

Waste Electrical and Electronic Equipment Directive (WEEE) Compliance Assessment Report



Introduction

Manufacturer:	AVISION INC.				
Address:	No. 20, Creation Rd. 1 Science Park, Hsinchu, Taiwan 300, R.O.C				
Equipment:	Scanner				
Type Designation:	AD6090				
Report Date:	2020/8/19				
Description	The product as described in this report was found to based the requirements of recast WEEE directive (2012/19/EC) Article 11-Recovery and Article 15-Information treatment facilities to disclose Recycle, Reuse and Recovery rate and its disassembly information. This report are including below contents: (1) Product information (2) Product disassembly method (3) Recycle, Reuse and Recovery rate evaluation				
Assessment Result:	<table><tr><td>Reuse and recycling Rate =</td><td>96.03%</td></tr><tr><td>Recovery Rate =</td><td>99.88%</td></tr></table>	Reuse and recycling Rate =	96.03%	Recovery Rate =	99.88%
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1. Product Information:

Dimension(W×D×H):460×310×198 mm(min)

Weight: 12kg

Accessories: Adapter, Power Cord, USB Cable

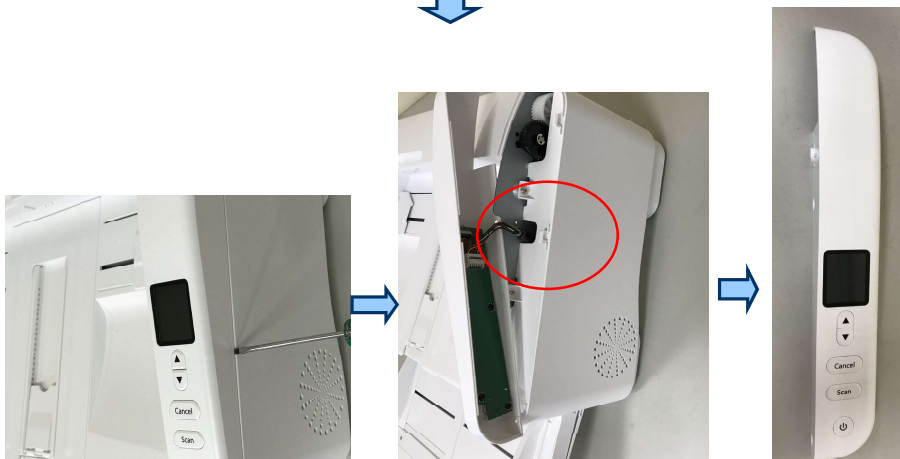
2. WEEE Category

The products falling under categories 6 of WEEE directive Annex III,

- the rate of recovery shall be increased to a minimum of 75 by an average weight per appliance, and
- component, material and substance reuse and recycling shall be increased to a minimum of 55 by an average weight per appliance;

3. Dismantling Process

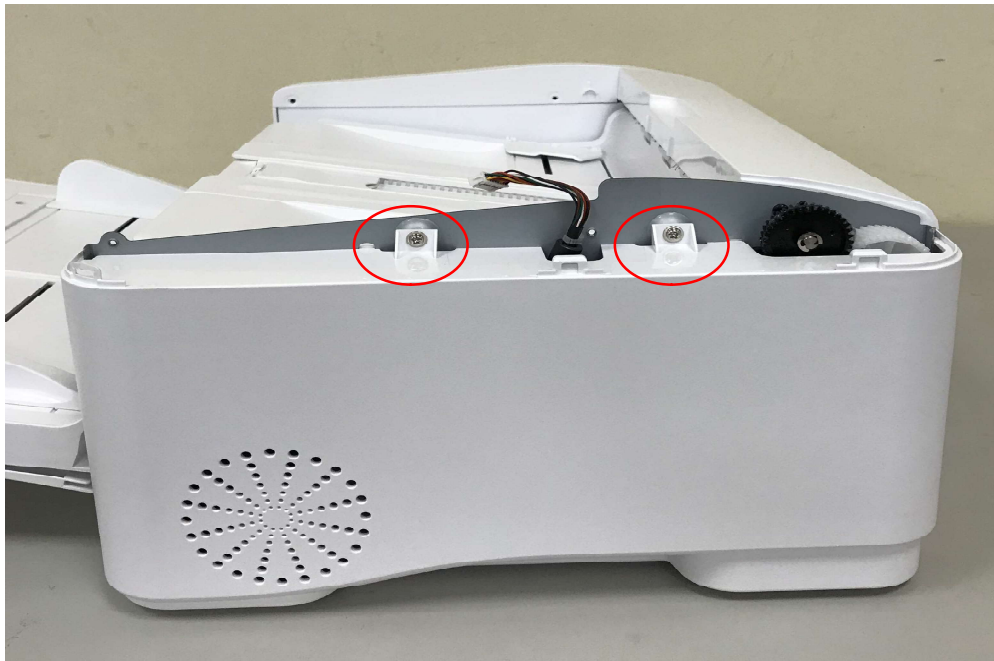
Step 1: Remove the mylar and use screwdriver to loosen the tenon, unplug the cable to take out UI Panel Cover



Step 2: Use screwdriver to loosen the tenon and unplug the cables to take out PCBA(UIA216/004-2988-9)



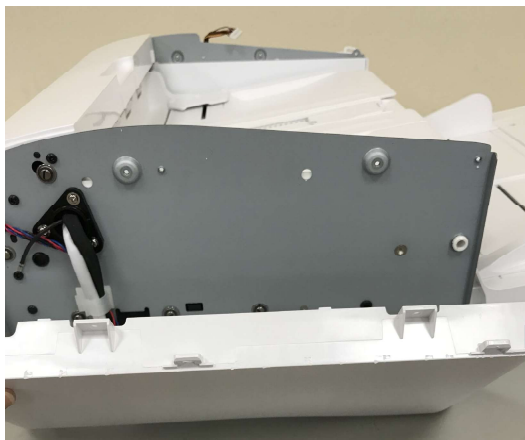
Step 3: Use screwdriver to take out Cover Right(051-9690-0)



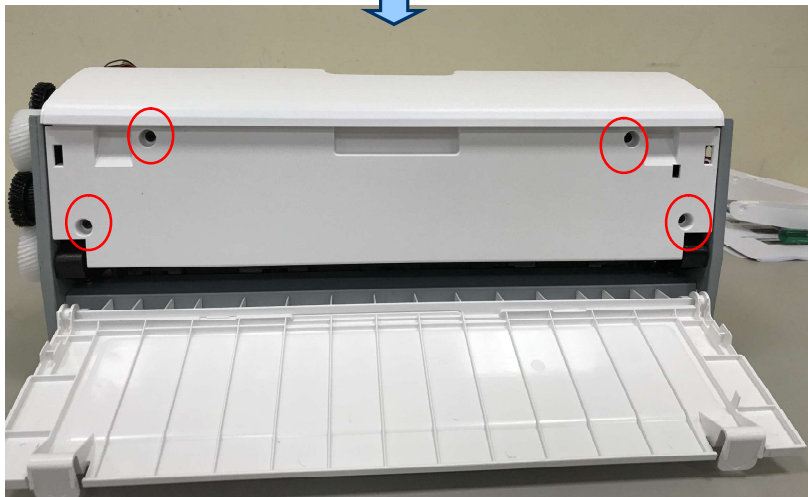
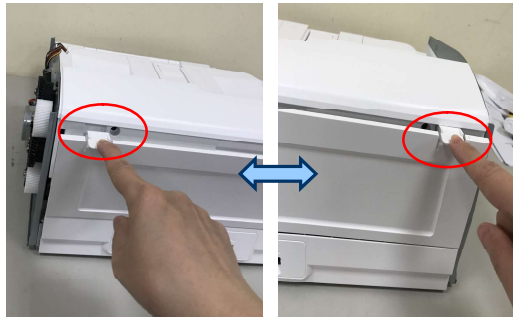
Step 4: Unloosen the tenon to remove the Top Left Cover



Step 5: Use screwdriver to take out Cover Left(051-B549-0)



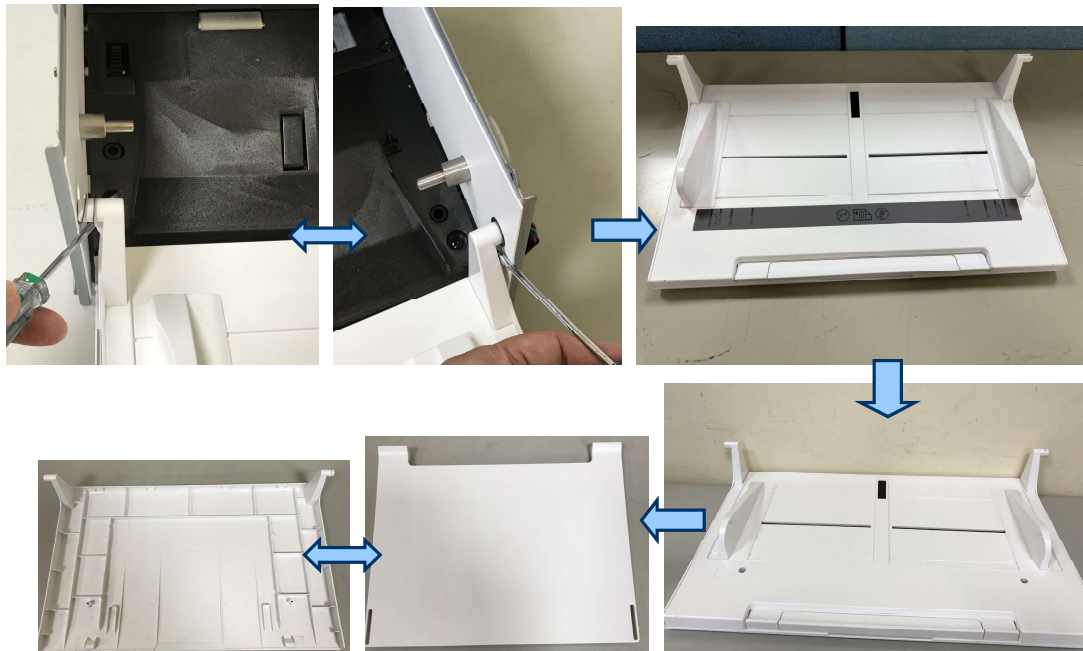
Step 6: Push the lock and open the cover , Use screwdriver to take out Top Cover(051-9722-0)



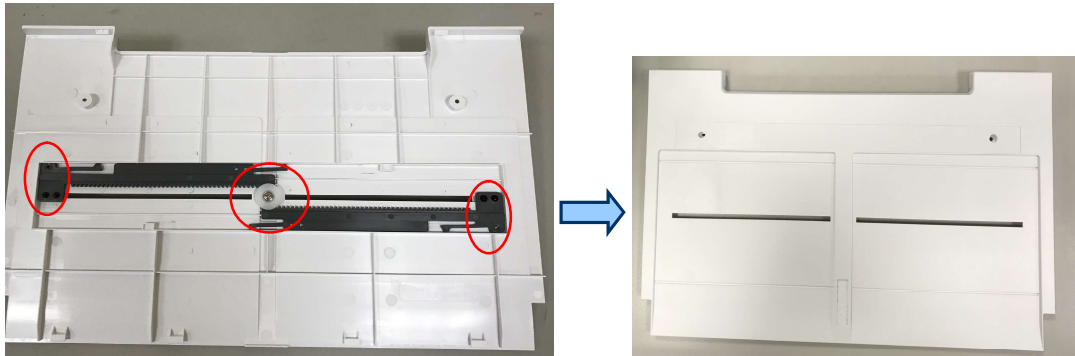
Step 7: Unplug the cable and loosen the tenon to take out Back Cover (051-9725-0)



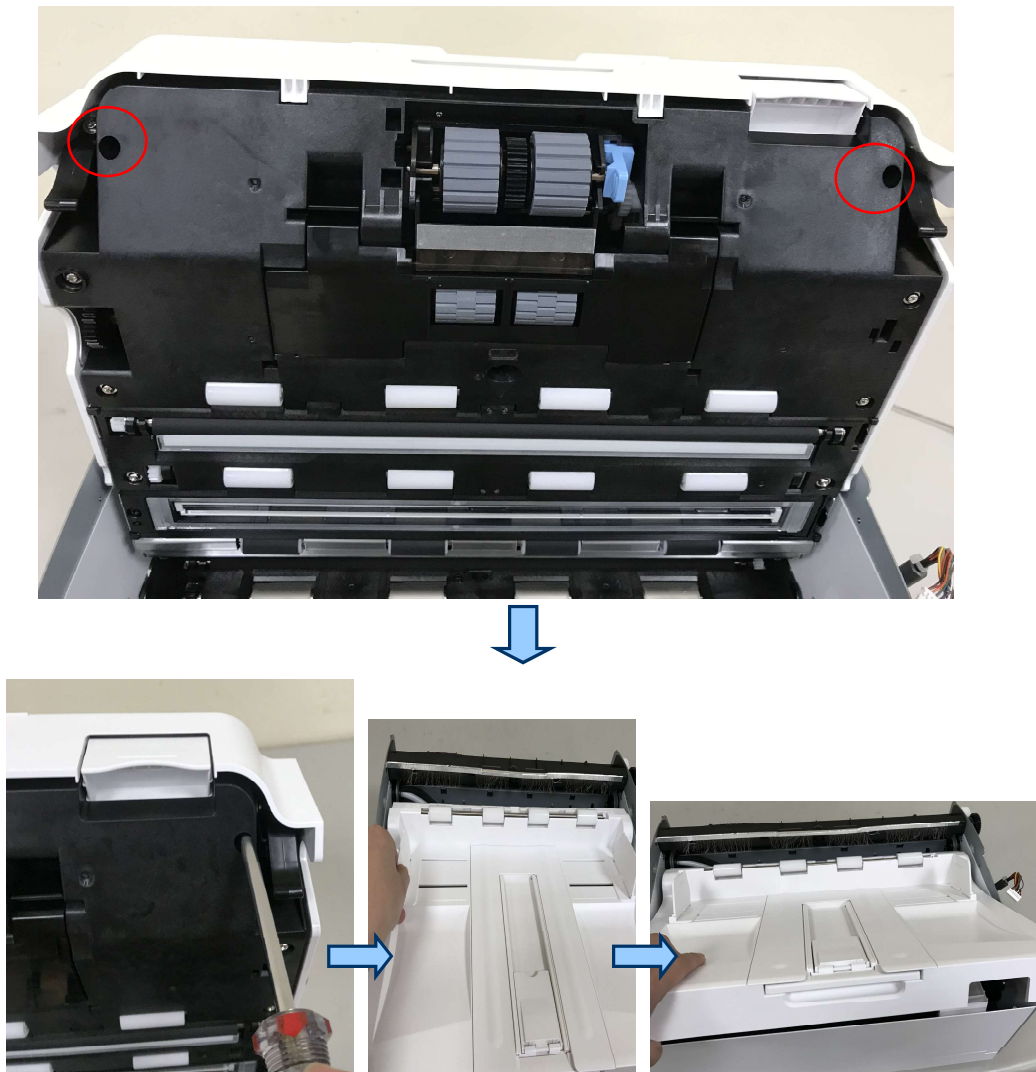
Step 8: Use screwdriver to loosen the tenon to take out Input Tray Ass'y
Use screwdriver to remove Input Tray Ass'y and take out Input Down Tray(051-9688-0),Extend Input Middle Tray(051-9262-0)



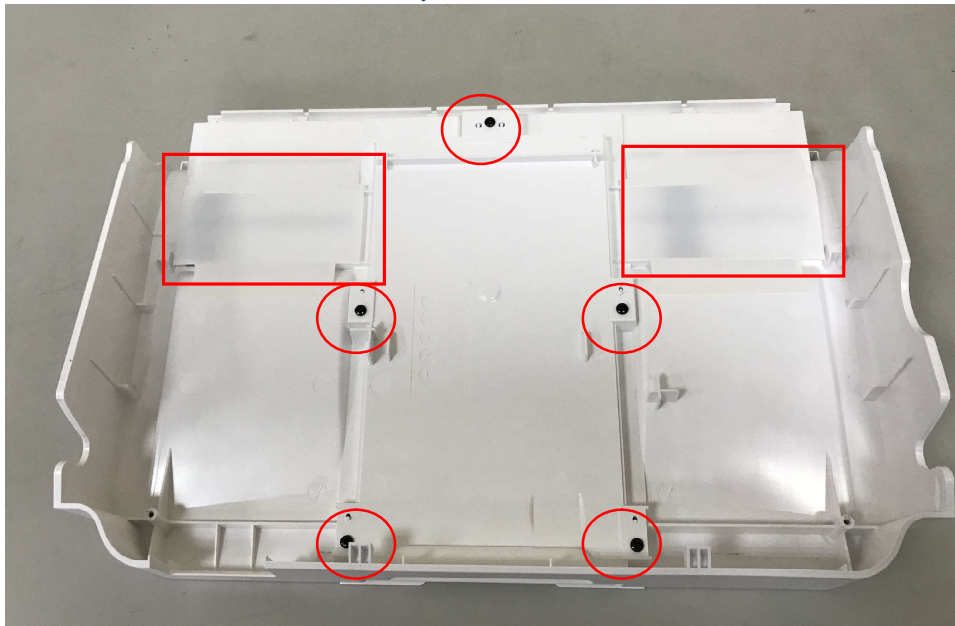
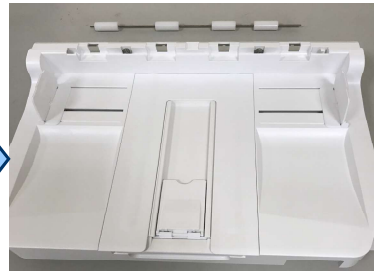
Step 9 : Use screwdriver to remove Input Up Tray (051-9687-0)

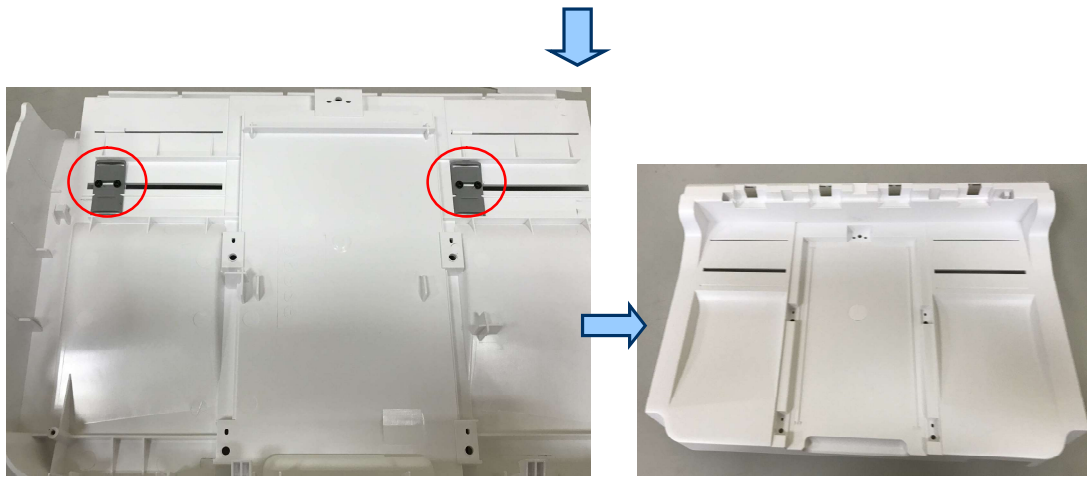


Step 10: Use screwdriver unloosen the tenon to take out Output Tray Ass'y

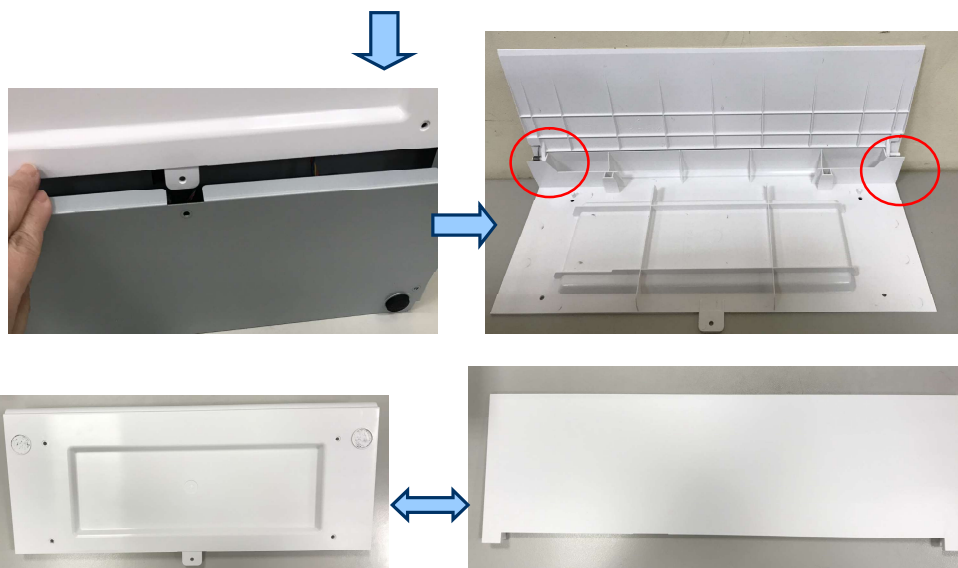
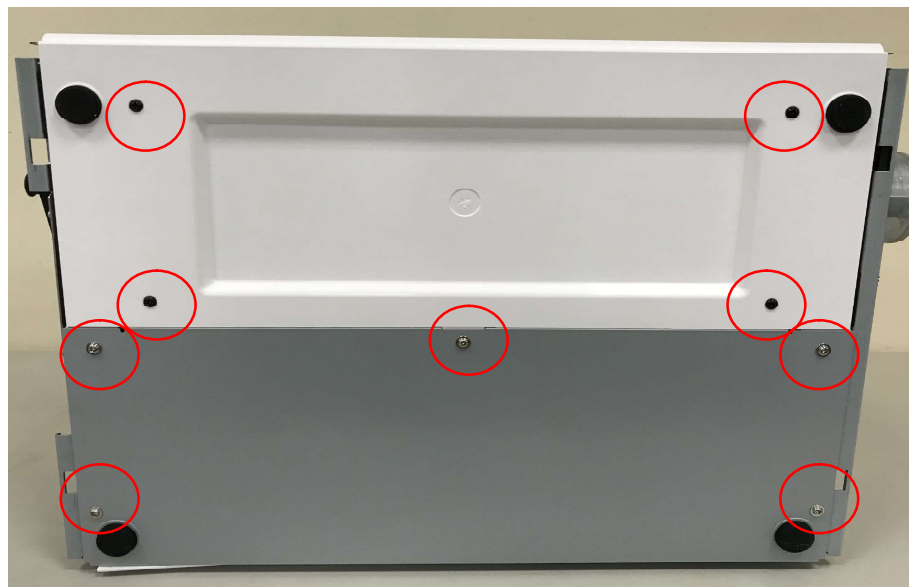


**Step 11: Use screwdriver to loosen the tenon to take out Output Tray Ass'y.
Take out Roller and Remove the Mylar, Use screwdriver to take Out Output
Main Tray(051-B550-0)**

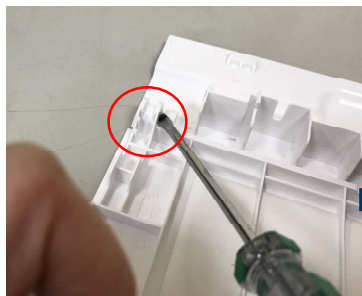




Step 12: Use screwdriver and unloosen the tenon to remove Mount, remove the spring to take out Bottom Cover(051-9691-0) and Front Cover(051-9724-0)

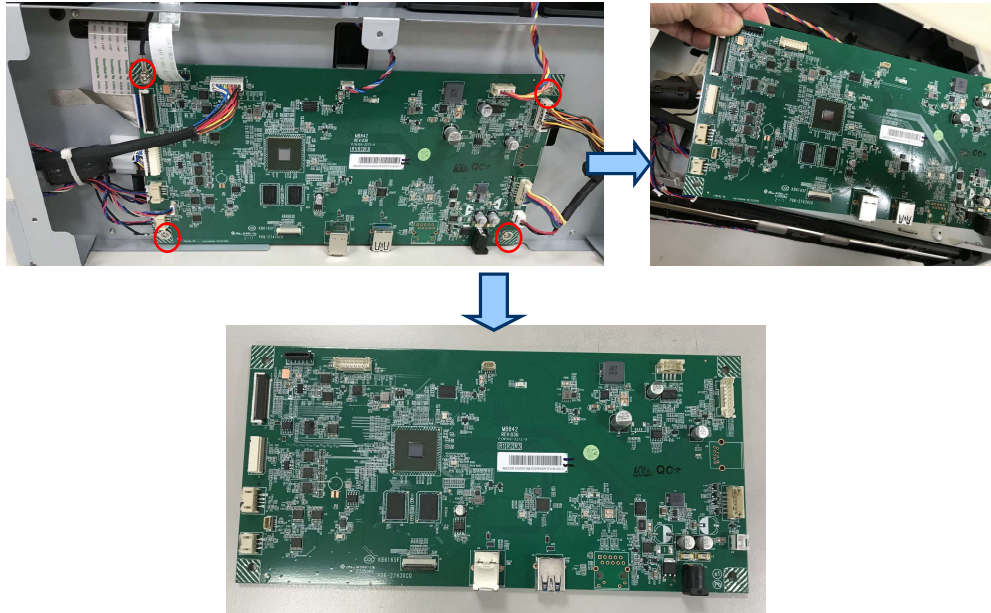


Step 13: Use screwdriver and unloosen the tenon to take out Output Back Tray(051-9726-0)

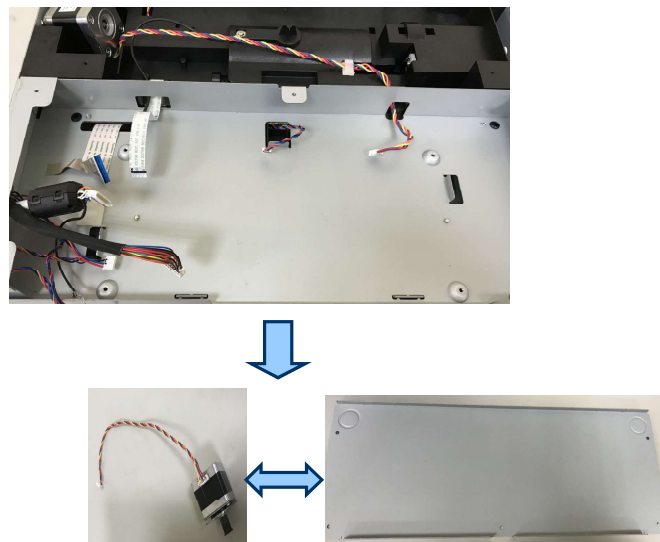


Base Ass'y

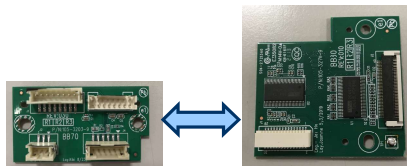
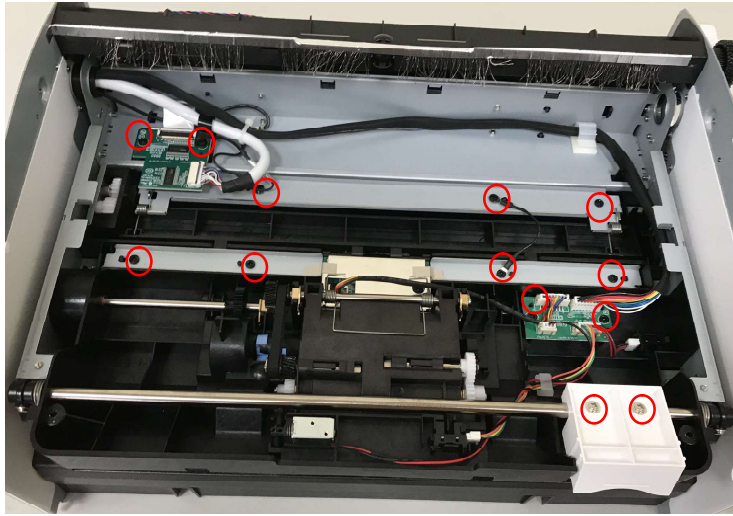
Step 1: Use screwdriver to remove PCBA (MBA909/004-3525-9)



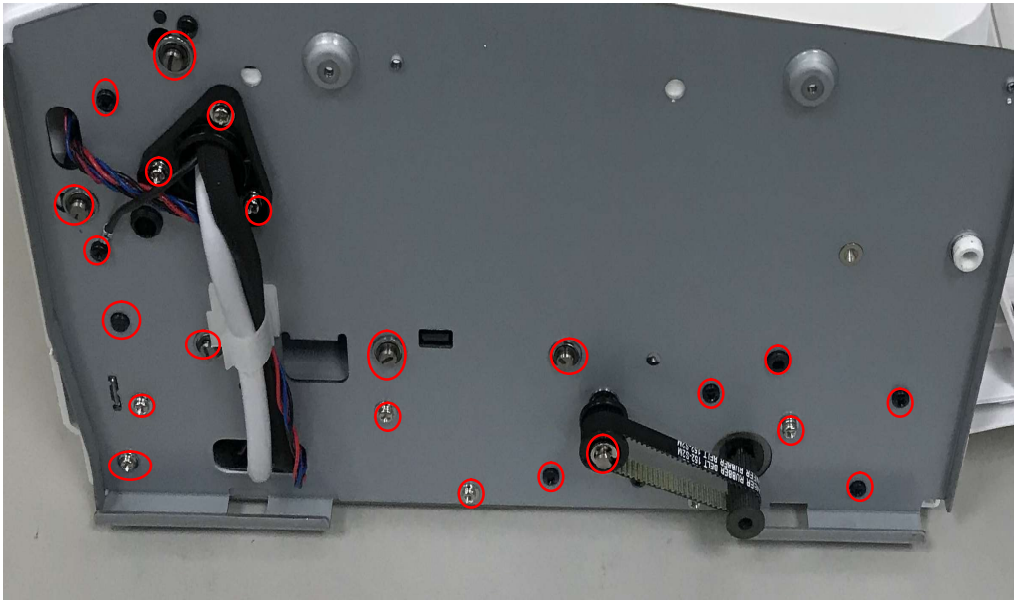
Step 2: Remove the Mount and Motor

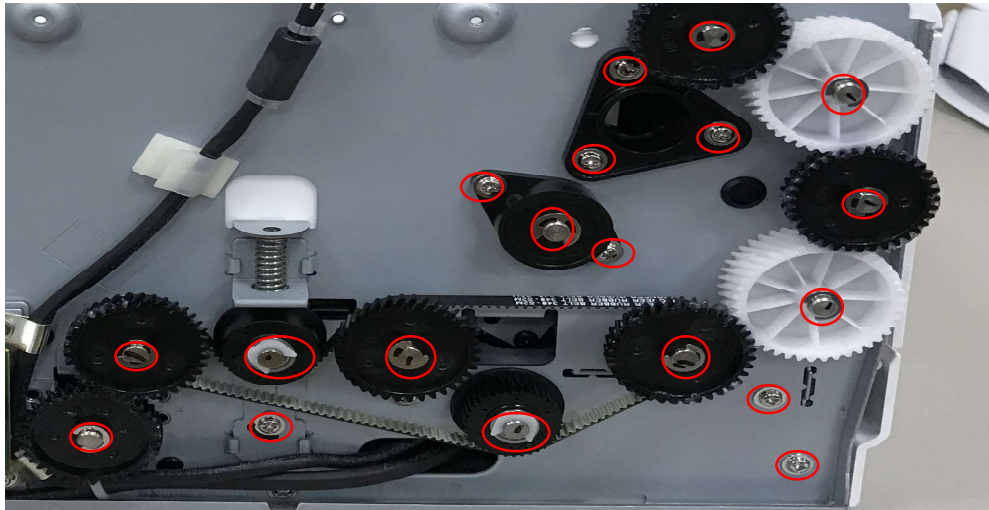


Step 3: Use screwdriver to remove PCBA (BBA70/004-3203-9) and PCBA(BBA80/004-3270-9)

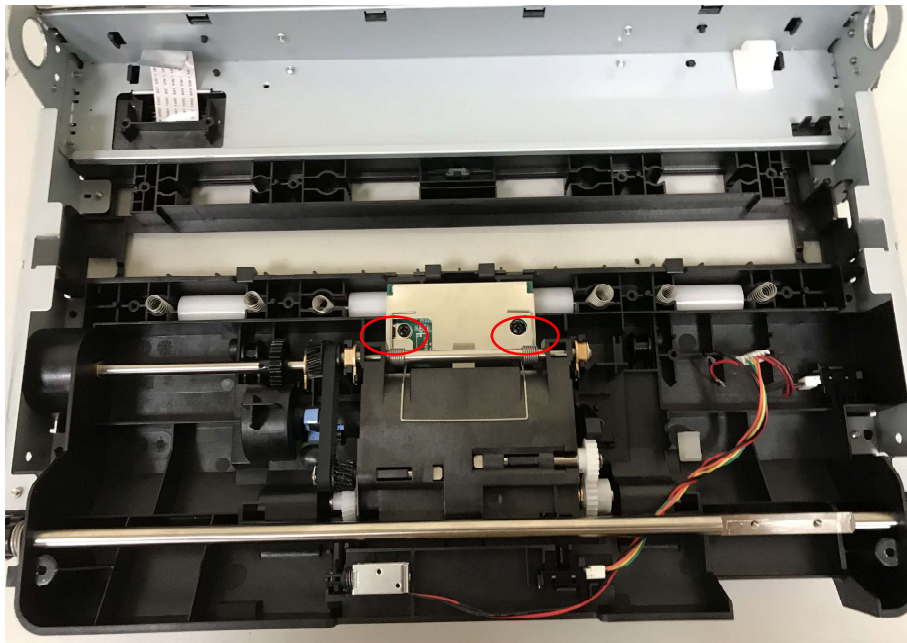


Step 4: Use screwdriver remove the spring and cut Belt to remove the Gear



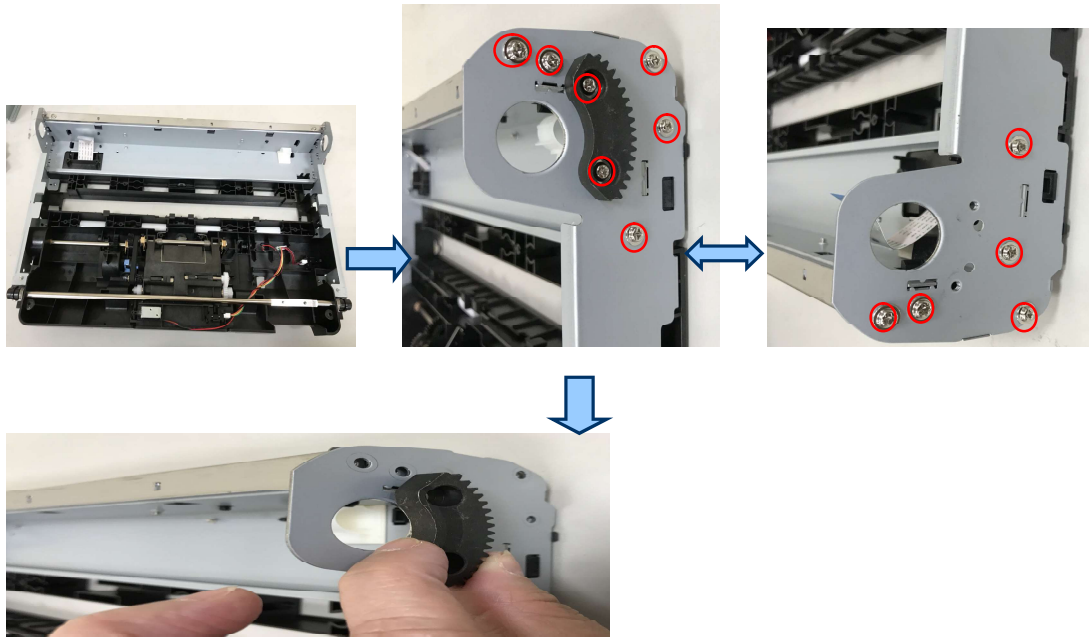


Step 5: Use screwdriver to remove PCBA(SBA277/004-3201-9)

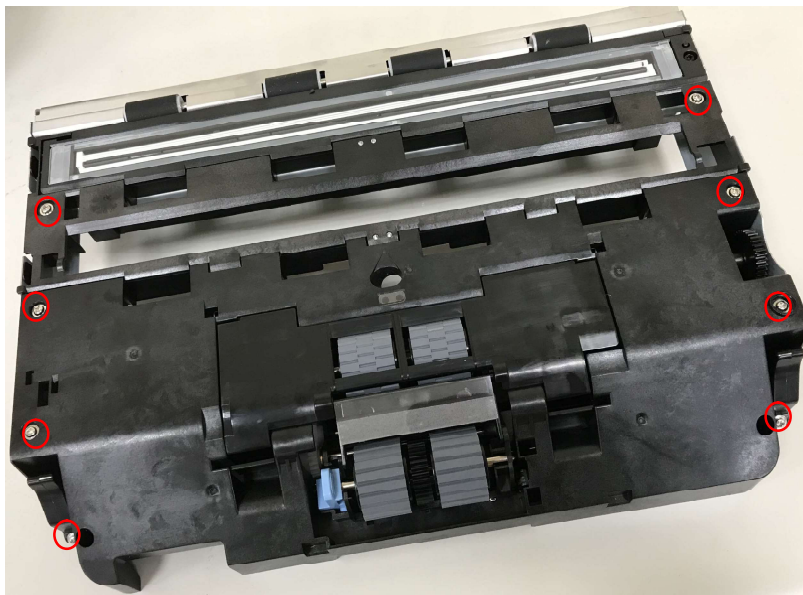


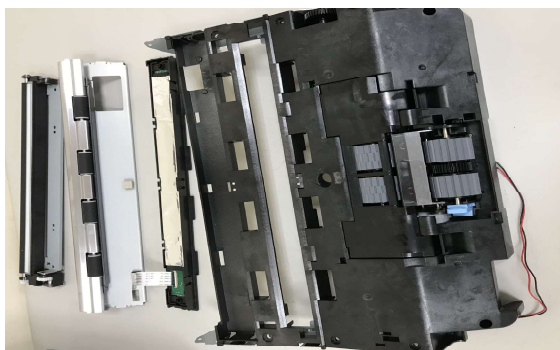


Step 6: Use screwdriver to remove Mount

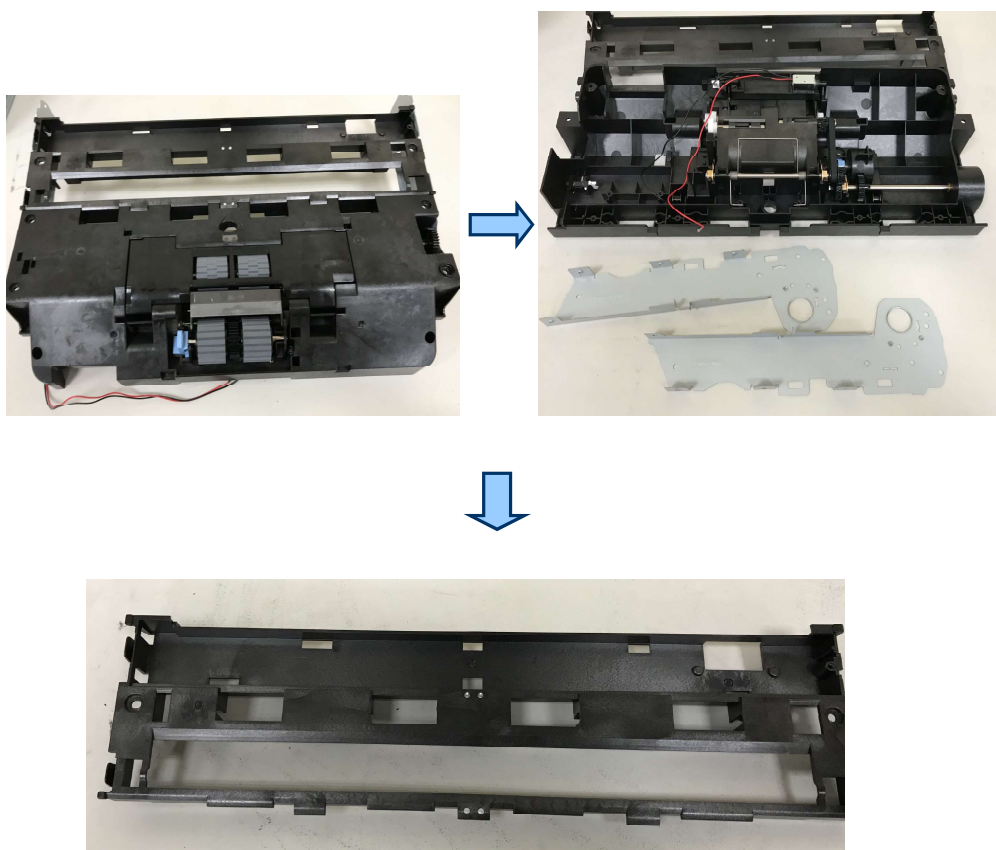


Step 7: Use screwdriver to take out the Holder

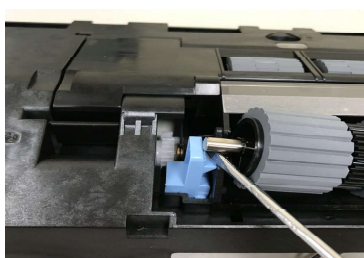




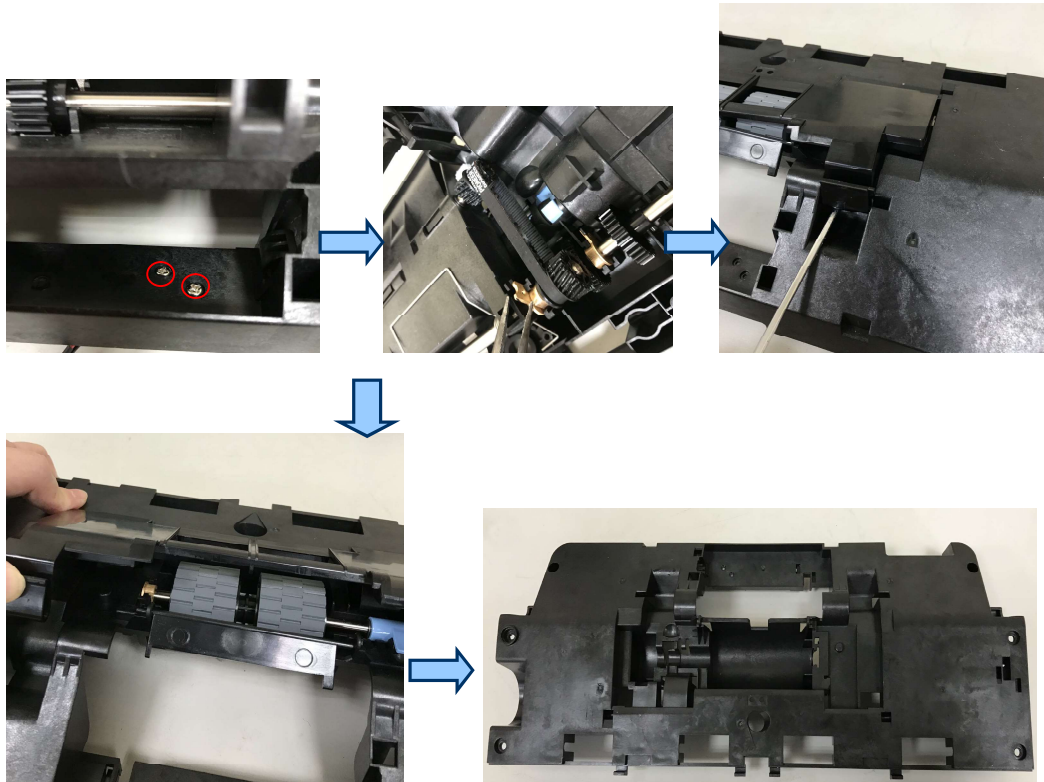
Step 8: Remove the Mount. to take out Glass Upper Holder(051-B543-0)



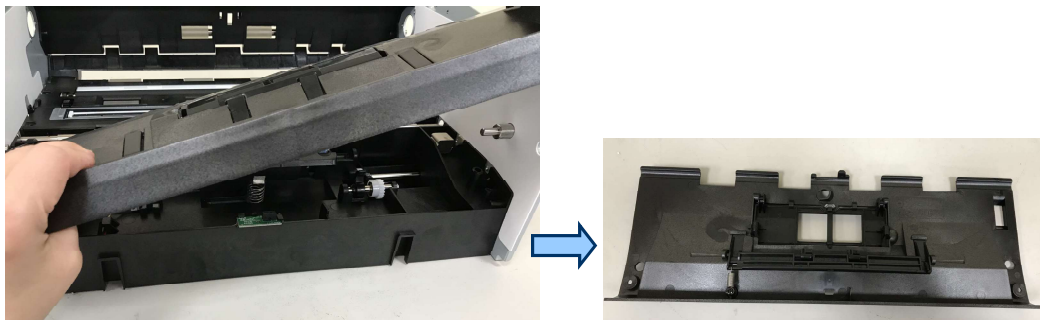
Step 9: Use screwdriver to remove Rollers



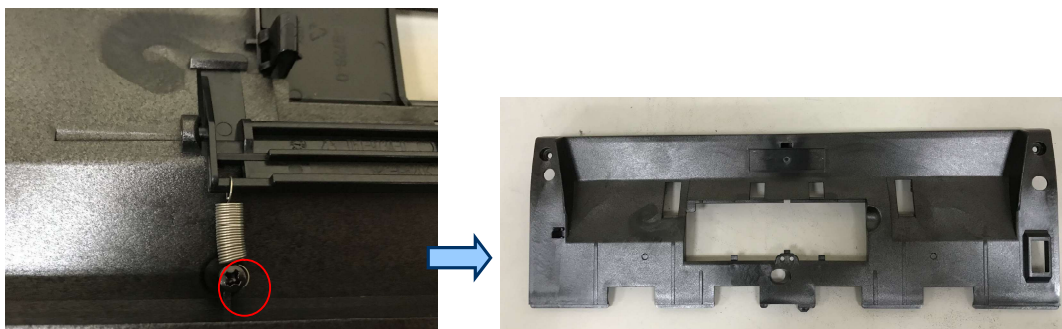
Step 10: Use screwdriver to remove Plates and Rollers to take out Upper Case(051-B545-0)



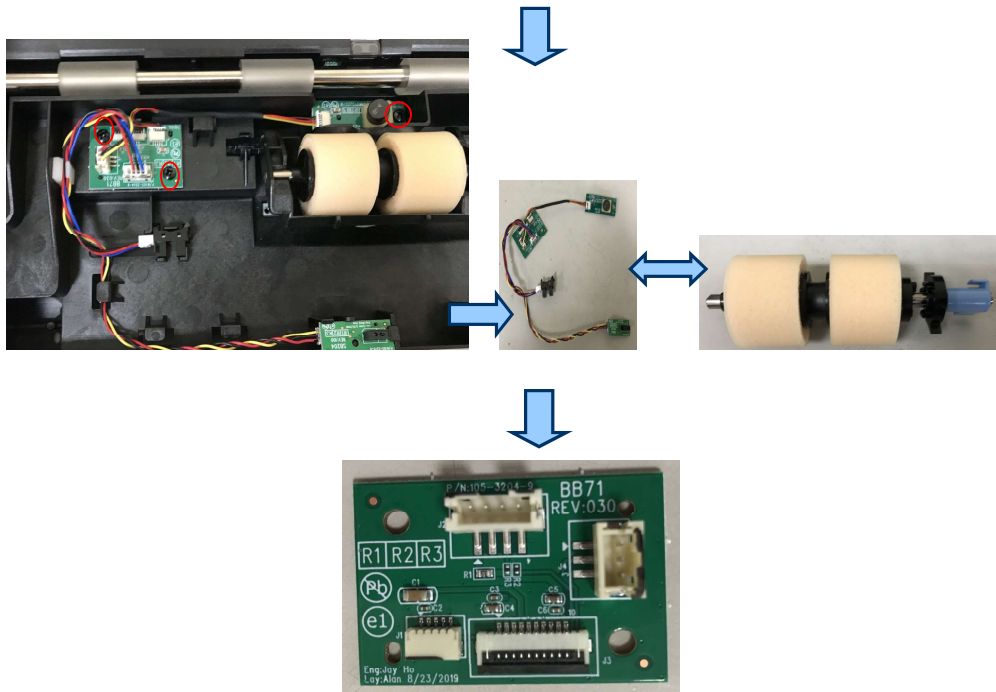
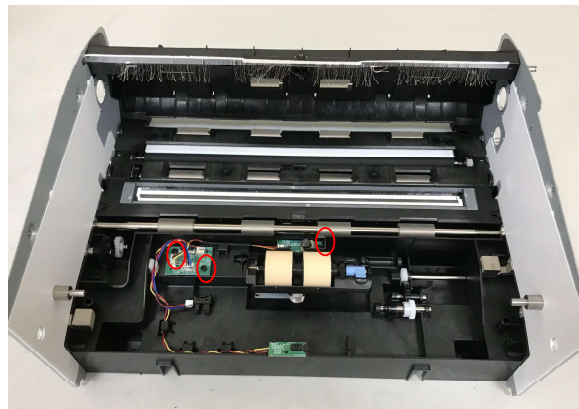
Step 11: Remove the Paper Path In Case Ass'y



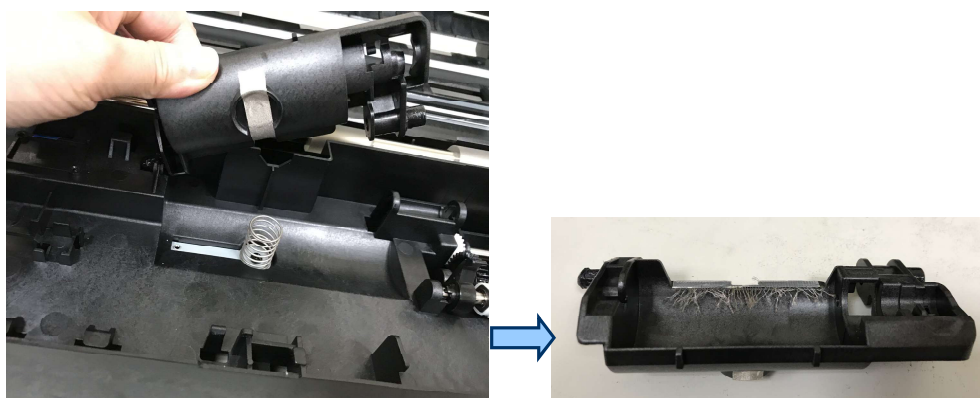
Step 12: Use screwdriver to remove Spring to take out Paper Path In Case (051-B546-0)



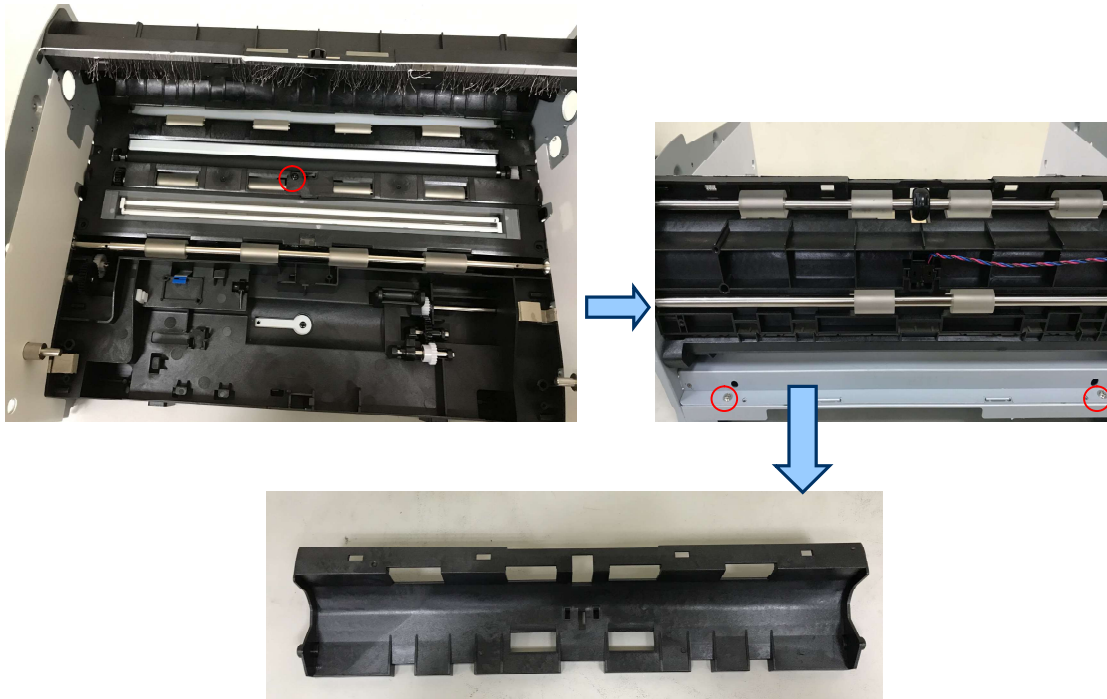
Step 13: Use screwdriver Unloosen the tenon unplug the cable to take out Rollers and PCBA(BBA71/004-3204-9)



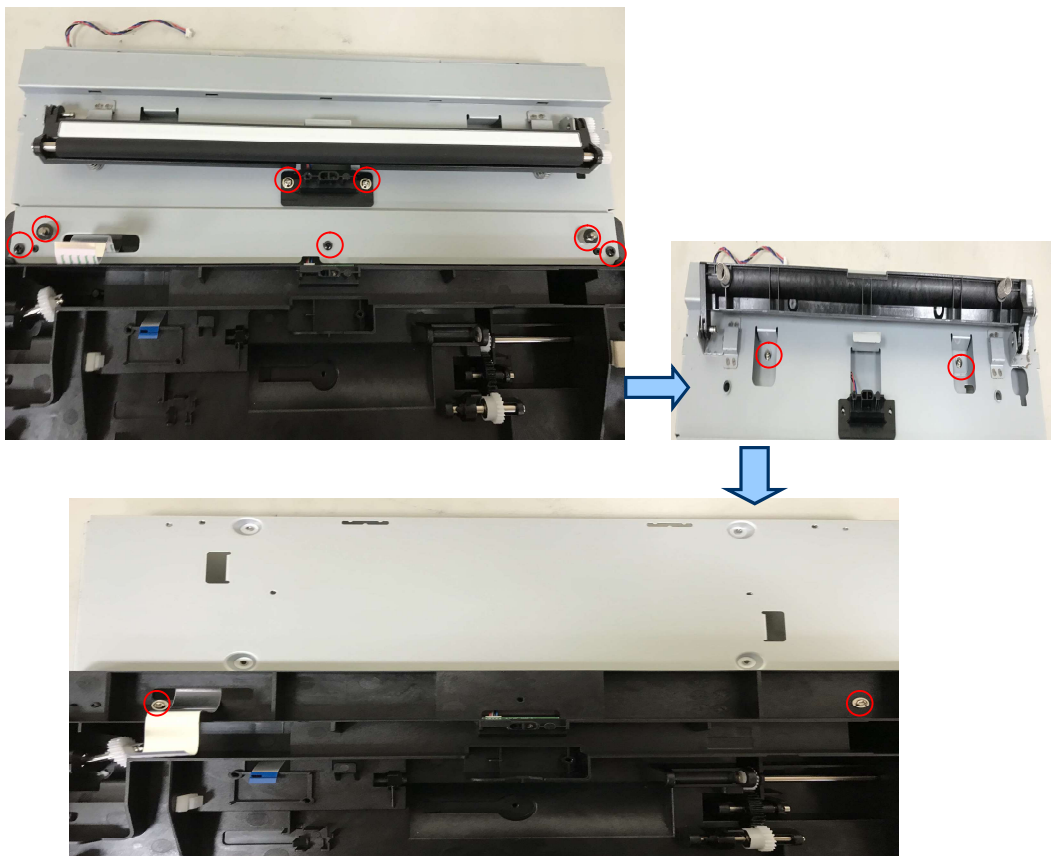
Step 14: Unloosen the tenon to remove the Case



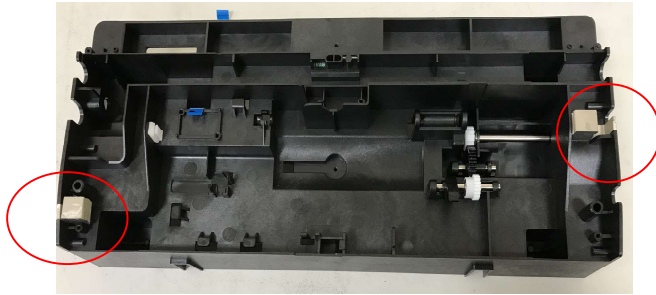
Step 15: Use screwdriver to remove Rollers to take out Upper Path Guide (051-9735-0)



Step 16: Lower Case Ass'y Use screwdriver to take out Mount.



**Step 17: Use screwdriver Unloosen the tenon to remove Gear and sponge
To take out Lower Case(051-B528-0)**



CIS Module

Step 1: Unloosen the tenon and take out Aluminum foil, Mylar.



Step 2: Unloosen the tenon to remove LED, Holder and CIS PCBA.

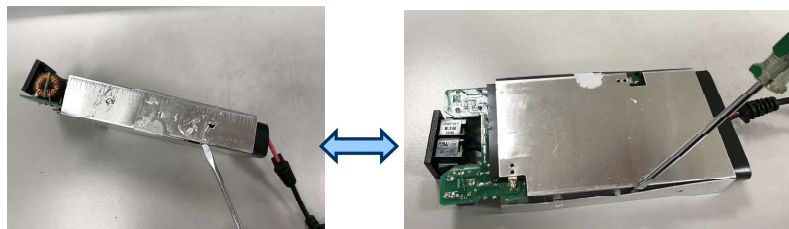


Power Adapter (external power supply)

Step 1: Use screwdriver to remove Upper Cover and Bottom Cover.



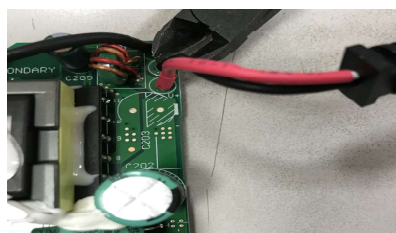
Step 2: Use screwdriver / unloosen the tenon to metal plate.



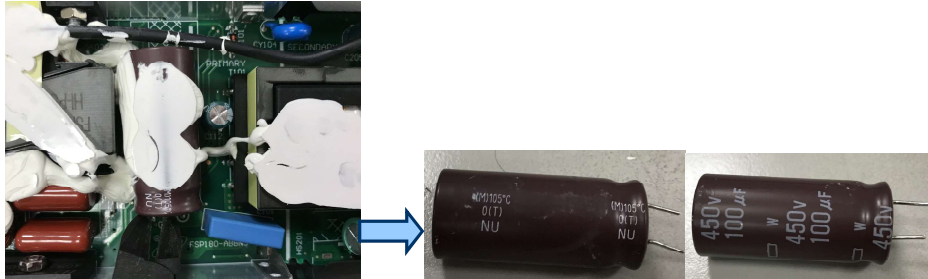
Step 3: Cut down the metal plate. to take out PCBA



Step 4: Cut down the cable.



Step 5: Cut down the Capacitor.



4. Disassembly Tool

(1) 	(2) 
Screwdriver	Screwdriver
(3) 	(4) 
Blade	Pliers

5. Part List

No.	Name	Material	Qty.	Weight (g)	Characteristic
1	BUTTON,POWER	ABS	1	0.83	Recycle
2	BUTTON,UP DOWN	ABS	2	3.40	Recycle
3	BUTTON,CANCEL	ABS	1	1.50	Recycle
4	BUTTON,SCAN	ABS	1	1.50	Recycle
5	COVER,UI PANEL	ABS	1	64.20	Recycle
6	COVER,LEFT	ABS	1	205.00	Recycle
7	COVER,RIGHT	ABS	1	232.00	Recycle
8	COVER,BOTTOM	ABS	1	232.50	Recycle
9	COVER,TOP LEFT	ABS	1	53.00	Recycle
10	COVER,TOP	ABS	1	124.00	Recycle
11	COVER,BOTTOM REAR	ABS	1	68.10	Recycle
12	COVER,FRONT	ABS	1	112.00	Recycle
13	COVER,BACK	ABS	1	123.10	Recycle
14	TRAY, OUTPUT,BACK	ABS	1	127.60	Recycle
15	TRAY, EXTEND,INPUT MIDDLE	ABS	1	107.50	Recycle
16	TRAY, EXTEND,INPUT OUT	ABS	1	53.00	Recycle
17	TRAY, INPUT,UP	ABS	1	253.00	Recycle
18	TRAY, INPUT,DOWN	ABS	1	338.00	Recycle
19	GUIDE,INPUT LEFT	ABS	1	21.80	Recycle
20	GUIDE,INPUT RIGHT	ABS	1	21.80	Recycle
21	FIXER,STOPPER,L	ABS	1	18.00	Recycle
22	FIXER,STOPPER,R	ABS	1	18.00	Recycle
23	TRAY, EXTEND,OUTPUT	ABS	1	87.00	Recycle
24	HOLDER,STOPPER	POM	1	9.20	Recycle
25	STOPPER	ABS	1	5.85	Recycle
26	TRAY, OUTPUT,MAIN	ABS	1	489.00	Recycle
27	TRAY, OUTPUT,MIDDLE	ABS	1	67.00	Recycle
28	GUIDE,HOLDER LEFT	ABS	1	2.90	Recycle
29	GUIDE,HOLDER RIGHT	ABS	1	2.90	Recycle

No.	Name	Material	Qty.	Weight (g)	Characteristic
30	GUIDE,OUTPUT L	ABS	1	6.40	Recycle
31	GUIDE,OUTPUT R	ABS	1	6.40	Recycle
32	LATCH,HOOK	ABS	1	14.10	Recycle
33	RACK	ABS	2	11.00	Recycle
34	GEAR/PULLEY	POM	5	5.10	Recycle
35	ROLLER,CORE,REVERSE	POM	1	11.50	Recycle
36	HOLDER,REVERSE ROLLER	PC+11%CF	1	26.50	Recycle
37	HOLDER,IR SENSOR	ABS	1	5.60	Recycle
38	CASE,LOWER	PC+20%GF	1	579.00	Recycle
39	STOPPER,SHAFT	PC+20%GF	1	16.90	Recycle
40	CASE,PAPER PATH IN	PC+11%CF	1	167.00	Recycle
41	COVER,REVERSE	ABS	1	13.10	Recycle
42	HOLDER,CIS ROLLER LOWER	PC+20%GF	1	50.90	Recycle
43	CASE,PAPER CASE OUT LOWER	PC+11%CF	1	61.55	Recycle
44	HOLDER,CIS GLASS LOWER	PC+11%CF	1	48.00	Recycle
45	GUIDE,PATH CHANGE	PC+20%GF	1	69.00	Recycle
46	GUIDE,UPPER PATH	PC+20%GF	1	185.00	Recycle
47	ROLLER,ROLLER, IDLE	POM	12	4.90	Recycle
48	HOLDER,CIS UPPER	PC+11%CF	1	39.45	Recycle
49	HOLDER,CIS ROLLER UPPER	PC+20%GF	1	73.80	Recycle
50	HOLDER,GLASS UPPER	PC+11%CF	1	141.50	Recycle
51	HOLDER,IDLE ROLLER	PC+GF30%	2	47.25	Recycle
52	CASE,PICKUP	PC+11%CF	1	42.00	Recycle
53	ROLLER,CORE,ADF	POM	1	12.50	Recycle
54	LOCK R,DOOR BUTTON	POM	2	0.10	Recycle
55	CASE,UPPER	PC+20%GF	1	355.00	Recycle
56	CASE,ADF	ABS	1	31.00	Recycle
57	BEARING,F676ZZ	SUS304	24	18.24	Recycle
58	BUSH	Cu	7	12.20	Recycle
59	CLAMP, CABLE	SPCC	2	2.56	Recycle

No.	Name	Material	Qty.	Weight (g)	Characteristic
60	COVER, PCBA,LOWER PCBA	SECC	1	585.75	Recycle
61	COVER, PCBA,ULTRASONIC	SPTE	1	3.75	Recycle
62	COVER,BOTTOM	SECC	1	422.75	Recycle
63	GEAR	Metal	1	4.26	Recycle
64	GEAR,HINGE	Metal	1	20.80	Recycle
65	MOUNT,CIS ROLLER GEAR	SECC	1	9.55	Recycle
66	MOUNT,IDLE OUT	SECC	1	268.95	Recycle
67	MOUNT,IDLE PULLEY	SECC	1	10.50	Recycle
68	PIN,GEAR & SHAFT	SAE1215MS	3	0.69	Recycle
69	PLATE,BASE	SECC	1	487.50	Recycle
70	PLATE,CIS ROLLER GEAR FIX	SECC	1	2.45	Recycle
71	PLATE,IDLE ROLLER	SECC	1	84.85	Recycle
72	PLATE,IDLE ROLLER	SECC	2	23.80	Recycle
73	PLATE,LOWER LEFT	SECC	1	453.60	Recycle
74	PLATE,LOWER RIGHT	SECC	1	510.00	Recycle
75	PLATE,PAPER PATH	SUS430	1	156.70	Recycle
76	PLATE,UPPER LEFT	SECC	1	77.60	Recycle
77	PLATE,UPPER RIGHT	SECC	1	77.95	Recycle
78	SHAFT,ADF	S45C	1	27.05	Recycle
79	SHAFT,DAMPER	S45C	1	4.85	Recycle
80	SHAFT,HOOK	SAE1215MS	1	137.40	Recycle
81	SHAFT,IDLE SCAN	SAE1215MS	4	89.00	Recycle
82	SHAFT,IDLE SIDE EAGE	SAE1215MS	6	48.00	Recycle
83	SHAFT,OUT	SUM23	1	44.40	Recycle
84	SHAFT,PICKUP	SAE1215MS	1	17.60	Recycle
85	SHAFT,PICKUP GEAR/PULLEY	SAE1215MS	2	21.60	Recycle
86	SHAFT,PICKUP HINGE	SAE1215MS	1	25.55	Recycle
87	SHAFT,PICKUP ONEWAY	S45C	1	24.40	Recycle
88	SHAFT,REVERSE ROLLER	SAE1215MS	1	23.80	Recycle
89	SHAFT,STOPPER	S45C	1	10.35	Recycle

No.	Name	Material	Qty.	Weight (g)	Characteristic
90	SHAFT,TRANSMISSION	SAE1215MS	1	17.00	Recycle
91	SHAFT,TRANSMISSION LEFT	SAE1215MS	1	8.90	Recycle
92	SHAFT,TRANSMISSION RIGHT	SAE1215MS	1	8.65	Recycle
93	SHAFT,TRANSMISSION STOPPER	SAE1215MS	1	6.75	Recycle
94	SHAFT,UPPER MOTION	SAE1215MS	1	26.90	Recycle
95	SHEET, METAL,CIS	ALUMINUM	2	3.30	Recycle
96	SHEET, METAL,REVERSE GROUND	SECC	1	1.65	Recycle
97	SPACER,MOTOR	SECC	1	33.60	Recycle
98	SPRING, COMPRESSION	SUS304	8	2.16	Recycle
99	SPRING, COMPRESSION	SUS304	4	4.08	Recycle
100	SPRING, COMPRESSION	SUS304	4	2.84	Recycle
101	SPRING, COMPRESSION	SUS304	1	0.68	Recycle
102	SPRING, COMPRESSION,IDLE SIDE EAGE	SUS304	4	0.64	Recycle
103	SPRING, COMPRESSION,LOWER CIS ROLLER	SUS304	2	1.20	Recycle
104	SPRING, COMPRESSION,PAPER CHANGE	SUS304	2	0.60	Recycle
105	SPRING, COMPRESSION,REVERSE	SUS304	1	2.20	Recycle
106	SPRING, COMPRESSION,SCAN BELT	SUS304	1	1.11	Recycle
107	SPRING, COMPRESSION,UPPER CASE,ADF IDLE ROLLER	SUS 304	2	1.22	Recycle
108	SPRING, TENSION,STOPPER	SUS304	1	0.48	Recycle

No.	Name	Material	Qty.	Weight (g)	Characteristic
109	SPRING, TORSION	SUS304	2	2.08	Recycle
110	SPRING, TORSION,ARM SENSOR	STELL	1	0.02	Recycle
111	SPRING, TORSION,FRONT COVER RIGHT	SUS304	1	0.90	Recycle
112	SPRING, TORSION,FRONT COVER,LEFT	SUS304	1	0.85	Recycle
113	SPRING, TORSION,HOOK L	SUS304	1	1.50	Recycle
114	SPRING, TORSION,HOOK R	SUS304	1	1.47	Recycle
115	SPRING, TORSION,PICKUP	SUS304	1	2.70	Recycle
116	BELT, CLOSE	CR	1	2.87	Energy Recovery
117	BELT, CLOSE	CR	1	0.80	Energy Recovery
118	BELT, CLOSE	CR	1	1.03	Energy Recovery
119	BELT, CLOSE,S2M	CR	1	1.05	Energy Recovery
120	PAD,INPUT TRAY	Silicon	1	0.44	Energy Recovery
121	ROLLER, FEED, OUT	PU	1	183.66	Recycle
122	ROLLER, FEED,IMAGE	PU	3	760.98	Recycle
123	ROLLER, FEED,U-SHAPE	PU	1	171.60	Recycle
124	ROLLER, IDLE,ADF	EPDM	1	11.00	Energy Recovery
125	ROLLER, IDLE,PICK	EPDM	2	22.00	Energy Recovery
126	ROLLER, IDLE,REVERSE	PU	2	7.00	Recycle
127	ROLLER,CIS	Silicon	2	324.40	Energy Recovery
128	ROLLER,IDLE,RUBBER RING	PU	6	6	Recycle
129	RUBBER STAND	Silicon	4	8.3622	Energy Recovery

No.	Name	Material	Qty.	Weight (g)	Characteristic
130	RUBBER STAND,HOUSING BOTTOM	Silicon	1	0.54	Energy Recovery
131	SPONGE,STOPPER	Sponge	2	0.4	Energy Recovery
132	Wires & Cables	-	23	354.49	Recycle
133	Motor	Metal	2	576.8	Recycle
134	E-Ring	Metal	8	3	Recycle
135	SCREW(Cross)	Metal	160	99.4	Recycle
136	PCBA	PCB Complex	1	4.74	80% Recycle + 20% Energy Recovery
137	PCBA	PCB Complex	1	5.54	80% Recycle + 20% Energy Recovery
138	PCBA	PCB Complex	1	12.6	80% Recycle + 20% Energy Recovery
139	PCBA	PCB Complex	1	12.8	80% Recycle + 20% Energy Recovery
140	PCBA	PCB Complex	1	21.9	80% Recycle + 20% Energy Recovery
141	PCBA	PCB Complex	1	159.6	80% Recycle + 20% Energy Recovery
142	Glass	Glass	4	59	95% Recycle + 5% Landfill
143	CIS Holder	Plastic	2	79	Recycle
144	CIS PCBA	PCB Complex	2	45	80% Recycle + 20% Energy Recovery
145	LED	Plastic	2	25	Recycle
146	Panel	LCD	1	5	Recycle

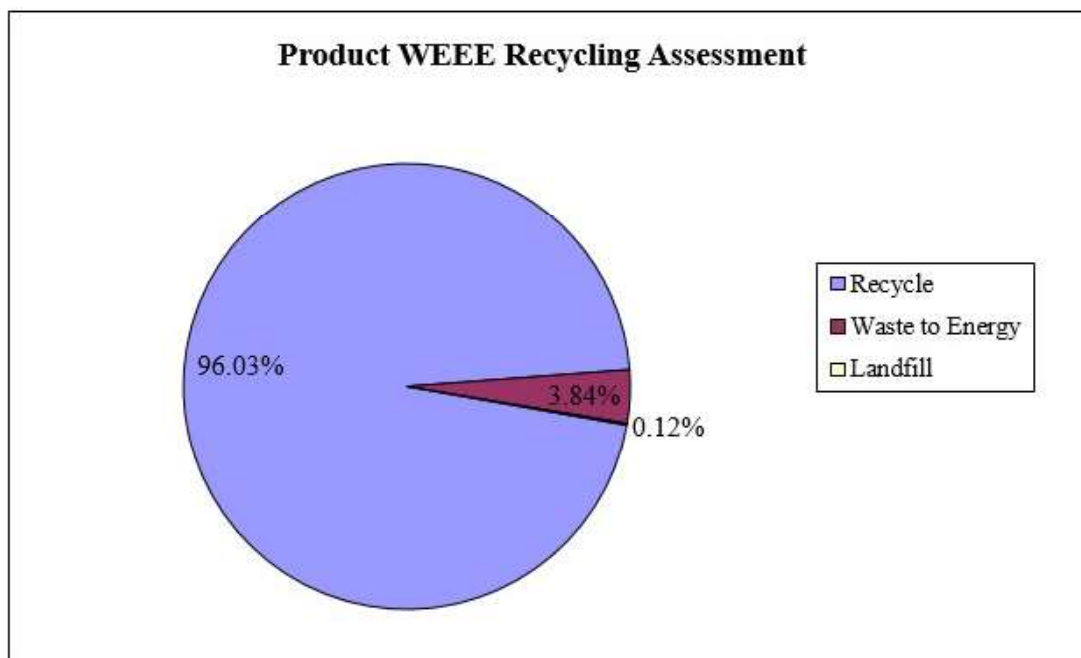
No.	Name	Material	Qty.	Weight (g)	Characteristic
147	Adapter Top Cover	PC	1	37.5	Recycle
148	Adapter Bottom Cover	PC	1	38	Recycle
149	Metal,Sheet	Metal	1	35	Recycle
150	Capacitance	-	1	12	Landfill
151	PCBA ,Adapter	PCB Complex	1	186	80% Recycle + 20% Energy Recovery
152	Cable,Adapter	-	1	55	Recycle

6. 3R Assessment

Item	Main Material	Characteristic	Weight (g)	Percent (%)
1	Metal	Recycle	4556.13	37.84%
2	Plastic	Recycle	6176.97	51.31%
3	Glass	95% Recycle	56.05	0.47%
		5% Landfill	2.95	0.02%
4	CCFL	95% Recycle	0.00	0.00%
		5% Landfill	0.00	0.00%
5	Silicon	Energy Recovery	333.74	2.77%
6	Cables	Recycle	409.49	3.40%
7	Sponge	Energy Recovery	0.40	0.00%
8	Rubber	Energy Recovery	38.75	0.32%
9	PCBA	80% Recycle	358.54	2.98%
		20% Energy Recovery	89.64	0.74%
10	Capacitance over 2.5cm	Landfill	12.00	0.10%
11	LCD	Recycle	5.00	0.04%
Total weight			12039.65 g	100.00%
Recycling Rate (Reuse + Recycle)			11562.18 g	96.03%
Energy Recovery			462.52 g	3.84%
Recovery Rate (Reuse + Recycle + Energy Recovery)			12024.70 g	99.88%

7. WEEE Compliance

Item	Weight (g)	Percentage
Recycle	11562.18	96.03%
Waste to Energy	462.52	3.84%
Landfill	14.95	0.12%



8. WEEE ANNEX VII

—As the following substances, mixtures and components have to be removed from any separately collected WEEE:

No.	Name	Qty.	Weight (g)	Annex VII Materials
1	PCBA	1	21.5	Printed circuit board is greater than 10 square centimeters
2	PCBA	1	159	Printed circuit board is greater than 10 square centimeters
3	PCBA	1	5.54	Printed circuit board is greater than 10 square centimeters
4	PCBA	1	11.5	Printed circuit board is greater than 10 square centimeters
5	PCBA	1	12.5	Printed circuit board is greater than 10 square centimeters
6	PCBA	1	4.74	Printed circuit board is greater than 10 square centimeters
7	CIS PCBA	2	45	Printed circuit board is greater than 10 square centimeters
8	PCBA,Adapter	1	186	Printed circuit board is greater than 10 square centimeters
9	Capacitance	1	12	Electrolyte capacitors with substances of concern
10	External Power Cord	3	295	External electric cables

*Materials exhibiting hazardous characteristics or those requiring special handling are those materials defined under Annex VII of the EU WEEE Directive 2012/19/EU and subsequent updates.