

Verification Report No.: TAOEC24001863201

Date: Apr 19, 2024

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Client Name: GRAND FOREST ELECTRICAL CO.,LTD

Client Address: Bldg.4,Kechuang Center,Henglin Town, Wujin District, Changzhou,Jiangsu, China.

Sample Name: BOOSTER PUMP

Model No.: GF

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

SGS Job No.: SHP24-009686

Sample Receiving Date: Apr 09, 2024

Verification Period: Apr 09, 2024 ~ Apr 17, 2024

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 (PBB), Polybrominated diphenyl ethers (PBDE), 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 (Qingdao) Co., Ltd.



Alice Sun
Approved Signatory

scan to see the report



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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, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.

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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	TAO24-0018632-0001.C001	Colorful plastic(label)
SN2	A2	TAO24-0018632-0001.C002	Silvery metal(screw)
SN3	A3	TAO24-0018632-0001.C003	Black plastic
SN4	A4	TAO24-0018632-0001.C004	Silvery metal
SN5	A5	TAO24-0018632-0001.C005	Silvery metal(screw)
SN6	A6	TAO24-0018632-0001.C006	Black rubber
SN7	A7	TAO24-0018632-0001.C007	Silvery metal(spring)
SN8	A8	TAO24-0018632-0001.C008	White rubber
SN9	A9	TAO24-0018632-0001.C009	Black plastic
SN10	A10	TAO24-0018632-0001.C010	Black rubber
SN11	A11	TAO24-0018632-0001.C011	White rubber
SN12	A12	TAO24-0018632-0001.C012	Black rubber
SN13	A13	TAO24-0018632-0001.C013	Beige plastic
SN14	A14	TAO24-0018632-0001.C014	Silvery metal(screw)
SN15	A15	TAO24-0018632-0001.C015	Black plastic
SN16	A16	TAO24-0018632-0001.C016	Black surfaced metal
SN17	A17	TAO24-0018632-0001.C017	White rubber
SN18	A18	TAO24-0018632-0001.C018	Black coating
SN19	A19	TAO24-0018632-0001.C019	Black rubber
SN20	A20	TAO24-0018632-0001.C020	Silvery metal(gasket)
SN21	A21	TAO24-0018632-0001.C021	Silvery metal(gasket)
SN22	A22	TAO24-0018632-0001.C022	Silvery metal(screw)
SN23	A23	TAO24-0018632-0001.C023	Silvery metal
SN24	A24	TAO24-0018632-0001.C024	White paster
SN25	A25	TAO24-0018632-0001.C025	Black plastic
SN26	A26	TAO24-0018632-0001.C026	Silvery metal(screw)
SN27	A27	TAO24-0018632-0001.C027	Black rubber
SN28	A28	TAO24-0018632-0001.C028	Silvery plastic(label)
SN29	A29	TAO24-0018632-0001.C029	Red plastic
SN30	A30	TAO24-0018632-0001.C030	Black metal(gasket)
SN31	A31	TAO24-0018632-0001.C031	Gray metal
SN32	A32	TAO24-0018632-0001.C032	Silvery metal(spring)
SN33	A33	TAO24-0018632-0001.C033	Silvery metal
SN34	A34	TAO24-0018632-0001.C034	Silvery metal
SN35	A35	TAO24-0018632-0001.C035	Silvery metal
SN36	A36	TAO24-0018632-0001.C036	Silvery metal(ball)
SN37	A37	TAO24-0018632-0001.C037	Brown plastic
SN38	A38	TAO24-0018632-0001.C038	Silvery metal
SN39	A39	TAO24-0018632-0001.C039	Black surfaced metal
SN40	A40	TAO24-0018632-0001.C040	Silvery metal
SN41	A41	TAO24-0018632-0001.C041	Copper-colored metal
SN42	A42	TAO24-0018632-0001.C042	Silvery metal
SN43	A43	TAO24-0018632-0001.C043	Black plastic
SN44	A44	TAO24-0018632-0001.C044	Black plastic
SN45	A45	TAO24-0018632-0001.C045	White plastic
SN46	A46	TAO24-0018632-0001.C046	Silvery metal
SN47	A47	TAO24-0018632-0001.C047	Silvery metal
SN48	A48	TAO24-0018632-0001.C048	Black plastic

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SN ID	Sample No.	SGS Sample ID	Description
SN49	A49	TAO24-0018632-0001.C049	Black rubber
SN50	A50	TAO24-0018632-0001.C050	Silvery metal
SN51	A51	TAO24-0018632-0001.C051	Silvery metal(ball)
SN52	A52	TAO24-0018632-0001.C052	Silvery metal
SN53	A53	TAO24-0018632-0001.C053	Yellow plastic
SN54	A54	TAO24-0018632-0001.C054	Silvery metal
SN55	A55	TAO24-0018632-0001.C055	Black surfaced metal
SN56	A56	TAO24-0018632-0001.C056	Black plastic(jacket)
SN57	A57	TAO24-0018632-0001.C057	Red plastic(jacket)
SN58	A58	TAO24-0018632-0001.C058	Transparent adhesive
SN59	A59	TAO24-0018632-0001.C059	Silvery metal
SN60	A60	TAO24-0018632-0001.C060	Black coating
SN61	A61	TAO24-0018632-0001.C061	Silvery metal

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Verification Result(s):

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
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL	ND	BL	ND	ND	BL	ND	BL
PBB	BL	---	BL	---	---	BL	---	BL
PBDE	BL	---	BL	---	---	BL	---	BL
DBP	BL	---	BL	---	---	BL	---	BL
BBP	BL	---	BL	---	---	BL	---	BL
DEHP	BL	---	BL	---	---	BL	---	BL
DIBP	BL	---	BL	---	---	BL	---	BL
Conclusion	PASS							

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Cd	BL	ND						
Pb	BL	46						
Hg	BL							
Cr(VI)▼	BL	BL	BL	BL	BL	ND	BL	ND
PBB	BL	BL	BL	BL	BL	---	BL	---
PBDE	BL	BL	BL	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							

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL	BL	BL	ND	ND	ND	BL	BL
PBB	BL	BL	BL	---	---	---	---	BL
PBDE	BL	BL	BL	---	---	---	---	BL
DBP	BL	BL	BL	---	---	---	---	BL
BBP	BL	BL	BL	---	---	---	---	BL
DEHP	BL	BL	BL	---	---	---	---	BL
DIBP	BL	BL	BL	---	---	---	---	BL
Conclusion	PASS							

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Cd	BL							
Pb	BL	BL	BL	BL	BL	BL	204	BL
Hg	BL							
Cr(VI)▼	BL	ND	BL	BL	BL	BL	ND	ND

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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	BL	---	BL	BL	BL	---	---	---
PBDE	BL	---	BL	BL	BL	---	---	---
DBP	BL	---	BL	BL	BL	---	---	---
BBP	BL	---	BL	BL	BL	---	---	---
DEHP	BL	---	BL	BL	BL	---	---	---
DIBP	BL	---	BL	BL	BL	---	---	---
Conclusion	PASS							

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Cd	BL	BL	BL	BL	BL	36	13	BL
Pb	BL	BL	BL	BL	BL	715	30	BL
Hg	BL							
Cr(VI)▼	BL	ND	ND	ND	BL	ND	ND	ND
PBB	---	---	---	---	BL	---	---	---
PBDE	---	---	---	---	BL	---	---	---
DBP	---	---	---	---	BL	---	---	---
BBP	---	---	---	---	BL	---	---	---
DEHP	---	---	---	---	BL	---	---	---
DIBP	---	---	---	---	BL	---	---	---
Conclusion	PASS							

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

Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL	BL	ND	BL	BL	BL	BL	BL
PBB	BL	---	---	---	ND	---	---	BL
PBDE	BL	---	---	---	ND	---	---	BL
DBP	BL	---	---	---	ND	---	---	BL
BBP	BL	---	---	---	ND	---	---	BL
DEHP	BL	---	---	---	ND	---	---	BL
DIBP	BL	---	---	---	ND	---	---	BL
Conclusion	PASS							

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Test Item(s)	A57	A58	A59	A60	A61
Cd	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL
PBB	BL	BL	---	BL	---
PBDE	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



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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 62321-1:2013 Annex A as below table.

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

(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 Cr 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 PBB/PBDE) 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 \leq 600 $< X$
Butyl benzyl phthalate (BBP)	85-68-7	BL \leq 600 $< X$
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	BL \leq 600 $< X$
Diisobutyl phthalate (DIBP)	84-69-5	BL \leq 600 $< X$

(3) Interpretation of results by chemical tests:

- (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.
- (b) Unit and MDL in wet chemical test

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

The MDL for single compound of PBB and PBDE 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 0.10 μ g/cm².

(c) ▼ =Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². 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 0.10 μ g/cm²). The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination



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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)/PBB/PBDE/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.

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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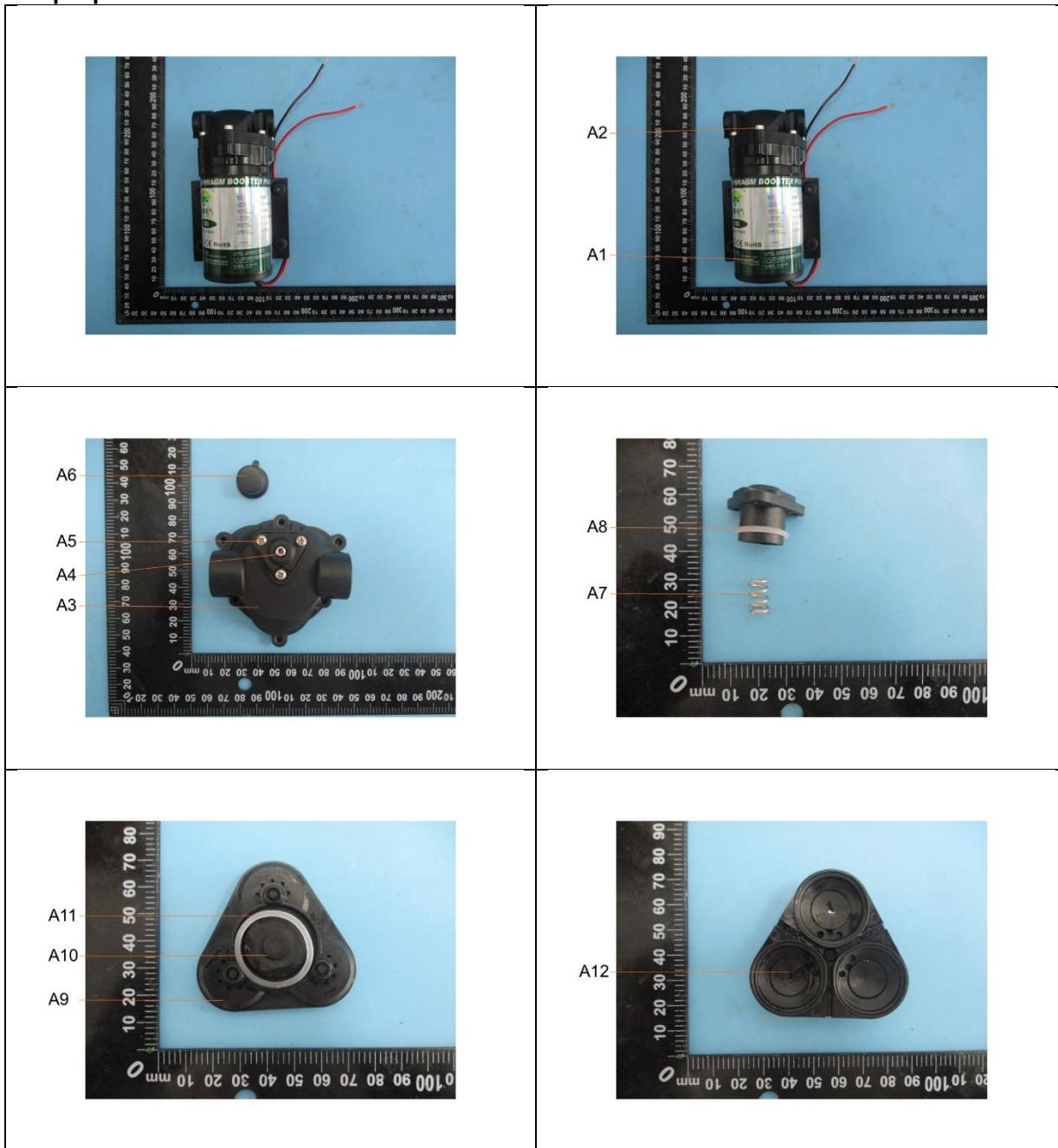


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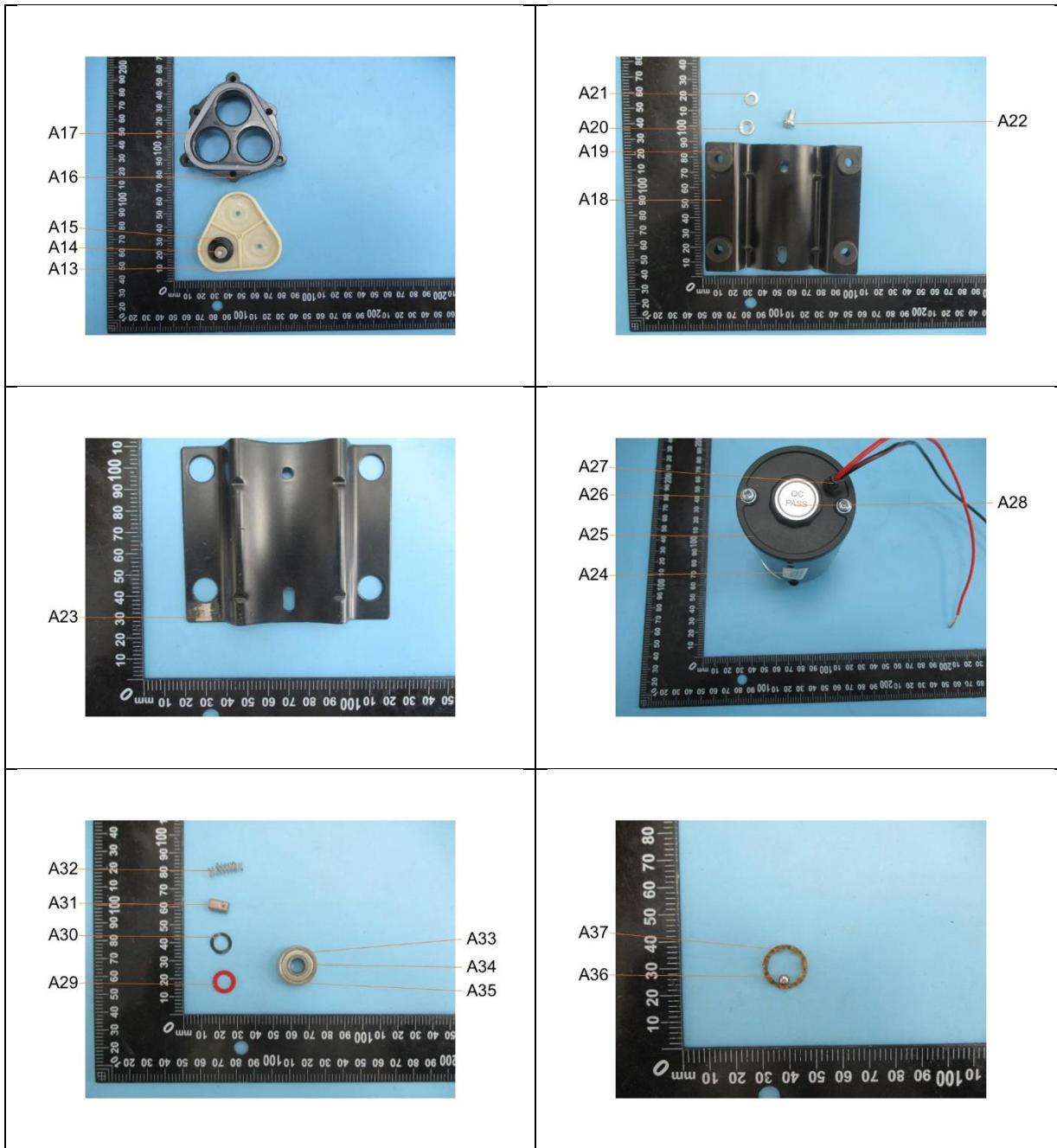
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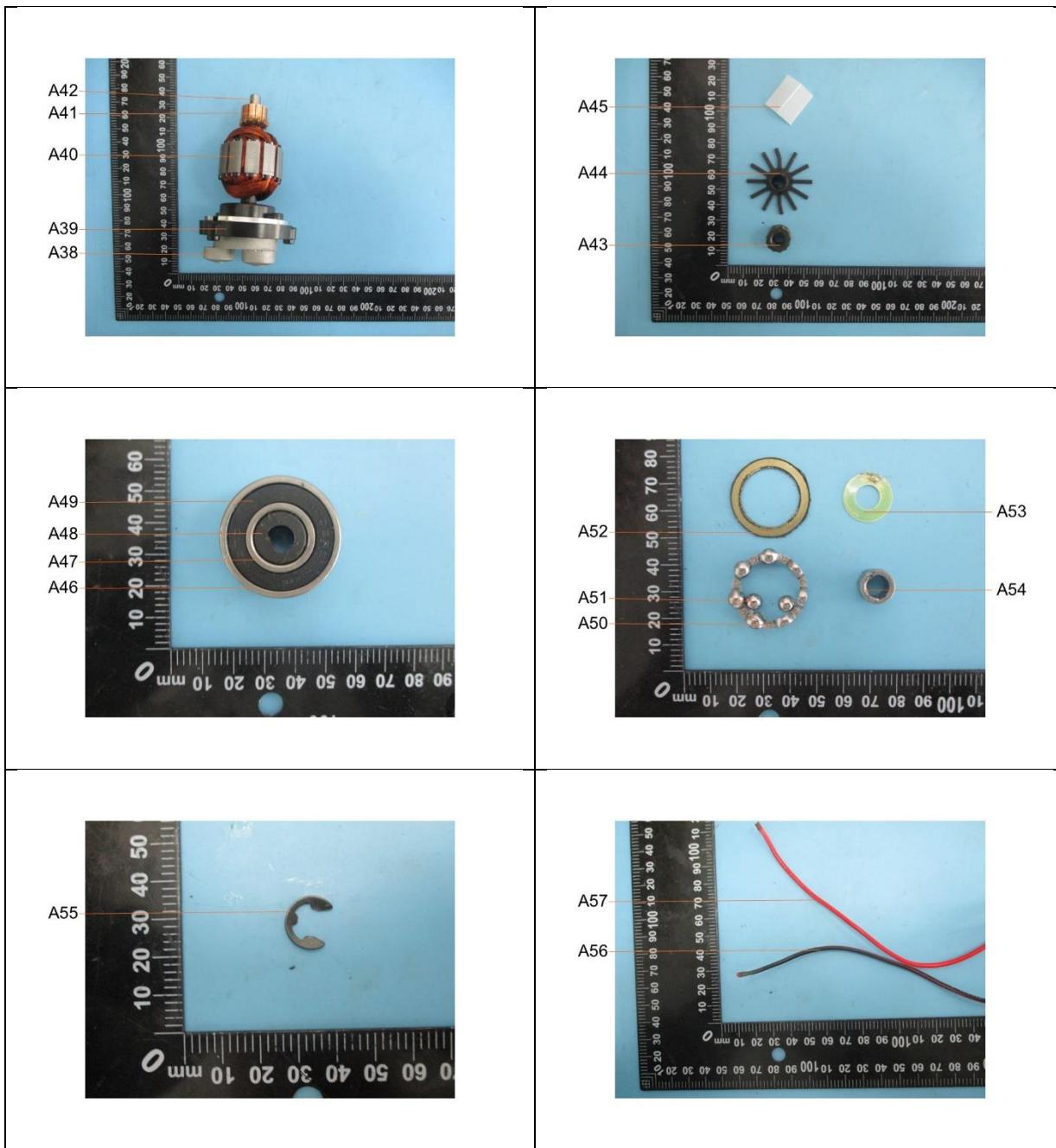
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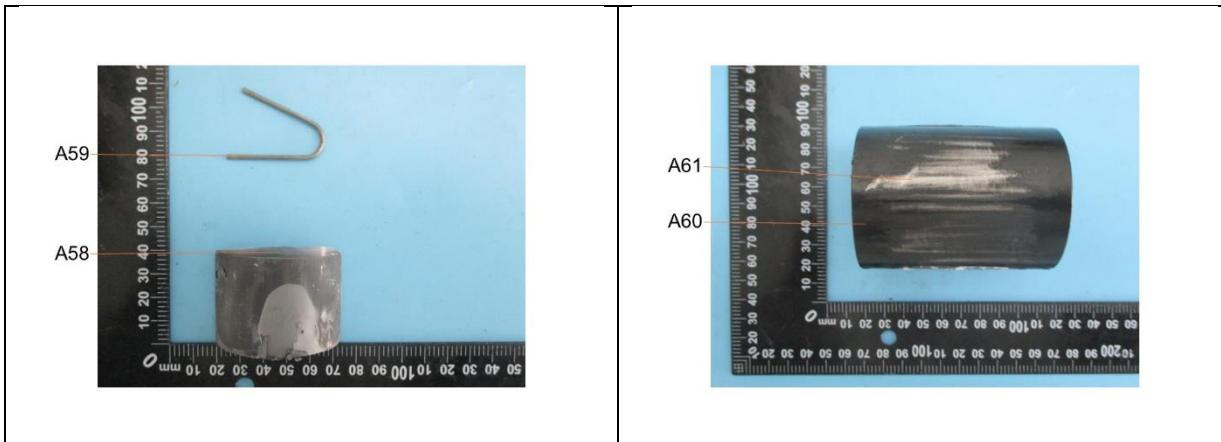
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