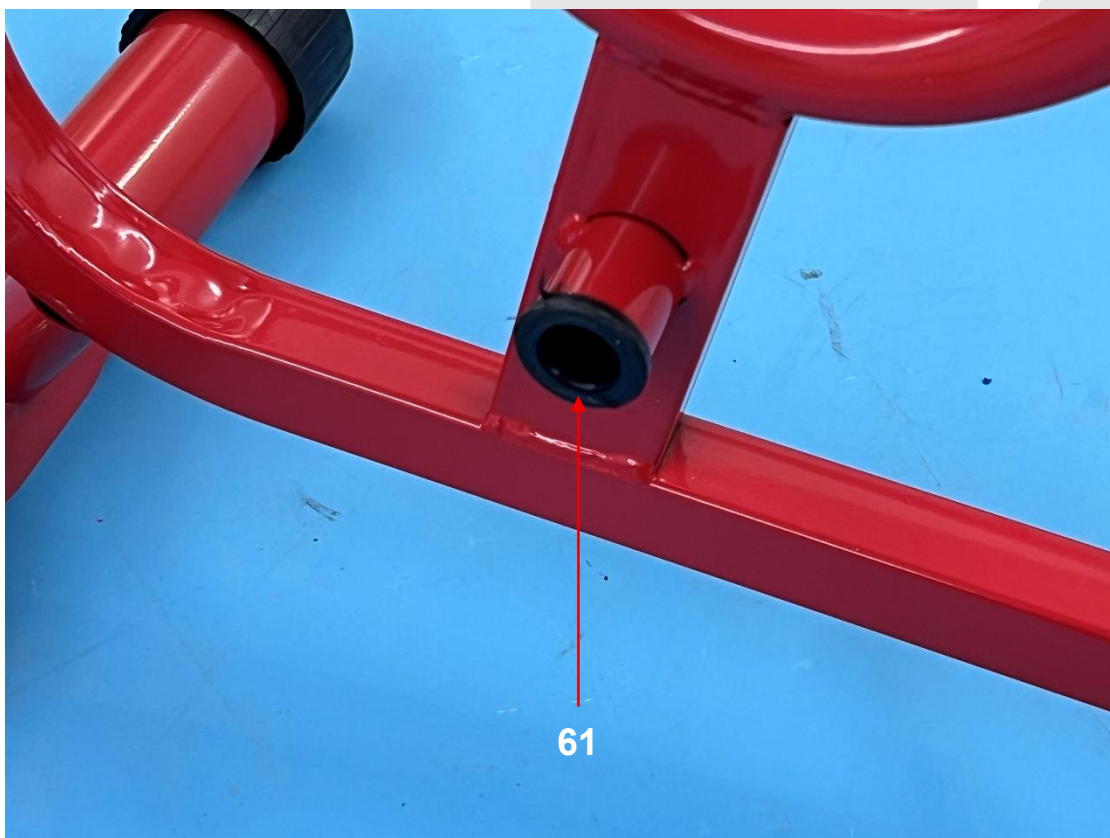


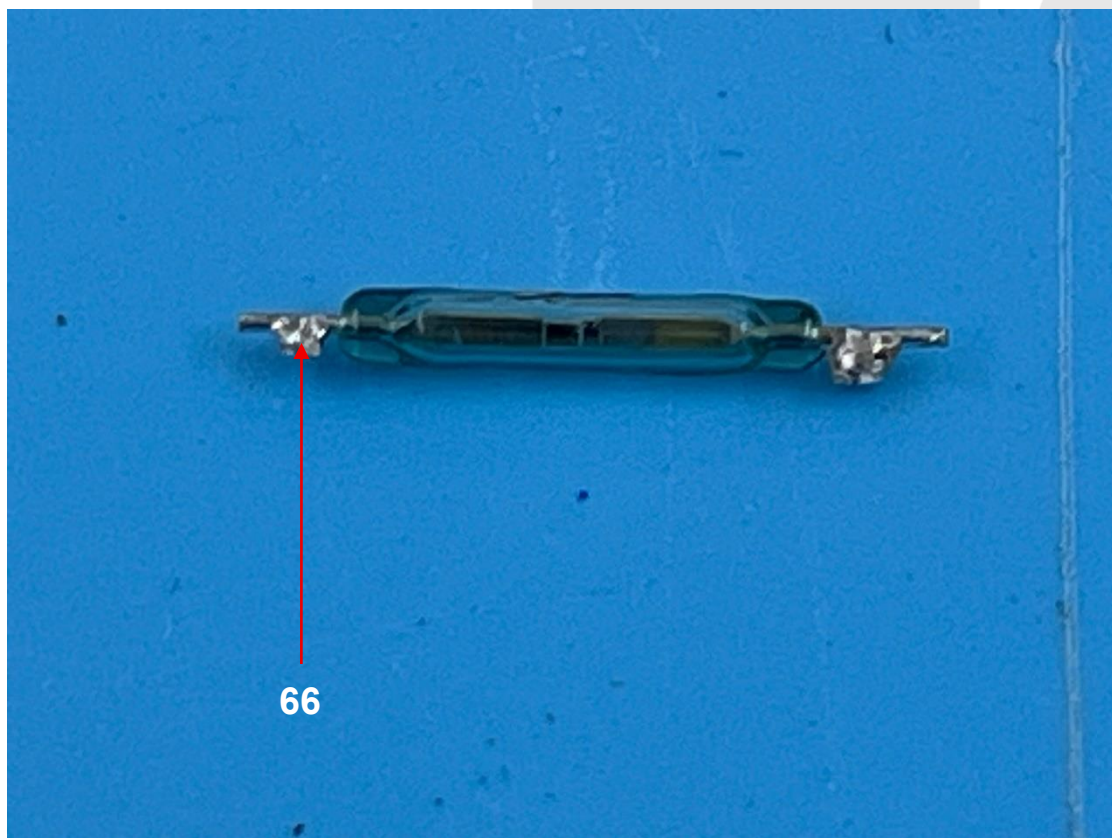
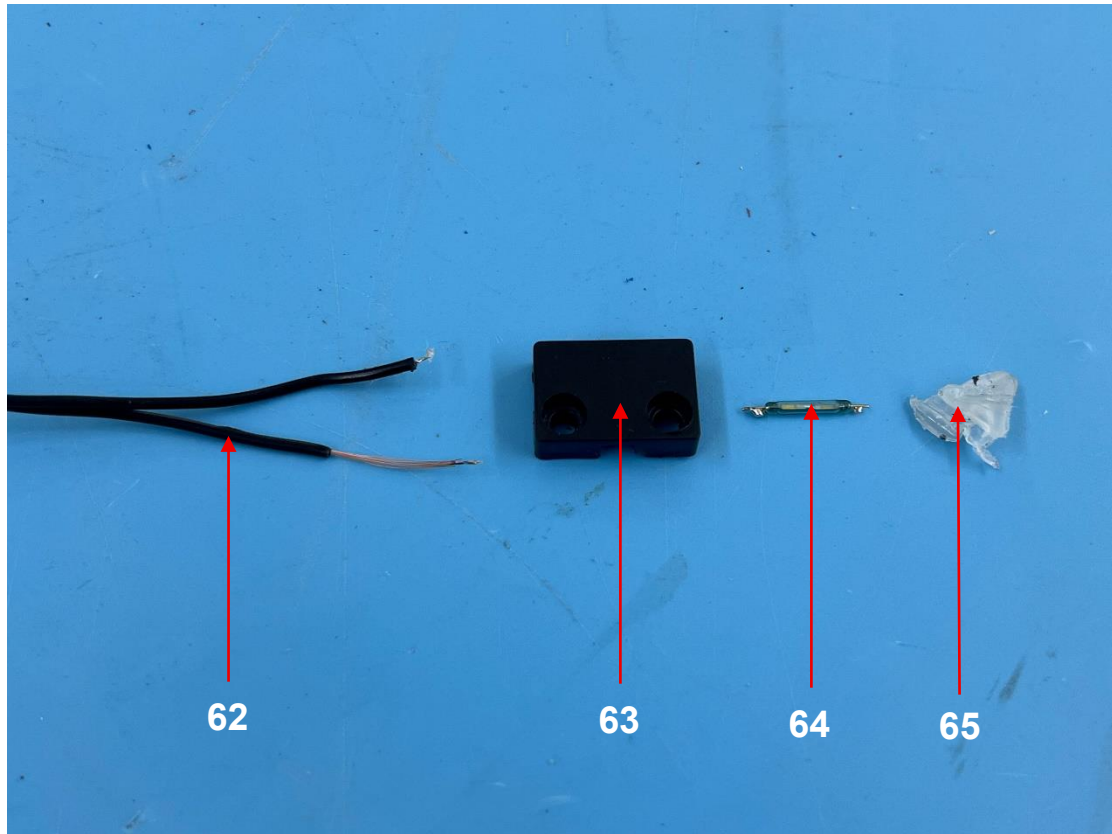


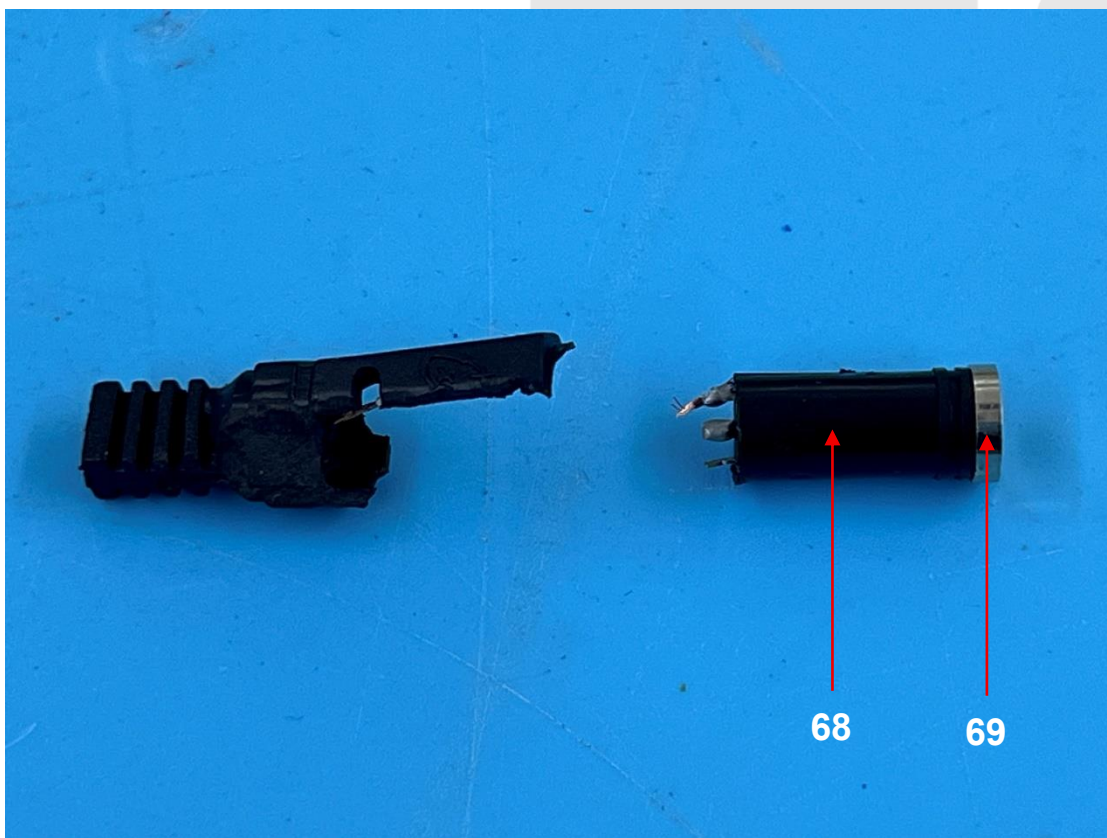
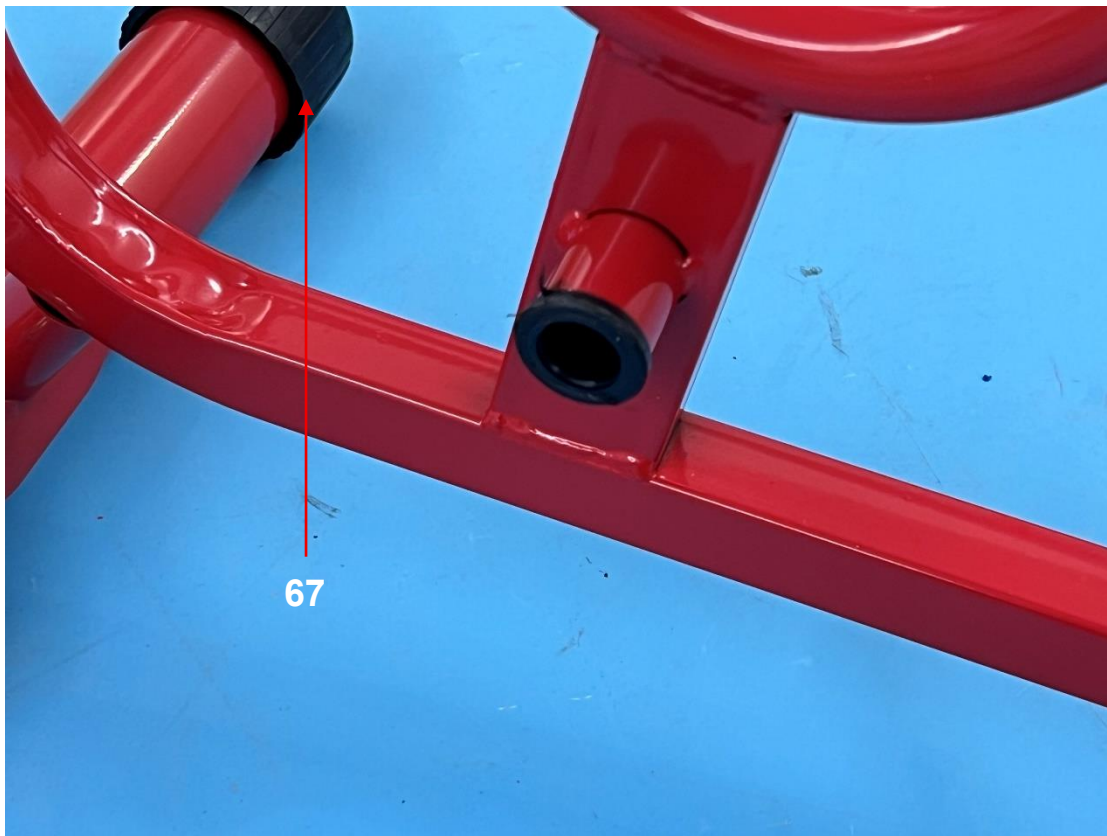


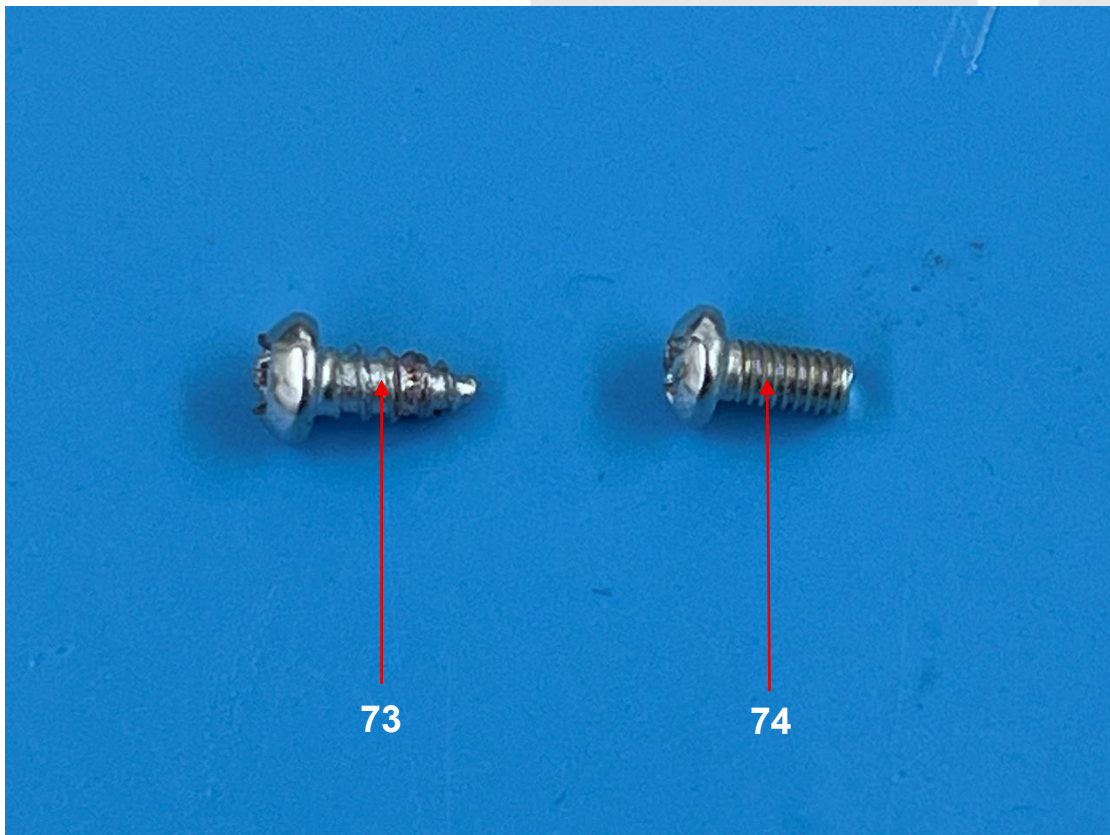
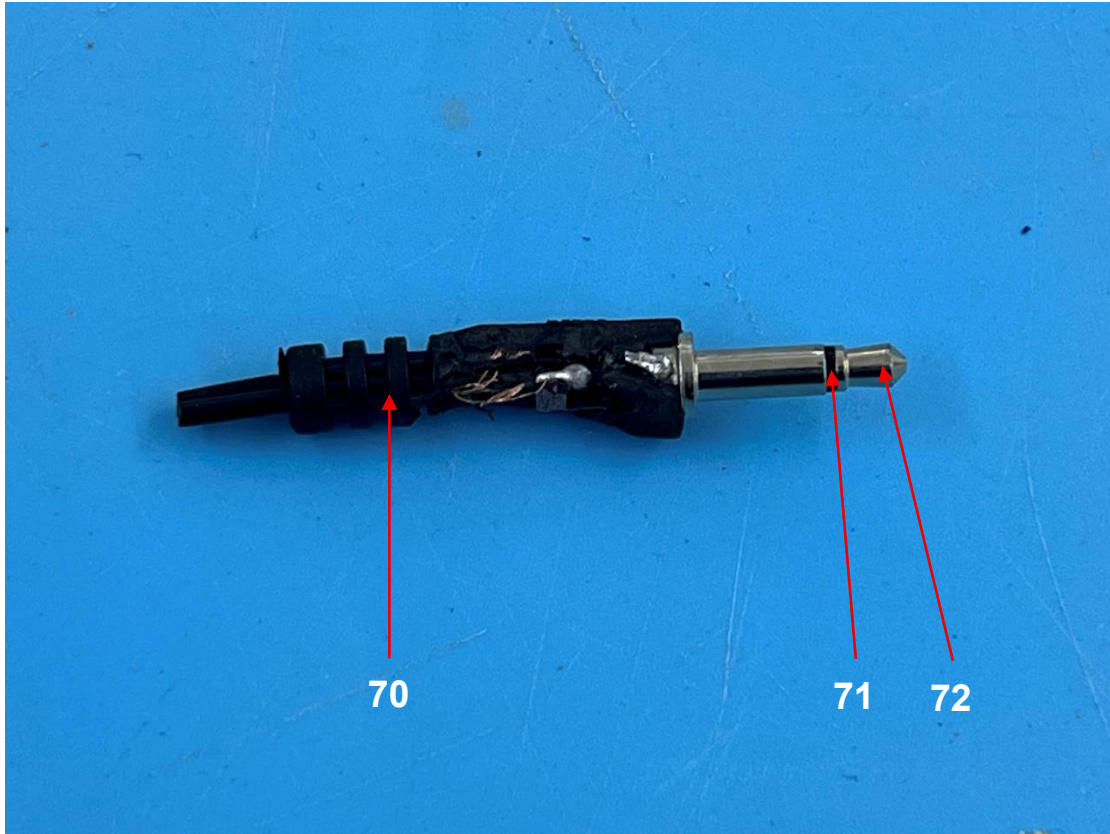


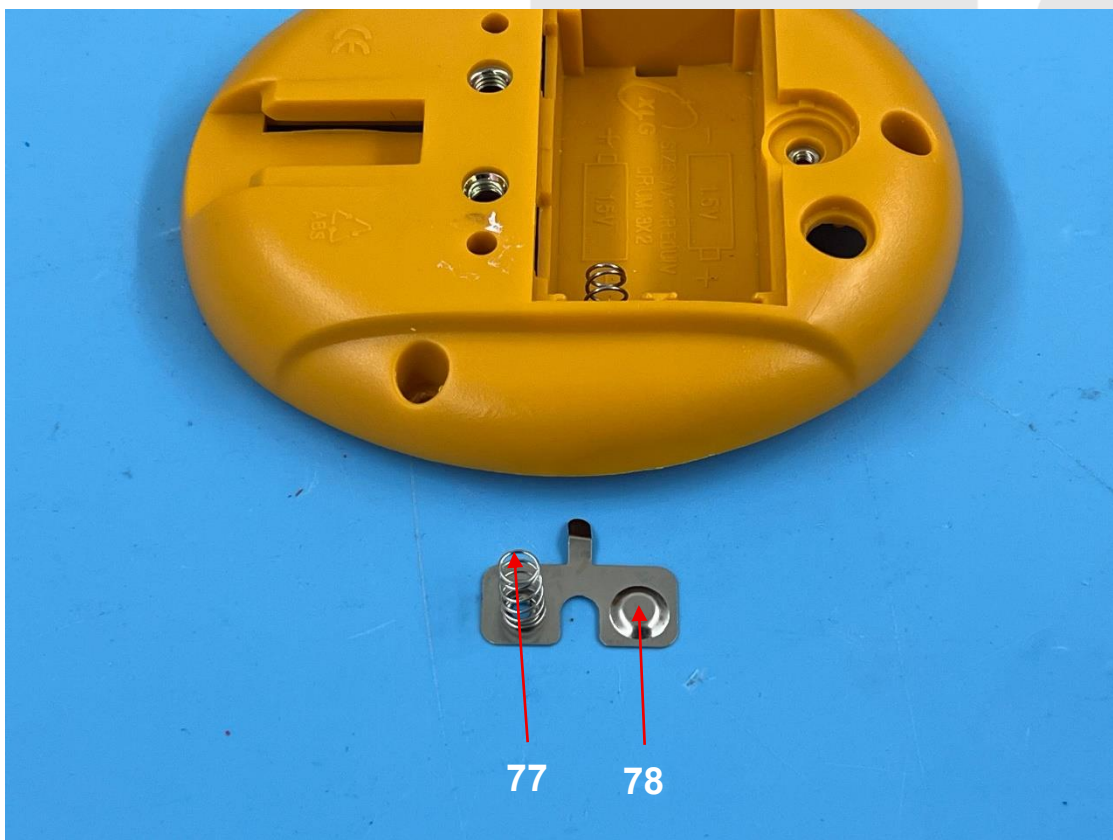


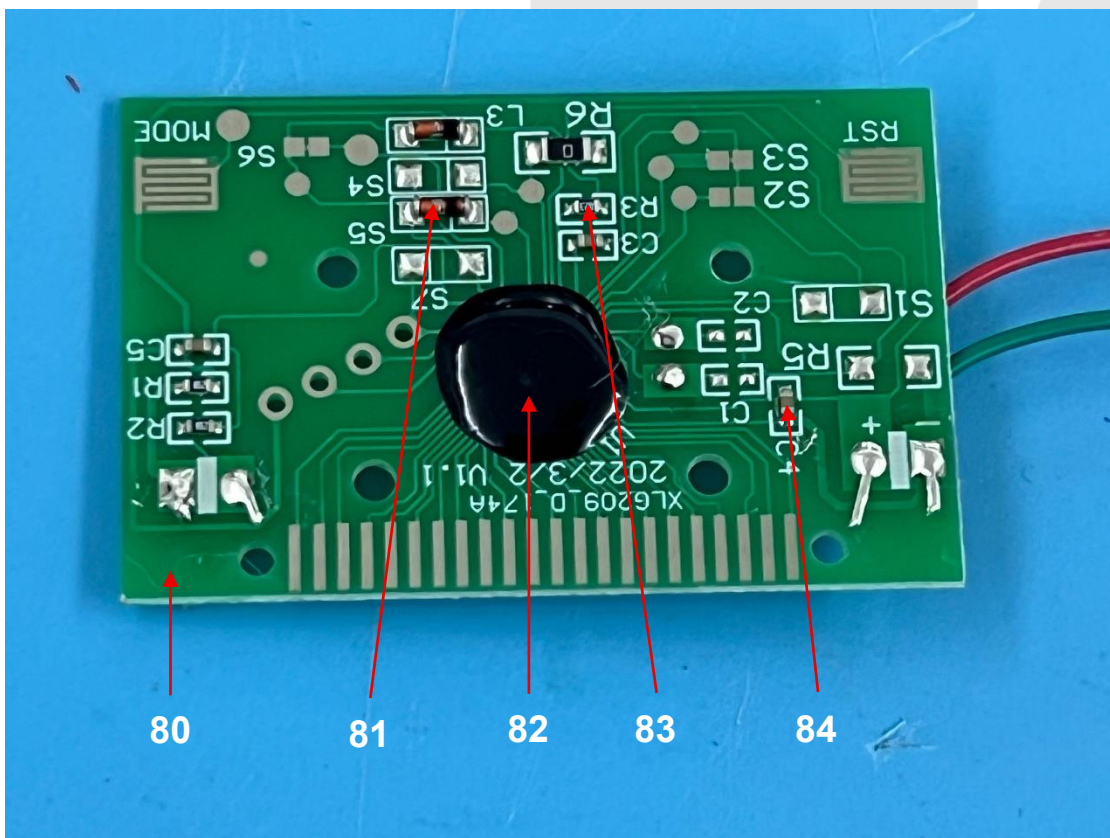
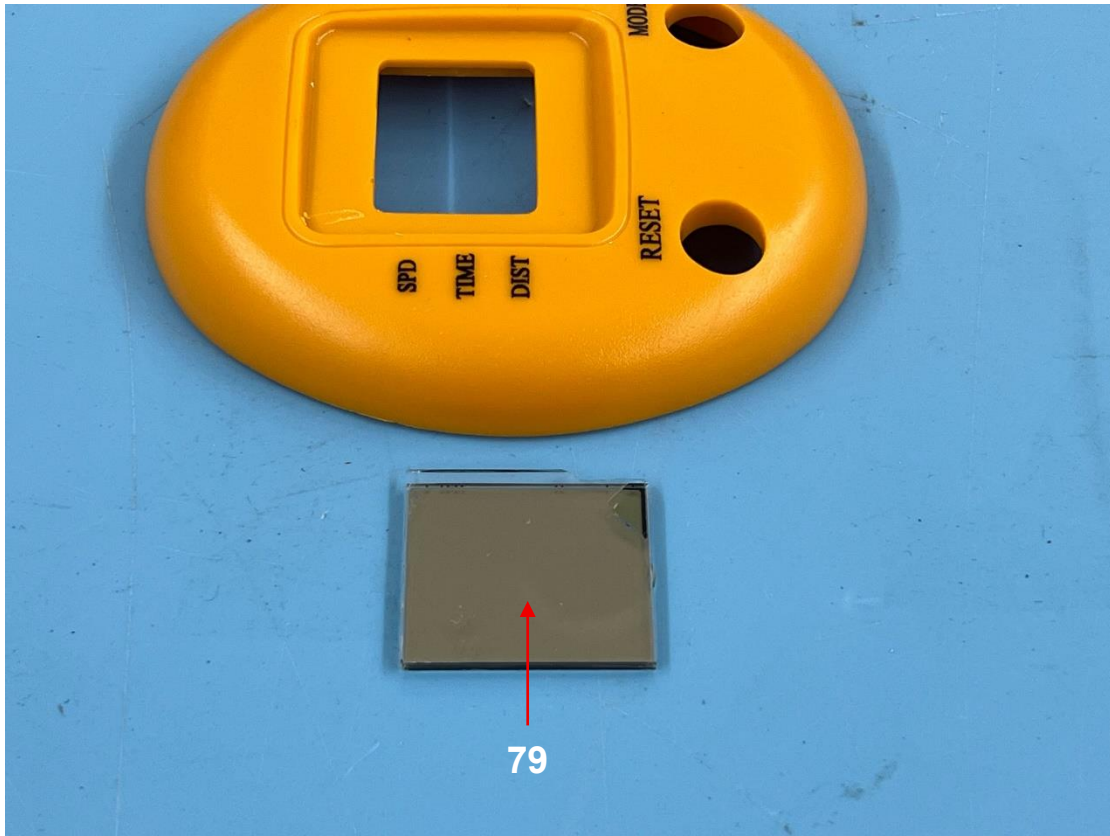


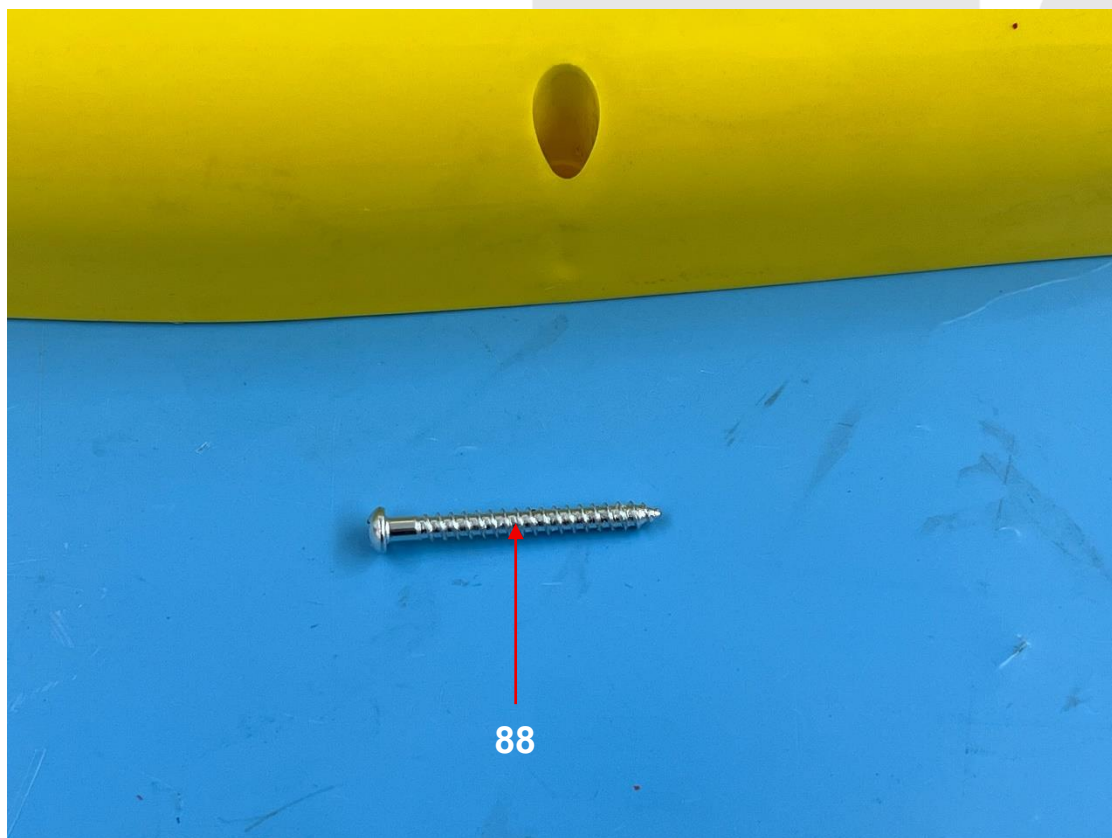
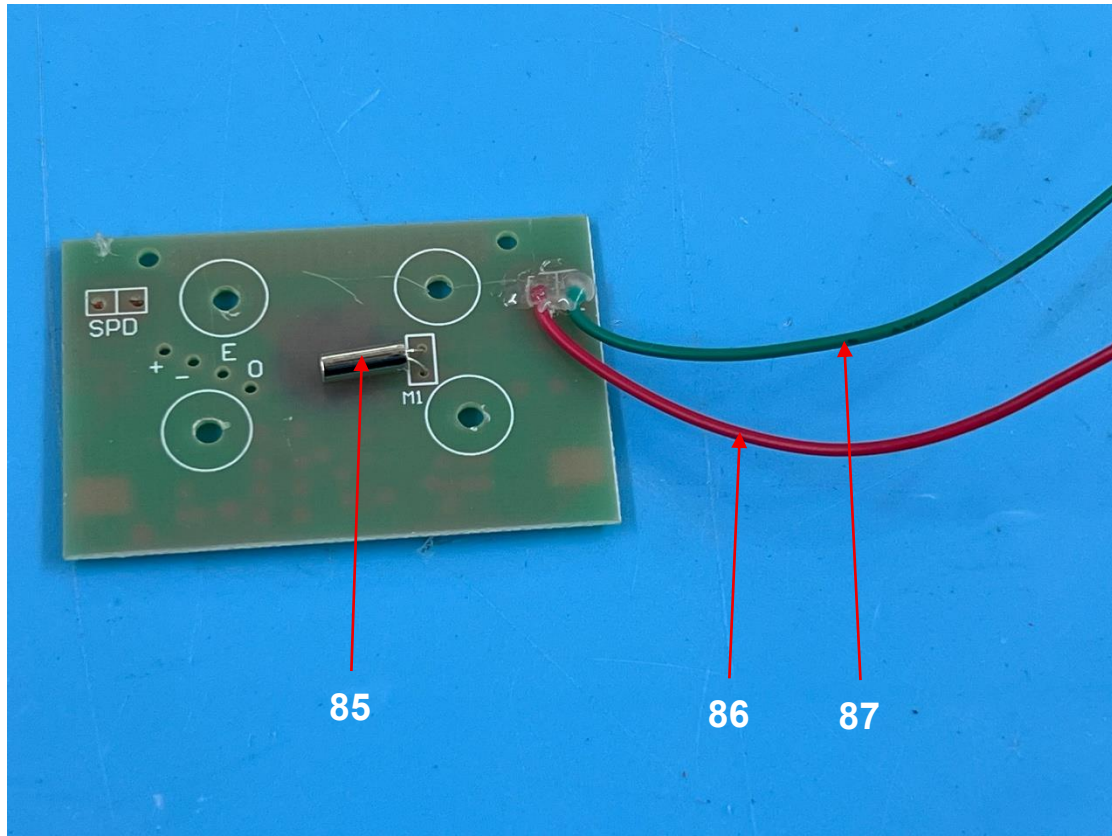


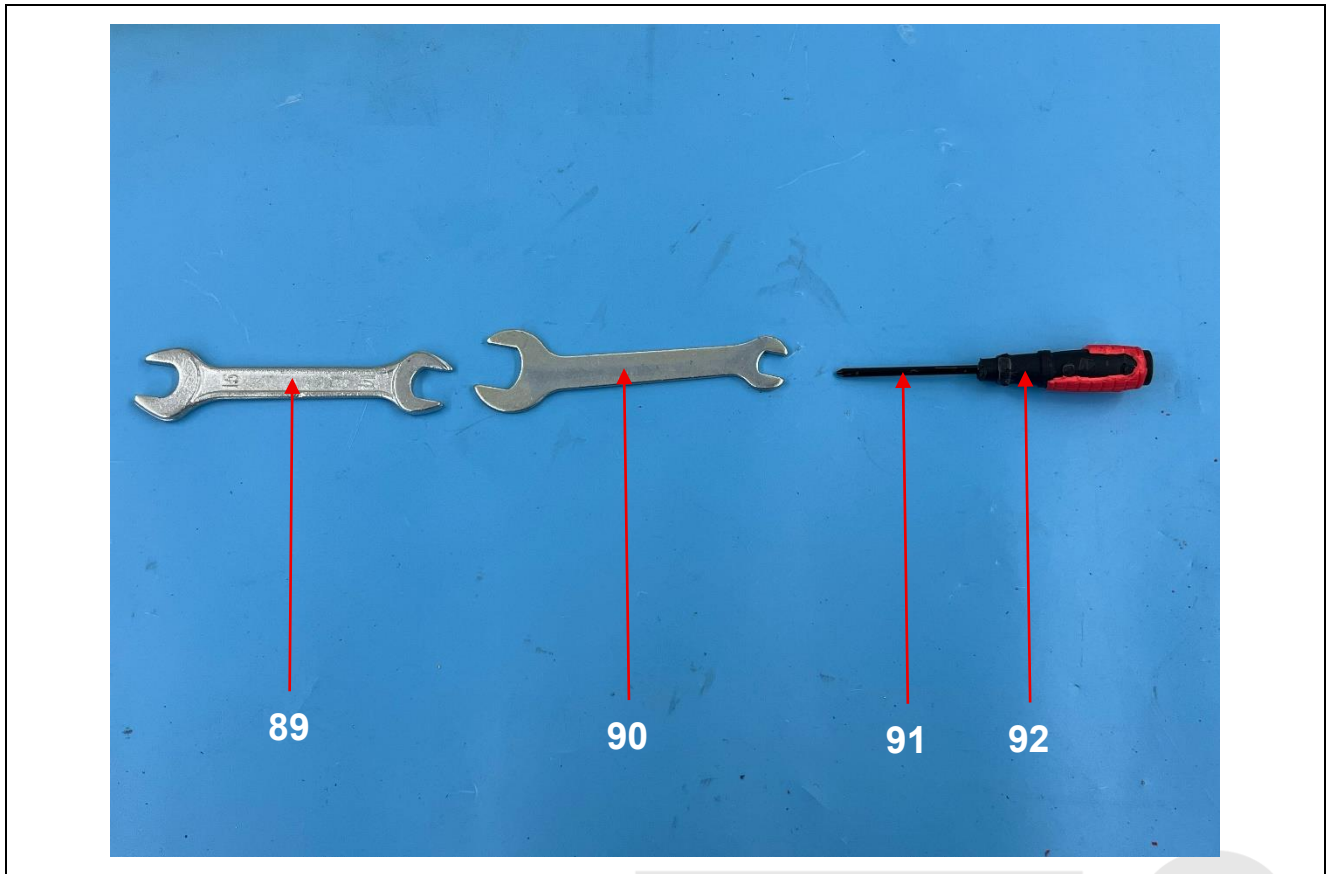




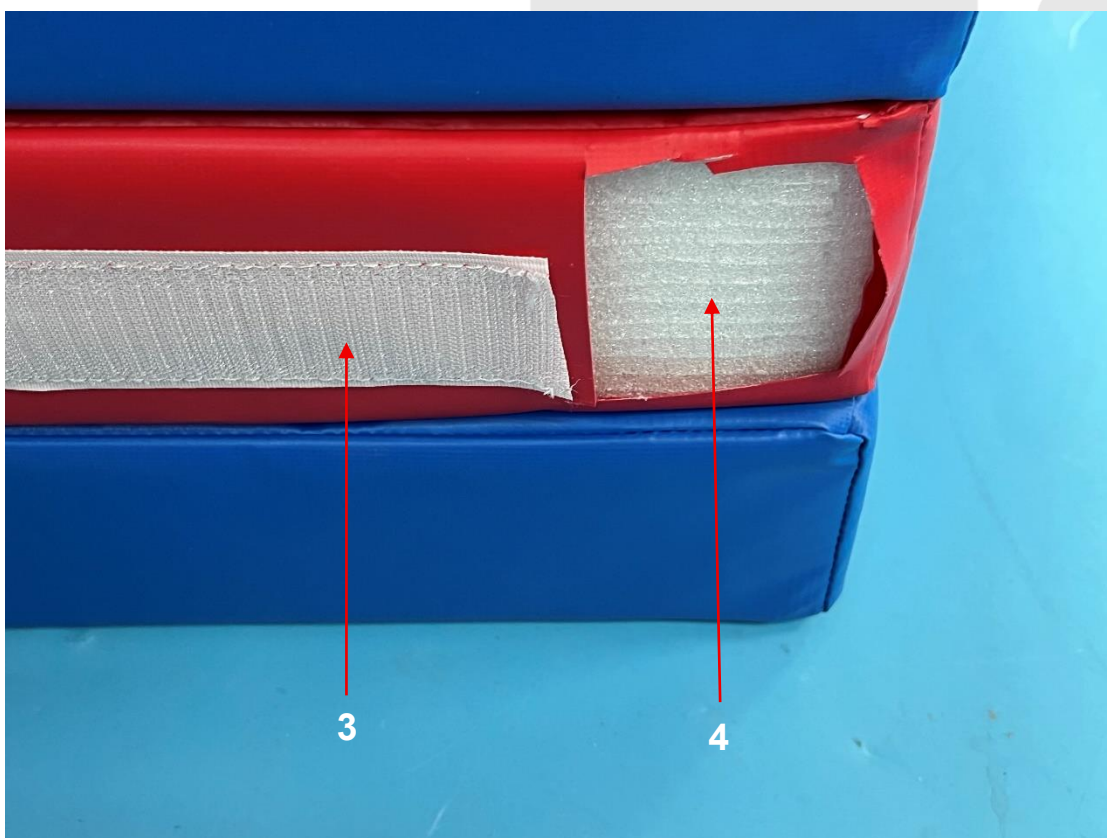
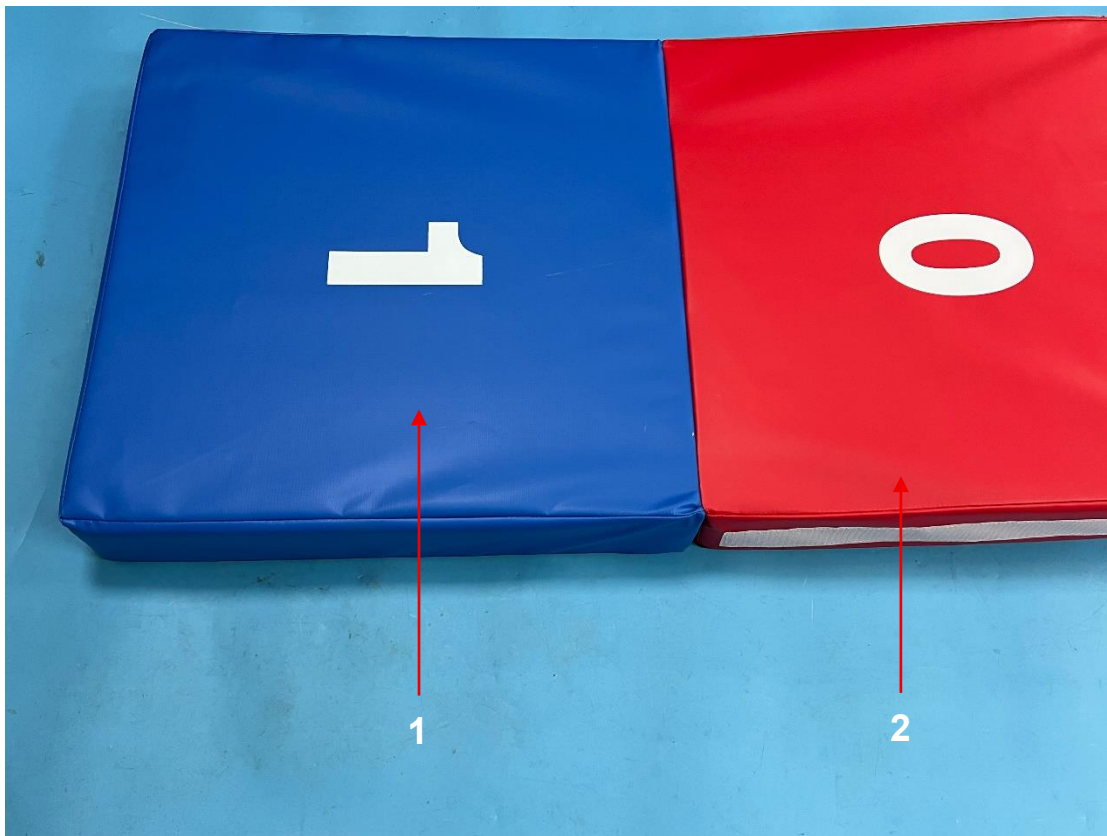


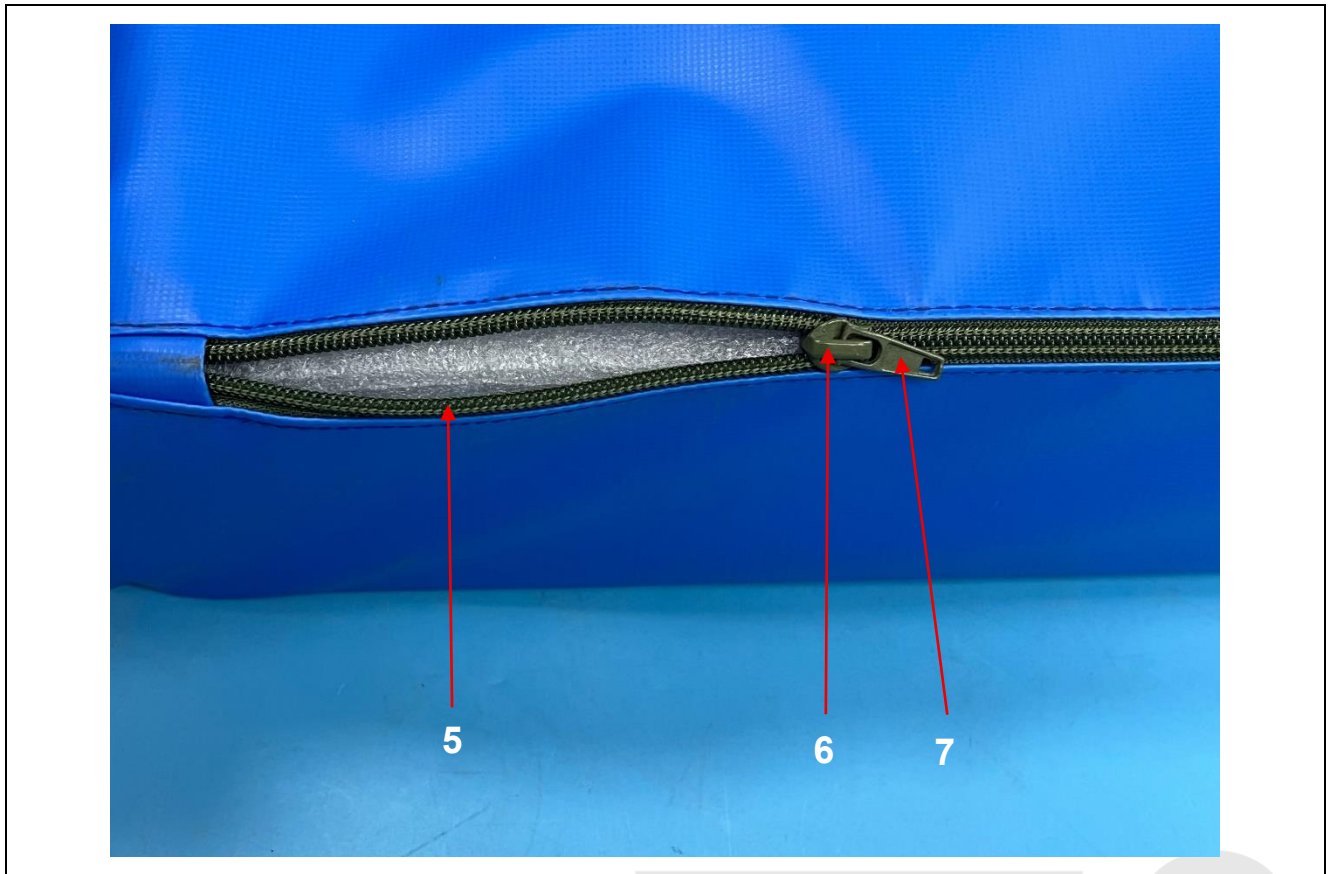






**Sample photo list--B**





## 2. Sample description

Sample No.	Description
A1	Red coating
A2	Silvery metal
A3	Yellow plastic
A4	Creamy white plastic
A5	Silvery metal
A6	Red synthetic leather
A7	Silvery metal
A8	Silvery metal
A9	Silvery metal
A10	Silvery metal
A11	Dark gray foam
A12	Black foam
A13	Dark blue foam
A14	Black plastic
A15	Silvery metal
A16	Silvery metal
A17	Black plastic
A18	Black plastic
A19	Black plating silvery metal
A20	Translucence dark yellow plastic
A21	White plastic
A22	Black plastic
A23	Silvery metal
A24	Silvery metal
A25	Dark blue coating
A26	Silvery metal
A27	Black plastic
A28	Silvery metal
A29	Silvery metal
A30	Silvery metal
A31	Silvery metal
A32	Silvery metal
A33	Black plastic
A34	Silvery metal
A35	Black plastic
A36	Silvery metal
A37	Dark gray metal

A38	White plastic
A39	Black plating silvery metal
A40	Silvery metal
A41	Silvery metal
A42	Silvery metal
A43	Silvery metal
A44	Silvery metal
A45	Silvery metal
A46	Black soft plastic
A47	Silvery metal
A48	Silvery metal
A49	Silvery metal
A50	Black fabric
A51	Silvery metal
A52	Silvery metal
A53	Silvery metal
A54	Black plastic
A55	Silvery metal
A56	Black plastic
A57	Silvery metal
A58	Black plating silvery metal
A59	Dark gray lodestone
A60	Blue plastic
A61	Black plastic
A62	Black soft plastic
A63	Black plastic
A64	Fuse
A65	Translucence white glue
A66	Soldering tin
A67	Black plastic
A68	Black plastic
A69	Silvery metal
A70	Black soft plastic
A71	Black plastic
A72	Silvery metal
A73	Silvery metal
A74	Silvery metal
A75	Orange plastic
A76	Silvery metal

A77	Silvery metal
A78	Silvery metal
A79	Glass
A80	Green PCB
A81	SMD inductor
A82	Black glue
A83	SMD resistor
A84	SMD capacitor
A85	Crystal oscillator
A86	Red soft plastic
A87	Green soft plastic
A88	Silvery metal
A89	Silvery metal
A90	Silvery metal
A91	Black plating silvery metal
A92	Black plastic
B1	Blue/white soft plastic
B2	Red/white soft plastic
B3	White plastic
B4	White foam
B5	Dark green plastic
B6	Dark green plating silvery metal
B7	Dark green plating silvery metal

### 3. Test Result(s)

#### 3.1 Screening Test

Test Method: With reference to IEC 62321-3-1:2013, Screening –Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Total Chromium(Cr)/ Total Bromine by X-ray fluorescence spectrometry.

Test Item	Total Chromium (Cr)	Cadmium (Cd)	Total Bromine (Br)	Mercury (Hg)	Lead (Pb)
Screening Limit	200mg/kg	50mg/kg	200mg/kg	200mg/kg	200mg/kg
Material No.	XRF Result				
A1	BL	BL	BL	BL	BL
A2	793 <sup>a</sup>	BL	NA	BL	BL
A3	BL	3706 <sup>a</sup>	BL	BL	BL
A4	BL	BL	BL	BL	BL
A5	BL	BL	NA	BL	BL
A6	BL	BL	BL	BL	BL
A7	BL	BL	NA	BL	BL
A8	BL	BL	NA	BL	238 <sup>a</sup>
A9	766 <sup>a</sup>	BL	NA	BL	BL
A10	1103 <sup>a</sup>	BL	NA	BL	BL
A11	BL	BL	BL	BL	BL
A12	BL	592 <sup>a</sup>	BL	BL	BL
A13	BL	BL	BL	BL	BL
A14	BL	BL	BL	BL	BL
A15	BL	BL	NA	BL	BL
A16	BL	BL	NA	BL	BL
A17	BL	BL	BL	BL	BL
A18	BL	BL	BL	BL	BL
A19	BL	BL	NA	BL	271 <sup>a</sup>
A20	BL	BL	BL	BL	BL
A21	BL	115 <sup>a</sup>	BL	BL	BL
A22	BL	BL	BL	BL	BL
A23	BL	BL	NA	BL	BL
A24	655 <sup>a</sup>	BL	NA	BL	BL
A25	BL	BL	BL	BL	BL
A26	BL	BL	NA	BL	BL
A27	BL	BL	BL	BL	BL
A28	BL	BL	NA	BL	BL
A29	BL	BL	NA	BL	BL
A30	BL	BL	NA	BL	BL
A31	BL	BL	NA	BL	224 <sup>a</sup>

A32	BL	BL	NA	BL	BL
A33	BL	BL	BL	BL	BL
A34	BL	BL	NA	BL	BL
A35	BL	BL	BL	BL	BL
A36	BL	BL	NA	BL	BL
A37	BL	BL	NA	BL	BL
A38	BL	BL	BL	BL	BL
A39	BL	BL	NA	BL	BL
A40	BL	51 <sup>a</sup>	NA	BL	BL
A41	2350 <sup>a</sup>	BL	NA	BL	BL
A42	BL	BL	NA	BL	BL
A43	BL	BL	NA	BL	BL
A44	935 <sup>a</sup>	BL	NA	BL	BL
A45	BL	BL	NA	BL	349 <sup>a</sup>
A46	BL	BL	BL	BL	BL
A47	BL	BL	NA	BL	BL
A48	BL	BL	NA	BL	BL
A49	BL	844 <sup>a</sup>	NA	BL	BL
A50	BL	BL	BL	BL	BL
A51	BL	BL	NA	BL	BL
A52	2844 <sup>a</sup>	BL	NA	BL	BL
A53	BL	BL	NA	BL	BL
A54	BL	BL	219 <sup>a</sup>	BL	BL
A55	603 <sup>a</sup>	54 <sup>a</sup>	NA	BL	BL
A56	BL	BL	BL	BL	BL
A57	BL	BL	NA	BL	BL
A58	BL	BL	NA	BL	268 <sup>a</sup>
A59	BL	BL	NA	BL	BL
A60	BL	BL	BL	BL	BL
A61	BL	BL	263 <sup>a</sup>	BL	BL
A62	BL	BL	BL	BL	BL
A63	BL	BL	719 <sup>a</sup>	BL	BL
A64	BL	BL	BL	BL	BL
A65	BL	BL	BL	BL	BL
A66	BL	BL	NA	BL	BL
A67	BL	BL	BL	BL	BL
A68	BL	BL	BL	BL	BL
A69	BL	BL	NA	BL	14014 <sup>a</sup>
A70	BL	BL	BL	BL	BL

A71	BL	BL	BL	BL	BL
A72	BL	BL	NA	BL	1107 <sup>a</sup>
A73	BL	BL	NA	BL	219 <sup>a</sup>
A74	BL	BL	NA	BL	BL
A75	BL	BL	BL	BL	BL
A76	BL	BL	NA	BL	BL
A77	BL	BL	NA	BL	BL
A78	BL	BL	NA	BL	201 <sup>a</sup>
A79	BL	BL	NA	BL	BL
A80	BL	BL	541 <sup>a</sup>	BL	BL
A81	BL	BL	BL	BL	BL
A82	BL	BL	BL	BL	BL
A83	BL	BL	BL	BL	BL
A84	BL	BL	BL	BL	BL
A85	BL	BL	BL	BL	BL
A86	BL	BL	BL	BL	BL
A87	BL	BL	BL	BL	BL
A88	BL	BL	NA	BL	BL
A89	799 <sup>a</sup>	BL	NA	BL	BL
A90	BL	BL	NA	BL	BL
A91	987 <sup>a</sup>	BL	NA	BL	459 <sup>a</sup>
A92	BL	BL	BL	BL	BL
B1	BL	BL	BL	BL	BL
B2	BL	BL	BL	BL	BL
B3	BL	BL	BL	BL	BL
B4	BL	29099 <sup>a</sup>	BL	BL	BL
B5	BL	BL	275 <sup>a</sup>	BL	BL
B6	BL	BL	NA	BL	BL
B7	BL	BL	NA	BL	BL

- Note:
1. mg/kg = milligram per kilogram.
  2. "BL" = Below Screening Limit.
  3. "NA" = Not Applicable.
  4. "a" denotes further confirmation test was conducted, results are listed in 3.2 and 3.3.

### 3.2 Heavy Metal Content

#### Test Method:

Lead (Pb)/Cadmium(Cd): IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Mercury(Hg): IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium(Cr<sup>6+</sup>): metal: IEC 62321-7-1:2015, nonmetal: IEC 62321-7-2:2017, analysis was performed by Ultraviolet-visible spectroscopy (UV-Vis).

Test Item	Hexavalent Chromium (Cr <sup>6+</sup> )	Hexavalent Chromium (Cr <sup>6+</sup> )	Cadmium (Cd)	Mercury (Hg)	Lead (Pb)
Limit	1000 mg/kg	Negative	100 mg/kg	1000 mg/kg	1000 mg/kg
Material No.	Result				
A2	NA	Negative	--	--	--
A3	--	--	N.D.	--	--
A8	--	--	--	--	N.D.
A9	NA	Negative	--	--	--
A10	NA	Negative	--	--	--
A12	--	--	N.D.	--	--
A19	--	--	--	--	N.D.
A21	--	--	N.D.	--	--
A24	NA	Negative	--	--	--
A31	--	--	--	--	N.D.
A40	--	--	N.D.	--	--
A41	NA	Negative	--	--	--
A44	NA	Negative	--	--	--
A45	--	--	--	--	N.D.
A49	--	--	N.D.	--	--
A52	NA	Negative	--	--	--
A55	NA	Negative	N.D.	--	--
A58	--	--	--	--	N.D.
A69#	--	--	--	--	23650
A72	--	--	--	--	44
A73	--	--	--	--	N.D.
A78	--	--	--	--	N.D.
A89	NA	Negative	--	--	--
A91	NA	Negative	--	--	N.D.

B4	--	--	N.D.	--	--
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- Note:**
1. RL (Report Limit) = Pb, Cd, Hg: 10mg/kg;Cr<sup>6+</sup>: nonmetal -10mg/kg, metal- Negative(<0.1µg/cm<sup>2</sup>).
  2. mg/kg = milligram per kilogram, µg/cm<sup>2</sup>= micrograms per square centimeter.
  3. N.D. = Not Detected (< RL).
  4. NA = Not Applicable.
  5. Negative = Surface of metal sample absence of Cr<sup>6+</sup>, Positive = Surface of metal sample presence of Cr<sup>6+</sup>.
  6. "--" denotes tested by XRF, result is listed in 3.1.

**Remark:** (#) = As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive(2011/65/EU),Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.



### 3.3 Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) Content

Test Method: IEC 62321-6:2015, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	Limit (mg/kg)	RL (mg/kg)	Result(mg/kg)					
			A54	A61	A63	A80	B5	
<b>PBBs</b>	Monobromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Dibromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Tribromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Tetrabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Pentabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Hexabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Heptabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Octabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Nonabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Decabromobiphenyl	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	<b>Sum of detected PBBs</b>	1000	--	N.D.	N.D.	N.D.	N.D.	N.D.
<b>PBDEs</b>	Monobromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Dibromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Tribromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Tetrabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Pentabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Hexabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Heptabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Octabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Nonabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	Decabromodiphenylether	--	5	N.D.	N.D.	N.D.	N.D.	N.D.
	<b>Sum of detected PBDEs</b>	1000	--	N.D.	N.D.	N.D.	N.D.	N.D.

- Note:
1. mg/kg = milligram per kilogram.
  2. RL = Report Limit
  3. N.D. = Not Detected (< RL).
  4. "--" = Not Applicable.

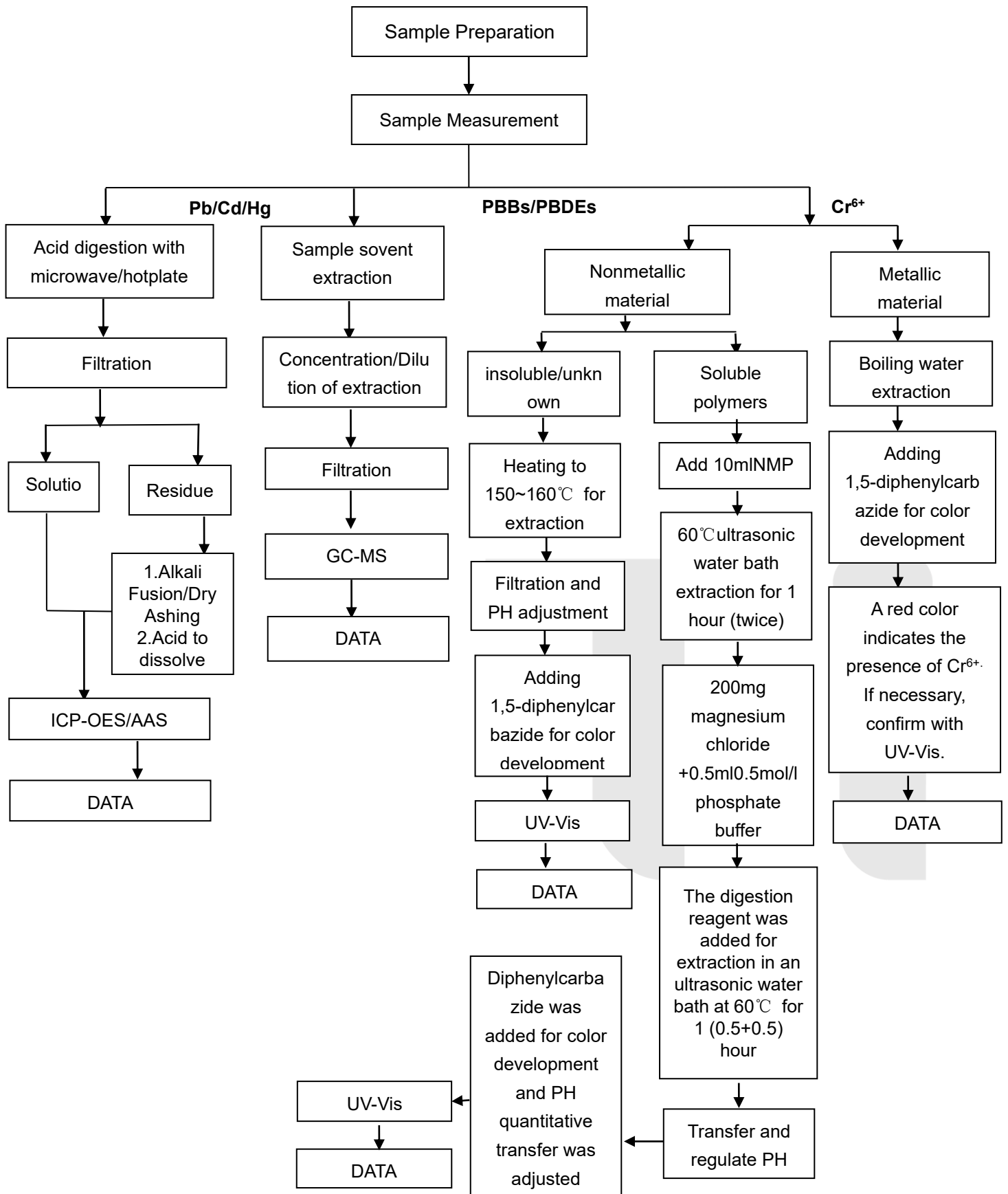
### 3.4 Phthalates Content

Test Method: IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	Di-(2-ethylhexyl) phthalate (DEHP)	Dibutyl phthalate (DBP)	Butyl benzyl phthalate (BBP)	Diisobutyl phthalate (DIBP)
<b>CAS No.</b>	117-81-7	84-74-2	85-68-7	84-69-5
<b>Limit</b>	1000 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg
<b>Material No.</b>	<b>Result (mg/kg)</b>			
A3+A4+A11	N.D.	N.D.	N.D.	N.D.
A12+A13+A14	N.D.	N.D.	N.D.	N.D.
A17+A18+A20	N.D.	N.D.	N.D.	N.D.
A21+A22+A27	N.D.	N.D.	N.D.	N.D.
A33+A35+A38	N.D.	N.D.	N.D.	N.D.
A50+A54+A56	N.D.	N.D.	N.D.	N.D.
A60+A61+A63	N.D.	N.D.	N.D.	N.D.
A65+A68+A71	N.D.	N.D.	N.D.	N.D.
A75+A82+A92	N.D.	N.D.	N.D.	N.D.
B3+B4+B5	N.D.	N.D.	N.D.	N.D.
A80	N.D.	N.D.	N.D.	N.D.
A1+A25	N.D.	N.D.	N.D.	N.D.
A46	N.D.	N.D.	N.D.	N.D.
A62+A67	N.D.	N.D.	N.D.	N.D.
A70+A86+B7	N.D.	N.D.	N.D.	N.D.
B1+B2	159	N.D.	N.D.	N.D.

- Note:
1. mg/kg = milligram per kilogram
  2. Report Limit = 50mg/kg
  3. N.D. = Not Detected (< RL)

### RoHS Testing Flow Chart



### Phthalates Testing Flow Chart

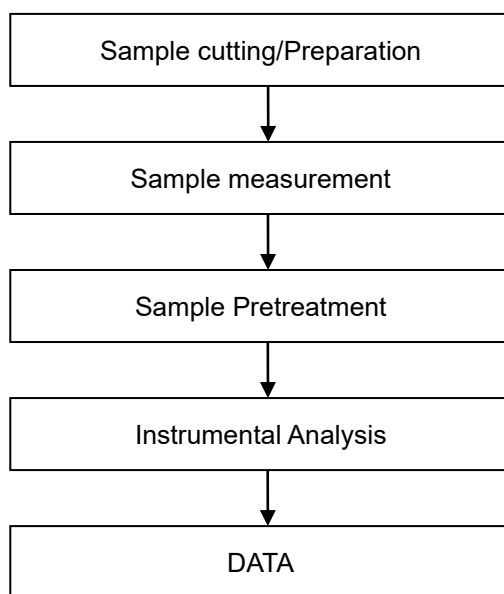
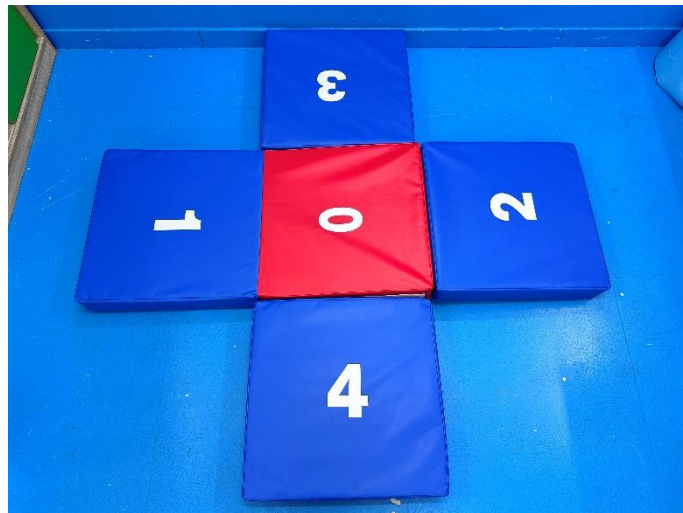


Photo of Sample



Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
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\*\*\*End of Report\*\*\*

