

XRF Screening And Chemical Confirmation Test Report

No. : 170817071GZU-001

Date: Sep 20, 2017

Applicant:

Sample Description:

The following submitted sample(s) said to be:

Item Name : **vacuum cleaner**
 Model No. : 8831R, 8021A, 8021B, 8021C
 831 SERIES, 8025 SERIES, 781 SERIES, 791 SERIES, 8021
 Ref. No. : SERIES, 8831 SERIES, 838 SERIES, 839 SERIES, 807 SERIES,
 8808 SERIES
 Factory's Name :
 Date of Sample Received : Aug 18, 2017&Sep 05,2017
 Testing Period : Aug 18, 2017 to Sep 06, 2017

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Conclusion:

Tested Sample	Standard	Result
Screened components of submitted sample	Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive (2011/65/EU)	Pass

Authorized by:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Martin He
Senior Project Engineer



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Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0: 2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) Results:

Screened Components	XRF Results		Chemical Confirmation Result
(1)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(2)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(3)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(4)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(5)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(6)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(7)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(8)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(9)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(10)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(11)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(12)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(13)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(14)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(15)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(16)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(17)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(18)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(19)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(20)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(21)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(22)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(23)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(24)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(25)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(26)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(27)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(28)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(29)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(30)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(31)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(32)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(33)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(34a)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(34b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(34c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(35)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(36a)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(36b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(36c)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(36d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(36e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(36f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(37)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(38)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(39)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(40)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(41)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(42)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(43)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(44)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(45c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(45e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(45f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45g)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(46a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(46b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(46c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(46d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(46e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(46f)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(47)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(48)	Cd	ND	Cr ⁶⁺ : ND(<1 mg/kg)
	Pb	>1500mg/kg ^{#2}	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(49)	Cd	ND	Cr ⁶⁺ : ND(<1 mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(50)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(51)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(52)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(53)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(54)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(55)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(56)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(57)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(58)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(59)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(60)	Cd	ND	NT
	Pb	>1500mg/kg ^{#2}	
	Hg	ND	
	Cr	ND	
	Br	ND	
(61)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(62)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(63)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(64)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(65)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(66)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(67)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(68)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(69)	Cd	ND	Pb: 34650mg/kg ^{#1}
	Pb	>1300mg/kg	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(70)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(71)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(72)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(73)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(74)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(75)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(76)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(77)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(78)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(79)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(80)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(81)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(82)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(83)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(84)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(85)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(86a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(86b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(86c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(87)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(88a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(88b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(89)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(90)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(91a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(91b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(91c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(91d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(91e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(91f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(91g)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(92)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(93)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(94)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(95)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(96)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(97)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(98)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(99)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(100a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(100b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(100c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(100d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(100e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(100f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(101)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(102)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(103)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(104)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(105)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(106)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(107)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(108)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(109)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(110)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(111)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(112)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(113)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(114)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(115)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(116)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(117)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(118)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(119)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(120)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(121)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(122)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(123)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(124)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(125)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(126)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(127)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(128)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(129)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(130)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(131)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(132)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(133)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(134)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(135)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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(136)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(137)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(138)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(139)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Detected	
(140)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(141)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(142)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(143)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(144)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(145a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(145b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(146a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(146c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(146e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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(146f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(146g)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(147a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(147b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(148a)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(148b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(149a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(149b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(149c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(149d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(149e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(149f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(149g)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(150)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(151a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(151b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(151c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(151d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(152a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(152b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(152c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(152d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(152e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(152f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(152g)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(152h)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(153)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(154)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(155)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(156)	Cd	ND	NT
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	ND	
(157)	Cd	ND	Cr ⁶⁺ : ND(<1 mg/kg)
	Pb	>1500mg/kg ^{#2}	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(158)	Cd	ND	NT
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(159)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(160)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(161)	Cd	ND	NT
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	Detected	
(162)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(163)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(164)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(165)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(166)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(167)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(168)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(169)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(170)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(171)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(172)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(173)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(174)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(175)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(176)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(177)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(178)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(179)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(180)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(181)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(182)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(183)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(184)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(185)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(186a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(186b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(187)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(188)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(189)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(190)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(191)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(192)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(193)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(194)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(195)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(196)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(197)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
(198)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(199)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(200)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(201)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(202)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(203)	Cd	ND	Cr ⁶⁺ : Negative(<0.10 µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(204)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(205)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(206)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(207)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(208)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(209)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(210)	Cd	ND	NT
	Pb	Detected	
	Hg	ND	
	Cr	ND	
	Br	ND	
(211)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(212)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(213a)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	



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Screened Components	XRF Results		Chemical Confirmation Result
(213b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(214)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(215)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(216)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(217)	Cd	ND	NT
	Pb	>1500mg/kg ^{#3}	
	Hg	ND	
	Cr	ND	
	Br	ND	
(218)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(219)	Cd	ND	Cr ⁶⁺ : ND(<1 mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(220)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(221)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(222)	Cd	ND	PBBs : ND(<5mg/kg) PBDEs : ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(223a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(223b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(223c)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(223d)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(223e)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(223f)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
(223g)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

Detected = Below the lower screening limit of table (B) and pass

ND = Not detected

NT = Not tested

Negative = The Cr (VI) concentration is less than 0.10 µg/cm². The sample is negative for Cr (VI).

Remark:

(#1) = As claimed by the declaration submitted from the 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.

(#2) = As claimed by the declaration submitted from the applicant, the Lead content of the components is coming from the constituent of glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or a glass or ceramic matrix compound of the electrical and electronic component only. According to the RoHS recast directive 2011/65/EU, Lead in this component can be exempted.

(#3) = As claimed by the declaration submitted from the applicant, the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive (2011/65/EU), Lead in high melting temperature type solders of the component can be exempted.

(B) XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm



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(C) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

Disclaimers:

This XRF Screening and Chemical Confirmation Test Report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test Report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(D) Chemical Confirmation Test Methods:

Testing Item	Testing Method	Reporting Limit
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321 edition 1.0:2008, by alkaline digestion and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-1 edition 1.0:2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.10 µg/cm ²
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg

(E) 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)

The above limits were quoted from 2011/65/EU for homogeneous material.



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Screened components:

- (1) Silvery metal
- (2) Grey plastic
- (3) Black plastic
- (4) Silvery metal
- (5) Red plastic
- (6) White glue
- (7) Golden metal
- (8) Black plastic
- (9) Copper color metal
- (10) Silvery metal
- (11) Black plastic(wire covering)
- (12) Silvery metal wire
- (13) Silvery metal
- (14) Black plastic
- (15) Solder
- (16) Red plastic(wire covering)
- (17) Red plastic
- (18) Black soft plastic
- (19) Red plastic
- (20) Semi-transparent black plastic
- (21) Black plastic
- (22) Black woven
- (23) Black plastic
- (24) Black soft plastic
- (25) Black plastic
- (26) White plastic
- (27) Silvery metal
- (28) Black string
- (29) Black cotton
- (30) Black plastic
- (31) Black plastic
- (32) Black plastic
- (33) Silvery metal(spring)
- (34) LED
 - (a) Transparent plastic
 - (b) Silvery metal(pin)
 - (c) Black plastic
- (35) Yellow glue(Received in 2017-9-5)
- (36) Switch



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- (a) Black plastic
- (b) Silvery metal
- (c) Black plastic
- (d) Silvery metal
- (e) Black treated metal(spring)
- (f) Silvery metal
- (37) Green PCB
- (38) Solder
- (39) Silvery metal
- (40) Red/white plastic(wire covering)
- (41) Silvery metal wire
- (42) White plastic
- (43) Grey plastic
- (44) Black soft plastic
- (45) Capacitor
 - (a) Black plastic with white printing
 - (b) Silvery metal(case)
 - (c) Beige paper(electrolytic paper)
 - (d) Dull silver-grey metal sheet(electrolytic paper)
 - (e) Bright silver-grey metal sheet(electrolytic paper)
 - (f) Black soft plastic
 - (g) Silvery metal(pin)
- (46) A~f
 - (a) Black plastic
 - (b) Solder
 - (c) Silvery metal
 - (d) Silvery metal
 - (e) Silvery metal
 - (f) Black plastic
- (47) Black plastic
- (48) White ceramic with black material & white printing & silvery metal(SMD resistor)
- (49) White ceramic with black material & white printing & silvery metal(SMD resistor)
- (50) Solder
- (51) Green PCB
- (52) Black body with silvery metal(SMD triode)
- (53) Black body with silvery metal(SMD diode)
- (54) Black body with silvery metal(SMD diode)
- (55) Black body with silvery metal(IC)
- (56) Brown ceramic with silvery metal(SMD capacitor)
- (57) Brown ceramic with silvery metal(SMD capacitor)
- (58) Black body with silvery metal(IC)



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- (59) Brown ceramic with silvery metal(SMD capacitor)
- (60) White ceramic with black material & white printing & silvery metal(SMD resistor)
- (61) Black body with silvery metal(SMD triode)
- (62) Silvery metal
- (63) White plastic
- (64) Black soft plastic
- (65) Transparent plastic
- (66) Transparent plastic
- (67) Silvery metal
- (68) Silvery metal
- (69) Golden metal
- (70) Silvery metal
- (71) Black magnet
- (72) Black treated metal
- (73) Transparent plastic
- (74) Copper color metal
- (75) Copper color metal wire
- (76) Brown material
- (77) Brown plastic
- (78) Silvery metal
- (79) Silvery metal
- (80) Copper color metal
- (81) Green plastic
- (82) Silvery metal
- (83) Green plastic
- (84) Golden metal
- (85) Golden metal
- (86) Inductor
 - (a) Copper color metal wire
 - (b) Black magnet
 - (c) Silvery metal(pin)
- (87) Solder
- (88) Capacitor
 - (a) Yellow body
 - (d) Silvery metal(pin)
- (89) Black carbon
- (90) Copper color metal
- (91) Capacitor
 - (a) Black plastic with white printing
 - (b) Silvery metal(case)
 - (c) Beige paper(electrolytic paper)



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- (d) Dull silver-grey metal sheet(electrolytic paper)
- (e) Bright silver-grey metal sheet(electrolytic paper)
- (f) Black soft plastic
- (g) Silvery metal(pin)
- (92) Copper color metal
- (93) Brown plastic
- (94) Silvery metal
- (95) Silvery metal
- (96) Brown plastic
- (97) Grey plastic
- (98) Silvery metal
- (99) Black plastic
- (100) Fuse
 - (a) Silvery metal
 - (b) Silvery metal
 - (c) Silvery metal wire
 - (d) Silvery metal wire
 - (e) Transparent glass
 - (f) Silvery metal(pin)
- (101) Golden metal
- (102) White plastic
- (103) Grey plastic
- (104) Silvery metal
- (105) Black plastic
- (106) Silvery metal
- (107) White plastic
- (108) Blue plastic(wire covering)
- (109) Black plastic(wire covering)
- (110) Black plastic
- (111) Black plastic
- (112) Silvery metal
- (113) Black plastic
- (114) Black plastic
- (115) Silvery metal
- (116) White plastic
- (117) White plastic
- (118) Black plastic
- (119) Silvery metal
- (120) Silvery metal(Received in 2017-9-5)
- (121) Golden metal
- (122) Copper color metal



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- (123) Copper color carbon
- (124) Copper color metal
- (125) Silvery metal
- (126) White plastic
- (127) Black treated metal
- (128) Black magnet
- (129) White plastic
- (130) Copper color metal
- (131) Black plastic
- (132) White plastic
- (133) White plastic
- (134) Silvery metal
- (135) Green plastic
- (136) Copper color metal wire
- (137) Golden metal
- (138) Silvery metal
- (139) Black plastic
- (140) Silvery metal
- (141) White glue
- (142) Black plastic
- (143) Black plastic
- (144) Copper color metal wire
- (145) Capacitor
 - (a) Blue body
 - (b) Silvery metal(pin)
- (146) Capacitor
 - (a) Black plastic with white printing
 - (b) Silvery metal(case)
 - (c) Beige paper(electrolytic paper)
 - (d) Dull silver-grey metal sheet(electrolytic paper)
 - (e) Bright silver-grey metal sheet(electrolytic paper)
 - (f) Black soft plastic
 - (g) Silvery metal(pin)
- (147) Resistor
 - (a) Ceramic with coatings
 - (b) Silvery metal(pin)
- (148) Triode
 - (a) Black body
 - (b) Silvery metal(pin)
- (149) Capacitor
 - (a) Black plastic with white printing



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- (b) Silvery metal(case)
- (c) Beige paper(electrolytic paper)
- (d) Dull silver-grey metal sheet(electrolytic paper)
- (e) Bright silver-grey metal sheet(electrolytic paper)
- (f) Black soft plastic
- (g) Silvery metal(pin)
- (150) Silvery metal
- (151) Inductor
 - (a) Black plastic with coatings
 - (b) Black magnet
 - (c) Copper color metal wire
 - (d) Silvery metal(pin)
- (152) Transformer
 - (a) Yellow tape
 - (b) Black plastic
 - (c) Yellow plastic
 - (d) Copper color metal wire
 - (e) Black magnet
 - (f) Copper color metal wire
 - (g) Semi-transparent plastic
 - (h) Silvery metal(pin)
- (153) Solder
- (154) Green PCB
- (155) Brown ceramic with silvery metal(SMD capacitor)
- (156) Black body with silvery metal(SMD diode)
- (157) White ceramic with black material & white printing & silvery metal(SMD resistor)
- (158) Black body with silvery metal(SMD diode)
- (159) Black body with silvery metal(IC)
- (160) Brown ceramic with silvery metal(SMD capacitor)
- (161) Black body with silvery metal(SMD diode)
- (162) Black plastic
- (163) Solder
- (164) Silvery metal
- (165) Black plastic
- (166) Silvery metal
- (167) White plastic
- (168) Copper color metal
- (169) Silvery metal
- (170) Grey plastic
- (171) Silvery metal
- (172) Grey plastic



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- (173) Semi-transparent black plastic
- (174) Black plastic
- (175) Grey cotton
- (176) Black plastic
- (177) Black soft plastic
- (178) Grey plastic
- (179) Grey plastic
- (180) Pink plastic
- (181) Transparent plastic
- (182) Silvery metal
- (183) Solder
- (184) Silvery metal
- (185) White plastic
- (186) Capacitor
 - (a) Yellow body
 - (b) Silvery metal(pin)
- (187) Silvery metal
- (188) Golden metal
- (189) Silvery metal
- (190) Black soft plastic
- (191) Copper color metal
- (192) Copper color carbon
- (193) Copper color metal
- (194) Copper color metal
- (195) Silvery metal
- (196) Black magnet
- (197) Silvery metal
- (198) Silvery metal
- (199) Brown plastic
- (200) Golden metal
- (201) White plastic
- (202) Blue glue
- (203) Silvery metal
- (204) Green plastic
- (205) Black material
- (206) Copper color metal
- (207) Copper color metal wire
- (208) Transparent plastic
- (209) Silvery metal
- (210) White ceramic with black material & white printing & silvery metal(SMD resistor)
- (211) Black body with silvery metal(SMD triode)



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- (212) Dark brown ceramic with silvery metal(SMD capacitor)
- (213) LED
 - (a) Transparent plastic
 - (b) Silvery metal(pin)
- (214) Black body with silvery metal(IC)
- (215) Brown ceramic with silvery metal(SMD capacitor)
- (216) Black body with silvery metal(SMD diode)
- (217) Black body with silvery metal(SMD triode)
- (218) Brown ceramic with silvery metal(SMD capacitor)
- (219) White ceramic with black material & white printing & silvery metal(SMD resistor)
- (220) Black body with silvery metal(SMD diode)
- (221) Solder
- (222) Green plastic
- (223) Capacitor
 - (a) Black plastic with golden printing
 - (b) Silvery metal(case)
 - (c) Beige paper(electrolytic paper)
 - (d) Dull silver-grey metal sheet(electrolytic paper)
 - (e) Bright silver-grey metal sheet(electrolytic paper)
 - (f) Black soft plastic
 - (g) Silvery metal(pin)



Sample photo

170817071GZU-001-01



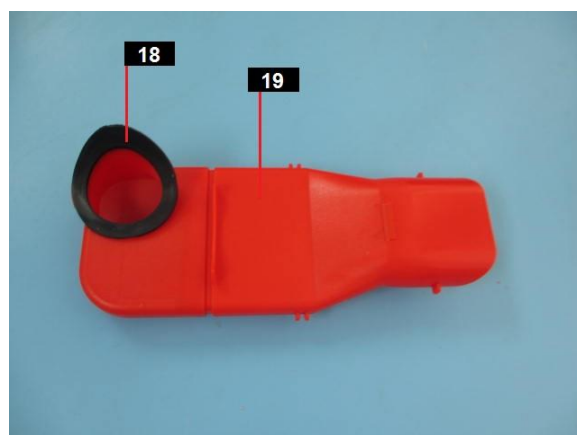
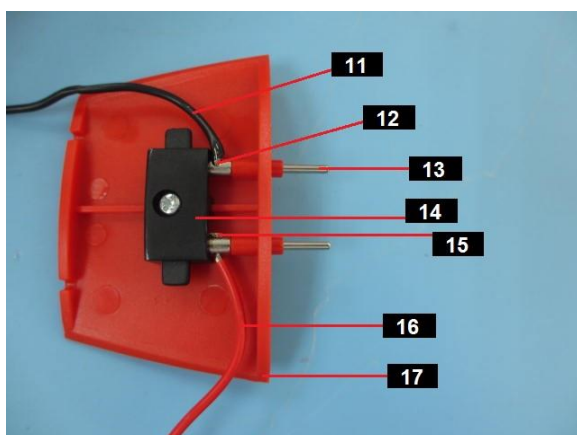
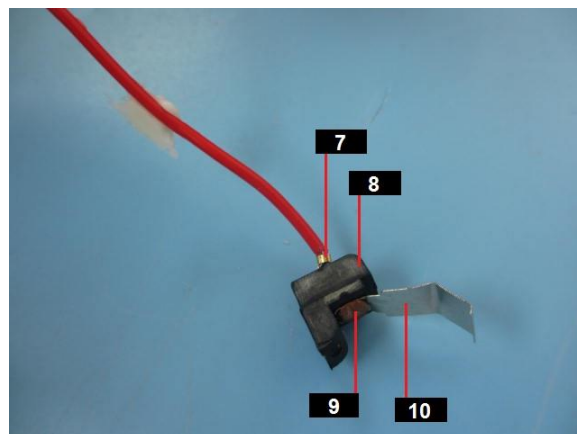
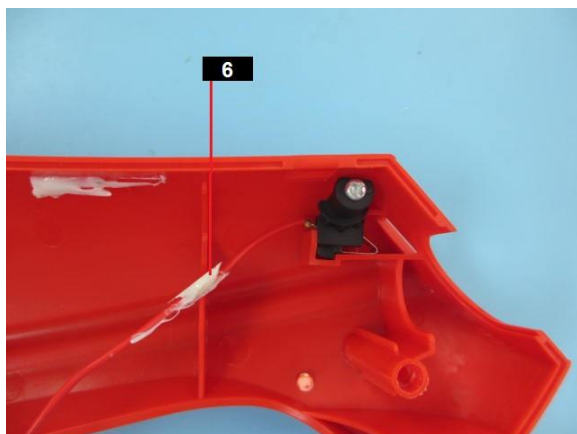
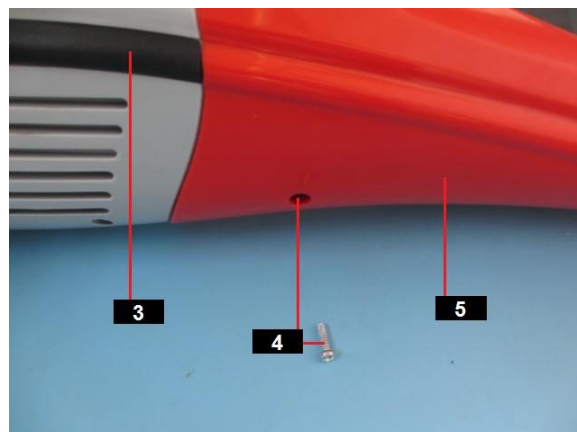
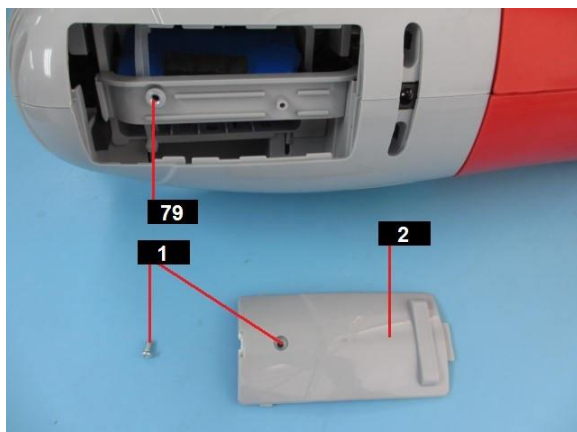
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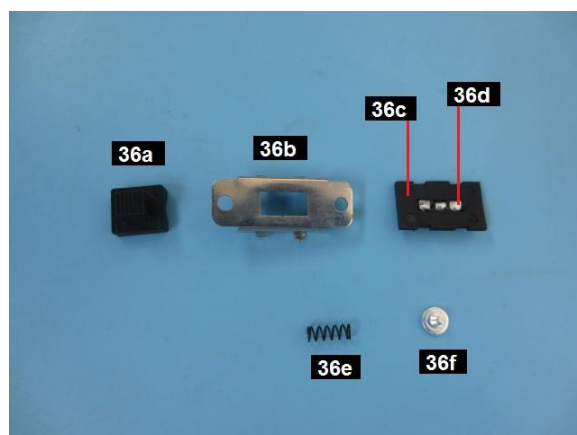
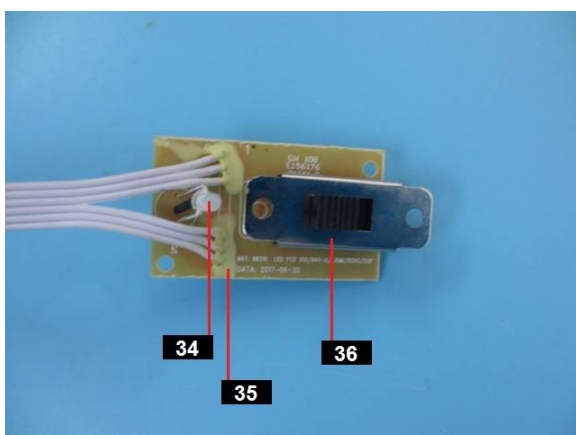
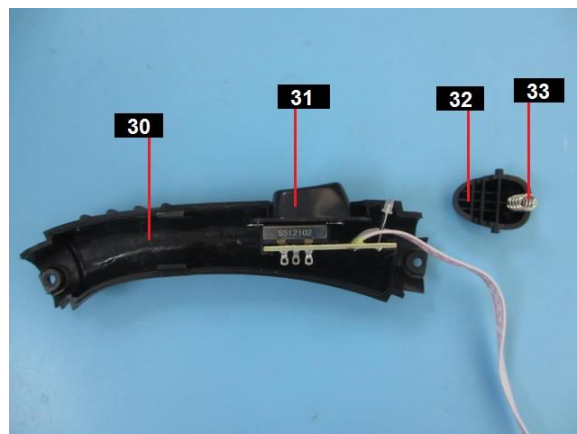
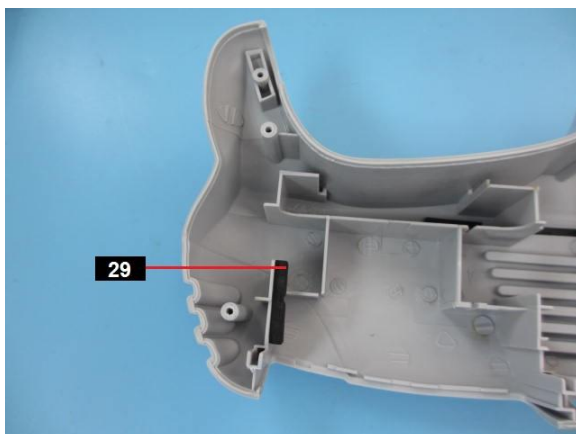
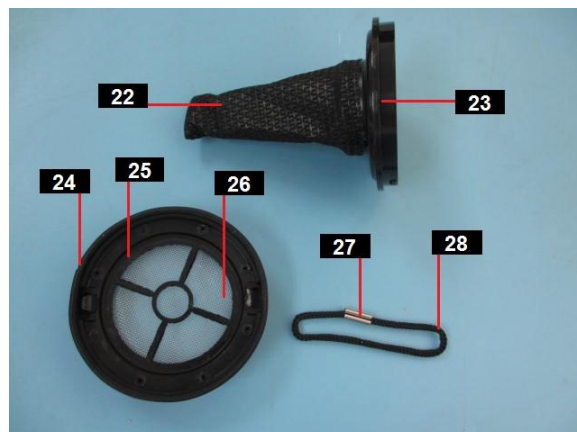
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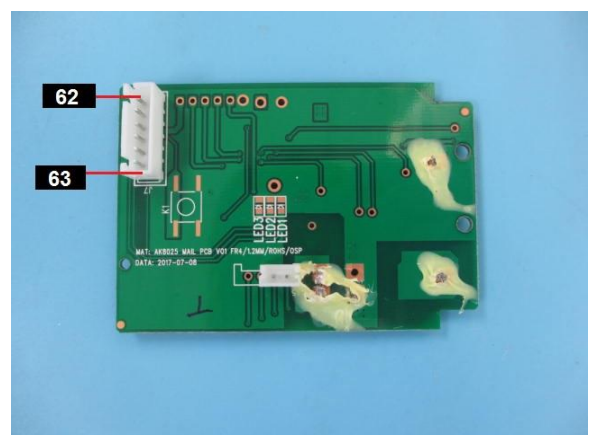
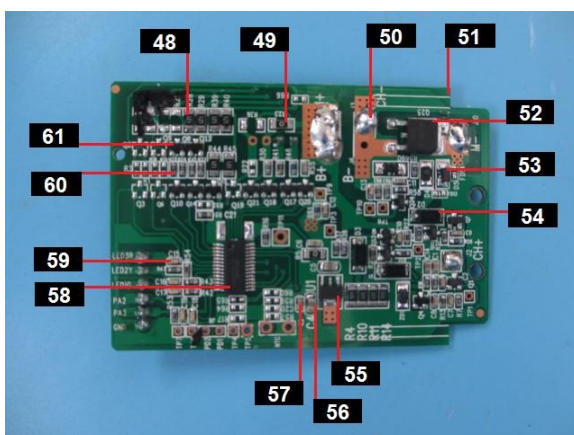
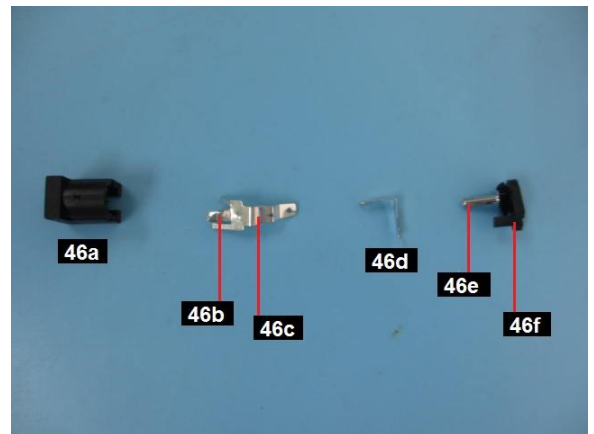
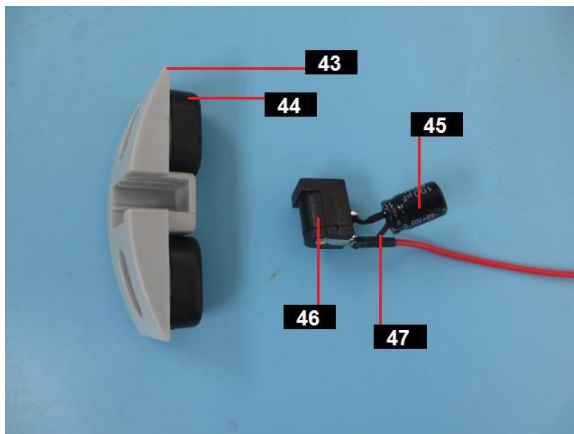
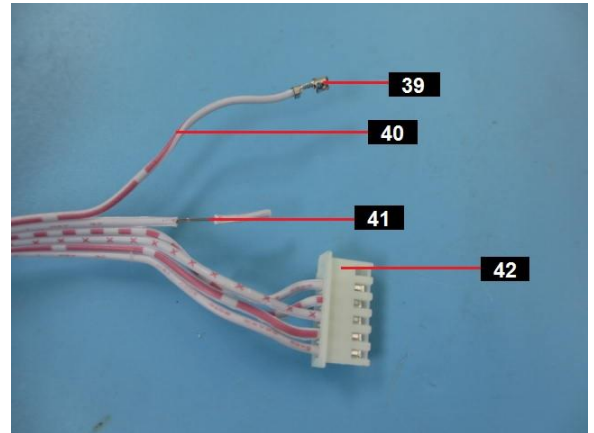
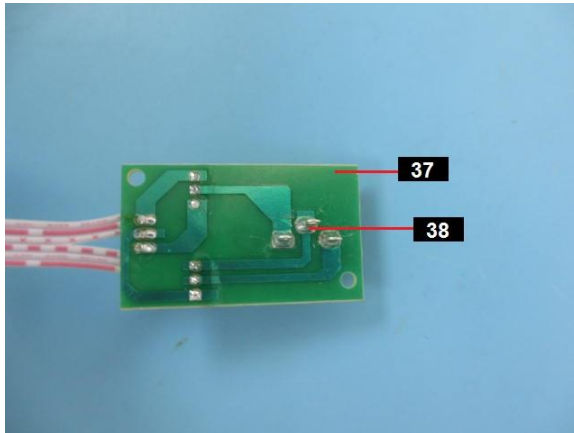
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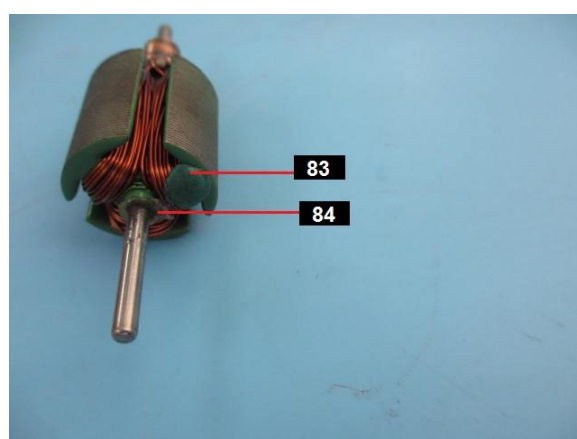
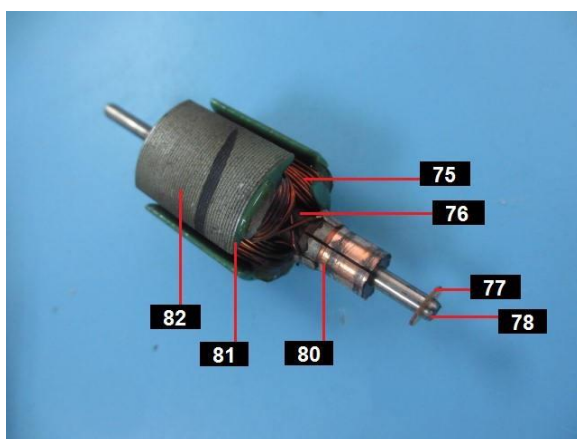
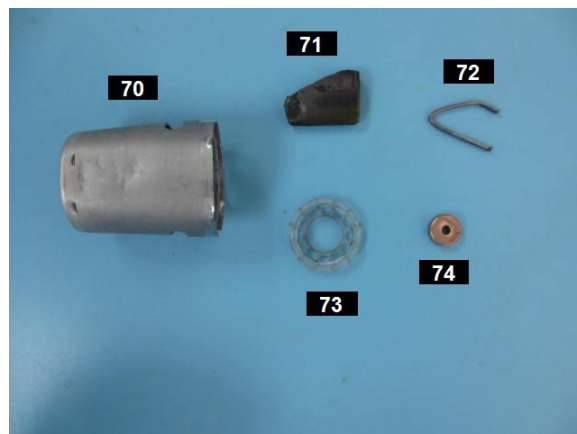
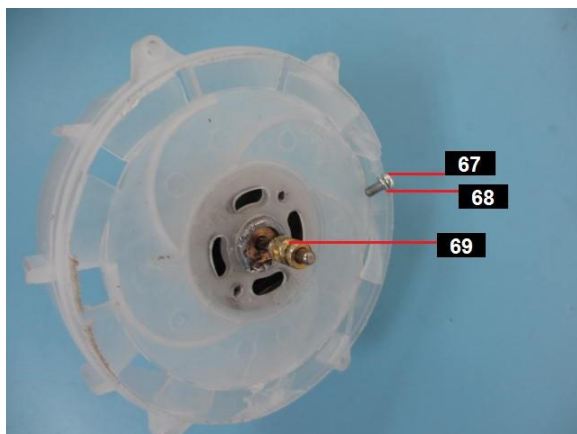
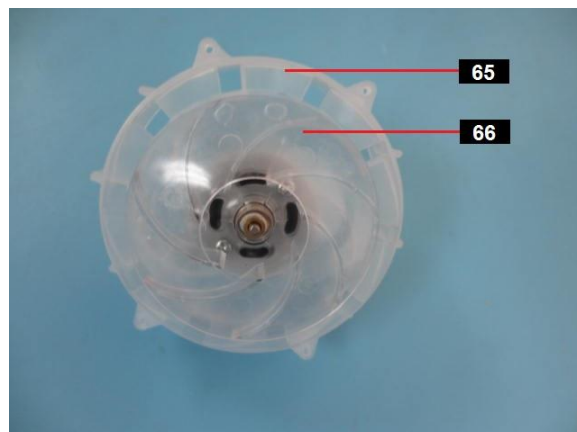
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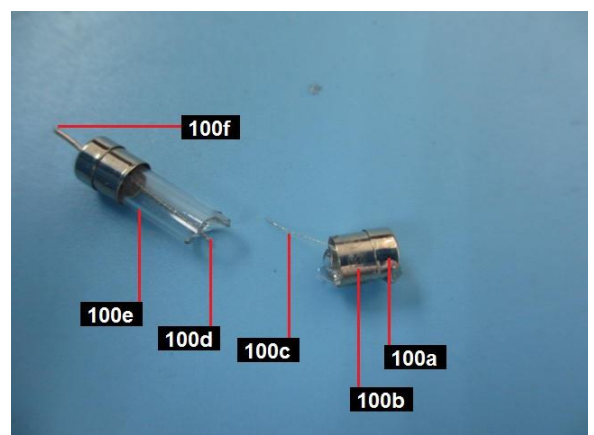
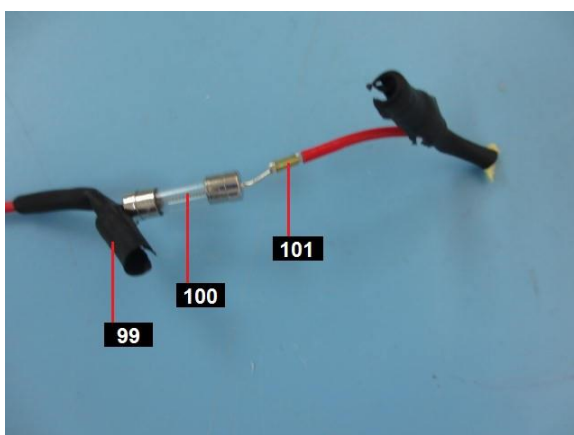
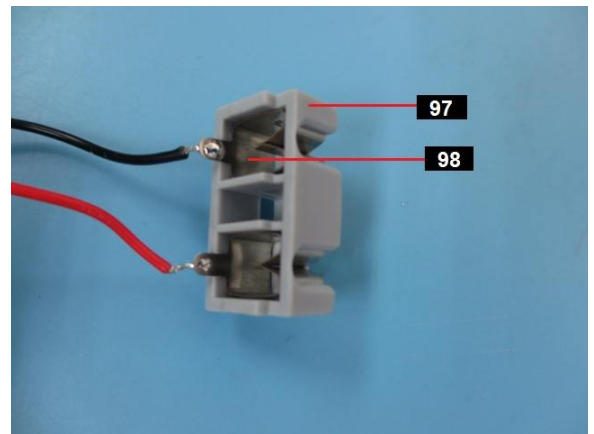
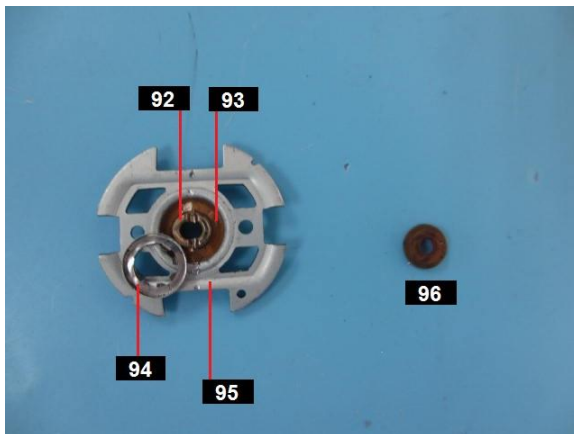
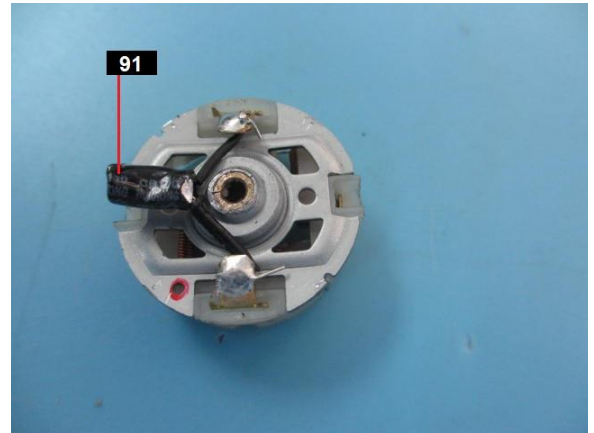
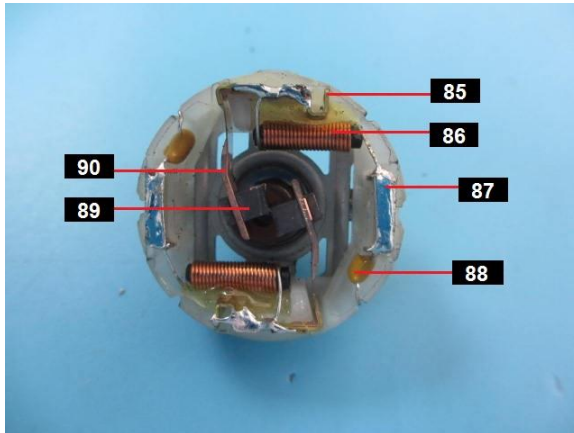
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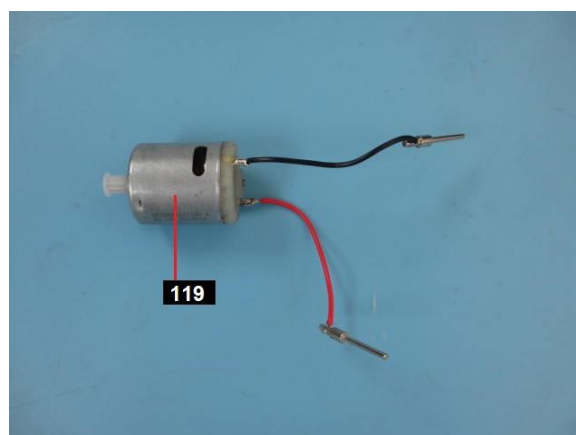
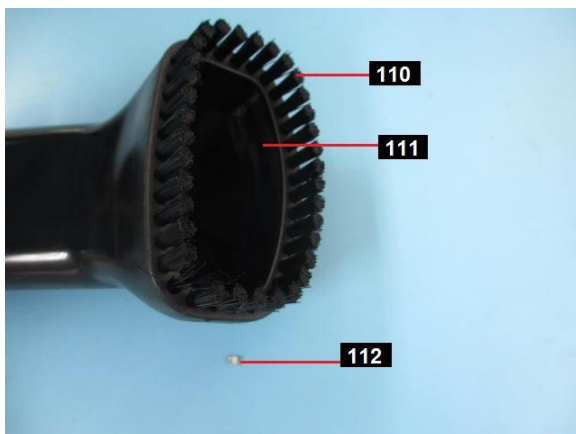
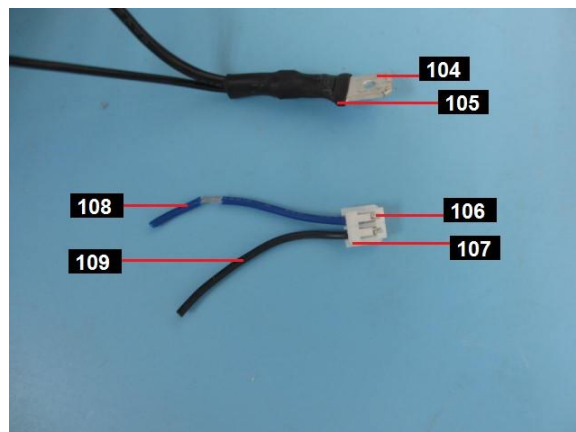
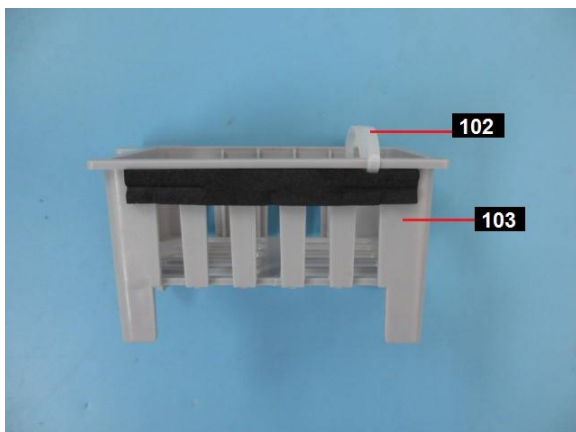
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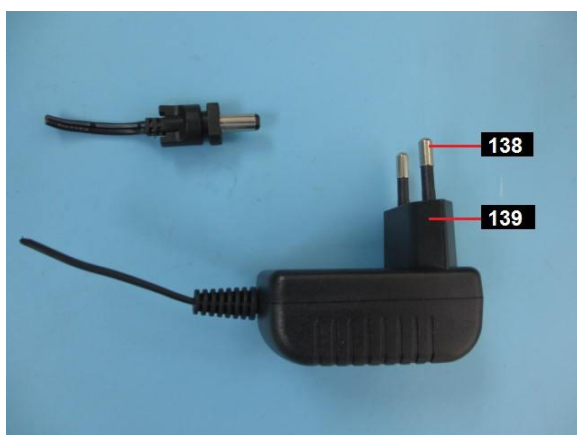
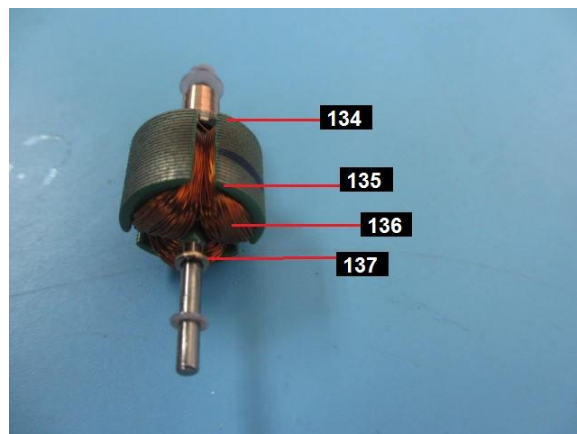
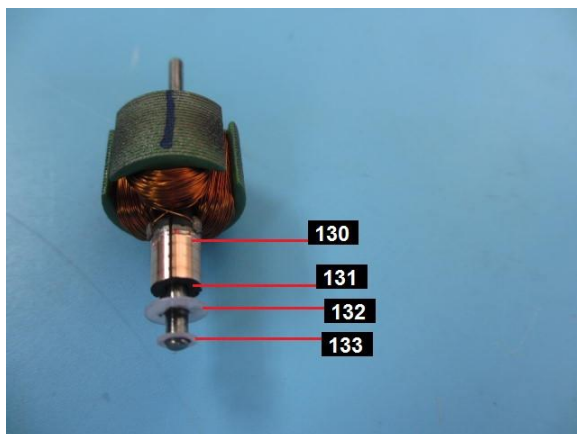
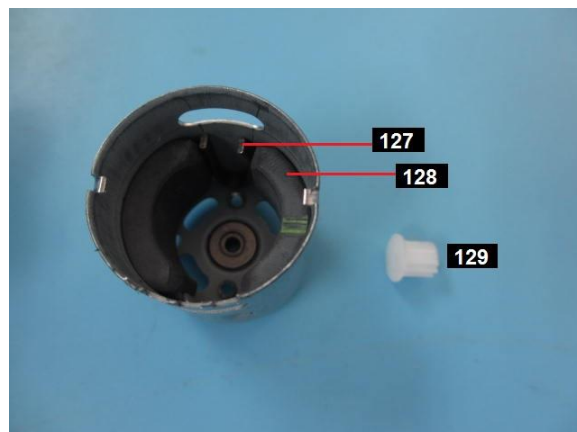
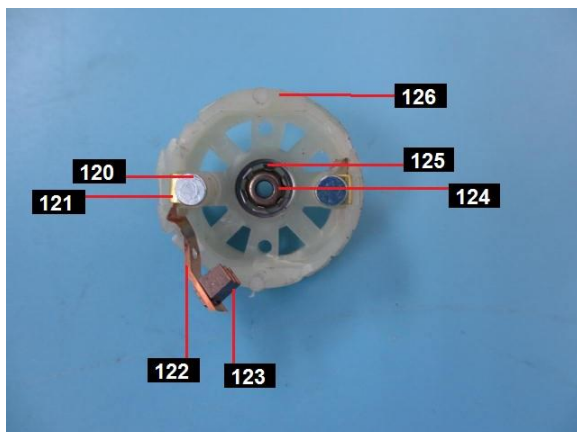
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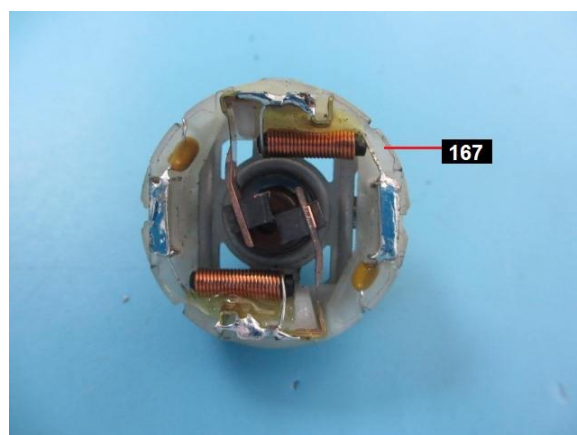
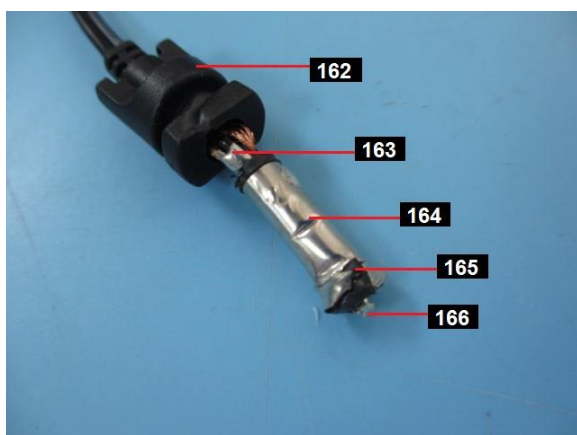
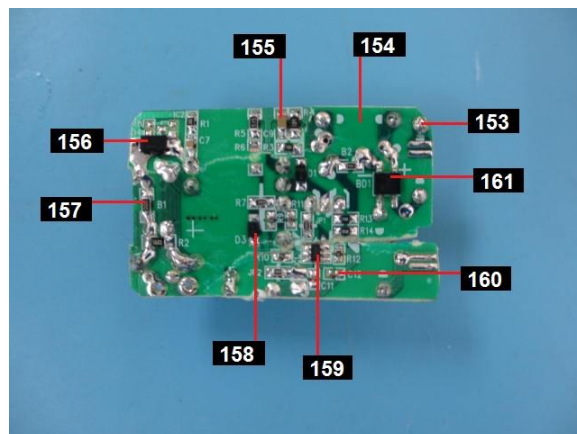
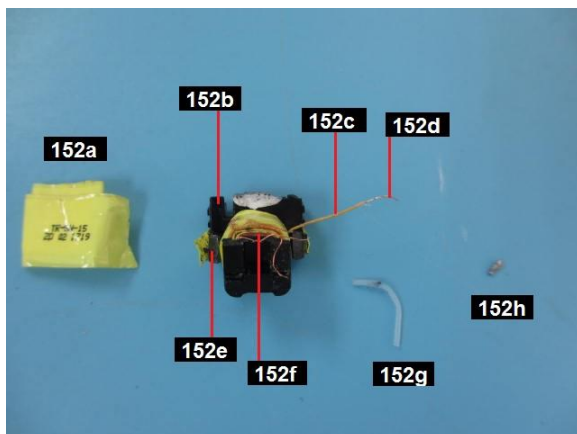
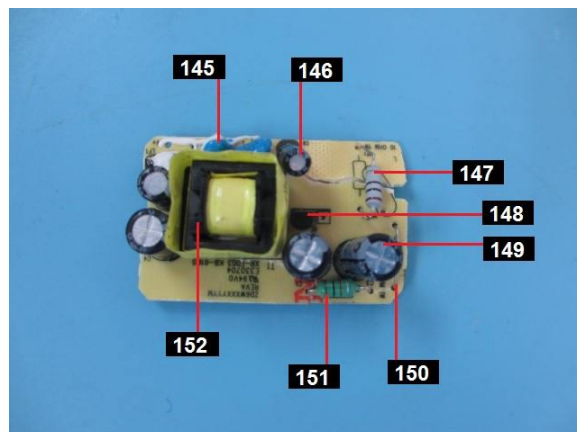
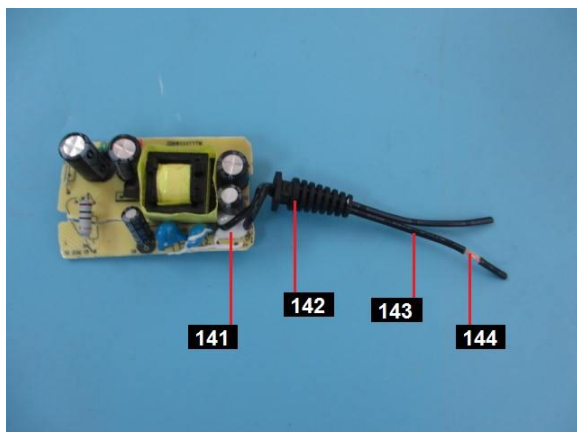
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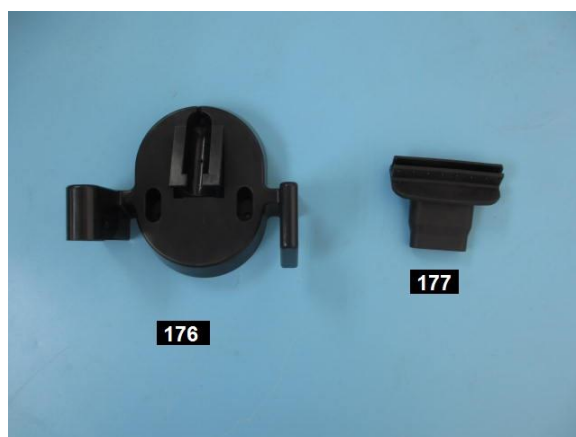
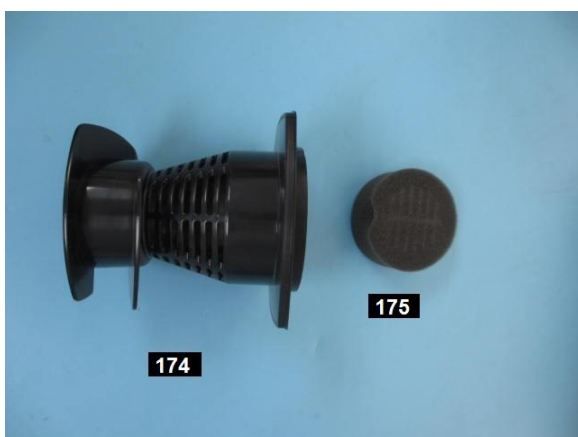
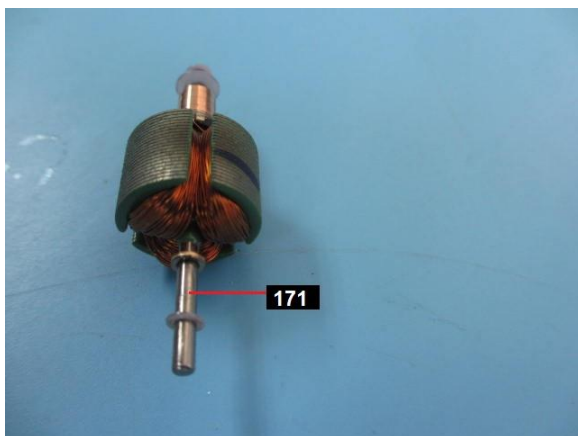
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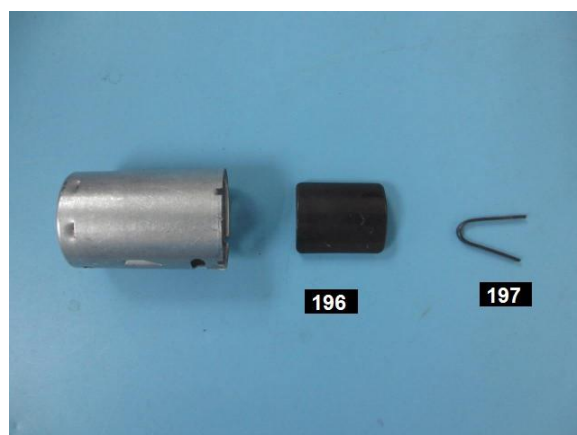
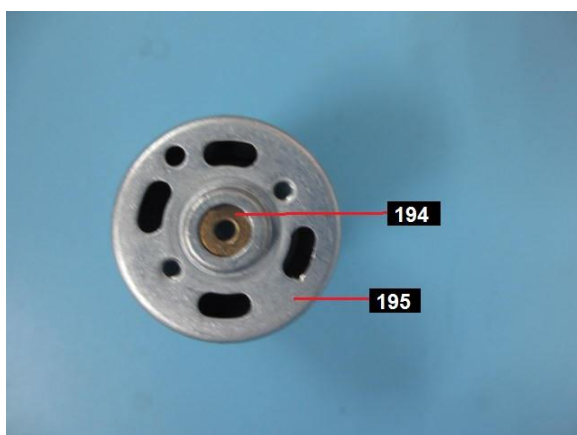
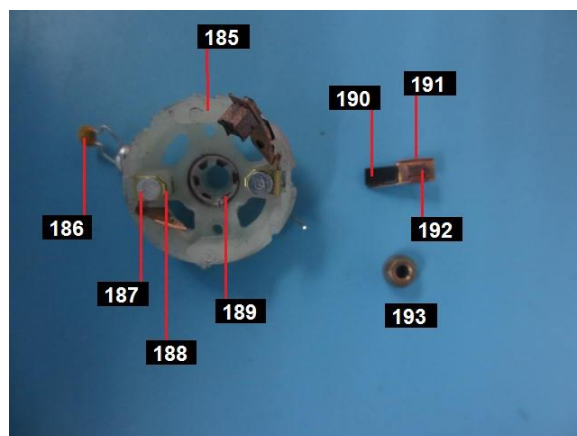
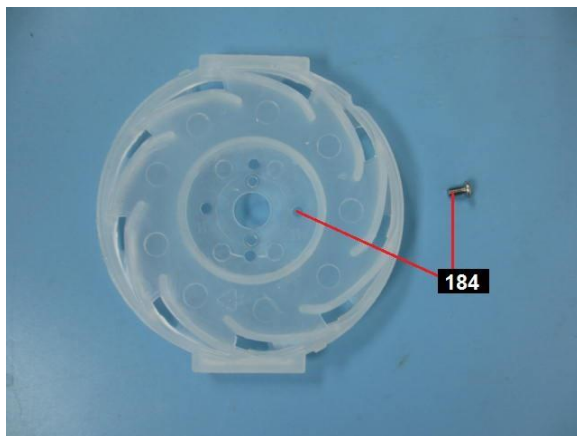
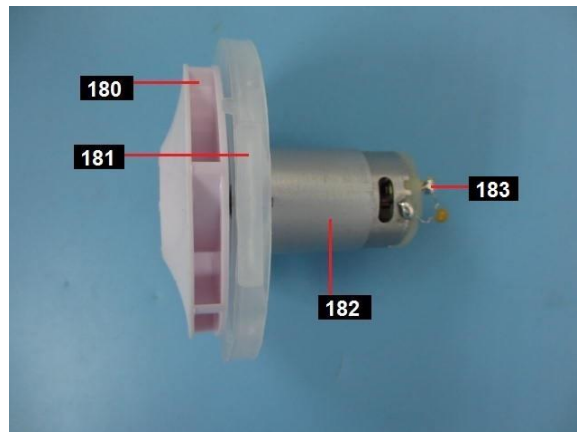
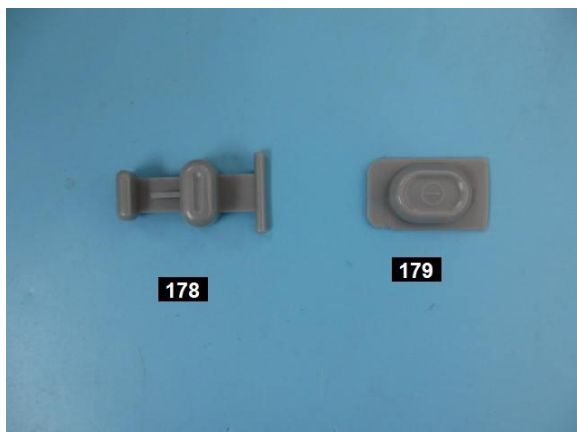
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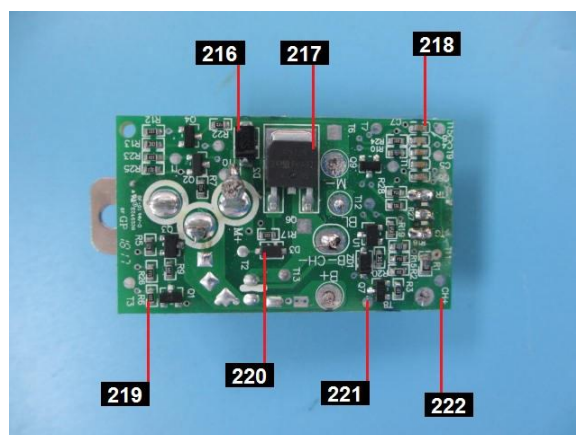
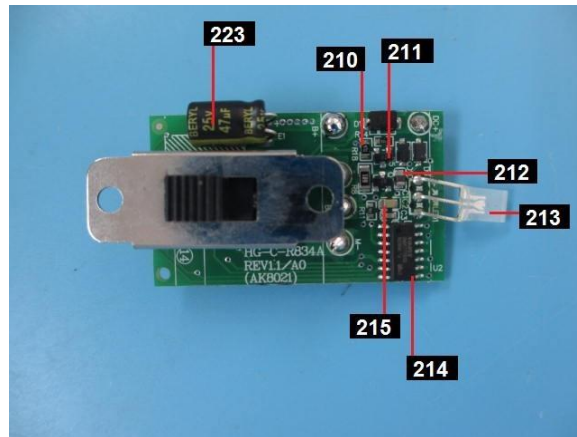
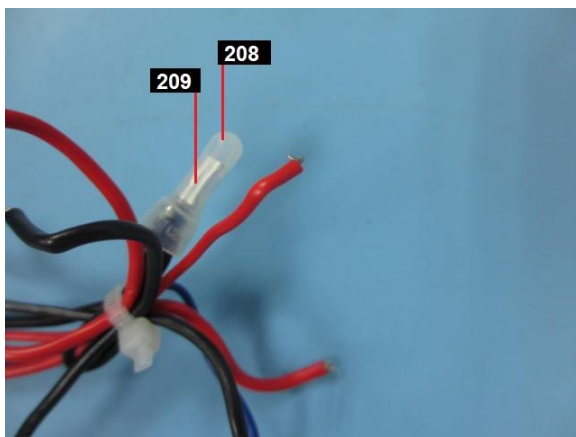
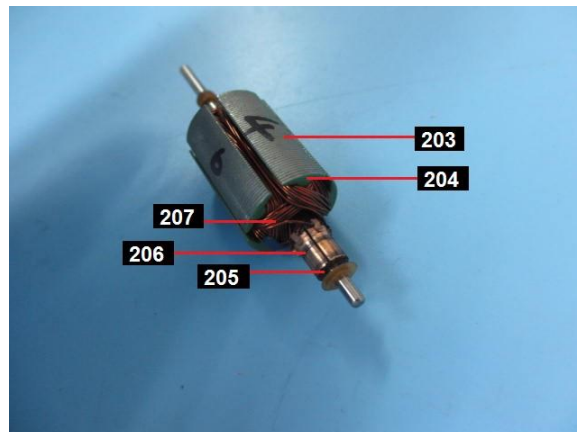
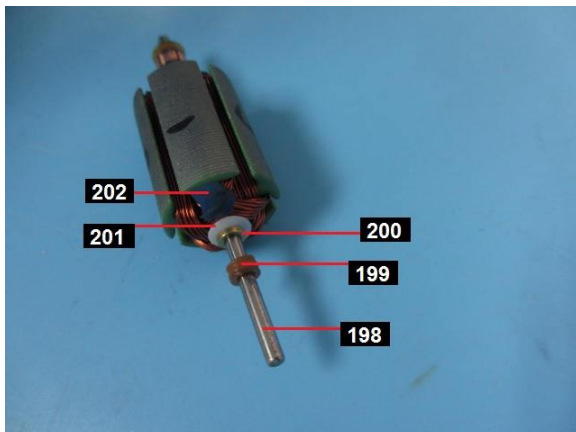
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End of report

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