

Report No.: 18300RC10275201

Test Report

Client Name : EcoFlow Inc.

Address : Factory Building A202, Founder Technology Industrial Park,
North Side of Songbai Highway, Longteng Community, Shiyan
Sub-district, Baoan District, Shenzhen City, Guangdong, China

Product Name : Portable Power Station

Date : Sept. 11, 2021

Shenzhen Anbotech Compliance Laboratory Limited**Shenzhen Anbotech Compliance Laboratory Limited**Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District,
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Applicant : EcoFlow Inc.**Address** : Factory Building A202, Founder Technology Industrial Park, North Side of Songbai Highway, Longteng Community, Shiyan Sub-district, Baoan District, Shenzhen City, Guangdong, China**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client****Sample Name** : Portable Power Station**Test Model No.** : EFD320**Reference Model No.** : EFD310**Manufacturer** : EcoFlow Inc.**Trade Mark** : ECOFLOW**Country of Destination** : Europe**Country of Origin** : CHINA**Sample Received Date** : June 10, 2021**Testing Period** : June 11, 2021 to Sept. 10, 2021**Test Requested** : As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the two hundred and eleven (211) Substances of Very High Concern (SVHC) in the selected material of the submitted sample.**Test Method:** In-House method-Analyzed by ICP-OES, UV-Vis, HPLC, LC-MS-MS, GC, GC-MS and colorimetric method**Test Result(s):** Please refer to the following page(s).**Summary:**

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are >0.1%(w/w) in the articles of the submitted sample:

-Lead

Warning

Edited by

Reviewed by

Authorized Signatory

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Tested Sample/Part Description:

Tested Groups	Description	Photo No.	Component
A#	Metal mixed	12	Silvery metal screw
		13	Silvery metal stud
		14	Silvery metal fixing plate
		16	Silvery metal bracket
		18	Silvery metal feet
		19	Silvery metal plate
		20	Silvery metal screw
		29	Silvery metal shaft
		30	Silvery metal shell
		34	Silvery metal soldering tin
		35	Silvery metal silicon steel sheet
		36	Copper-colored metal coil
		38	Silvery metal card board
		45	Copper-colored metal contact pin
		46	Silvery metal terminal
		56	Silvery metal contact pin
		59	Silvery metal fixing frame
		63	Silvery metal rivets
		65	Silvery metal spring
		66	Silvery metal shrapnel
		67	Copper-colored metal nail
		68	Silvery metal contact
		69	Silvery metal contact
		70	Silvery metal soldering tin
		74	Silvery metal aluminum shell
		77	Silvery metal shield cover
		86	Silvery metal contact
		89	Silvery metal interface
		90	Silvery metal contact pin
		93	Silvery metal inner tube
		94	Silvery metal outer cylinder
		96	Copper-colored metal screw
		111	Metal enameled wire with copper-colored coating

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Tested Groups	Description	Photo No.	Component
A#	Metal mixed	115	Silvery metal radiator
		119	Silvery metal fixing plate
		122	Copper-colored metal coil
		132	Silvery metal electrode sheet
		140	Silvery metal insert
		146	Copper-colored metal insert
		149	Silvery metal plug
		155	Silvery metal contact
		156	Silvery metal thimble
		157	Silvery metal ring
		158	Silvery metal spring
		167	Copper-colored metal pin
		174	Silvery metal foil
		175	Copper-colored metal foil
		176	Silvery metal electrode sheet
		177	Silvery metal electrode sheet
		179	Silvery metal shell
		180	Silvery metal plate
		181	Silvery metal sealing cap
B#	Nonmetal mixed	1	Silvery gray plastic upper cover
		2	Gray rubber gasket
		3	Silvery grey label
		4	Black plastic pedestal
		5	Black rubber foot pad
		6	Black label
		7	Black transparent plastic lens
		8	Transparent plastic button with gold coating
		9	Black plastic socket board
		10	Black rubber cover
		11	Gray plastic button
		15	Blue thermal grease
		17	Black foam
		21	Black plastic shell
		22	Black label
		23	White plastic jacket

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Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	24	Red plastic jacket
		25	Black plastic jacket
		26	Black plastic heat shrinkable tube
		27	White plastic terminal
		28	Black magnetic glue
		31	Black plastic fan blade
		32	IC
		33	Blue PCB
		37	Black plastic bracket
		39	Orange plastic plug
		40	Gray plastic plug scarfskin
		41	Black plastic jacket
		42	Red plastic jacket
		43	White plastic jacket
		44	Black plastic plug
		47	Black plastic jacket
		48	White plastic heat shrinkable tube
		49	Transparent plastic sheath
		50	Red plastic jacket
		51	White plastic jacket
		52	Black plastic jacket
		53	Black plastic heat shrinkable tube
		54	Yellow-green plastic jacket
		55	Black plastic label
		57	Black plastic interface
		58	Black plastic sliding plate
		60	Black plastic sliding button
		61	Black plastic heat shrinkable tube
		62	Black plastic screw
		64	Black plastic shell
		71	Green PCB
		72	Transparent glue
		73	Chip inductance
		75	Beige plastic socket
		76	MOS

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Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	78	Black plastic button
		79	Blue plastic USB port
		80	Black plastic USB interface
		81	Black plastic buzzer
		82	Black glass display
		83	Brown FPC
		84	Black foam tape
		85	Black plastic bracket
		87	Black plastic jacket
		88	Red plastic jacket
C#	Nonmetal mixed	91	Chip LED
		92	Black glue
		95	Translucent plastic board
		97	Gray resistor
		98	Blue ceramic capacitor
		99	White glue
		100	IC
		101	Chip diode
		102	Green plastic scarfskin
		103	MOS
		104	White plastic jacket
		105	Blue plastic jacket
		106	Red plastic jacket
		107	Red plastic digital switch
		108	IC
		109	Chip audion
		110	Green magnetic circle
		112	Black plastic shell
		113	White plastic shell
		114	Black plastic gasket
		116	White paper
		117	Black magnet
		118	Black plastic partition
		120	Yellow safety capacitor
		121	Black plastic bracket

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Tested Groups	Description	Photo No.	Component
C#	Nonmetal mixed	123	MOS
		124	Blue plastic scarfskin
		125	Black plastic gasket
		126	Black plastic capacitor scarfskin
		127	Fuse
		128	Yellow tape
		129	Black thermistor
		130	Rectifier bridge
		131	Green paper
		133	Black plastic sheath
		134	Cement resistance
		135	Black foam sheath
		136	Green resistor
		137	Black plastic jacket
		138	Black plastic bracket
		139	Black plastic plug scarfskin
		141	Black plastic bracket
		142	Brown plastic jacket
		143	Yellow-green plastic jacket
		144	Blue plastic jacket
		145	Black plastic scarfskin
		147	White plastic bracket
		148	Plastic inside black plug
		150	Black plastic plug sheath
		151	Red plastic jacket
		152	Black plastic jacket
		153	Black plastic scarfskin
		154	Black plastic shell
		159	Black plastic heat shrinkable tube
		160	White plastic jacket
		161	Black plastic scarfskin
		162	Orange rubber gasket
		163	Black plastic shell
		164	Black plastic jacket
		165	Red plastic jacket

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Tested Groups	Description	Photo No.	Component
C#	Nonmetal mixed	166	Translucent silicone gasket
		168	Orange plastic plug
		169	Green plastic scarfskin
		170	Blue plastic gasket
		171	White plastic film
		172	Yellow tape
		173	Black electrolyte
		178	Scotch tape
		182	White plastic sealing ring

Test Result(s): (Substances in the Candidate List of SVHC)

Tested Groups	Code	Test Item	Report Results (%)
A#	185	Lead	0.9535
	-	Other tested SVHC in Candidate List	N.D.
B#	-	All tested SVHC in Candidate List	N.D.
C#	-	All tested SVHC in Candidate List	N.D.

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Attachment (Full list of tested SVHC):

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
1	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.005
2	Diarsenic pentaoxide**	1303-28-2	215-116-9	0.01
3	Diarsenic trioxide**	1327-53-3	215-481-4	0.01
4	Triethyl arsenate**	15606-95-8	427-700-2	0.01
5	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.01
6	Cobalt dichloride**	7646-79-9	231-589-4	0.01
7	Sodium dichromate **	7789-12-0, 10588-01-9	234-190-3	0.01
8	Anthracene	120-12-7	204-371-1	0.005
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.005
10	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.005
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005
13	Di-2-ethylhexyl phthalate(DEHP)	117-81-7	204-211-0	0.005
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.005
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.01

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The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
16	Anthracene oil	90640-80-5	292-602-7	0.05
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	0.05
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	0.05
22	Acrylamide	79-06-1	201-173-7	0.01
23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
25	Lead chromate**	7758-97-6	231-846-0	0.05
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.05
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	215-693-7	0.05
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.01

The third eight Substances of Very High Concern (Released in Jun, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
29	Trichloroethylene	79-01-6	201-167-4	0.005
30	Boric acid**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.01
32	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.01

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
33	Sodium chromate**	7775-11-3	231-889-5	0.01
34	Potassium chromate**	7789-00-6	232-140-5	0.01
35	Ammonium dichromate**	7789-09-5	232-143-1	0.01
36	Potassium dichromate**	7778-50-9	231-906-6	0.01

The fourth eight Substances of Very High Concern (Released in Dec, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	
37	Cobalt(II) sulphate**	10124-43-3	233-334-2	0.01	
38	Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.01	
39	Cobalt(II) carbonate**	513-79-1	208-169-4	0.01	
40	Cobalt(II) diacetate**	71-48-7	200-755-8	0.01	
41	2-Methoxyethanol	109-86-4	203-713-7	0.005	
42	2-Ethoxyethanol	110-80-5	203-804-1	0.005	
43	Chromium trioxide**	1333-82-0	215-607-8	0.01	
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**	7738-94-5	231-801-5	0.01
		Dichromic acid**	13530-68-2	236-881-5	0.01
		Oligomers of chromic acid and dichromic acid**	--	--	0.01

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The fifth seven Substances of Very High Concern (Released in Jun, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.01
46	Strontium chromate**	7789-06-2	232-142-6	0.01
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	68515-42-4	271-084-6	0.01
48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.01
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.01
50	1,2,3-Trichloropropane	96-18-4	202-486-1	0.01
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	276-158-1	0.01

The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
52	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.01
53	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	234-329-8	0.01
54	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.01
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	--	--	0.05
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	--	--	0.05
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.01
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.005
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005
63	Arsenic acid**	7778-39-4	231-901-9	0.01
64	Calcium arsenate**	7778-44-1	231-904-5	0.01
65	Trilead diarsenate**	3687-31-8	222-979-5	0.01
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
68	Phenolphthalein	77-09-8	201-004-7	0.005
69	Lead diazide Lead azide **	13424-46-9	236-542-1	0.01
70	Lead styphnate**	15245-44-0	239-290-0	0.01
71	Lead dipicrate**	6477-64-1	229-335-2	0.01

The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
72	1,2-bis(2-methoxyethoxy)ethane(TEG DME; triglyme)	112-49-2	203-977-3	0.01
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
74	Diboron trioxide**	1303-86-2	215-125-8	0.01
75	Formamide	75-12-7	200-842-0	0.01
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.01
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazin e-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.01
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01
80	N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base)	101-61-1	202-959-2	0.01
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.01
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01

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The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	--	--	0.05
91	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	--	--	0.05
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
94	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05
95	Methoxy acetic acid	625-45-6	210-894-6	0.05
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.05
98	N-pentyl-isopentylphthalate	776297-69-9	--	0.05
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.05
101	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.05
102	Acetic acid, lead salt, basic**	51404-69-4	257-175-3	0.01
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) **	1319-46-6	215-290-6	0.01
104	Lead oxide sulfate (basic lead sulfate) **	12036-76-9	234-853-7	0.01
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **	69011-06-9	273-688-5	0.01
106	Dioxobis(stearato)trilead**	12578-12-0	235-702-8	0.01
107	Fatty acids, C16-18, lead salts**	91031-62-8	292-966-7	0.01
108	Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.01
109	Lead cyanamidate**	20837-86-9	244-073-9	0.01
110	Lead dinitrate**	10099-74-8	233-245-9	0.01
111	Lead oxide (lead monoxide) **	1317-36-8	215-267-0	0.01



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Code	Test Item	CAS No.	EC No.	Report Limit (%)
112	Lead tetroxide (orange lead) **	1314-41-6	215-235-6	0.01
113	Lead titanium trioxide**	12060-00-3	235-038-9	0.01
114	Lead Titanium Zirconium Oxide**	12626-81-2	235-727-4	0.01
115	Pentalead tetraoxide sulphate**	12065-90-6	235-067-7	0.01
116	Pyrochlore, antimony lead yellow**	8012 -00-8	232-382-1	0.01
117	Silicic acid, barium salt, lead-doped**	68784-75-8	272-271-5	0.01
118	Silicic acid, lead salt**	11120-22-2	234-363-3	0.01
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	263-467-1	0.01
120	Tetraethyllead**	78-00-2	201-075-4	0.01
121	Tetralead trioxide sulphate**	12202-17-4	235-380-9	0.01
122	Trilead dioxide phosphonate**	12141-20-7	235-252-2	0.01
123	Furan	110-00-9	203-727-3	0.05
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05
125	Diethyl sulphate	64-67-5	200-589-6	0.05
126	Dimethyl sulphate	77-78-1	201-058-1	0.05
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05
128	Dinoseb	88-85-7	201-861-7	0.05
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
135	o-aminoazotoluene	97-56-3	202-591-2	0.05

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05
137	N-methylacetamide	79-16-3	201-182-6	0.05
138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.05

The ninth six Substances of Very High Concern (Released in Jun, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
139	Cadmium **	7440-43-9	231-152-8	0.01
140	Cadmium oxide **	1306-19-0	215-146-2	0.01
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	/	/	0.05
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01

The tenth seven Substances of Very High Concern (Released in Dec, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
145	Cadmium sulphide**	1306-23-6	215-147-8	0.01
146	Dihexyl phthalate	84-75-3	201-559-5	0.01

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
147	C.I. Direct Red 28	573-58-0	209-358-4	0.01
148	C.I. Direct Black 38	1937-37-7	217-710-3	0.01
149	2-imidazoline-2-thiol	96-45-7	202-506-9	0.01
150	Lead di(acetate)**	301-04-2	206-104-4	0.01
151	Trixylyl phosphate	25155-23-1	246-677-8	0.01

The eleventh four Substances of Very High Concern (Released in Jun, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01
153	Cadmium chloride**	10108-64-2	233-296-7	0.01
154	Sodium perborate; perboric acid, sodium salt**	-	239-172-9; 234-390-0	0.01
155	Sodium peroxometaborate**	7632-04-4	231-556-4	0.01

The Twelfth six Substances of Very High Concern (Released in Dec, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
156	Cadmium fluoride**	7790-79-6	232-222-0	0.01
157	Cadmium sulphate**	10124-36-4, 31119-53-6	233-331-6	0.01
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.05
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-284-8	0.05

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	0.01
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2 -oxoethyl]thio]-4-octyl-7-oxo-8-oxa- 3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--	--	0.05

The Thirteenth two Substances of Very High Concern (Released in Jun, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5, 68648-93-1	271-094-0 272-013-1	0.05
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	--	0.05

The Fourteen five Substances of Very High Concern (Released in Dec, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
164	Nitrobenzene	98-95-3	202-716-0	0.05
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazo l-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.05

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Code	Test Item	CAS No.	EC No.	Report Limit (%)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.05
167	1,3-propanesultone	1120-71-4	214-317-9	0.05
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05

The Fifteen one Substance of Very High Concern (Released in Jun, 2016)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.05

The Sixteen four Substance of Very High Concern (Released in Jan, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.005
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.005
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.005
173	4-heptylphenol, branched and linear (4-HPbl)	-	-	0.005

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The Seventeen one Substance of Very High Concern (Released in Jul, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.005

The Eighteen seven Substances of Very High Concern (Released in Jan, 2018)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.005
176	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	0.005
177	Cadmium nitrate**	10022-68-1, 10325-94-7	233-710-6	0.01
178	Cadmium carbonate**	513-78-0	208-168-9	0.01
179	Cadmium hydroxide**	21041-95-2	244-168-5	0.01
180	Chrysene	218-01-9, 1719-03-5	205-923-4	0.005
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	-	0.005

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The Nineteen ten Substances of Very High Concern (Released in Jun, 2018)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
185	Lead**	7439-92-1	231-100-4	0.01
186	Disodium octaborate**	12008-41-2	234-541-0	0.01
187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01
188	Terphenyl hydrogenated	61788-32-7	262-967-7	0.01
189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01
190	Trimellitic anhydride (TMA)	552-30-7	209-008-0	0.01
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01

The Twenty six Substances of Very High Concern (Released in Jan, 2019)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
192	Pyrene	129-00-0	204-927-3	0.01
193	Phenanthrene	85-01-8	201-581-5	0.01
194	Fluoranthene	206-44-0	205-912-4	0.01
195	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (Bisphenol P)	6807-17-6	401-720-1	0.01
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9	0.01

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The Twenty one four Substances of Very High Concern (Released in July, 2019)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01
199	4-tert-butylphenol	98-54-4	202-679-0	0.01
200	2-methoxyethyl acetate	110-49-6	203-772-9	0.01
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.01

The Twenty two four Substances of Very High Concern (Released in Jan, 2020)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.01
203	2-methyl-1- (4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01

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The Twenty three four Substances of Very High Concern (Released in June 2020)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
206	1-vinylimidazole	1072-63-5	214-012-0	0.01
207	2-methylimidazole	693-98-1	211-765-7	0.01
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01
209	Dibutylbis(pentane-2,4-dionato-O,O') tin	22673-19-4	245-152-0	0.01

The Twenty four two Substances of Very High Concern (Released in Jan. 2021)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	0.01

Note:

1. mg/kg = ppm = 10^{-6}
2. % = w/w
3. N.D. : < Report Limit
4. * The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.
5. ** According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.

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6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. #: According to the applicant's request, the admixture of specimen A/B/C are tested as a whole. The testing results of specimen A/B/C may be different from that of any sole material in specimen A/B/C.

Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures



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Photograph of Sample



Photo(s) of the tested component(s)



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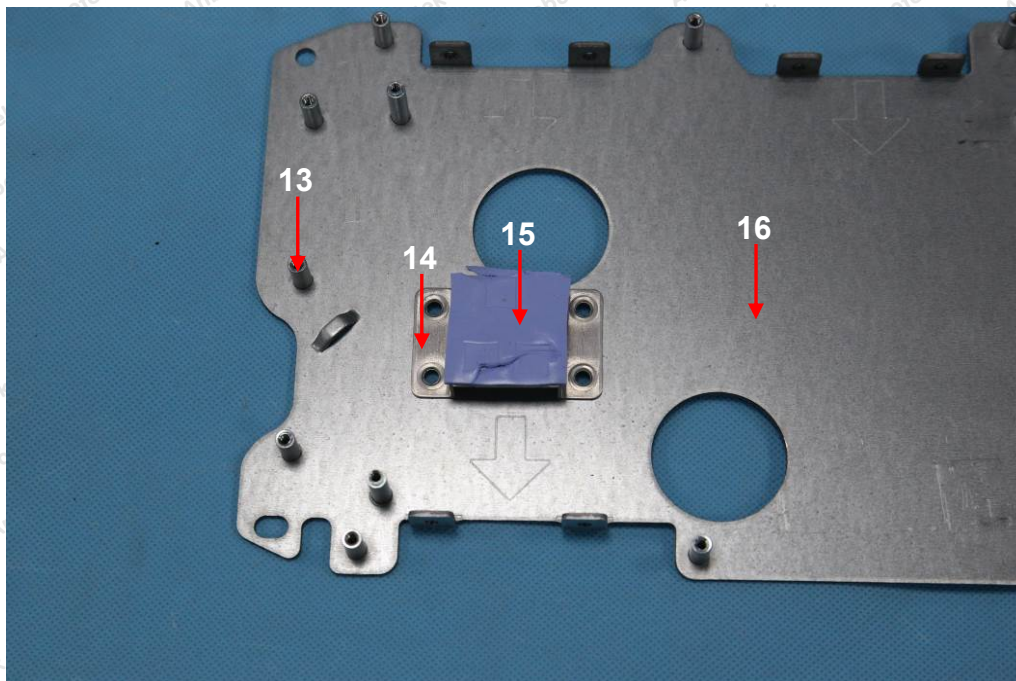


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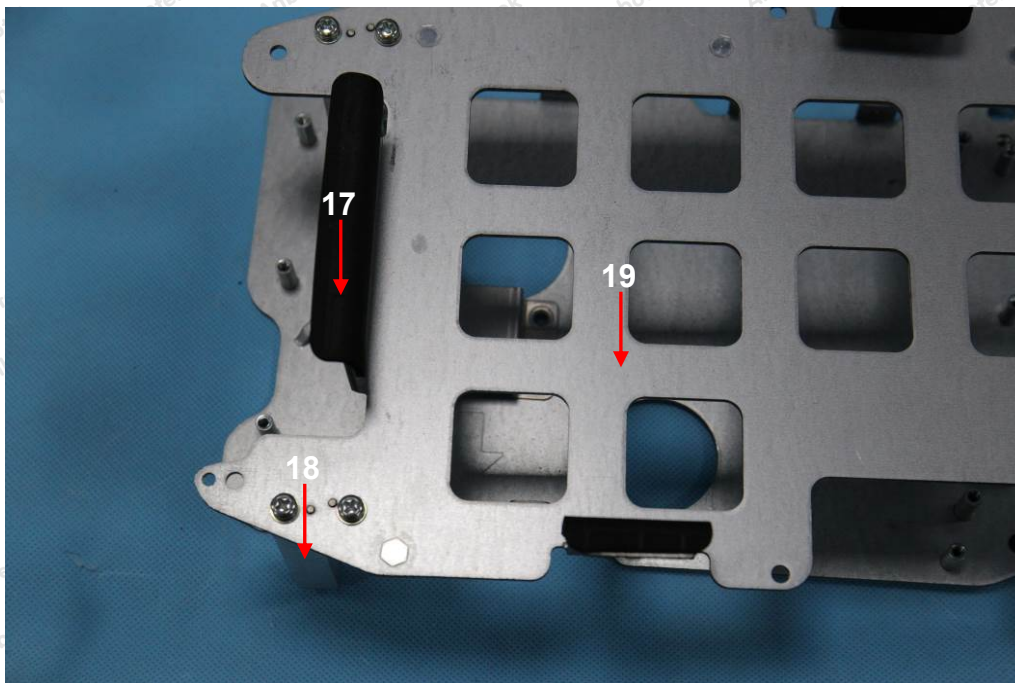


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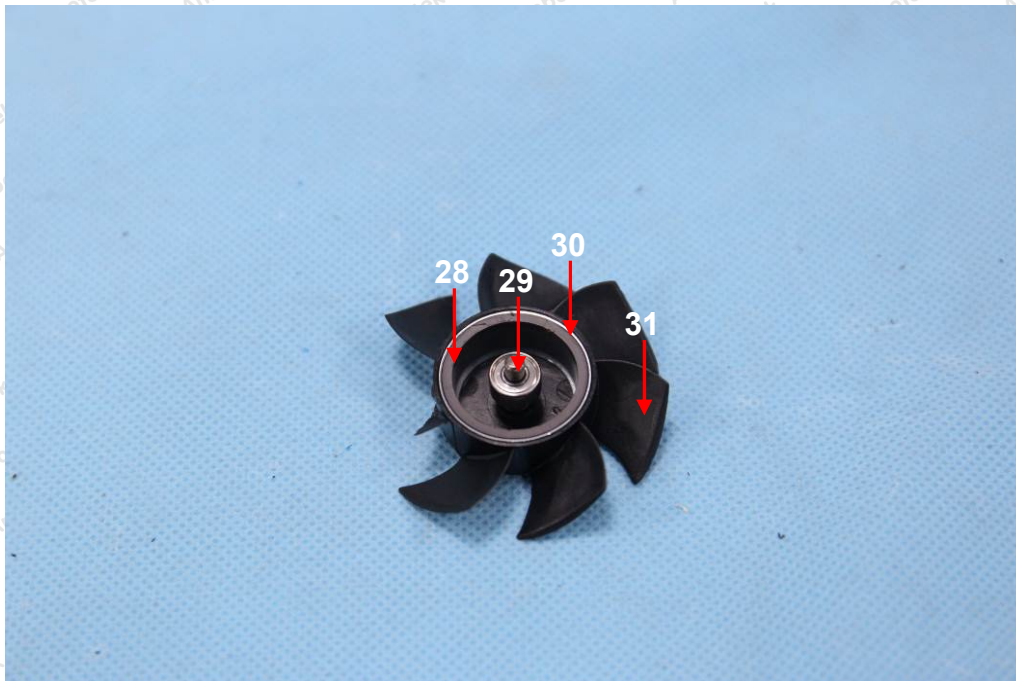
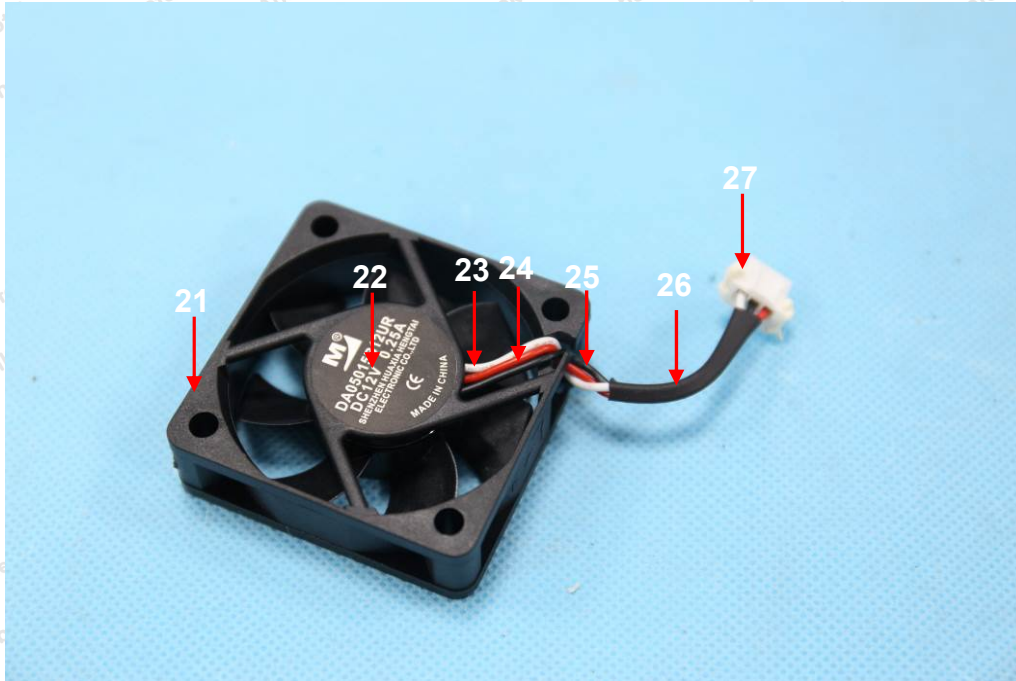


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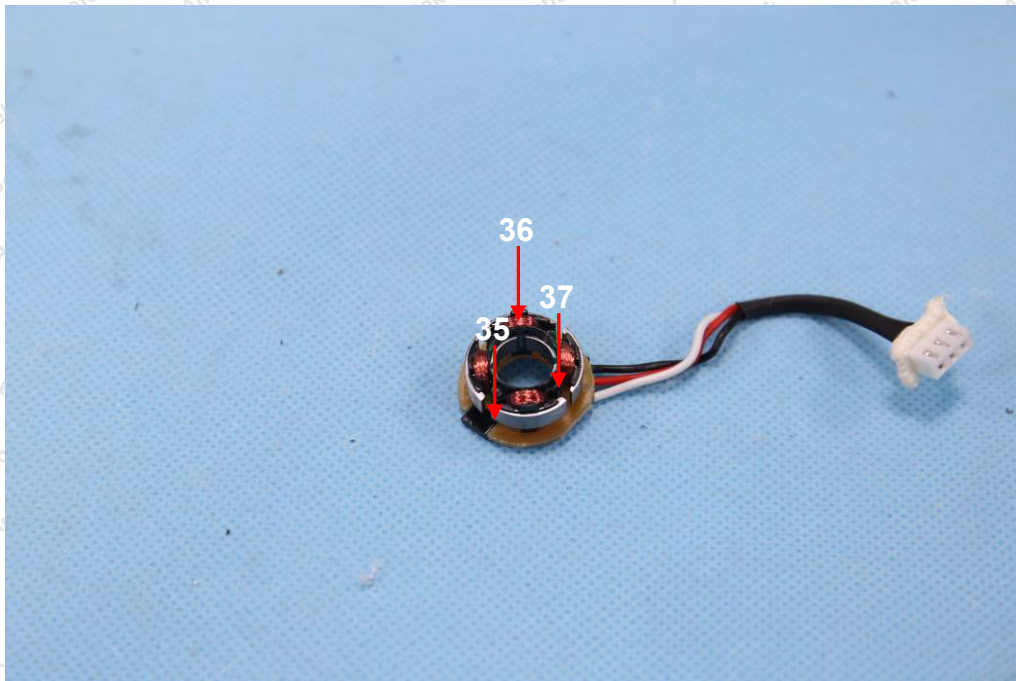
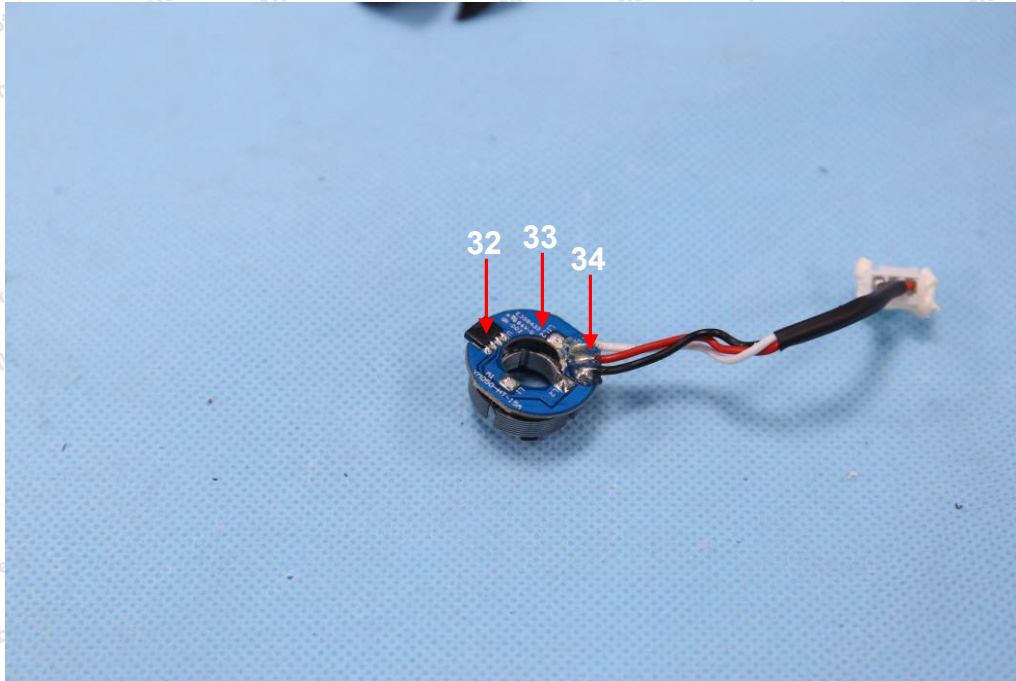


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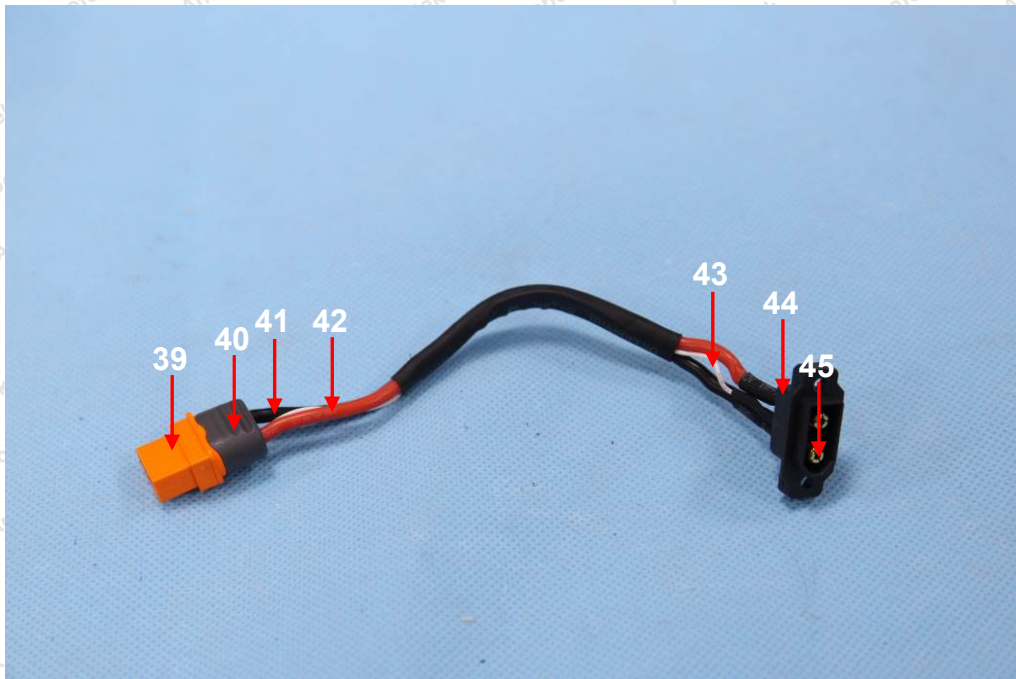
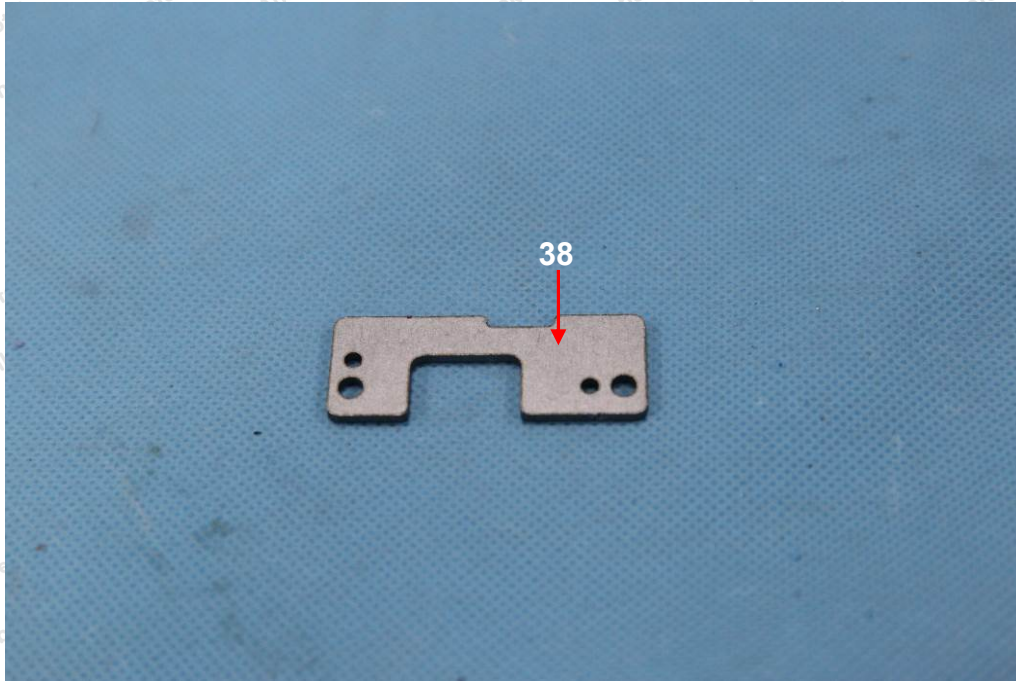


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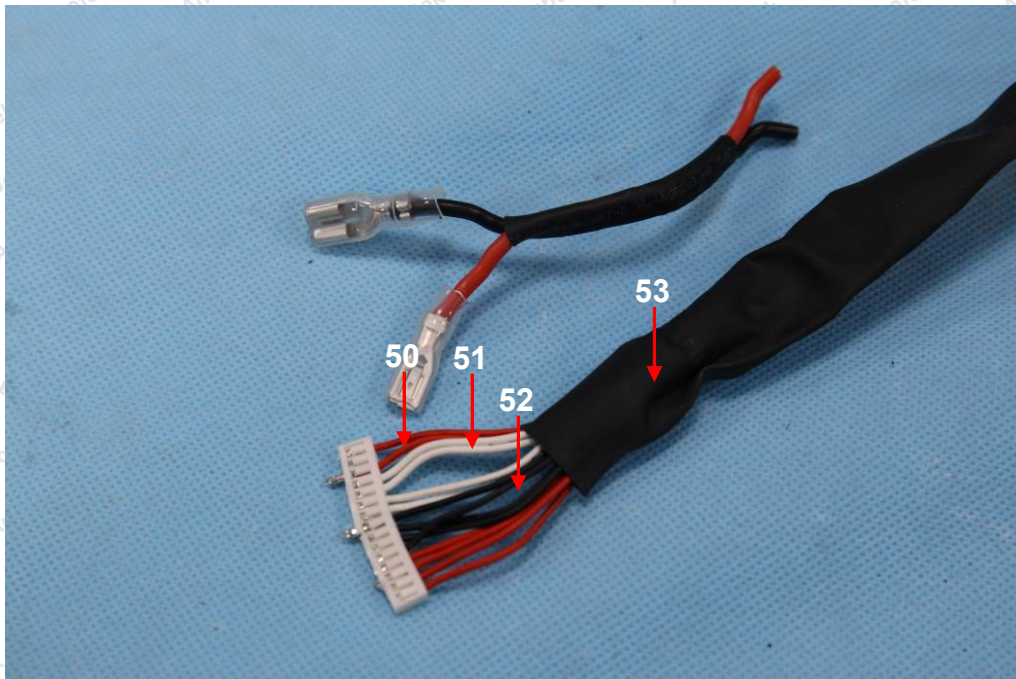
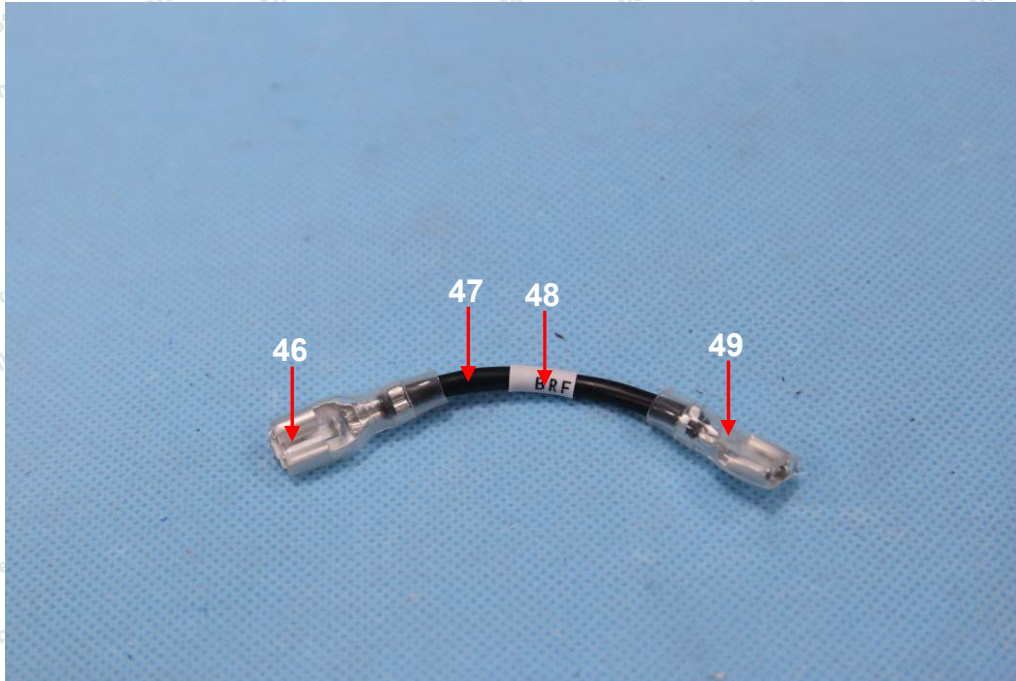


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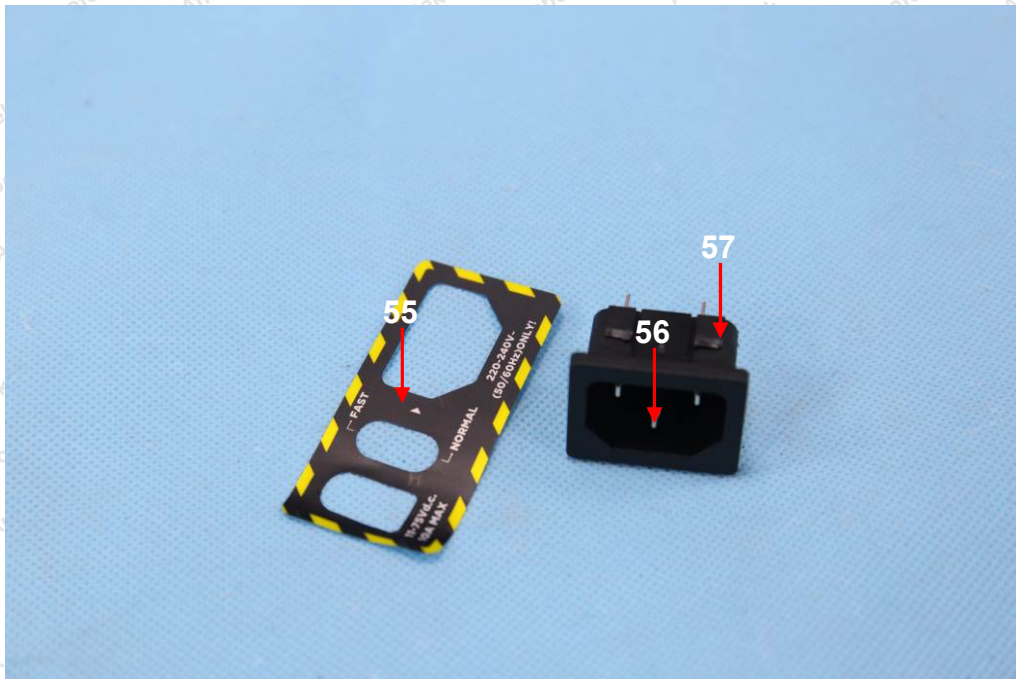
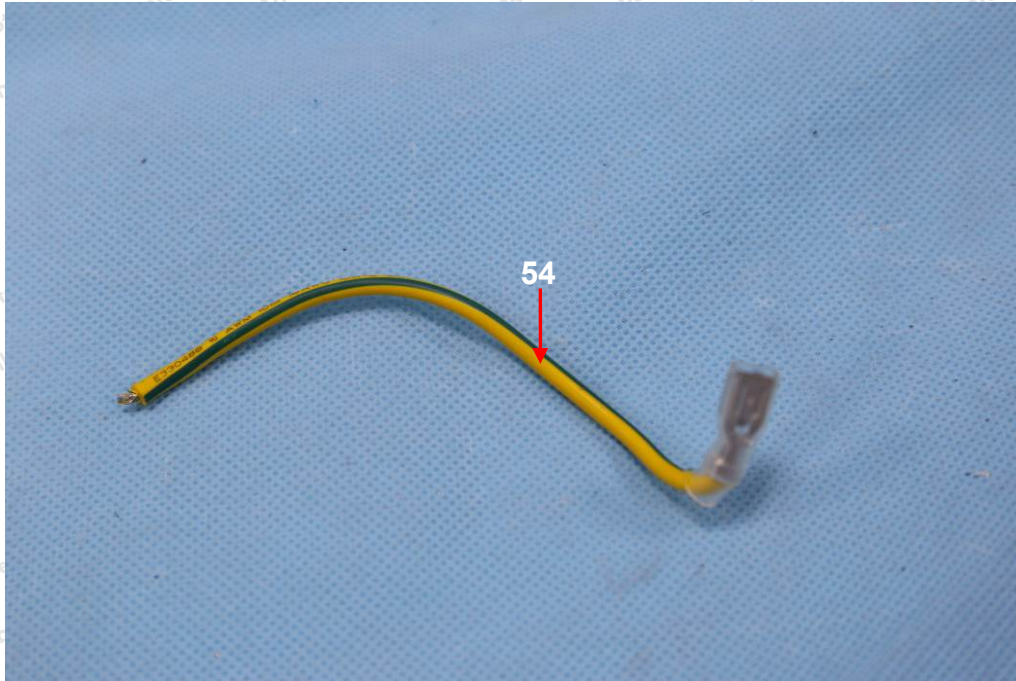


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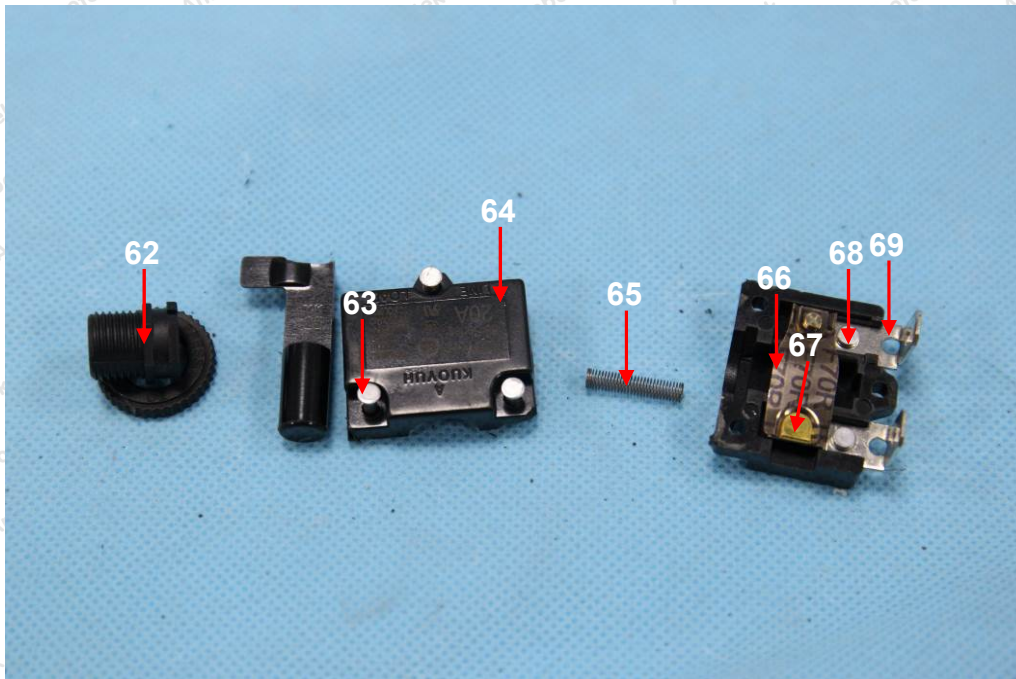
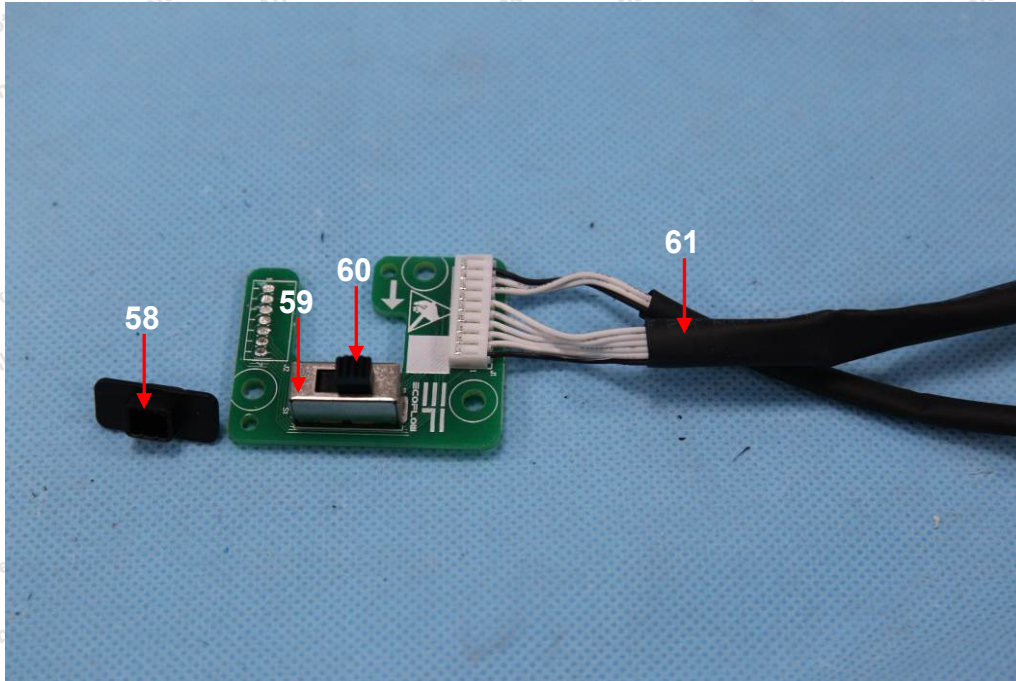


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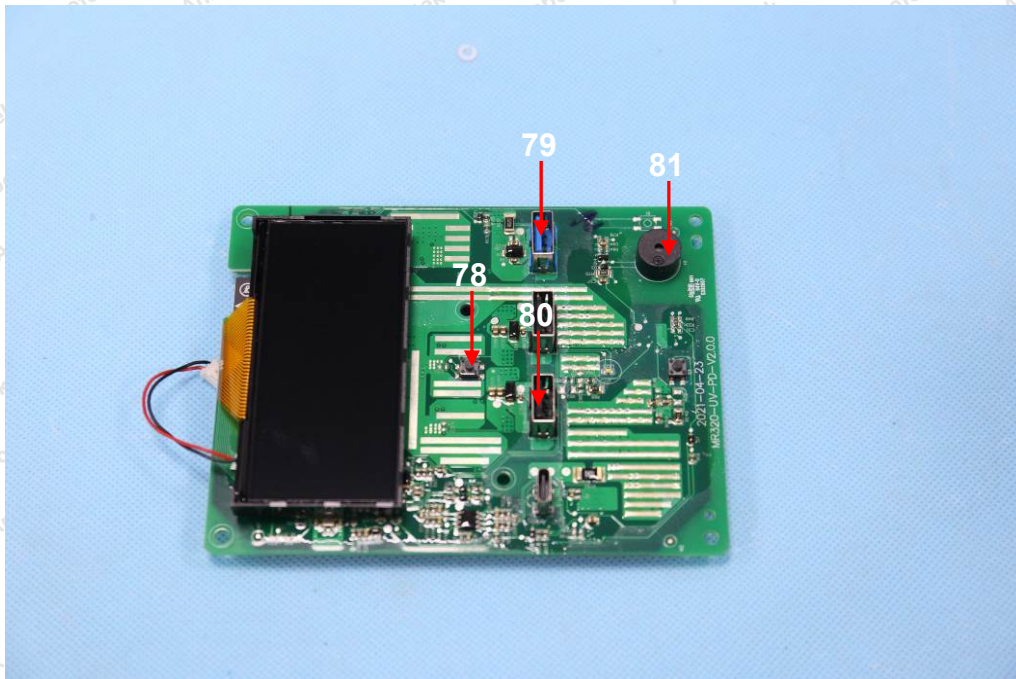
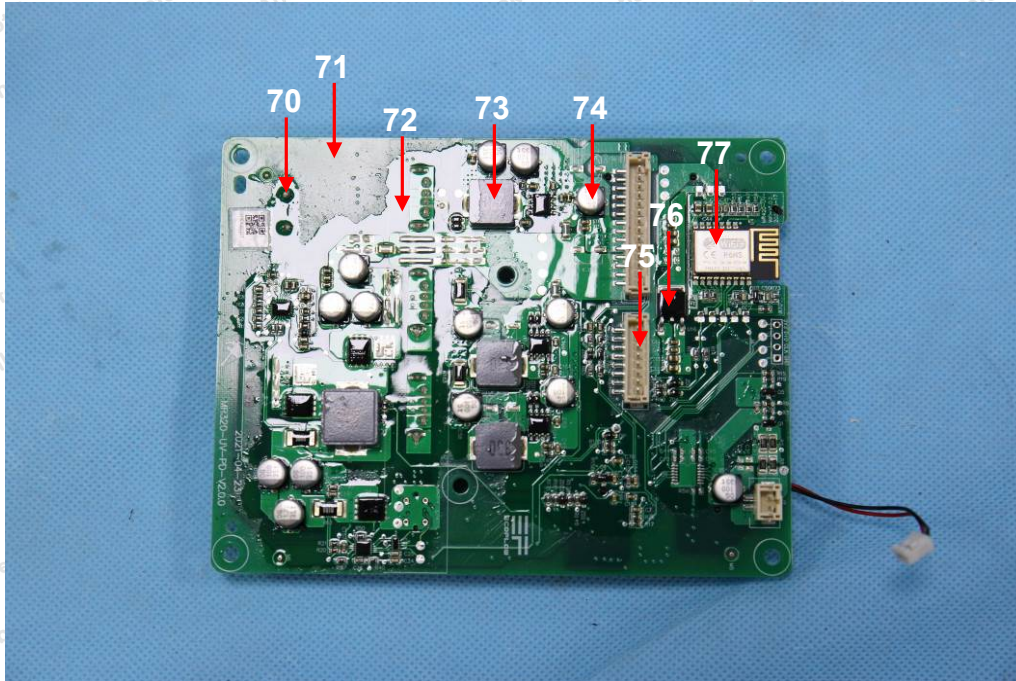


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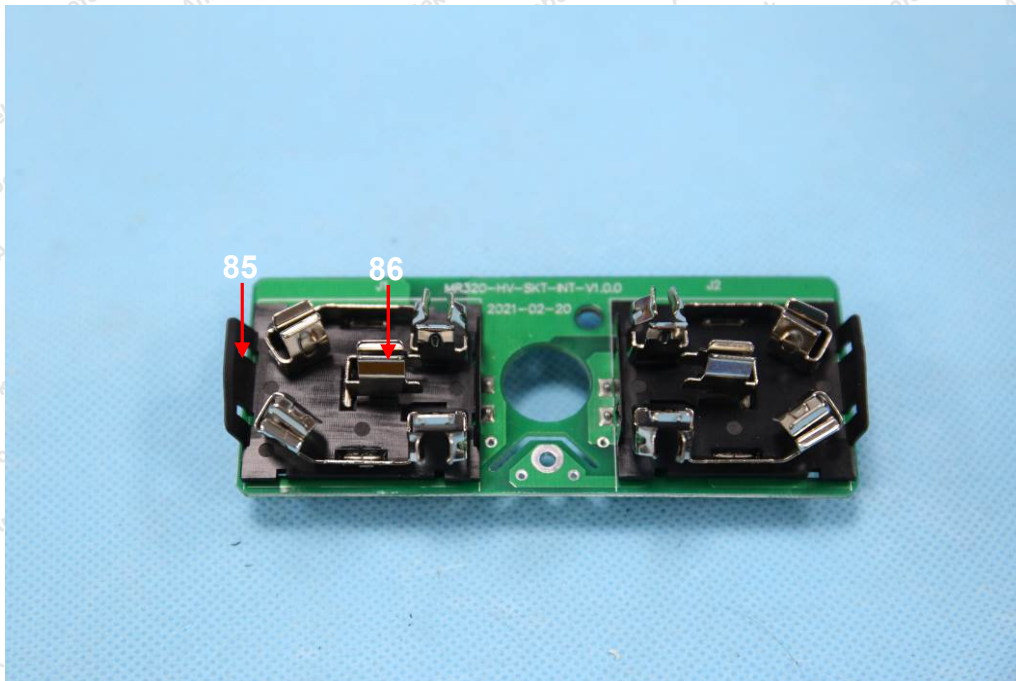
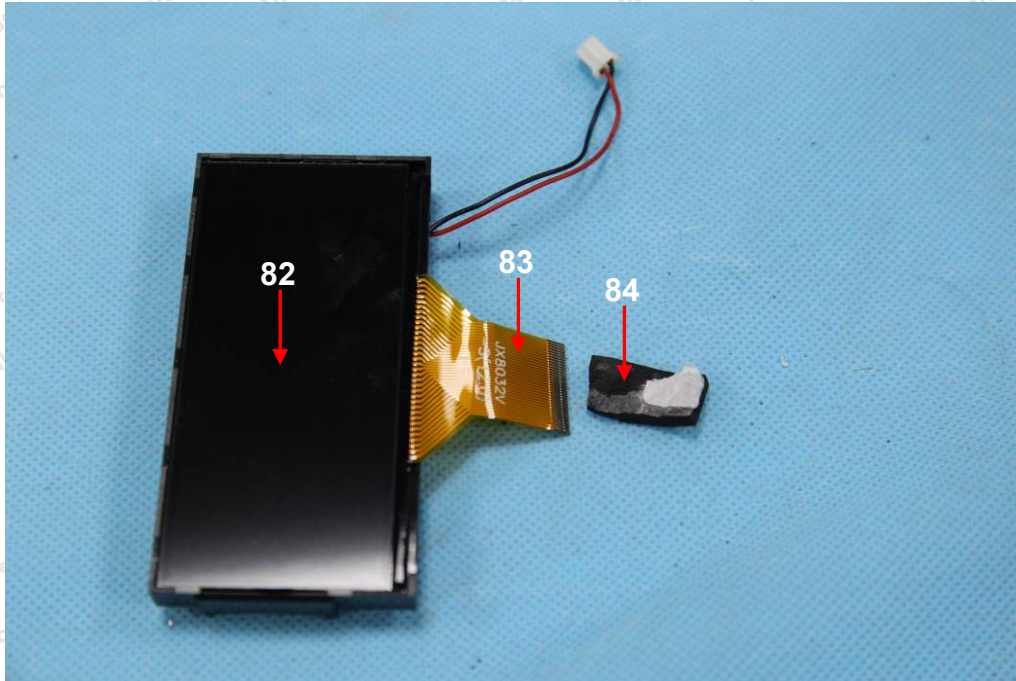


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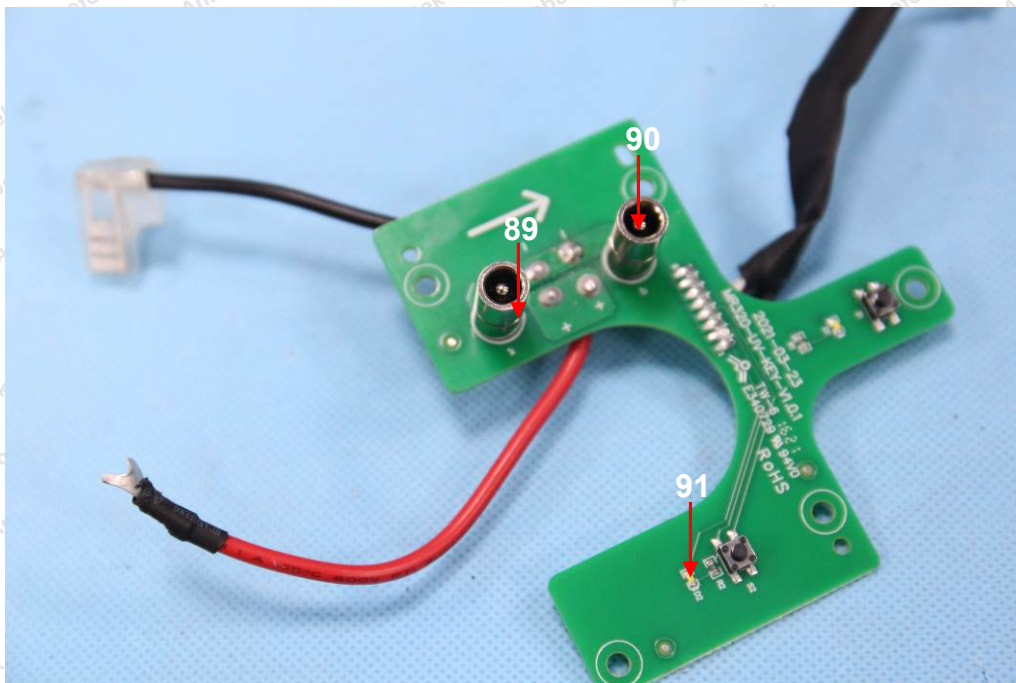
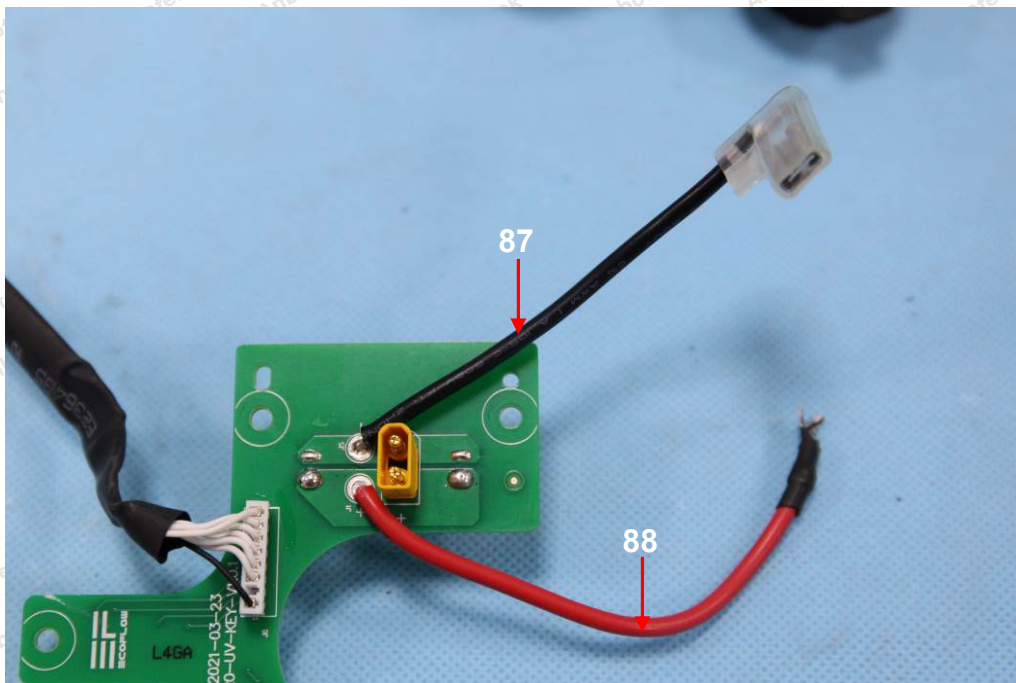


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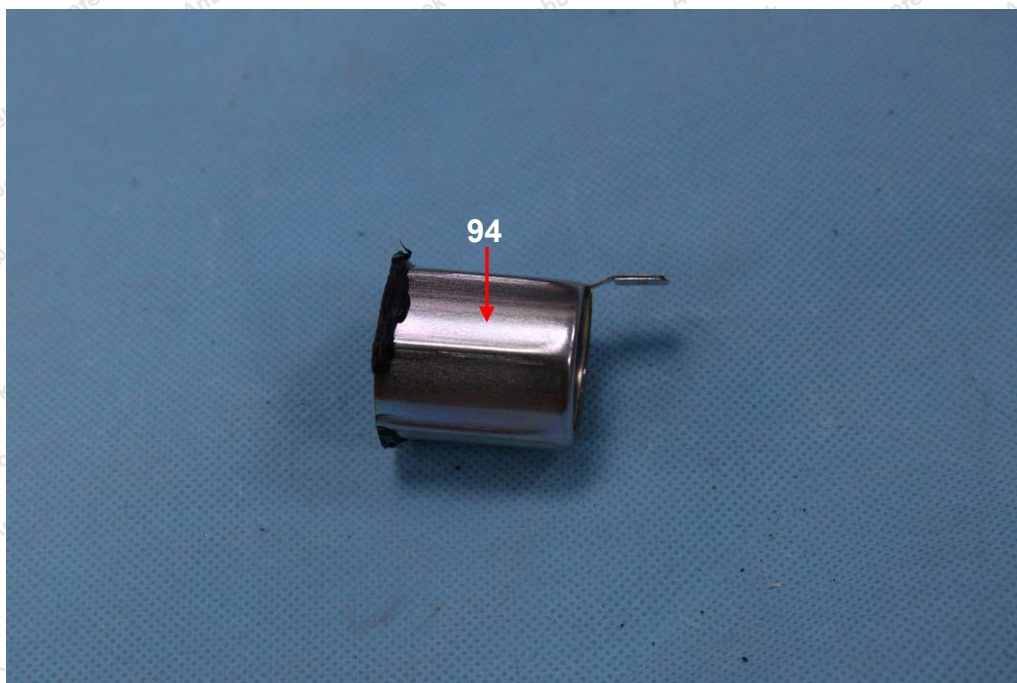
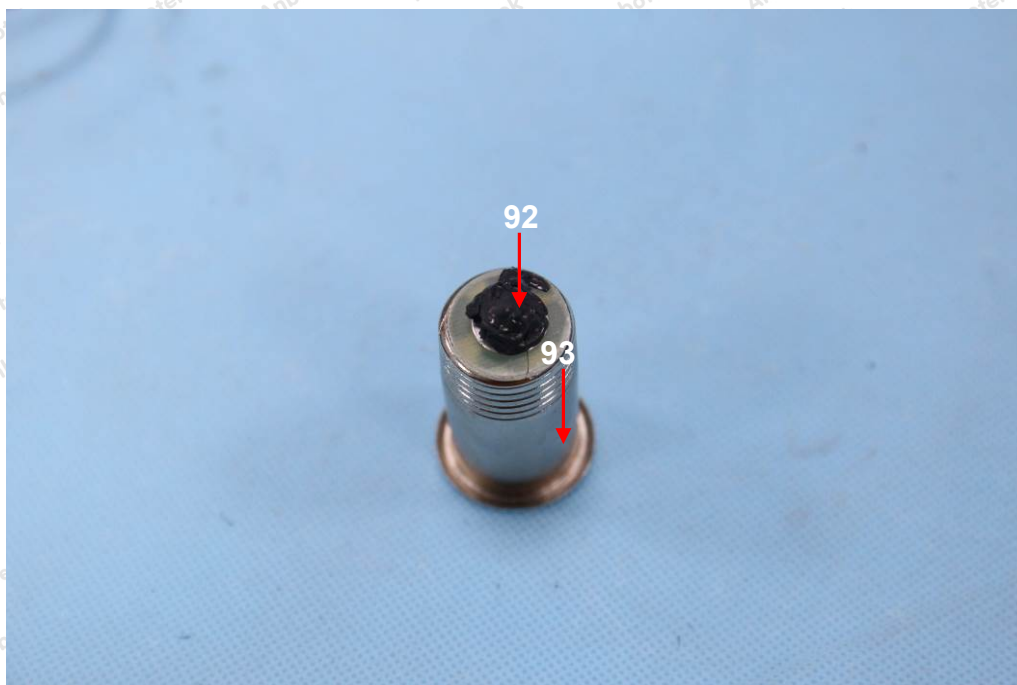


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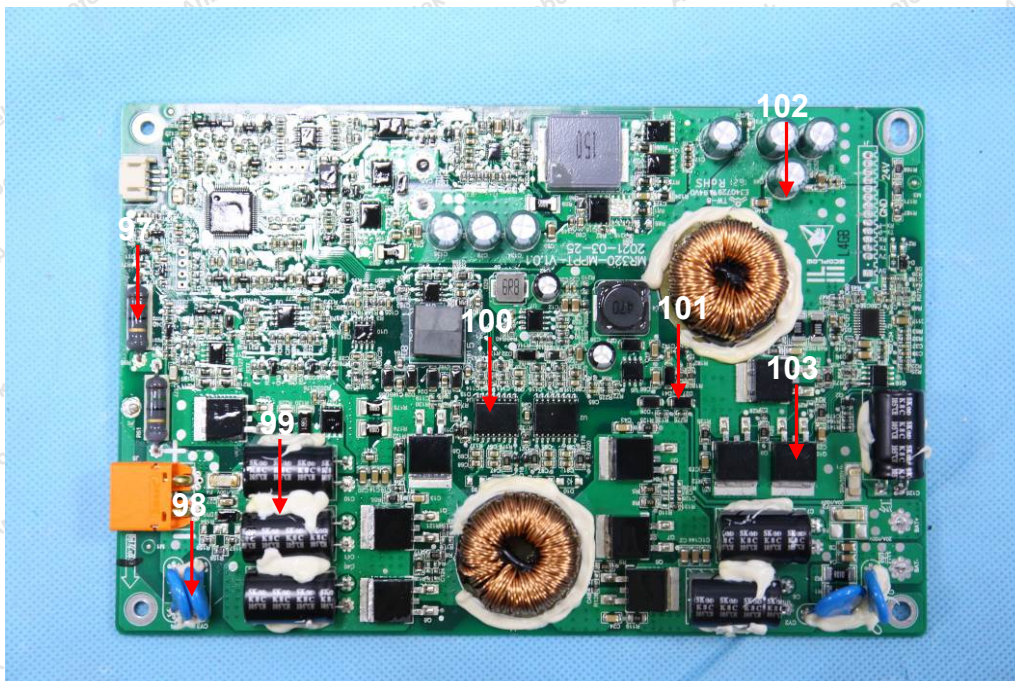
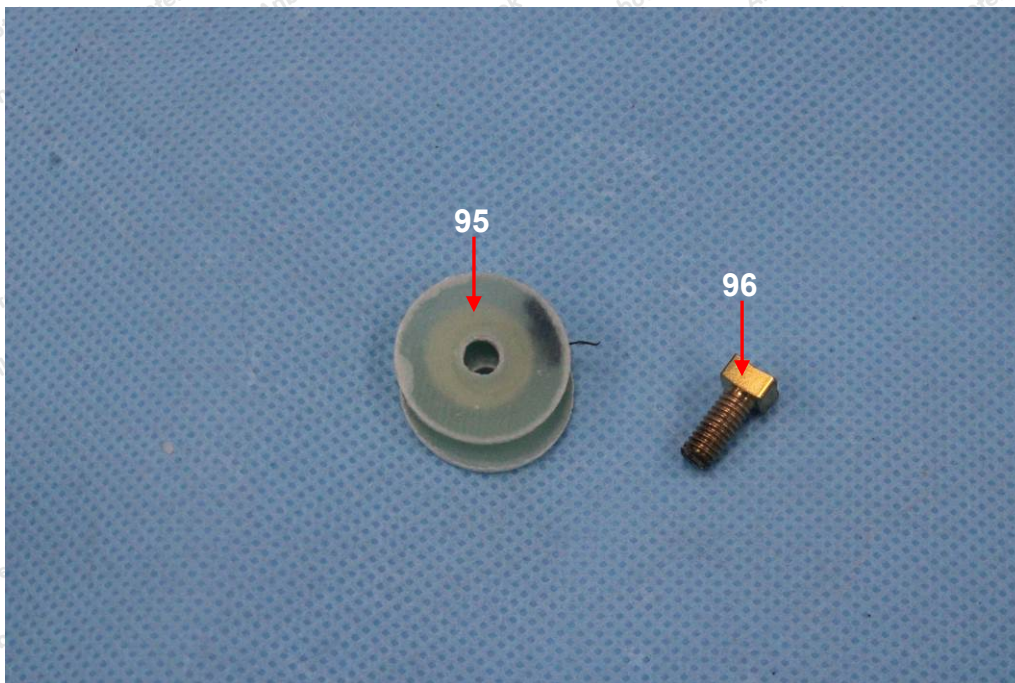


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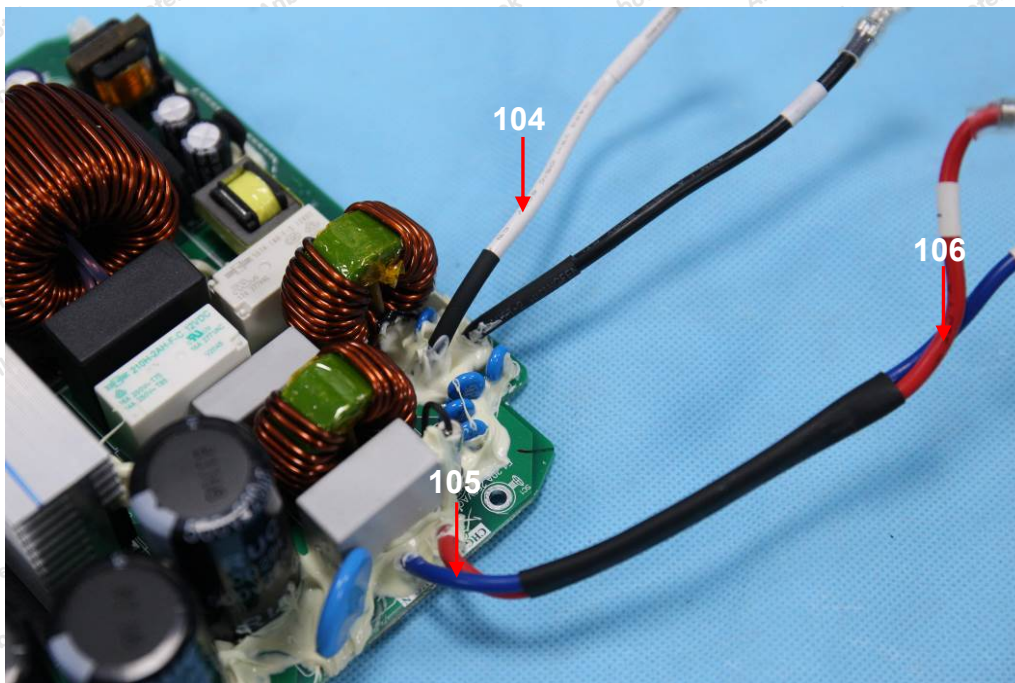


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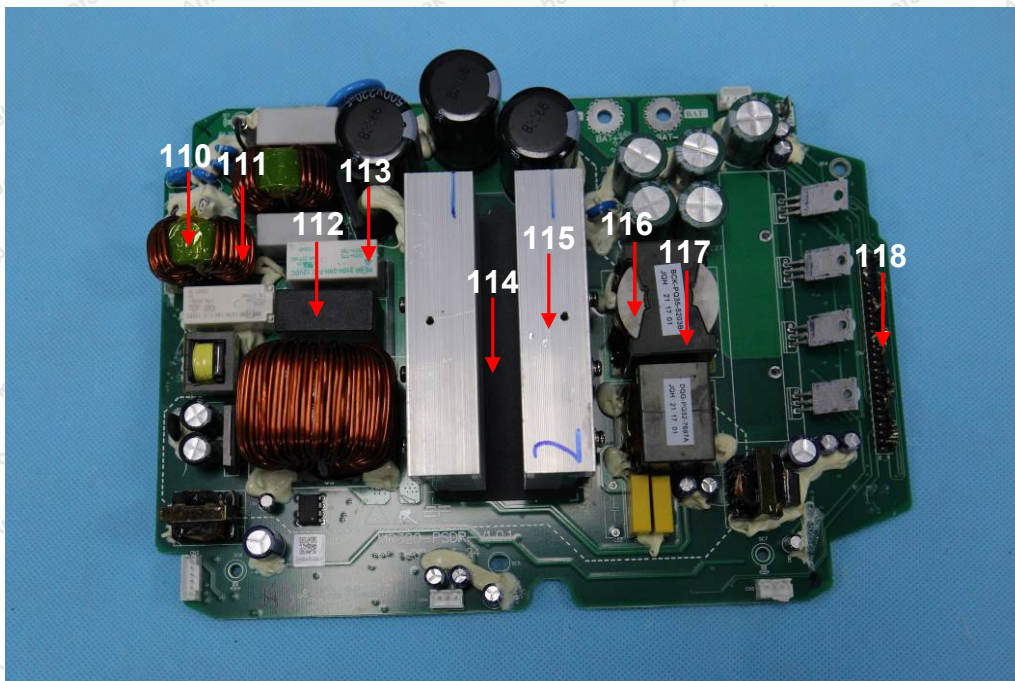
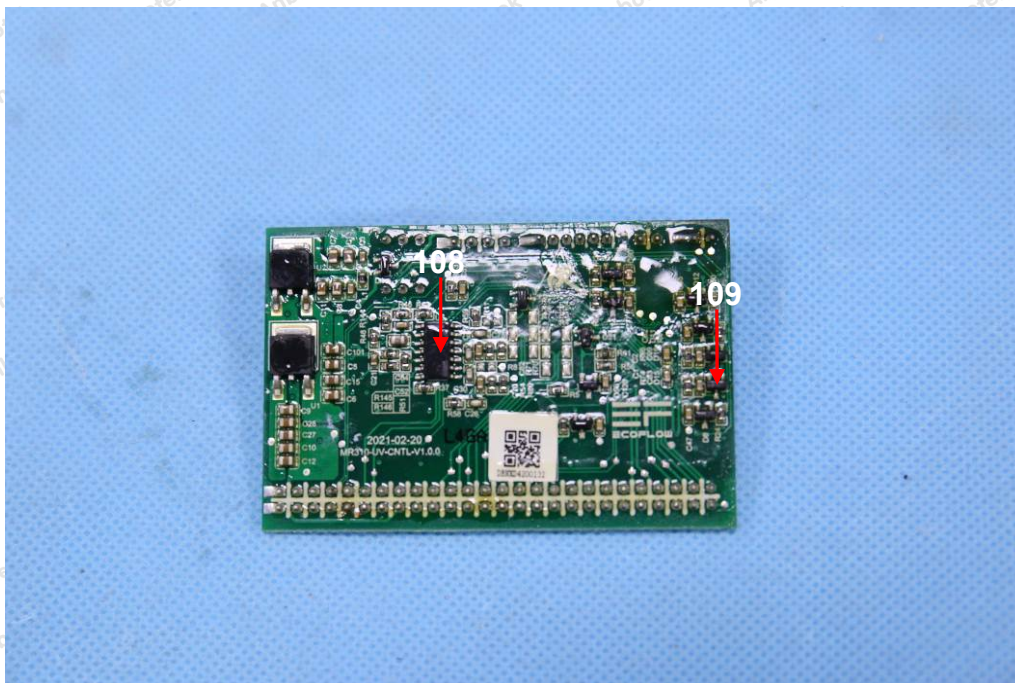


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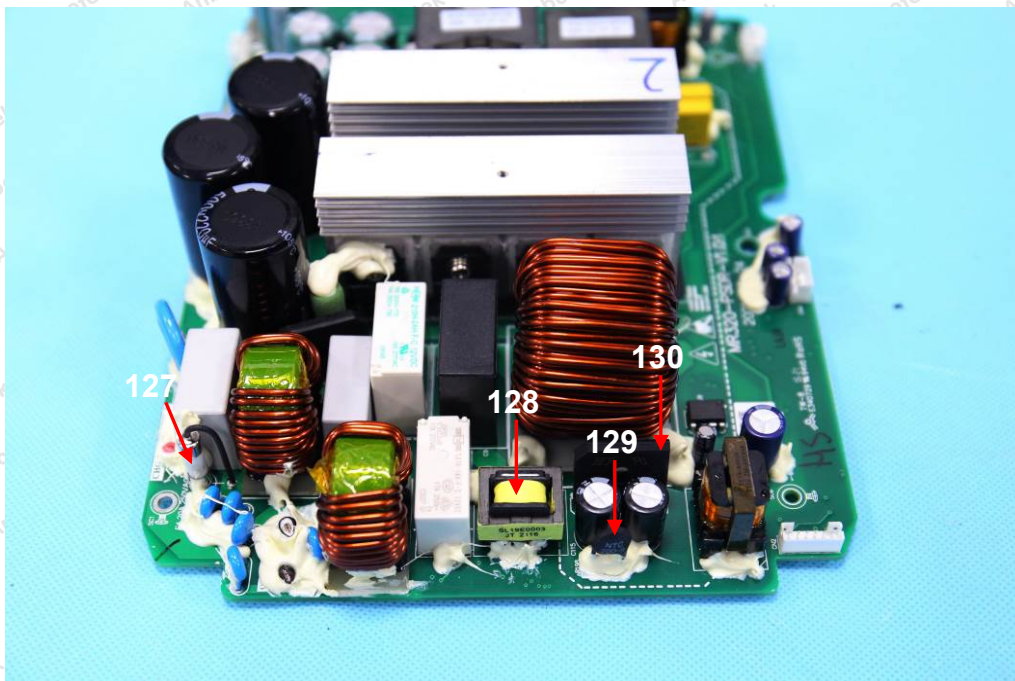
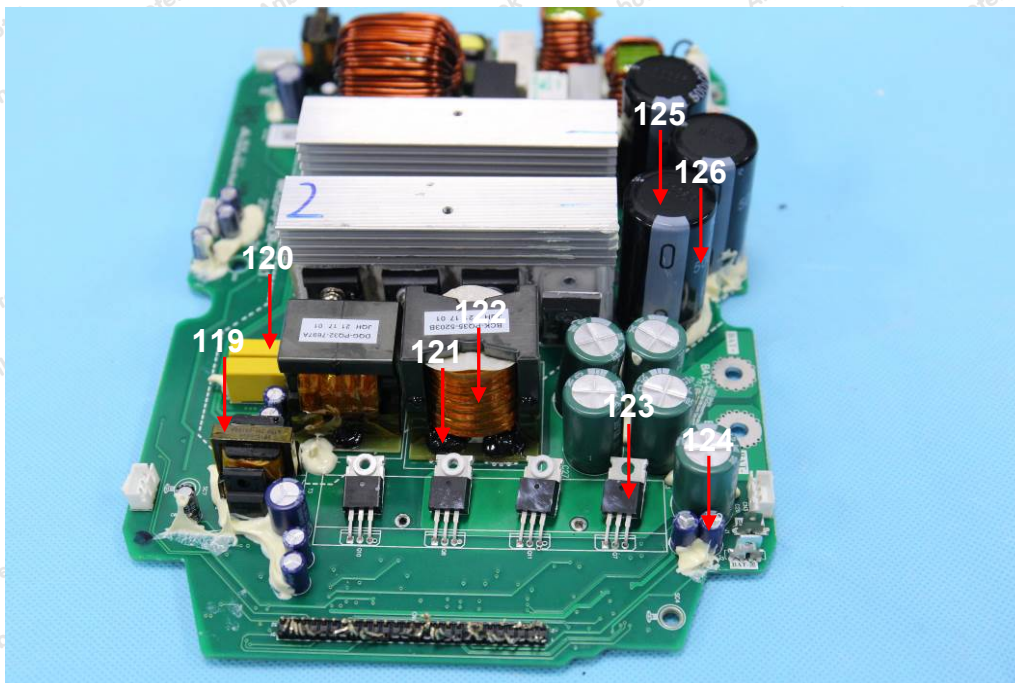


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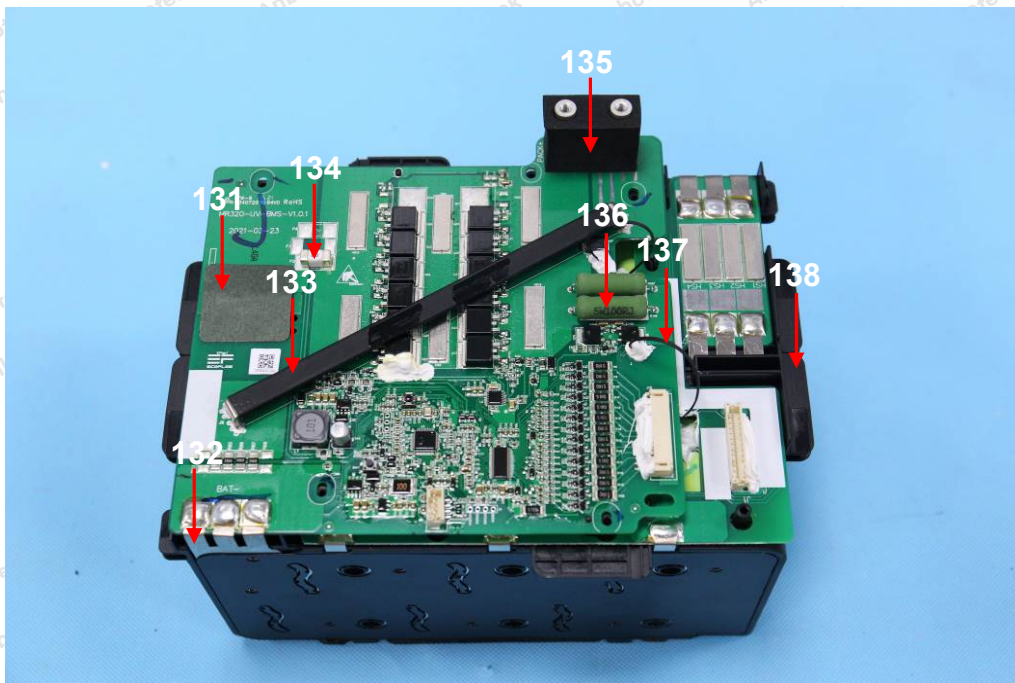


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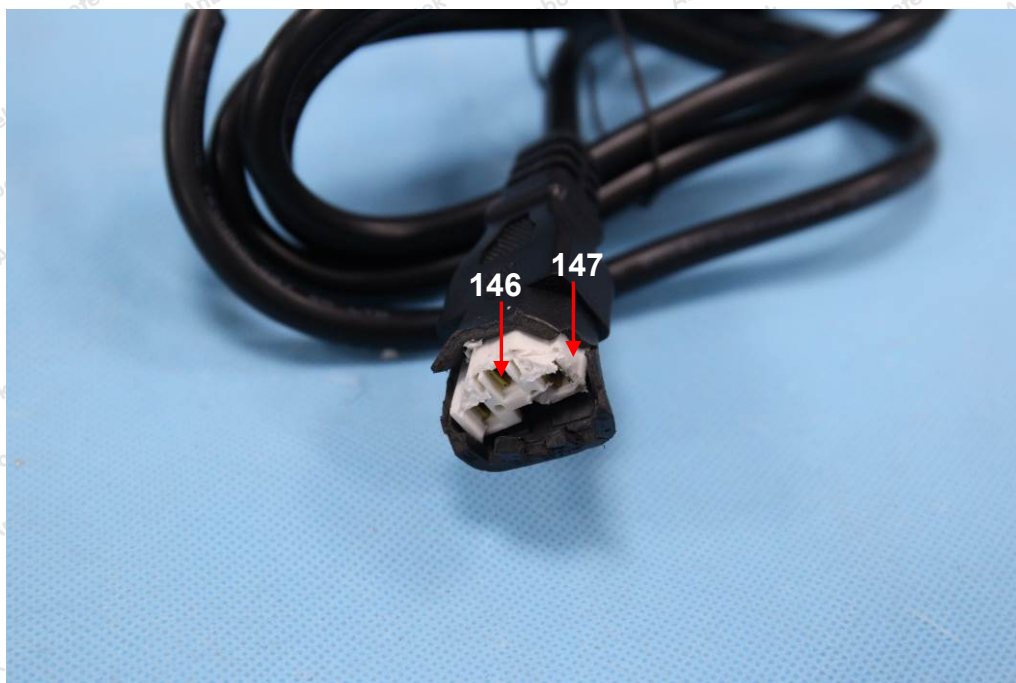
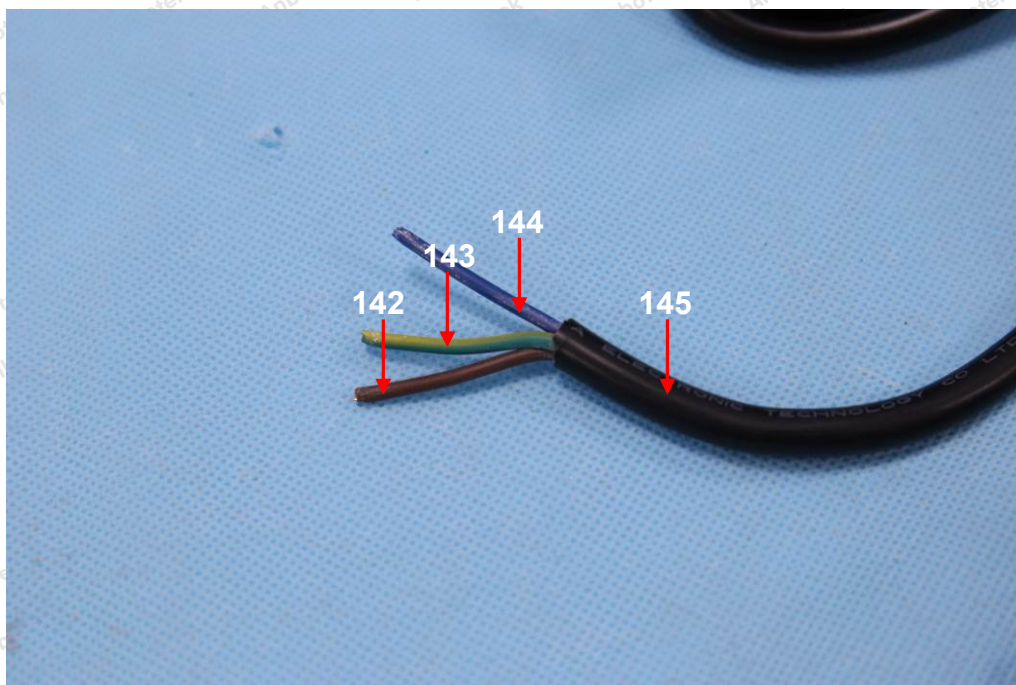


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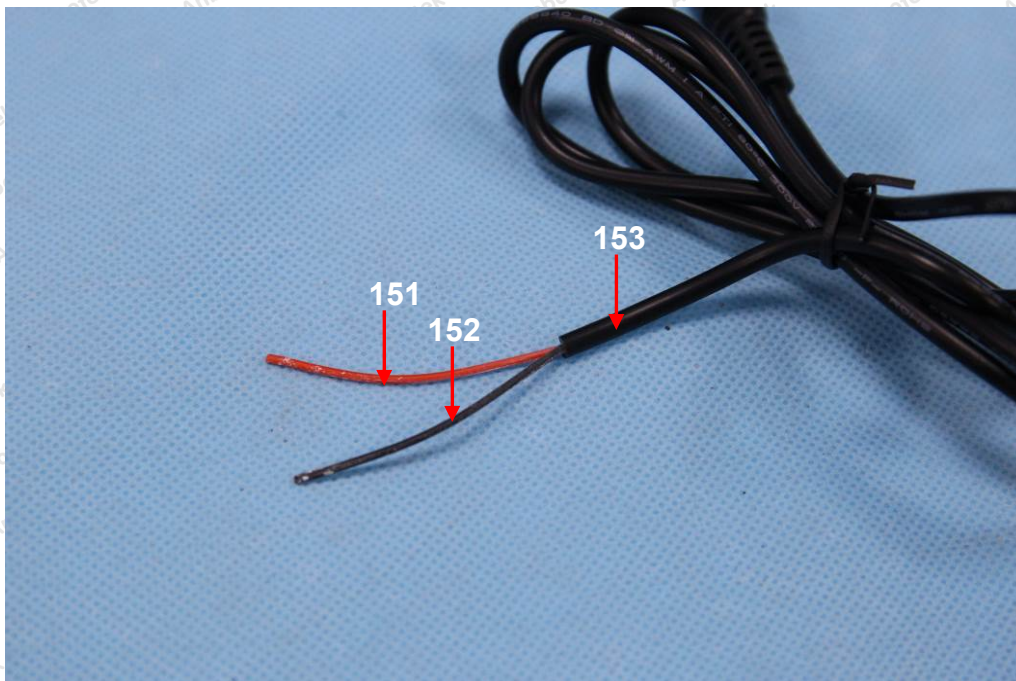
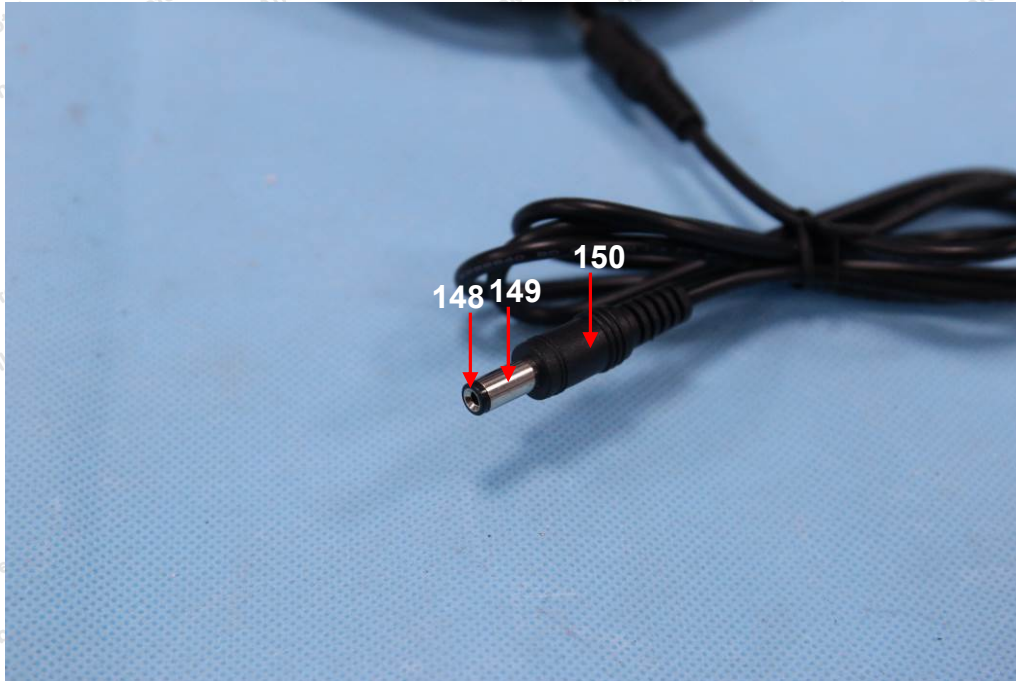


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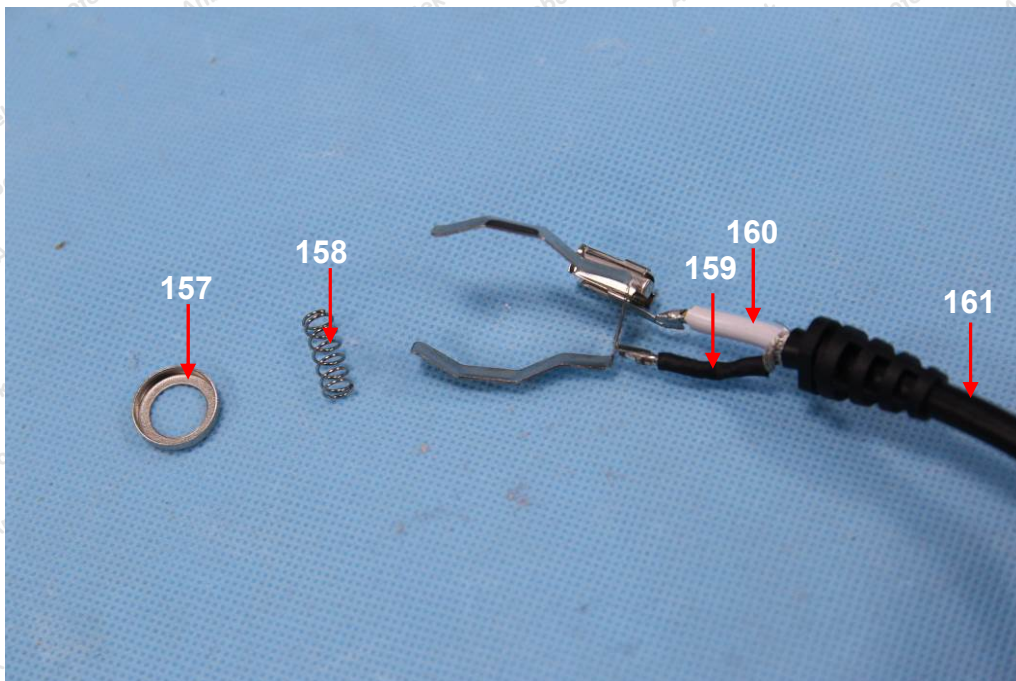


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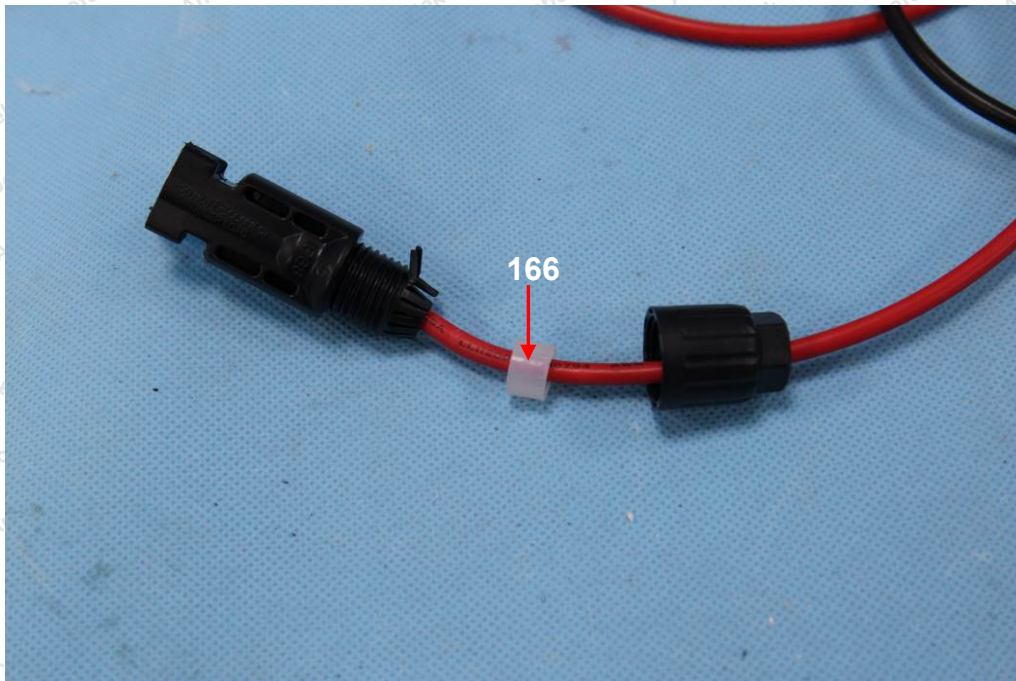
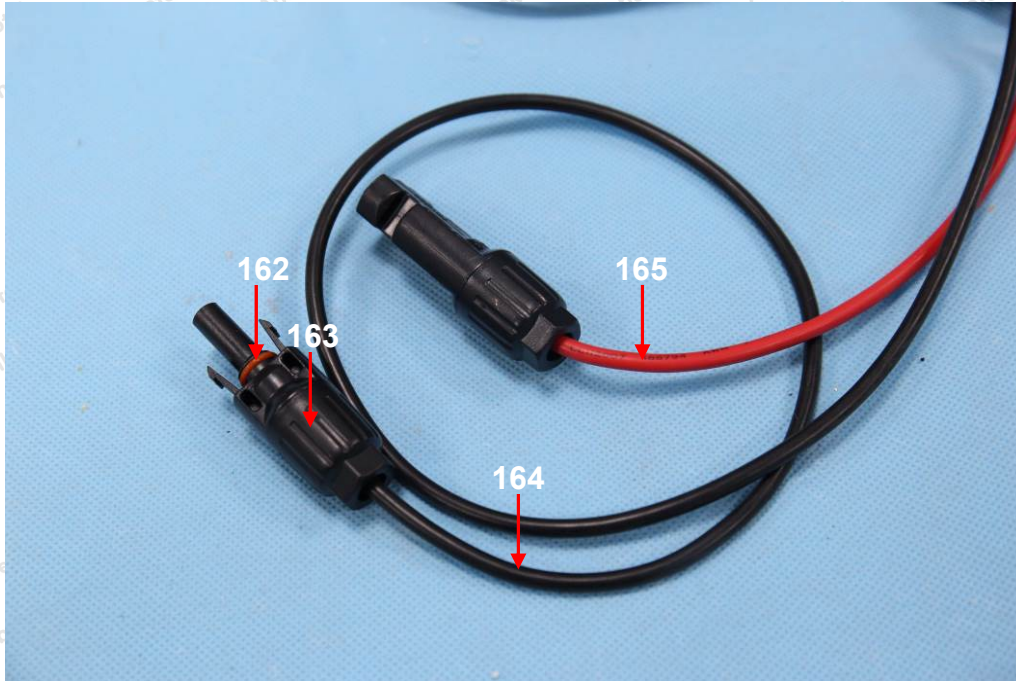


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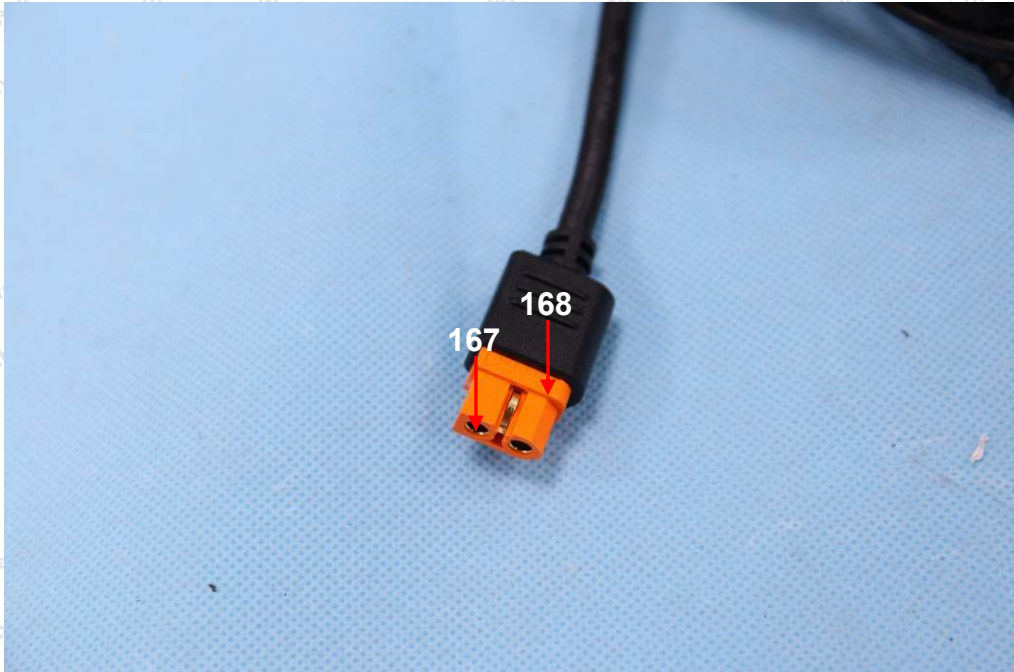


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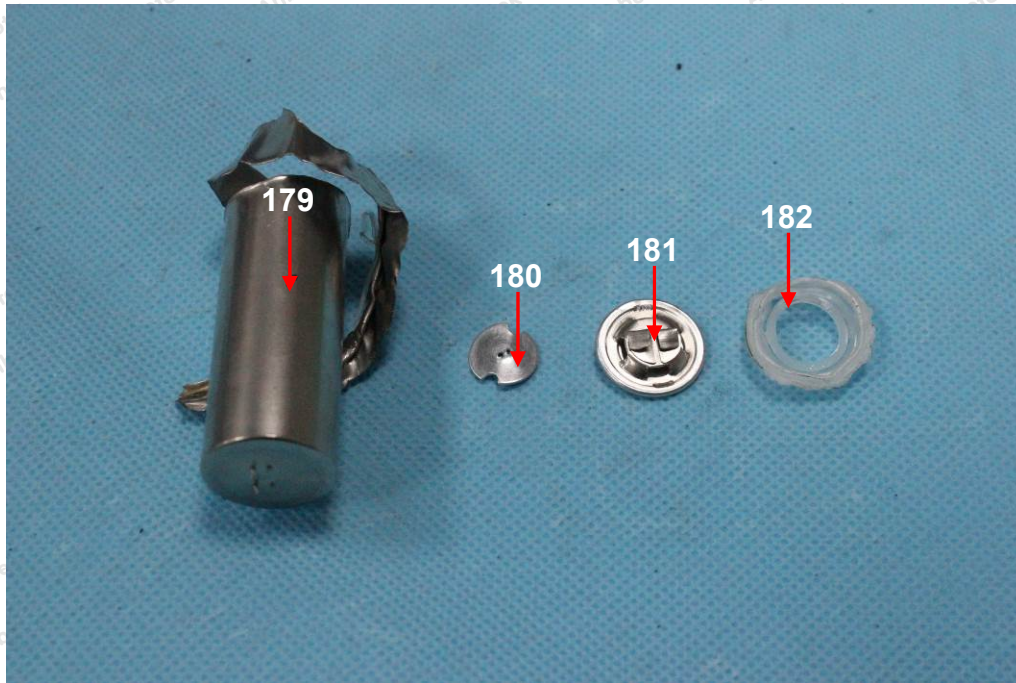


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The following photos are provided by the applicant



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***** End of Report *****

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