

# **Battery Removal Instruction**

**(Product with embedded battery ONLY)**

**V 2.12**

# Contents

## 0. Precautions

### I. TV / Monitor

1. Commercial TV
2. Signage Monitor (Normal)
3. Signage Monitor (Touch)

### II. Audio / Video

1. NP1540
2. NP 7550 / NA8550 / NP8350 / NA9350 / ART71 / ART72 / ART73
3. NP5550 / NA6550 / ART51 / ART52 / ART53
4. NP7860 / NA8860
5. FH2
6. PH2
7. PH3
8. PH4
9. PJ3 / PJ8
10. PJ9
11. FJ3
12. RK8
13. PJ2
14. SJ7
15. PK5
16. PK7
17. PK3
18. PL2
19. PL5
20. PL7
21. PN5 / PN7
22. HBS- FN6/FN4
23. HBS- SL5/SL6S
24. HBS- XL7
25. PN1
26. HBS-FN7
27. TONE-FP5
28. TONE-FP9
29. RP4 / RP4G / RP4B / RP4BE / RP4C / RP4O / RP4N / RP4A / DRP4 / DRP4G / DRP4B / DRP4BE
30. GP3 / DGP3
31. GP9 / DGP9
32. TONE-FP8/FP6
33. TONE-FP3  
TONE-FP3 / TONE-FP3W / TONE-DFP3 / TONE-DFP3W / TONE-UFP3 / TONE-UFP3W
34. TONE-NP3 / TONE-UNP3 / TONE-DNP3
35. TONE-T60Q
36. TONE-TF7Q/TF8Q
37. TONE-T90Q
38. XG9Q
39. XG7Q
40. XG5Q
41. XO3Q

### III. Projector

1. PH300
2. PV150G
3. PH550 / PH550G
4. PH150G
5. PH450UG
6. PH550G
7. PH30JG
8. PF50KS / PF50KG
9. PH30N-GL
10. PH510PG-GL

### IV. PC

1. All-In-One Chromebase
2. 14Z960\_14Z950
3. 15Z960
4. 13Z940
5. 22V240 / 22V270 / 22V280
6. 24V360
7. TSP500 / TSP510
8. MP500
9. MP700
10. 13Z970 / 14Z970 / 15Z970
11. 13Z980 / 14Z980 / 15Z980
12. 24CK550
13. 14/15/17Z90N
14. 14T990/14T90N
15. 17U70N/15U70N
16. 15Z95N/17Z95N
17. 14/16/17Z90P
18. 14/16T90P, 14/16T90Q
19. 15U70P
20. 17U70P / 17U70Q
21. 13U70P / 13U70Q
22. 14/15/16/17Z90P, 14/15ZT90P, 14/15/16/17Z95P, 14/15/16/17Z90Q
23. 14/16U70Q

### V. Printer

1. PD239
2. PD251 / PD261
3. PD269
4. PC389



# Contents

## VI. Mobile

1. LGD820 / 821
2. LGD955
3. LGV400
4. LGV480
5. LGV490
6. LGV500
7. LGV700
8. LGW100
9. LGW105E
10. LGW110
11. LGD802
12. LGH955
13. LGW150
14. LGV735
15. H791, H791F
16. H650E
17. K500N
18. W200E
19. K580
20. K220
21. W281
22. H870
23. M320N
24. W270
25. H970
26. M700n / M700A
27. G011C
28. H930
29. LM-G710EM
30. LMG910EMW
31. LMV500EM
32. LGH930
33. LMG850EMW
34. LMX320EMW
35. LMX120EMW
36. LMX520EMW
37. LMG900EM
38. LMX525EAW
39. LMX430EMW
40. LMV405EBW
41. LMW315
42. LMX510EW
43. LMK410EMW
44. LMK510EMW
45. LMQ630EAW
46. LMK420EMW
47. LMK520EMW
48. LMV600EA
49. LMG810EAW
50. LMF100EMW
51. LMX210EM
52. LMX210EMW
53. LMX410EO
54. LMX410EOW
55. LMQ610EA
56. LMQ610EM
57. LMQ610EMW

58. LMQ617EM
59. LGH870
60. LMQ850EM
61. LMQ850EMW

## VII. Vacuum Cleaner

1. VK7407
2. VK8407, VK9407
3. VH922\*\*DSW

## VIII. ETC.

1. BP302
2. BP405
3. BP410
4. HBS-500
5. HBS-600
6. HBS-730
7. HBS-750
8. HBS-760
9. HBS-800
10. HBS-900
11. HBM-290
12. Transparent Cooler
13. ESS PCS
14. HBS-1100
15. HBS-S80
16. HBS-820S
17. HBS-A100
18. HBS-A80
19. HBS-910
20. HBS-770
21. HBS-810
22. HBS850
23. HBS-W120
24. HBS-920
25. HBS-780
26. HBS-510
27. 14HK701G
28. HBS-1120 / HBS-930
29. ESS SEB (REA200AP0)
30. ESS (BUEL011HBC1/BUEL015HBC1)
31. ESS (D008KE1N211/D010KE1N211)

# 0. Precautions

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## Removal of waste batteries and accumulators **(Product with embedded battery ONLY)**

LG Electronics provides qualified professionals with detailed instructions on how to safely remove any batteries that are embedded in your product (as required by European Union Directive 2013/56/EU).

In case the product contains a battery incorporated within the product which cannot be readily removed by end-users, LG recommends that only qualified professionals remove the battery, either for replacement or for recycling at the end of this product's working life.

To prevent damage to the product, and for their own safety, users should not attempt to remove the battery and should contact LG Service Helpline, or other independent service providers for advice.

Removal of the battery will involve dismantling of the product case, disconnection of the electrical cables/contacts, and careful extraction of the battery cell using specialized tools.

# 0. Precautions

## **Bularian**

### **Изхвърляне на отпадъци съдържащи батерии и акумулатори (САМО за продукти с вградена батерия)**

В случай, че този продукт съдържа батерия включена в него, която не може лесно да бъде отстранена от крайните потребители, LG препоръчва само квалифицирани специалисти да изваждат батерията и да я заменят, и продуктът да се даде за рециклиране в края на работния си живот. За да предотвратят повреда на продукта, както и за собствената си безопасност, потребителите не трябва да се опитват да изваждат батерията и трябва да се свържат с LG Service „Гореща линия“, или други независими доставчици на услуги за съвет. Изваждането на батерията включва демонтаж на кутията на продукта, разединяване на електрическите кабели/контакти, внимателни извличане на клетката на батерията, като се използват специализирани инструменти. Ако имате нужда от инструкциите за квалифицирани специалисти относно това, как да извадите батерията безопасно, моля посетете: <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Croatian**

### **Uklanjanje potrošenih baterija/akumulatora (SAMO uređaji s ugrađenim baterijama/akumulatorima)**

U slučaju kada uređaj sadrži ugrađenu bateriju/akumulator unutar proizvoda koju ne može izvaditi krajni korisnik, LG preporučuje neka bateriju/akumulator izvadi samo kvalificirano osoblje, bilo radi zamjene ili recikliranja na kraju vijeka trajanja proizvoda. Radi sprječavanja oštećenja proizvoda i radi vlastite sigurnosti, korisnici ne smiju pokušavati izvaditi bateriju/akumulator i trebaju kontaktirati telefonsku liniju za pomoć LG servisa ili druge nezavisne pružatelje servisa i zatražiti savjet.

Uklanjanje baterije/akumulatora uključuje rastavljanje kućišta proizvoda, odspajanje električnih kabela/priključaka i pažljivo vađenje ćelije baterije pomoću posebnog alata. Ako trebate upute kvalificiranih profesionalaca kako izvaditi bateriju na siguran način, molimo posjetite <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Czech**

### **Vyjmutí starých baterií a akumulátorů (POUZE pro výrobek s integrovanou baterií)**

V případě, že tento výrobek obsahuje v produktu integrovanou baterii, kterou koncový uživatel nemůže snadno odstranit, je doporučeno společností LG, aby buď při výměně, nebo za účelem recyklace na konci životnosti tohoto produktu, bylo vyjmutí baterie ponecháno pouze kvalifikovaným odborníkům. Aby nedošlo k poškození výrobku, nebo kvůli vlastní bezpečnosti by se uživatelé neměli pokoušet vyjmout baterii, ale naopak se obrátit o radu na servisní linku LG, nebo na jiné nezávislé poskytovatele služeb.

Vyjmutí baterie bude zahrnovat rozebrání krytu produktu, odpojení elektrických kabelů/kontaktů a pečlivé vyjmutí baterie pomocí specializovaných nástrojů. Potřebujete-li pokyny pro kvalifikované odborníky o tom, jak bezpečně vyjmout baterii, navštivte prosím webové stránky <http://www.lge.com/global/sustainability/environment/take-back-recycling>

# 0. Precautions

## Danish

### Fjernelse af opbrugte batterier og akkumulatører (KUN produkter med integreret batteri)

Hvis produktet har et indbygget batteri, som ikke nemt kan fjernes af slutbrugere, anbefaler LG, at batteriet kun bliver fjernet af kvalificerede teknikere, både hvis det er til udskiftning eller genbrug i slutning af produktets levetid. Med henblik på at forhindre skade på produktet og af hensyn til brugernes sikkerhed må sidstnævnte ikke selv forsøge at fjerne batteriet, og de bør kontakte LG Service Helpline eller en anden uafhængig serviceleverandør angående råd herom.

Fjernelse af batteriet involverer demontering af produkthuset, afbrydelse af de elektriske kabler/kontakter og forsigtig udtagning af battericellen ved hjælp af specialværktøjer. Hvis du har brug for vejledningen for kvalificerede teknikere om, hvordan batteriet sikkert skal fjernes, kan du besøge <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## Estonian

### Kasutatud patareide ja akude eemaldamine (AINULT kaetud akudega toote korral)

Juhul, kui tootel on toote sisemuses asuv aku, mida lõppkasutaja ei saa lihtsalt eemaldada, soovib LG aku eemaldamiseks, nii vahetamise kui toote kasutusea lõppedes hävitamiseks, kasutada ainult kvalifitseeritud personali abi. Selleks, et vältida toote kahjustusi ning tagada enda ohutus, ei tohi kasutaja akut ise eemaldada ning abi saamiseks tuleb ühendust võtta LG teenuste kasutajatoega või mistahes muu edasimüüjaga

Aku eemaldamisel tuleb eemaldada toote korpus, katkestada elektrijuhtmete/-kontaktide ühendus ning vastava tööriistaga eemaldada ettevaatlikult akuelement. Kui vajate aku ohutuks eemaldamiseks professionaalset abiinfot, külastage veebilehte <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## Finnish

### Käytettyjen paristojen/akkujen poisto (Tuote VAIN kiinteällä akulla)

Tässä tapauksessa tuote pitää sisällään akun joka on liitetty kiinteästi tuotteeseen ja jota ei voida välittömästi poistaa loppukäyttäjien toimesta, LG suosittelee että vain pätevitetyt ammattilaiset poistavat akun, joko vaihtoa varten tai kierrätettäväksi tämän tuotteen käyttöiän päätyttyä.

Estääkseen tuotteelle tapahtuvaa vahinkoa ja taatakseen oman turvallisuutensa, käyttäjien ei pidä yrittää irrottaa akkua vaan ottaa yhteyttä LG-palvelulinjaan tai muuhun itsenäiseen palvelutoimittajaan saadakseen ohjeistusta.

Akun irrotus käsittää tuotteen kuoren purkamisen, sähköjohtojen/-liitäntöjen irrotuksen, ja akkukennon irrotuksen erikoistyökaluilla. Jos tarvitset ohjeita pätevitettyjä ammattilaisia varten koskien akun turvallista irrotusta, vieraile osoitteessa

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

# 0. Precautions

## French

### Retrait de batteries et d'accumulateurs à mettre au rebut (produit avec batterie intégrée UNIQUEMENT)

Dans le cas où ce produit contiendrait une batterie intégrée impossible à retirer facilement par les utilisateurs finaux, LG recommande de confier exclusivement à des professionnels qualifiés le soin de retirer la batterie, que ce soit pour la remplacer ou pour la recycler lorsque le produit est arrivée en fin de vie. Pour éviter d'endommager le produit et pour leur propre sécurité, les utilisateurs ne doivent pas tenter de retirer la batterie et ils doivent demander conseil à l'aide en ligne de LG Service ou à d'autres prestataires de services indépendants.

Le retrait de la batterie implique de démonter le boîtier du produit, de débrancher les câbles/contacts électriques et d'extraire avec précaution la cellule de la batterie en s'aidant d'outils spécialisés. En allant sur <http://www.lge.com/global/sustainability/environment/take-back-recycling>, vous trouverez des instructions destinées aux professionnels qualifiés sur les procédures à employer pour retirer la batterie en toute sécurité.

## German

### Entfernen von Abfallbatterien und -Akkus (Nur für Produkte mit integrierter Batterie)

Falls dieses Produkt eine im Produkt eingearbeitete Batterie/Akku enthält, die nicht ohne weiteres durch den Endbenutzer entfernt werden kann, empfiehlt LG, dass nur qualifizierte Fachkräfte Batterie oder Akku entfernen, die/der entweder wegen einer Ersatzlieferung oder für ein Recycling am Ende der Lebensdauer dieses Produkts ausgetauscht werden muss. Um Schäden am Produkt zu vermeiden, und für ihre eigene Sicherheit, sollten Benutzer nicht versuchen, Batterie oder Akku zu entfernen und diesbezüglich die LG-Beratungsstelle oder einen anderen unabhängigen Dienstleister zwecks Beratung kontaktieren.

Das Entfernen von Batterie oder Akku erfordert ein Zerlegen des Produkts, die Trennung der elektrischen Leitungen/Kontakte und eine sorgfältige Entnahme der Batterie-/Akkuzelle mit Spezialwerkzeugen. Wenn Sie die Anweisungen für qualifizierte Fachkräfte benötigen, wie man Batterie/Akku sicher entfernen kann, besuchen Sie bitte <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## Greek

### Αφαίρεση χρησιμοποιημένων μπαταριών και συσσωρευτών (ΜΟΝΟ για το προϊόν με την ενσωματωμένη μπαταρία)

Στην περίπτωση που το προϊόν διαθέτει ενσωματωμένη μπαταρία που δε μπορεί να αφαιρεθεί από το χρήστη, η LG σας προτείνει να απευθυνθείτε σε επαγγελματία για την αφαίρεση της μπαταρίας, εάν πρόκειται να την αντικαταστήσετε ή να τη στείλετε για ανακύκλωση στο τέλος της ζωής της. Για την πρόληψη βλάβης στο προϊόν, και για την ασφάλεια του χρήστη, μην επιχειρήσετε να αφαιρέσετε τη μπαταρία. Απευθυνθείτε στη Γραμμή Βοήθειας της LG, ή σε άλλο επαγγελματία. Η αφαίρεση της μπαταρίας προϋποθέτει αποσυναρμολόγηση του περιβλήματος του προϊόντος, αποσύνδεση των ηλεκτρικών καλωδίων/επαφών, και προσεκτική απομάκρυνση της μπαταρίας με εξειδικευμένα εργαλεία. Εάν χρειάζεστε τις επαγγελματικές οδηγίες για την αφαίρεση της μπαταρίας, επισκεφθείτε τη διεύθυνση <http://www.lge.com/global/sustainability/environment/take-back-recycling>

# 0. Precautions

## **Hungarian**

### **Elhasználódott elemek és akkumulátorok eltávolítása**

#### **(KIZÁRÓLAG beágyazott elemmel rendelkező termékek esetében)**

Ha a termék olyan beágyazott elemet tartalmaz, amelyet a termékből a végfelhasználó nem tud könnyedén eltávolítani, az LG azt javasolja, hogy elemcseréhez vagy a termék élettartamának végén az újrahasznosításhoz azt csak szakemberrel távolíttassák el. A termék sérülésének megakadályozása és a saját biztonsága érdekében a felhasználók ne kíséreljék meg az elem eltávolítását, és tanácsadásért vegyék fel a kapcsolatot az LG Service segélyvonalával vagy más független szolgáltatóval.

Az elem eltávolítása során fel kell nyitni a termékházat, le kell csatlakoztatni az elektromos kábeleket/érintkezőket, és speciális szerszámmal óvatosan ki kell emelni az elemcellát. Ha szakember tanácsára van szüksége ahhoz, hogy biztonságosan távolítsa el az elemet, látogasson el a következő webhelyre: <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Italian**

### **Rimozione di batterie e accumulatori**

#### **(SOLO prodotti con batteria incorporata)**

Nel caso in cui il prodotto contenga una batteria incorporata nel prodotto che non può essere facilmente rimossa dall'utente finale, LG raccomanda che la batteria venga rimossa solo da professionisti qualificati, sia per la sostituzione sia per il riciclaggio al termine della vita del prodotto. Per evitare danni al prodotto, e per la propria sicurezza, gli utenti non devono tentare di rimuovere la batteria, ma contattare il Servizio clienti di LG o altri fornitori di servizi indipendenti per ottenere consiglio.

La rimozione della batteria comporta lo smantellamento della custodia del prodotto, la disconnessione di cavi/contatti elettrici, e l'attenta estrazione della cella batteria utilizzando strumenti specifici. In caso di bisogno di istruzioni per professionisti qualificati su come rimuovere la batteria in modo sicuro, si prega di visitare

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Latvian**

### **Nederīgo bateriju un akumulatoru izņemšana**

#### **(TIKAI produktiem ar iebūvētu akumulatoru)**

Ja šim produktam ir akumulators, kas iebūvēts produktā tā, ka gala lietotājs to nevar vienkārši izņemt, LG iesaka akumulatora izņemšanu nomaiņas vai pārstrādes nolūkos produkta dzīves cikla beigās uzticēt tikai kvalificētiem speciālistiem. Lai nenodarītu kaitējumu produktam un pasargātu sevi, lietotājiem nevajadzētu mēģināt izņemt akumulatoru un vajadzētu konsultēties ar LG palīdzības dienestu vai kādu neatkarīgu pakalpojumu sniedzēju.

Lai izņemtu produkta akumulatoru, ir jānoņem produkta korpuss, jāatvieno vadi un kontakti un ar īpašiem darbarīkiem uzmanīgi jāizņem akumulators. Ja jums nepieciešamas kvalificētiem speciālistiem paredzētās norādes par akumulatora drošu izņemšanu, dodieties uz

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

# 0. Precautions

## Lithuanian

### **Baterijų ir akumuliatorių atliekų pašalinimas** **(TIK produktams su integruotu akumuliatoriumi)**

Jei šiame produkte įmontuotas akumuliatorius, kurio tiesioginis naudotojas lengvai pašalinti negali, „LG“ rekomenduoja kad akumuliatorių, jo keitimo atveju arba perdirbimo produkto tarnavimo laiko pabaigoje, pašalintų tik kvalifikuoti specialistai. Siekiant apsaugoti įrenginį nuo apgadinimo ir jūsų pačių saugumui, naudotojai neturėtų bandyti patys pašalinti akumuliatoriaus ir norėdami gauti patarimų turėtų susisiekti su „LG“ Paslaugų pagalbos linija ar kitais nepriklausomais paslaugų tiekėjais.

Akumuliatoriaus pašalinimas apima produkto korpuso išardymą, elektrinių kabelių/kontaktų atjungimą ir atsargų akumuliatoriaus elemento išėmimą naudojant specialius įrankius. Jei jums reikia kvalifikuotiems specialistams skirtų instrukcijų kaip saugiai pašalinti akumuliatorių, prašome apsilankyti <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## Macedonian

### **Отстранување на потрошените батерии и акумулатори** **(САМО производи со вградена батерија)**

Доколку производот содржи батерија што е вградена во производот и што не можат крајните корисници да ја отстранат, LG препорачува батеријата да ја отстранат само kvalifikuвани професионални лица, било да е за менување или за рециклирање по истекот на животниот век на производот. За да спречат oштетување на производот и поради нивна сопствена безбедност, корисниците не треба да се обидуваат да ја отстрануваат батеријата и треба да ја контактираат линијата за помош при услуги на LG или други независни isporачувачи на услуги.

Отстранувањето на батеријата значи и rasckloпување на куќиштето на производот, iscključување на електричните кабли/контакти и внимателно вадење на батеријата со специјализиран алат. Доколку ви се потребни инструкциите за kvalifikuвани професионални лица за тоа како да ја отстраните батеријата безбедно, посетете ја веб-страницата <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## Netherlands

### **Verwijdering van afgedankte batterijen en accu's** **(ALLEEN product ingebedde batterij)**

In het geval dat dit product een binnen het product opgenomen batterij bevat, die niet gemakkelijk kan worden verwijderd door eindgebruikers, raadt LG aan om de batterij alleen door gekwalificeerde professionals te laten verwijderen, zijnde voor vervanging of voor recycling aan het einde van de levensduur van dit product. Om schade aan het product te voorkomen, en voor hun eigen veiligheid, moeten gebruikers niet proberen om de batterij te verwijderen en moeten contact opnemen met de LG-servicehulplijn of andere onafhankelijke serviceproviders voor advies.

Het verwijderen van de batterij betreft demontage van de productbehuizing, verbreken van de verbinding van elektriciteitskabels/contacten en het zorgvuldig uitnemen van de batterijcel met gebruik van gespecialiseerd gereedschap. Als u de instructies voor gekwalificeerde professionals nodig hebt betreffende het veilig verwijderen van de batterij, gaat u naar <http://www.lge.com/global/sustainability/environment/take-back-recycling>



# 0. Precautions

## **Norwegian**

### **Fjerning av brukte batterier og akkumulatører** **(KUN produkt med integrert batteri)**

I tilfelle dette produktet inneholder et batteri innlemmet i produktet som ikke enkelt kan fjernes av sluttbrukere, anbefaler LG at kun kvalifisert fagpersonale fjerner batteriet, enten for bytte eller for resirkulering ved slutten av dette produktets brukstid. For å unngå skade på produktet, og for deres egen sikkerhet, bør brukere ikke prøve å fjerne batteriet, og bør kontakte LG Service Helpline, eller andre uavhengige serviceleverandører for råd.

Fjerning av batteriet vil involvere demontering av produktets deksel, frakobling av elektriske kabler/kontakter, og forsiktig uttrekking av battericellen med spesialverktøy. Hvis du trenger instruksjonene for kvalifisert fagpersonale om hvordan batteriet fjernes trygt, gå til

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Polish**

### **Usuwanie zużytych baterii i akumulatorów** **(Dotyczy TYLKO produktów z wbudowaną baterią)**

Jeśli ten produkt ma wbudowaną baterię, której konsument nie powinien usuwać samodzielnie, LG zaleca, aby usunięcie baterii (w celu jej wymiany lub recyklingu po zakończeniu cyklu życia produktu) zlecić osobie wykwalifikowanej. Aby uniknąć uszkodzenia produktu i ewentualnego niebezpieczeństwa, użytkownik nie powinien próbować usuwać baterii. Zamiast tego, powinien skontaktować się z LG Service Helpline lub innym niezależnym dostawcą usług w celu uzyskania porady.

Proces usuwania baterii z urządzenia obejmuje zdjęcie obudowy z urządzenia, odłączenie przewodów i styków elektrycznych oraz ostrożne usunięcie ogniów baterii za pomocą specjalistycznych narzędzi. Jeśli potrzebujesz instrukcji bezpiecznego usuwania baterii przeznaczonej dla wykwalifikowanych pracowników, odwiedź stronę

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Portuguese**

### **Remoção de resíduos de pilhas e acumuladores** **(APENAS produtos com bateria incorporada)**

No caso de este produto conter uma bateria incorporada que não possa ser removida prontamente pelos utilizadores finais, seja para substituição ou reciclagem no fim da vida útil deste produto, a LG recomenda que a sua remoção seja efetuada apenas por técnicos qualificados. Para evitar danificar o produto e para sua própria segurança, os utilizadores não deverão tentar remover a bateria, devendo contactar o Serviço de Assistência LG ou outros fornecedores de serviços independentes.

A remoção da bateria implica a desmontagem da estrutura do produto, a retirada dos cabos/contactos eléctricos e a extração cuidadosa da célula da bateria utilizando ferramentas específicas. Se pretender obter instruções de técnicos qualificados sobre o modo de remoção seguro da bateria, visite <http://www.lge.com/global/sustainability/environment/take-back-recycling>



# 0. Precautions

## **Romanian**

### **Eliminarea bateriilor uzate și acumulatorilor uzați (DOAR în cazul produselor cu baterie încorporată)**

În cazul în care bateria este încorporată în produs și nu poate fi îndepărtată de utilizatorul final, LG recomandă ca bateria să fie îndepărtată doar de către un personal calificat; bateria astfel îndepărtată trebuie înlocuită și reciclată la sfârșitul duratei de viață a produsului. Pentru a preveni deteriorarea produsului și producerea oricărui accident, utilizatorilor li se recomandă să nu îndepărteze bateria, și să contacteze Serviciul de Asistență LG, sau orice altă unitate service individuală.

Eliminarea bateriei implică demontarea carcasei produsului, deconectarea cablurilor/racordurilor electrice și îndepărtarea cu atenție a bateriei, cu folosirea sculelor speciale. Pentru instrucțiunile de îndepărtare în condiții de siguranță a bateriei, destinate personalului calificat, vă rugăm accesați

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Russian**

### **Извлечение отработанных батарей и аккумуляторов (ТОЛЬКО для продуктов со встроенной батареей)**

В случае если данный продукт имеет встроенную батарею, которую конечные пользователи не могут без труда извлечь, компания LG рекомендует, чтобы батарея была извлечена только квалифицированными профессионалами для ее замены или утилизации по окончании срока службы данного продукта. Во избежание повреждения продукта и в целях обеспечения собственной безопасности пользователям следует избегать попыток извлечь батарею и следует связаться со Службой поддержки LG или другими независимыми поставщиками услуг для получения совета.

Извлечение батареи включает в себя демонтаж корпуса продукта, отключение электрических кабелей/контактов и осторожное извлечение элемента батареи, используя специализированные инструменты. Для получения инструкций по безопасному извлечению батареи для квалифицированных профессионалов, пожалуйста, посетите

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Serbian Latin**

### **Uklanjanje starih istrošenih baterija i akumulatora (JEDINO proizvod sa ugrađenom baterijom)**

U slučaju da ovaj proizvod sadrži bateriju koju krajnji korisnik ne može jednostavno da izvadi, LG preporučuje da to uradi samo kvalifikovana osoba, bilo da se radi o zameni ili recikliranju baterije nakon što se istroši. Kako bi se sprečio nastanak bilo kakvog oštećenja na proizvodu, a i zbog svoje lične sigurnosti, korisnici nikako ne treba da pokušavaju da sami izvade bateriju, već treba da pozovu LG pomoćni servis ili nekog drugog nezavisnog provajdera za savet.

Vađenje baterije će podrazumevati demontiranje kutije proizvoda, isključivanje električnih kablova i oprezno vađenje stanice baterije koristeći posebne alate. Ako Vam je potrebna pomoć kvalifikovane osobe da biste videli kako se to radi, molimo Vas da pogledate veb stranicu

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

# 0. Precautions

## **Slovak**

### **Vybratie odpadových batérií a akumulátorov (LEN produkt so vstavanou batériou)**

V prípade, ak tento produkt obsahuje batériu vstavanú v produkte, ktorú nedokáže koncový používateľ jednoducho vybrať, spoločnosť LG odporúča, aby batériu na účel výmeny alebo recyklovania po skončení prevádzkovej životnosti tohto produktu vybrali kvalifikovaní odborníci. S cieľom zabrániť poškodeniu produktu a kvôli vlastnej bezpečnosti sa používatelia nesmú pokúšať vybrať batériu a o pomoc musia požiadať linku pomoci servisu LG alebo iných nezávislých poskytovateľov servisu.

Súčasťou vybratia batérie bude rozmontovanie skrinky produktu, odpojenie elektrických káblov/kontaktov a opatrné vybratie článku batérie pomocou špeciálneho náradia. Ak potrebujete pokyny o spôsobe bezpečného vybratia batérie určené pre kvalifikovaných odborníkov, navštívte <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Slovenian**

### **Odstranjevanje odpadnih baterij in akumulatorjev (SAMO izdelki z vgrajeno baterijo)**

Če izdelek vsebuje v izdelek vgrajene baterije in jih končni uporabnik ne more zlahka odstraniti, vam LG priporoča, da poiščete pomoč usposobljenega strokovnjaka, bodisi za zamenjavo baterije ali za recikliranje ob koncu delovne dobe tega izdelka. Za preprečevanje poškodb na izdelku in varnost uporabnika, ne odstranjujte baterij sami, ampak si poiščite pomoč servisa LG Service Helpline, ali drugega neodvisnega servisa, ki nudi takšne storitve.

Odstranitev baterije bo vključevala, v primeru odstranitve izdelka, prekinitev električnih kablov/kontaktov in previdno odstranitev baterije, z uporabo ustreznega specialnega orodja. Če potrebujete navodila za kvalificirane strokovnjake o tem, kako varno odstraniti baterijo, obiščite spletno stran <http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Spanish**

### **Eliminación de las baterías y acumuladores usados (SOLO para productos con batería integrada)**

En caso de que este producto contenga una batería incorporada que los usuarios finales no pueda retirar fácilmente, LG recomienda que sólo profesionales cualificados retiren la batería, ya sea para su sustitución que para reciclar la batería al final de la vida útil del producto.

Para evitar daños en el producto, y por su propia seguridad, el usuario no debe intentar retirar la batería, debe ponerse en contacto con la Línea de Ayuda de Servicios de LG, o con otros proveedores de servicios independientes para su asesoramiento.

La eliminación de la batería implicará desmontar la carcasa del producto, la desconexión de los cables/contactos eléctricos, y una cuidadosa extracción de la célula de la batería utilizando herramientas especializadas. Si necesita instrucciones de profesionales cualificados sobre cómo retirar la batería de manera segura, por favor visite

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

# 0. Precautions

## **Swedish**

### **Kassering av förbrukade batterier och ackumulatorer** **(Endast produkt med inbyggt batteri)**

Om den här produkten innehåller ett batteri som sitter inbyggt i produkten och inte enkelt kan tas bort av användarna rekommenderar LG att endast behöriga personer tar ur batteriet, antingen för byte eller återvinning i slutet av produktens livslängd. För att förhindra skada på produkten och av säkerhetsskäl får användarna inte försöka ta ur batteriet och ska kontakta LG Service Helpline, eller en annan oberoende tjänsteleverantör för att få hjälp.

Borttagning av batteriet inkluderar demontering av produktens kåpa, frånkoppling av elektriska kablar/kontakter och försiktigt uttag av batteriet med specialverktyg. Vid behov av instruktioner från behöriga fackmän kring hur batteriet avlägsnas på ett säkert sätt, besök sidan

<http://www.lge.com/global/sustainability/environment/take-back-recycling>

## **Turkish**

### **Atık batarya ve akülerin çıkarılması** **(SADECE gömülü bataryalı üründe)**

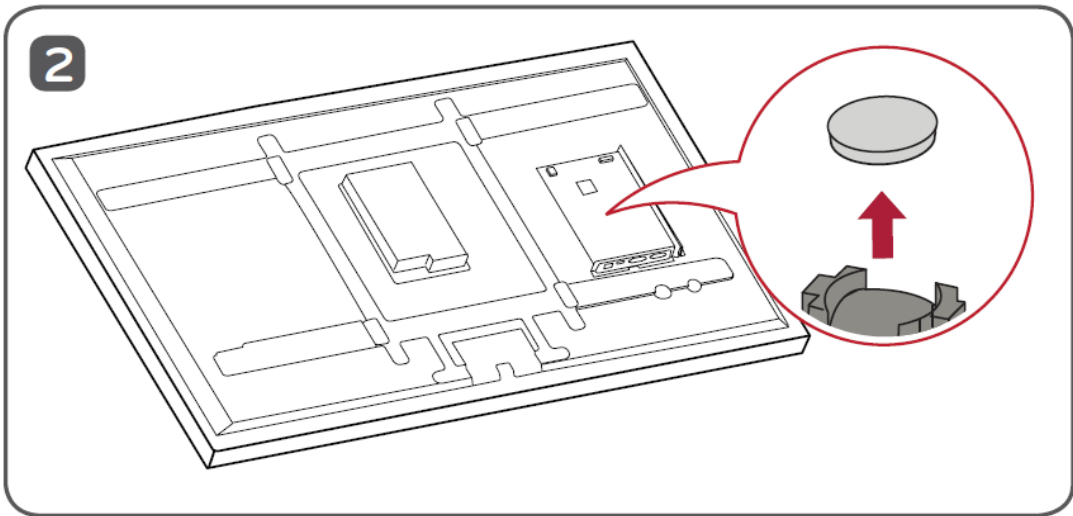
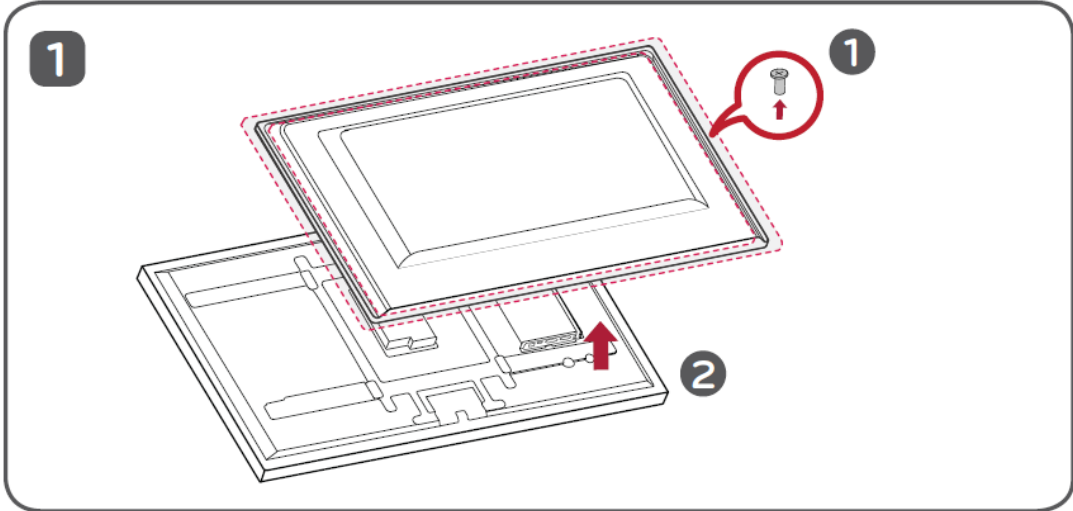
Bu üründe, nihai kullanıcılar tarafından kolaylıkla çıkarılmayan bataryanın ürünle birleşik konumda olması halinde LG, ister batarya değişiminde ister bu ürünün kullanım süresinin sonunda gerçekleşecek olan bataryanın geri dönüşümünde bataryanın sadece nitelikli ve uzman kişiler tarafından çıkarılmasını tavsiye eder. Kullanıcılar, ürünün zarar görmesini engellemek ve kendi güvenliklerini sağlamak için bataryayı çıkarmaya kalkışmamalı ve öneri konusunda LG Servis Yardım Hattı ya da diğer bağımsız servis sağlayıcıları ile iletişime geçmelidir.

Bataryayı çıkarma işlemi, ürün kasasının sökülmesini, elektrik kablo/bağlantılarının kesilmesini ve özel aletler kullanılarak bataryanın dikkatli bir şekilde çıkarılmasını kapsar. Nitelikli ve uzman kişilerin bataryayı güvenli bir şekilde çıkarmalarına yönelik talimatlara ihtiyaç duymanız halinde lütfen <http://www.lge.com/global/sustainability/environment/take-back-recycling> bağlantısına gidiniz.

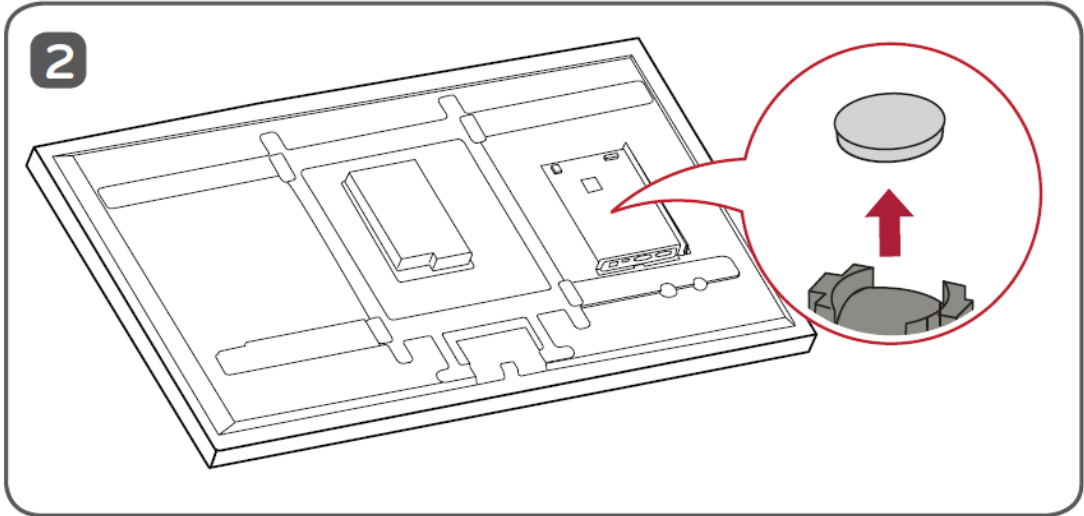
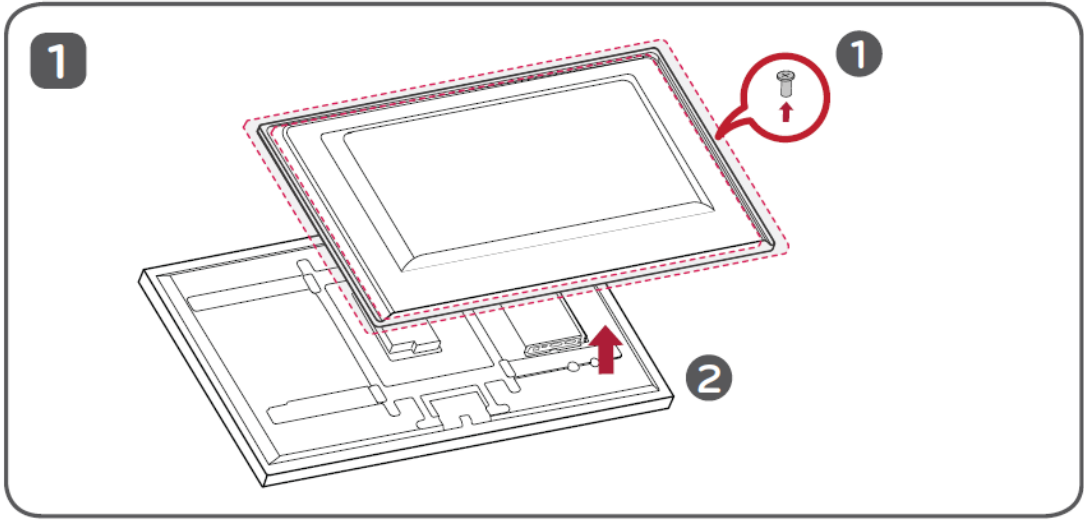
# I. TV / Monitor

# 1. Commercial TV

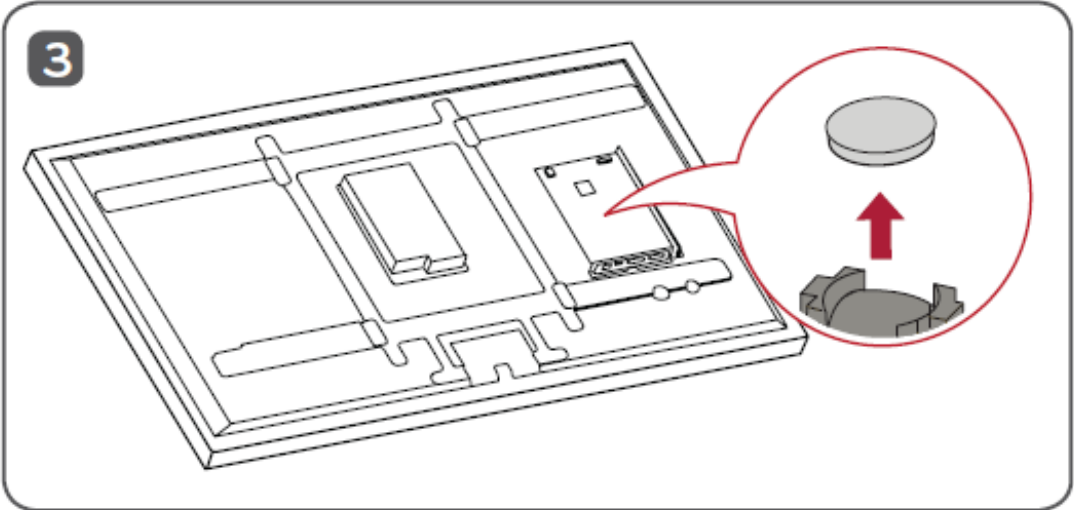
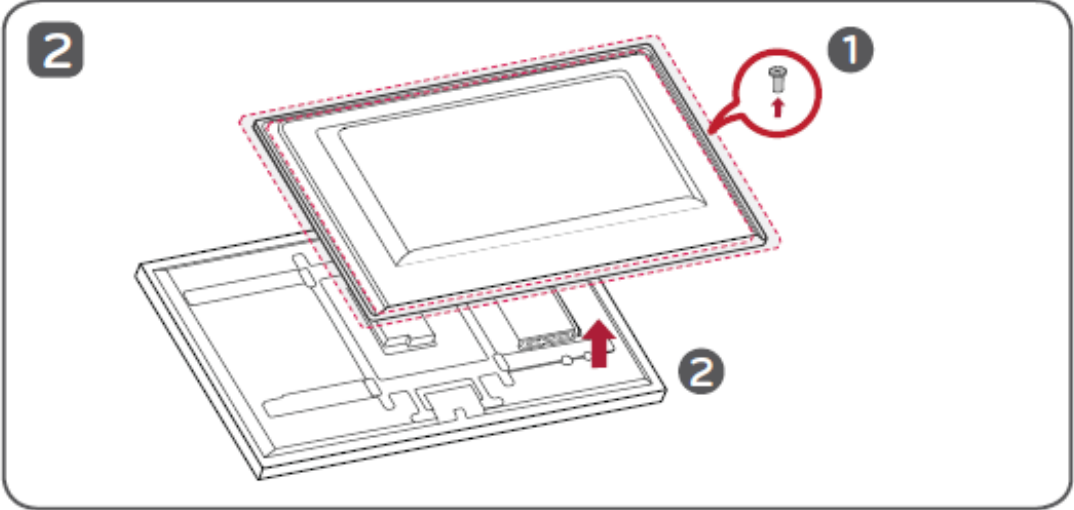
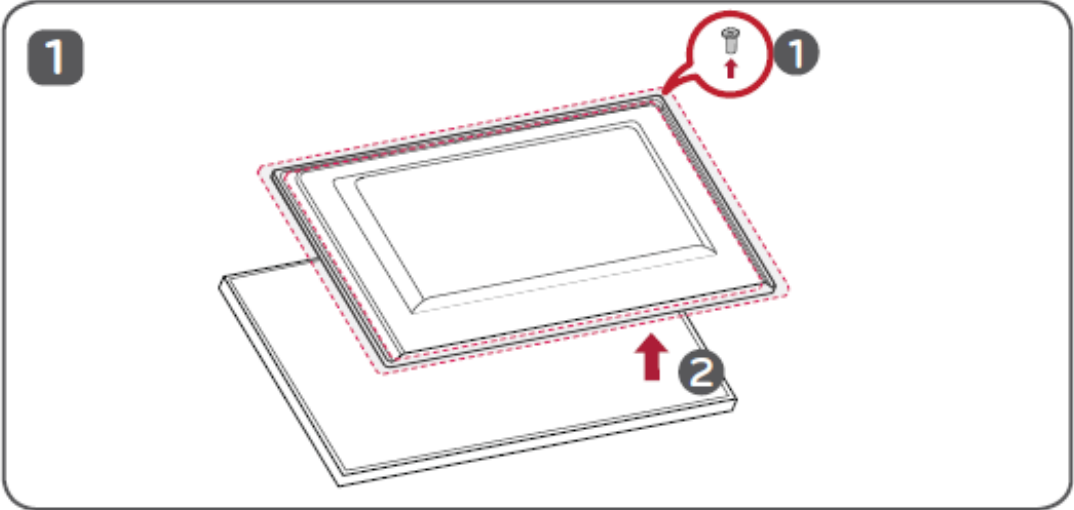
## ■ Disassemble process



# 2. Signage Monitor (Normal)



# 3. Signage Monitor (Touch)

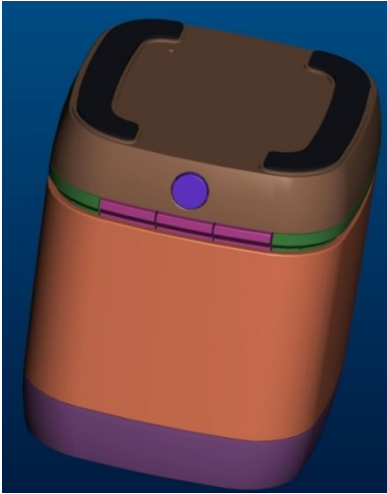


## **II. Audio / Video**

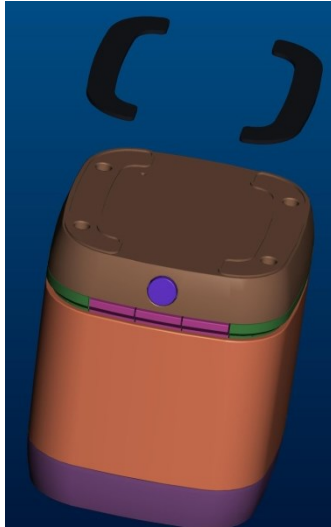


# 1. NP1540

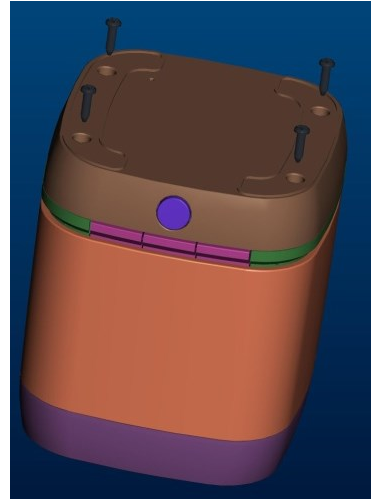
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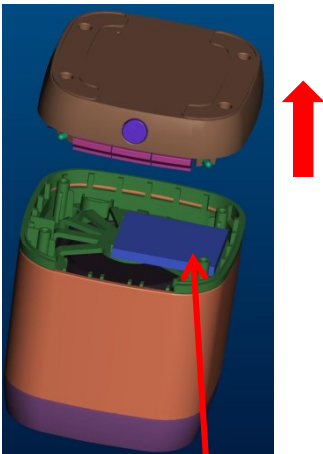
②



③

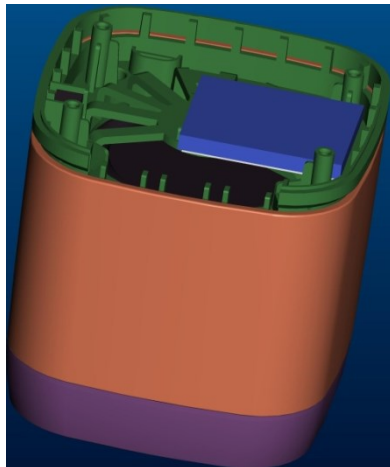


④

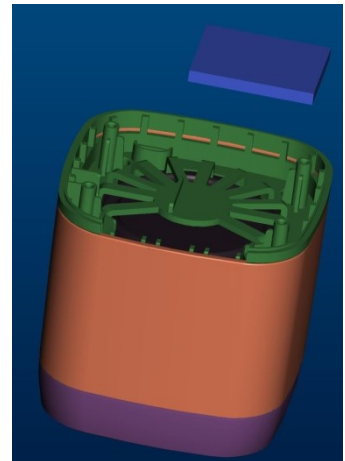


Battery

⑤

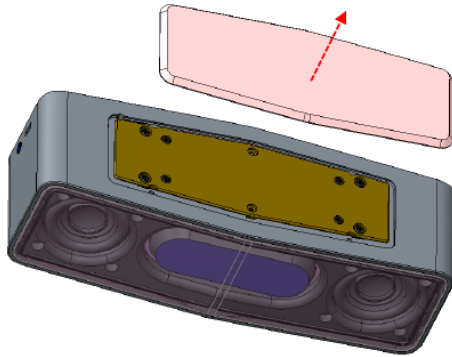


⑥

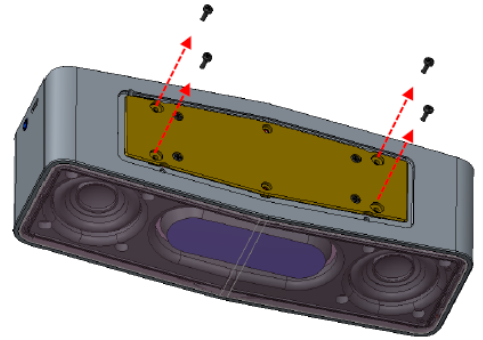


## 2. NP 7550 / NA8550 / NP8350 / NA9350 / ART71 / ART72 / ART73

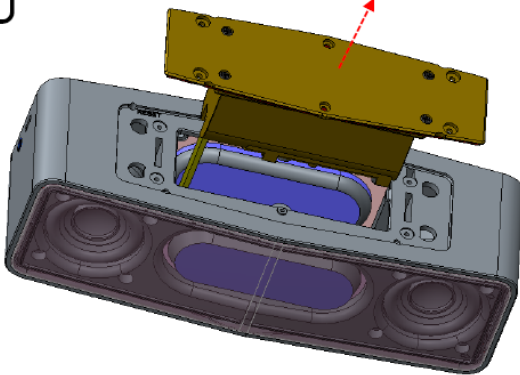
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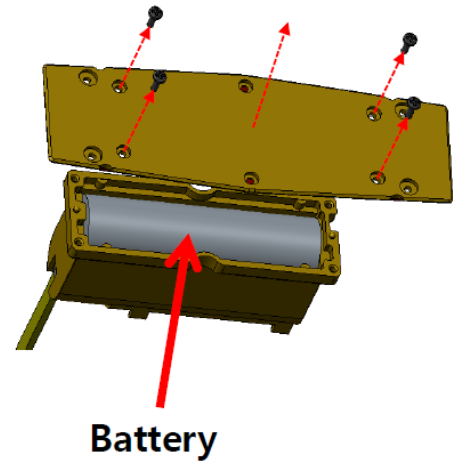
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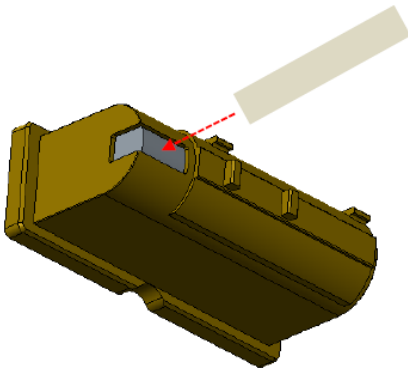
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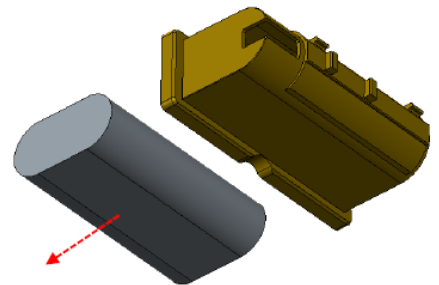
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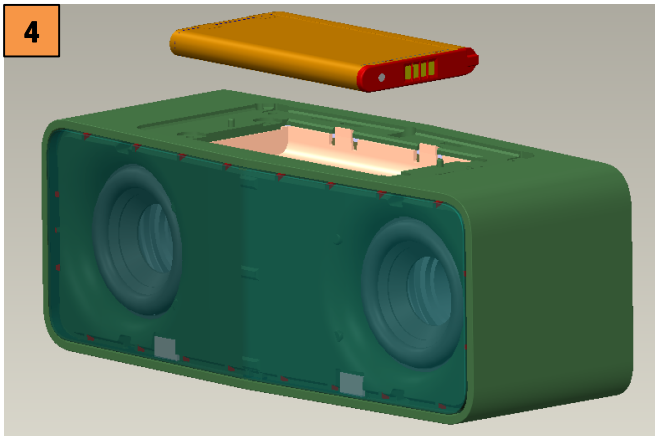
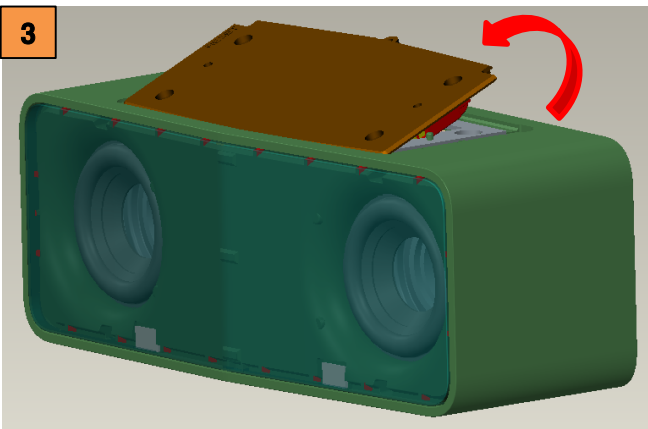
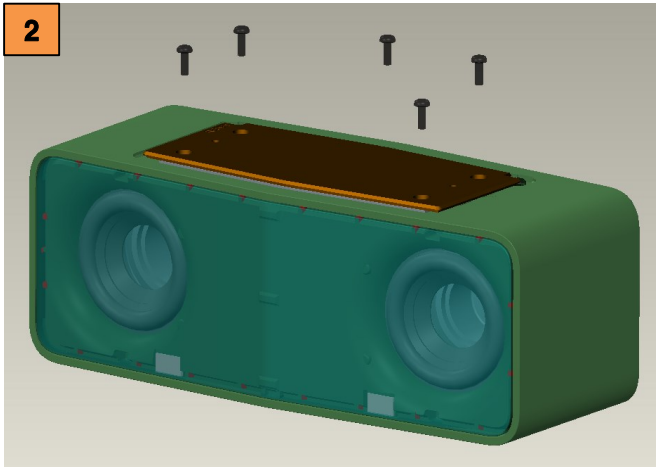
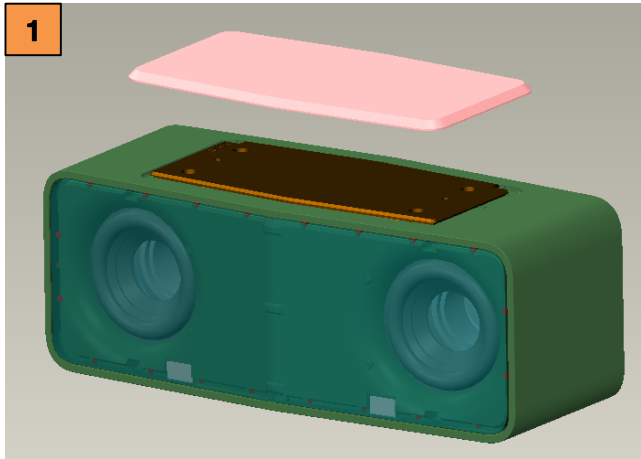
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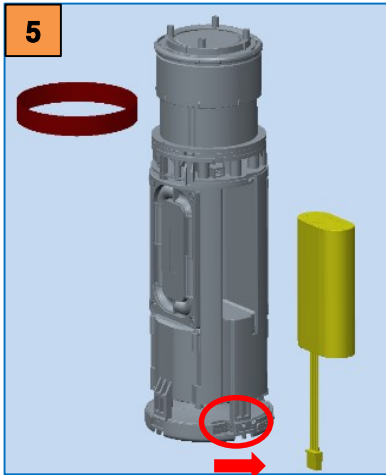
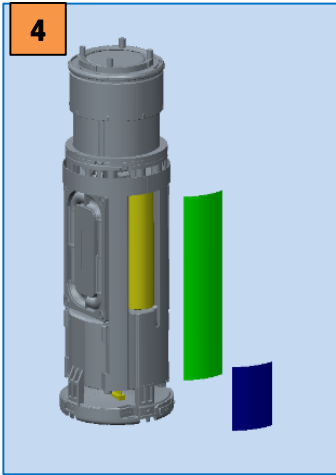
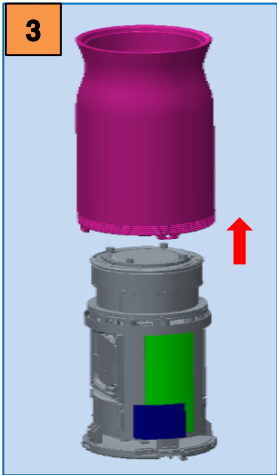
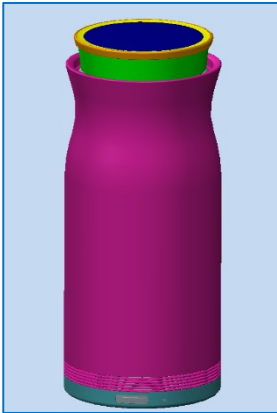
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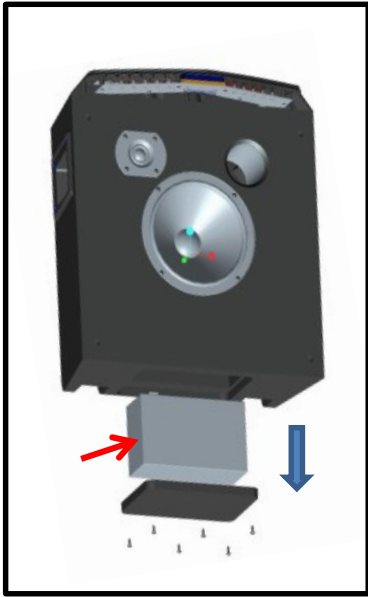
### 3. NP5550 / NA6550 / ART51 / ART52 / ART53



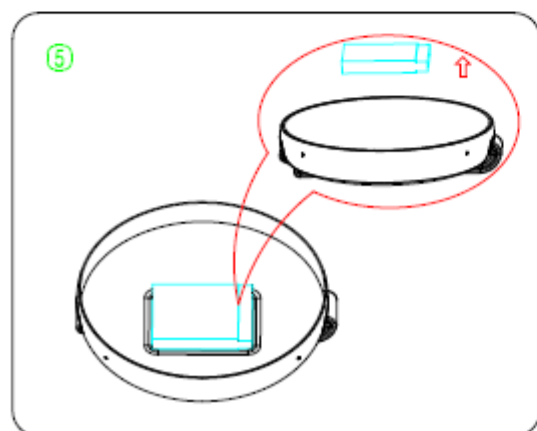
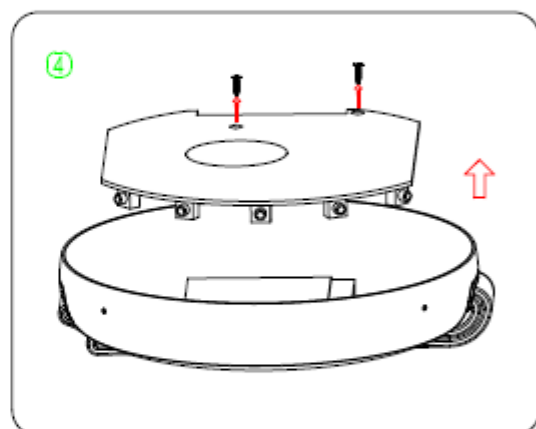
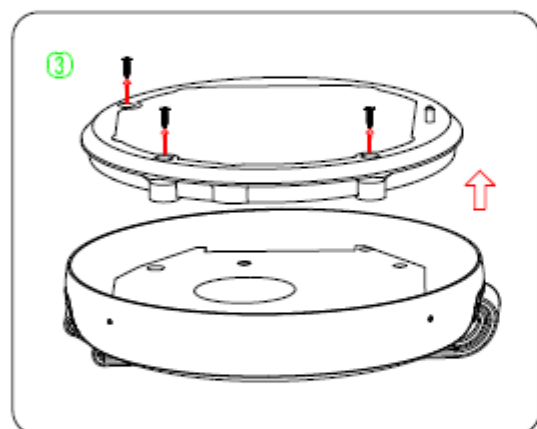
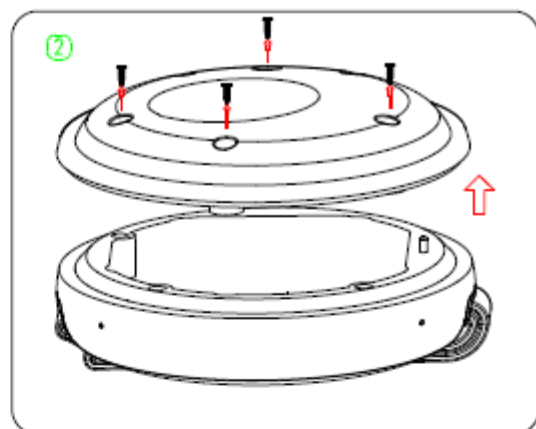
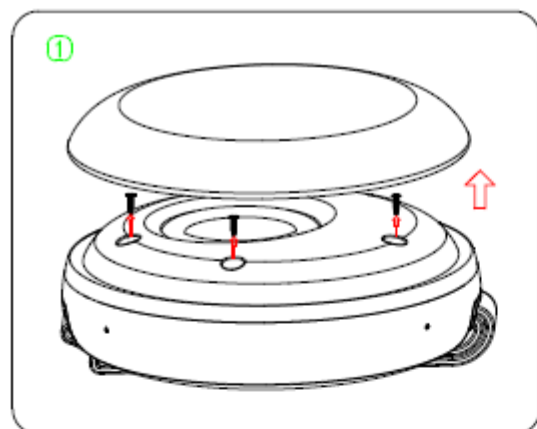
# 4. NP7860 / NA8860



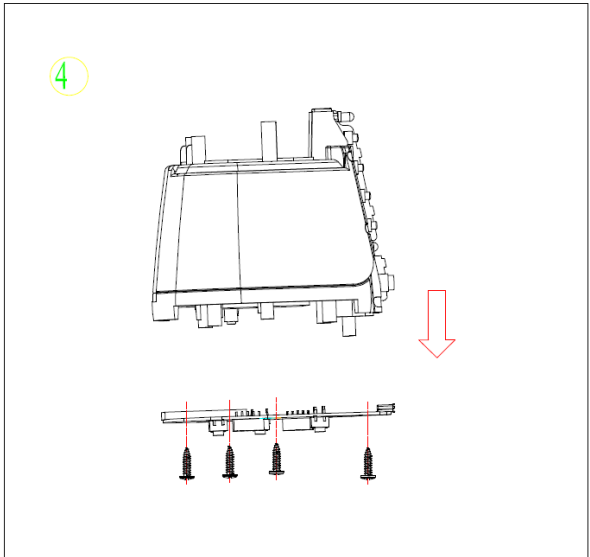
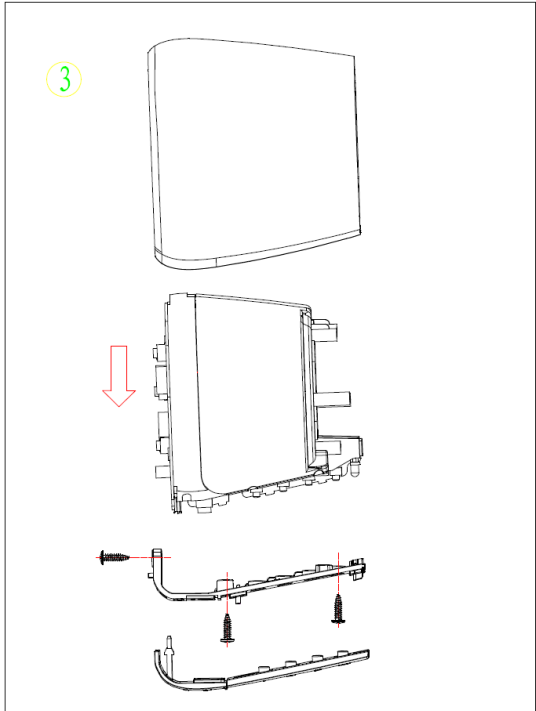
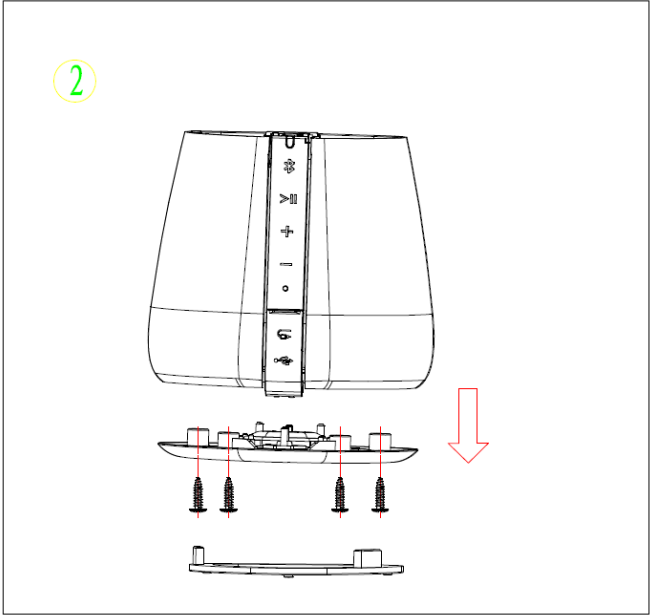
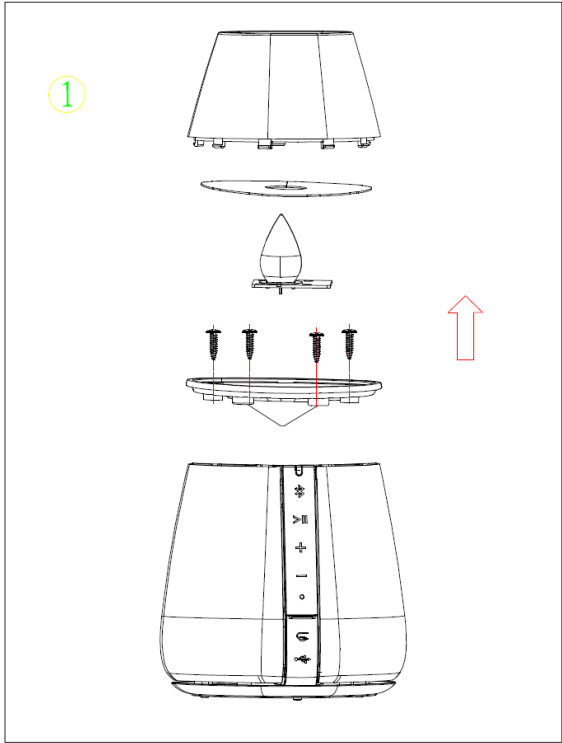
# 5. FH2



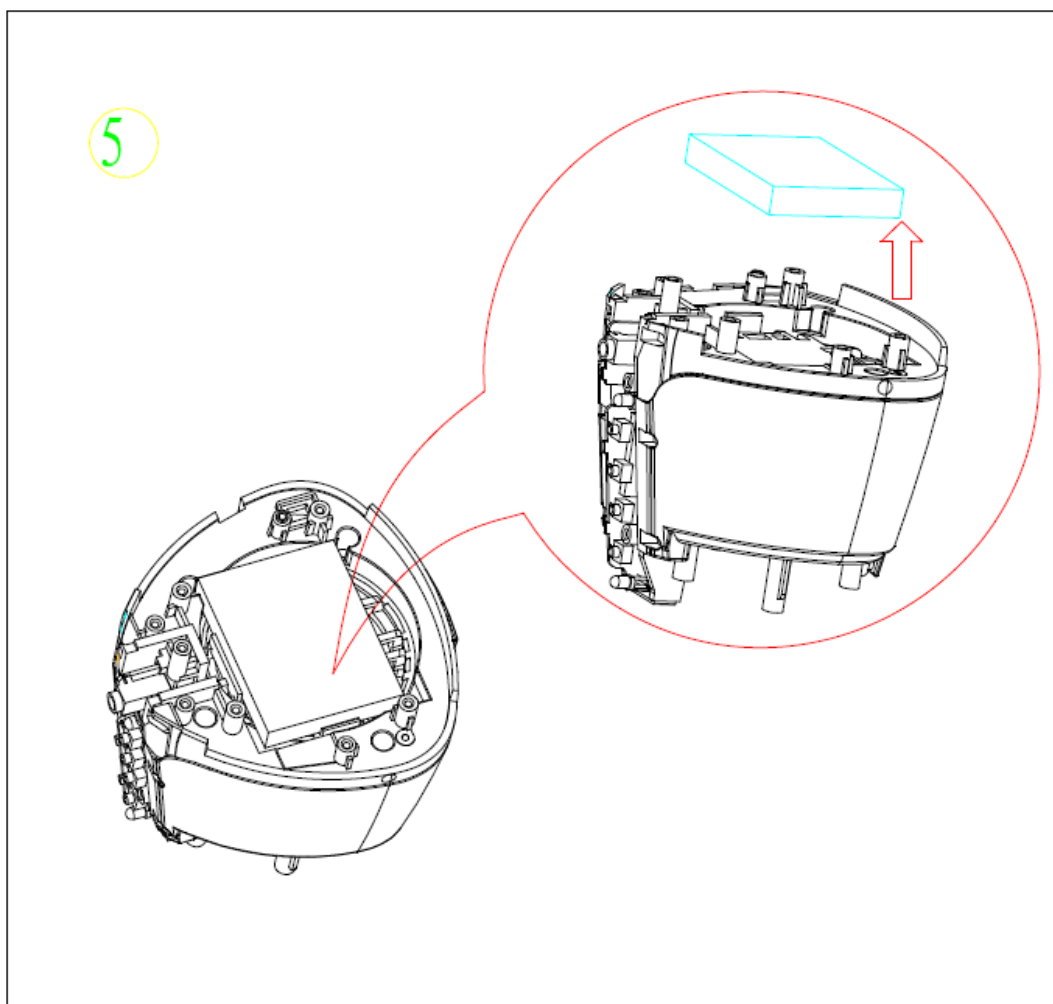
## 6. PH2



# 7. PH3

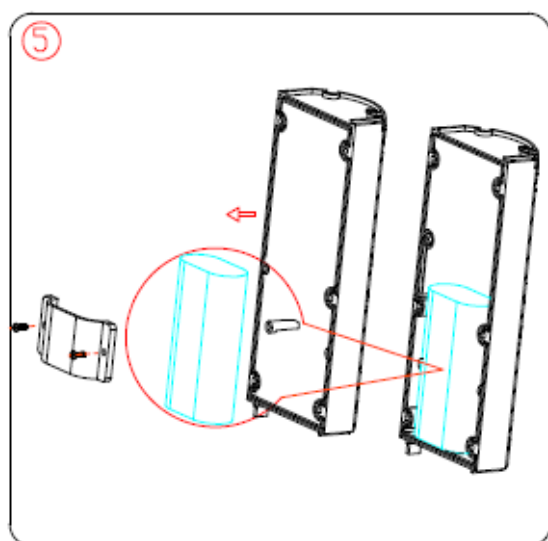
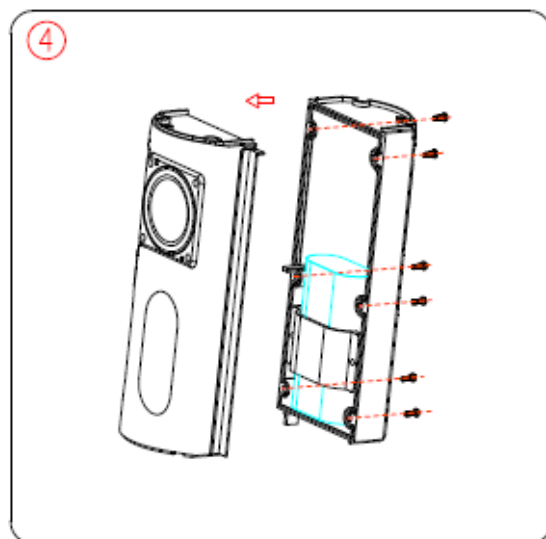
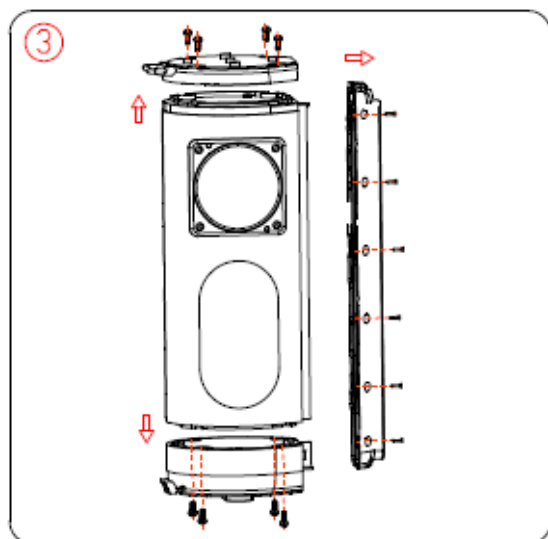
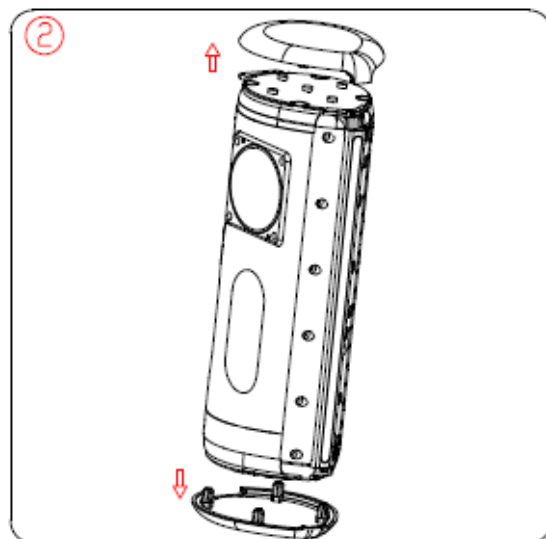
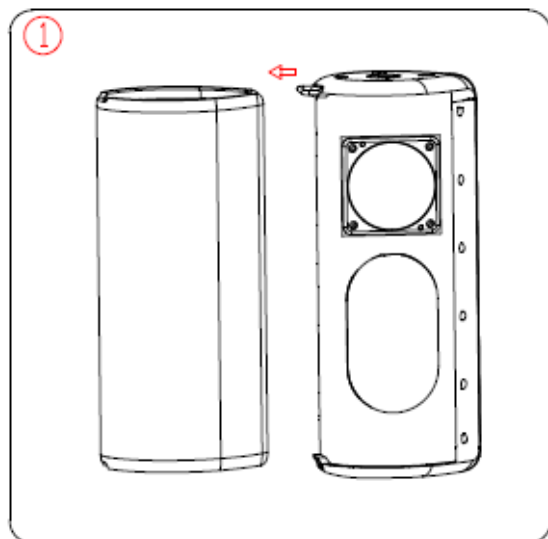


## 7. PH3



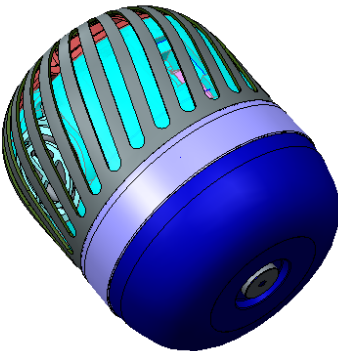


## 8. PH4

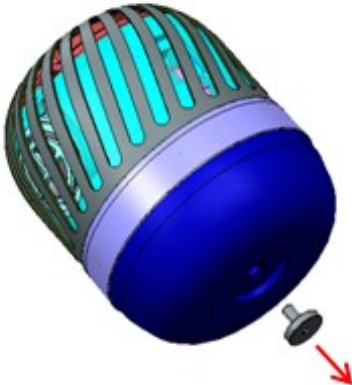


# 9. PJ3 / PJ8

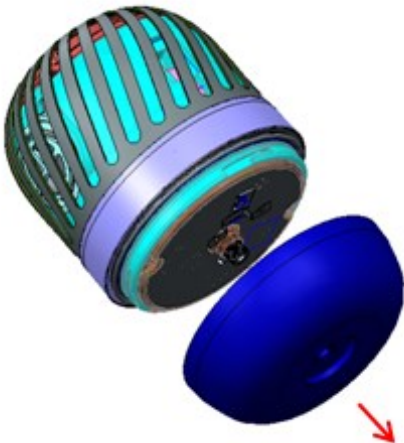
1



2



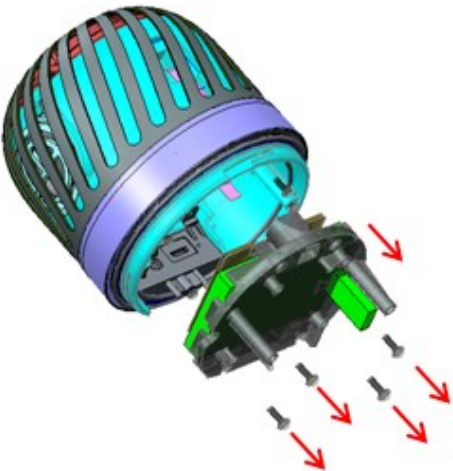
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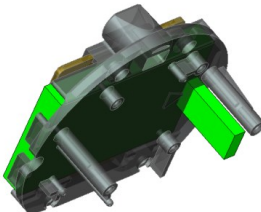
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5

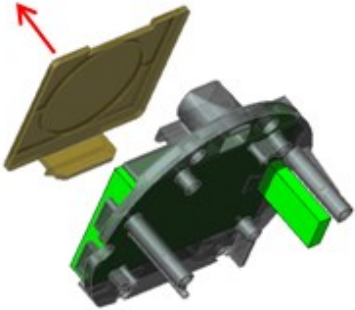


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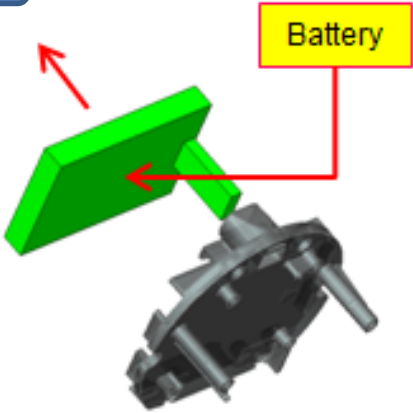


# 9. PJ3 / PJ8

7

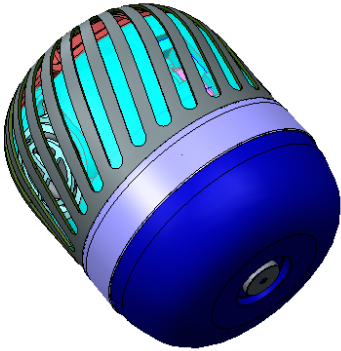


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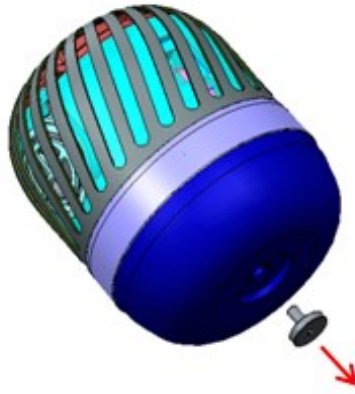


# 10. PJ9

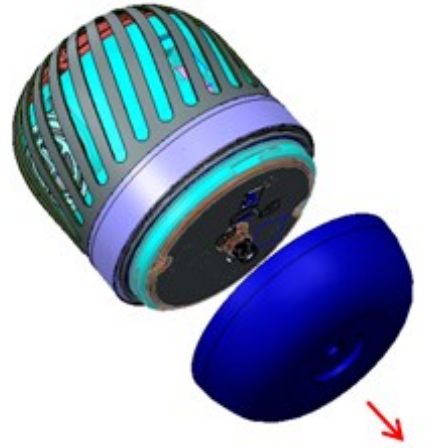
1



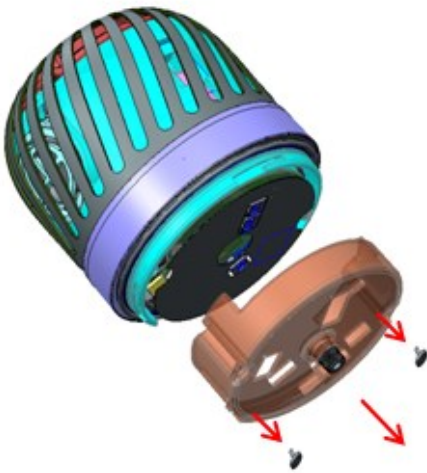
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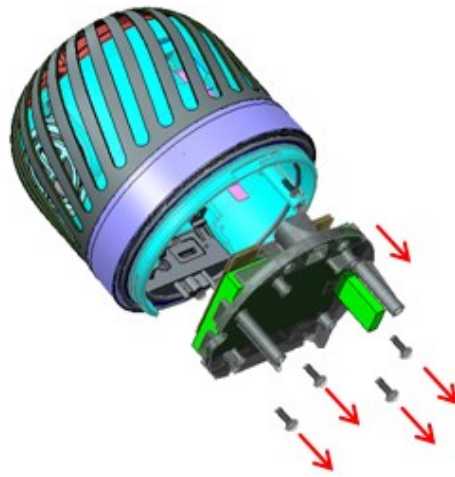
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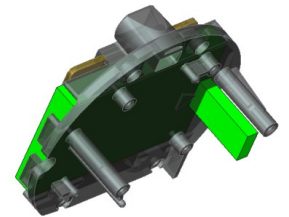
4



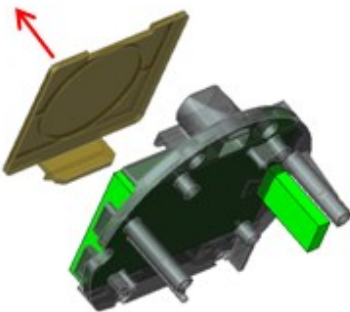
5



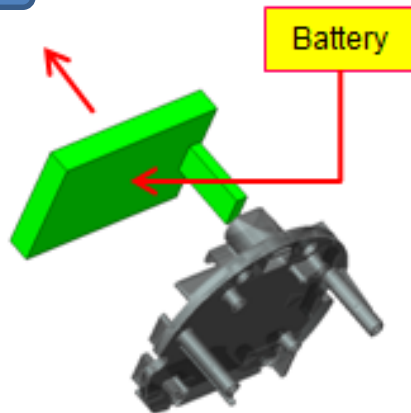
6



7

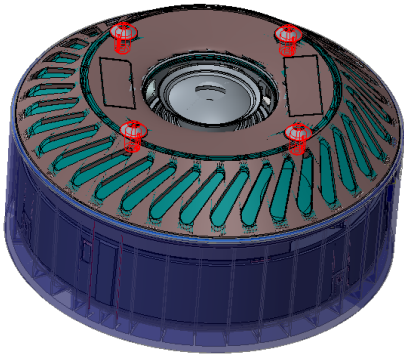


8

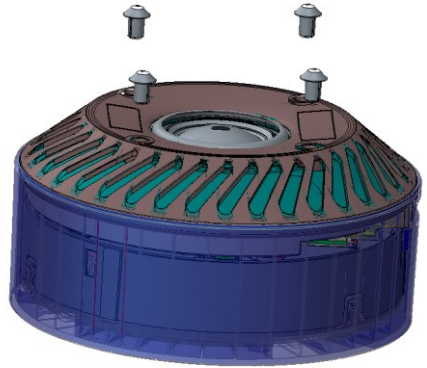


# 10. PJ9

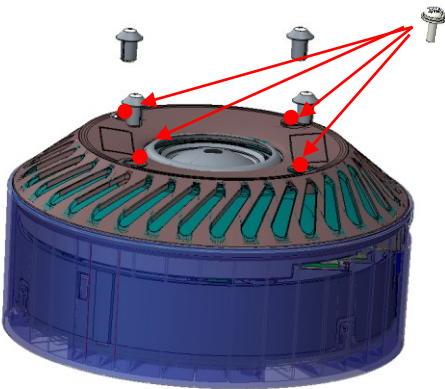
1



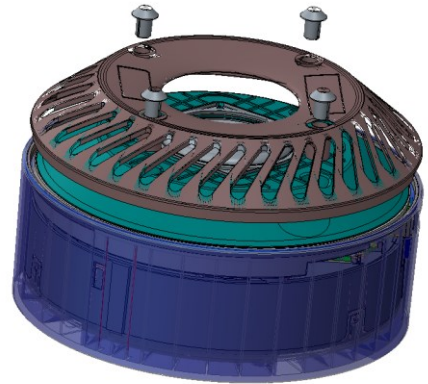
2



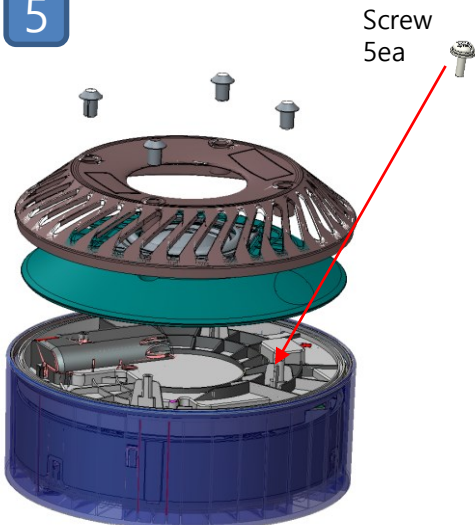
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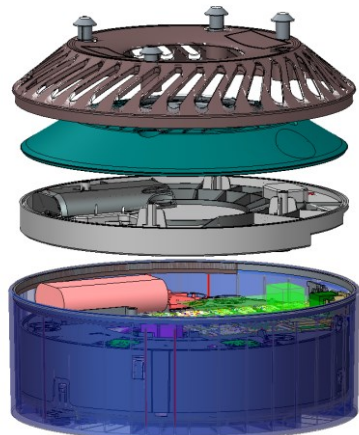
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5



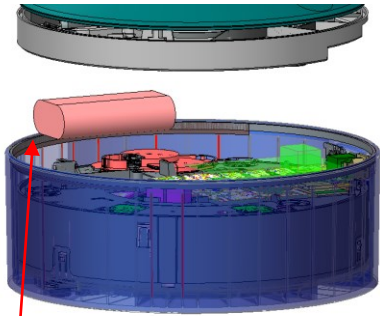
6



# 10. PJ9

---

7



battery



# 11. FJ3

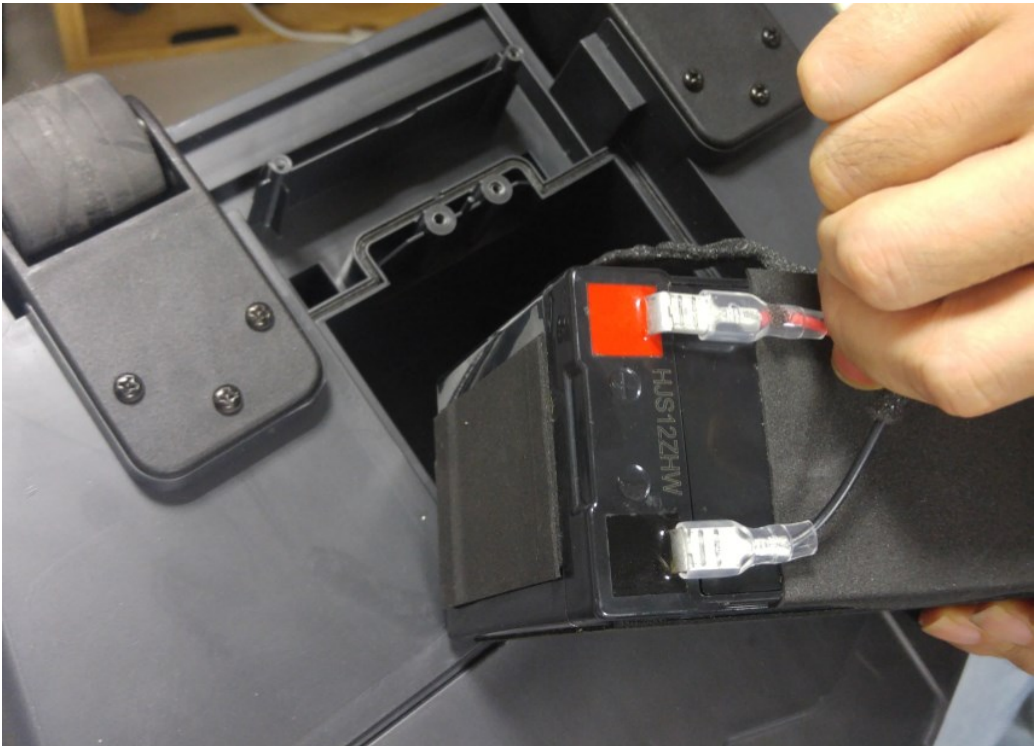
①



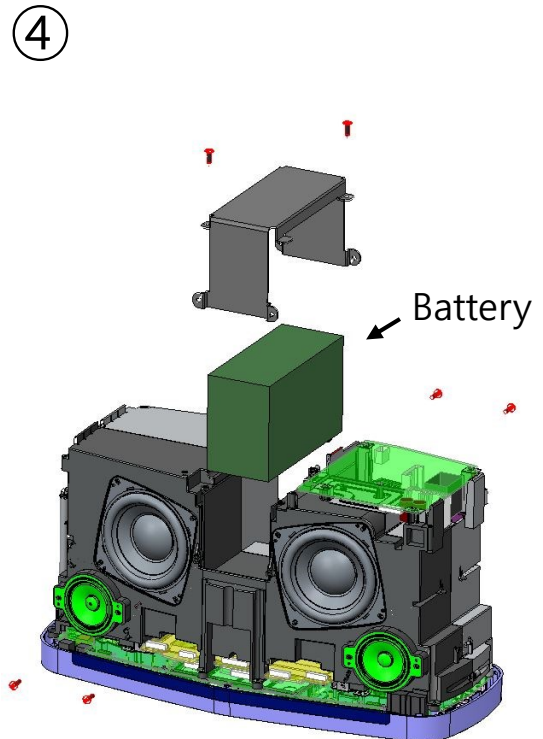
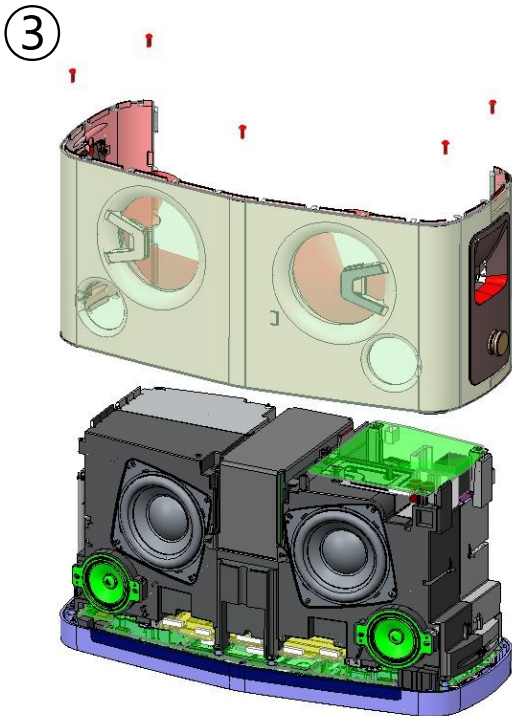
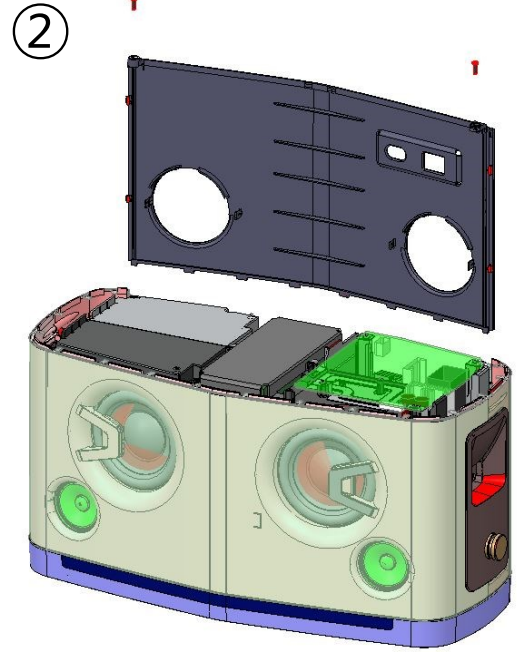
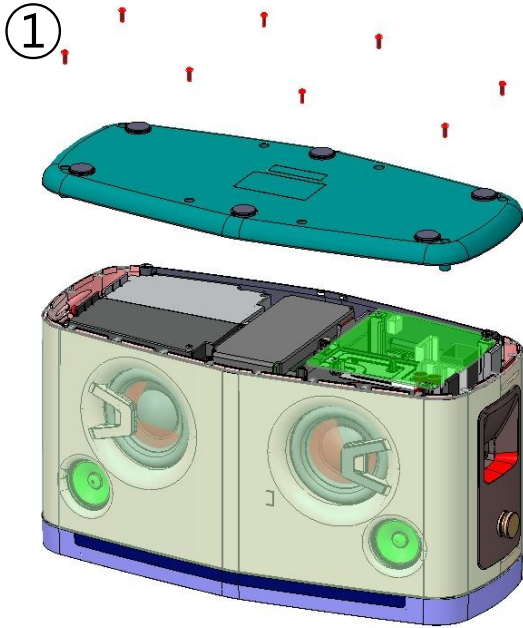
②



③

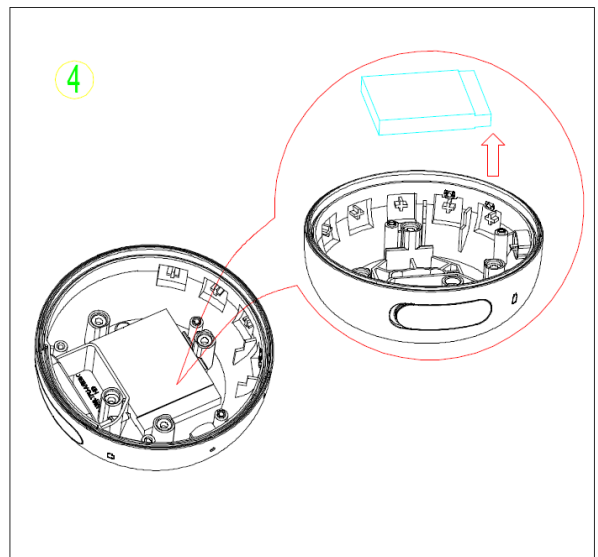
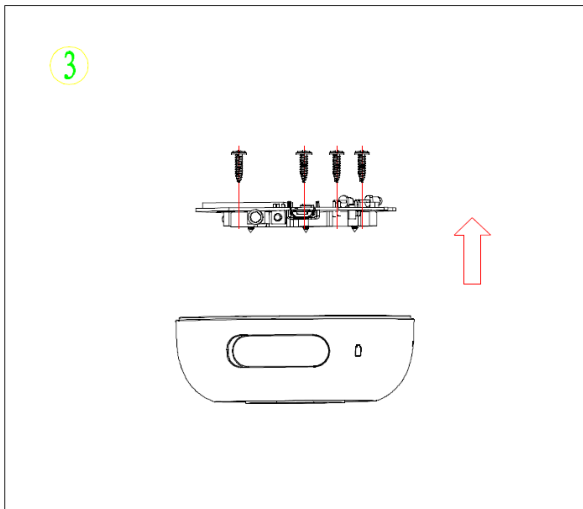
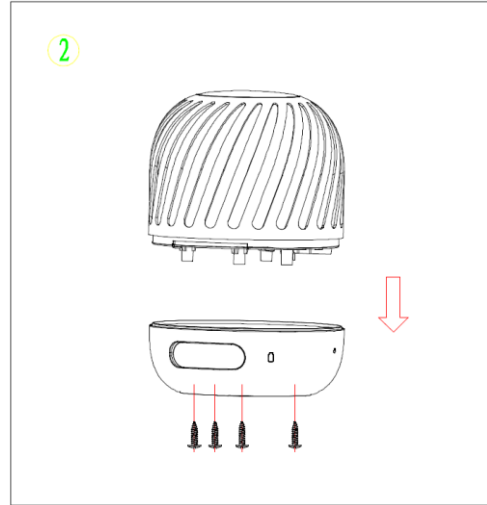
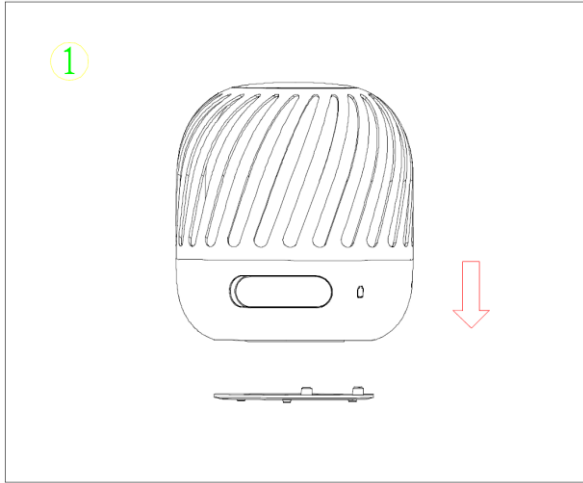


# 12. RK8

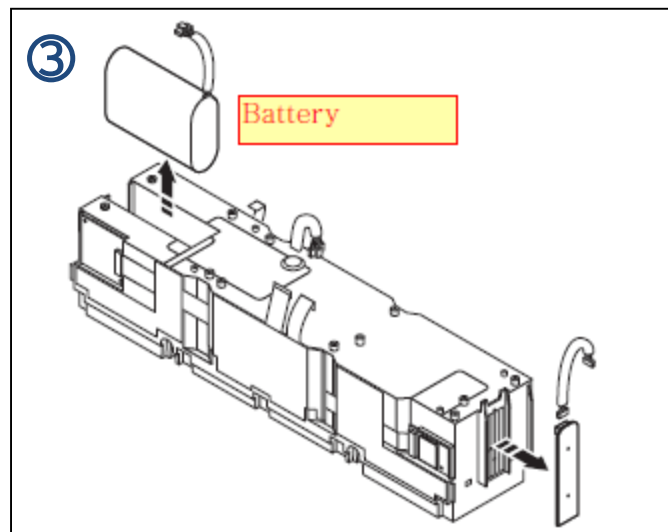
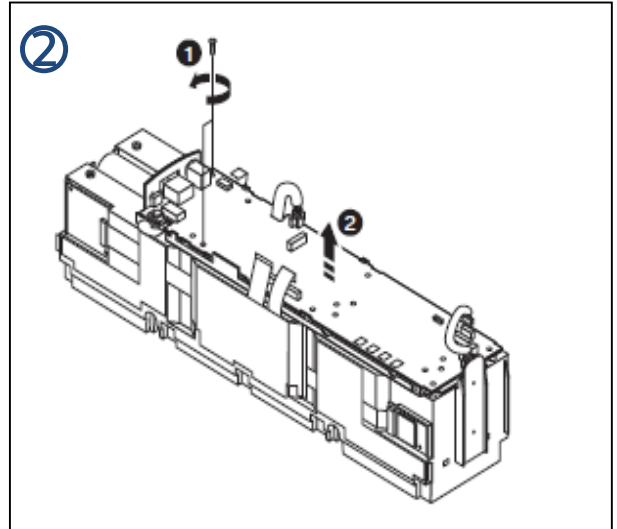
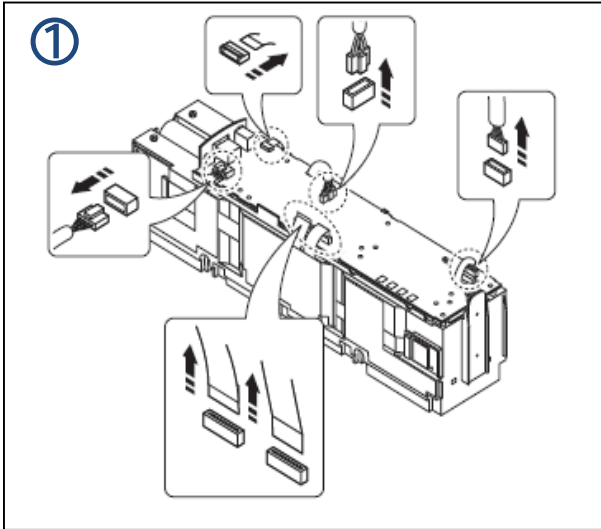




# 13. PJ2

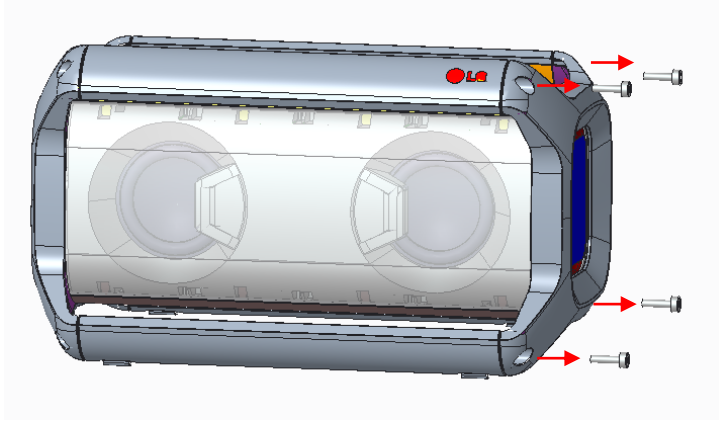


# 14. SJ7



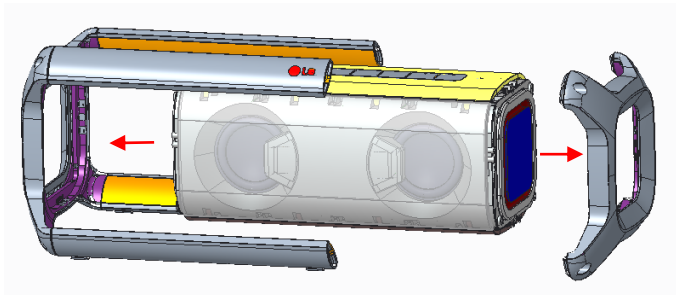
# 15. PK5

1



Remove Screw 4EA using Hexagon wrench

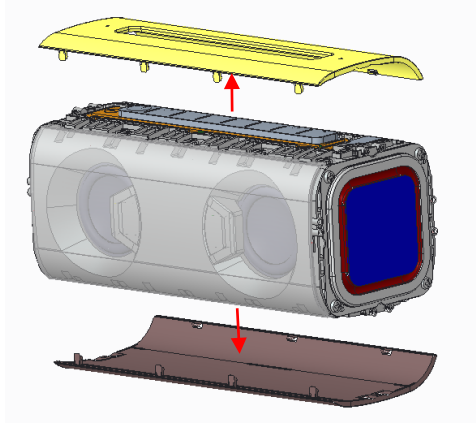
2



Remove the Side Cover on both sides

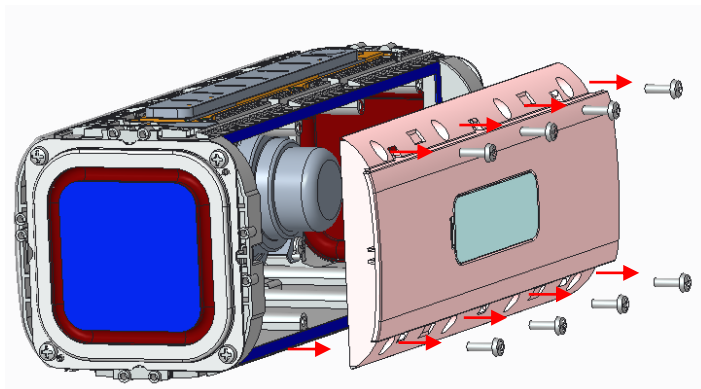
# 15. PK5

3



Remove Cover Top and Bottom

4

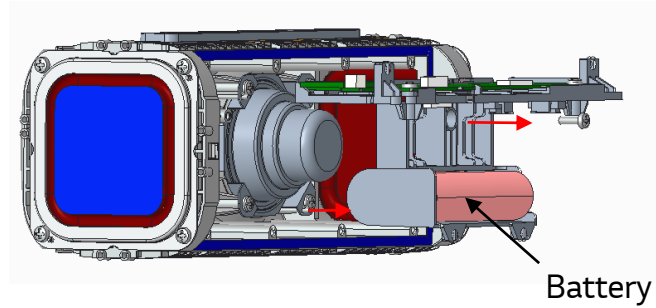


Remove Screw 8EA using '+' wrench  
And Remove Cover Rear

# 15. PK5

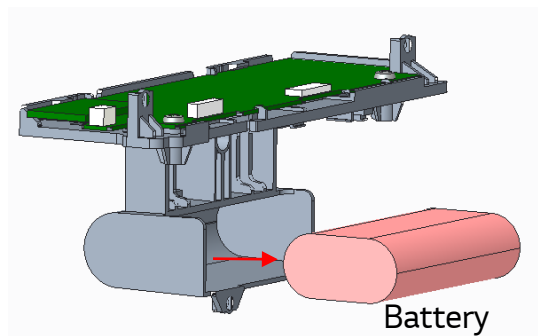
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5



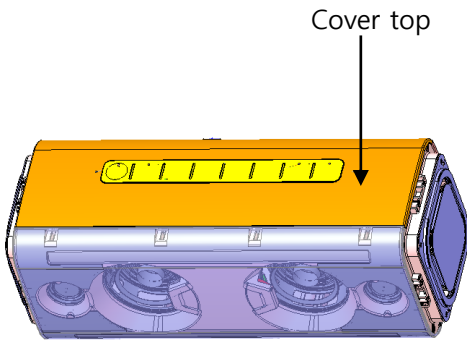
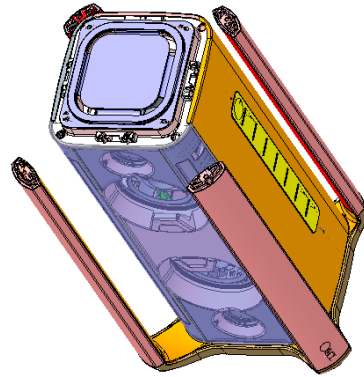
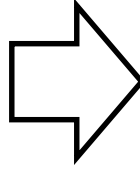
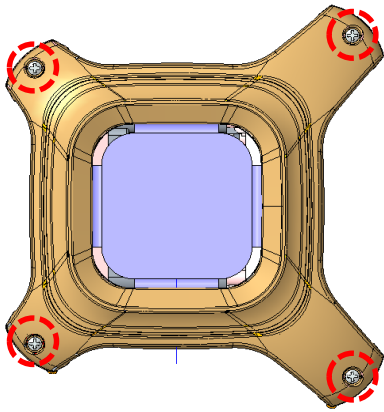
Remove Screw 1EA using '+' wrench  
And Remove Holder Battery

6

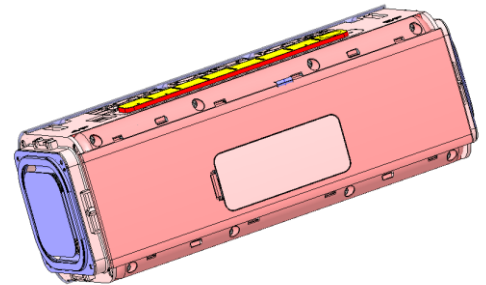
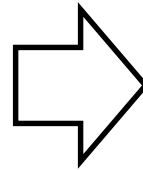


Remove the Battery

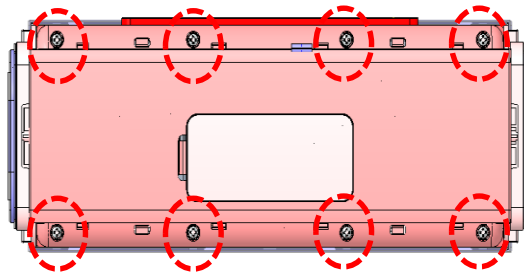
# 16. PK7



Cover Handle Assy Disassembly

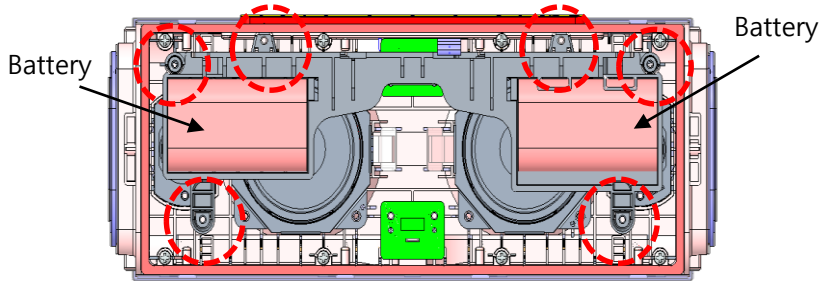


Cover top/Bottom disassembly

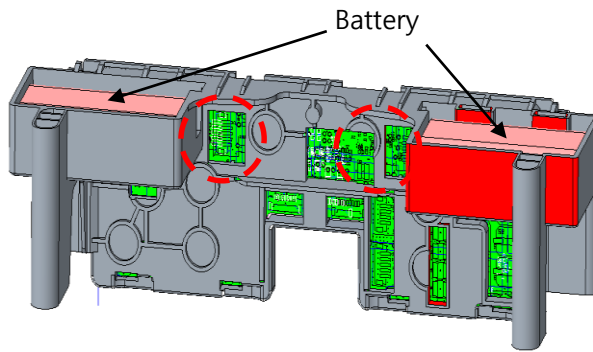


After Screw 8EA Releasing, Panel Rear assy disassembly

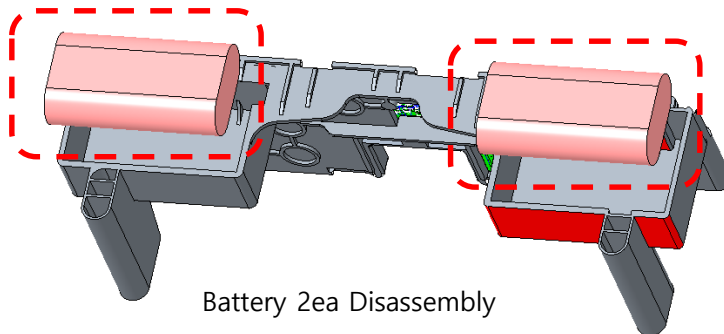
# 16. PK7



After Screw 6EA Releasing, pcb main assy disassembly



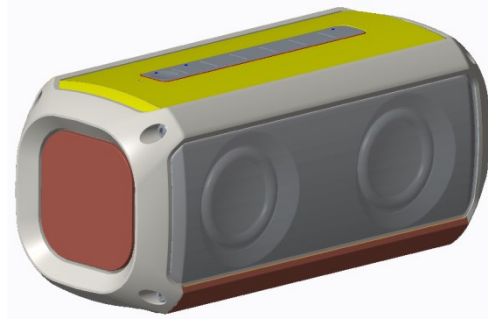
Connector 2ea disassembly is possible when battery is disassembled.



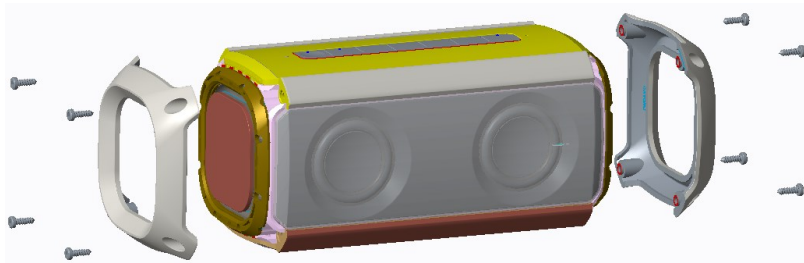


# 17. PK3

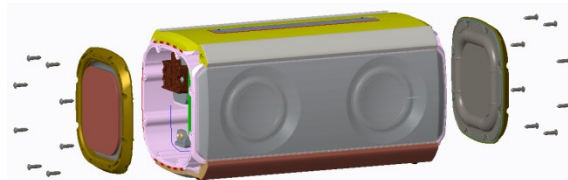
---



Remove Screw using hex  
agon wrench

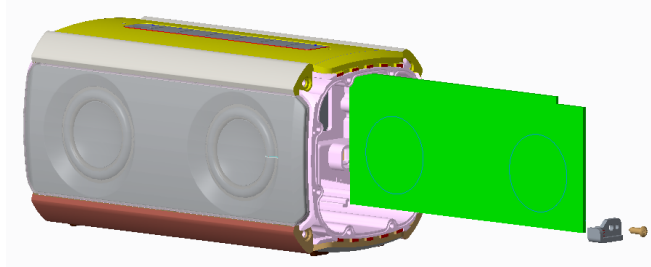


Remove the side cover o  
n both sides

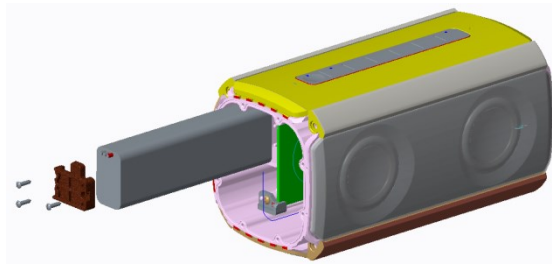


Remove passive on both  
sides

# 17. PK3

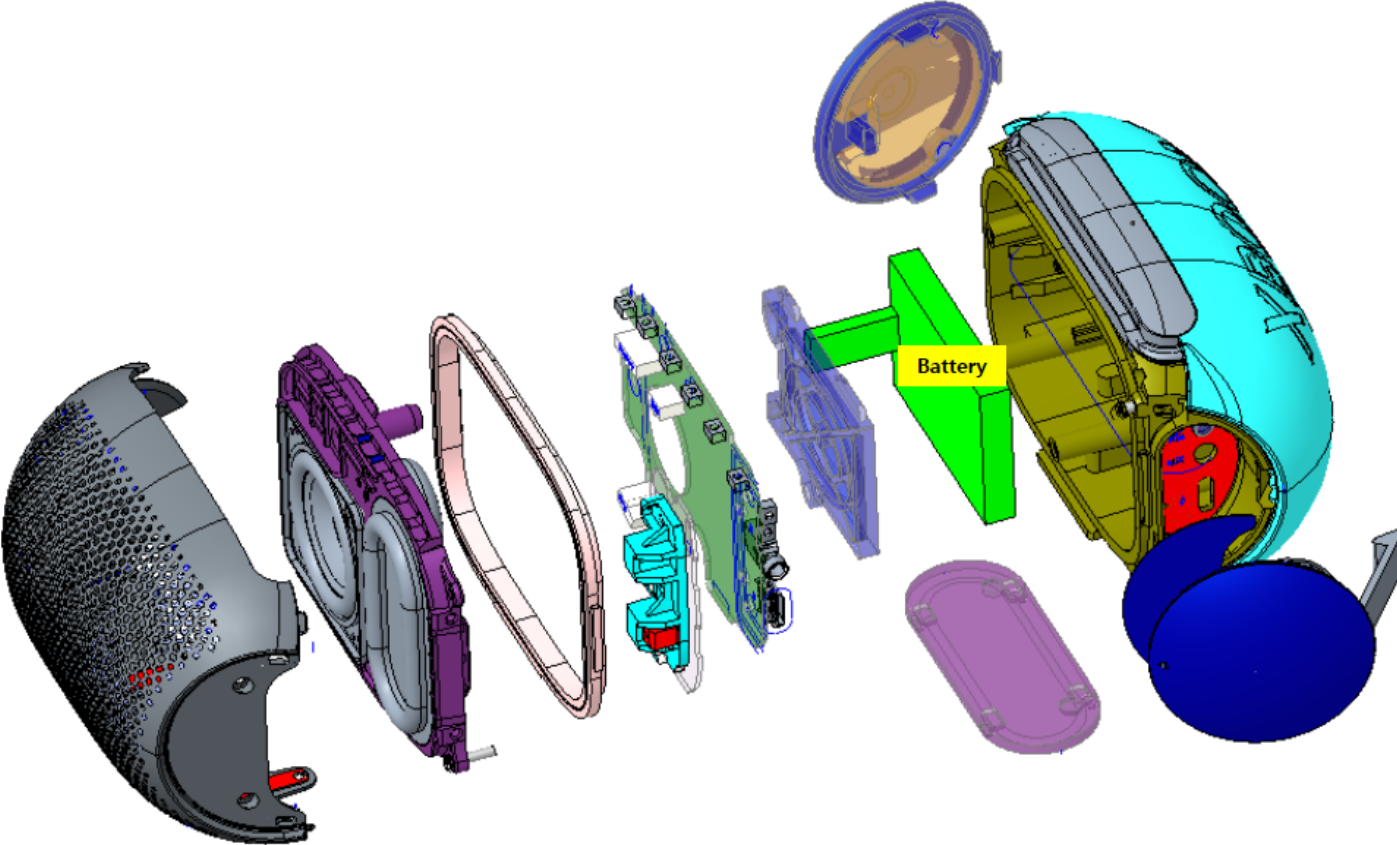


Remove main PCBA



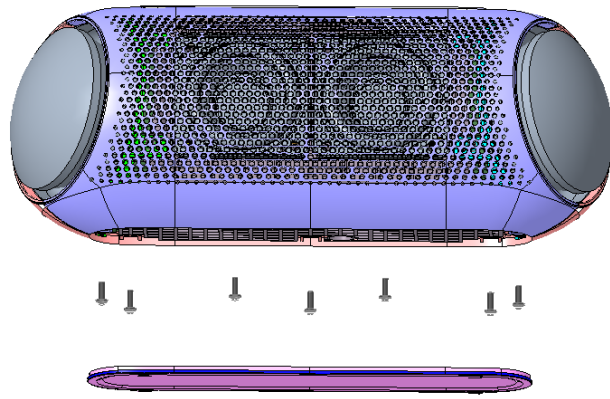
Remove Battery

# 18. PL2

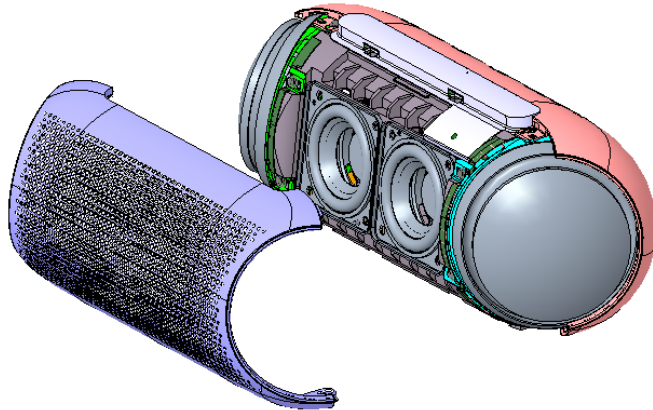


# 19. PL5

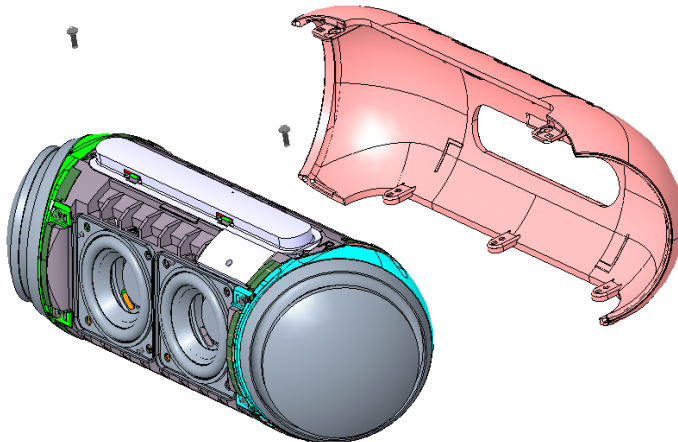
1



2

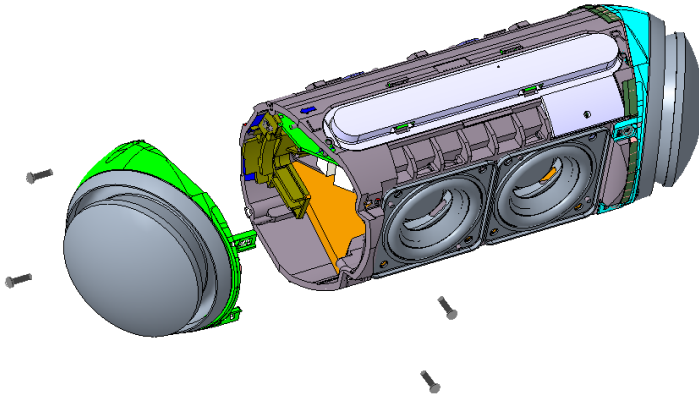


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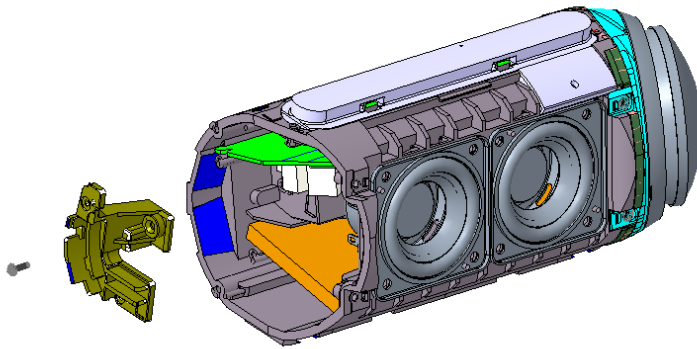


# 19. PL5

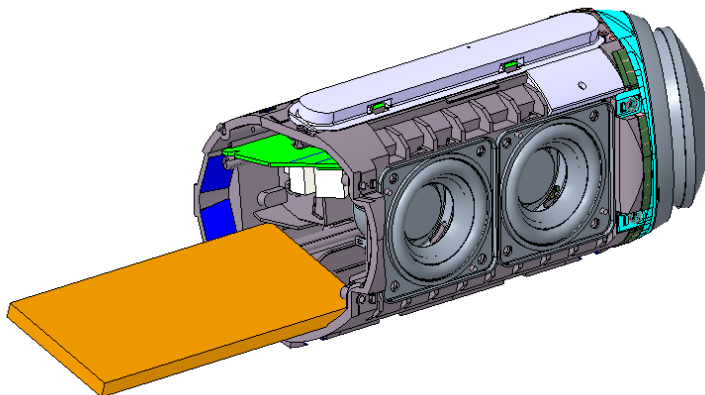
4



5

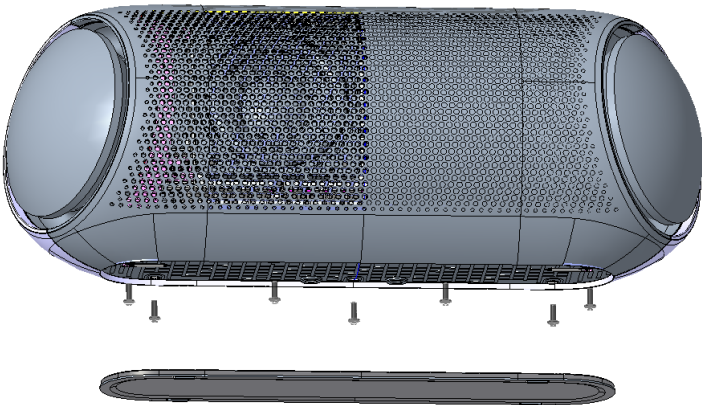


6

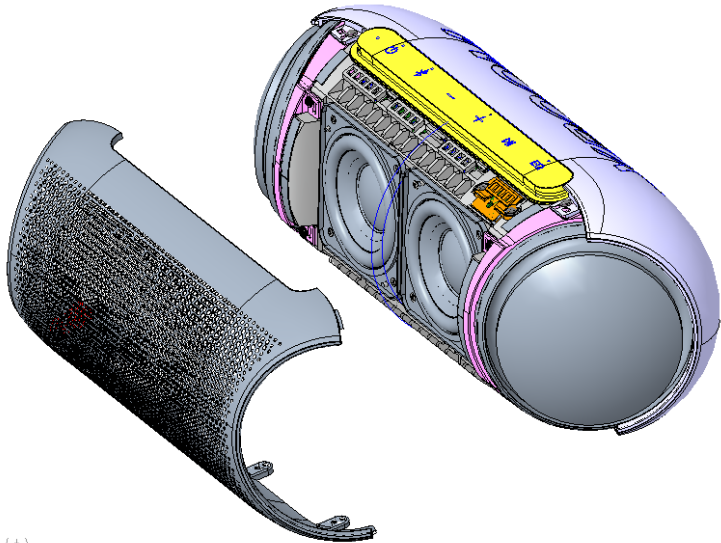


# 20. PL7

1



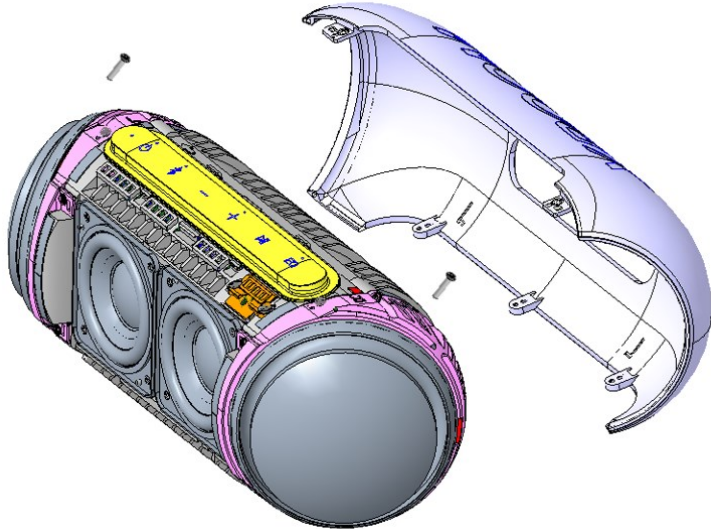
2



0001(+)

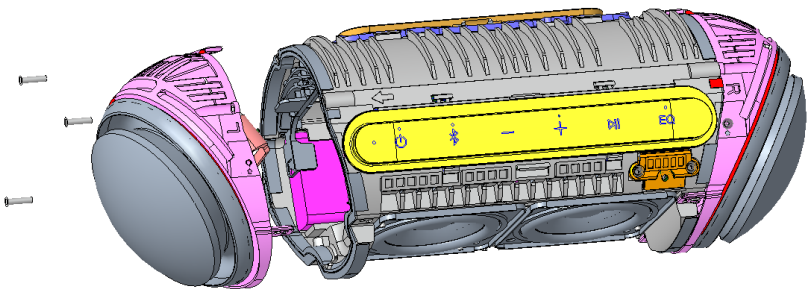


3

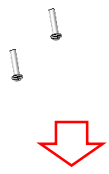


# 20. PL7

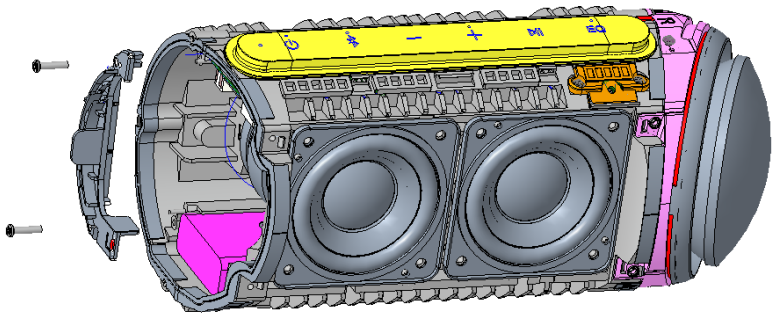
4



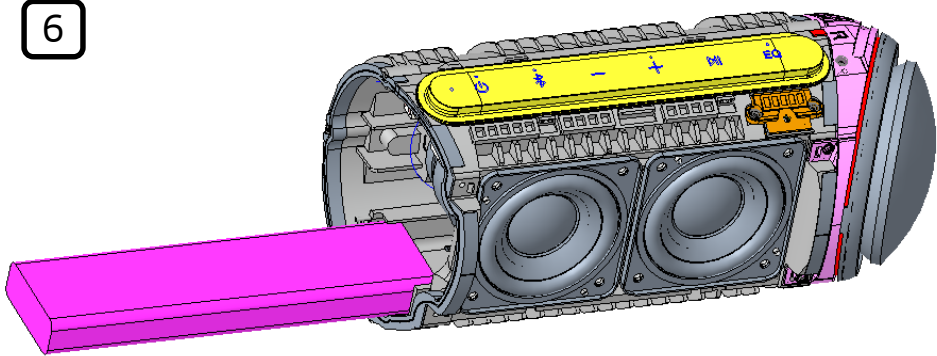
• State:EXP0001(+)



5



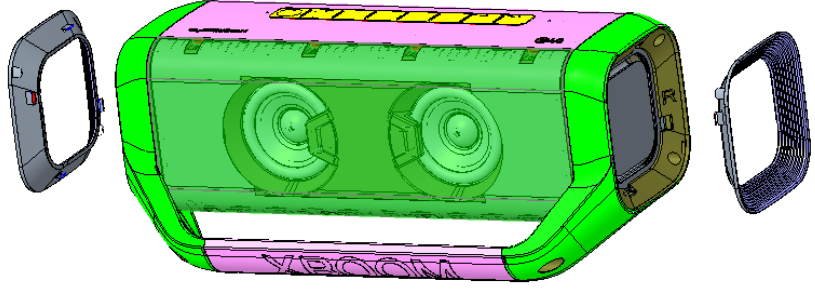
6



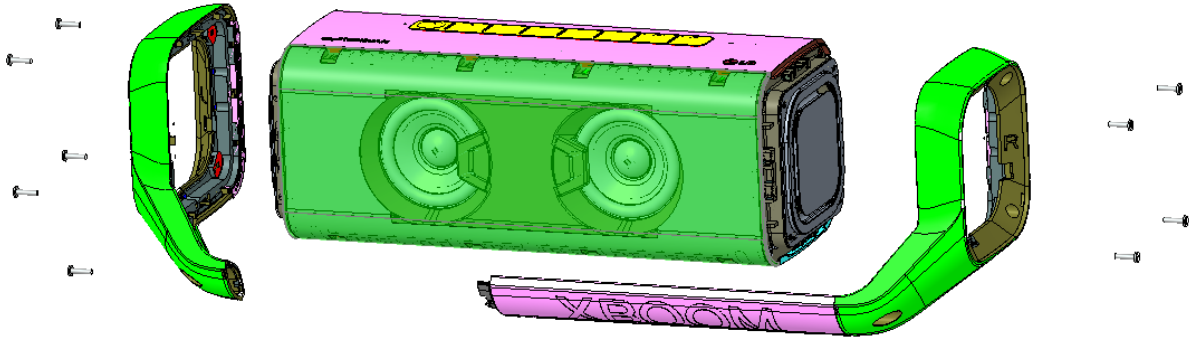


# 21. PN5 / PN7

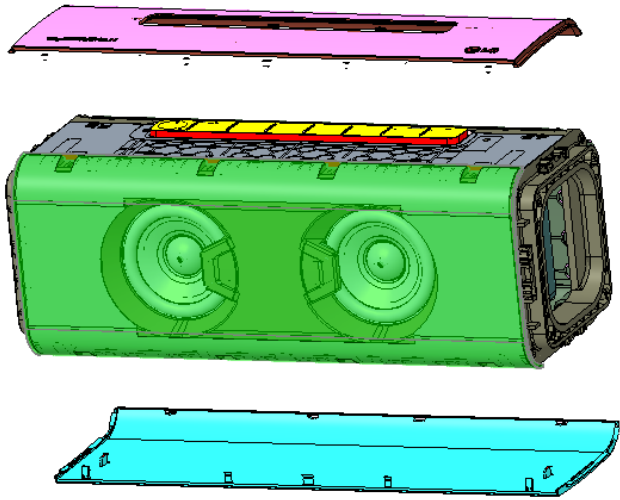
1



2

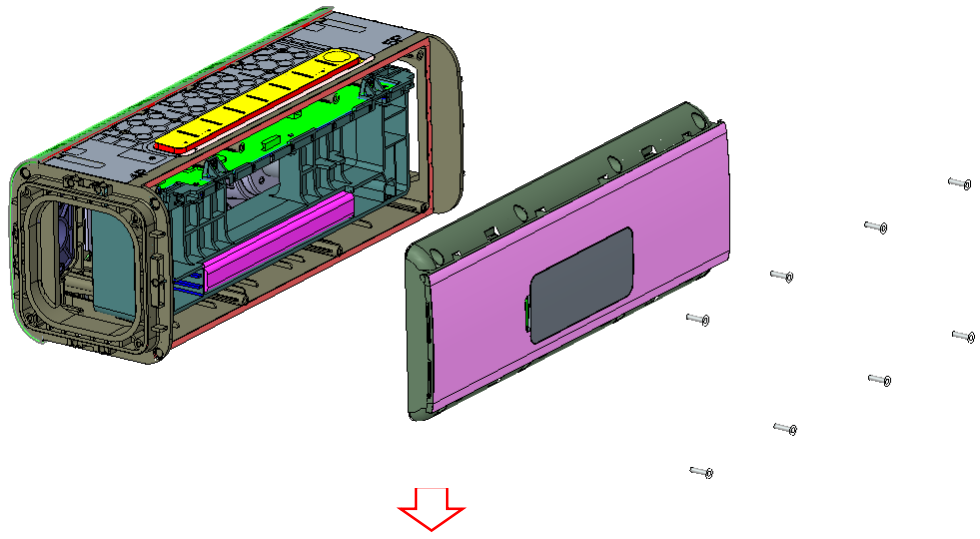


3

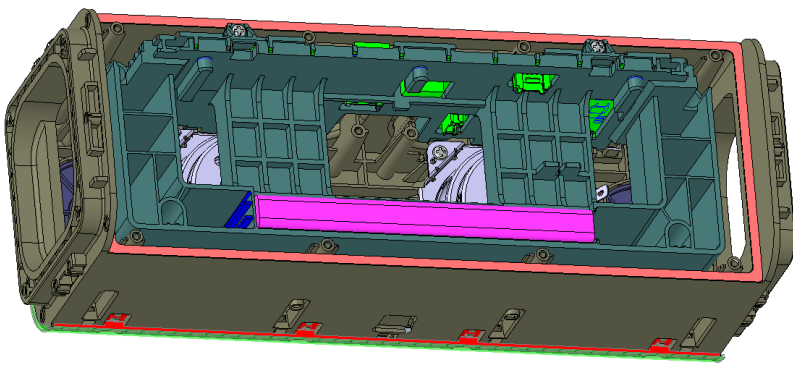


# 21. PN5 / PN7

4

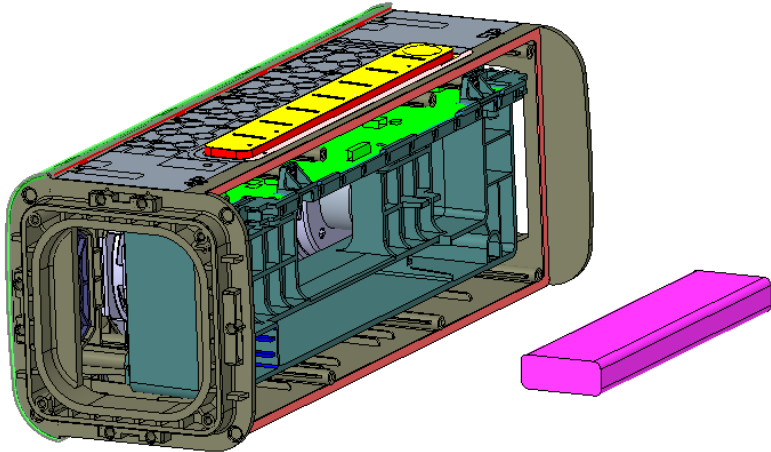


5



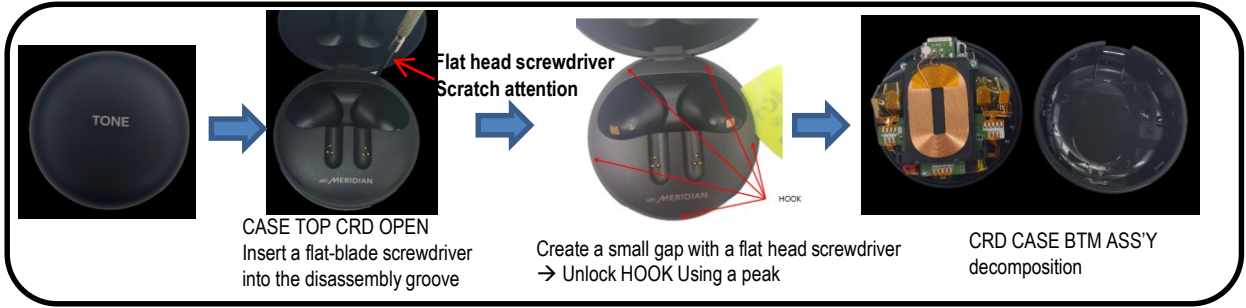
Open battery connector

6

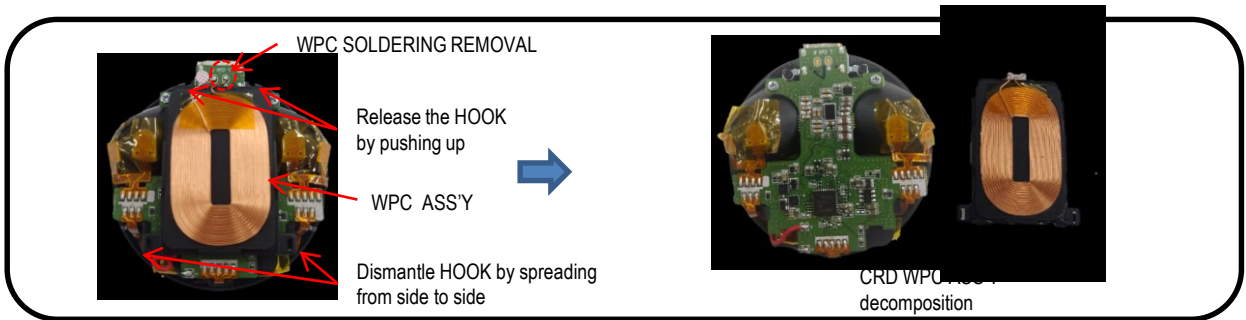


Battery disassembly

# 22. HBS- FN6/FN4



1. Open CASE TOP CRD → Using a flat head screwdriver → Open the gap of CASE BTM INNER  
→ Unlock HOOK Using a peak → CRD CASE BTM ASS'Y decomposition.



2. Remove soldering of WPC using ironing machine → Open the bottom HOOK of the BRACKET PCB CRD  
→ Push the top HOOK → WPC and PBA decomposition.

Item 2 are only HBS-FN6 models.

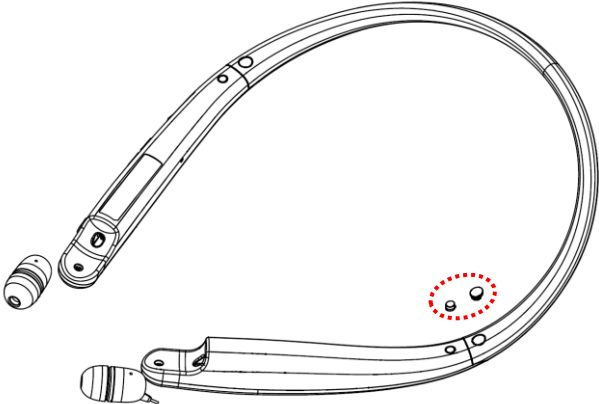


3. Remove 5 places of FPCB and BATTERY SOLDERING using ironing machine. Item 3 are only HBS-FN6 models.

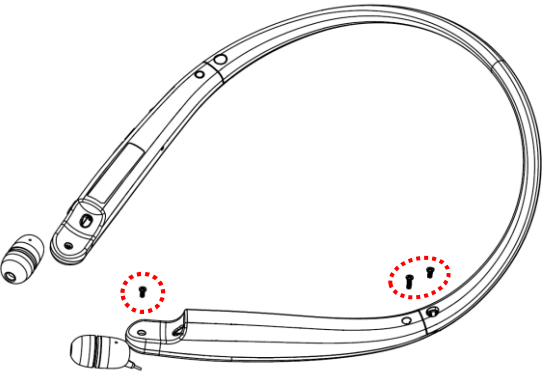
4. Decomposition of two places of TAPE UVC → After releasing two SCREW → Decomposes PBA and BATTERY.  
(TAPE UVC should not be reused when assembling. Use new tape.)

# 23. HBS- SL5/SL6S

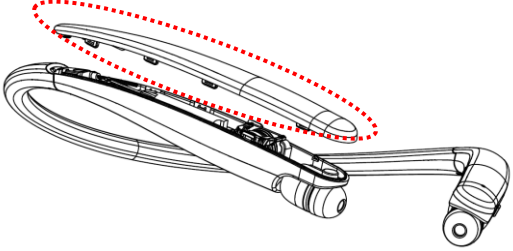
1. Disassemble the Cap Screw



2. Disassemble the Screw (3point)

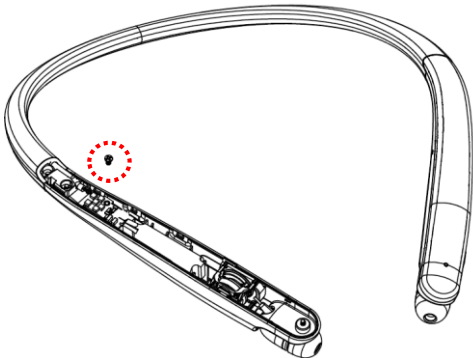


3. Disassemble the case top Right

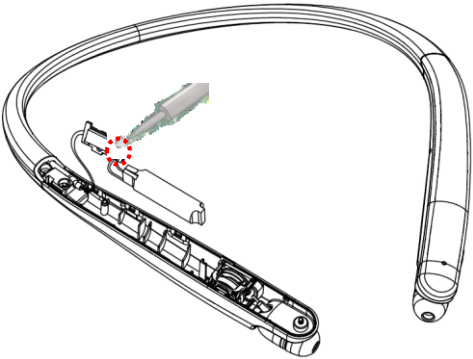


# 23. HBS- SL5/SL6S

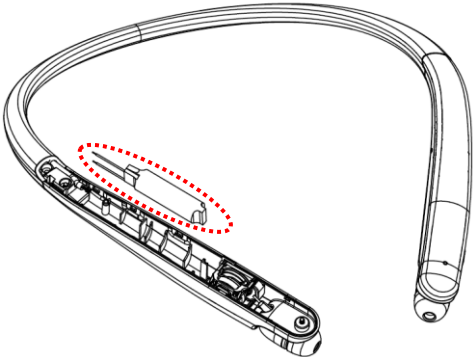
4. Disassemble the Screw (1 point)



5. Remove soldering of Battery using a pharynx

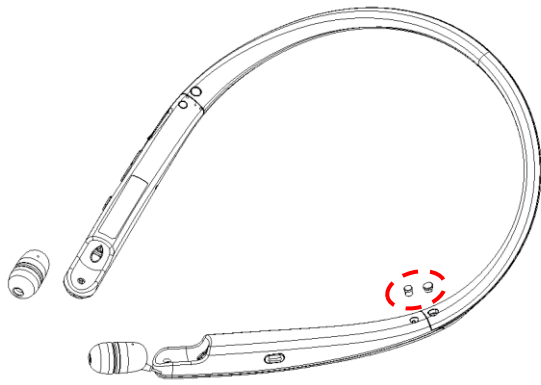


6. Disassemble the Battery

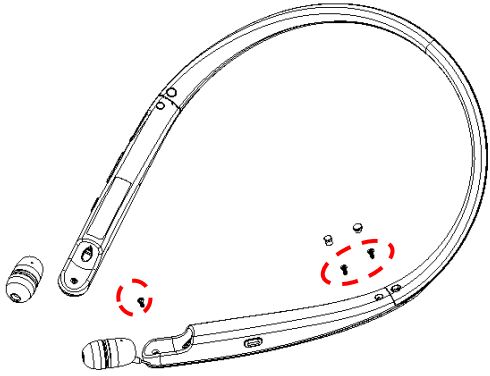


# 24. HBS- XL7

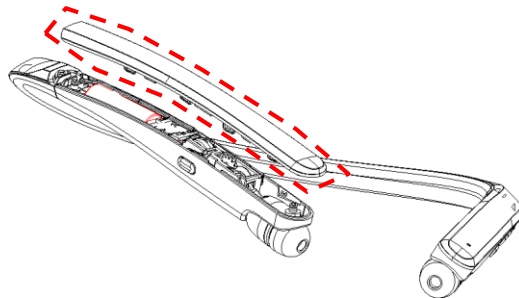
1. Disassemble the Cap Screw



2. Disassemble the Screw (3point)

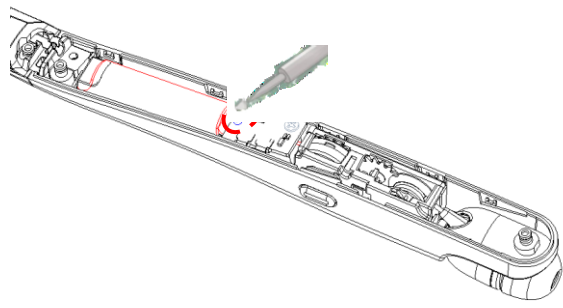


3. Disassemble the case top Right

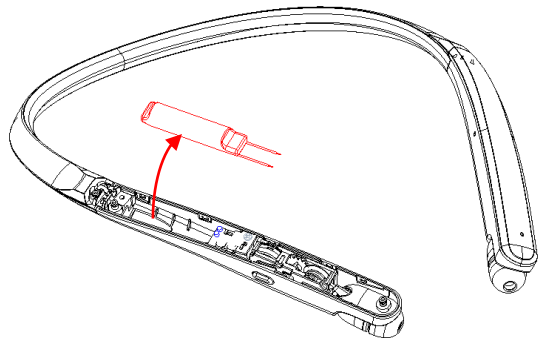


# 24. HBS- XL7

4. Remove soldering of Battery using a pharynx



5. Disassemble the Battery





## 25. PN1

### DISASSEMBLY INSTRUCTIONS

- 1) Gently lift up the four edge of the Front Cover with a flat head screwdriver and remove the Front Cover.
- 2) Remove the (following) six screws securing the Speaker Assembly.
- 3) After lifting the Speaker Assembly, heat the bonded connector with a heat gun and then disconnect the speaker cable.
- 4) Remove the Speaker Assembly.  
\*Rubber Ring need to change new part for waterproof, if assembled it over 3 times.



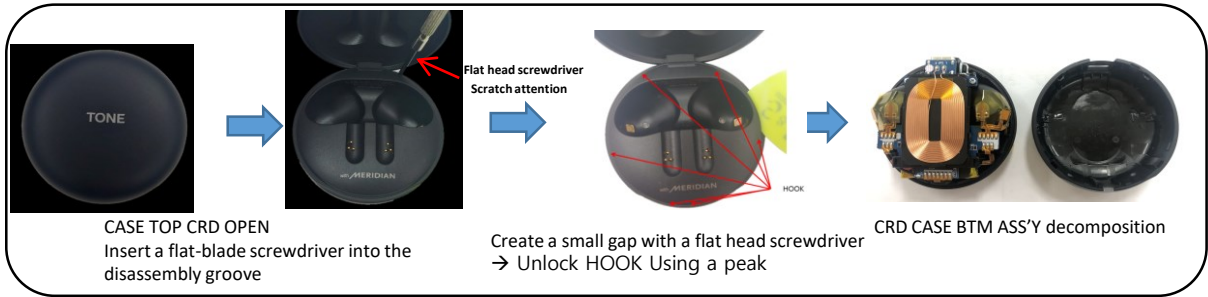
- 5) Remove the three screws securing the Main PCB Assembly.
- 6) Remove the Holder.
- 7) After heating the bonded connectors with a heat gun, disconnect the cables.
- 8) Remove the Main PCB Assembly.



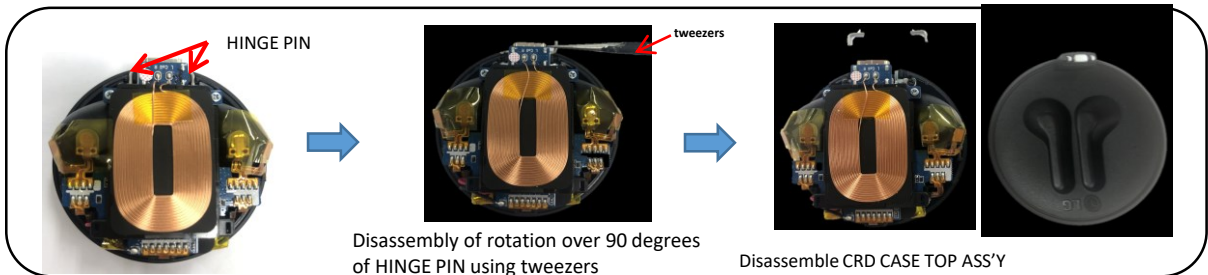
- 9) Apply a few drops of isopropyl alcohol (over 90%) to the edge of the Battery.
- 10) Wait 5 minutes for the adhesive to weaken, and then remove the Battery.



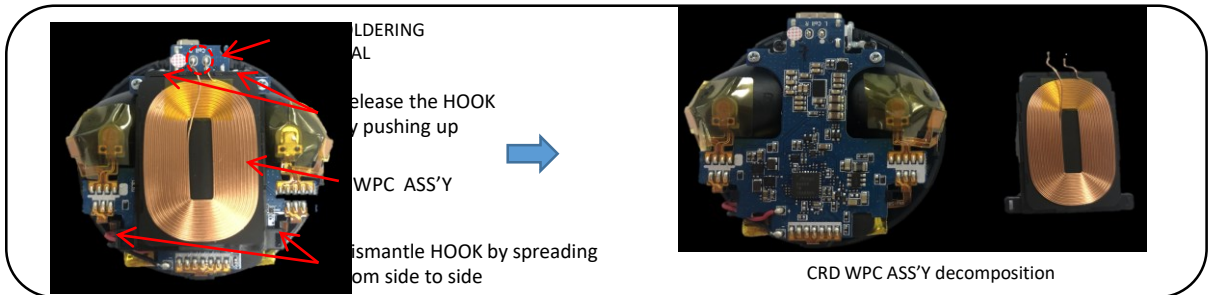
# 26. HBS-FN7



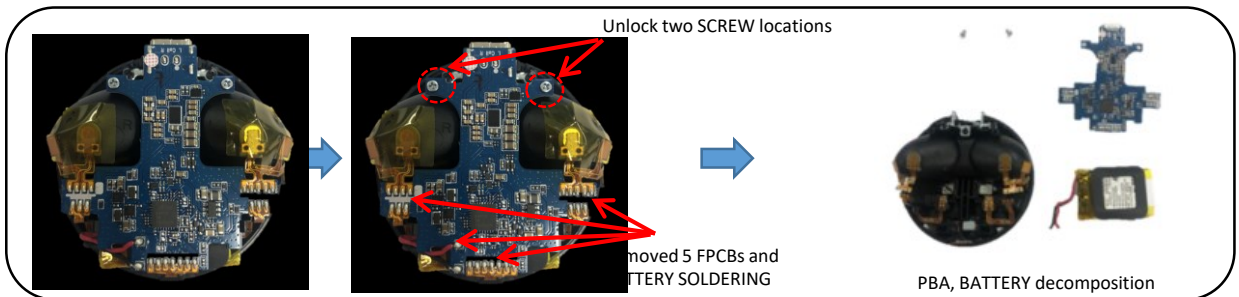
1. Open CASE TOP CRD → Using a flat head screwdriver → Open the gap of CASE BTM INNER  
→ Unlock HOOK Using a peak → CRD CASE BTM ASS'Y decomposition.



2. Disassemble the HINGE PIN using tweezers → Disassemble CRD CASE TOP ASS'Y



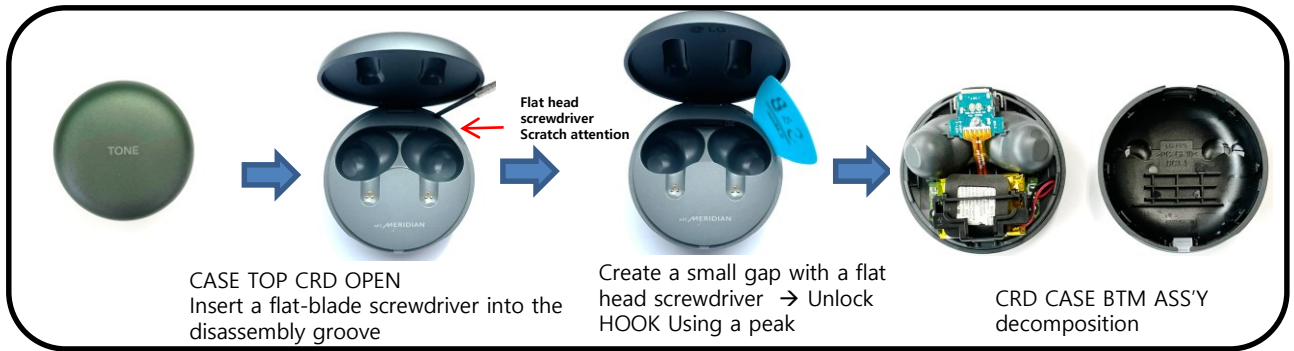
3. Remove soldering of WPC using ironing machine → Open the bottom HOOK of the BRACKET PCB CRD  
→ Push the top HOOK → WPC and PBA decomposition.



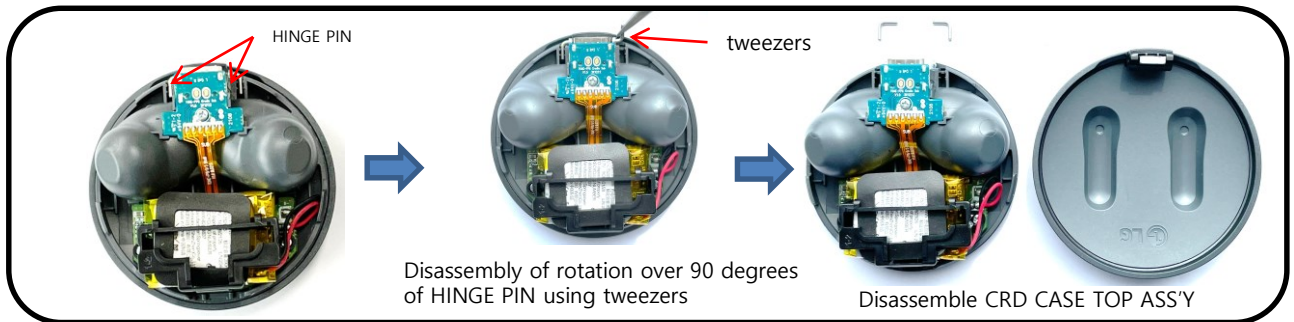
4. Remove 5 places of FPCB and BATTERY SOLDERING using ironing machine.
5. Decomposition of two places of TAPE UVC → After releasing two SCREW → Decomposes PBA and BATTERY.  
(TAPE UVC should not be reused when assembling. Use new tape.)

# 27. TONE-FP5

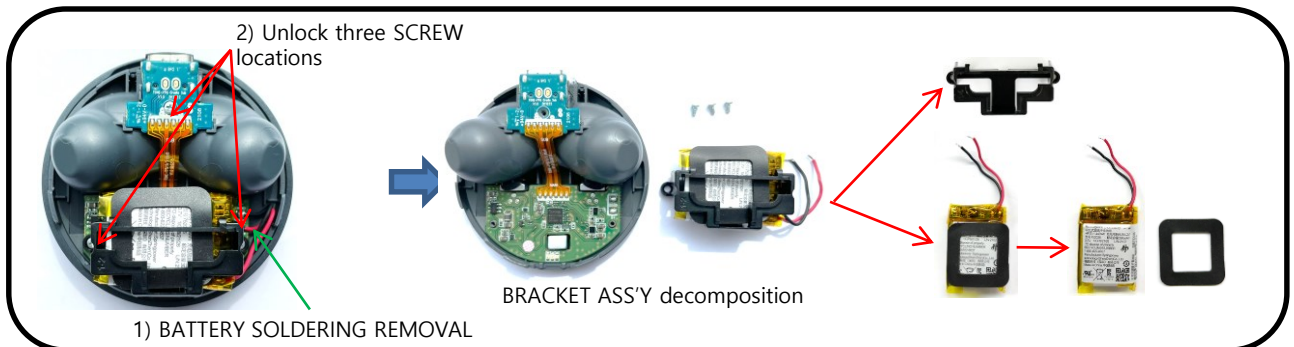
- TONE-FP5, TONE-FP5W, TONE-FP5E
- TONE-DFP5, TONE-DFP5W, TONE-DFP5E
- TONE-UFP5, TONE-UFP5W, TONE-UFP5E
- TONE-FP5A, TONE-FP5WA, TONE-FP5EA



1. Open CASE TOP CRD → Using a flat head screwdriver → Open the gap of CASE BTM INNER → Unlock HOOK Using a peak → CRD CASE BTM ASS'Y decomposition.



2. Disassemble the HINGE PIN using tweezers → Disassemble CRD CASE TOP ASS'Y

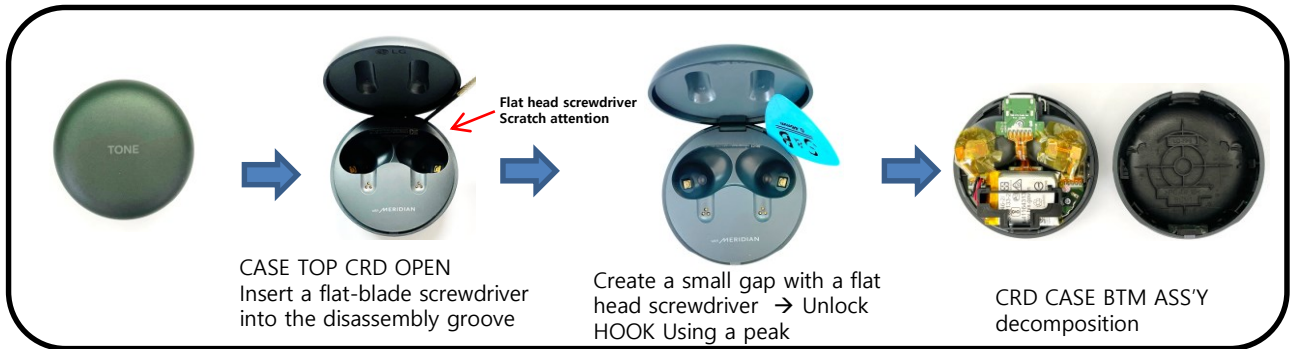


3. Remove BATTERY SOLDERING using ironing machine → Releasing three SCREW → BRACKET PCB ASS'Y and PBA decomposition → BRACKET PCB and BATTERY ASS'Y disassembly → BATTERY and TAPE CRD CUSHION BATTERY decomposition

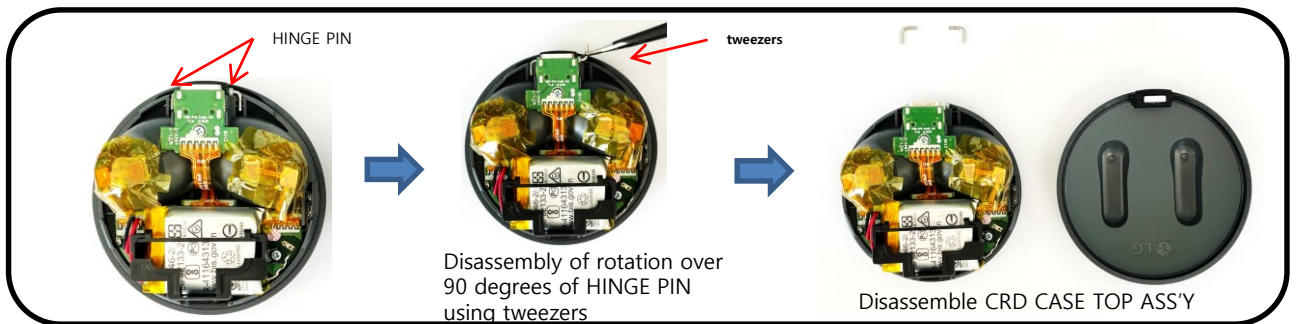


# 28. TONE-FP9

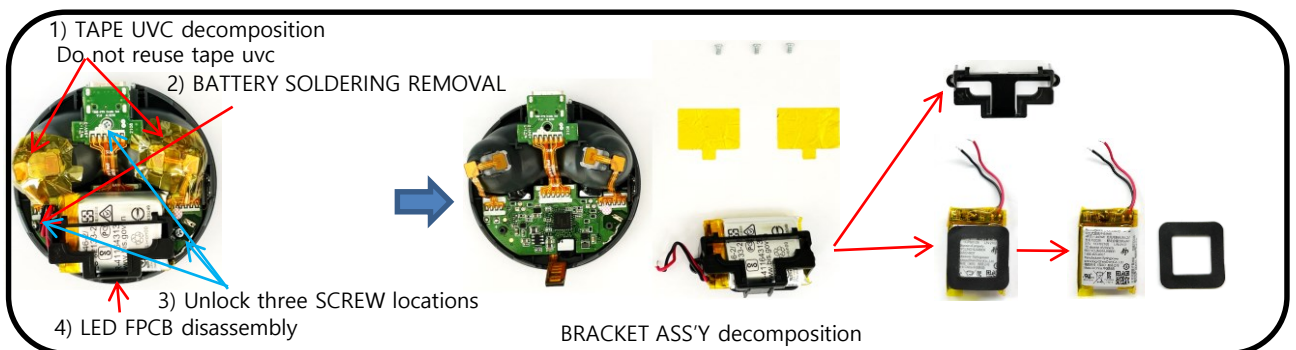
- TONE-FP9, TONE-FP9W, TONE-FP9E
- TONE-DFP9, TONE-DFP9W, TONE-DFP9E
- TONE-UFP9, TONE-UFP9W, TONE-UFP9E
- TONE-FP9A, TONE-FP9WA, TONE-FP9EA



1. Open CASE TOP CRD → Using a flat head screwdriver → Open the gap of CASE BTM INNER → Unlock HOOK Using a peak → CRD CASE BTM ASS'Y decomposition.



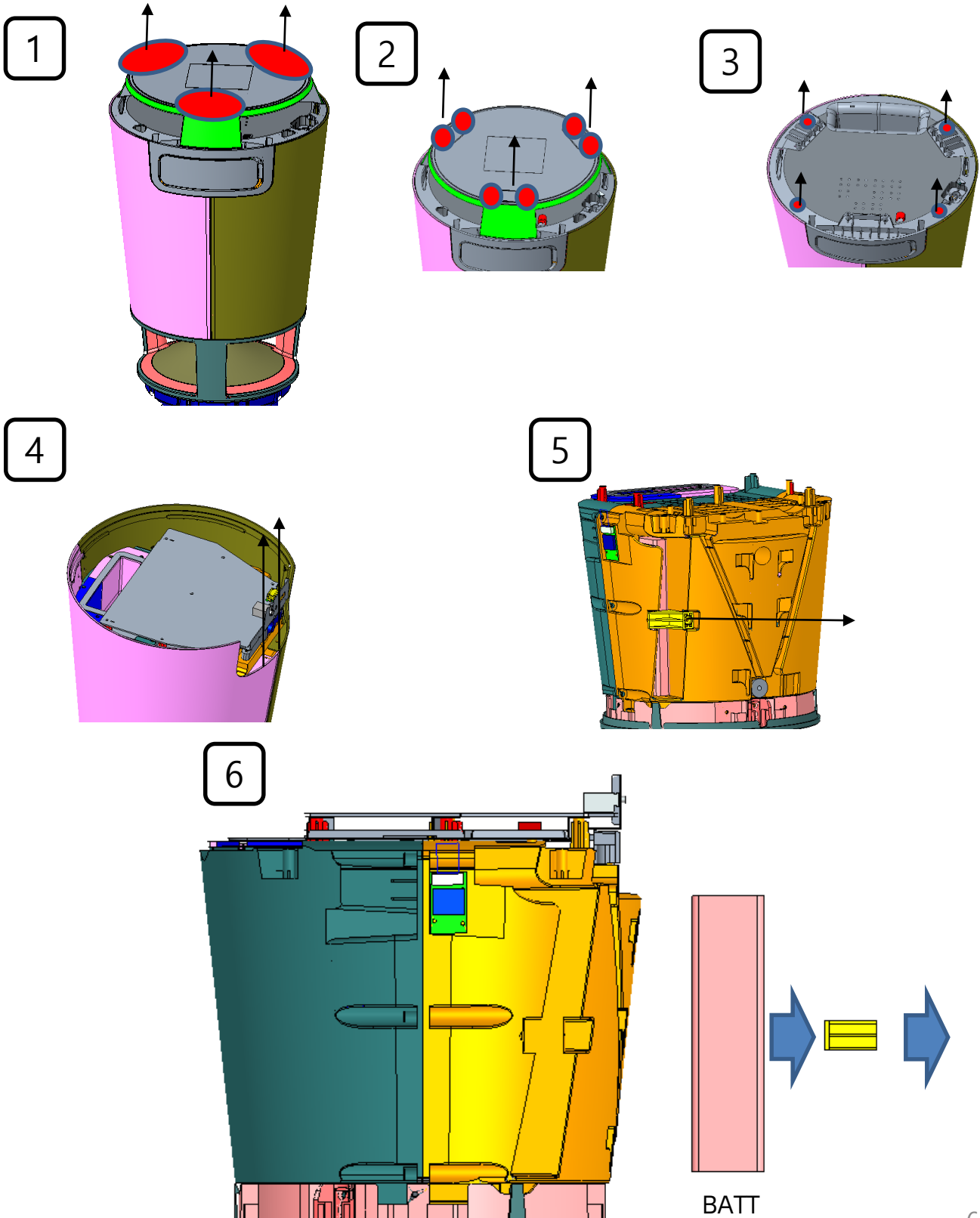
2. Disassemble the HINGE PIN using tweezers → Disassemble CRD CASE TOP ASS'Y



3. Decomposition of two places of TAPE UVC → Remove BATTERY SOLDERING using ironing machine.  
 → After releasing three SCREW → LED FPCB disassembly → BRACKET PCB ASS'Y disassembly → BRACKET PCB and BATTERY ASS'Y disassembly → BATTERY and TAPE CRD CUSHION BATTERY decomposition

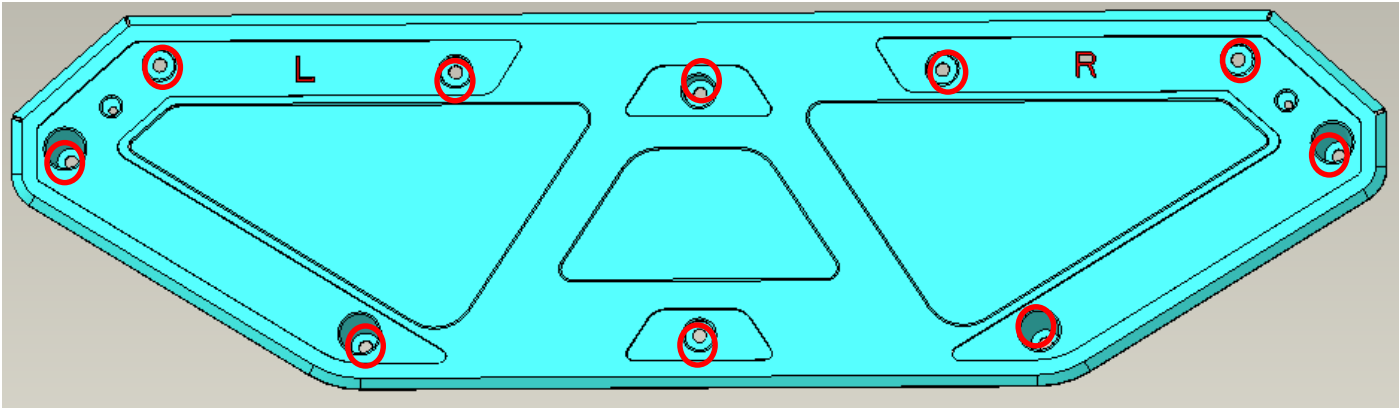
# 29. RP4 / RP4G / RP4B / RP4BE

- RP4C, RP4O, RP4N, RP4A, DRP4, DRP4G, DRP4B, DRP4BE

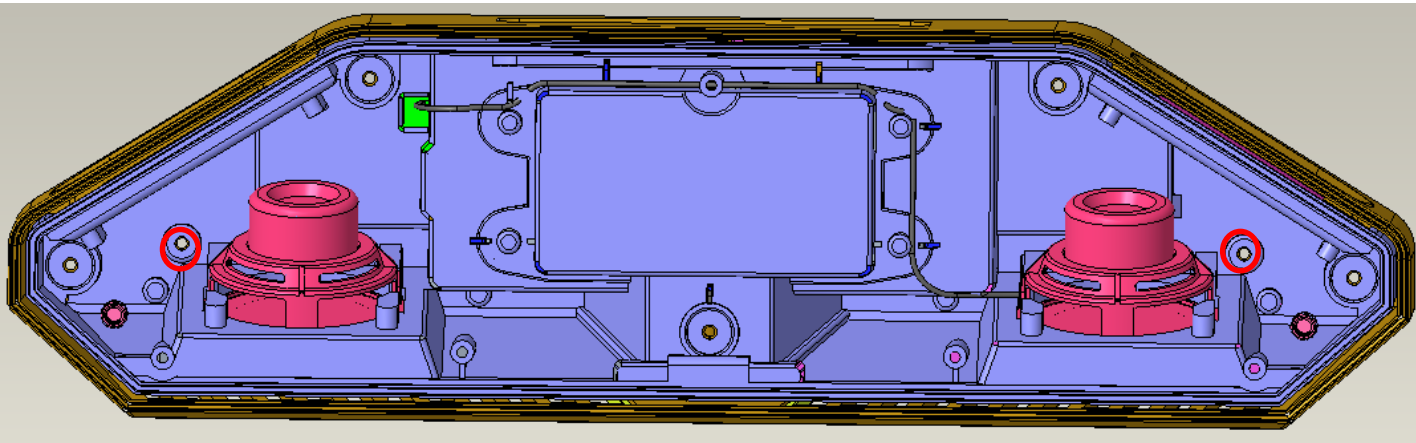


## 30. GP3 / DGP3

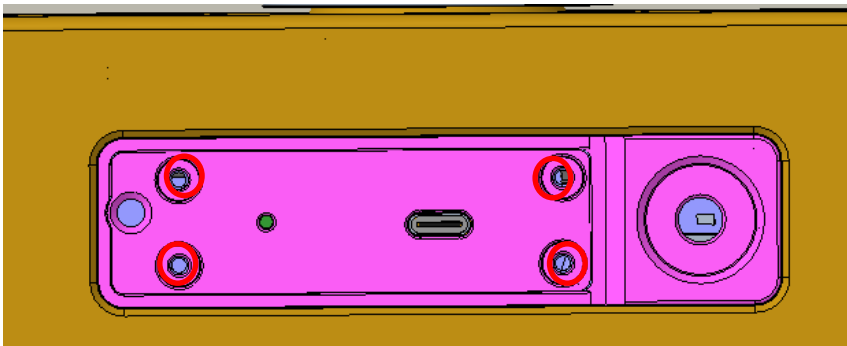
1) Disassemble of the SET) – Case Bottom



2) Disassemble of Case Chamber Assy & Cover Top Assy

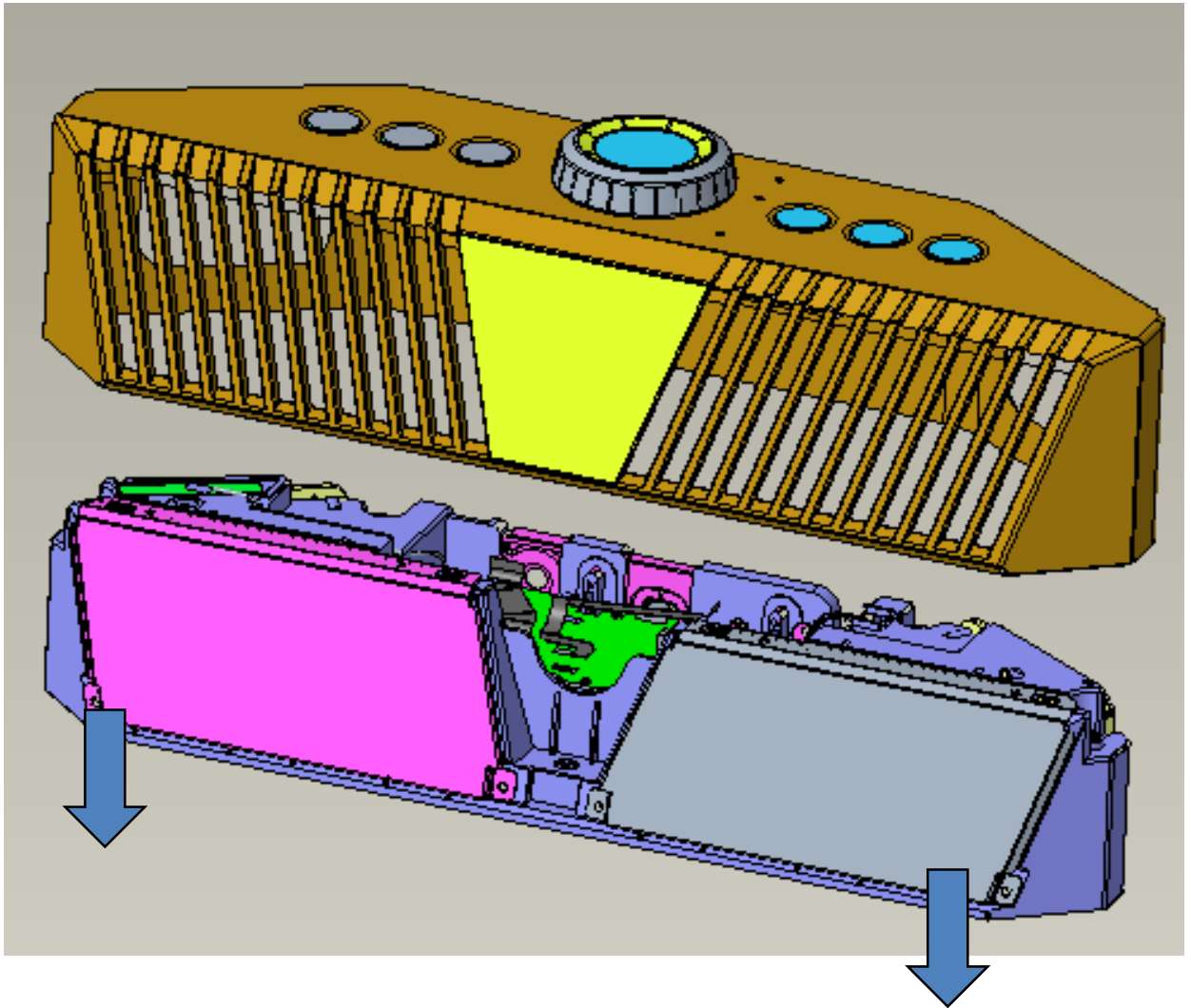


3) Disassemble rear Jack

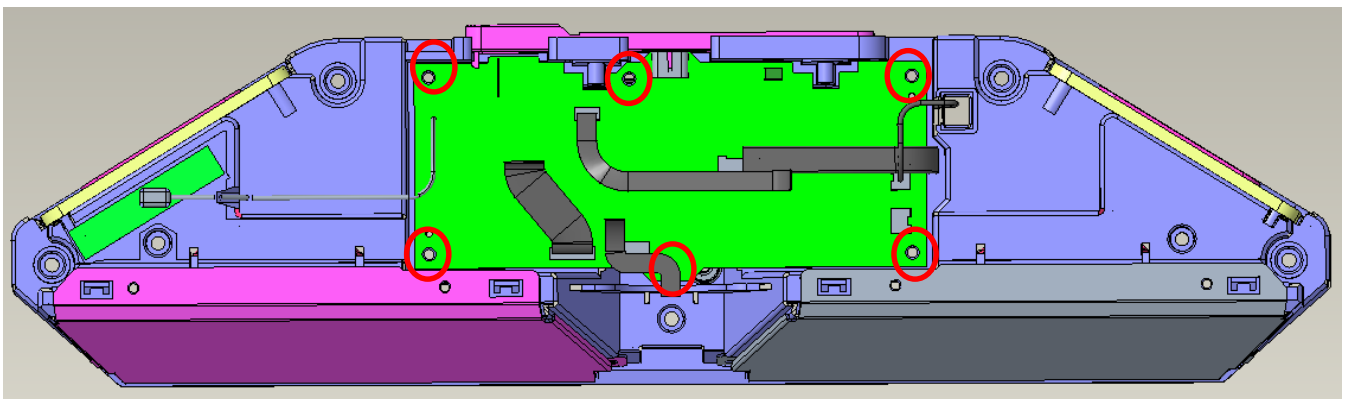


## 30. GP3 / DGP3

### 4) Disassemble of Case Chamber A'ssy & Cover Top A'ssy



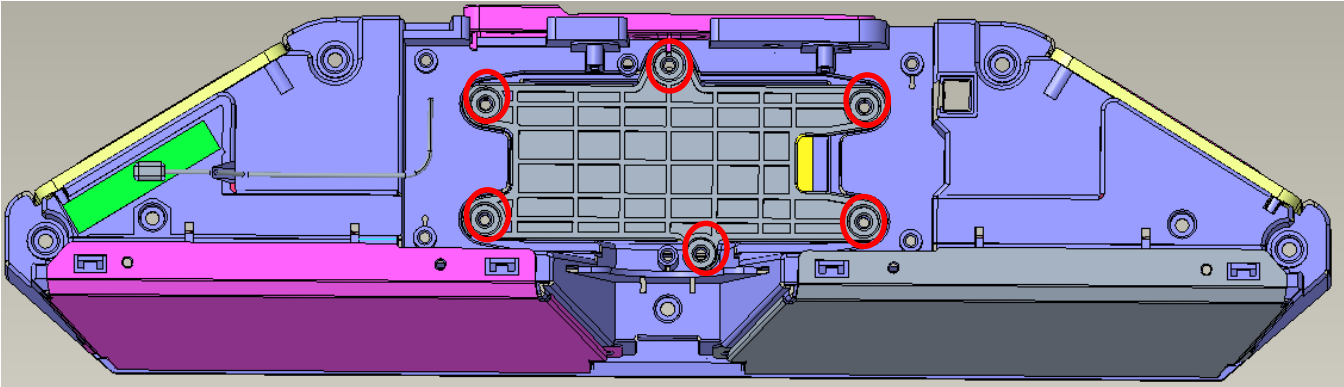
### 5) Disassemble of the Main PCB and Chamber



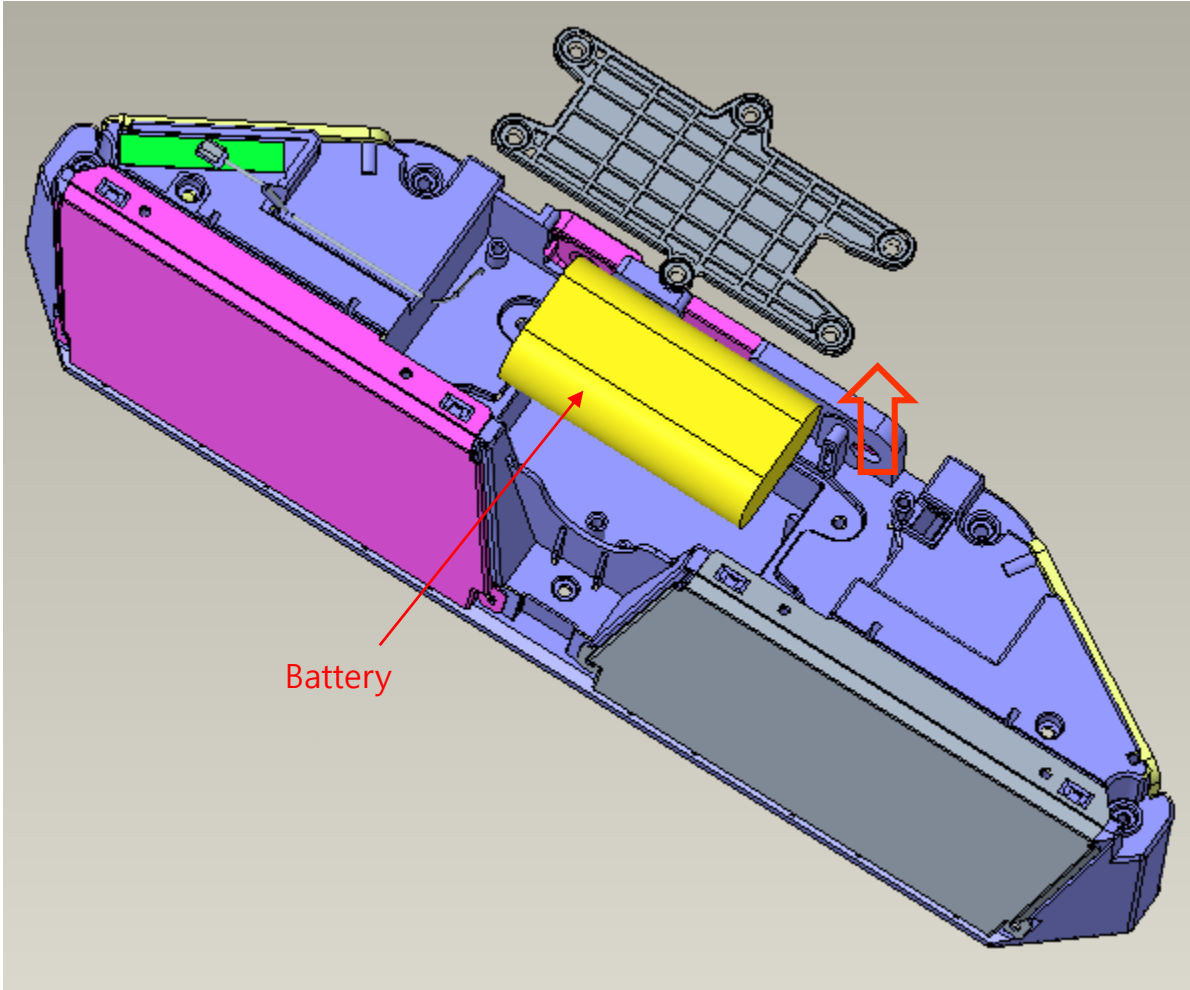


# 30. GP3 / DGP3

## 6) Disassemble of Battery Cover

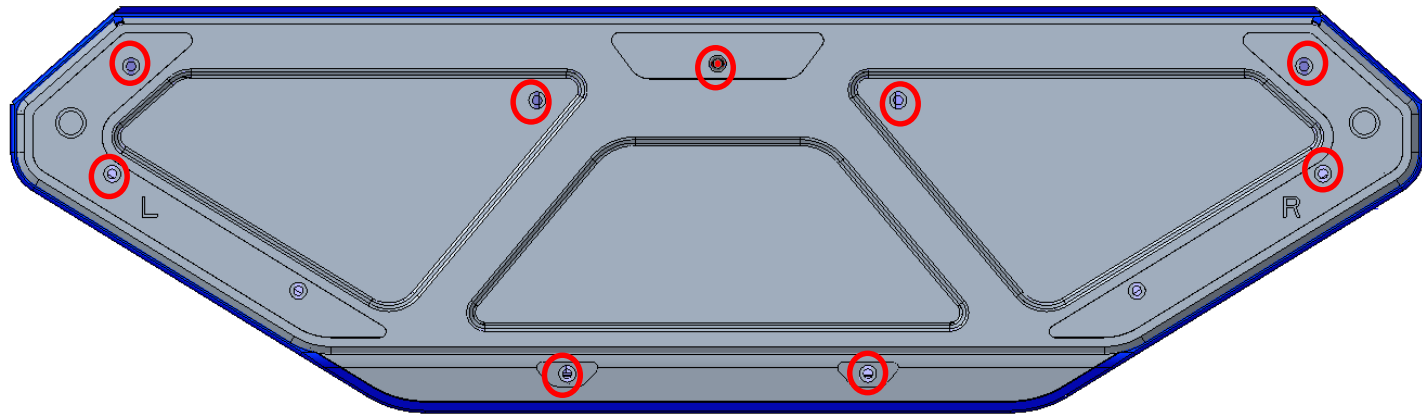


## 7) Disassemble of Battery

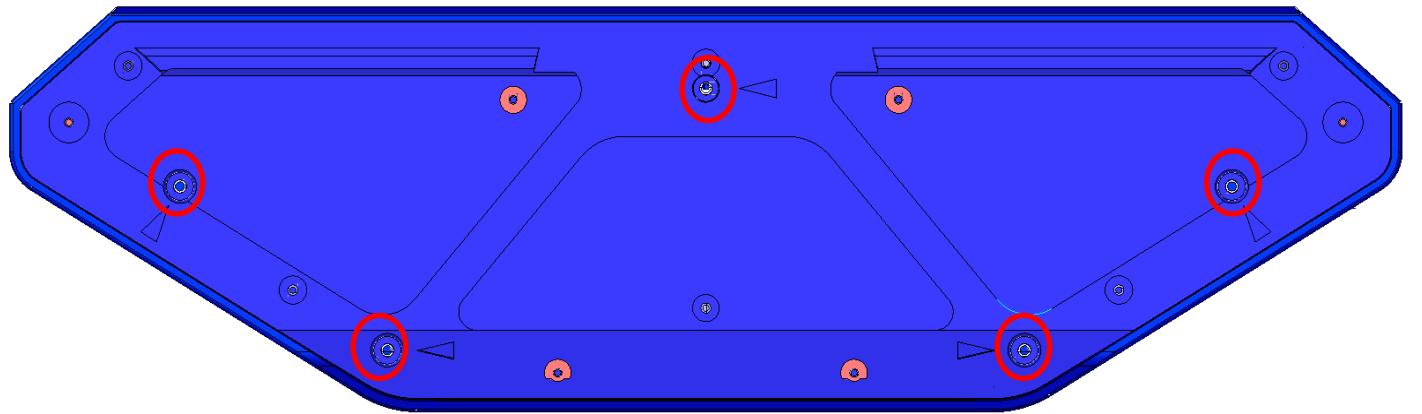


# 31. GP9 / DGP9

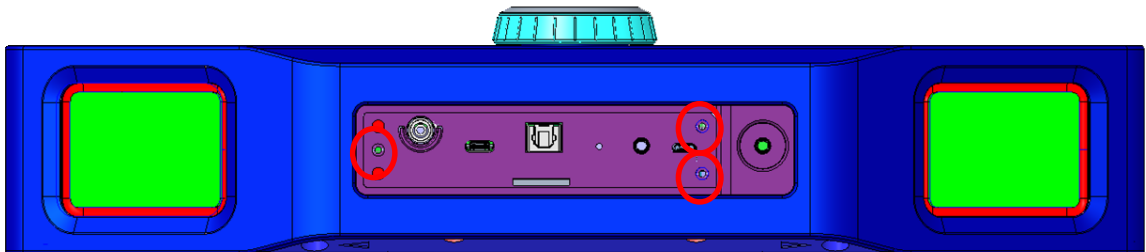
1) Disassemble of the SET) – Case Bottom



2) Disassemble of Case Chamber Assy & Cover Top Assy

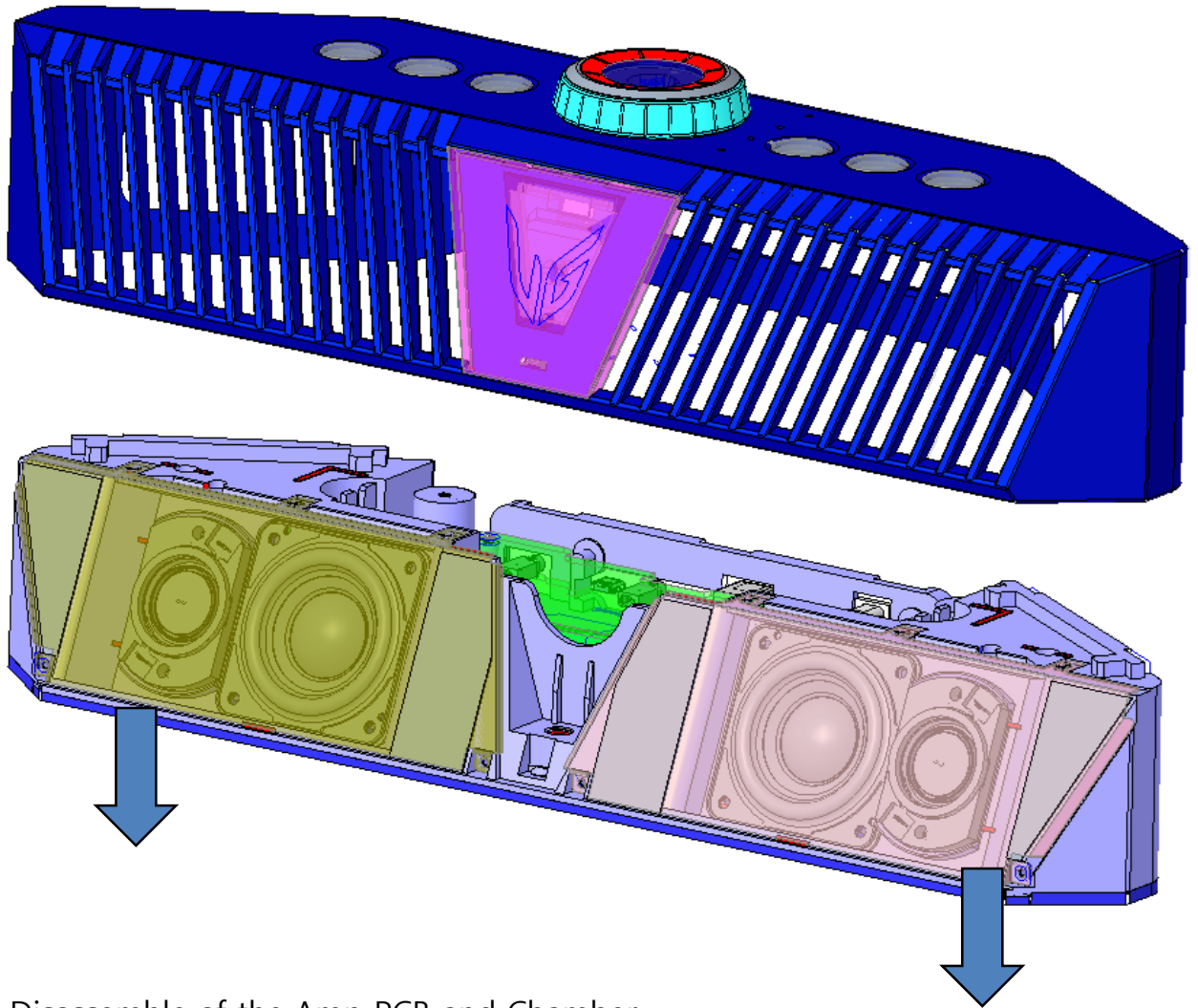


3) Disassemble rear Jack

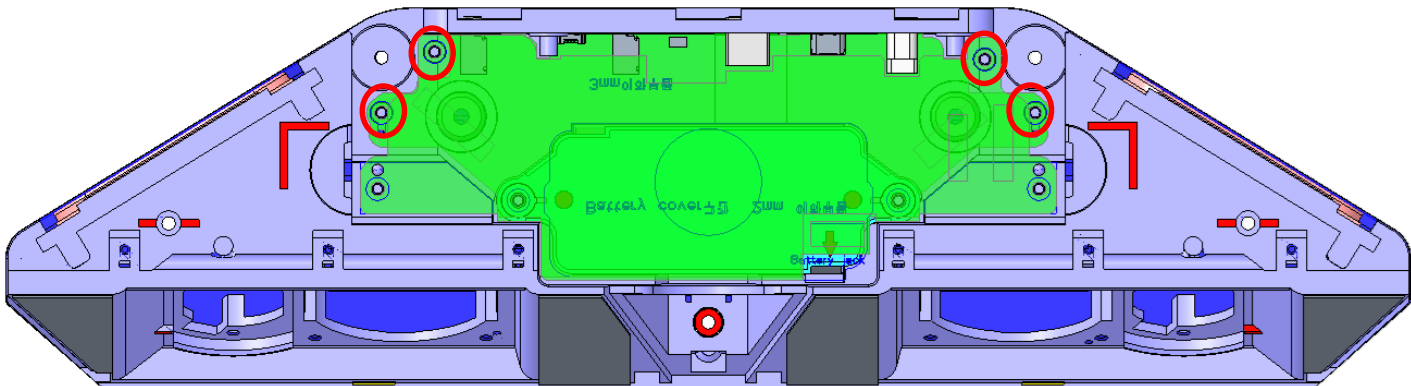


# 31. GP9 / DGP9

4) Disassemble of Case Chamber A'ssy & Cover Top A'ssy

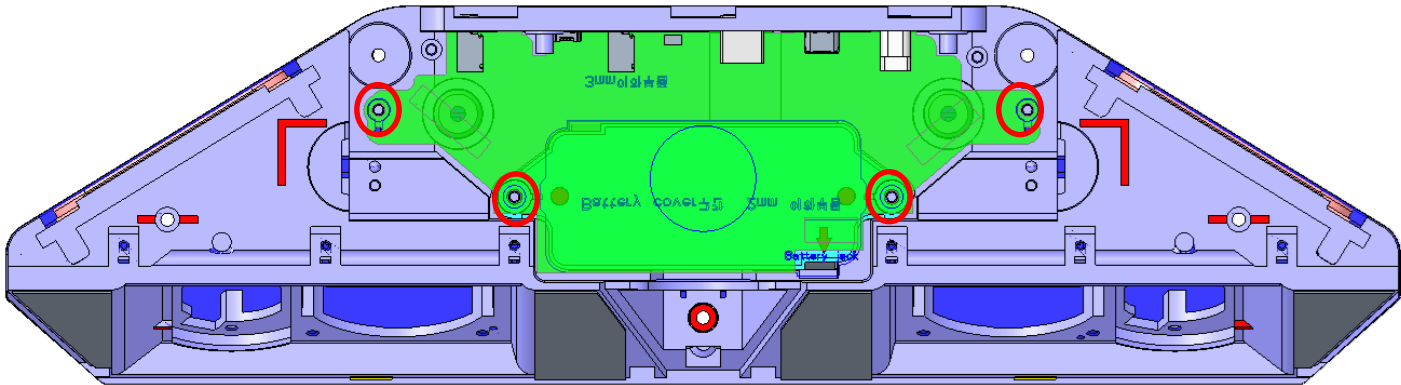


5) Disassemble of the Amp PCB and Chamber

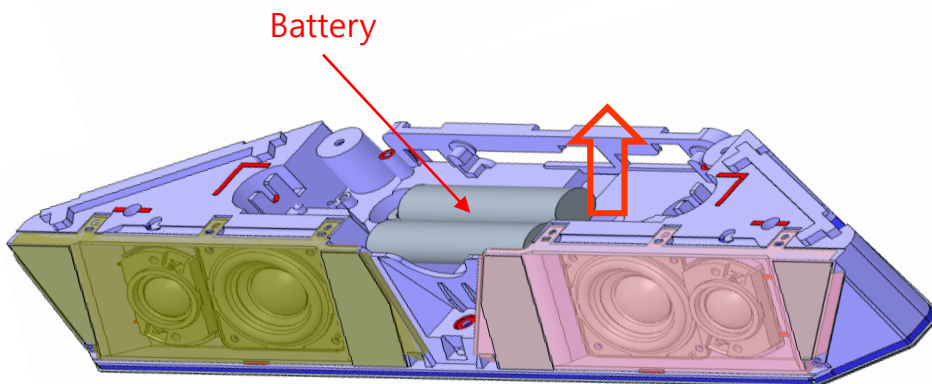
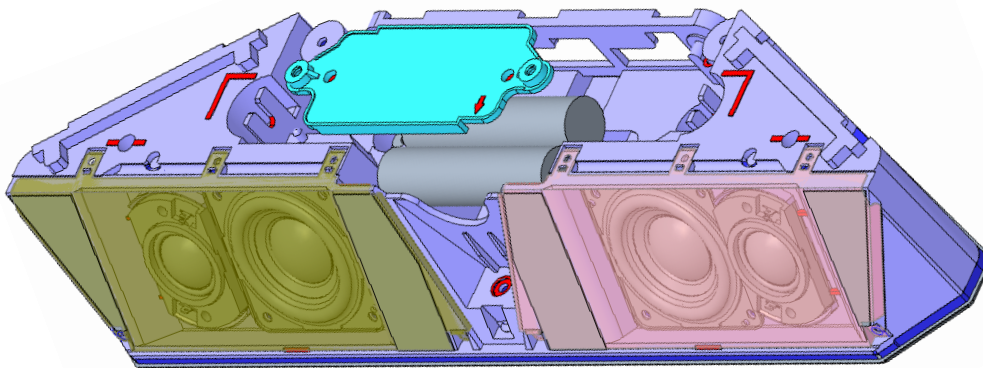


# 31. GP9 / DGP9

## 6) Disassemble of the Main PCB and Chamber

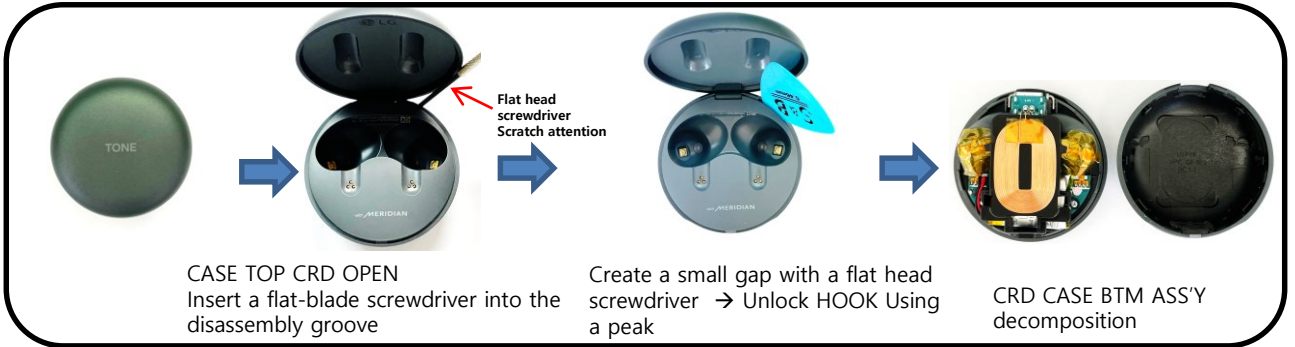


## 7) Disassemble of Battery

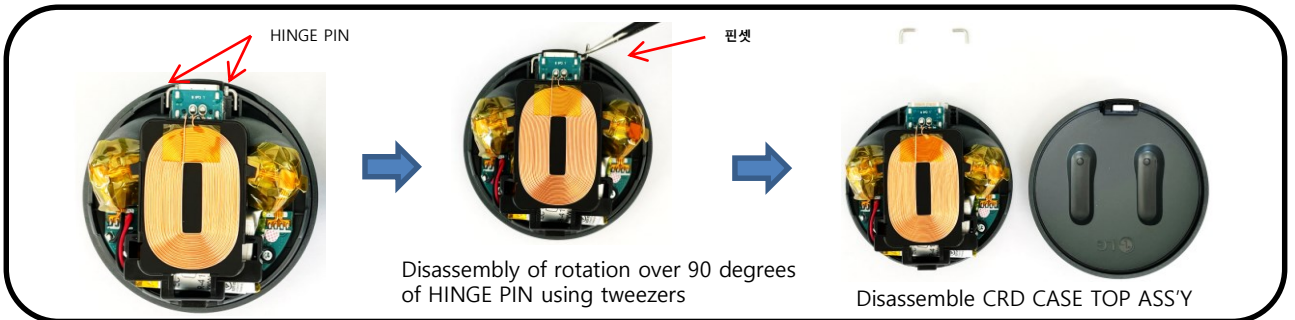


## 32. TONE-FP8/FP6

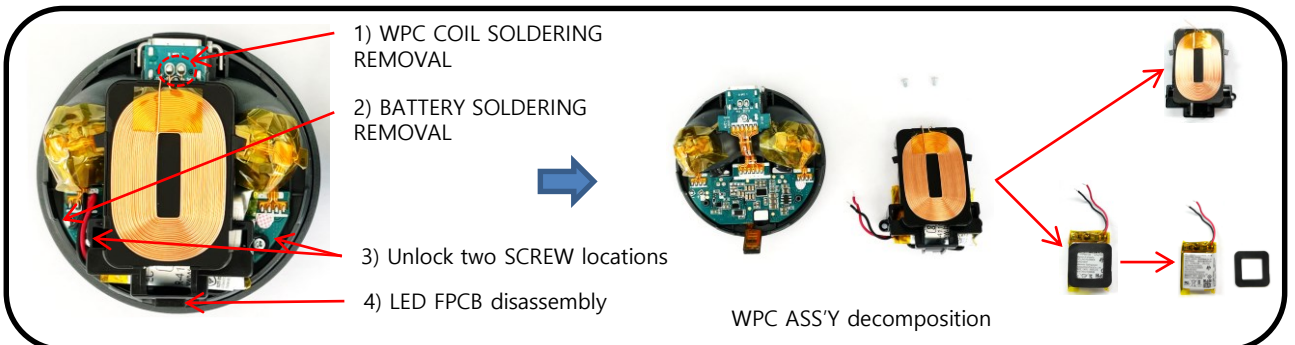
- TONE-FP8, TONE-FP8W, TONE-FP8E
- TONE-DFP8, TONE-DFP8W, TONE-DFP8E
- TONE-UFP8, TONE-UFP8W, TONE-UFP8E
- TONE-FP8A, TONE-FP8WA, TONE-FP8EA
- TONE-FP6, TONE-FP6W



1. Open CASE TOP CRD → Using a flat head screwdriver → Open the gap of CASE BTM INNER → Unlock HOOK Using a peak → CRD CASE BTM ASS'Y decomposition.



2. Disassemble the HINGE PIN using tweezers → Disassemble CRD CASE TOP ASS'Y

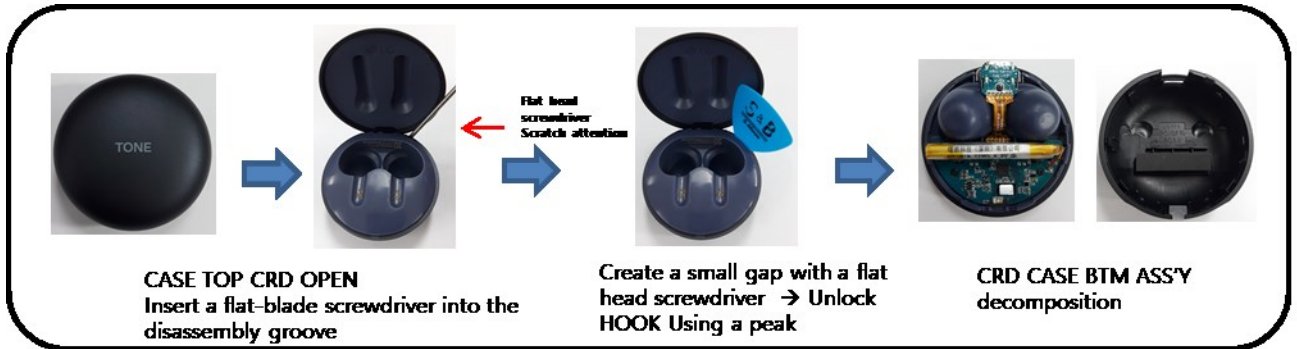


3. Remove WPC COIL SOLDERING using ironing machine → Remove BATTERY SOLDERING using ironing machine → Releasing two SCREW → LED FPCB disassembly → Push the top HOOK → WPC and PBA decomposition. → BRACKET PCB and BATTERY ASS'Y decomposition. → BATTERY and TAPE CRD CUSHION BATTERY decomposition.

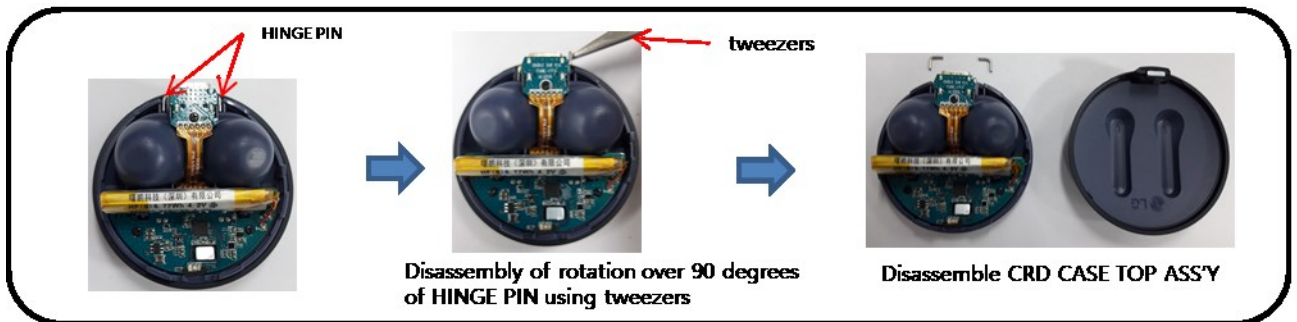


### 33. TONE-FP3

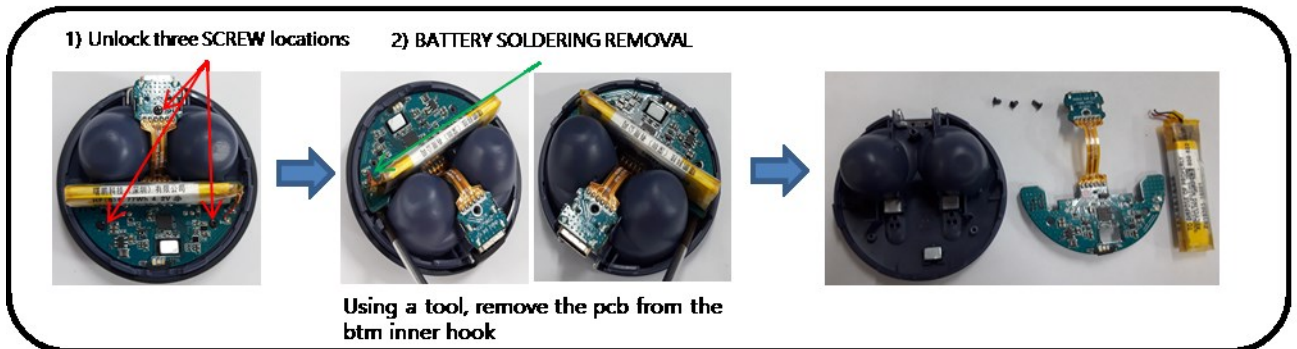
- TONE-FP3 / TONE-FP3W / TONE-DFP3 / TONE-DFP3W  
TONE-UFP3 / TONE-UFP3W



1. Open CASE TOP CRD → Using a flat head screwdriver → Open the gap of CASE BTM INNER → Unlock HOOK Using a peak → CRD CASE BTM ASS'Y decomposition.



2. Disassemble the HINGE PIN using tweezers → Disassemble CRD CASE TOP ASS'Y

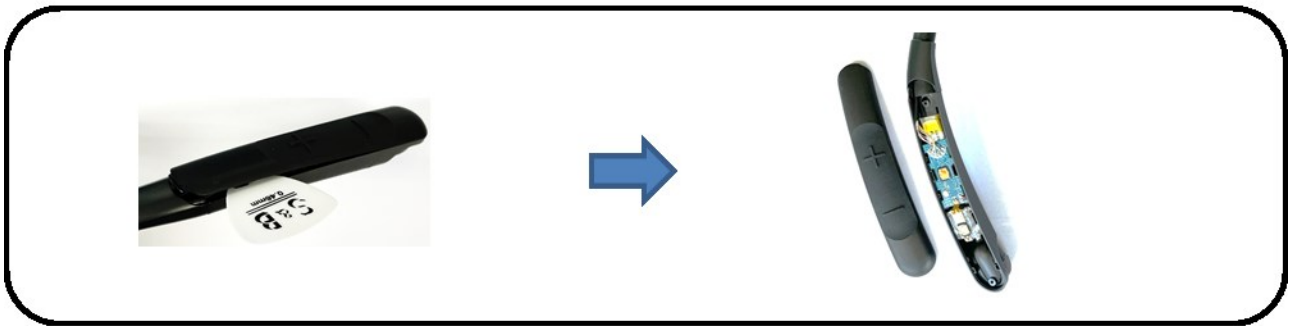


Releasing three SCREW → Remove BATTERY SOLDERING using ironing machine → Using a tool, remove the pcb from the btm inner hook → BATTERY and PBA decomposition

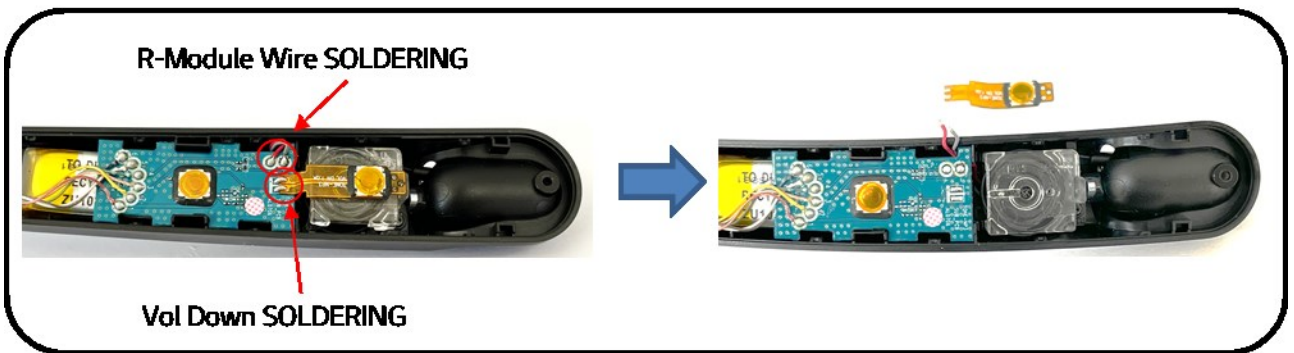
# 34. TONE-NP3 / TONE-UNP3 / TONE-DNP3



1. Remove the cap screw using the tweezers, then use the + screwdriver to release the screw

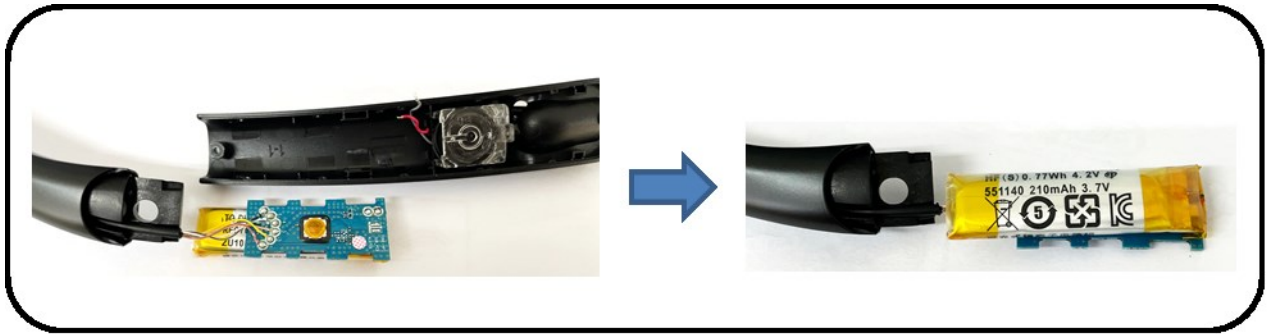


2. Remove the hook from the neckband and disassemble the case top R.

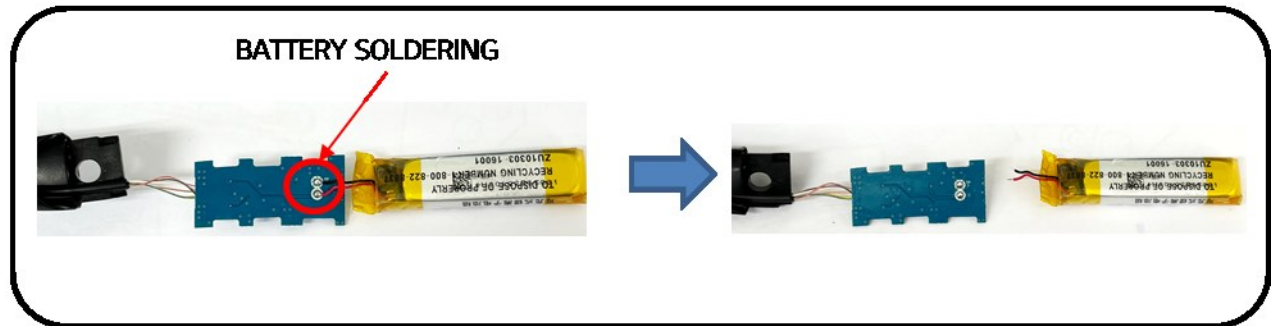


3. Remove Vol Down FPCB SOLDERING using with ironing machine → Decomposition MIC 1 FPCB

# 34. TONE-NP3 / TONE-UNP3 / TONE-DNP3



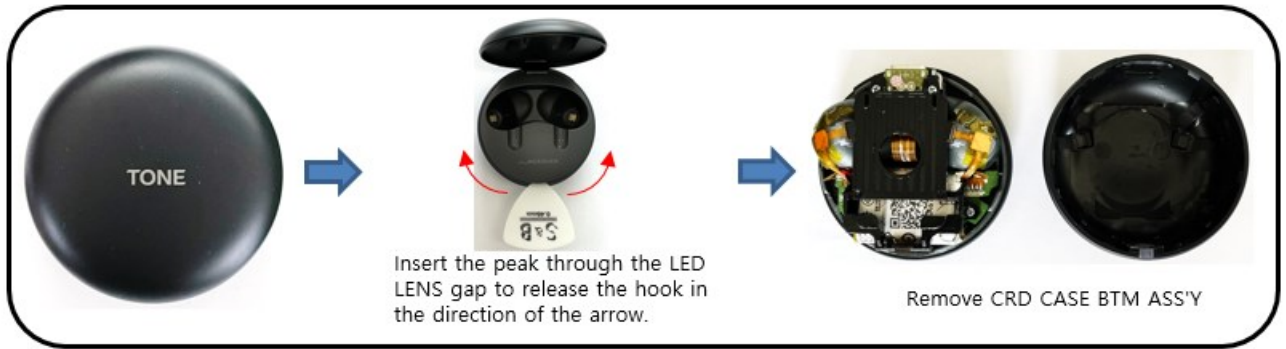
4. Decomposition PBA SUB Ass'y and CASE BTM R



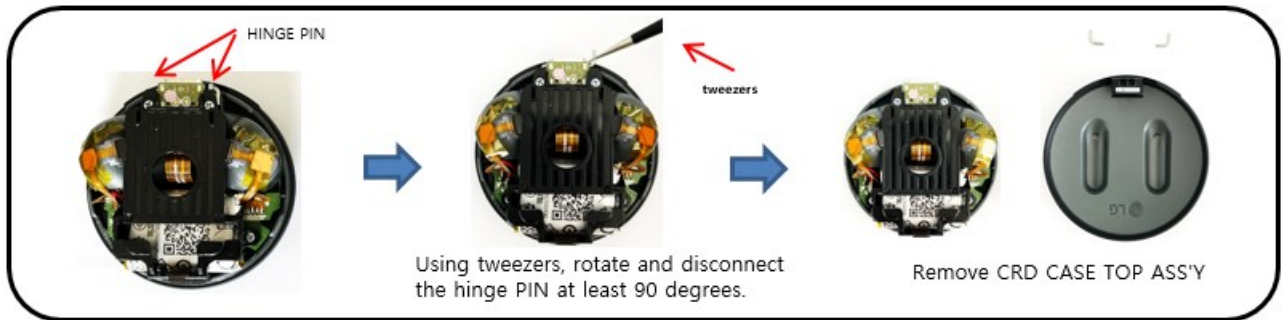
5. Detach the BATTERY in the PBA SUB → Remove BATTERY WIRE SOLDERING using with ironing machine



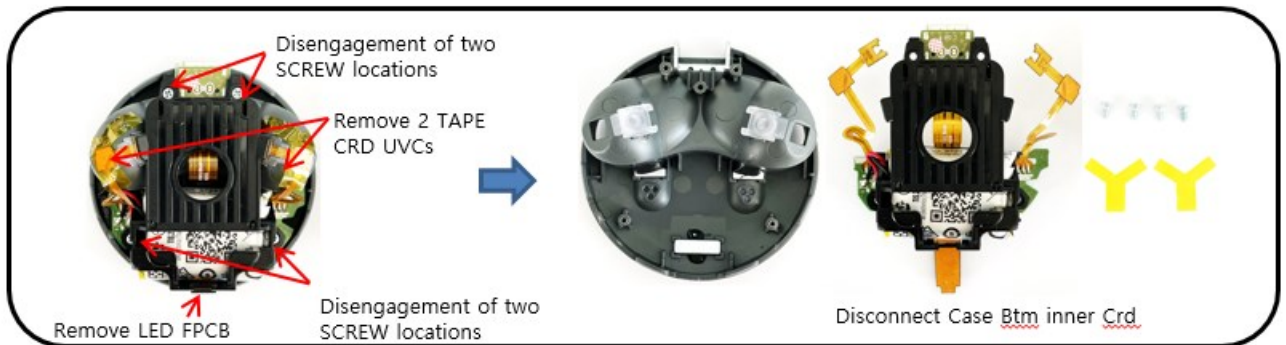
# 35. TONE-T60Q



1. Open the CASE TOP CRD, insert a peak through the gap of the LED LENS, and release the hook in the direction of the arrow to remove the CRD CASE BTM ASS'Y. (Careful Scratch)

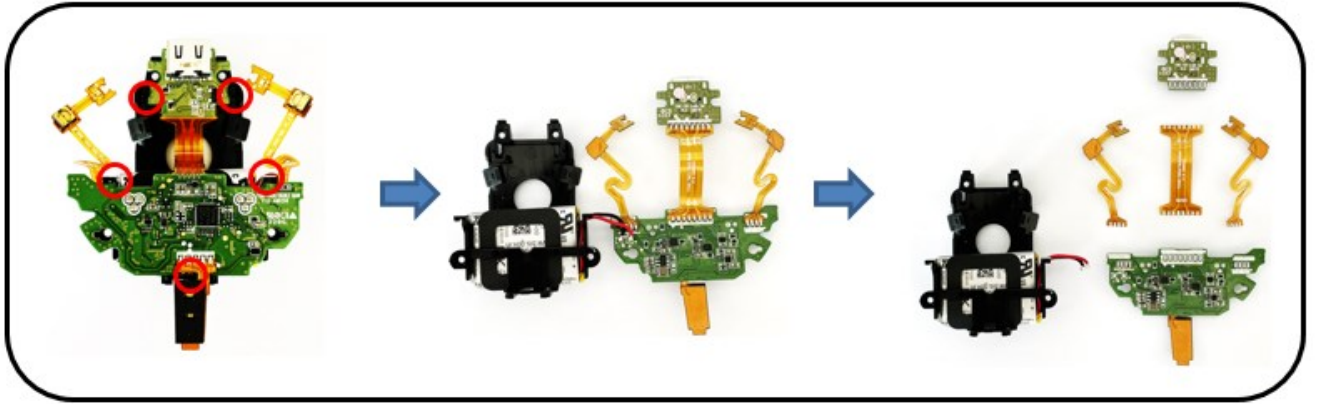


2. Disconnect the HINGE PIN using a tweezers → Disconnect CRD CASE TOP ASS'Y

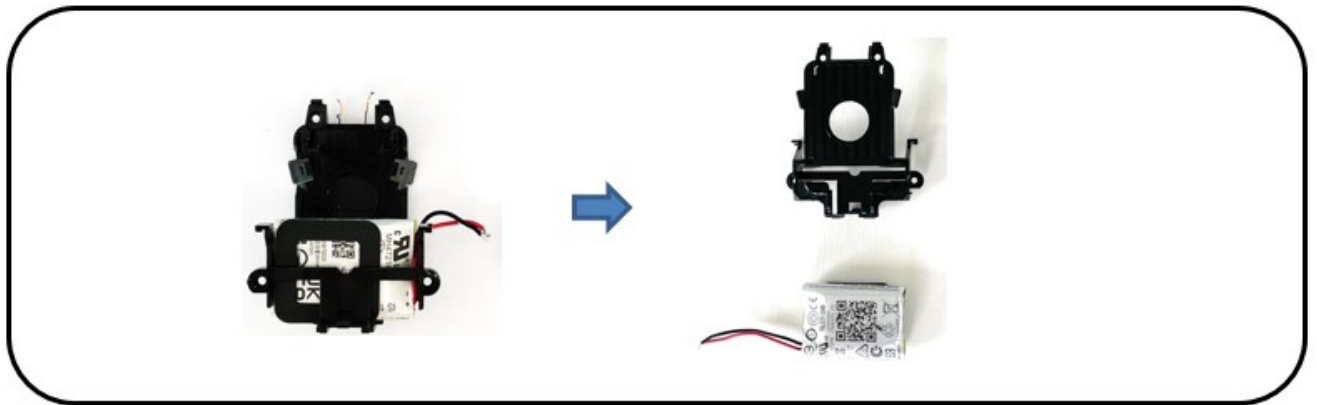


3. Disengagement of SCREW 4 locations → Remove 2 TAPE CRD UVCs (Do not reuse) → Remove LED FPCB → Disconnect Case Btm inner Crd

## 35. TONE-T60Q

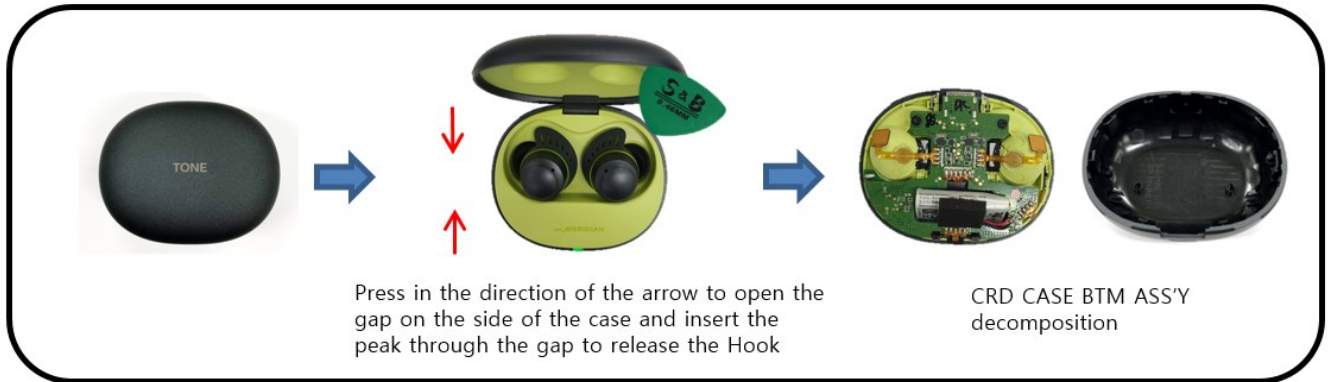


4. Unfasten the 5 hooks on the other side of the CASE BTM INNER CRD → using a soldering iron, SOLDER the BTOB FPCB, BATTERY, UVC FPCB

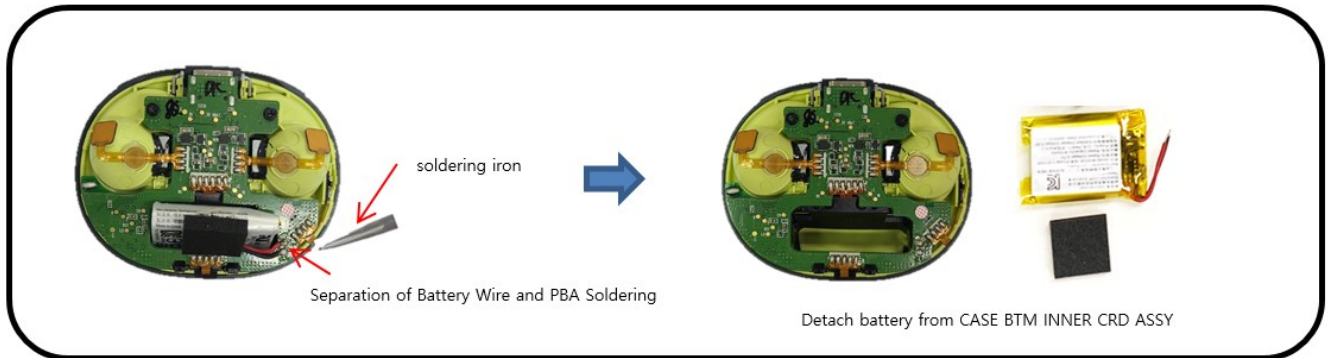


5. Disconnect the bracket PCB and BATTERY

## 36. TONE-TF7Q/TF8Q

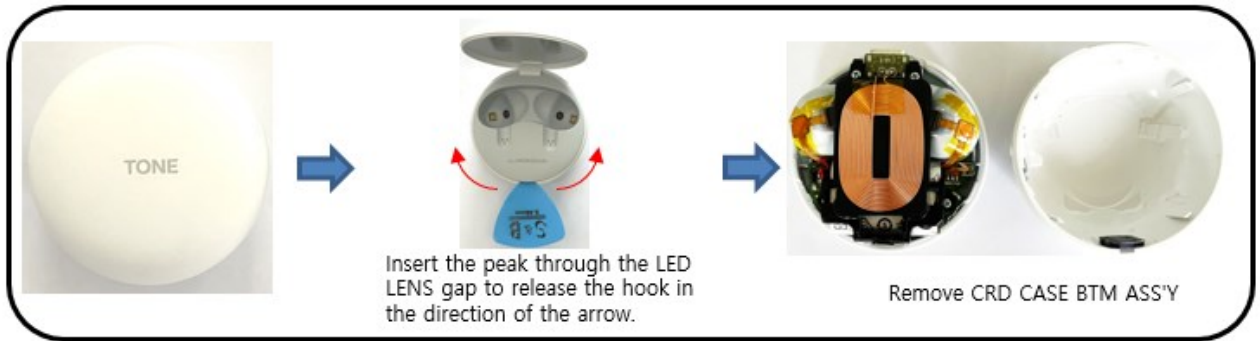


1. Open the CASE TOP CRD, open the gap of the CASE BTM INNER, and remove the CRD CASE BTM ASS'Y by inserting a peak through the gap. (Careful scratch)

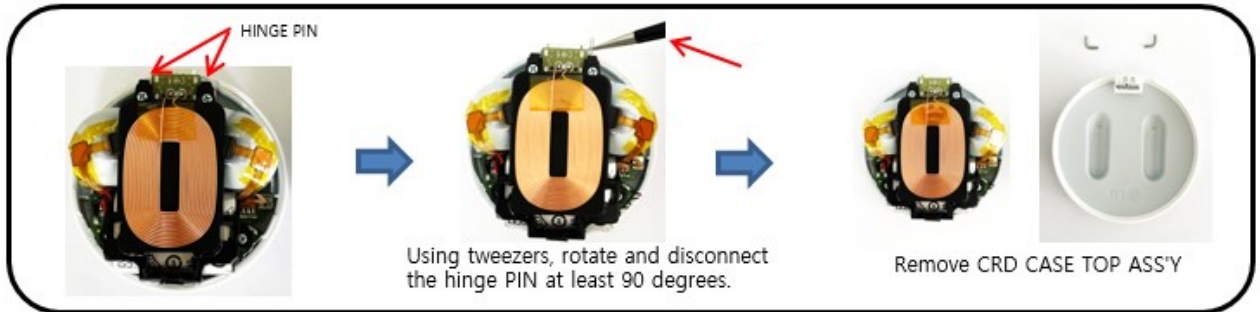


2. BATTERY WIRE SOLDER Removed from PBA using Iron  
→ Remove Poron Battery and Battery

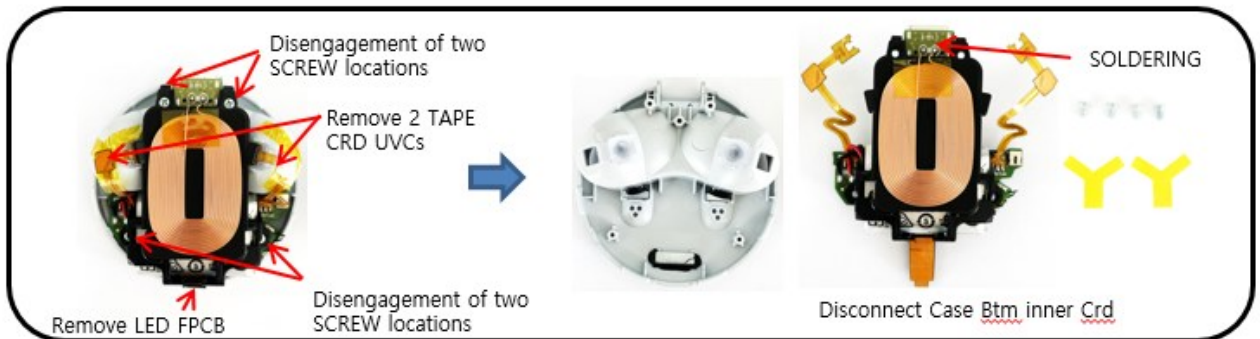
# 37. TONE-T90Q



1. Open the CASE TOP CRD, insert a peak through the gap of the LED LENS, and release the hook in the direction of the arrow to remove the CRD CASE BTM ASS'Y. (Careful Scratch)

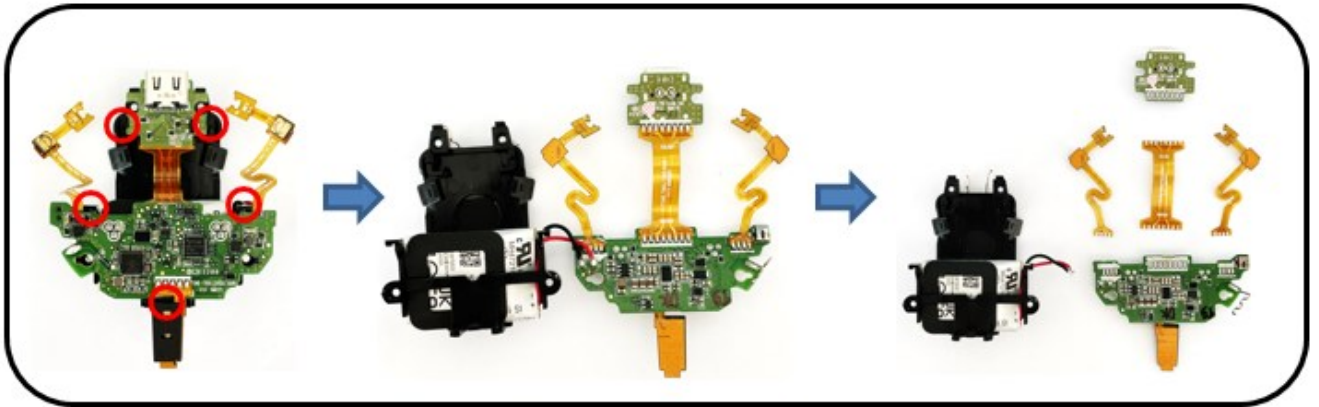


2. Disconnect the HINGE PIN using a tweezers → Disconnect CRD CASE TOP ASS'Y

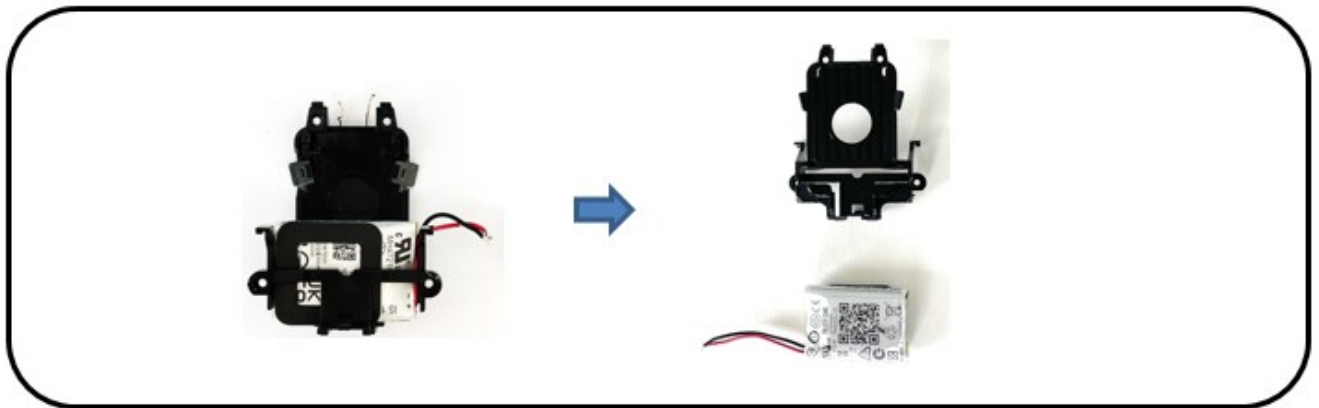


3. Disengagement of SCREW 4 locations → Remove 2 TAPE CRD UVCs (Do not reuse) → Remove LED FPCB → Disconnect Case Btm inner Crd → Remove WPC COIL SOLDERING

## 37. TONE-T90Q



4. Unfasten the 5 hooks on the other side of the CASE BTM INNER CRD → using a soldering iron, SOLDER the BTOB FPCB, BATTERY, UVC FPCB



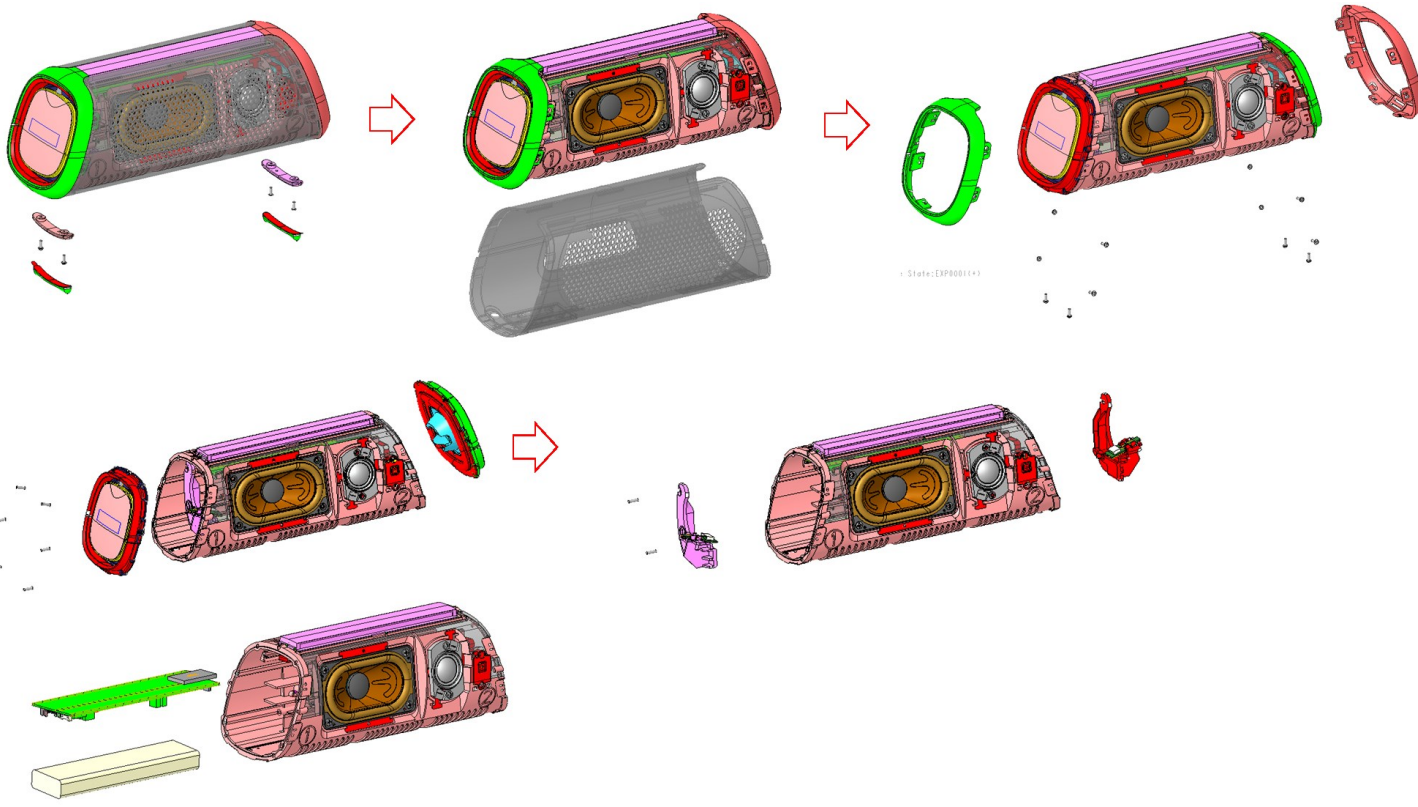
5. Disconnect the bracket PCB and BATTERY



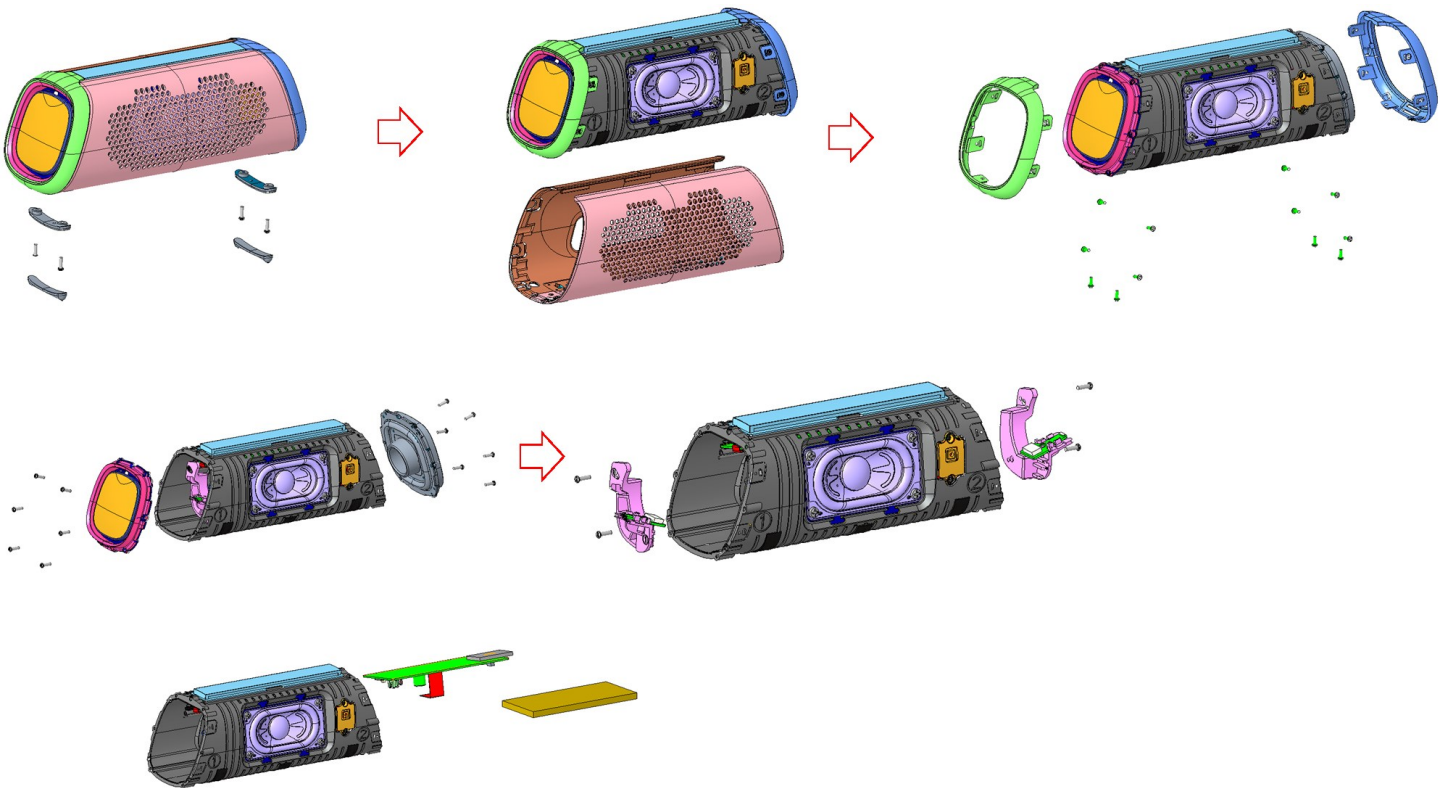
# 38. XG9Q



# 39. XG7Q



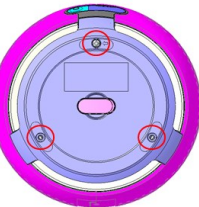
# 40. XG5Q



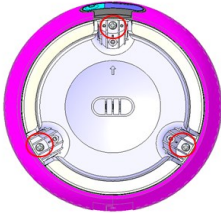


# 41. X03Q

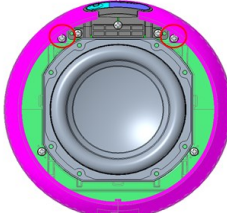
1) Disassemble of the Frame Stand Outer (3 screw)



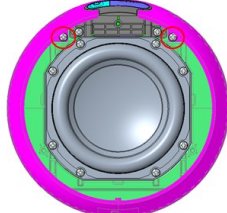
2) Disassemble of the Frame Stand Inner & Deco Bottom (3 screw)



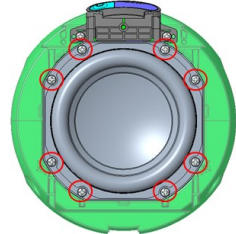
3) Disassemble of the Jersey Assy (2 screw)



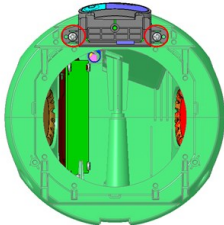
4) Disassemble of the Jersey Assy (2 screw)



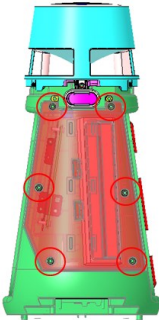
5) Disassemble of the WF Unit (8 screw)



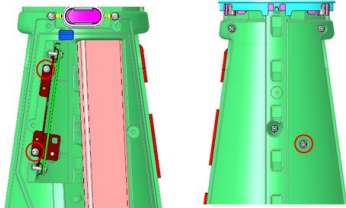
6) Disassemble of the Jack Assy (2 screw)



7) Disassemble of the Cover Battery (6 screw)

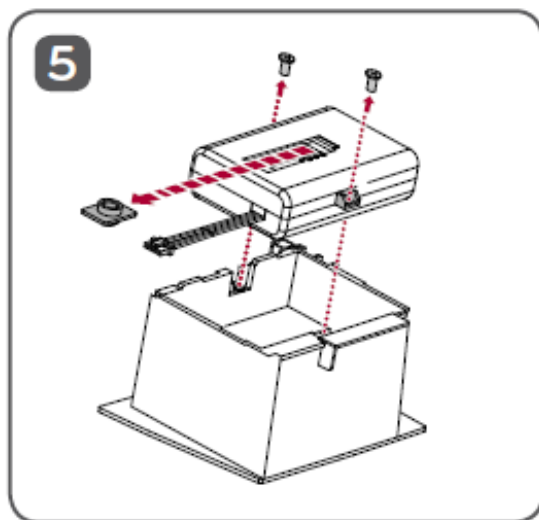
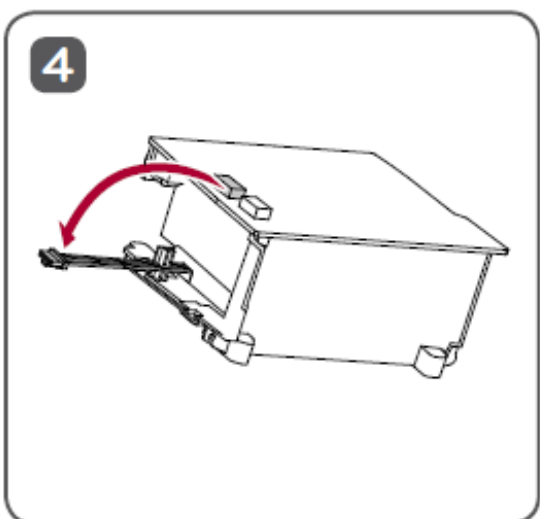
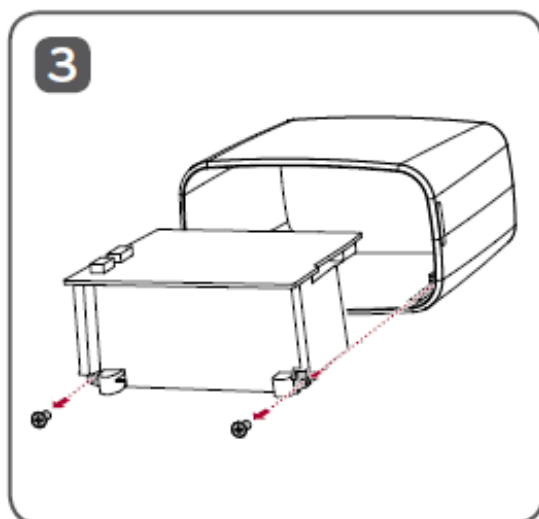
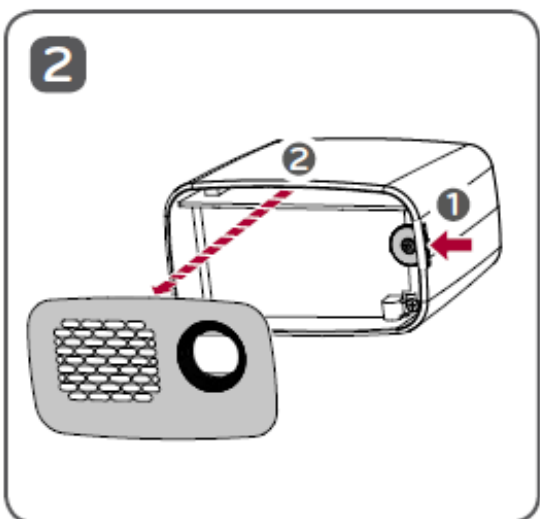
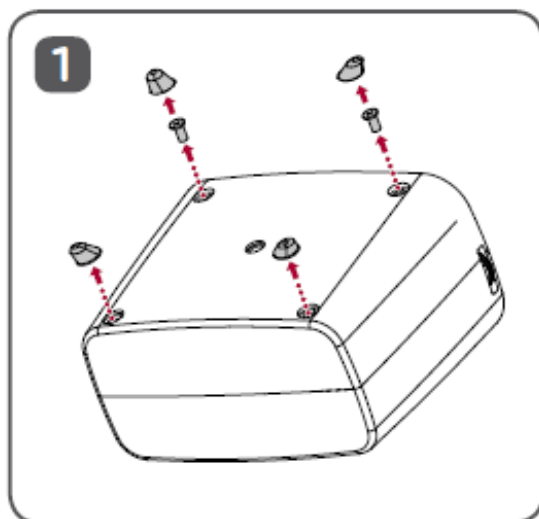


8) Disassemble of the Main Assy (3 screw)

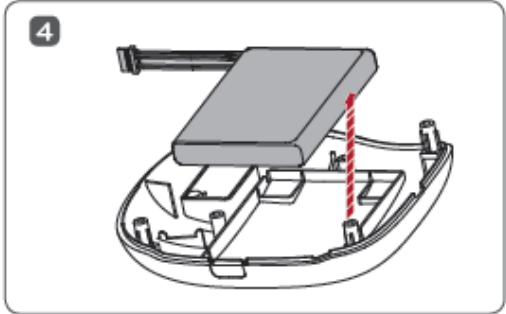
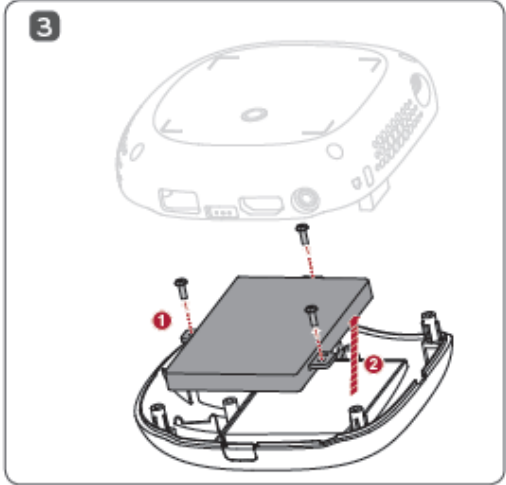
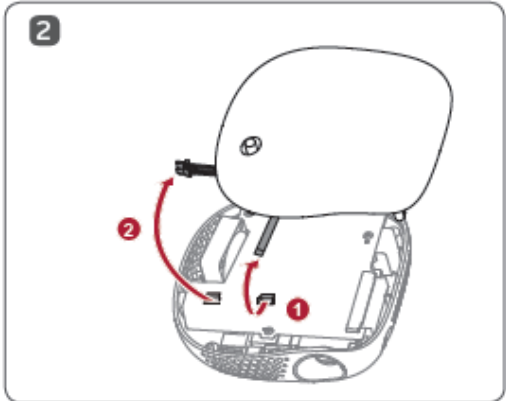
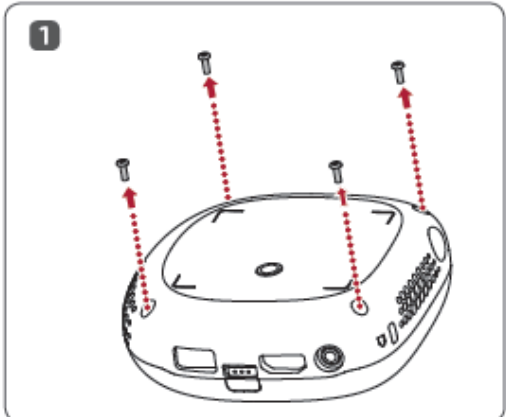


# III. Projector

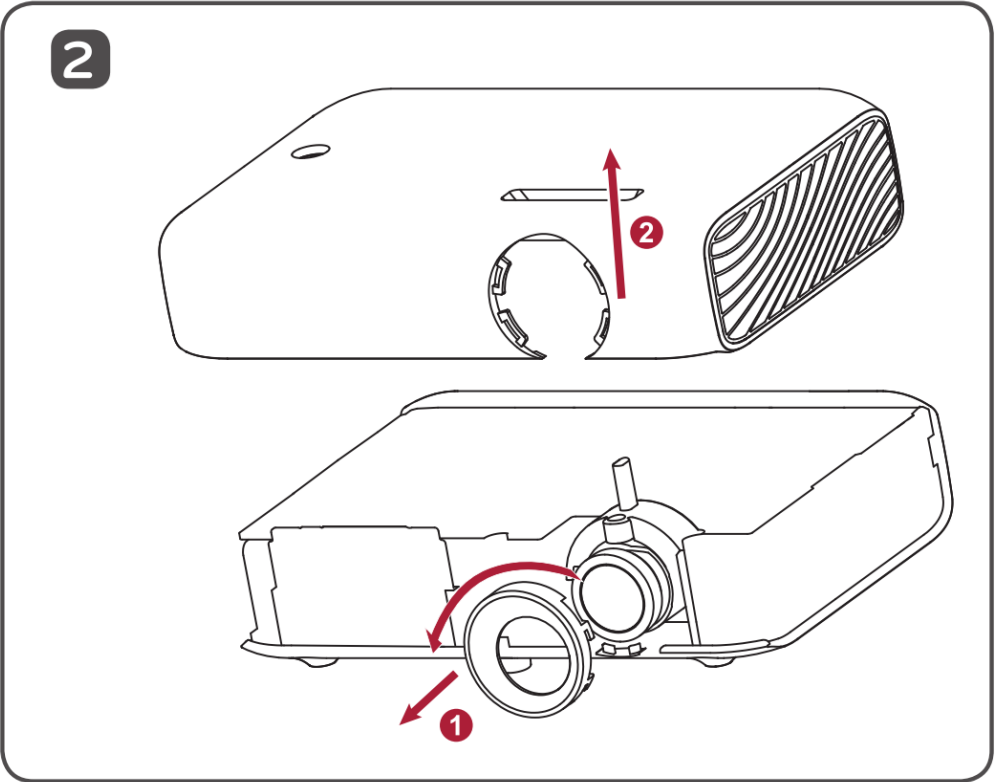
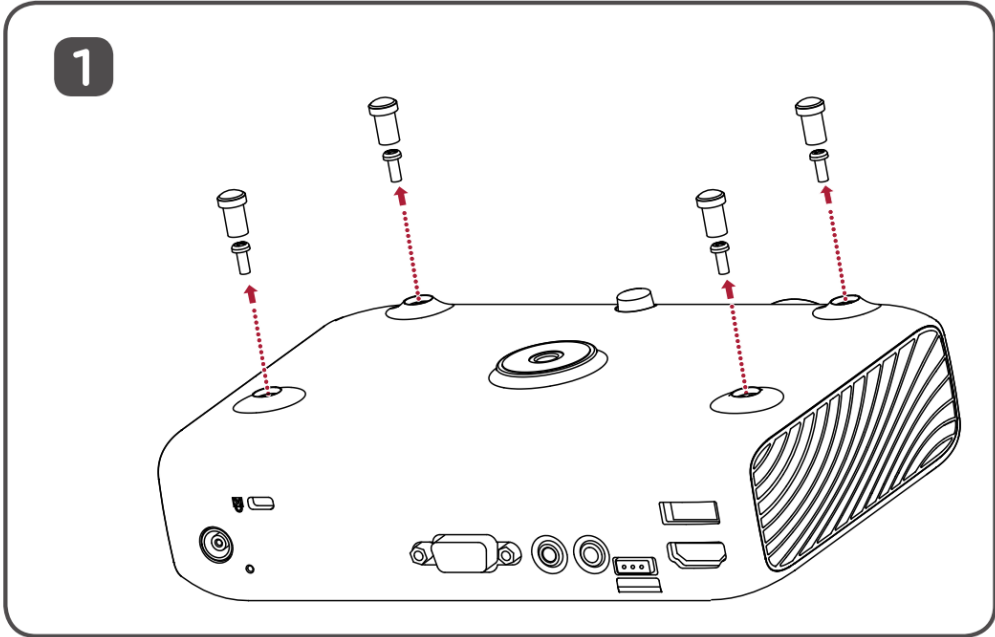
# 1. PH300



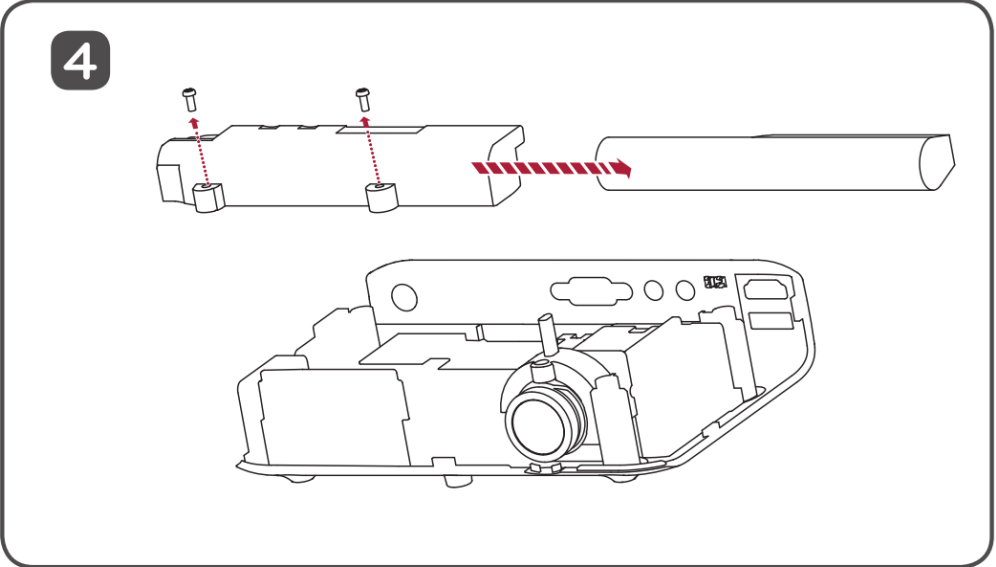
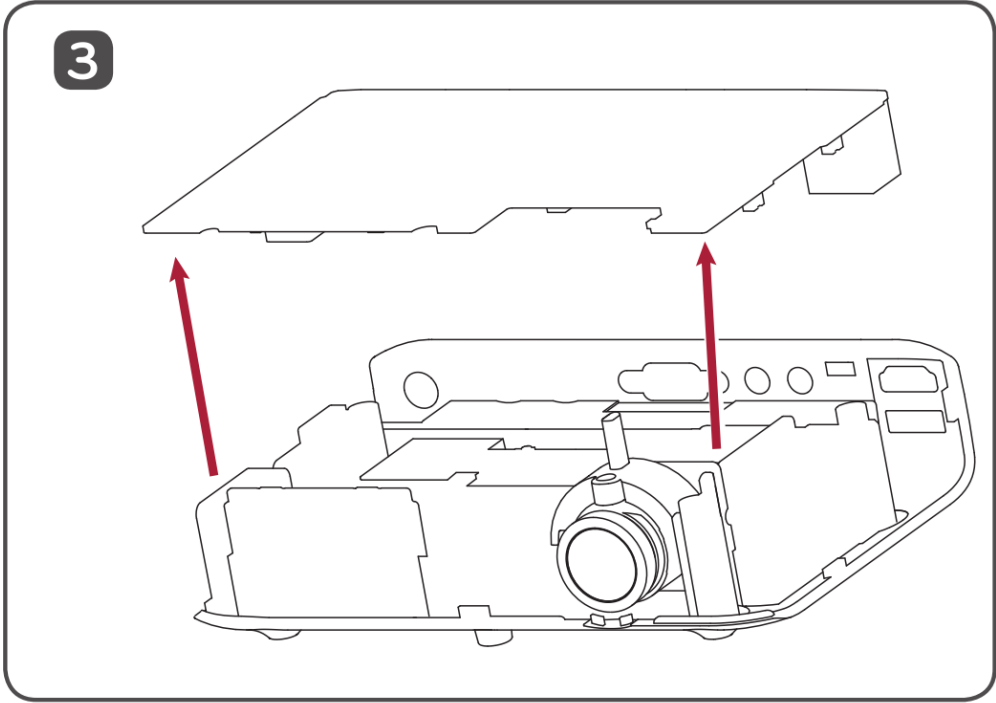
# 2. PV150G



### 3. PH550 / PH550G

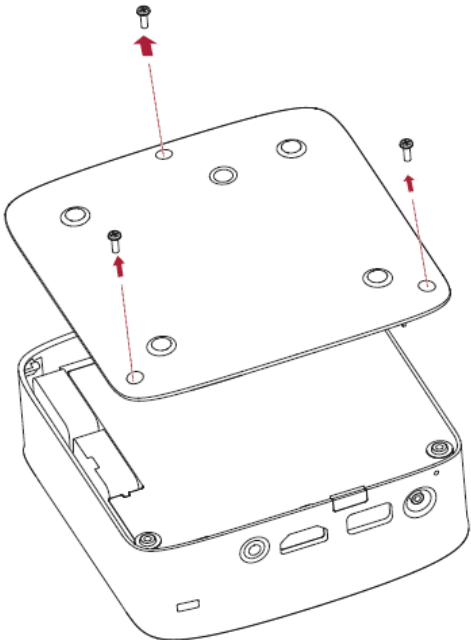


### 3. PH550 / PH550G

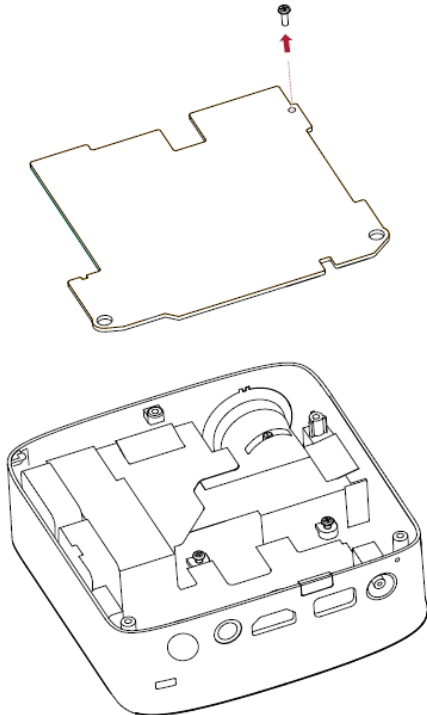


# 4. PH150G

1

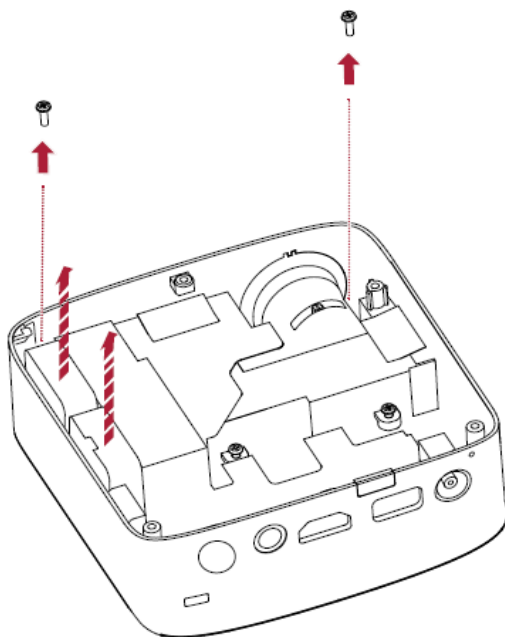


2

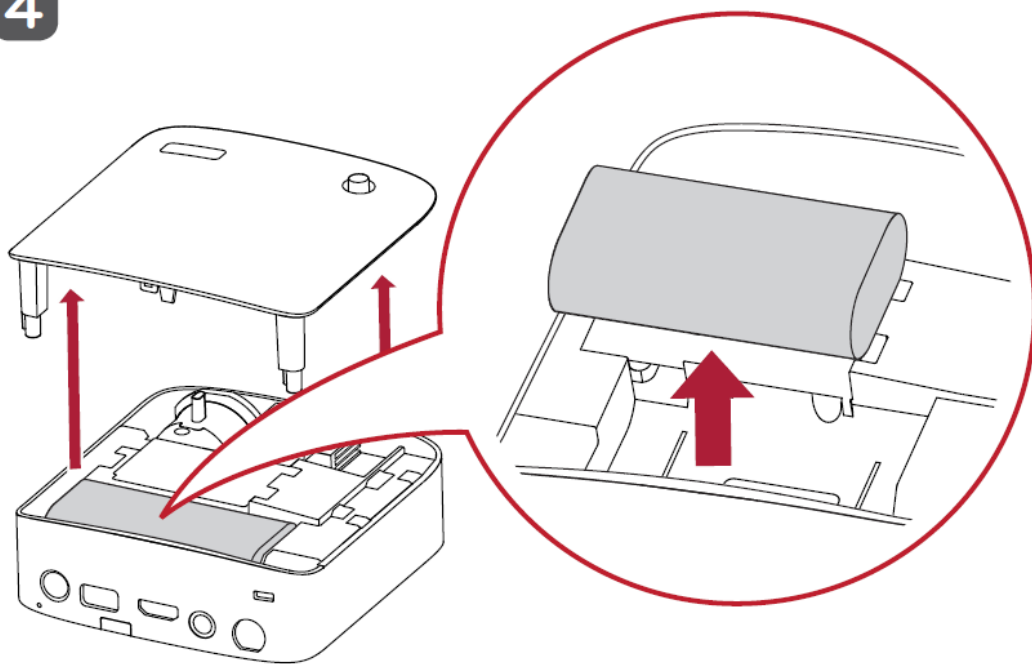


## 4. PH150G

3

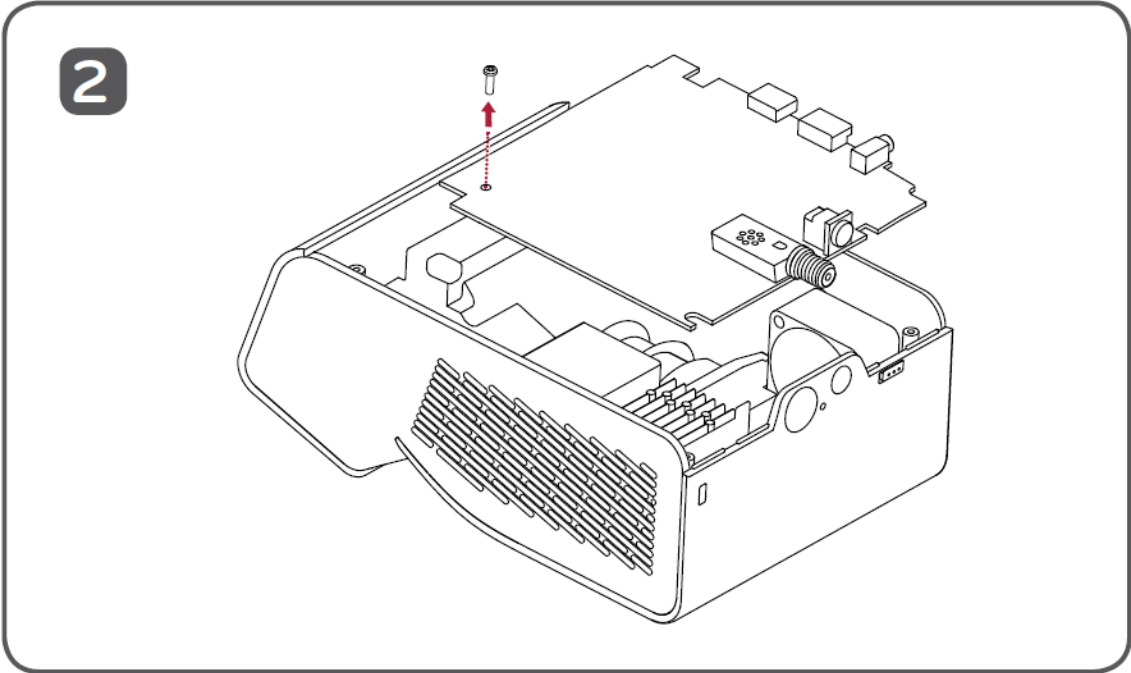
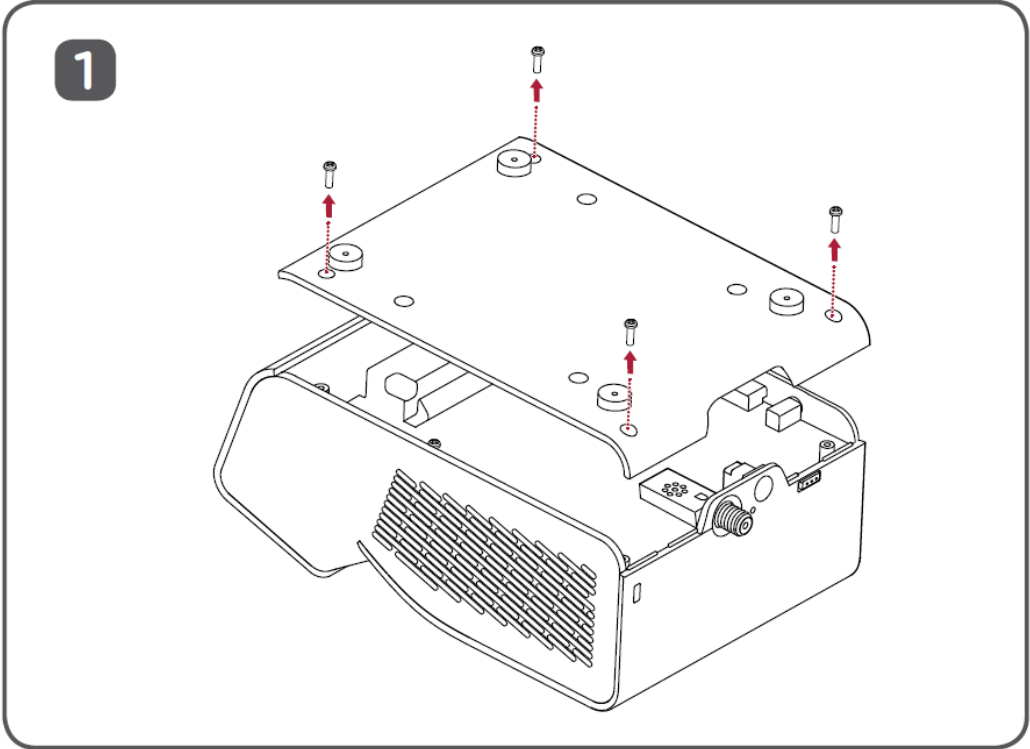


4

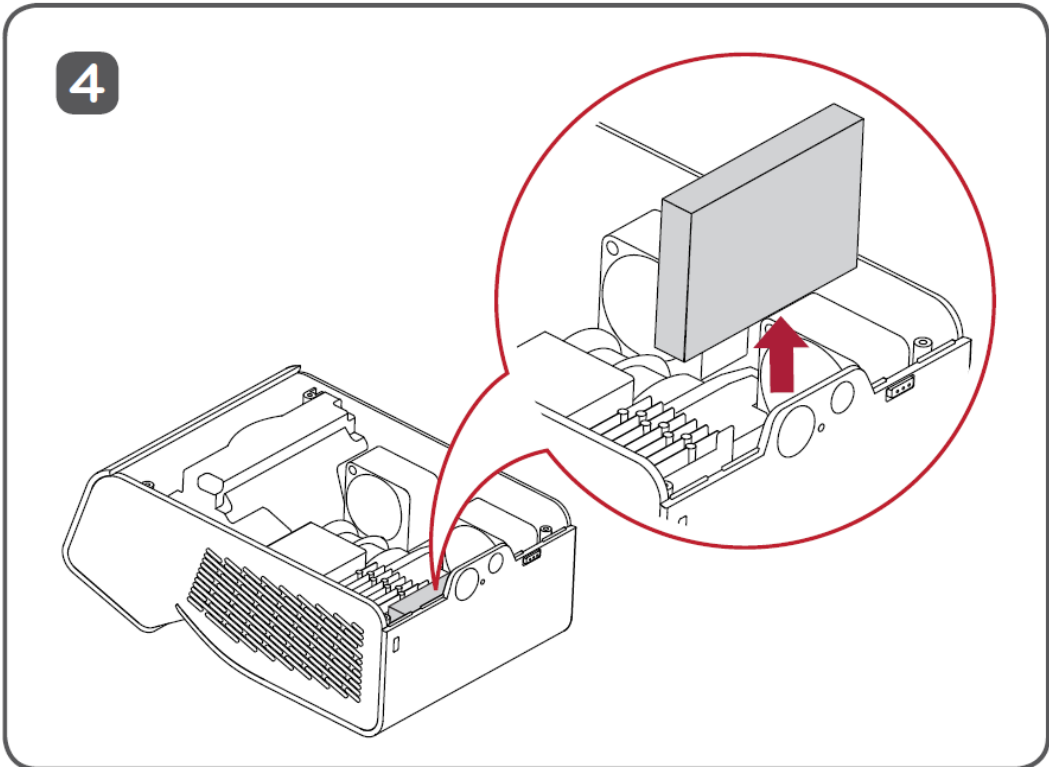
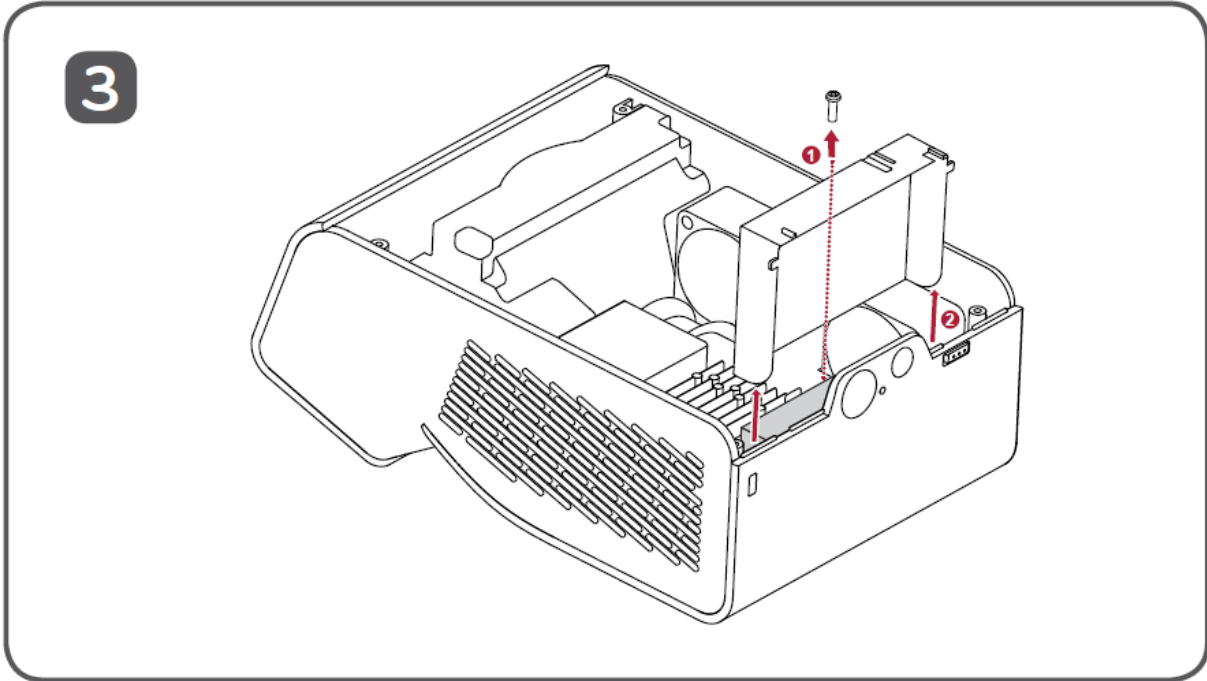




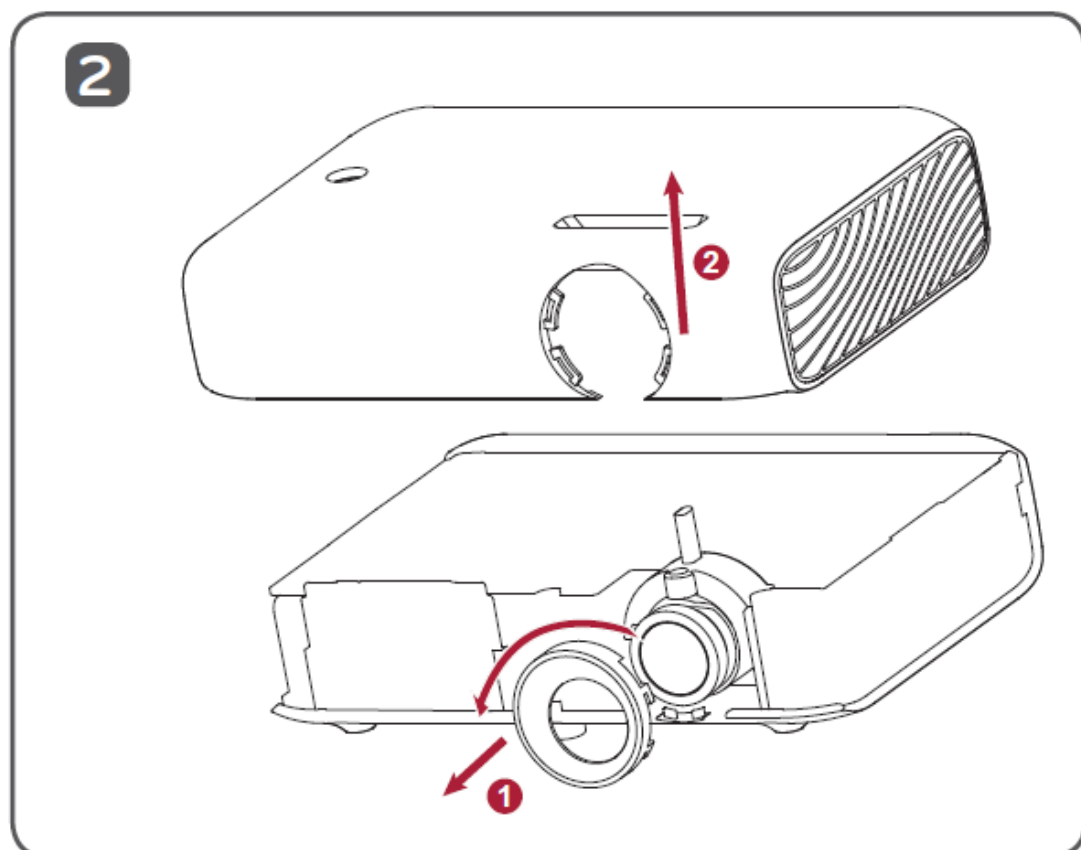
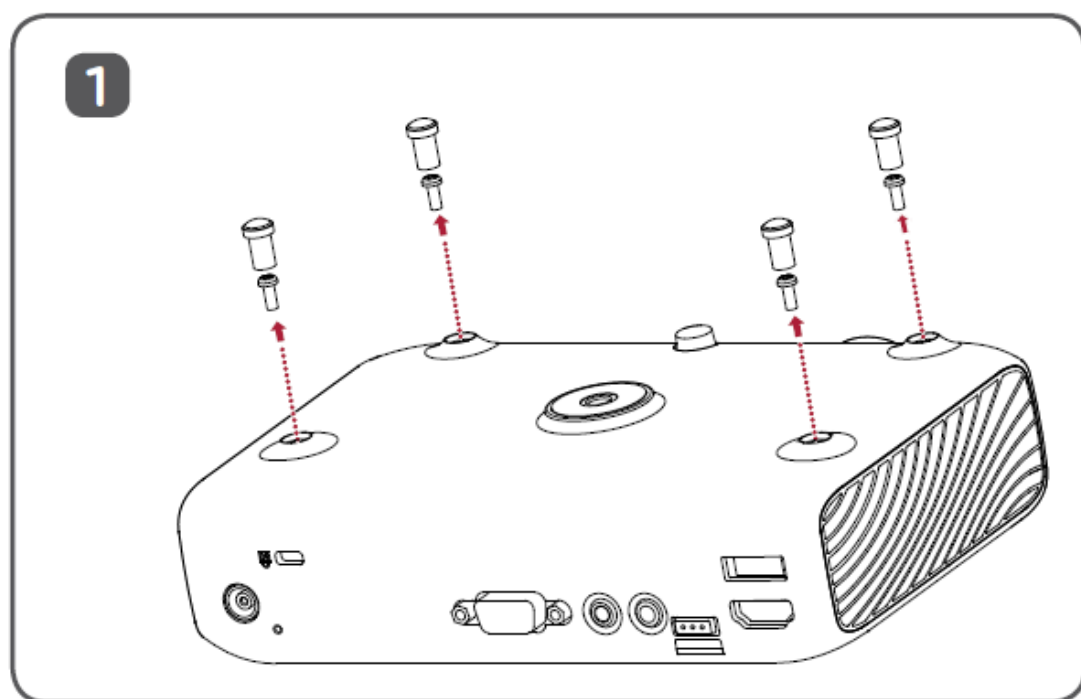
# 5. PH450UG



# 5. PH450UG

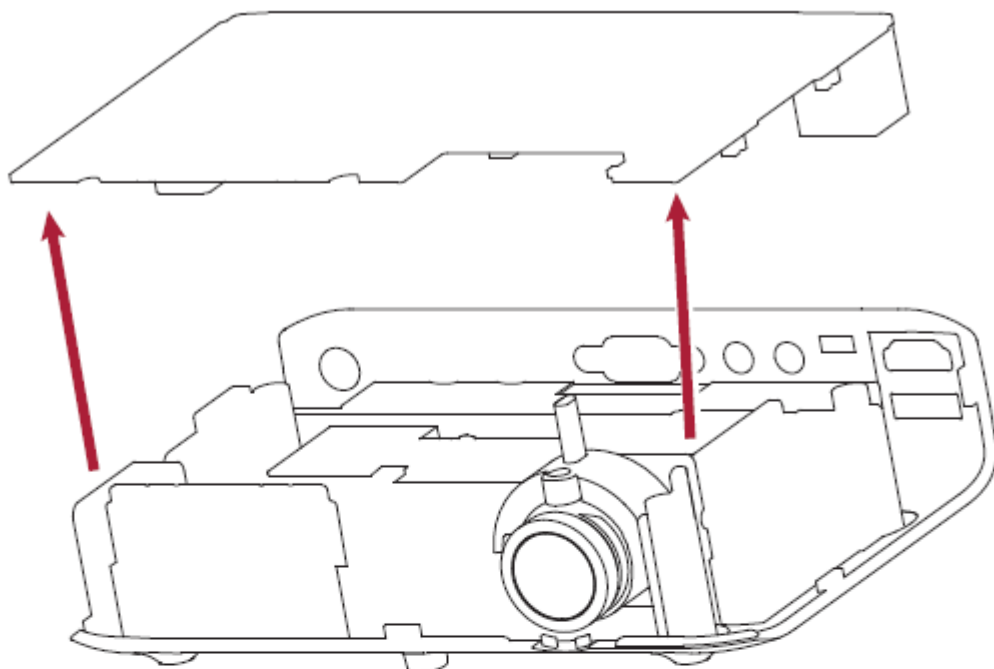


## 6. PH550G

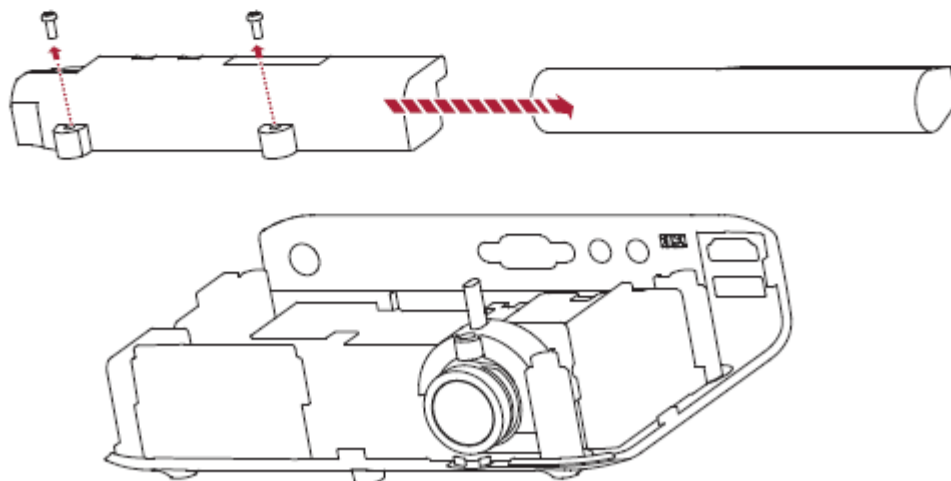


## 6. PH550G

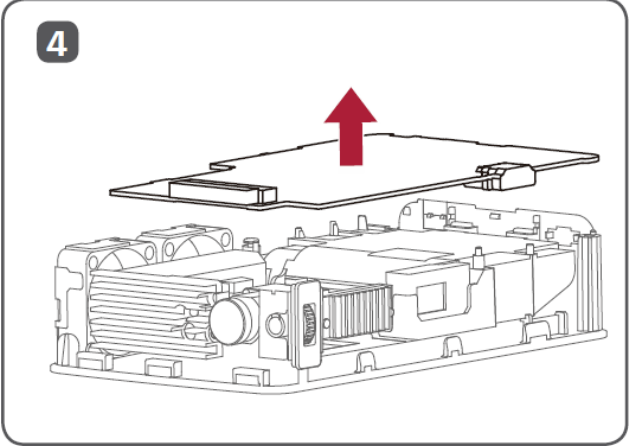
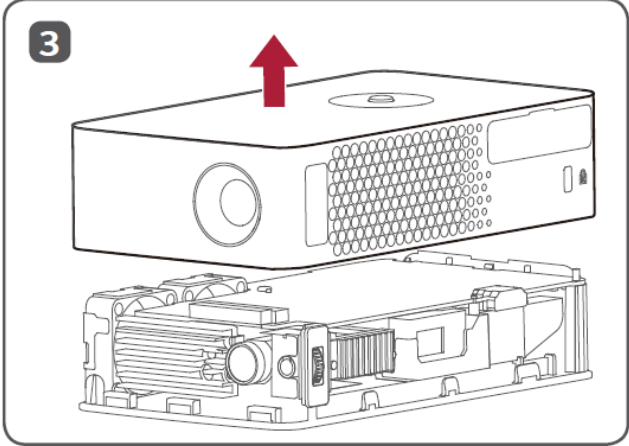
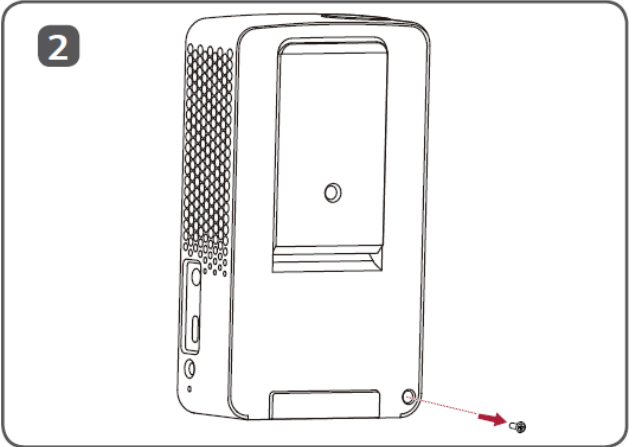
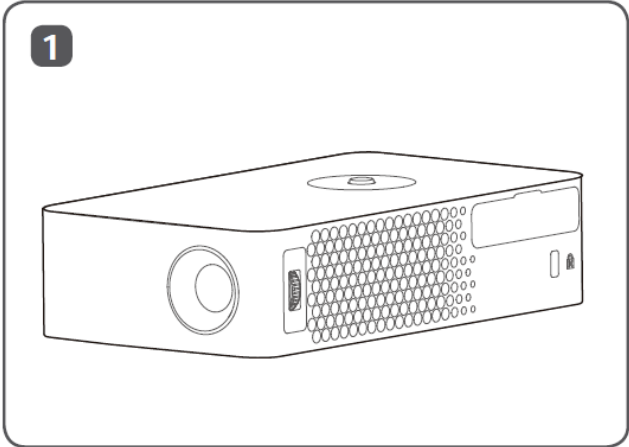
3



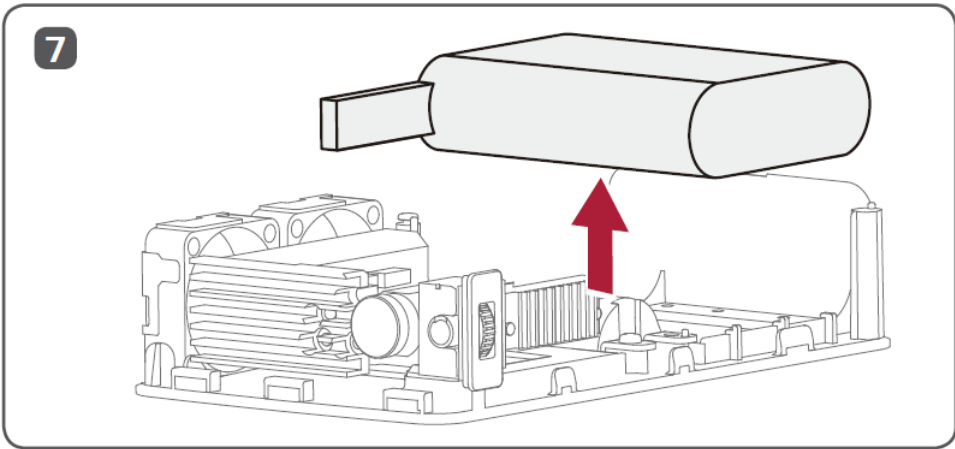
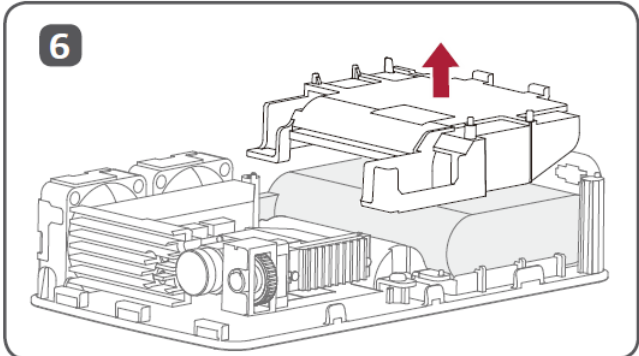
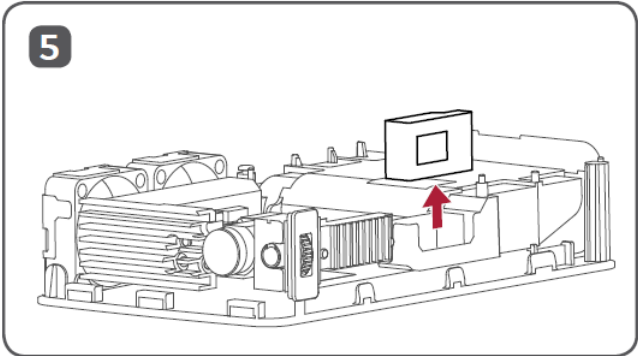
4



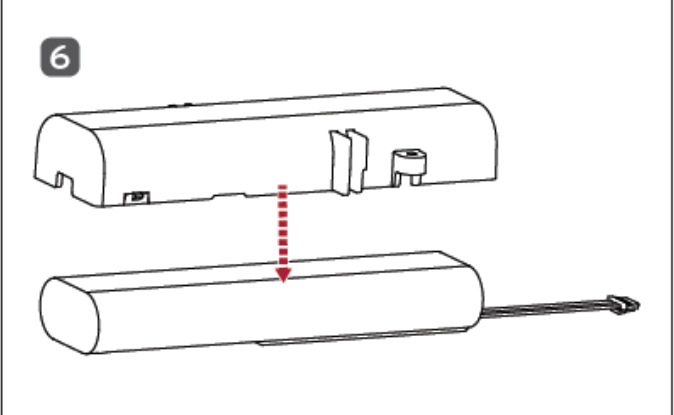
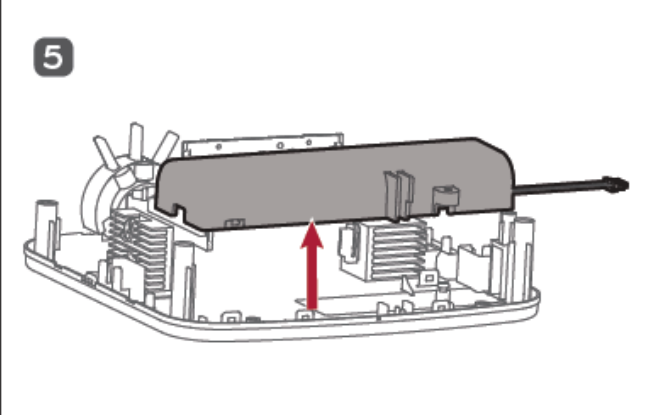
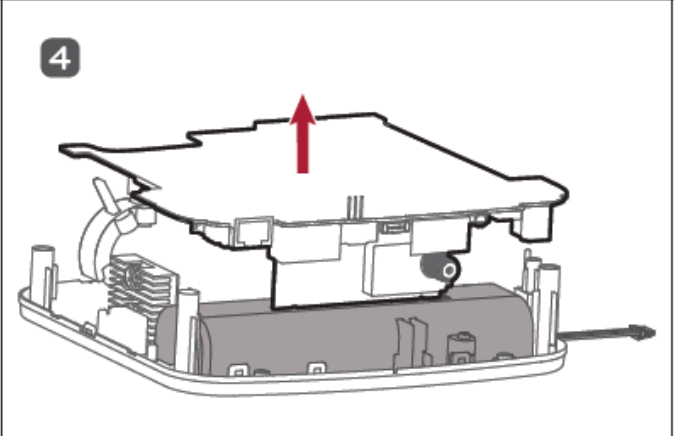
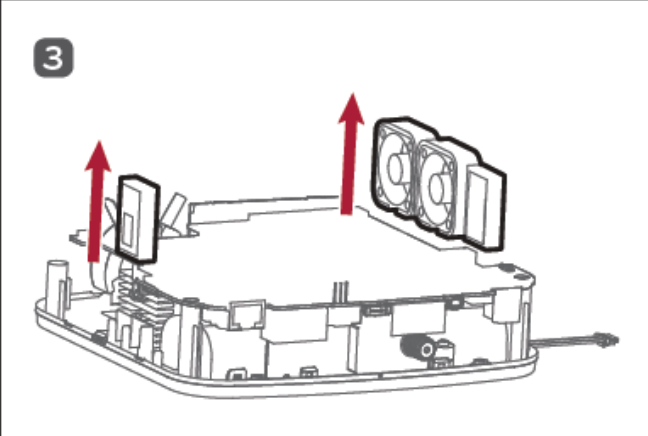
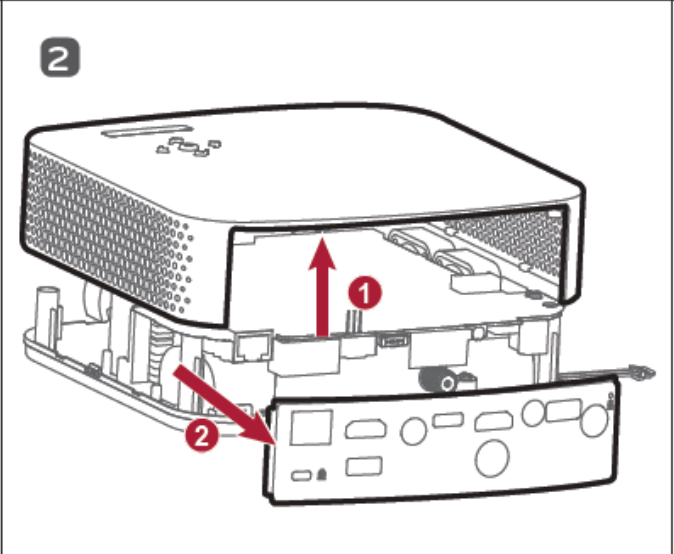
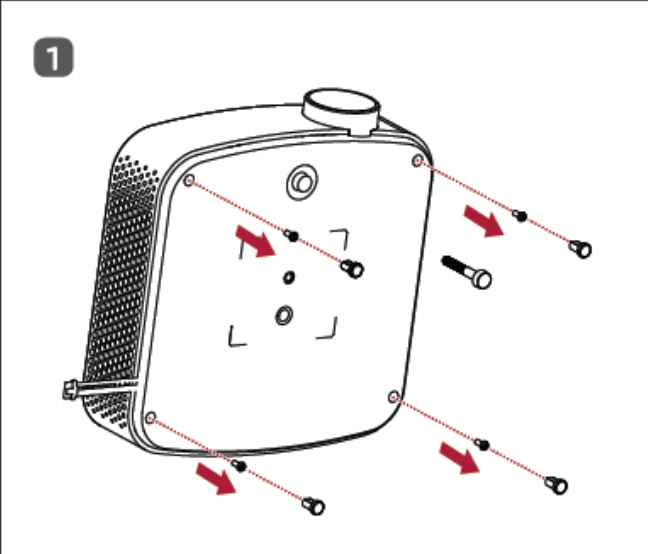
# 7. PH30JG



# 7. PH30JG

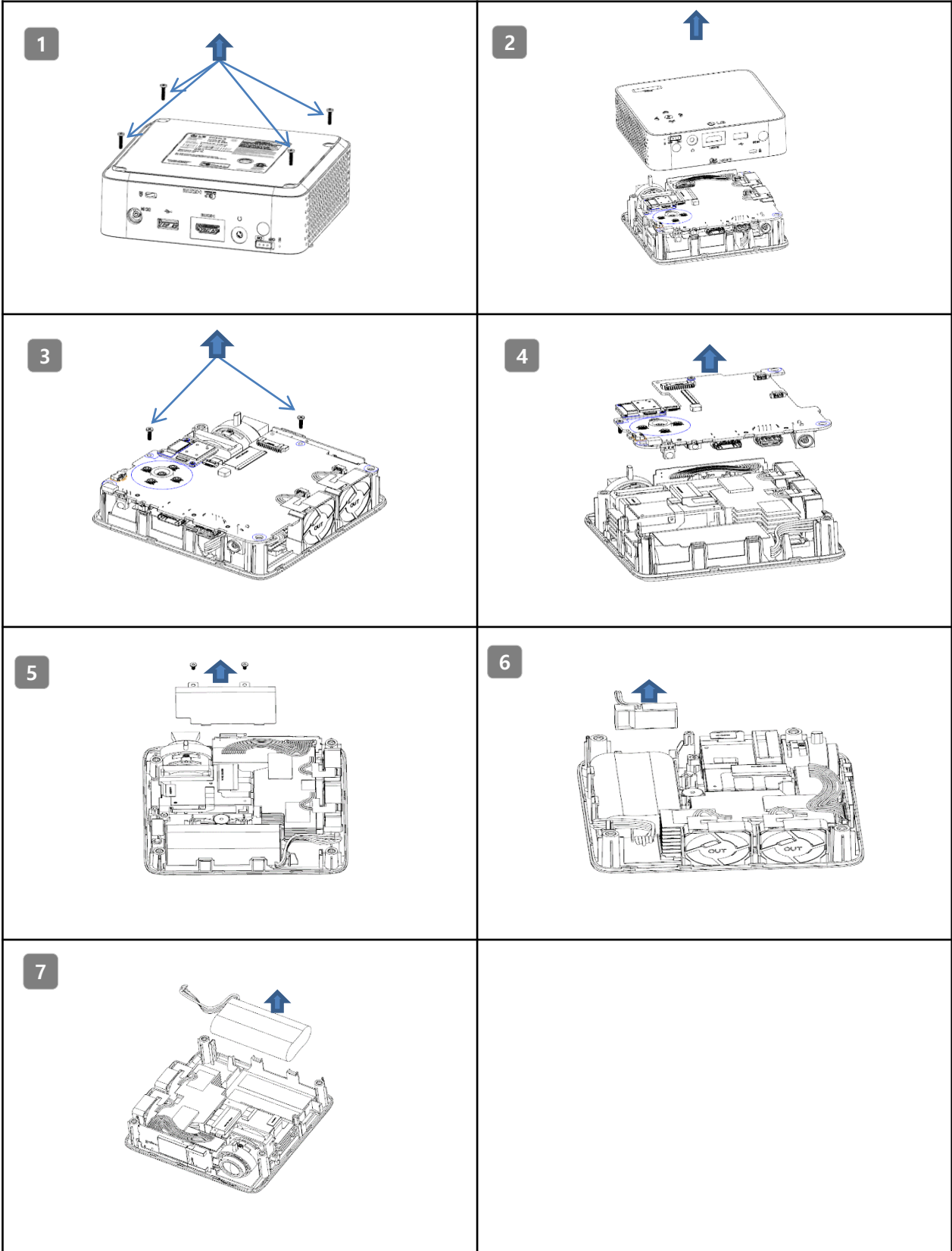


# 8. PF50KS / PF50KG

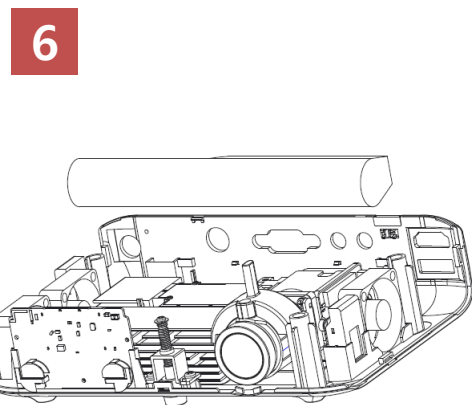
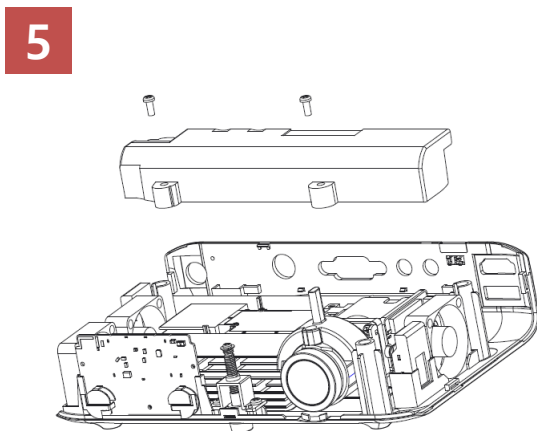
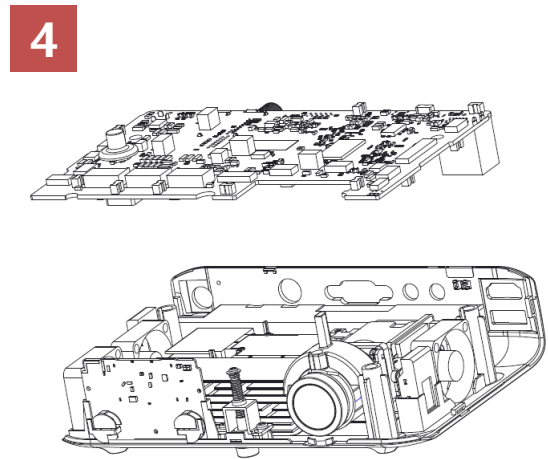
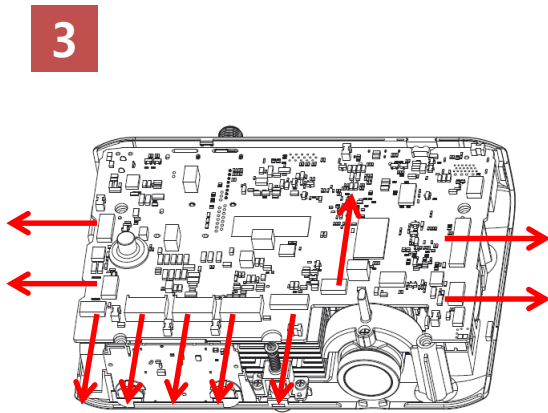
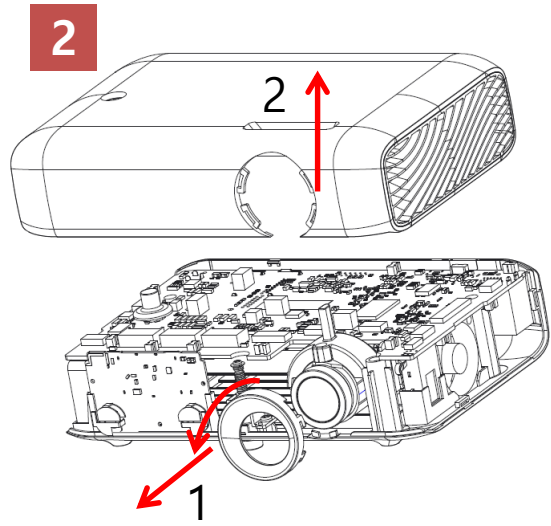
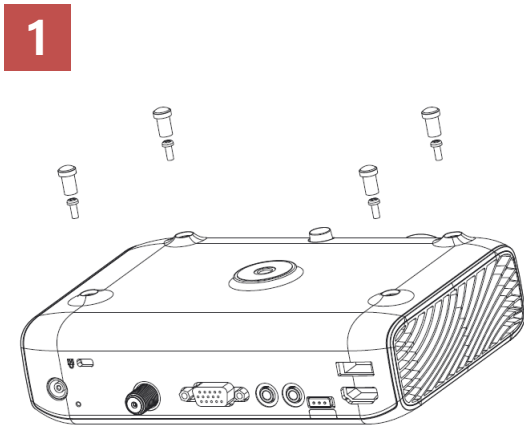




# 9. PH30N-GL

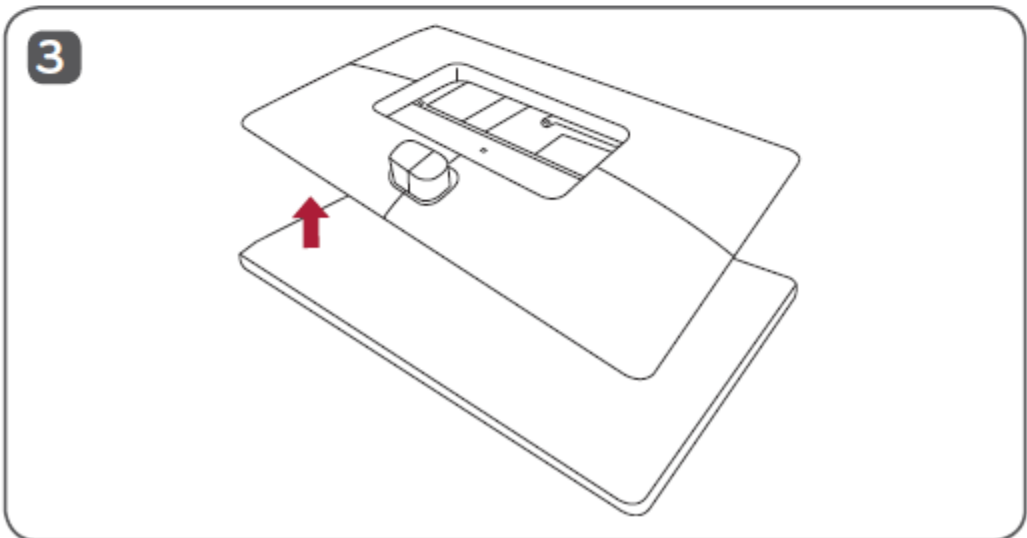
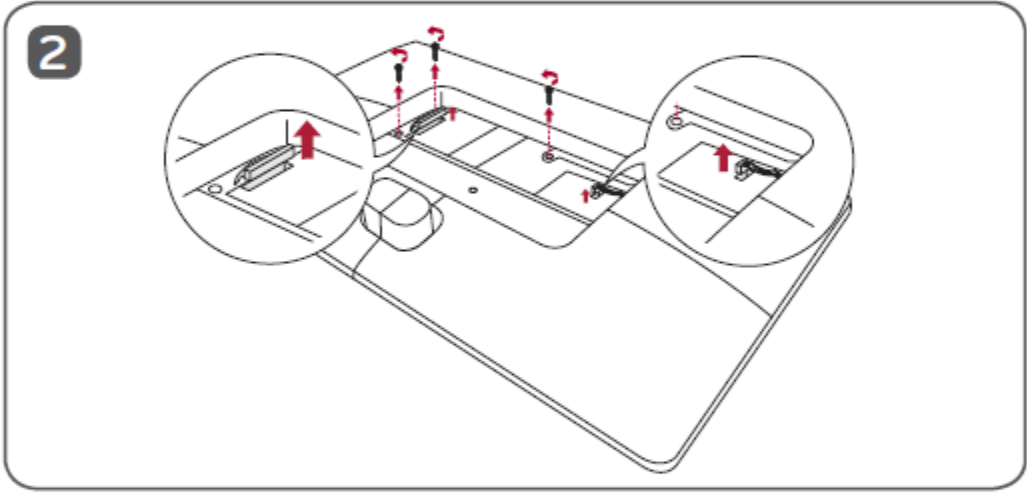
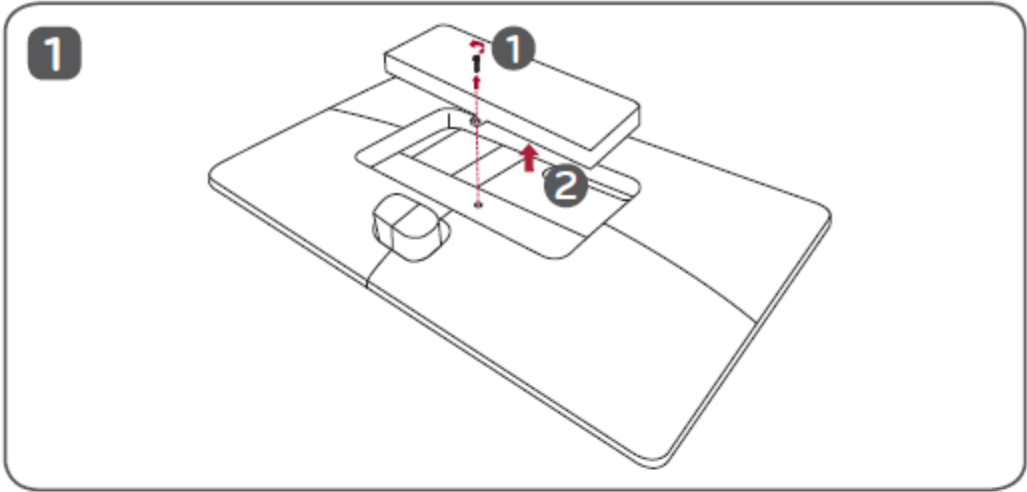


# 10. PH510PG-GL

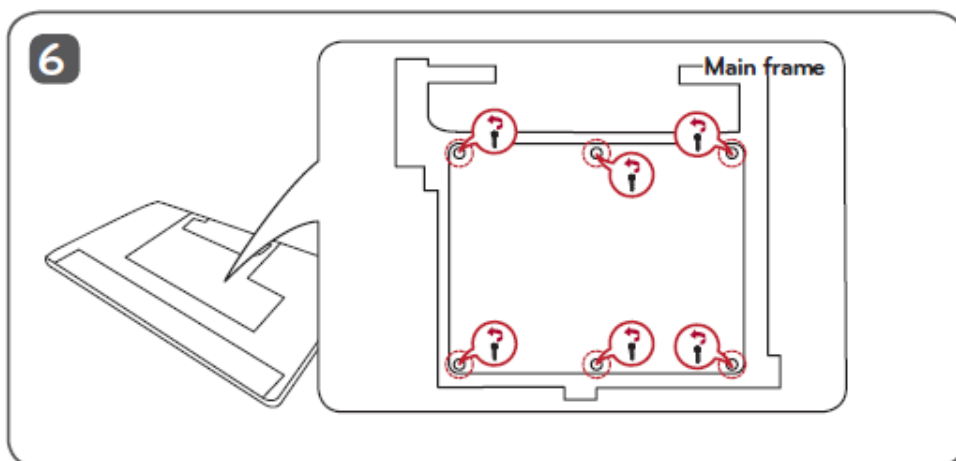
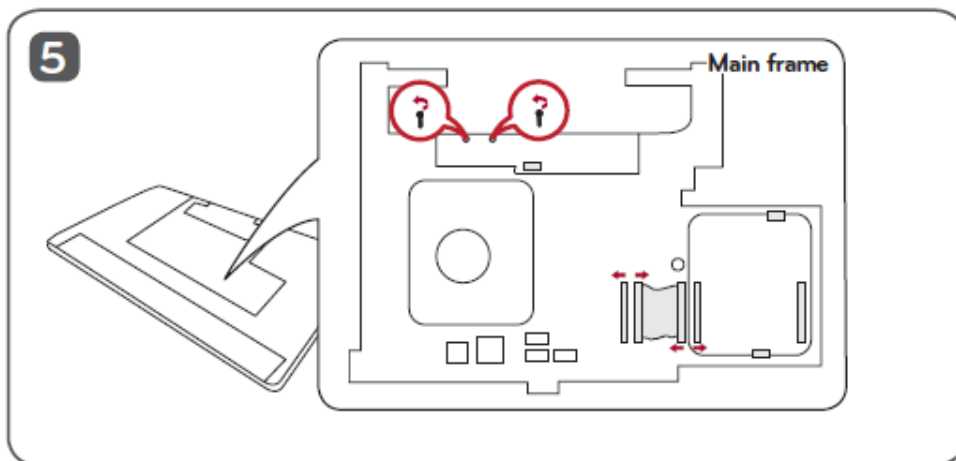
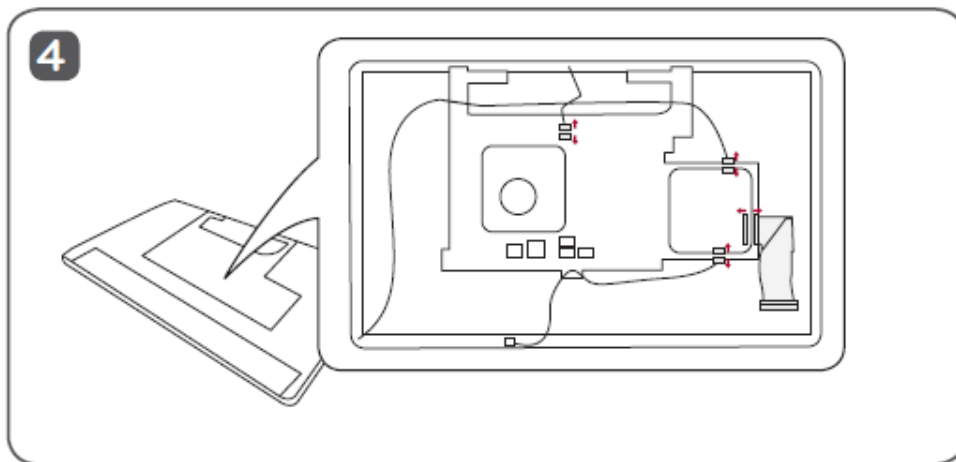


# IV. PC

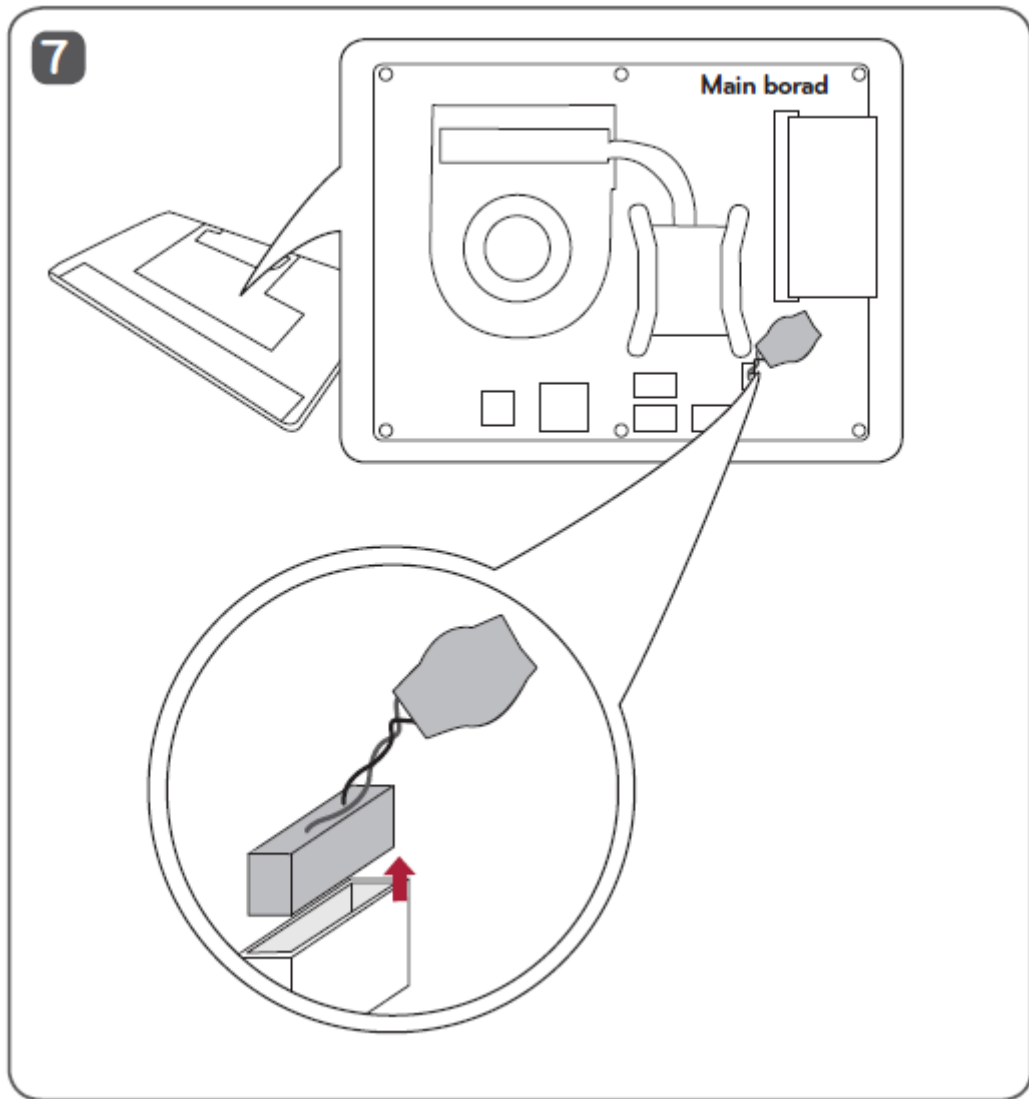
# 1. All-In-One Chromebase



# 1. All-In-One Chromebase



# 1. All-In-One Chromebase



# 2. 14Z960\_14Z950

01



02



03



04



05





# 3. 15Z960

01



02



03



04



05



## 4. 13Z940

---

01



02



03



04



05



# 5. 22V240 / 22V270

01



02



03



04



05



06



07



# 6. 24V360

01



02



03



04



05



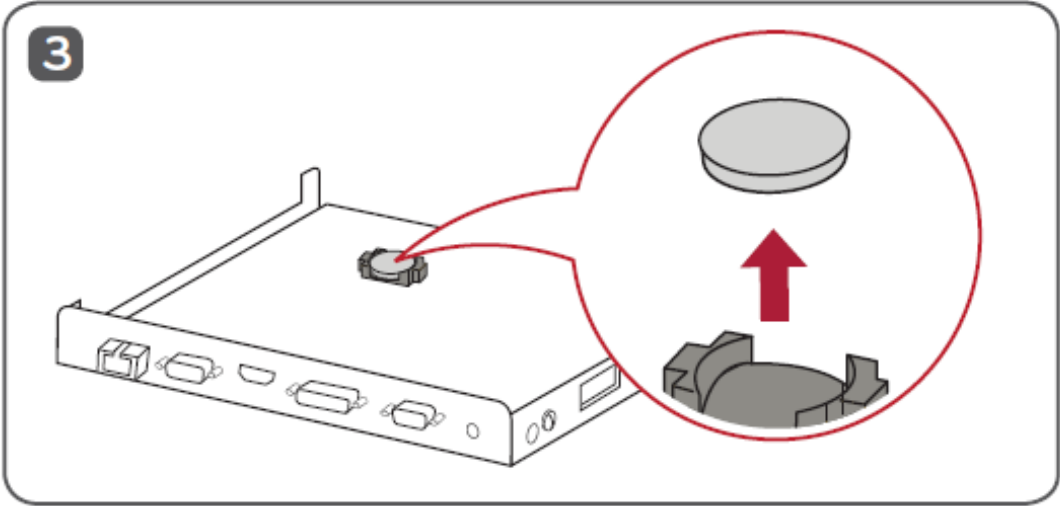
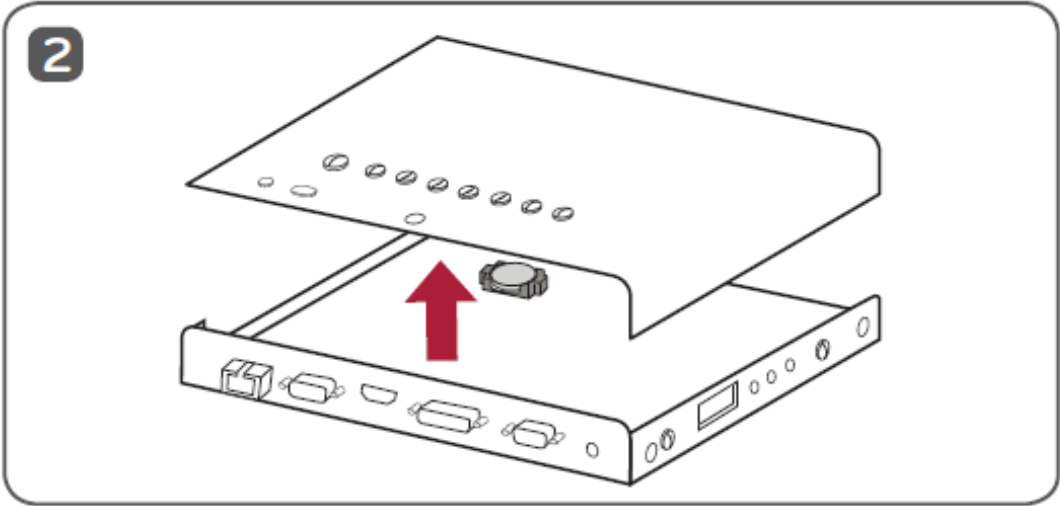
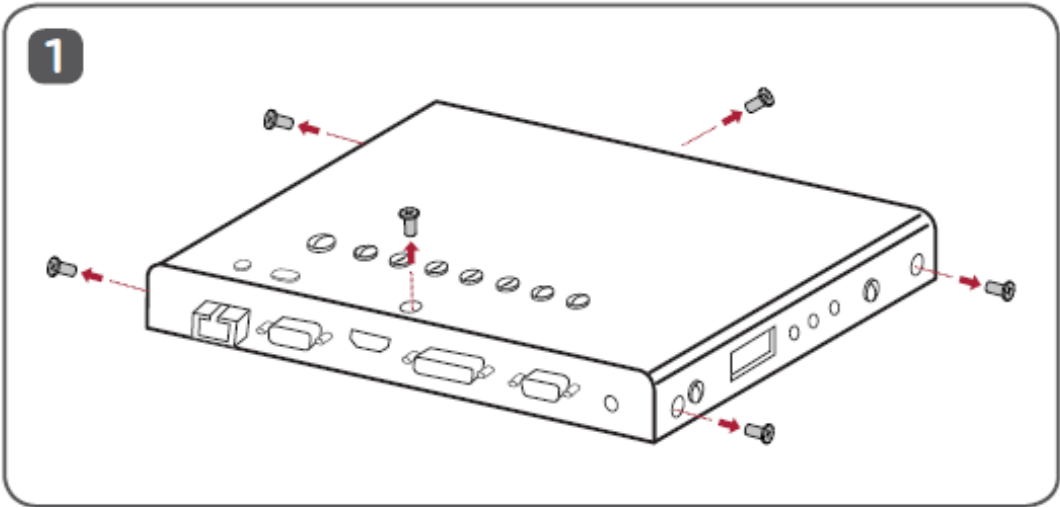
06



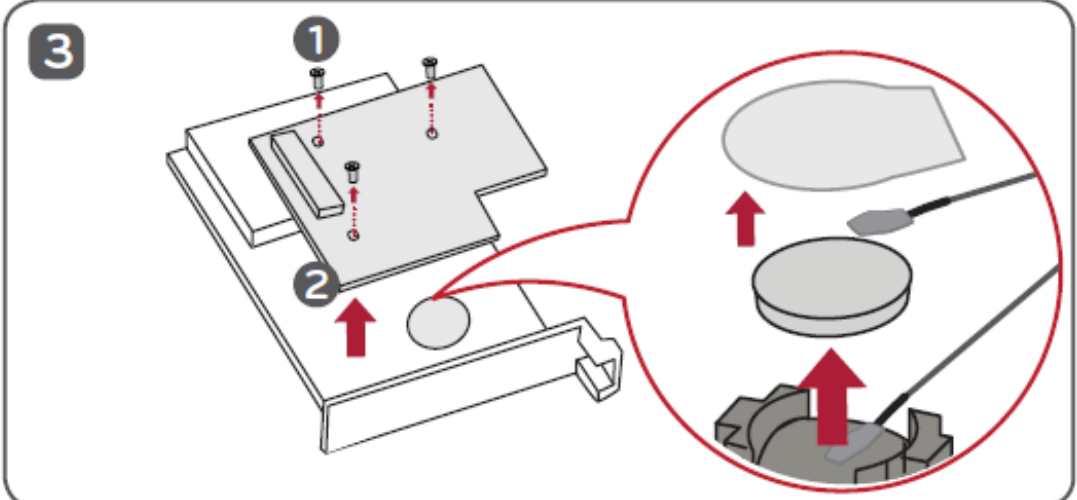
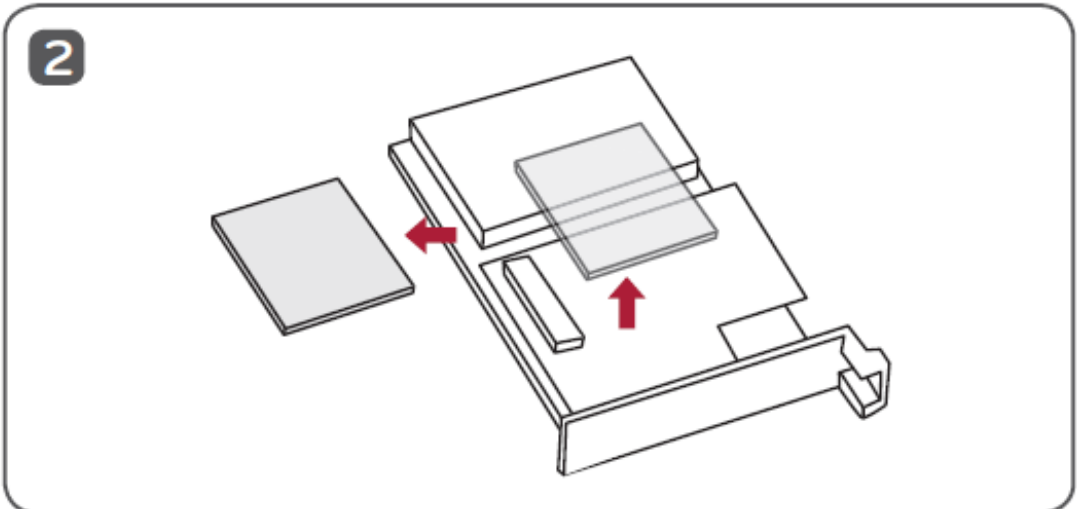
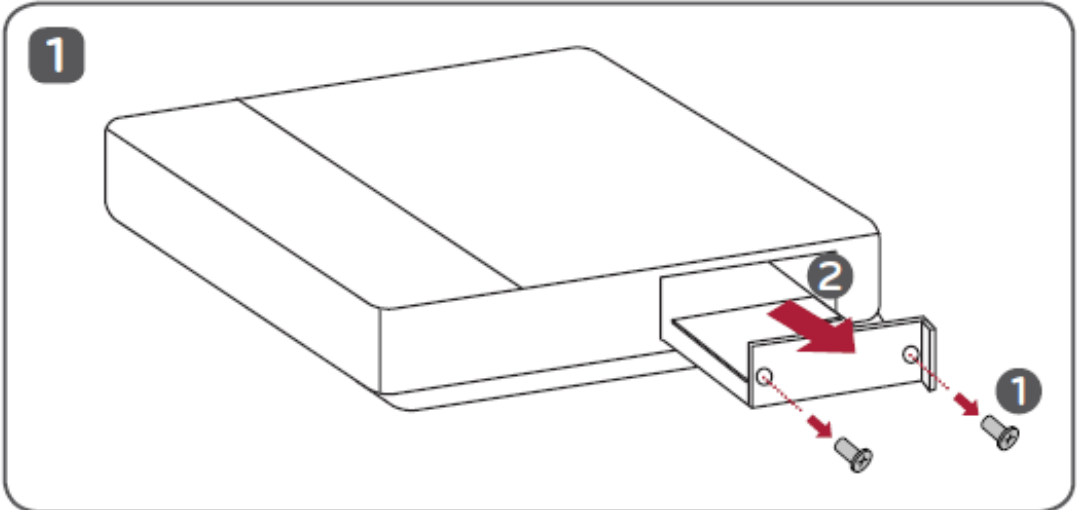
07



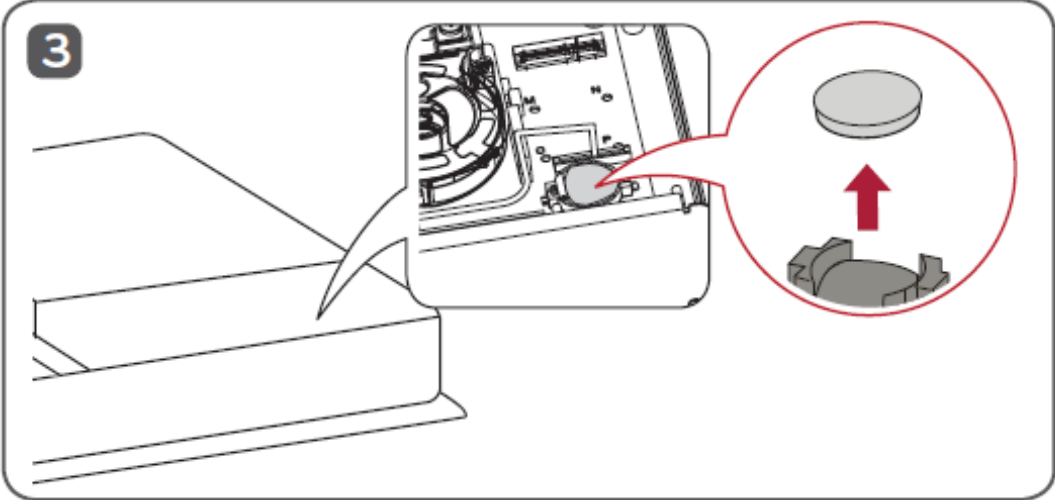
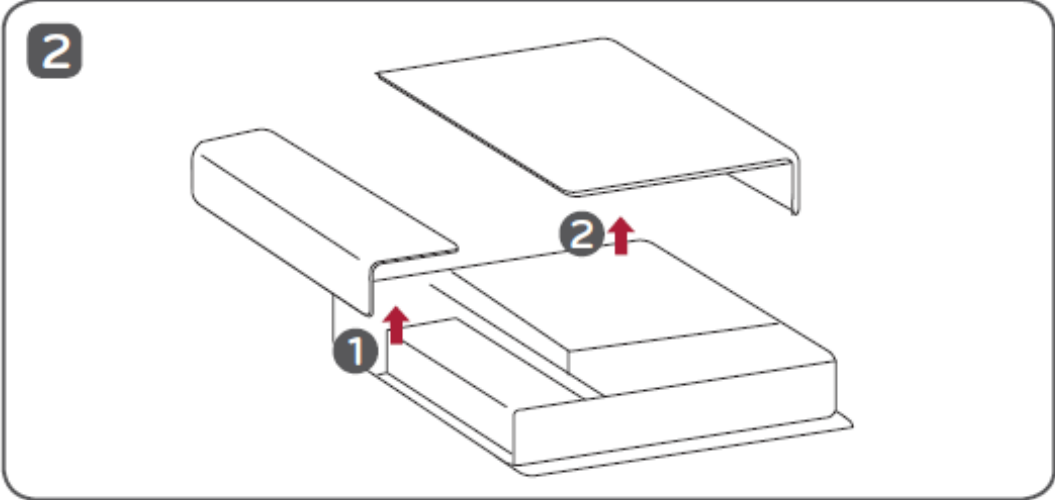
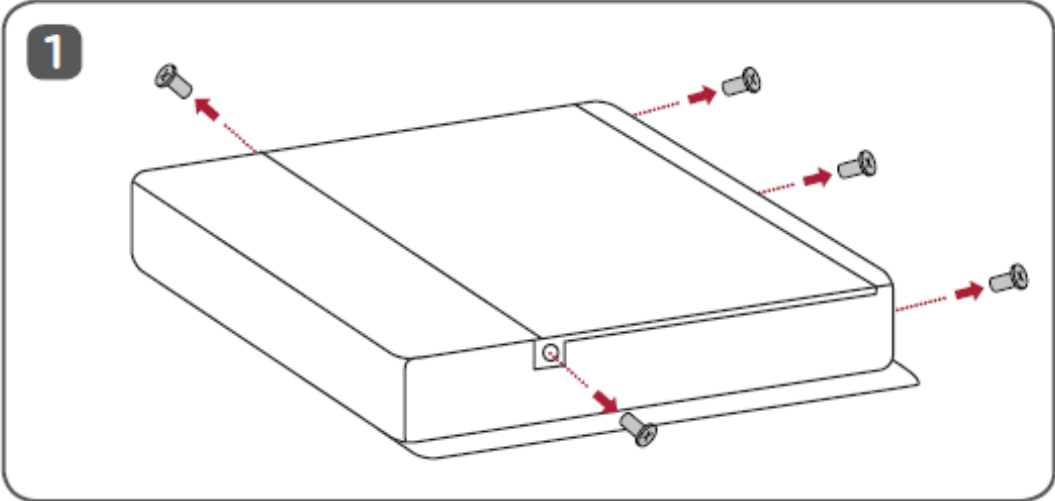
# 7. TSP500 / TSP510



# 8. MP500



# 9. MP700





# 10. 13Z970 / 14Z970 / 15Z970

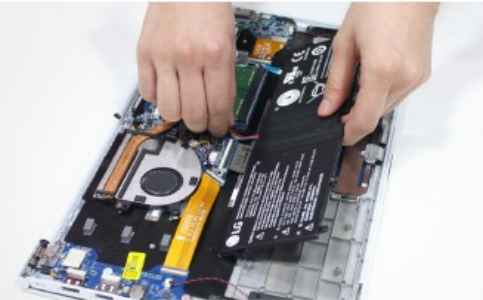
01



02



03



04

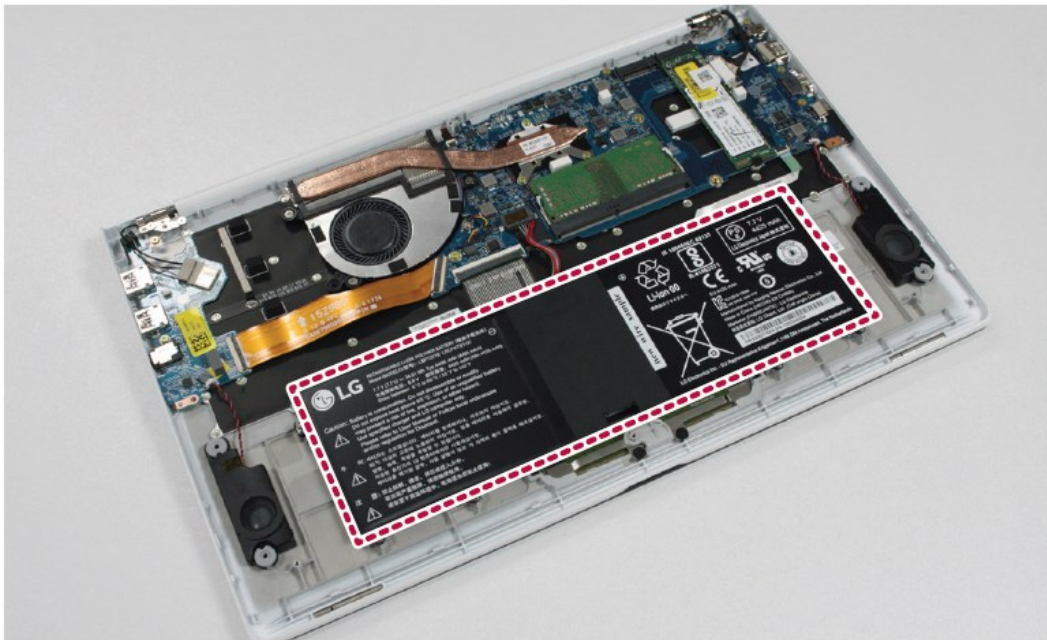


# 11. 13Z980 / 14Z980 / 15Z980

01

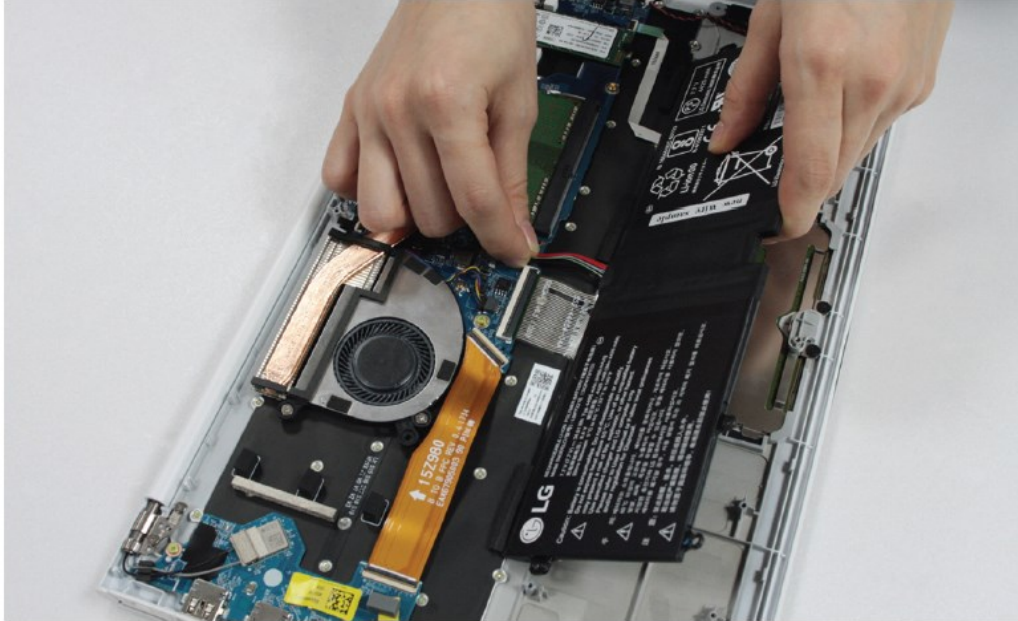


02

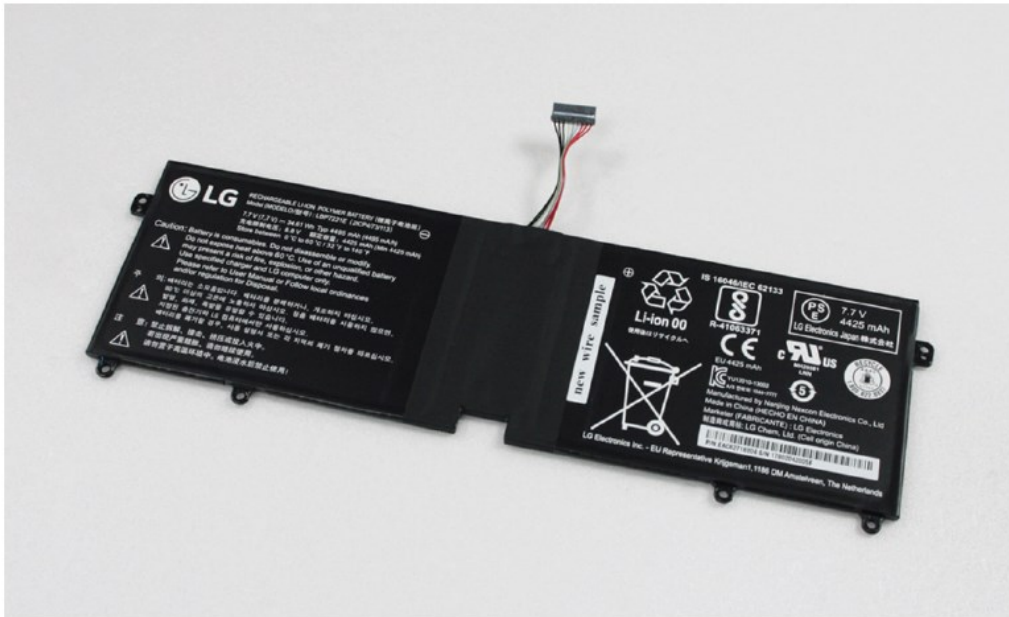


# 11. 13Z980 / 14Z980 / 15Z980

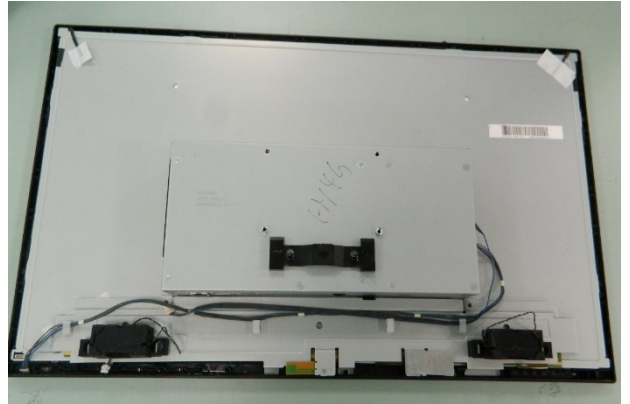
03



04



# 12. 24CK550





# 13. 14/15/17Z90N

01



02



03



04



# 14. 14T990/14T90N

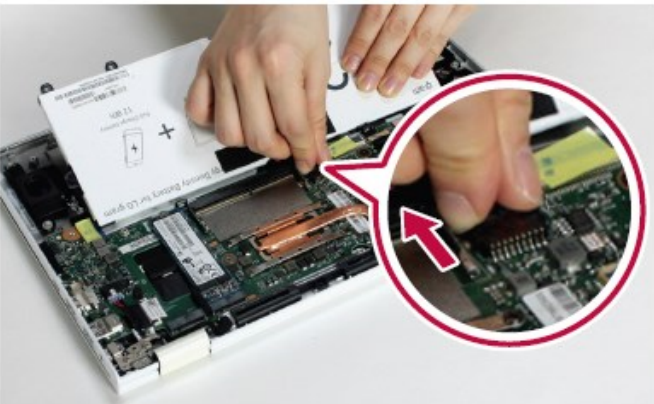
01



02



03



04



# 15. 17U70N/15U70N

01



02



03



04



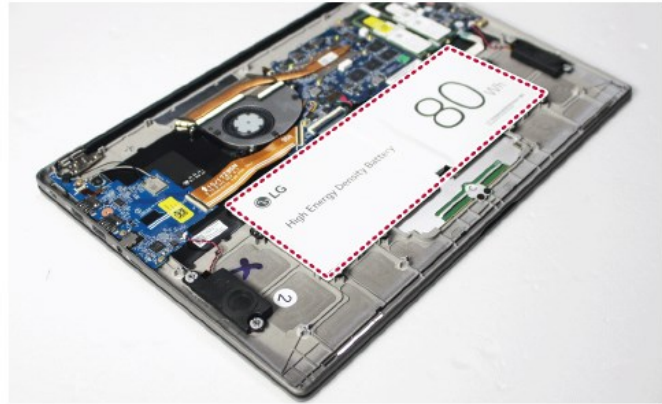


# 16. 15Z95N/17Z95N

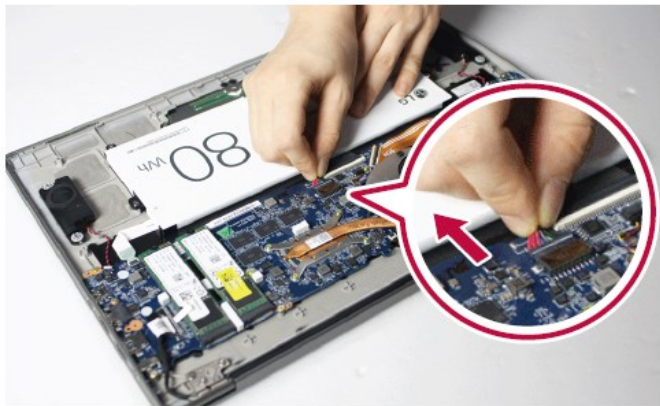
01



02



03



04



# 17. 14/16/17Z90P

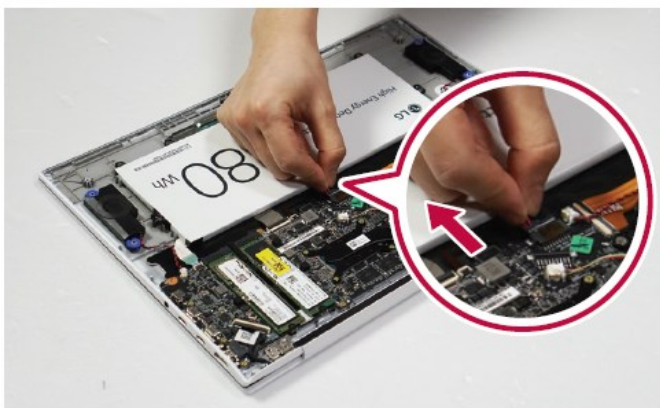
01



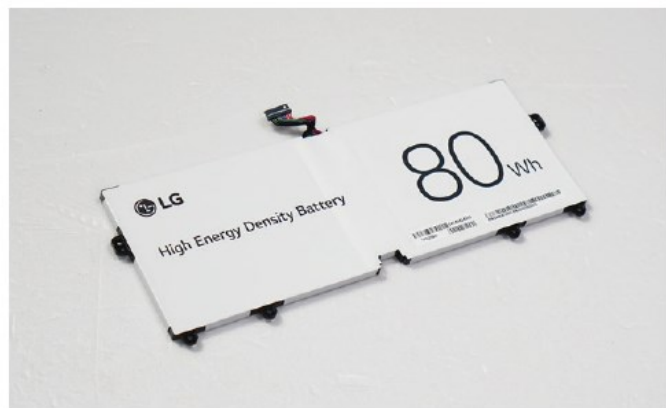
02



03



04



# 18. 14/16T90P, 14/16T90Q

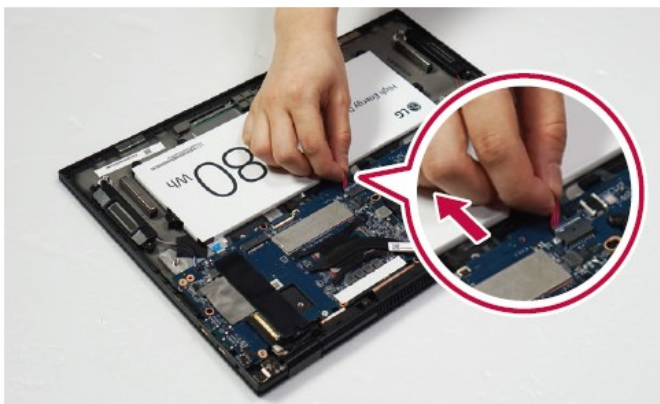
01



02



03



04



# 19. 15U70P

01



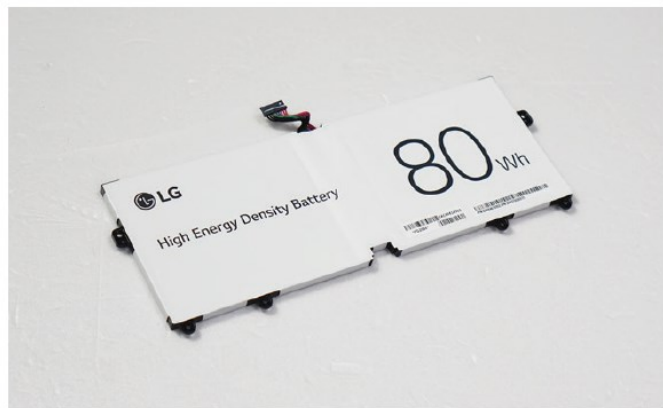
02



03



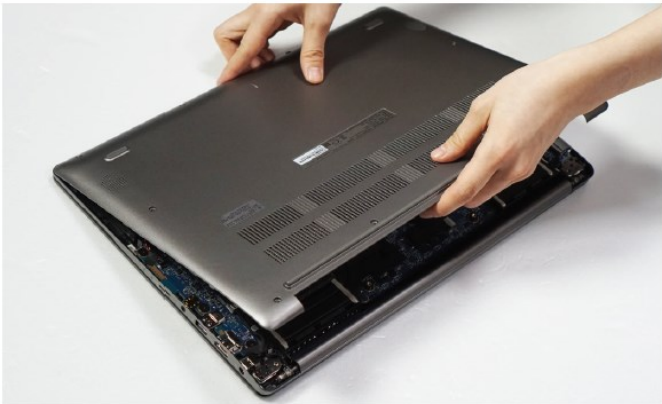
04





# 20. 17U70P / 17U70Q

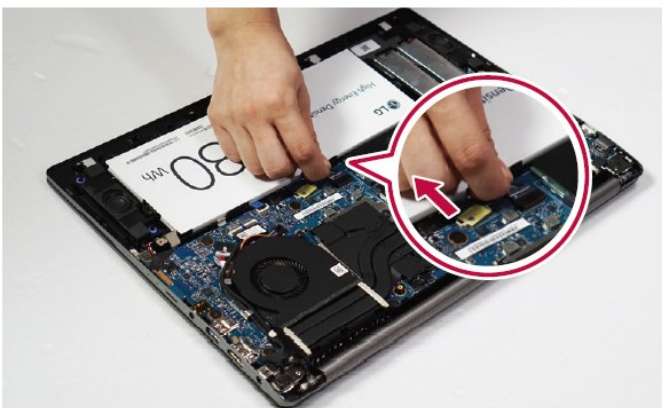
01



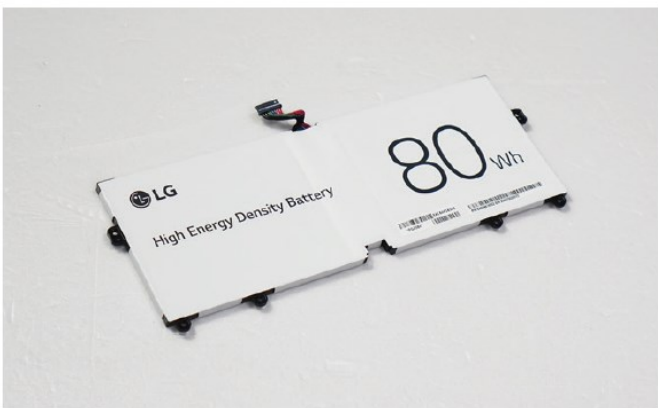
02



03



04



# 21. 13U70P / 13U70Q

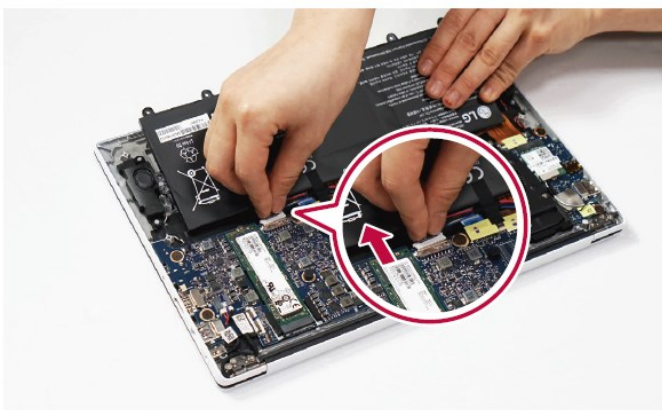
01



02



03



04

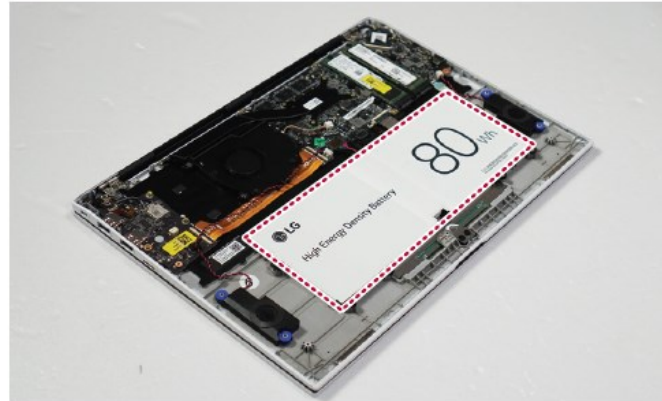


## 22. 14/15/16/17Z90P, 14/15ZT90P, 14/15/16/17Z95P, 14/15/16/17Z90Q

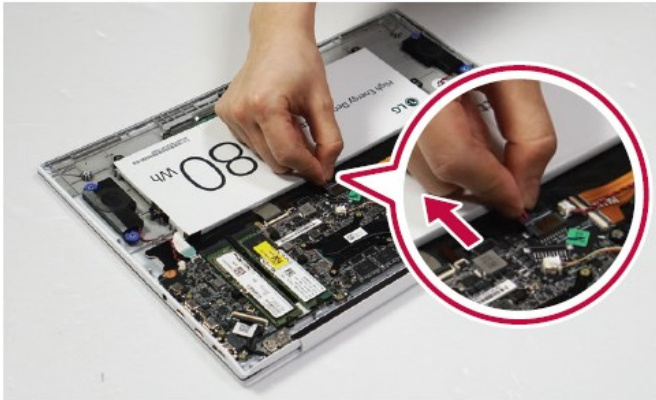
01



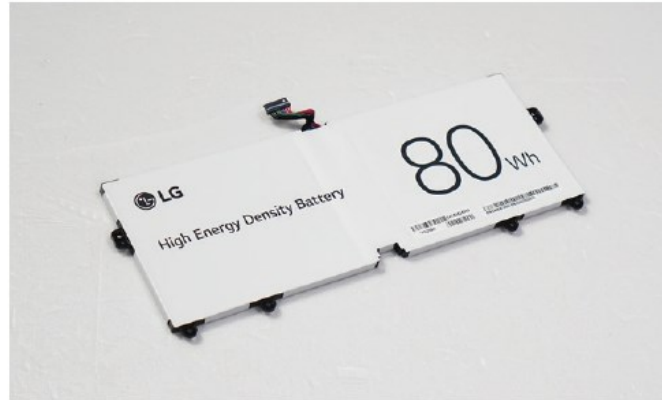
02



03



04





# 23. 14/16U70Q

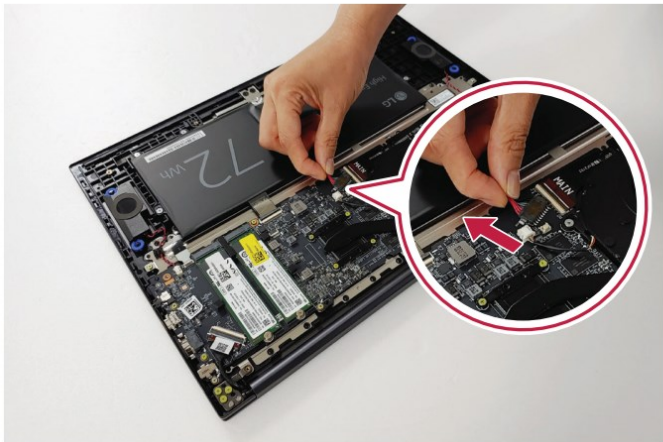
01



02



03

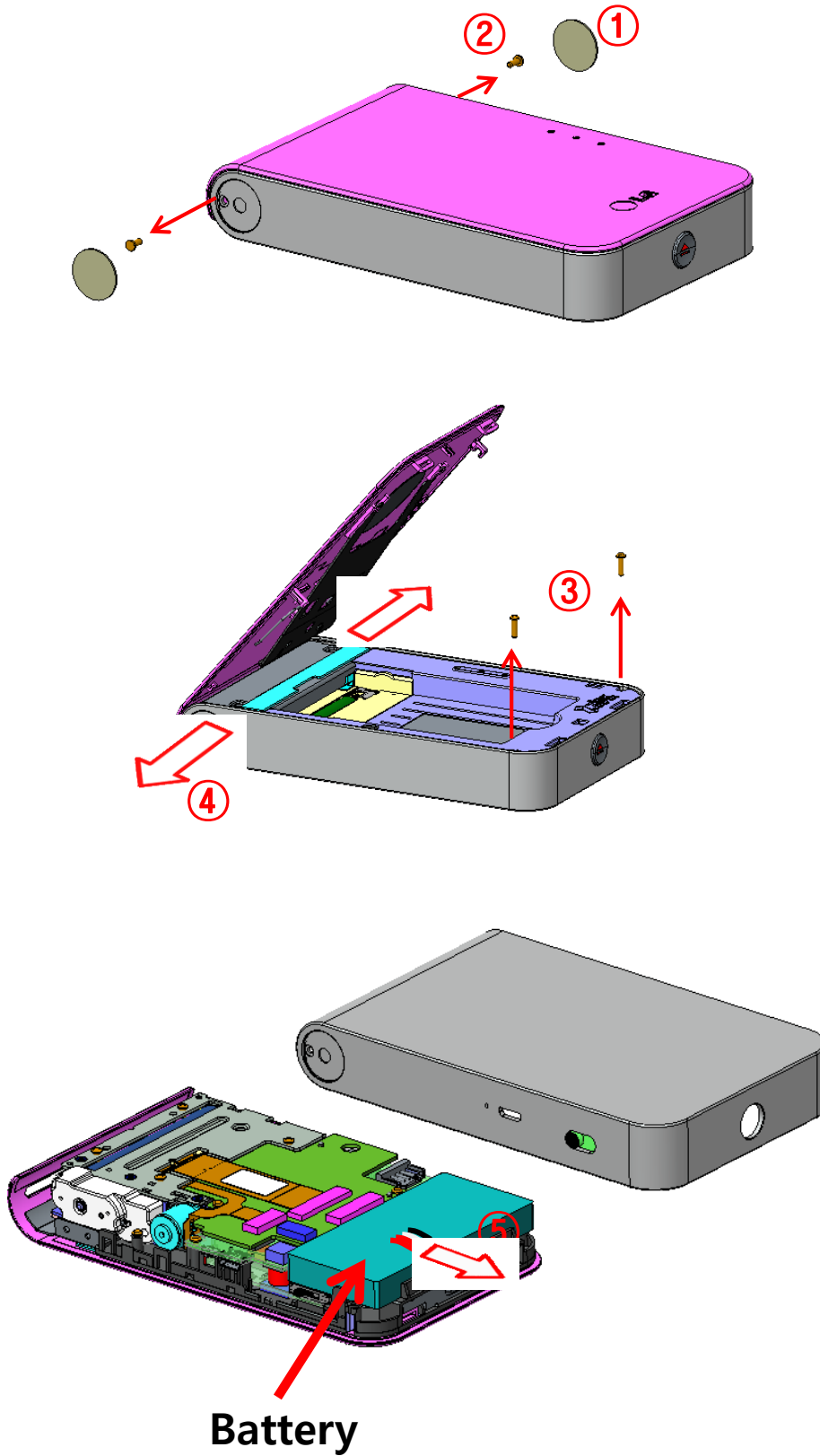


04

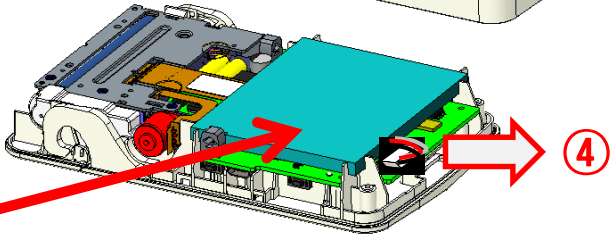
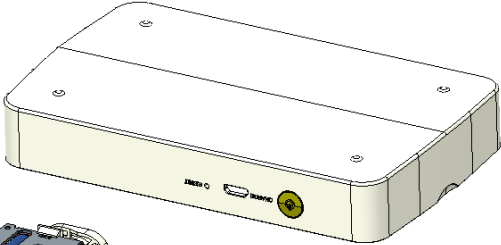
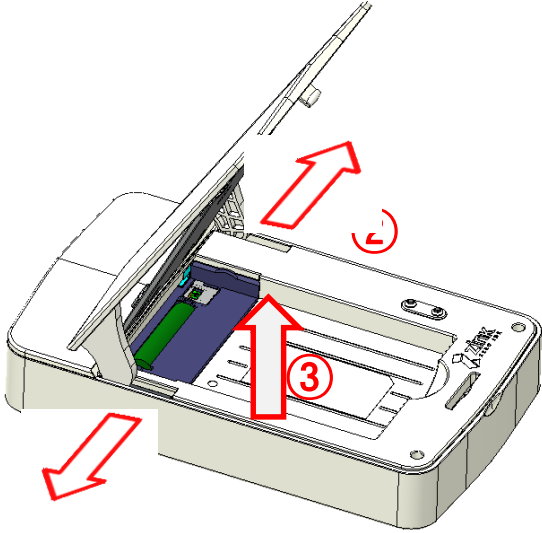
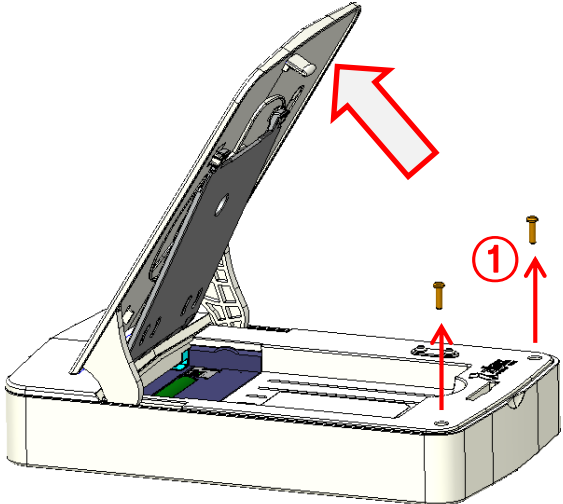


# V. Printer

# 1. PD239

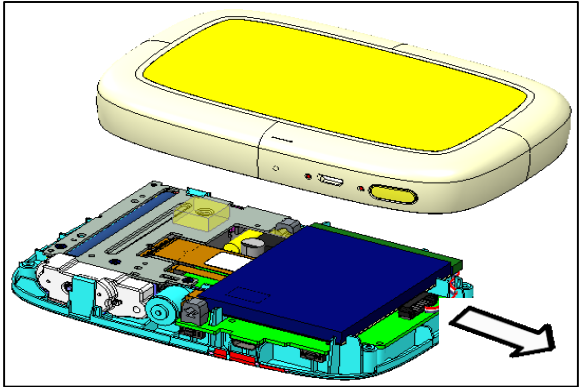
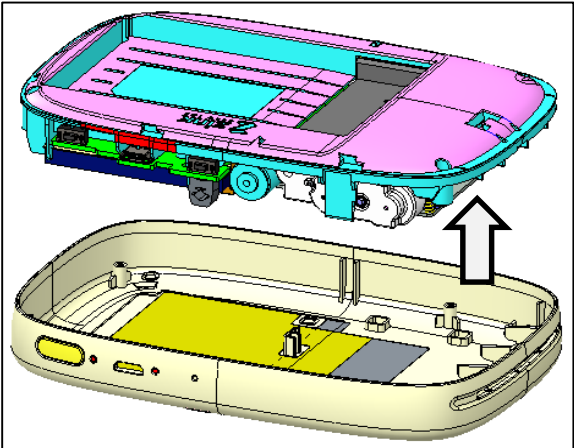
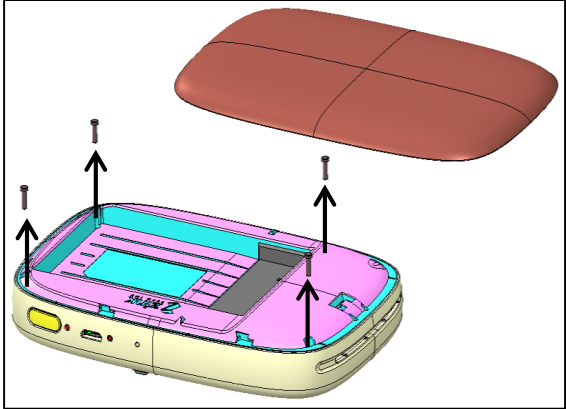


# 2. PD251 / PD261



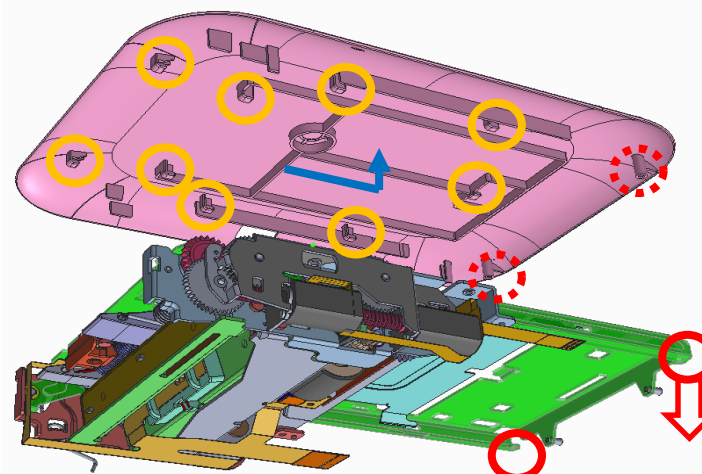
**Battery**

# 3. PD269



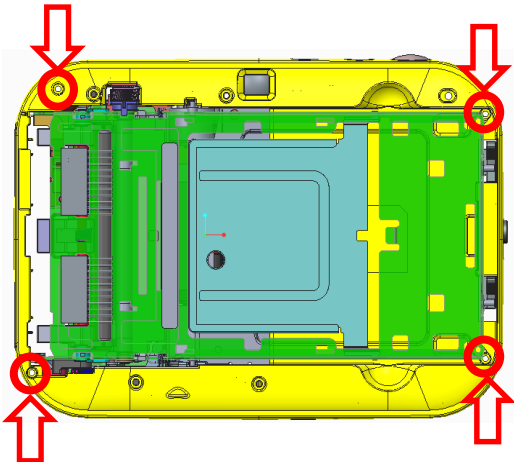
# 4. PC389

Hook 9 points

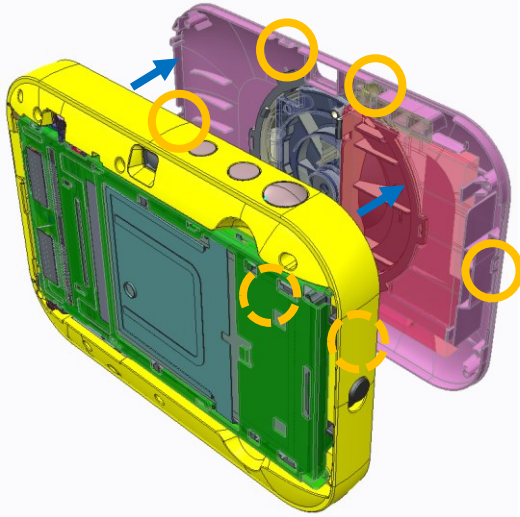


Screw 2 point

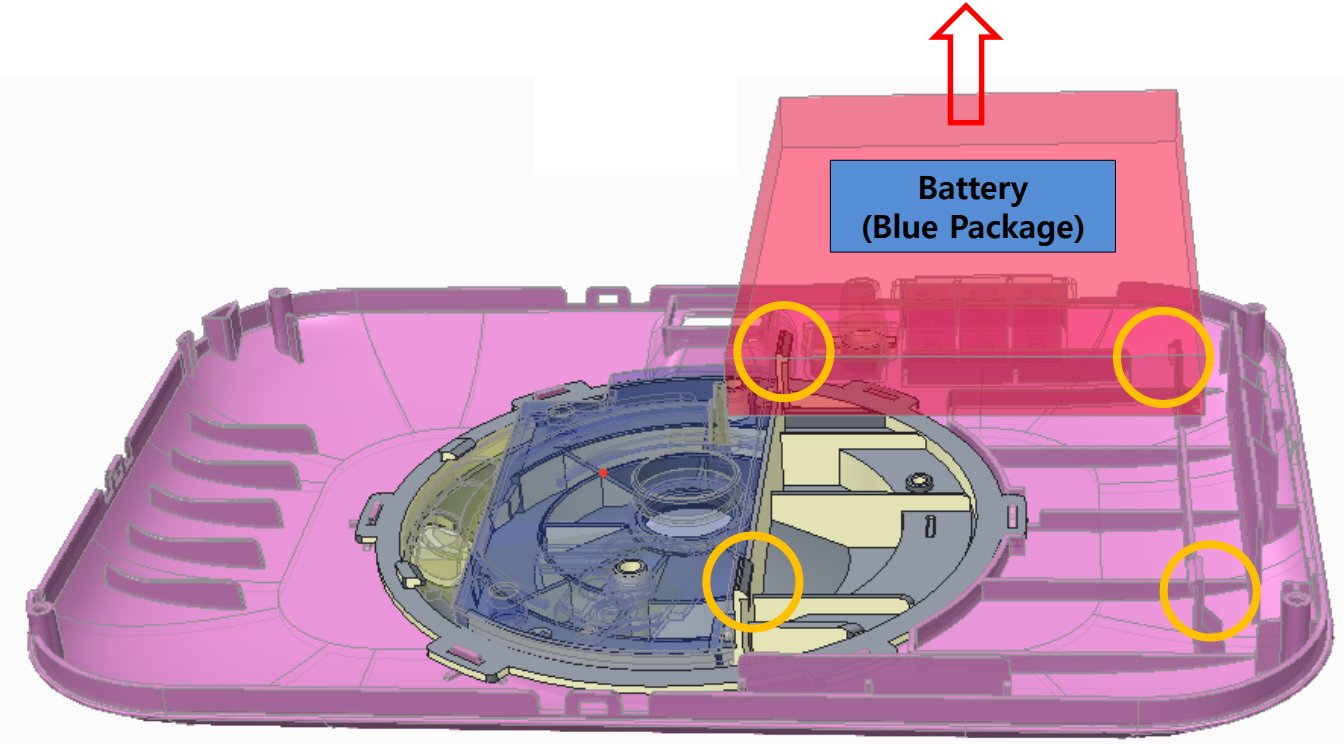
Screw 4 points



Hook 6 points



# 4. PC389



Hook 4 points

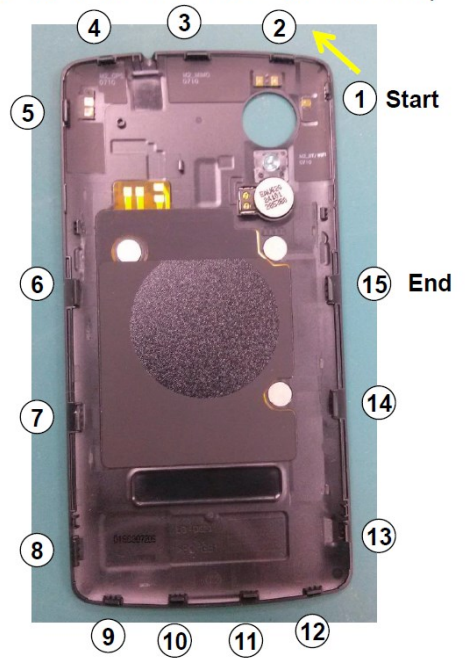
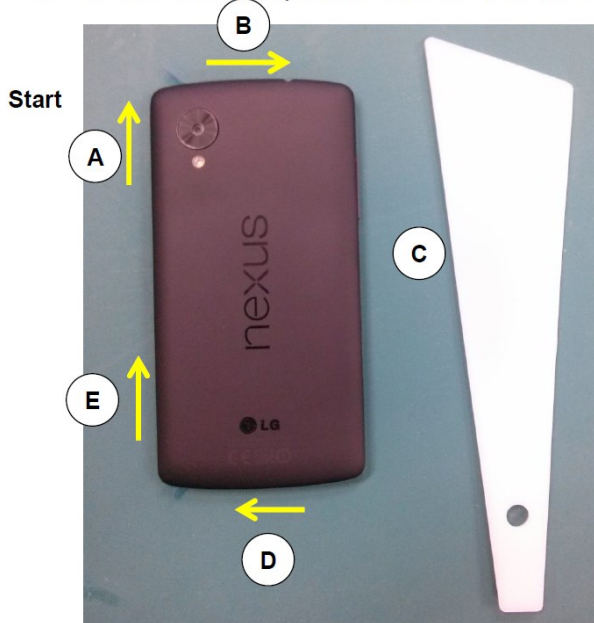


# VI. Mobile

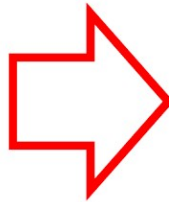
# 1. LGD820 / 821



A → B → C → D → E (Hook 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 → 9 → 10 → 11 → 12 → 13 → 14 → 15)



# 1. LGD820 / 821





## 2. LGD955



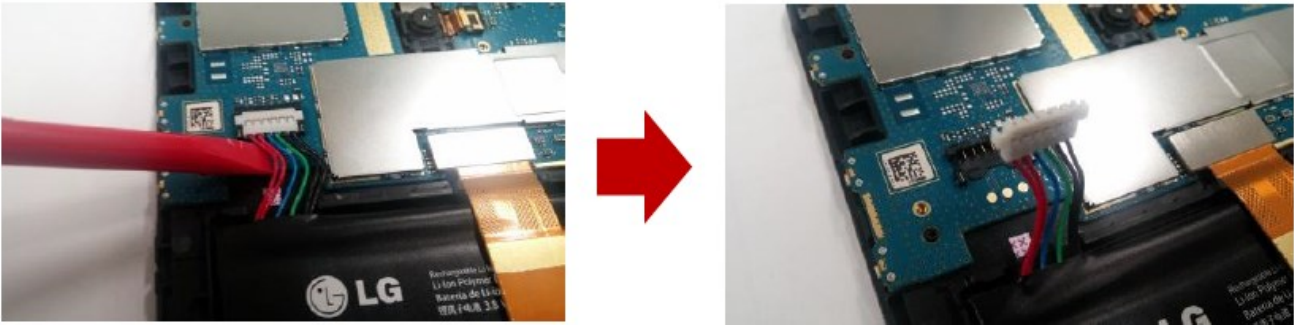
\* Unhook direction



# 2. LGD955

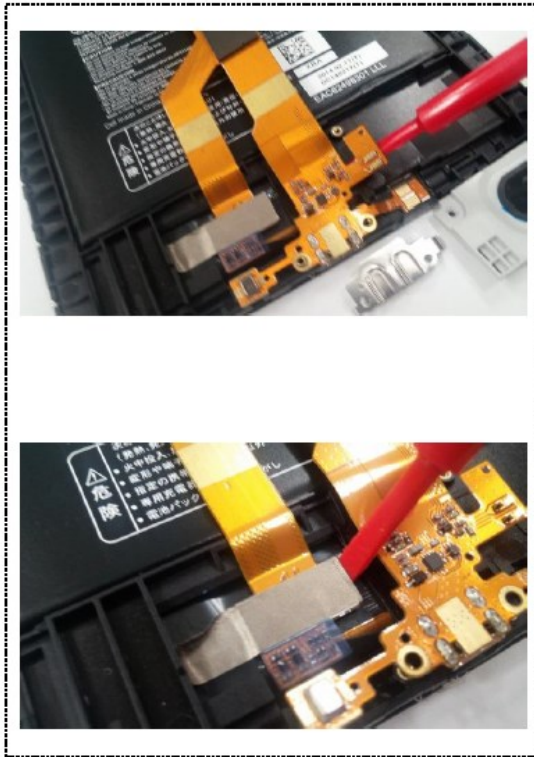


# 3. LGV400





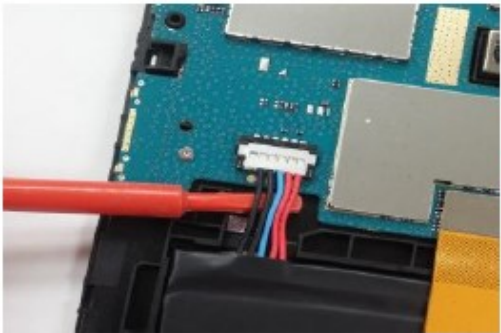
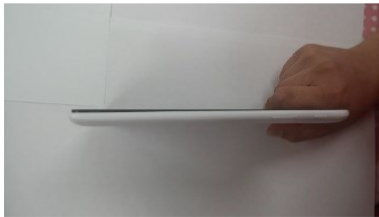
### 3. LGV400



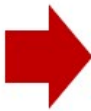
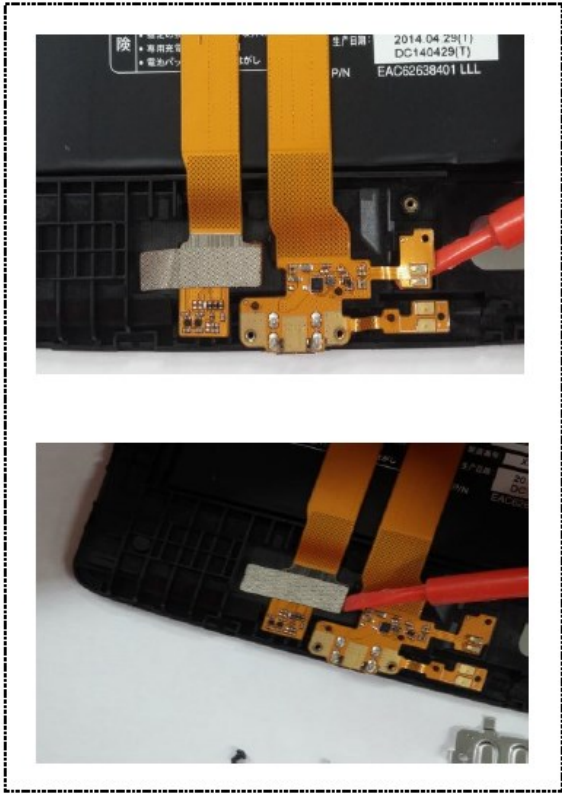
Disassemble battery pack by tool. (The principle of the lever)



# 4. LGV480

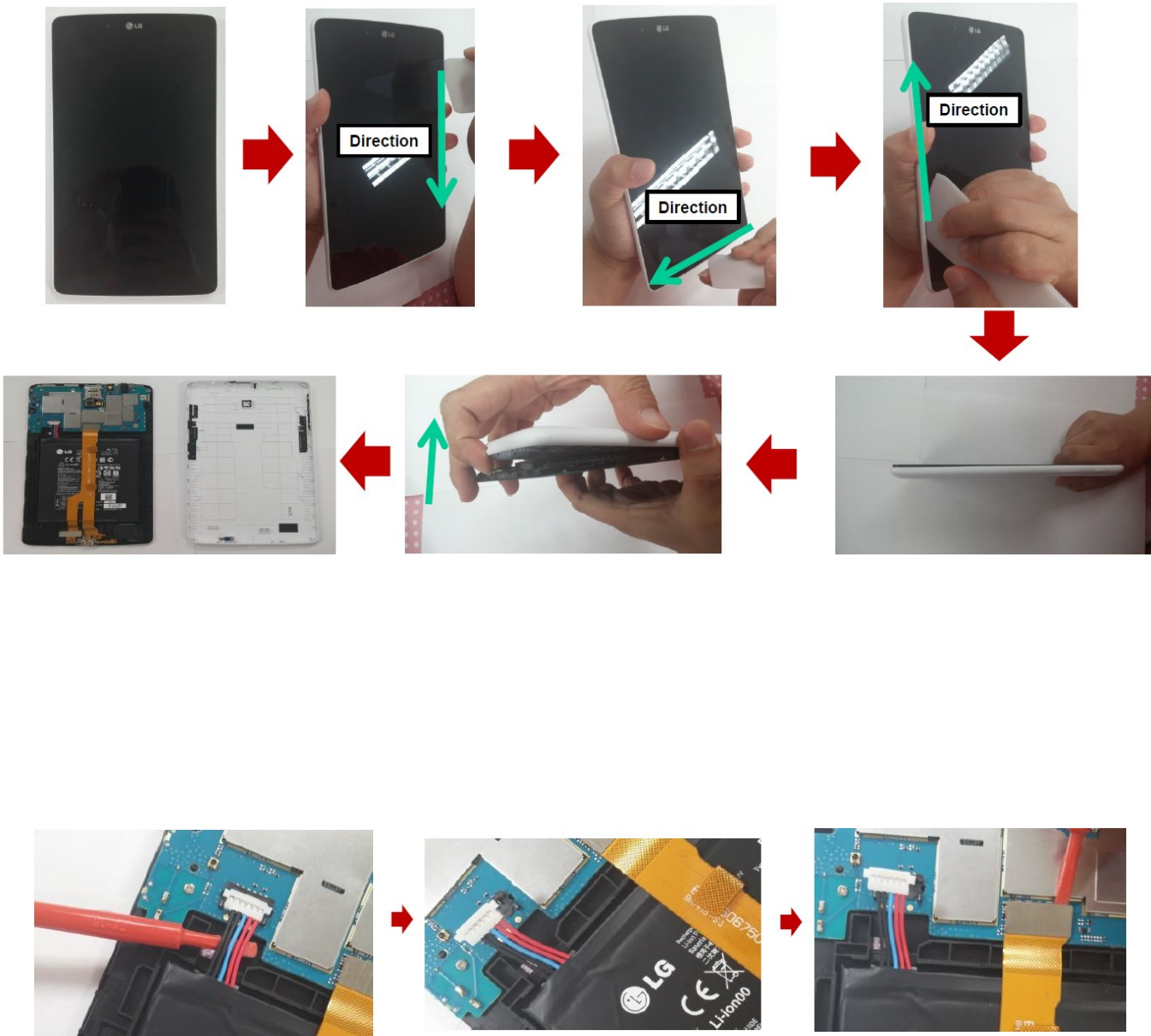


# 4. LGV480



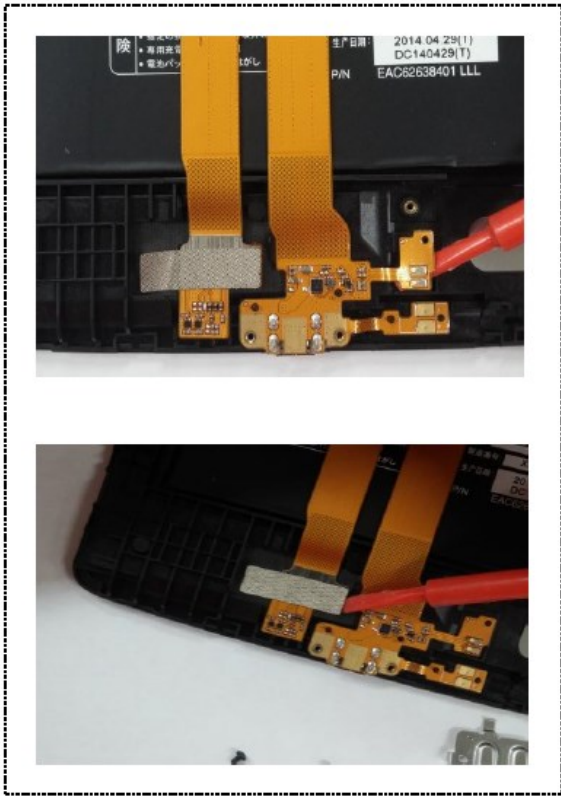
Disassemble battery pack by tool. (The principle of the lever)

# 5. LGV490

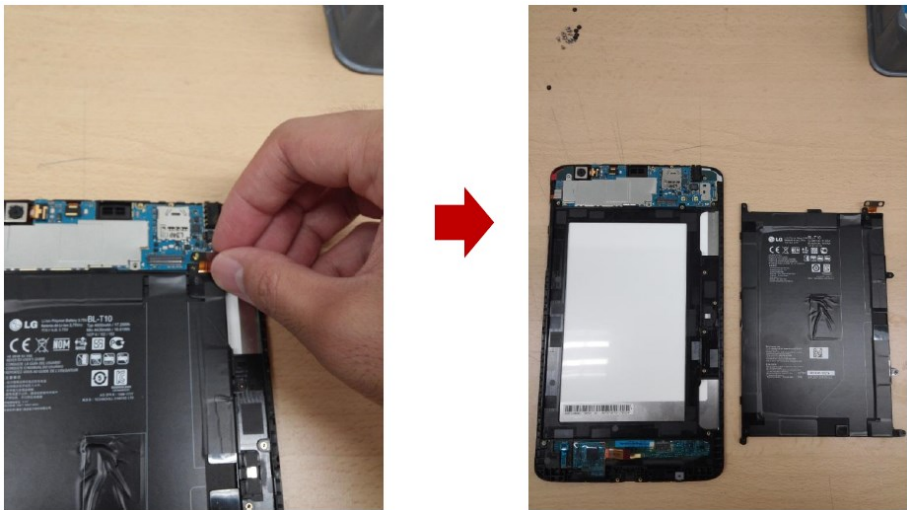
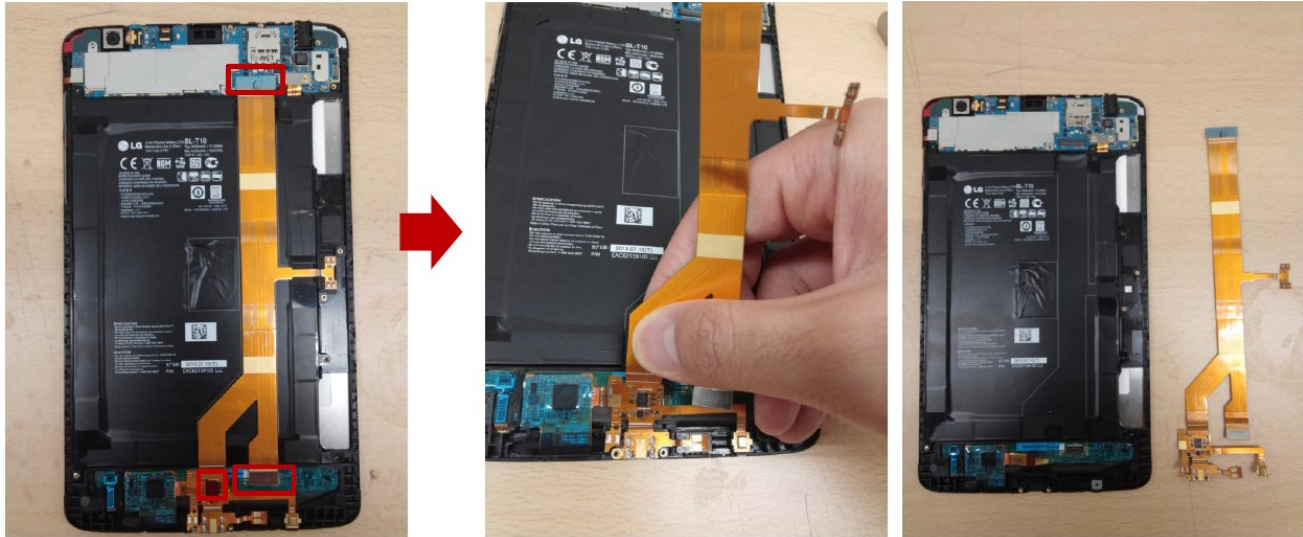
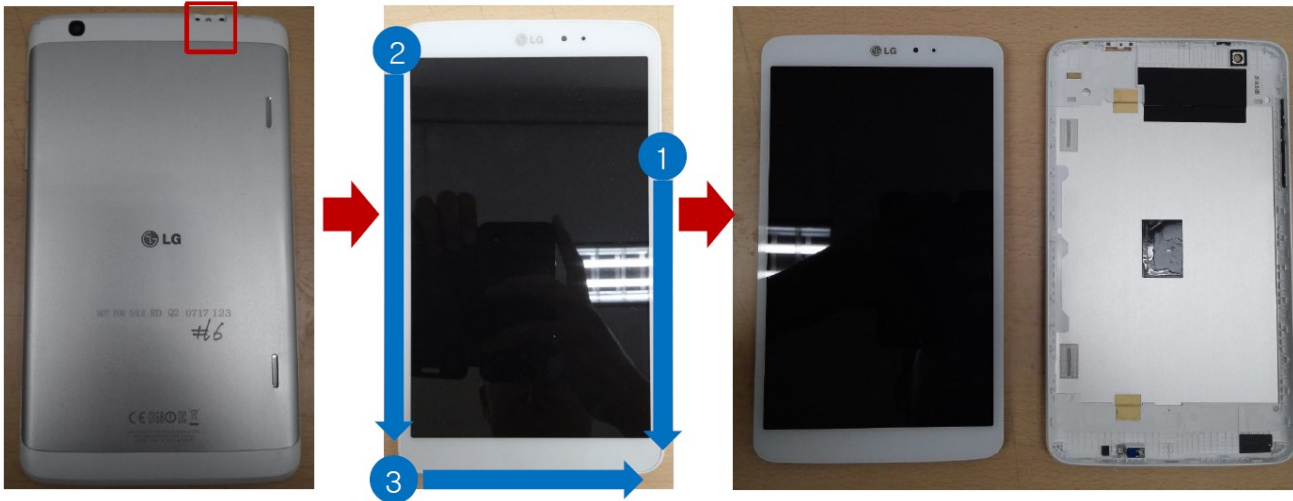




# 5. LGV490

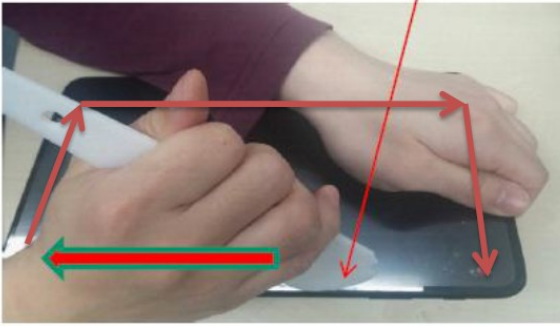


# 6. LGV500



# 7. LGV700

Volume Key

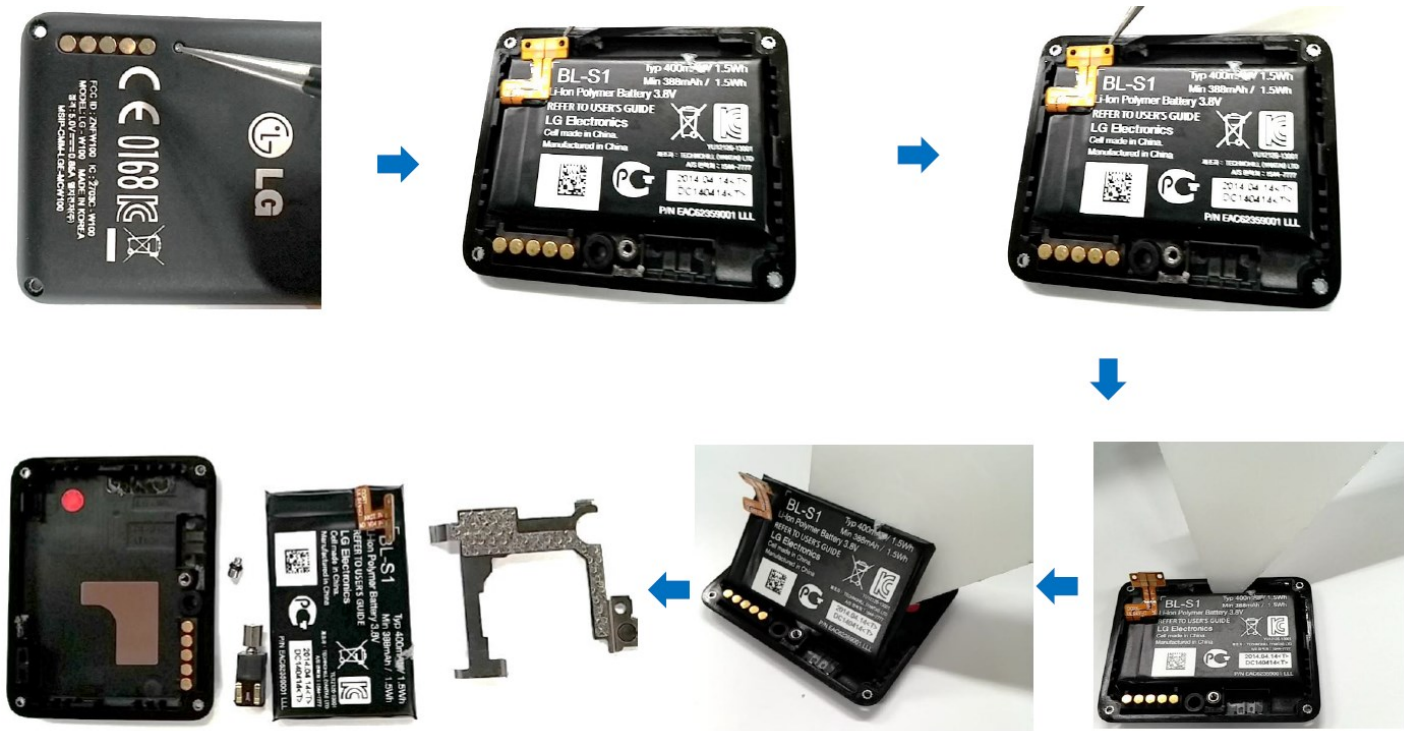




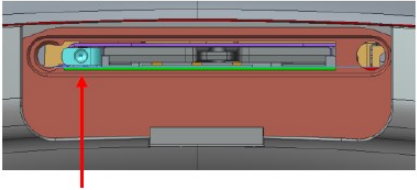
# 8. LGW100



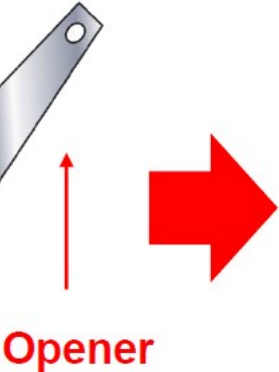
# 8. LGW100



# 9. LGW105E



Push Point

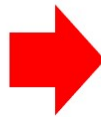
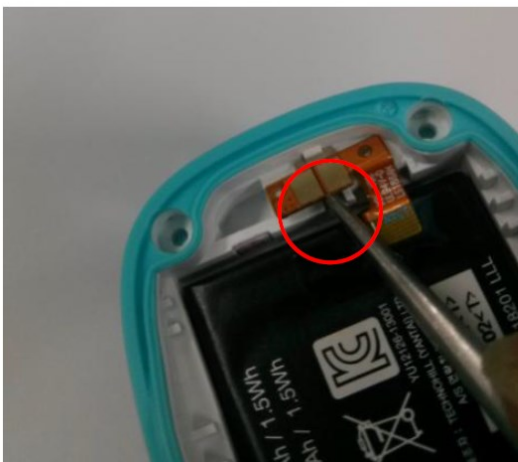
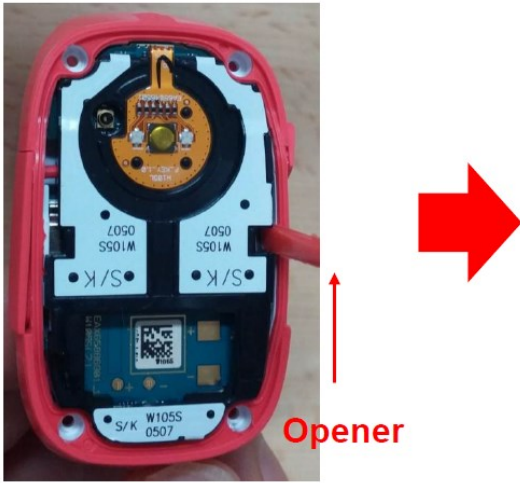


Opener

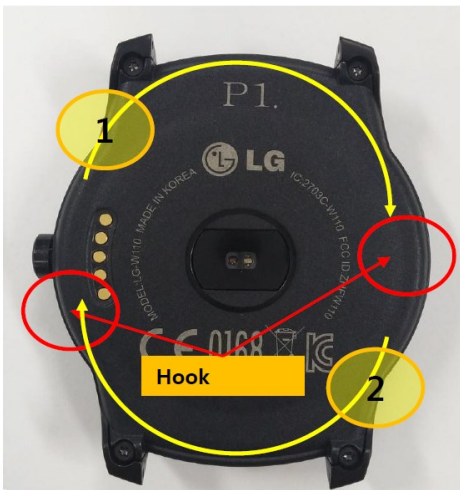




# 9. LGW105E



# 10. LGW110



# 10. LGW110



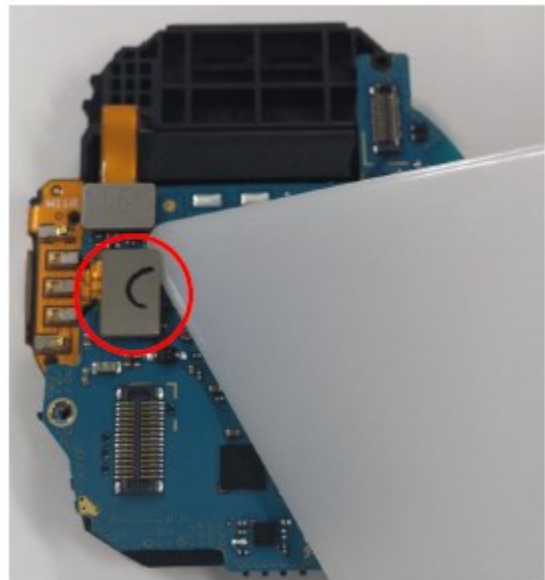
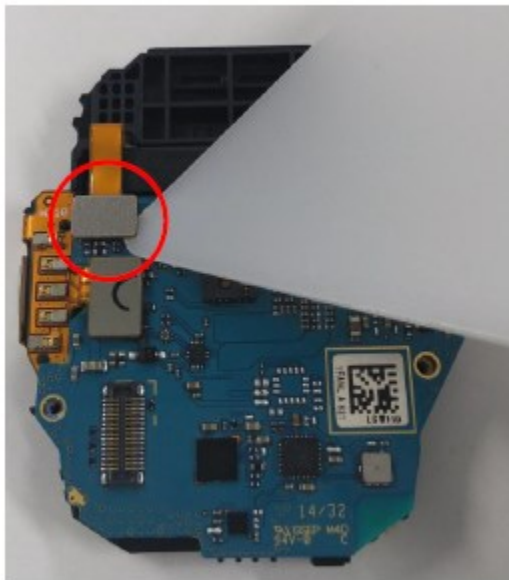
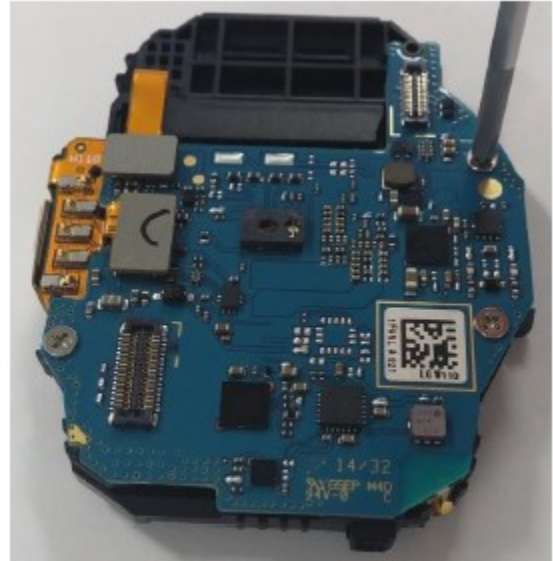
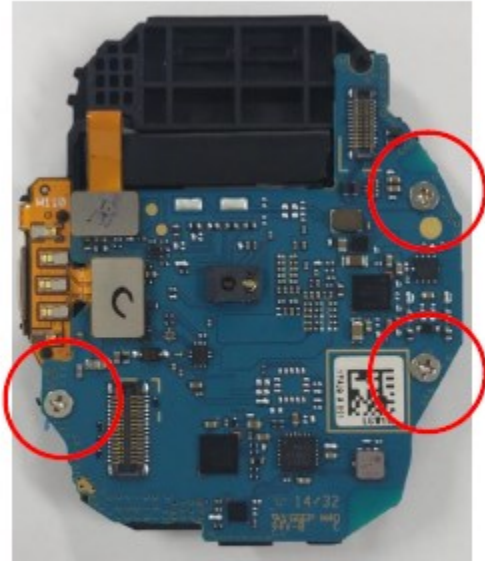


# 10. LGW110

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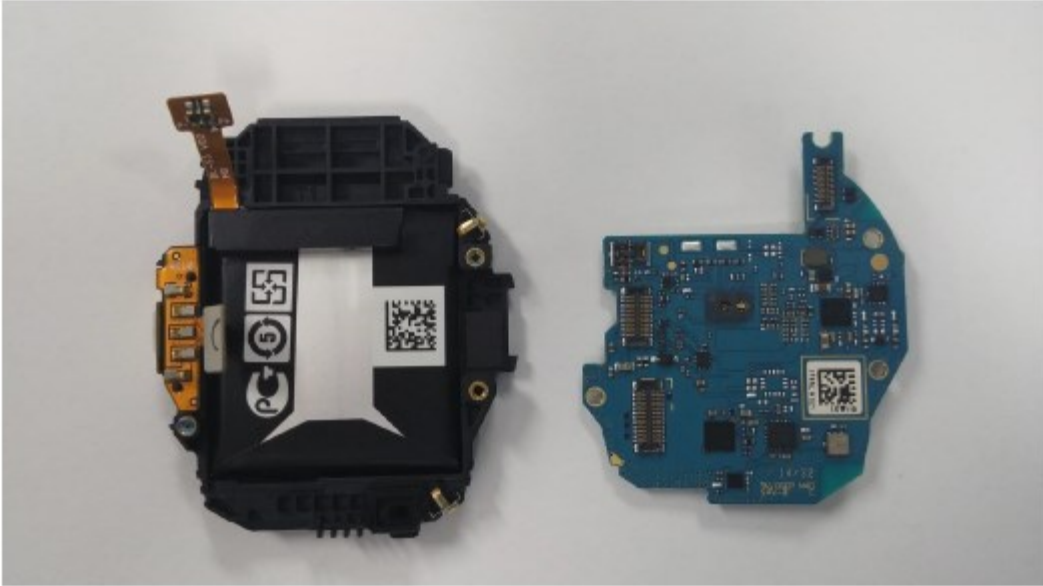


# 10. LGW110



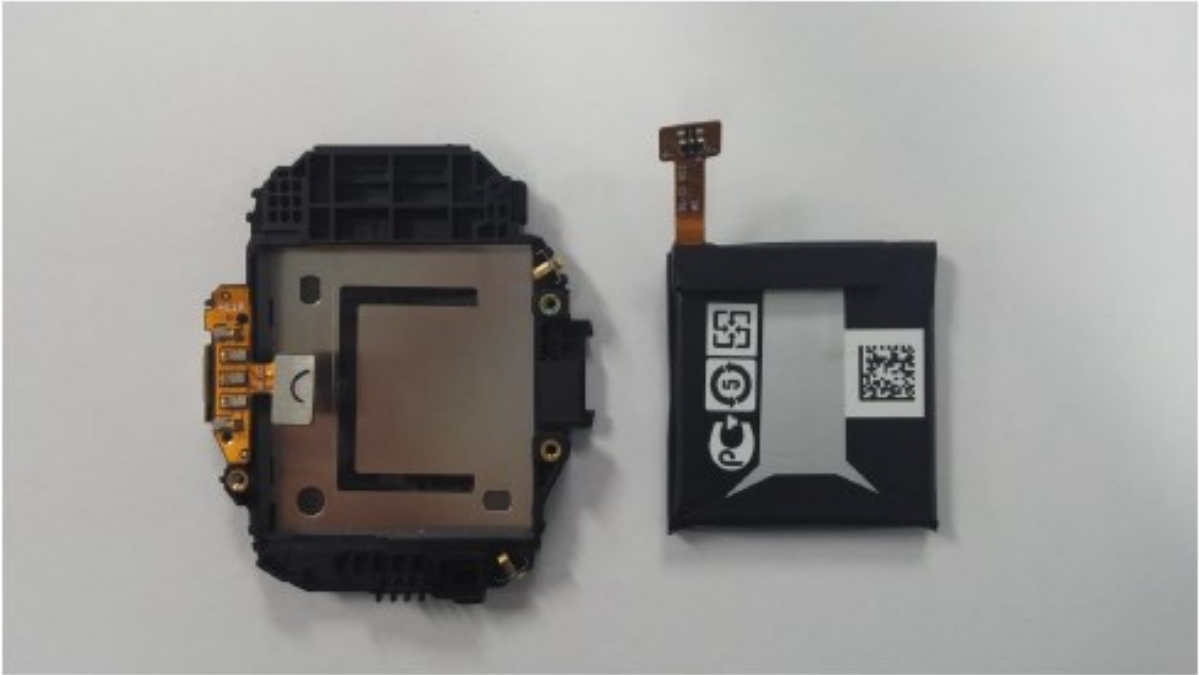
# 10. LGW110

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# 10. LGW110

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# 11. LGD802

## 1) Disassemble Battery cover



\* Unhook direction



## 2) Disassemble Rear cover

1) Disassemble the Rear, SPK module Screws.  
(Screw Point : 12Point)



2) Unhook Rear cover along below direction.





# 11. LGD802

## 3) Disassemble Main PCB

- 1) Disassemble main PCB  
Disconnect FPCB Connectors & RF cable heads and pull in main PCB.



## 4) Disassemble Touch FPCB

- 1) Disconnect Touch FPCB Connectors and disassemble Touch FPCB.
- 2) After remove SPK module, disconnect RF cable heads & connectors and lift up Touch FPCB completely.





# 11. LGD802

## 5) Disassemble Battery cell

- 1) After remove Touch FPCB, lift up the right side of the battery cell using a spatula and disassemble a battery cell.

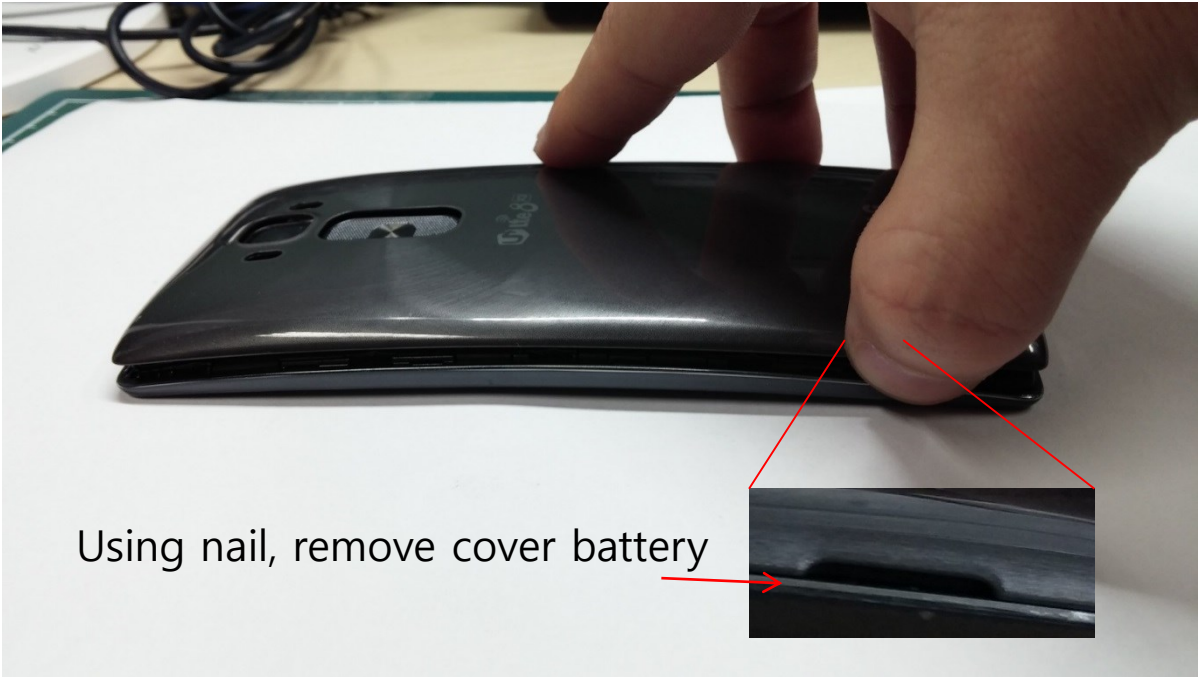


\*Disassemble the Battery cell.

\*Using a wide Spatula,  
Lift up the right side of Battery cell firstly.

# 12. LGH955

## 1) Disassemble Back cover



Procedure : A → B → C → D

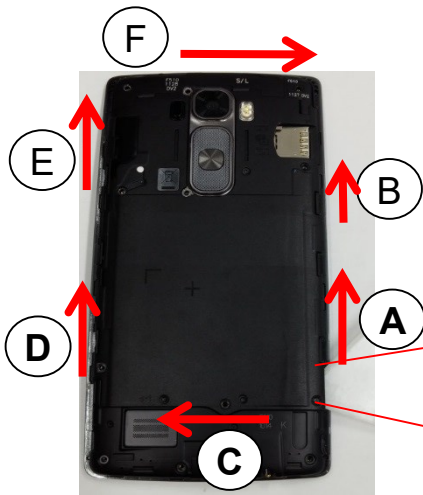
# 12. LGH955

## 2) Disassemble battery cover

1) All Screw 11ea remove  
(Red side 9Point 3.5mm / Blue 4pt 3mm Screw)  
Screw should be separated



2) Right bottom side Rear first



Rear Cover remove  
(Remove procedure : A → B → C → D → E)



3) Right bottom side Main Ant. first



Main Ant. remove  
(Remove procedure : A → B)

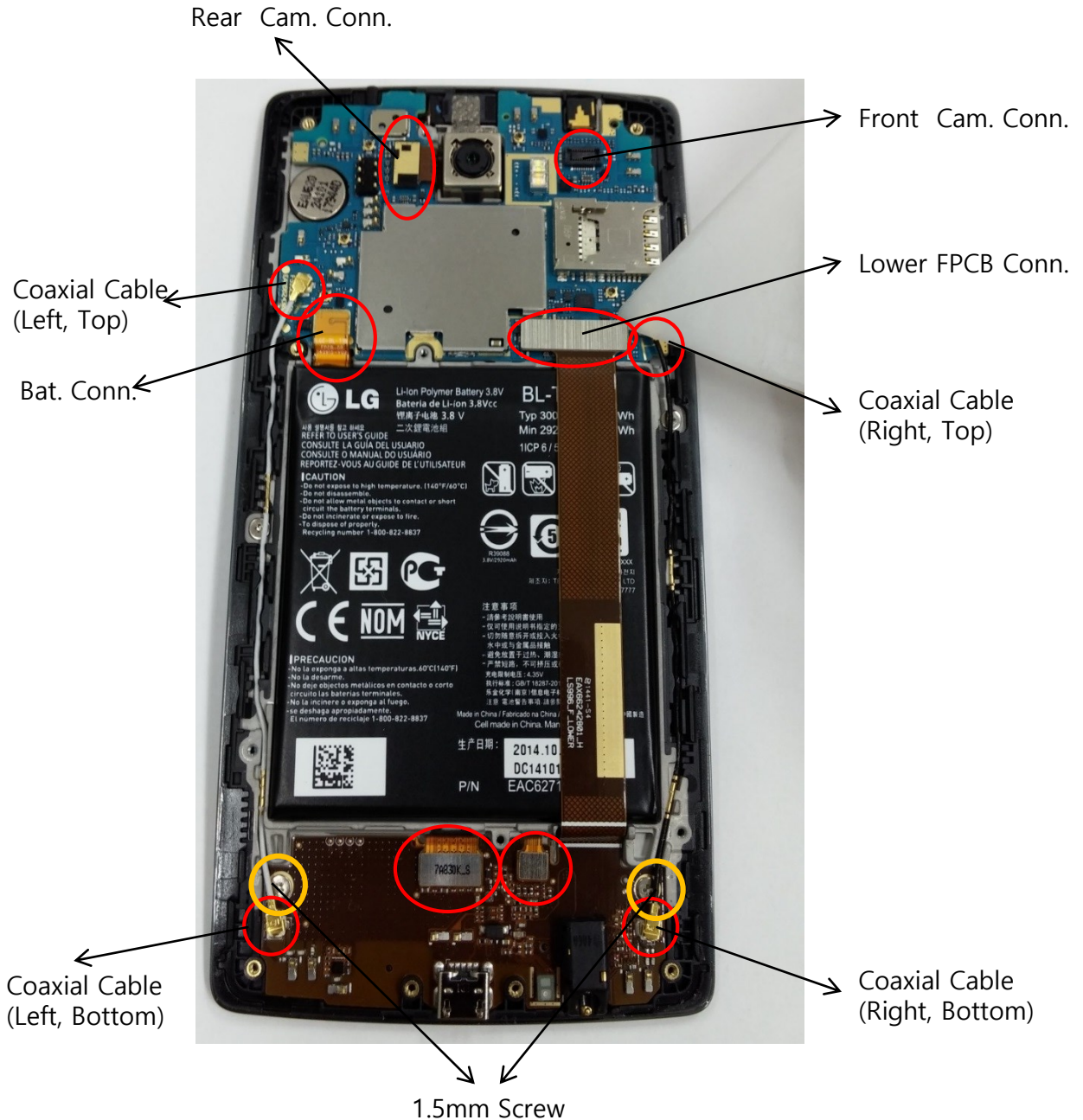


# 12. LGH955

## 3) Disassemble PCBs and Connectors

1) Connector 10point remove

Be cautious about Connector, FPCB, Chip damage



2) Screw 2ea(1.4mm) remove

3) Main PCB and Lower FPCB remove



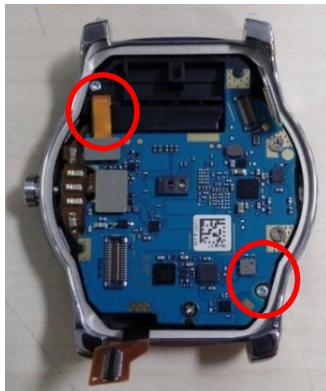
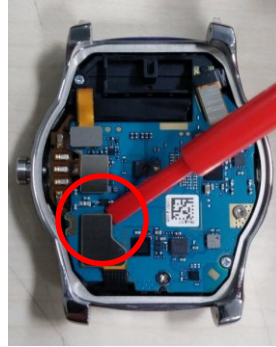
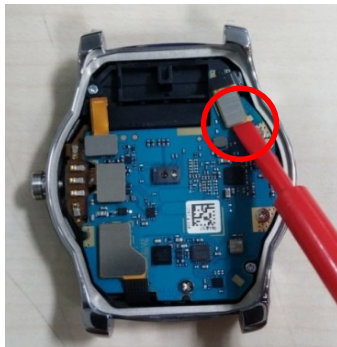
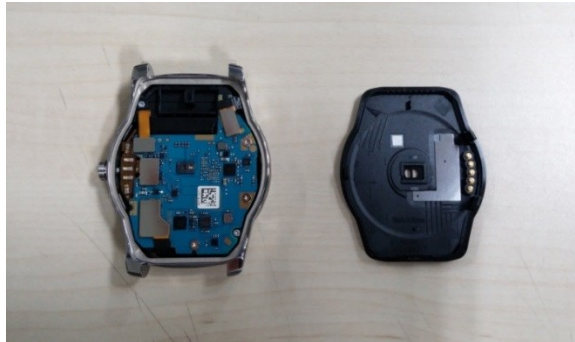
# 13. LGW150



Be Heating at 10cm distance using a Heat Guns on Cover Rear during 10s~15s at 400°C .

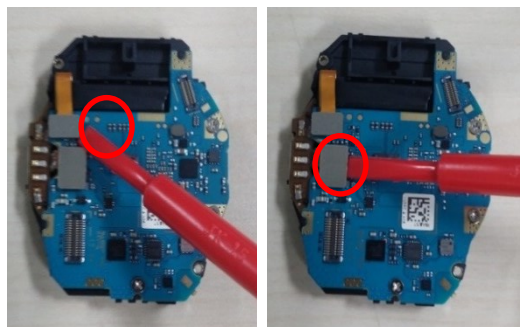
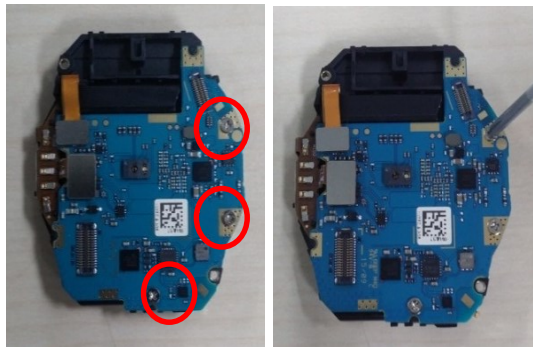


# 13. LGW150





# 13. LGW150



# 13. LGW150

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# 14. LGV735

## 1) Rear cover Disassemble Guide

1. Disassemble Cover Rear's I/O hook 2ea by pushing backward with tool 1.



①



2. Disassemble battery as above picture

②



# 14. LGV735

## 2) Battery Disassemble Guide

1. Disassemble screw 4ea which pointed to above picture.



2. Disassemble battery as above picture



3. Finish

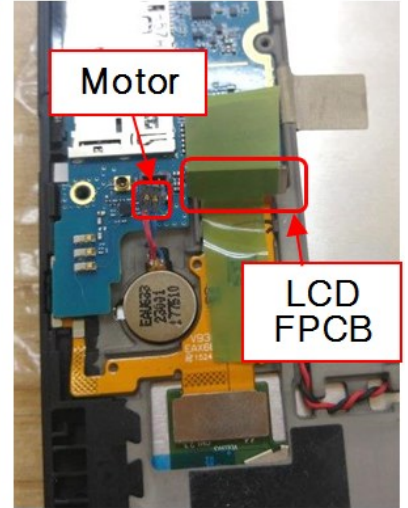
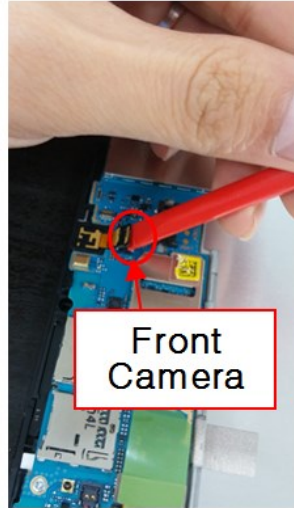


# 14. LGV735

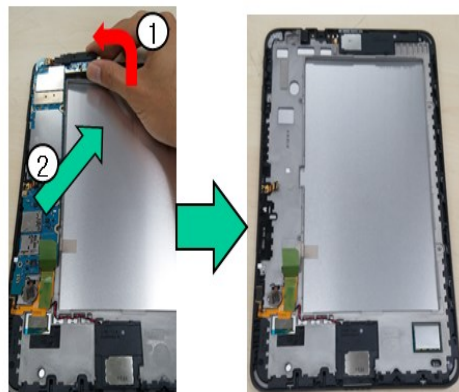
## 3) Main PCB Disassemble Guide

1. Disassemble screw 6ea which pointed to above picture.

2. Disassemble connector 3ea which are front camera, motor and LCD FPCB .



3. Disassemble PCB as above picture .Firstly, carefully lift up I/O area of PCB as 1 direction, and then, take out PCB as 2 direction.



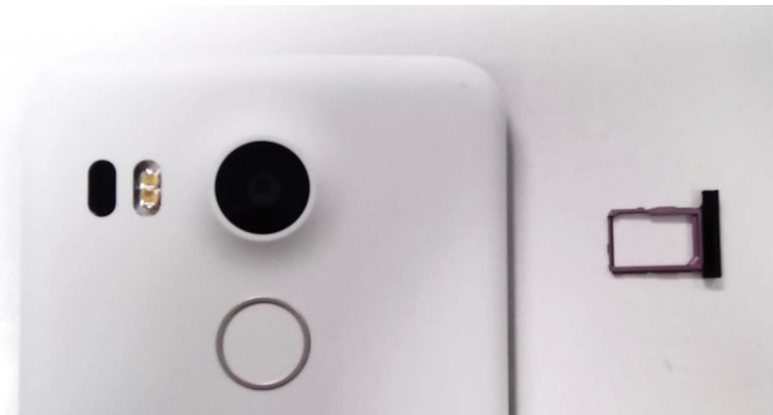


# 15. LGH791, LGH791F

## SIM Tray Remove



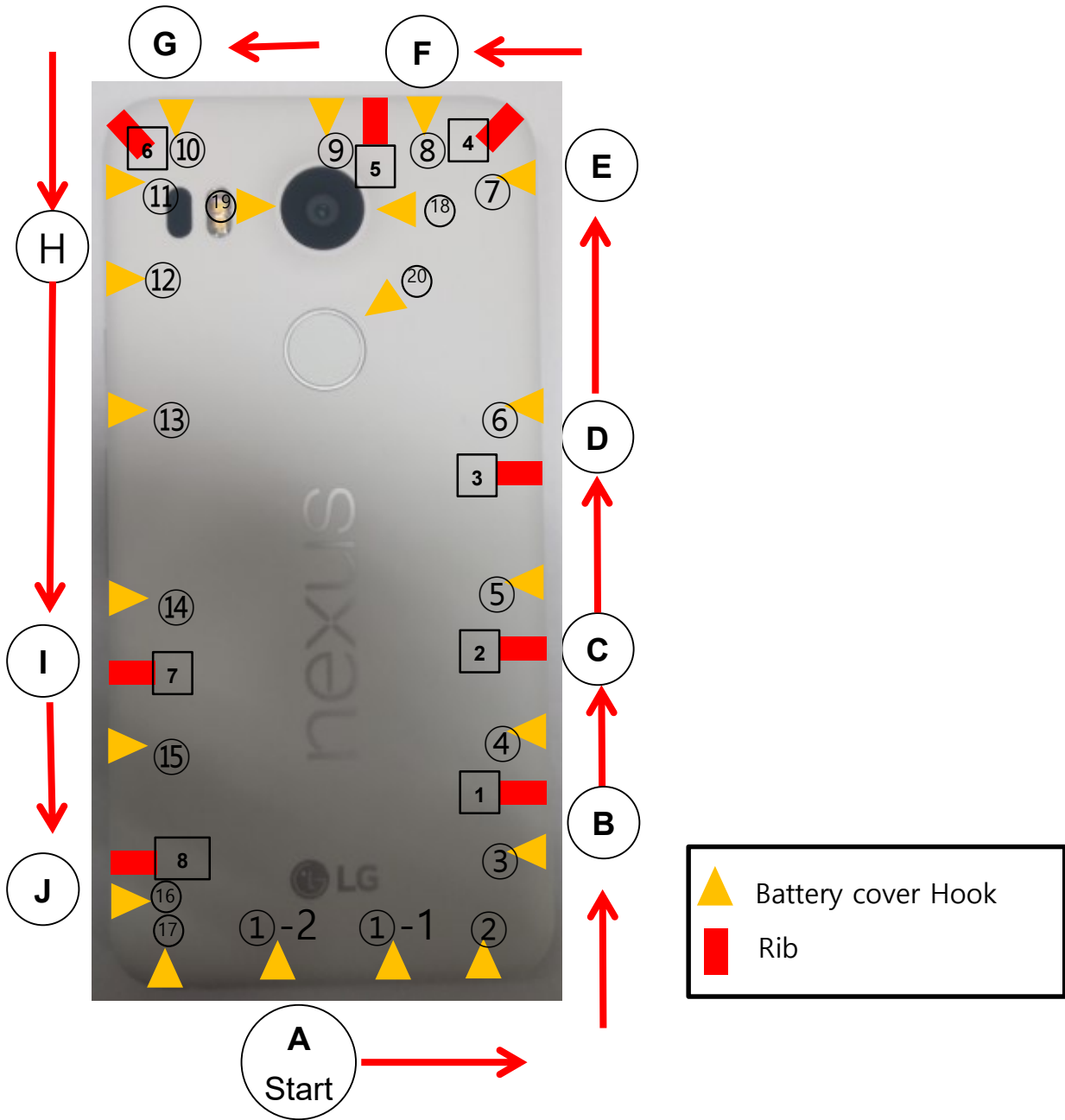
Using SIM ejection, remove SIM tray





# 15. LGH791, LGH791F

## Cover Battery Remove



Disassemble procedure : A → B → C → D → E → F → G → H → I → J

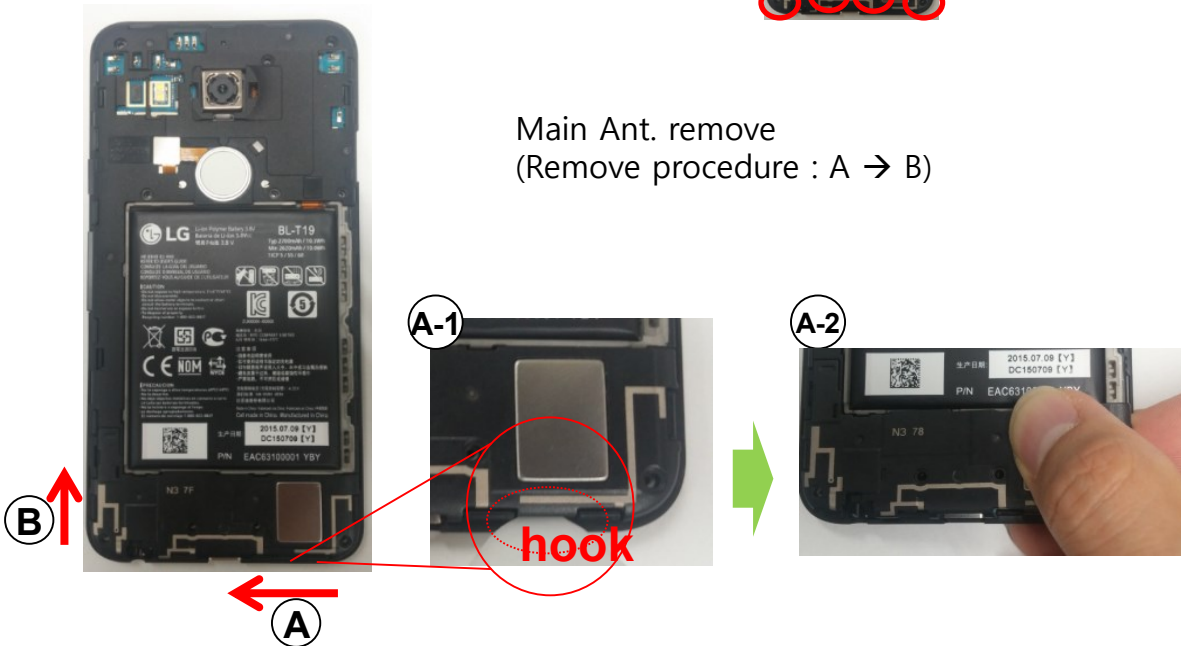
# 15. LGH791, LGH791F

## Rear Cover Remove

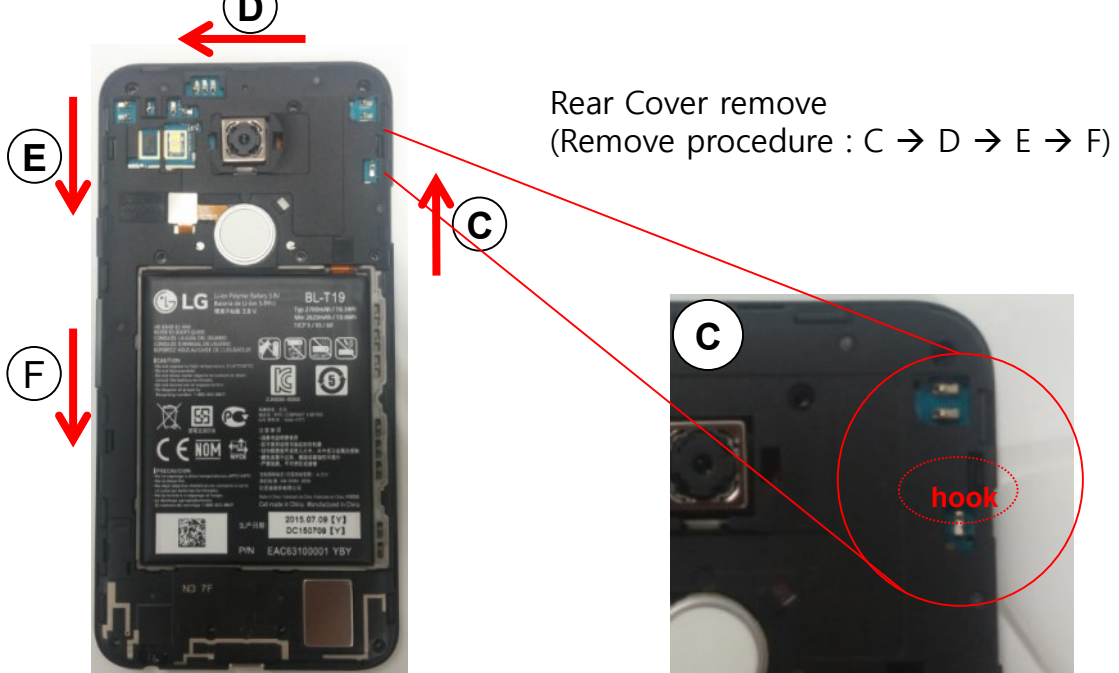
- 1) All Screw 10ea remove  
(Red side 9Point 3.5mm)  
Screw should be separated
- 2) Right bottom side Main Ant. first



Main Ant. remove  
(Remove procedure : A → B)



- 3) Right side Rear Cover first



# 15. LGH791, LGH791F

## PCB Remove

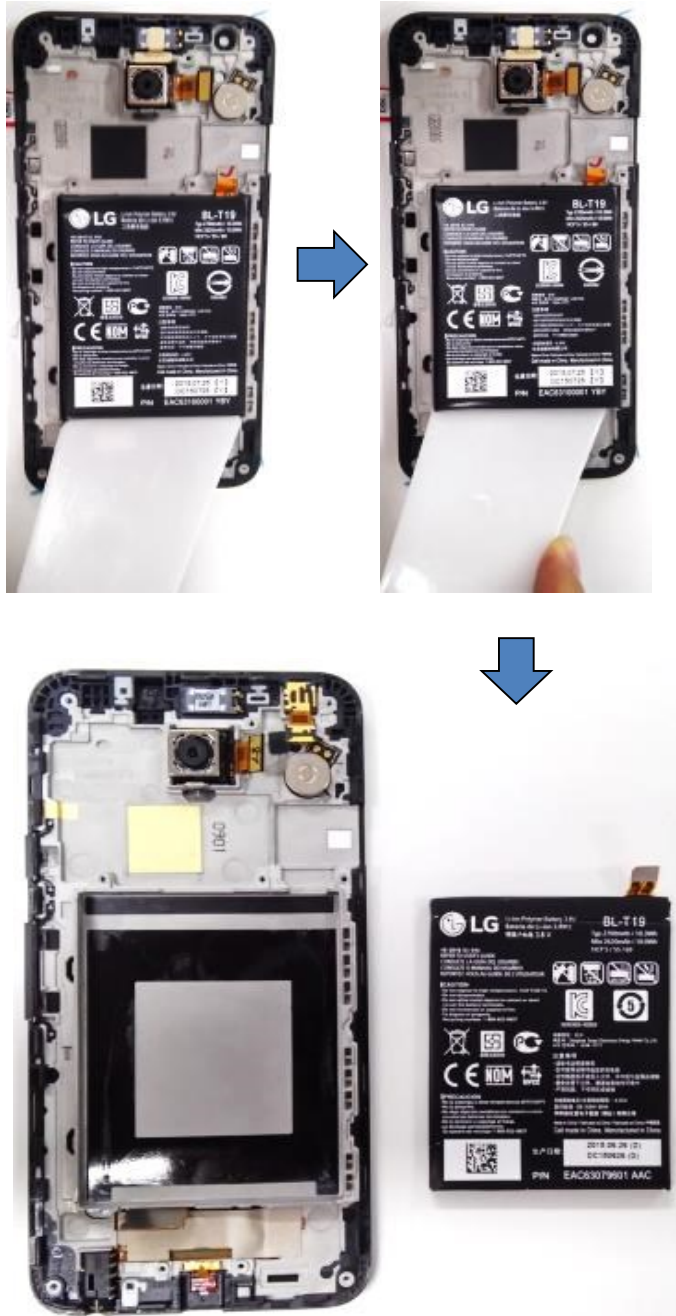
- 1) Connector 3point remove



# 15. LGH791, LGH791F

## Battery Remove

1) Disassemble to Battery (bottom side first)



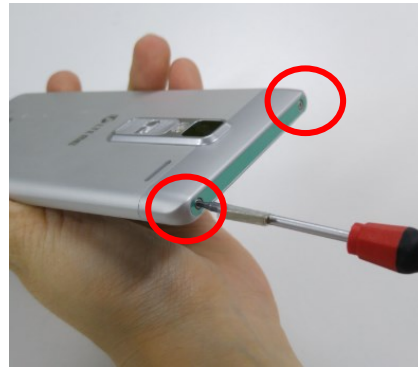
# 16. H650E

## 1) Device Disassemble Guide (1 → 8)

### 1. Disassemble Tray (2ea)



### 2. Disassemble Screw (4EA)



### 3. Disassemble Cover Rear BTM



### 4. Disassemble Key Rail & Screw



### 5. Disassemble Cover Rear



### 6. Disassemble Screw (7ea)





# 16. H650E

## 7. Disassemble Conn (3EA)



## 8. Complete Disassembling

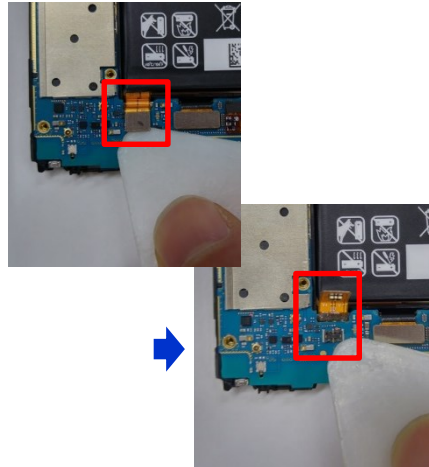


## 2) Battery Disassemble Guide (1→ 6)

### 1. Disassemble Rear cover



### 2. Disassemble battery conn





# 16. H650E

3. Insert tool right side of Battery



4. Lift up the Battery



5. Disassemble Battery



6. Complete Disassembling



# 17. K500N

## 1. Disassemble Screw (9ea)



## 2. Disassemble Rear cover



## 3. Remove battery (1)



## 4. Remove battery (2)



Deep insert the hera.

Insert the hera, left or right side of battery.

## 5. Remove battery (2)



Lean back the hera.

# 18. W200E

## 1. Disassemble Screw (4ea)



## 2.1 Disassemble Rear cover

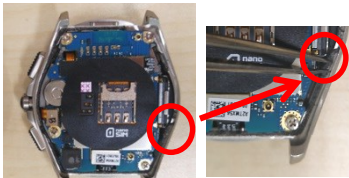


10cm distance  
400°C, 10~15 sec

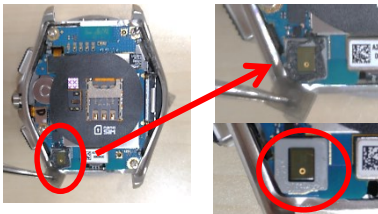
## 2.2 Disassemble Rear cover



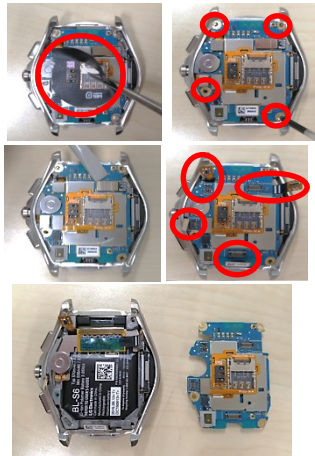
## 2. 3 Disassemble Rear cover



Remove the waterproof tape



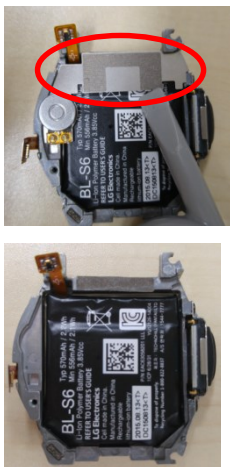
## 3. Disassemble Main PCB



## 4. Disassemble Front cover



## 5. Disassemble Motor Assy.



## 6. Disassemble Battery



## 7. Complete Disassembling





# 19. K580

## 1. Disassemble Screw (10ea)



## 2. Disassemble Antenna



## 3. Disassemble Screw (1ea) & Connector (3ea)



## 4. Disassemble Main PCB

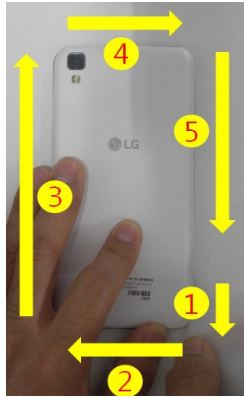


## 5. Remove Battery



# 20. K220

## 1. Disassemble Battery Cover



Disassemble battery cover hook after that remove SIM tray.  
Be careful Antenna contact clip when you disassemble battery cover hook. (indicated red box)

## 2. Disassemble Screw(12ea)



## 3. Disassemble Rear cover



Push a upper side of rear cover. / Disassemble Rear cover hook using nail or plastic tool.

# 20. K220

## 4. Disassemble Battery



Put a wide spatula in to left side of Battery  
And put up Battery.



# 21. W281

## 1. Disassemble Screw (4ea)



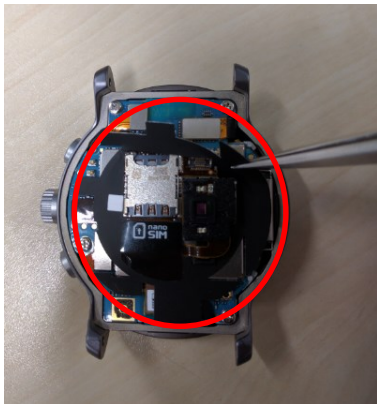
## 2. Disassemble Band



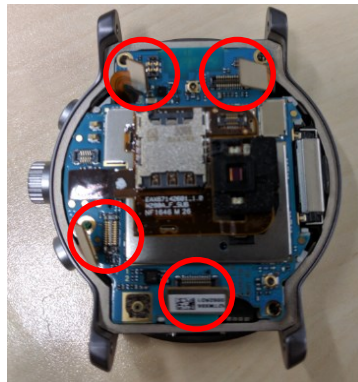
## 3. Disassemble Rear cover



## 4. Disassemble Ferrite Sheet



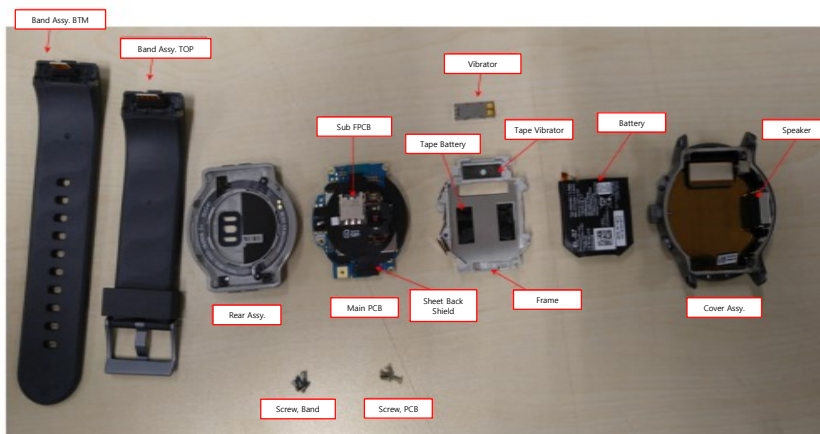
## 5. Release screw (4ea)



## 6. Separate Main Board



## 7. Complete Disassembling



# 21. W281

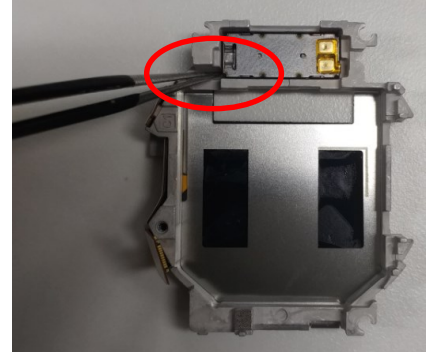
## 8. Disassemble Battery



## 9. Disassemble Battery



## 10. Complete Vibrator



## 11. Complete Disassembling



# 22. H870

<p>1. Disassemble SIM Tray</p>	<p>2. Heat and Pull</p>
	
<p>3. Use edge for separation</p>	<p>4. Loosen 11 screws</p>
	

# 22. H870

5. Disassemble main antenna



6. Disassemble rear cover



7. Disconnect 4 connectors / main PCB



8. Remove battery





# 23. M320N

1. SIM TRAY remove



2. Insert the disassembly tool into battery cover



3. Move the tool and disassemble hooks

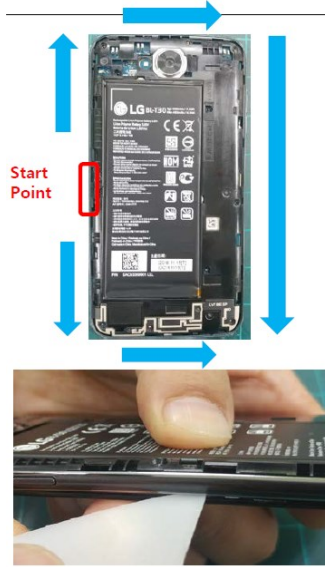


4. Screw Removal



# 23. M320N

5. Insert the disassembly tool into rear



6. Decomposition complete



7. Disassemble connector



8. Disassemble PCB






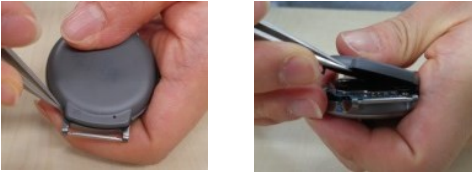

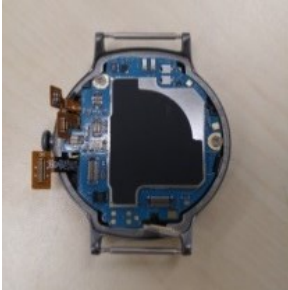



# 23. M320N


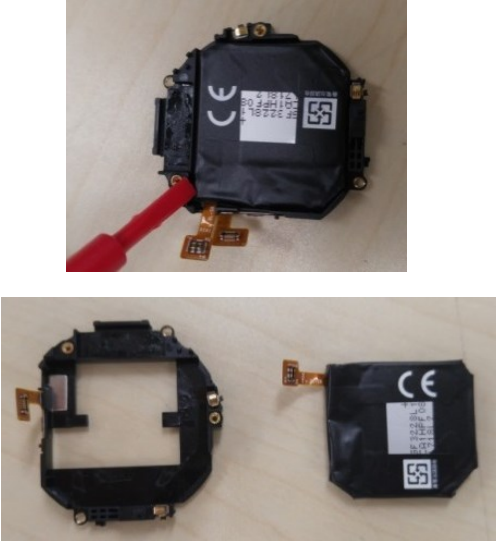
9. Disassemble battery (Finish)



# 24. W270

<p><b>1. Disassemble Band</b></p>  	<p><b>2. Disassemble Rear cover</b></p> <p>400 ° C / 10 seconds to 15 seconds and heated at 10cm distance using a Heat Guns in Cover Rear.</p>  <p>Be careful not to be damage at PCB while opening Rear Cover with using Plastic opening tool</p> 
<p><b>3. Disassemble Main PCB</b></p> <p>Use a Plastic opening tool to separate connectors from Main PCB.</p>  <p>Remove the two screws.</p> 	<p><b>4. Disassemble Vibrator</b></p> 

# 24. W270

<b>5. Disassemble Cover front</b>	<b>6. Disassemble Battery</b>
<p>Remove the two screws.</p> 	<p>Be careful scratch on the battery with using opening tool.</p> 

# 25. H970

<p><b>1. Disassemble Deco Top/BTM</b></p> 	<p><b>2. Disassemble Screws(4ea)</b></p> 
<p><b>3. Make gap between cover battery &amp; front using a pinset</b></p> 	<p><b>4. Open a cover battery putting a hera into gap of #3.</b></p> 

※ Very caution :  
Put the mobile in cold chamber(-20°C, 10min) before detaching the battery.  
Otherwise, it will be possible to be burned!!

# 25. H970

## 5. Disconnect a battery Conn.



## 6. Lift up battery using a hera from BTM side



## 7. Complete





# 26. M700n / M700A

<p><b>1. Disassemble SIM Tray</b></p> 	<p><b>2. Disassemble Battery Cover</b></p> 
<p><b>3. Disassemble Screw (11ea)</b></p> 	<p><b>4. Disassemble Main Antenna &amp; Sub Antenna</b></p> 

# 26. M700n / M700A

## 5. Disassemble Connector (4ea)



## 6. Disassemble Main PCB



## 7. Disassemble HW Parts (2ea)



## 8. Disassemble Battery



# 27. G011C

1. Set the phone to the Chamber at a temperature of 80 ° C for more than 10 minutes.



2. Uses a tool named absorber for Window Removal



3. Lifts up Center → Top → Bottom



4. Touch Window open



# 27. G011C

**5. Remove a Window tape**



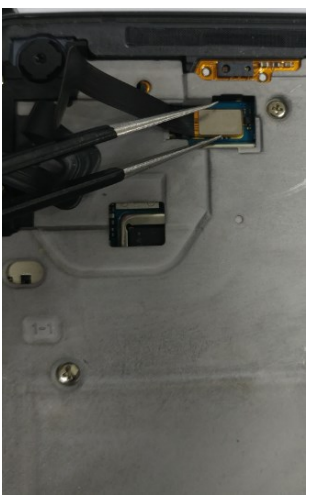
**6. Remove a Bracket Touch Conn.**



**7. Remove a Bracket POLED Conn.**



**8. Disconnect a Touch Conn.**



# 27. G011C

9. Disconnect a POLED Conn.



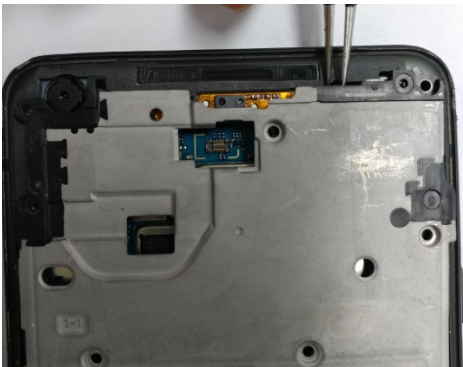
10. Finishes the Touch Window removal



11. Loosen a screw 11point



12. Lifts up the Frame Top using the rounded end Pinset



# 27. G011C

## 13. Finishes the frame removal



## 14. Remove a Simtray



## 15. Disconnect a Conn. 6Point



## 16. Finishes the PCB removal





# 27. G011C

17. Lifts up the battery using the hera



18. Finishes the battery removal



# 28. H930

1. Disassemble the connectors using the tools.  
(connector 5 points)



2. Remove the SIM Tray before removing the PCB. Lift up the pcb and remove it.  
And pull out the battery



# 29. LM-G710EM

## 1. SIM Tray Remove

Insert ejector pin to the hole of SIM tray, then push it.

When it comes out, remove SIM tray.



## 2. Rear Cover Assy Remove

① Stick a vacuum sucker to the lower part of rear cover glass

② Slightly lift the rear cover glass by pulling it, then Insert spatula into the gap between the middle cover and the rear cover. Slide the spatula along the outline of the phone. When the rear cover is lifted enough, open it with care.



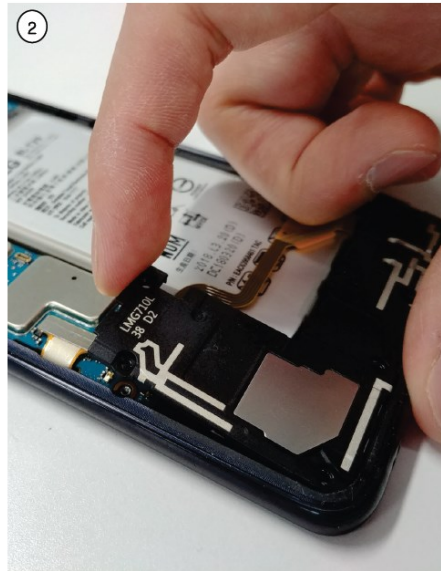
## 3. Disassemble Screw



## 4. Inner Cover Assy Remove

① Open the upper inner cover poking the spatula into the nick (red circle)

② Lift the lower inner cover as shown below.





# 29. LM-G710EM

## 5. PCB Remove

- ① Disassemble connectors (4ea)
- ② Poking spatula to the point shown in the picture (red circle)
- ③ Lift it with care and disassemble the connector below.

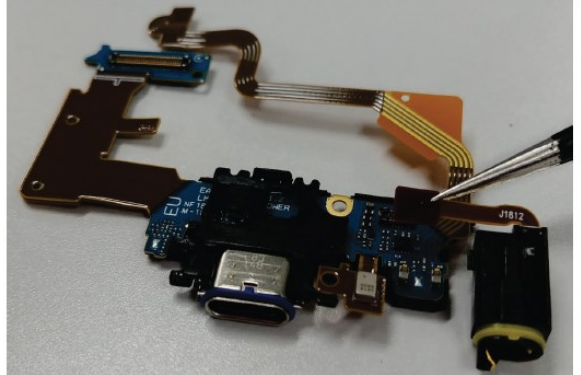


## 6. USB FPCB, Earjack Remove

Remove USB FPCB by lifting the connector first.



Remove earjack by using tweezers.



# 29. LM-G710EM

## 7. Motor, Side Key Module, Receiver Remove

- ① Poking tweezers into the gap below the motor and lift it.
- ② Poking tweezers into the gap below the front camera and lift it.
- ③ ④ Remove Side key Brackets by lifting it.
- ⑤ Poking tweezers into the gap below the receiver and remove it minding that FPCB could be easily torn.



## 8. Battery Remove

Put it into cold chamber (-20°, 30min), then remove battery cell.

When it is put under low-temperature environment, adhesion force of battery tape is dramatically decreased.

After putting it out from the chamber, remove battery cell by using spatula with care.



# 30. LMG910EMW

---

## 1. SIM Tray, Rear Cover Assy. Remove

### 1. SIM Tray Remove

Insert an eject pin to the hole of SIM tray on the top of device and push it. When it comes out, remove SIM tray.

### 2. Rear Cover Assy Remove

Disassemble rear cover uses the existing equipment RG-250 in service center.





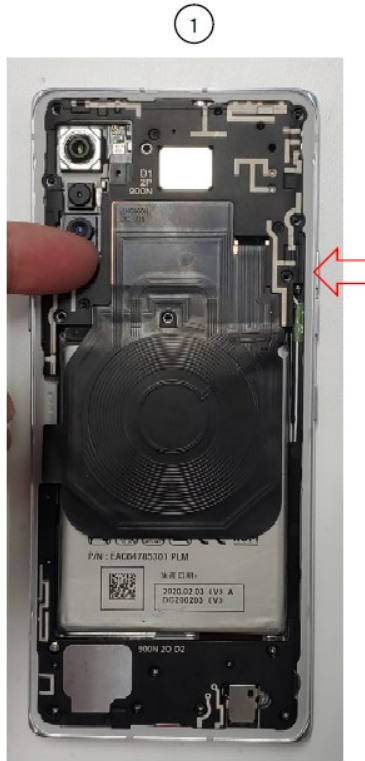
# 30. LMG910EMW

## 2. Screw, Inner Cover Assy, SPK module Remove

### 1. Disassemble Screw (16ea)

### 2. Disassemble Inner Cover Assy and SPK module

- ① Disassemble by lifting the right part of the upper inner cover using a Hera.
- ② Disassemble by lifting the right part of the lower inner cover using a Hera.



# 30. LMG910EMW

## 3. PCB Remove

### 1. PCB Remove

① Disassemble connectors using Hera (6ea)



② Disassemble by lifting the lower part of main PCB using Hera



# 30. LMG910EMW

## 4. Earjack and FingerPrintSensor Remove

### 1. Earjack Remove

- ① Disassemble screw(1ea)
- ② Dsassemble connector using Hera
- ③ Disassemble earjack



### 2. FingerPrintSensor Remove

- ① Disassemble connector using Hera
- ③ Disassemble FingerPrintSensor



# 30. LMG910EMW

## 5. Sub FPCB and Motor Remove

### 1. Sub FPCB Remove

- ① Disassemble 2 connectors using Hera
- ② Disassemble by lifting the upper part of the Sub PCB using a Hera

①



②



### 2. Motor Remove

- ① Poking Pincette into the gap on bottom of the Motor and lift it.
- ② When disassembling, be careful because the display is exposed at the bottom of the motor

①



②





# 30. LMG910EMW

## 6. Front Camera, Receiver Remove

### 1. Front camera Remove

- ① Remove the gasket from the middle cover using Pincette
- ② Hold the FPCB and remove the front camera



### 2. Receiver Remove

- ① Poking Pincette into the gap on bottom left of the Receiver and lift it





# 30. LMG910EMW

## 7. Sidekey Bracket Remove

### 1. Power key bracket Remove

- ① Disassemble the Power Key bracket side by lifting it with Pincette
- ② Hold the FPCB and remove the front camera



### 2. Volume key bracket Remove

- ① Lift the lower side of the volume key bracket using Hera or Pincette.
- ② As it is a hook at the end of disassembly, disassemble it by twisting it slightly (If you lift it too strongly, be careful as it may break)



# 30. LMG910EMW

## 8. Battery, Sub6 Antenna, Relay FPCB Remove

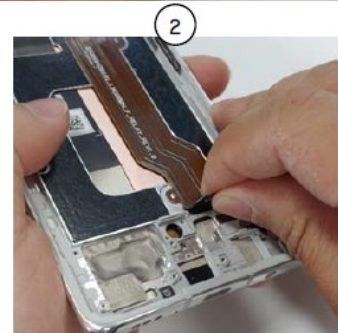
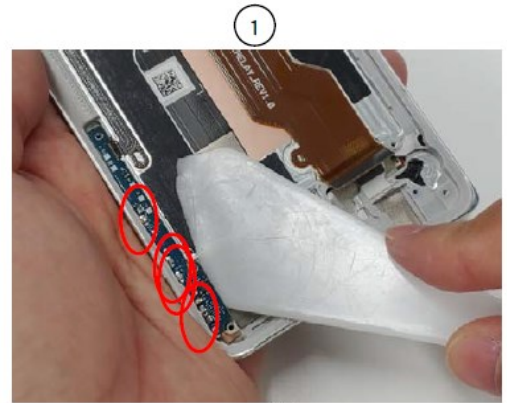
### 1. Battery Remove

- ① Disassemble the battery Spray the liquid at 4 corners, and disassemble with Hera after 30 seconds.



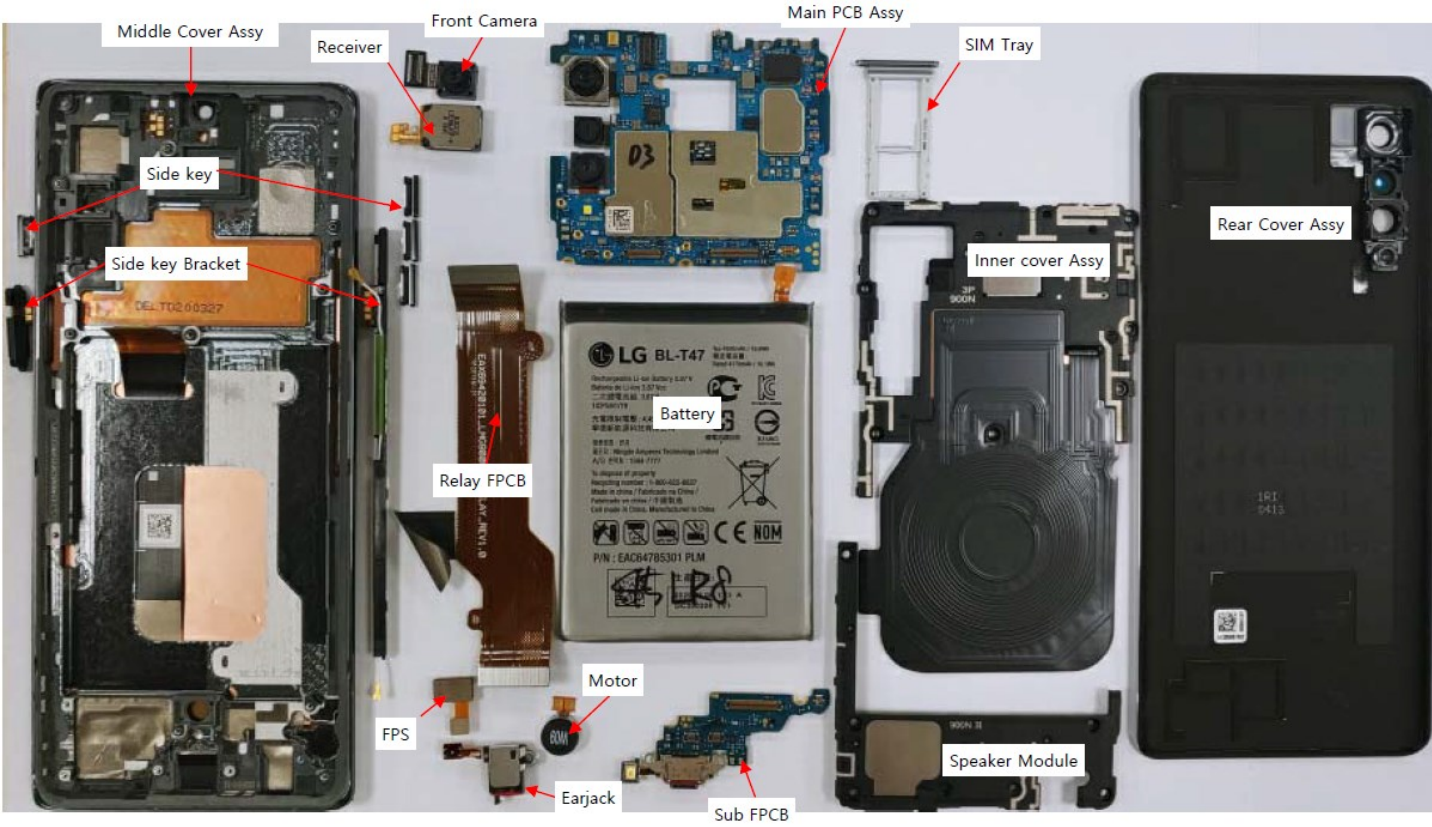
### 2. Sub6 ANT & Relay FPCB Remove

- ① Disassemble sub6 PCB side using Hera.
  - ※ Be careful of the deformation of the 4 clips
- ② Disassemble by holding the lower part of Relay FPCB and lifting it



# 30. LMG910EMW

## 9. EXPLODED VIEW



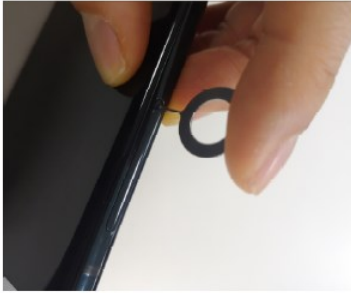
# 31. LMV500EM

## 1. SIM Tray, Rear Cover Assy Remove

### 1. SIM Tray, Rear Cover Assy Remove

#### 1. SIM Tray Remove

Insert ejector pin to the hole of SIM tray on the right side of the device, then push it. When it comes out, remove SIM tray.



#### 2. Rear Cover Assy Remove

- ① Stick a vacuum sucker to the lower part of rear cover glass
- ② Slightly lift the rear cover glass by pulling it, then insert spatula into the gap between the middle cover and the rear cover. Slide the spatula along the outline of the phone. When the rear cover is lifted enough, open it with care.





# 31. LMV500EM

## 2. Screw, Inner Cover Assy Remove

### 1. Disassemble Screw (12ea)



### 2. Inner Cover Assy Remove

- ① Gently lift the lower left part.
- ② Lift clockwise and loosen the fixing part of the hook.
- ③ Disassemble connector
- ④ Remove the top inner cover.
- ⑤ Remove the hook from the fixing by pushing the upper left part of the lower inner cover.





# 31. LMV500EM

## 3. PCB, USB FPCB, Earjack Remove

### 1. PCB Remove

- ① Disassemble connectors (4ea)
- ② Disassemble Coaxial Cables (3ea)
- ③ Lift it with care and disassemble the connector below.



Connector underneath PCB is indicated with dotted box.

### 2. USB FPCB, Ear-jack Remove

Disassemble the screw in the red circle first, then remove ear-jack.



disassemble sub PCB with lifting by hands with the direction seen in the picture.



# 31. LMV500EM

## 4. Motor, Side Key Module etc. Remove

- ① Poking tweezers into the gap below the motor and lift it
- ② Poking tweezers into the gap below the front camera and lift it minding that FPCB could be easily torn.
- ③ Poking tweezers into the gap below the Stereo SPK and lift it minding that FPCB could be easily torn
- ④ Remove Side key Brackets(power) by lifting it.
- ⑤ Remove Side key Brackets(volume) by lifting it.
- ⑥ Remove Sub6 ANT by lifting it.



# 31. LMV500EM

## 5. Battery Remove

Put it into cold chamber (-20°, 30min), then remove battery cell.

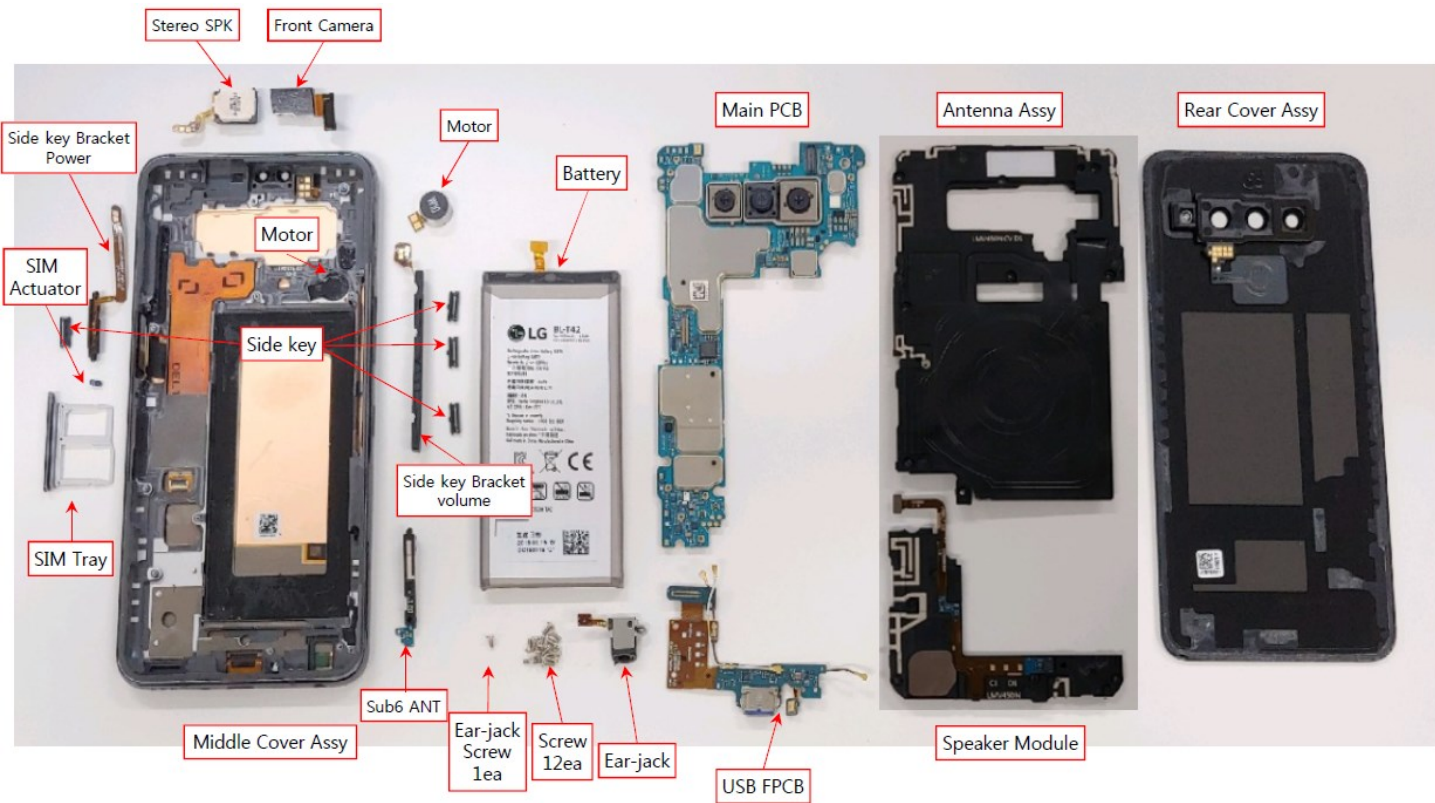
When it is put under low-temperature environment, adhesion force of battery tape is dramatically decreased.

After getting it out from the chamber, remove battery cell by using spatula with care.



# 31. LMV500EM

## 6. Service Level Disassembly





## 32. LGH930

### PCB assembly, Main.

1



2



Disassemble the connectors using the tools.  
(connector 5 points)

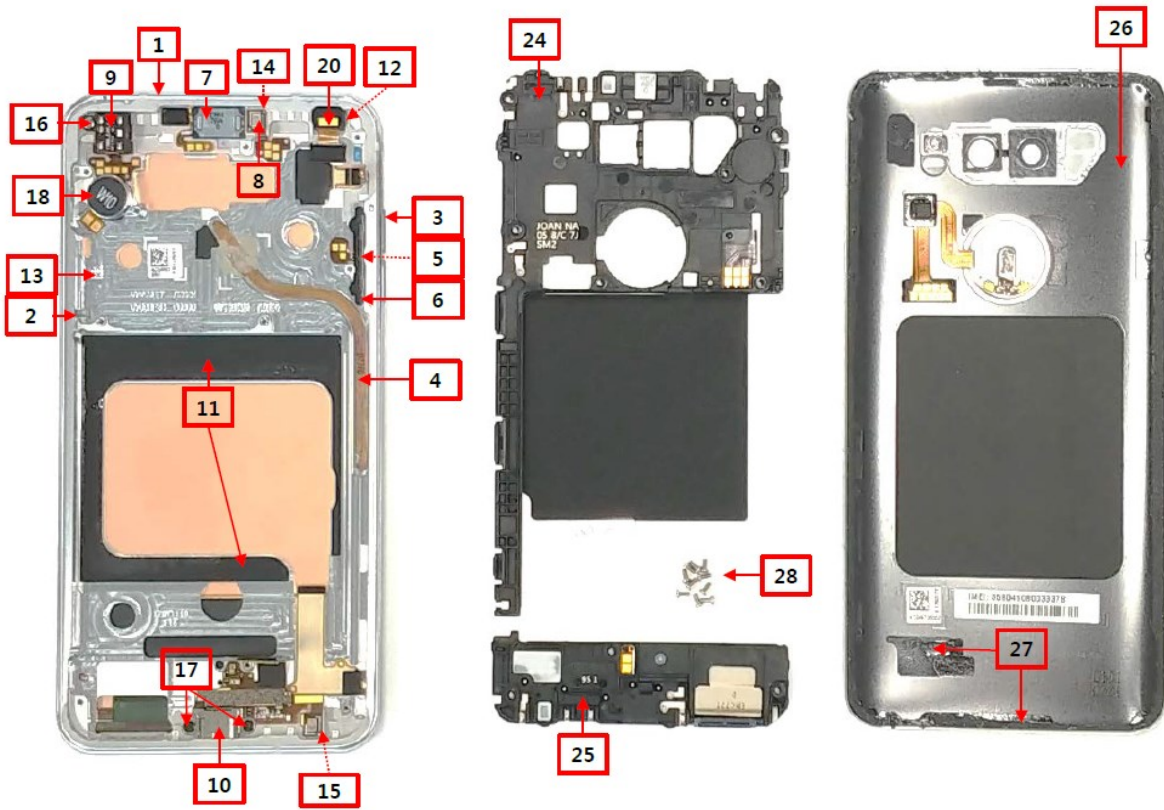
Remove the SIM Tray before removing the PCB.  
Lift up the pcb and remove it.



# 32. LGH930

## Service Level Disassembly

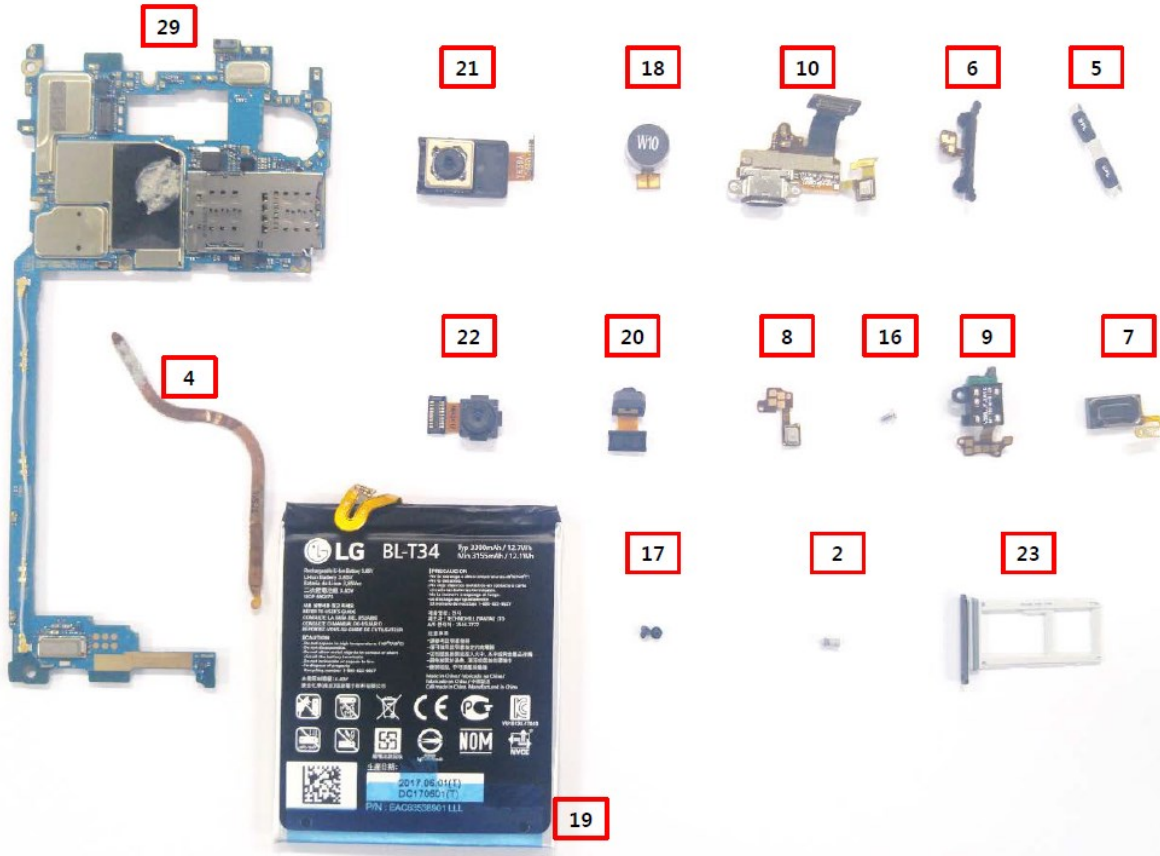
1	Front Assy
2	SIM Actuator
3	Volume key
4	Heat Pipe
5	Bracket STS sealing cap
6	FPCB Volume key Assy
7	FPCB Receiver
8	FPCB Mic 2 <sup>nd</sup>
9	FPCB Earjack
10	FPCB USB
11	Tape Battery
12	Tape VT Camera
13	Label LDI
14	Filter, Mic 1
15	Filter, Mic 2
16	Screw Earjack
17	Screw USB
18	Motor
20	VT Camera
24	Sub Antenna Assy
25	Main Antenna Assy
26	Battery Cover Assy
27	Tape Battery Cover
28	Screw, Rear



# 32. LGH930

## Service Level Disassembly

2	SIM Actuator
4	Heat Pipe
5	Bracket STS sealing cap
6	FPCB Volume key Assy
7	FPCB Receiver
8	FPCB Mic 2 <sup>nd</sup>
9	FPCB Earjack
10	FPCB USB
16	Screw Earjack
17	Screw USB
18	Motor
19	Battery
20	VT Camera
21	OIS Camera
22	Wide Camera
23	SIM Tray
29	Main PCB Assy



# 33. LMG850EMW

## 1. SIM Tray, Rear Cover Assy. Remove

### 1. SIM Tray Remove

Insert an eject pin in SIM tray on the top of phone and push it. Remove SIM tray.



### 2. Rear Cover Assy Remove

- ① Slightly lift the rear cover using such as suction cups.
- ② Insert spatula into the gap between the middle cover and rear cover.
- ③ Slide the spatula along the outline of the phone.
- ④ When the rear cover is lifted enough, open it with care.



# 33. LMG850EMW

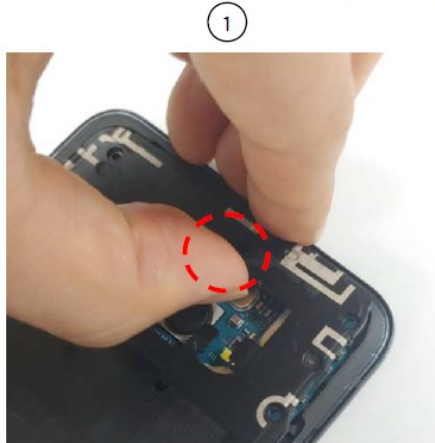
## 2. Screw, Inner Cover Assy Remove

### 1. Disassemble Screw (14ea)



### 2. Disassemble Inner Cover Assy.

- ① Gently lift the upper part of inner cover (Red circle) and loosen the fixing part of the hook.
- ② Remove the hook from the fixing by pushing the upper left part of the lower inner cover





# 33. LMG850EMW

## 3. PCB, USB FPCB, Earjack Remove

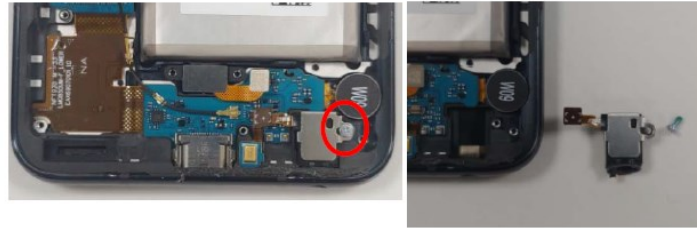
### 1. PCB Remove

- ① Disassemble connectors (6ea)
- ② Carefully lift the upper of PCB by hand. (Red circle)
- ③ Carefully lift the pcb and disassemble the connector with lower PCB.



### 2. USB FPCB, Earjack Remove

- Disassemble a screw (1ea)
- Lift ear jacks from the top.
- Make sure that the connector is removed at first



Remove USB FPCB by lifting it.

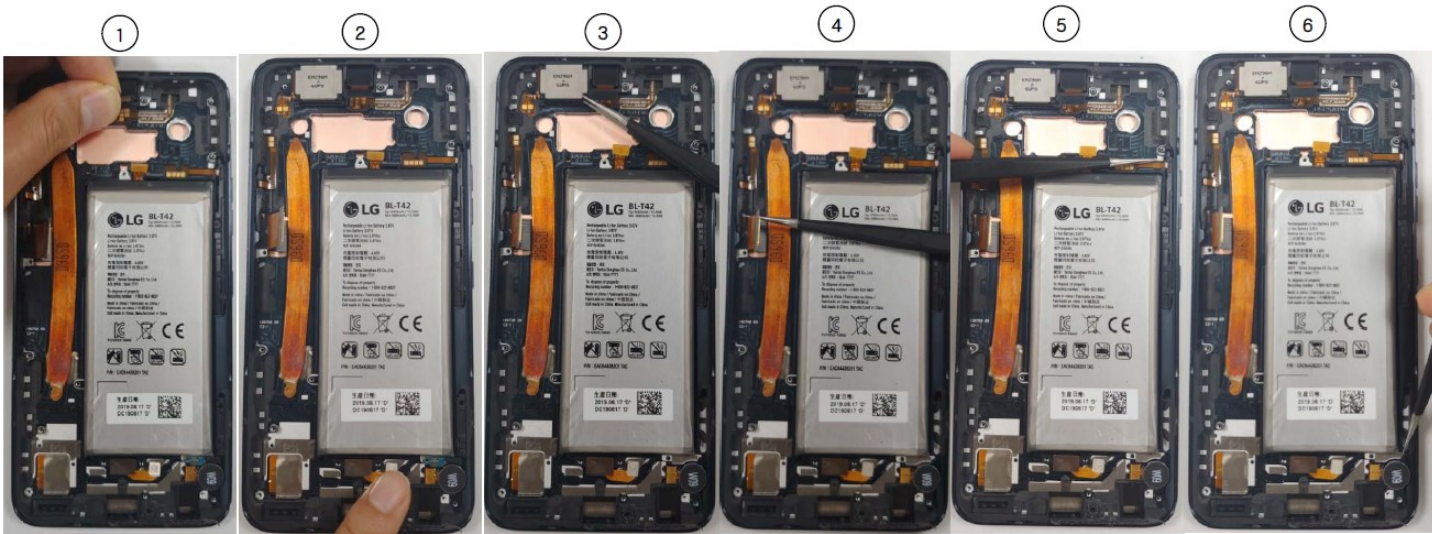




# 33. LMG850EMW

## 4. Motor, Side-key Module, Receiver Remove

- ① Carefully disassemble a front camera and a FPS module, which is easily cracked.
- ② Insert pincette in the left bottom of the side of the receiver and lift it.
- ③ Insert pincette in the left bottom of the side of the receiver and lift it.
- ④ ⑤ Disassemble the key brackets in the both sides of metal frame.
- ⑥ Disassemble a motor using pincette.



# 33. LMG850EMW

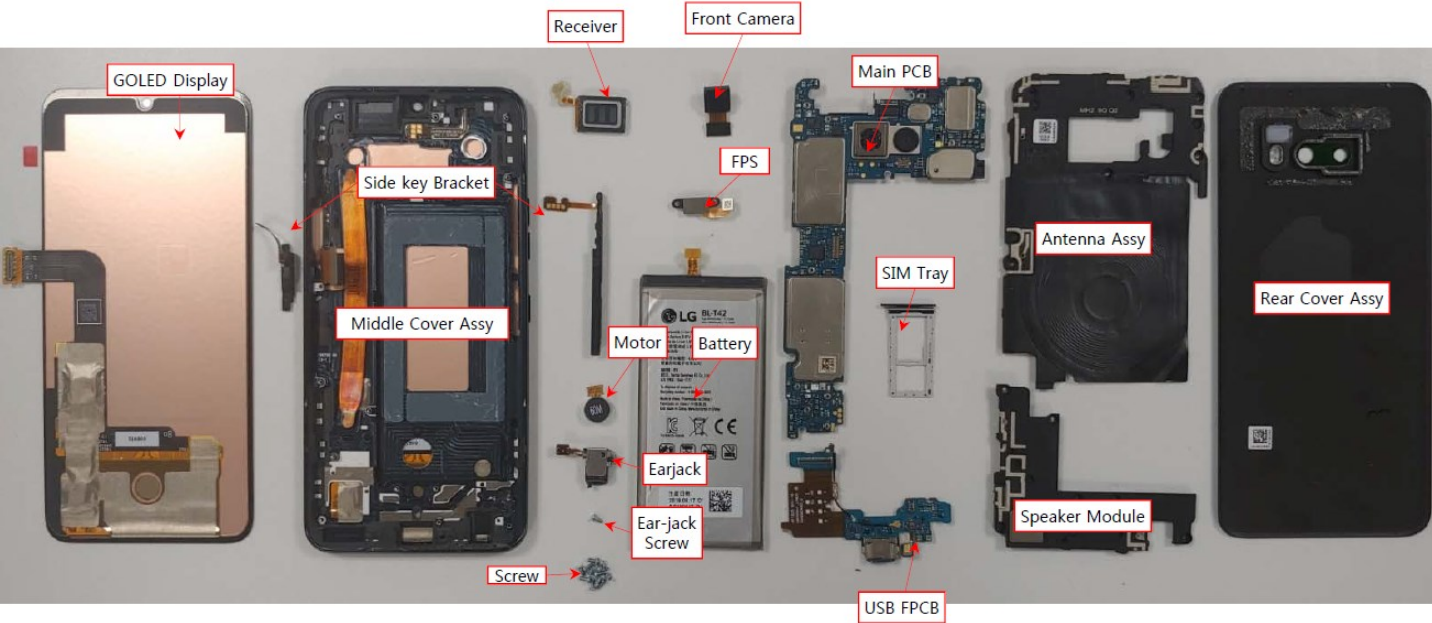
## 5. Battery Remove

Leave the front assy. at a low temperature during a half hour on chamber. (-20°, 30 min.)  
And disassemble a battery cell using the spatula.



# 33. LMG850EMW

## 6. EXPLODED VIEW



# 34. LMX320EMW

## 1 Phone Disassemble Guide

1. Disassemble Rear cover after heating at 60°C for 3-5 min.



2. Disassemble Screw (16ea)



3. Disassemble Inner Cover



4. Extract SIM tray



5. Disassemble Connector (2ea) and Main PCB



6. Disassemble HW Parts (2ea)



7. Complete Disassembling



# 34. LMX320EMW

## 2 Battery Disassemble Guide

1. . Put Bar Assy  
in freezing chamber (-40°C, 60sec)



2. Disassemble Battery





# 34. LMX320EMW

## 3. Cover Rear Disassemble Guide

### 1. Assembly Sequences







1. After heating phone set at 60+/-5°C , 3-5min, make a gap space in lower side using suction cup.
2. Using spatula, detach rear cover from adhesive. (Please refer to the sequences described on the left side)

After unlocking left/right/lower sides,  
lift rear cover manually without any tool



# 35. LMX120EMW

## 1 Phone Disassemble Guide

<b>1. Disassemble SIM Tray</b>	<b>2. Disassemble Rear cover</b>	<b>3. Disassemble Screw (15ea)</b>	<b>4. Disassemble Inner Cover</b>
	 <p>Disassemble clockwise from the top</p>		
<b>5. Disassemble Connector (4ea)</b>	<b>6. Disassemble main PCBA and Sub PCBA</b>	<b>6. Disassemble HW Parts (9ea)</b>	<b>7. Complete Disassembling</b>
			

# 35. LMX120EMW

## 2. Battery Disassemble Guide

1. . Leave Bar Assy  
in Temperature box (70°, 8min)



2. Disassemble NOTES

1. Must use plastic tools.
2. Do not pierce the battery. Damage to the battery skin can cause the battery to smoke or even burn
3. When disassembling the battery, the plastic bar is left to avoid damage to LCM\_FPC

2. Disassemble Battery



# 35. LMX120EMW

## 3. Battery Cover Disassemble Guide


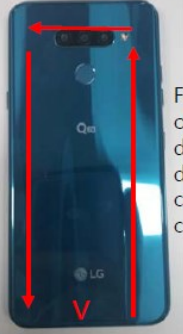







- ① Use the disassemble card to disassemble the hook at the corner above the tray hole
- ② Use the disassemble card to disassemble the hook at the corner of the rear lens
- ③ The battery cover can be disassemble from the bottom



# 36. LMX520EMW

## 1 Phone Disassemble Guide

1. Disassemble SIM Tray	2. Disassemble Rear cover	3. Disassemble Screw (17ea)	4. Disassemble Inner Cover
	 <p data-bbox="539 683 715 840">From the bottom of the rear cover, disassemble direction of counter clockwise</p>		
5. Disassemble Connector (2ea) and Main PCB	6. Disassemble HW Parts (2ea)	7. Complete Disassembling	
			



# 36. LMX520EMW

## 2 Battery Disassemble Guide

1. . Leave Bar Assy  
in freezing chamber (-20°, 20min)



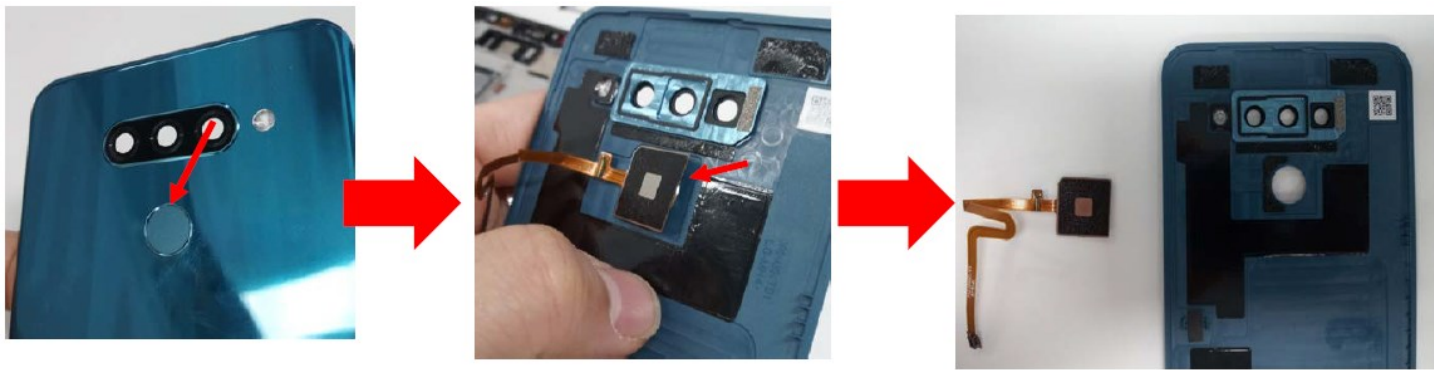
2. Disassemble Battery



Put "Hera" into the lower right  
side of battery and disassemble

# 36. LMX520EMW

## 3 FPS Disassemble Guide



Push finger print sensor until the other side of the FPS peel off a little. Then disassemble it from the rear cover

지문센서쪽을 누른 후 반대쪽이 살짝 들리도록 한다. 그 부위를 이용하여 리어커버에서 살짝 들어올려 분리한다.

# 36. LMX520EMW

## 4 FPS re-assemble Guide



Put the finger print sensor on the FPS guide of rear cover. Compress after assemble.

지문센서의 외곽과 리어커버의 외곽 가이드의 위치를 맞춰 조립한다. 조립 후 손으로 압박 한다.

# 37. LMG900EM

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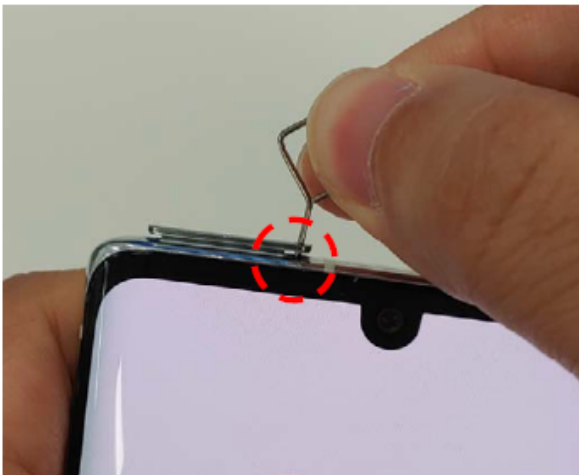
## 1. SIM Tray, Rear Cover Assy. Remove

### 1. SIM Tray Remove

Insert an eject pin to the hole of SIM tray on the top of device and push it. When it comes out, remove SIM tray.

### 2. Rear Cover Assy Remove

Disassemble rear cover uses the existing equipment RG-250 in service center.



# 37. LMG900EM

## 2. Screw, Inner Cover Assy, SPK module Remove

### 1. Disassemble Screw (16ea)



### 2. Disassemble Inner Cover Assy and SPK module

- ① Disassemble by lifting the right part of the upper inner cover using a Hera.
- ② Disassemble by lifting the right part of the lower inner cover using a Hera.

①



②





# 37. LMG900EM

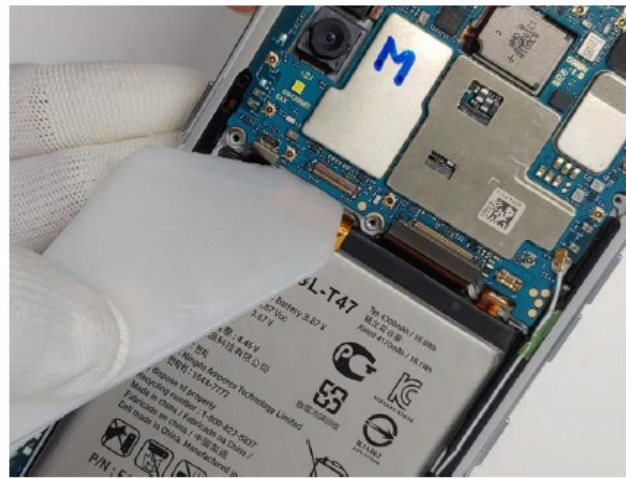
## 3. PCB Remove

### 1. PCB Remove

① Disassemble connectors using Hera (6ea)



② Disassemble by lifting the lower part of main PCB using Hera

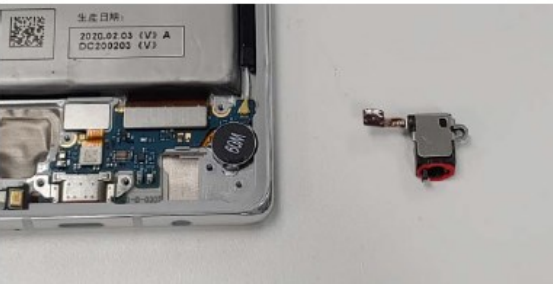


# 37. LMG900EM

## 4. Earjack and FingerPrintSensor Remove

### 1. Earjack Remove

- ① Disassemble screw(1ea)
- ② Dsassemble connector using Hera
- ③ Disassemble earjack



### 2. FingerPrintSensor Remove

- ① Disassemble connector using Hera
- ③ Disassemble FingerPrintSensor



# 37. LMG900EM

## 5. Sub FPCB and Motor Remove

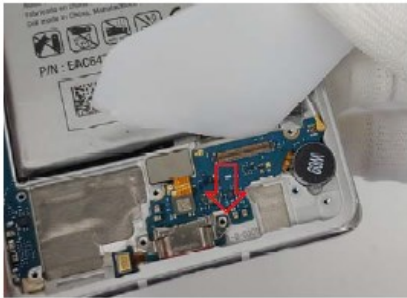
### 1. Sub FPCB Remove

- ① Disassemble 2 connectors using Hera
- ② Disassemble by lifting the upper part of the Sub PCB using a Hera

①



②



### 2. Motor Remove

- ① Poking Pincette into the gap on bottom of the Motor and lift it.
- ② When disassembling, be careful because the display is exposed at the bottom of the motor

①



②



# 37. LMG900EM

## 6. Front Camera, Receiver Remove

### 1. Front camera Remove

- ① Remove the gasket from the middle cover using Pincette
- ② Hold the FPCB and remove the front camera



### 2. Receiver Remove

- ① Poking Pincette into the gap on bottom left of the Receiver and lift it



# 37. LMG900EM

## 7. Sidekey Bracket Remove

### 1. Power key bracket Remove

- ① Disassemble the Power Key bracket side by lifting it with Pincette
- ② Hold the FPCB and remove the front camera



### 2. Volume key bracket Remove

- ① Lift the lower side of the volume key bracket using Hera or Pincette.
- ② As it is a hook at the end of disassembly, disassemble it by twisting it slightly (If you lift it too strongly, be careful as it may break)





# 37. LMG900EM

## 8. Battery, Sub6 Antenna, Relay FPCB Remove

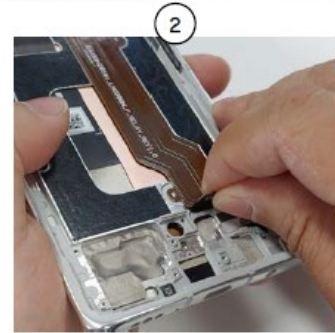
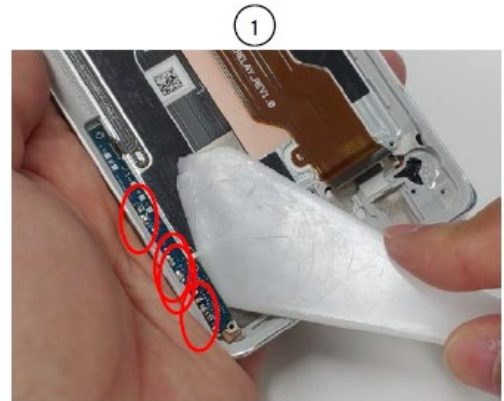
### 1. Battery Remove

- ① Disassemble the battery Spray the liquid at 4 corners, and disassemble with Hera after 30 seconds.



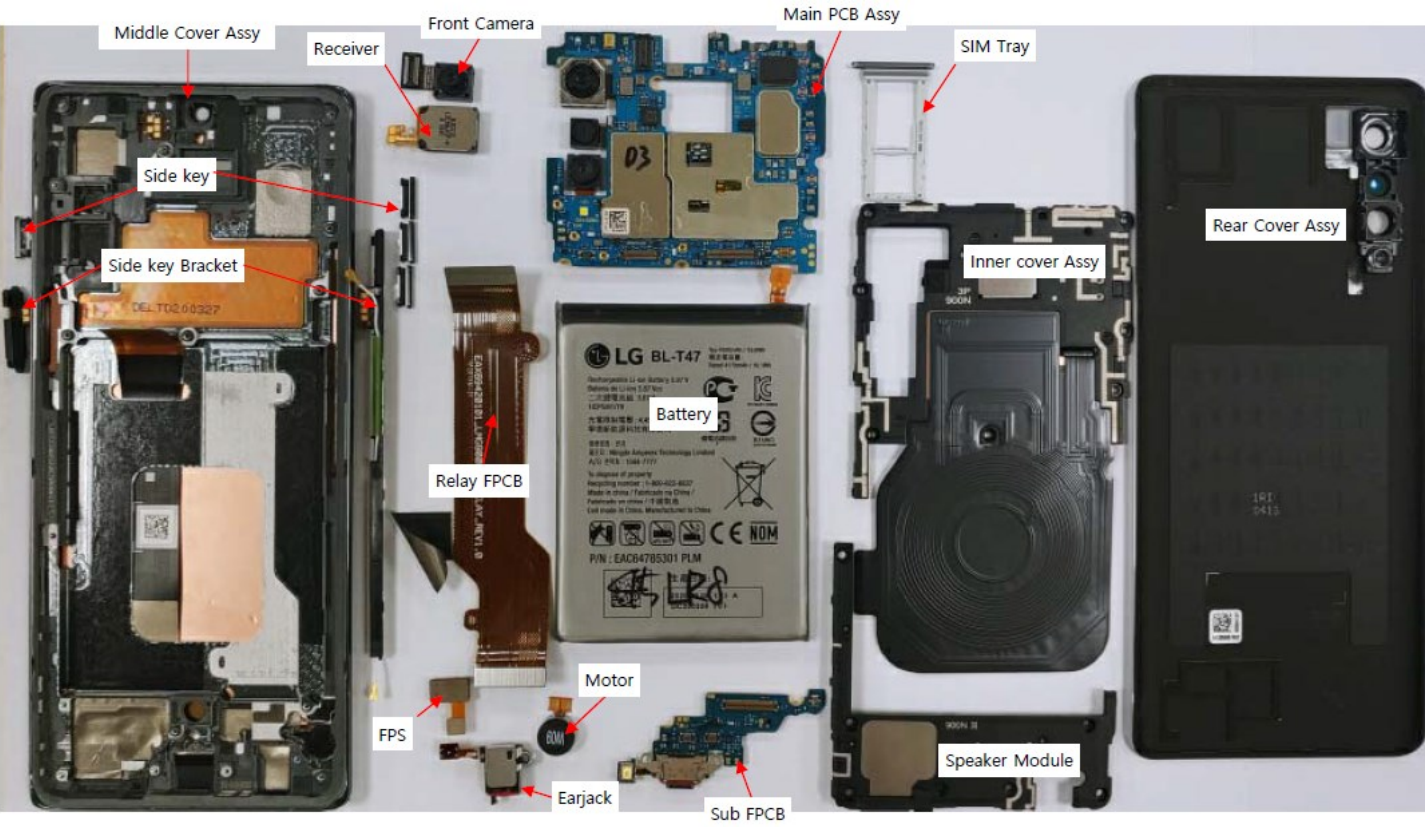
### 2. Sub6 ANT & Relay FPCB Remove

- ① Disassemble sub6 PCB side using Hera.  
※ Be careful of the deformation of the 4 clips
- ② Disassemble by holding the lower part of Relay FPCB and lifting it




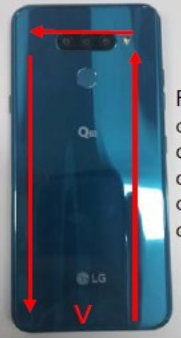

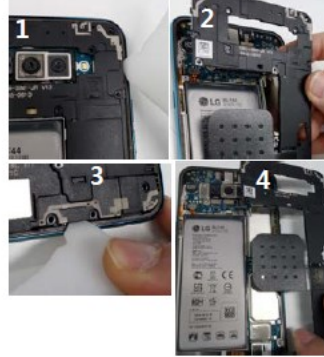



# 37. LMG900EM

## 9. EXPLODED VIEW





# 38. LMX525EAW

## 1 Phone Disassemble Guide

1. Disassemble SIM Tray	2. Disassemble Rear cover	3. Disassemble Screw (17ea)	4. Disassemble Inner Cover
	 <p data-bbox="535 676 714 840">From the bottom of the rear cover, disassemble direction of counter clockwise</p>		
5. Disassemble Connector (2ea) and Main PCB	6. Disassemble HW Parts (2ea)	7. Complete Disassembling	
			

# 38. LMX525EAW

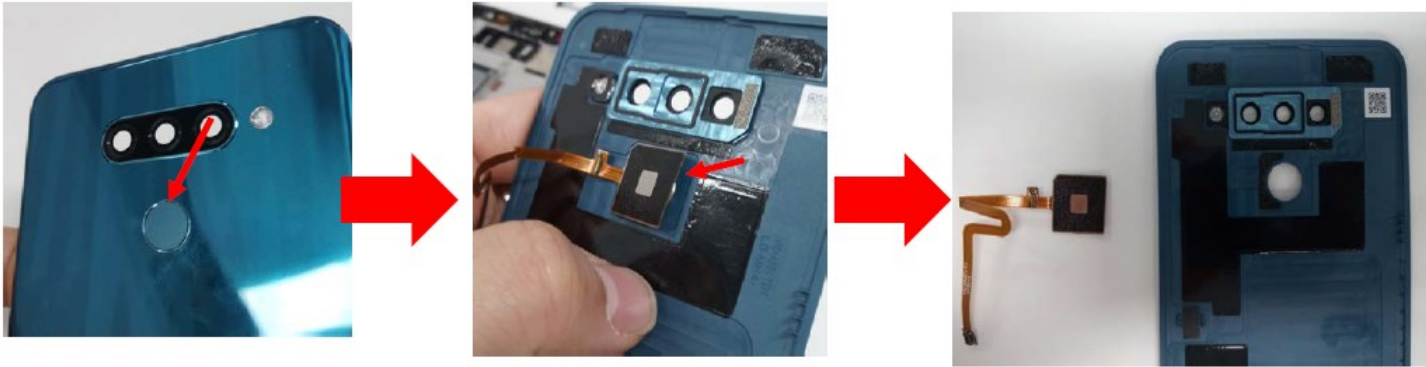
## 2 Battery Disassemble Guide

<p>1. Leave Bar Assy in freezing chamber (-20°, 20min)</p> 	<p>2. Disassemble Battery</p>  <p>Put "Hera" into the lower right side of battery and disassemble</p>	<p>3.</p>	<p>4.</p>
<p>5.</p>	<p>6.</p>	<p>7.</p>	<p>8.</p>



# 38. LMX525EAW

## 3 FPS Disassemble Guide



Push finger print sensor until the other side of the FPS peel off a little. Then disassemble it from the rear cover

## 4 FPS re-assemble Guide



Put the finger print sensor on the FPS guide of rear cover. Compress after assemble.



# 38. LMX525EAW

## 5 Cover Rear Disassemble Guide

- ① Disassemble the battery cover of the bottom edge using a vacuum item.
- ② Apply enough strength to make a gap, and then put a spatula through the gap to open it.
- ③ After lifting the cover up, separate the connector of the fingerprint key FPCB using a spatula.





# 39. LMX430EMW

## 1 Phone Disassemble Guide

1. Disassemble SIM Tray	2. Disassemble Rear cover	3. Disassemble Screw (20ea)	4. Disassemble Inner Cover
 <p>A photograph of the back of a black LG smartphone. A white SIM tray is shown being inserted into the bottom-left corner of the rear cover. An arrow points from the tray to the insertion point.</p>	 <p>From the bottom left of the rear cover, disassemble direction of red arrows.</p>	 <p>A photograph of the back of the phone with the rear cover removed. Twenty screws are circled in red, indicating they need to be removed. The screws are located around the perimeter of the phone's frame.</p>	 <p>A series of four small images showing the disassembly of the inner cover. Step 1 shows the inner cover being lifted. Step 2 shows the inner cover being further separated. Step 3 shows the inner cover being completely removed. Step 4 shows the inner cover being held up, revealing the internal components.</p>
5. Disassemble Connector (2ea) and Main PCB	6. Disassemble HW Parts (2ea)	7. Complete Disassembling	
 <p>A photograph of the main PCB with the battery removed. Two red boxes highlight the connectors on the left and right sides of the board.</p>	 <p>A photograph of the main PCB with two red boxes highlighting the hardware parts to be removed. Red arrows point to the specific components being removed.</p>	 <p>A photograph showing the complete disassembly of the phone. The main PCB, battery, SIM tray, rear cover, and inner cover are laid out on a white surface.</p>	

# 39. LMX430EMW

## 2 Battery Disassemble Guide

<b>1. . Leave Bar Assy in freezing chamber (-20°, 20min)</b>	<b>2. Disassemble Battery</b>	<b>3.</b>	<b>4.</b>
	 <p>Put "Hera" into the bottom side of battery and disassemble</p>		
<b>5.</b>	<b>6.</b>	<b>7.</b>	<b>8.</b>

# 39. LMX430EMW

## 3 FPS Disassemble Guide



Push finger print sensor until the other side of the FPS peel off a little. Then disassemble it from the rear cover

## 4 FPS re-assemble Guide



Put the finger print sensor on the FPS guide of rear cover. Compress after assemble by hand.

# 39. LMX430EMW

## 5 Cover Rear Disassemble Guide

- ① Separate the HOOK at the right bottom of the LCD using a spatula.
- ② Separate the lower rear cover by opening the gap of the open rear cover.
- ③ After lifting the cover up, separate the connector of the fingerprint key FPCB using a spatula.





# 40. LMV405EBW

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## 1 SIM Tray, Rear Cover Assembly Remove

### 1. SIM Tray Remove

Insert ejector pin to the hole of SIM tray on the right side of the device, then push it. When it comes out, remove SIM tray.



### 2. Rear Cover Assembly Remove

- ① Stick a vacuum sucker to the lower part of rear cover glass
- ② Slightly lift the rear cover glass by pulling it, then insert spatula into the gap between the middle cover and the rear cover. Slide the spatula along the outline of the phone. When the rear cover is lifted enough, open it with care.



# 40. LMV405EBW

## 2 Screw, Inner Cover Assembly Remove

### 1. Disassemble Screw (14ea)



### 2. Disassemble Speaker Module, INTENNA

Disassemble Speaker Module and Inner Cover(Antenna), used to plastic tool.

※ be careful Hook crack of cover



# 40. LMV405EBW

## 3 Main PCB / Ear-jack Remove

### 1. Disassemble PCB

- ① Disassemble PCB connector by hands and then disassemble main PCB.
- ② Disassemble Main PCB to USB FPCB Connect

※ be careful to C-Clip break.



### 2. Disassemble Ear-jack FPCB

- ① Disassemble screw, Ear – jack FPCB
- ② Disassemble connect Ear-jack and ear-jack Module



# 40. LMV405EBW

## 4 USB FPCB Remove

### 1. Disassemble USB FPCB

Disassemble USB FPCB by hands and then disassemble Folder

※ be careful FPCB break





# 40. LMV405EBW

---

## 5 Motor/ Side Key FPCB/ Receiver Remove

### 1. Disassemble

- ① Poking tweezers into the gap below the motor and lift it.
- ② Poking tweezers into the gap below the front camera and lift it.
- ③, ④ Remove Side key Brackets by lifting it.
- ⑤ Poking tweezers into the gap below the receiver and remove it minding that FPCB could be easily torn.





# 40. LMV405EBW

## 6 Battery Remove

### 1. Disassemble Battery

Put it into cold chamber (-20°, 30min), then remove battery cell.

When it is put under low-temperature environment, adhesion force of battery tape is dramatically decreased.

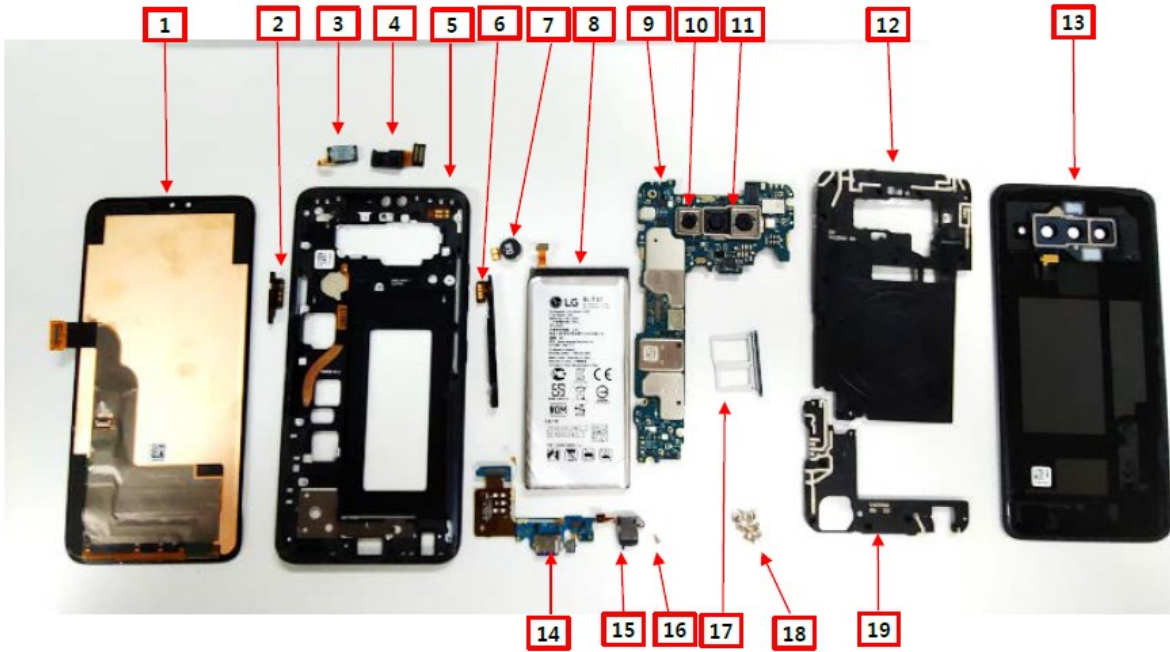
After getting it out from the chamber, remove battery cell by using spatula with care.



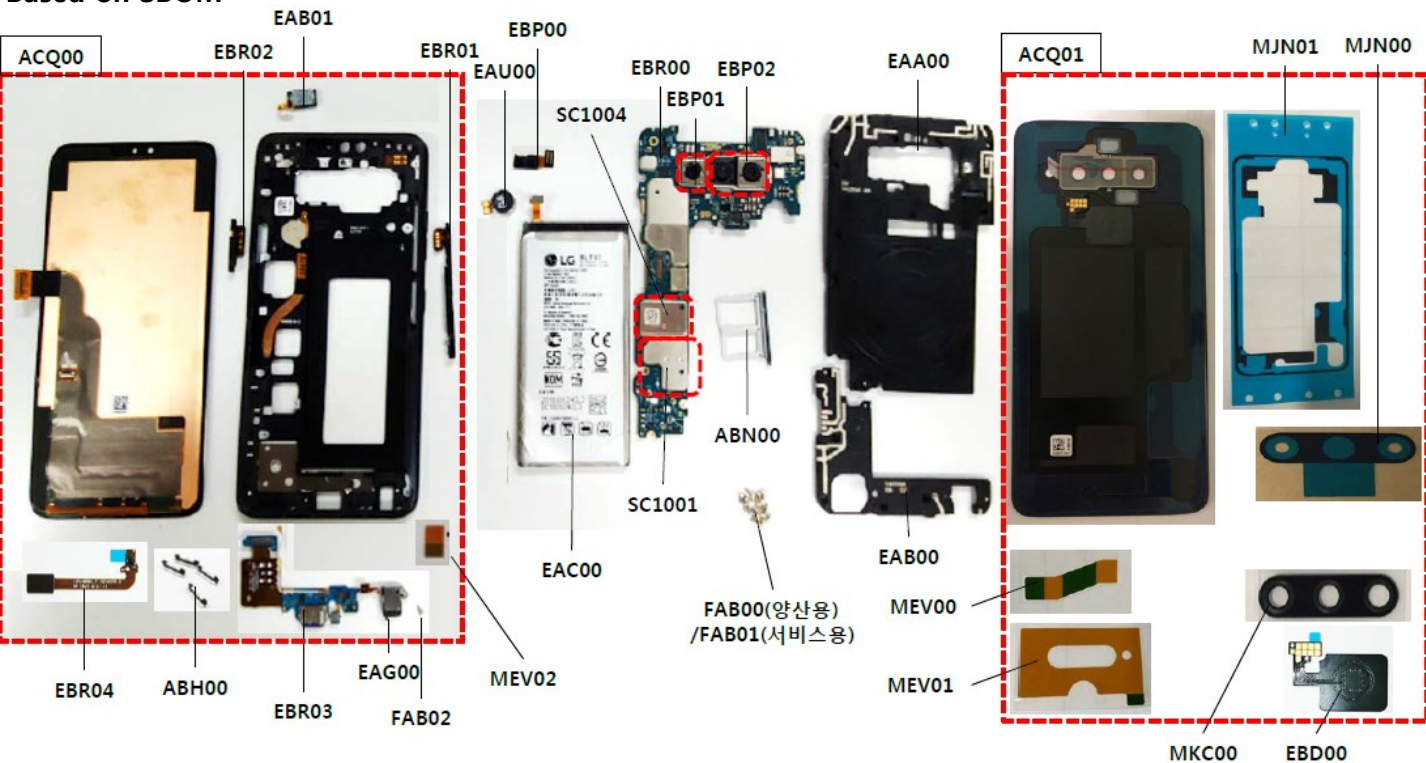
# 40. LMV405EBW

## 7 Service Level Disassembly

1	POLED Display
2	Side Key bracket power
3	Receiver
4	Front Camera
5	Middle Cover Assembly
6	Side Key bracket volume
7	Motor
8	Battery
9	Main PCB
10	Tele Camera
11	Main Camera
12	Inner Cover (Antenna)
13	Rear Cover Assembly
14	USB FPCB
15	Ear - jack
16	Screw, Ear-jack
17	SIM Tray
18	SCREW
19	Speaker Module




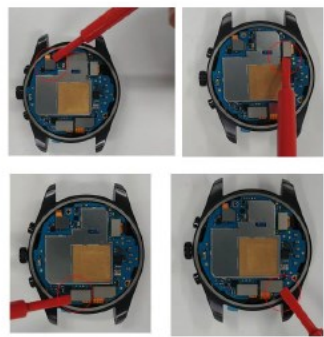






## Based on SBOM





# 41. LMW315

<p>1. Disassemble Band (2EA)</p> 	<p>2. Disassemble Rear cover (1)</p>  <p>Using Hot Plate 80°C / 5 minutes</p>	<p>3. Disassemble Rear cover (2)</p>  <p>Put the Hera into the charging groove to disassemble Rear cover</p>	<p>4. Disassemble Connector</p> 
<p>5. Disassemble Screw (2EA)</p> 	<p>6. Disassemble Screw (3EA)</p> 	<p>7. Disassemble LCD/ Hands Module</p>  <p>Be careful with the arrows. LCD panel can be broken by shaft</p>	<p>8. Complete Disassembling</p> 

## Battery Disassemble Guide



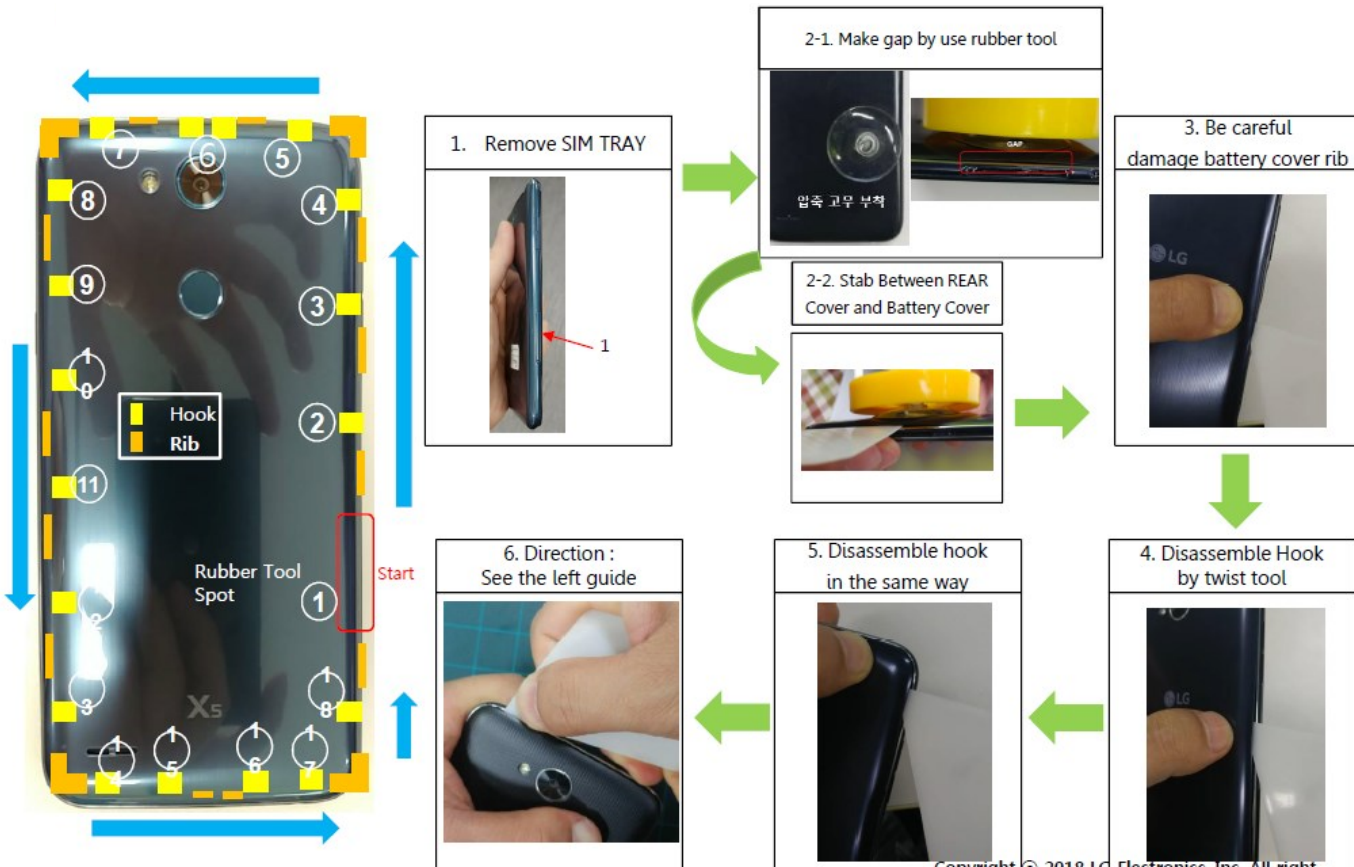
Put the plastic herma in the space between the right side of the battery and the frame.  
Turn it to the right and remove the battery.

The battery is fixed with double-sided tape.

(Do not give too much force - risk of movement coil damage)

# 42. LMX510EW

## Battery Disassemble Guide



# 42. LMX510EW





# 43. LMK410EMW

## 1 Phone Disassemble Guide

1. Disassemble SIM Tray



2. Disassemble Rear cover



3. Disassemble fingerprint Screw (2ea)



4. Disassemble fingerprint



5. Disassemble Screw (19ea)



6. Disassemble Inner Cover



7. Disassemble Connector (9 ea)



8. Disassemble main PCBA and Sub PCBA



9. Disassemble Camera(5ea)



10. Complete Disassembling





## 44. LMK510EMW

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### 1. SIM Tray Remove

- Use the eject pin for push out the SIM tray.



# 44. LMK510EMW

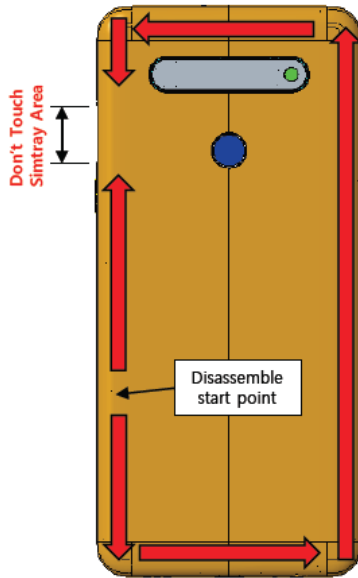
## 2. Rear Cover Assy Remove

- Disassemble the rear cover using a spatula as shown in the following sequence.

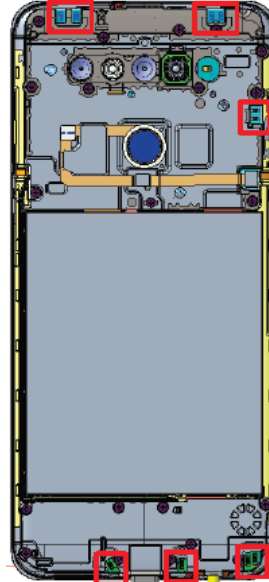
### <Disassembly Method>



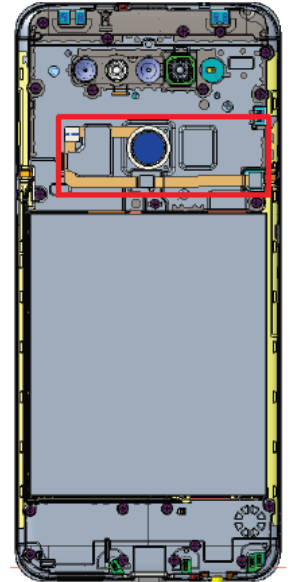
### <Disassemble direction>



### <Caution of C-dip damage>



### <Caution of FPS FPCB damage>



## 3. Unconnect the FPS FPCB connect





# 44. LMK510EMW

## 4. Disassemble the screw(21ea)



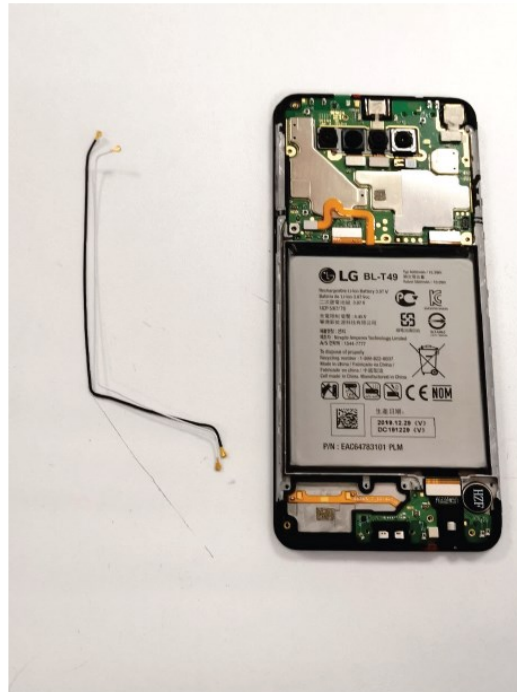
## 5. Disassemble the Inner Cover(Top/BTM)

- ① Inner Cover(Top) : Remove it from red circle point
- ② Inner Cover(BTM) : Remove it from red circle point



## 6. Disassemble of Coaxial cable(2ea)

- Use a tweezers to release the connector and disassemble the coaxial cable.





# 44. LMK510EMW

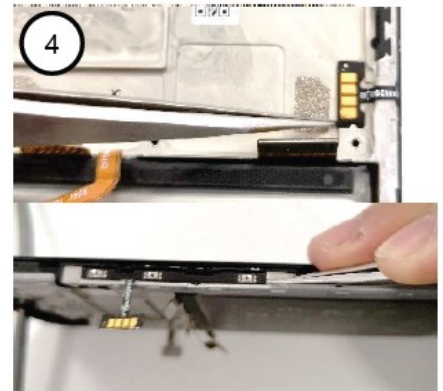
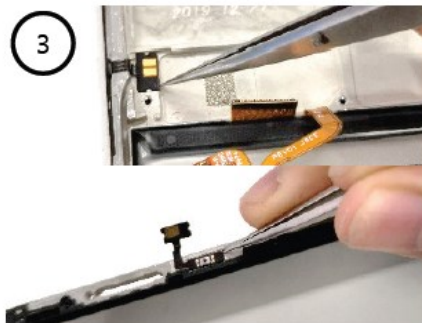
## 7. Disassemble of Main/Sub PCB(2ea)

- ① Use a tweezers to release of connector as like below point(Battery, LCD, Main FPCB)
- ② Use a tweezers to disassemble the Main PCB in the red circle point.
- ③ Use a tweezers to disassemble the Sub\_PCB in the red circle point.



## 8. Disassemble of Module and FPCB

- ① Use a tweezers to disassemble the Receiver module using red arrow point.
- ② Use a tweezers to disassemble the Motor using red arrow point.
- ③ Use a tweezers to disassemble the Power key FPCB.
- ④ Use a tweezers to disassemble the Volume key FPCB.



# 44. LMK510EMW

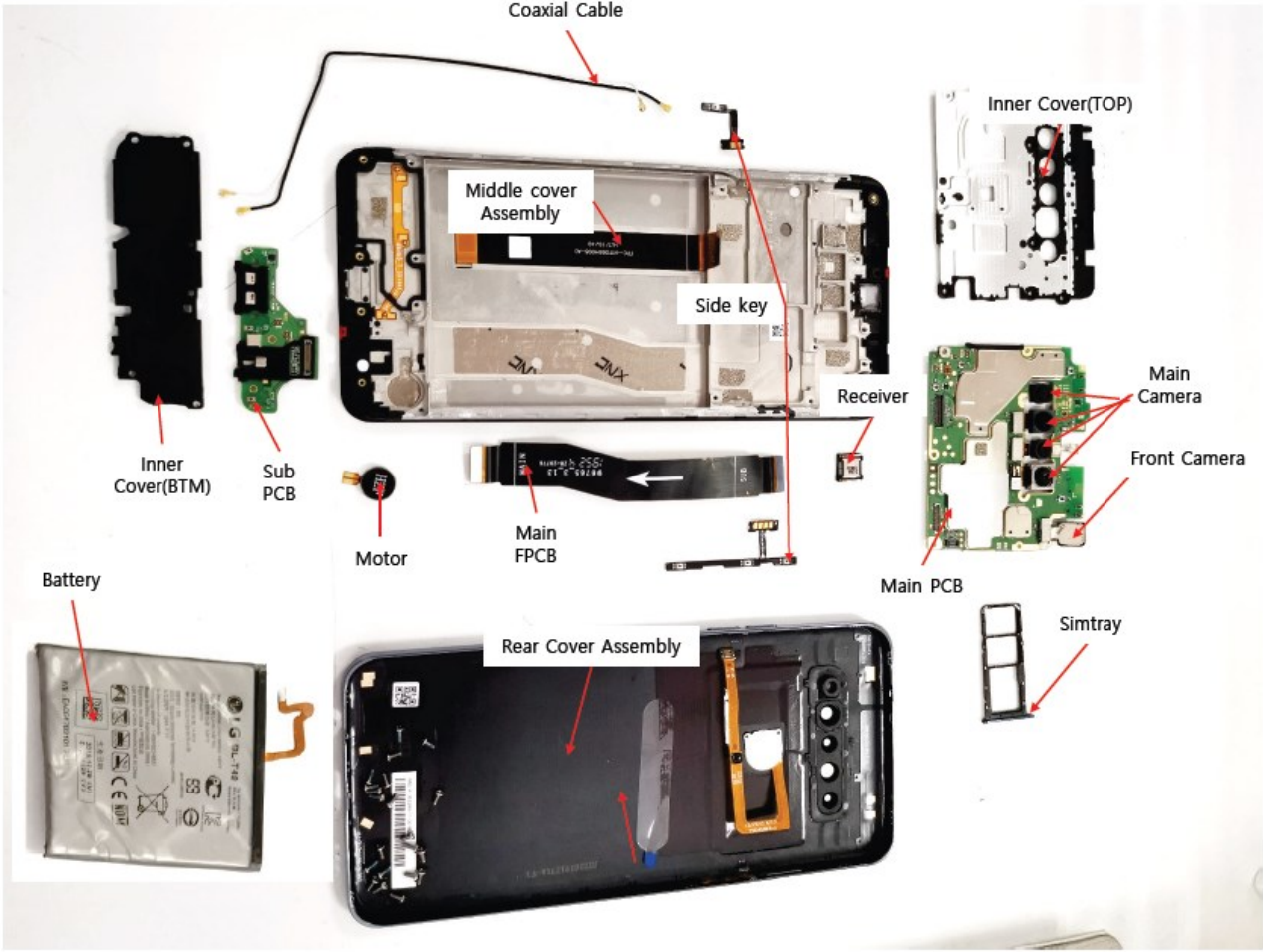
## 9. Disassemble of Battery and Main FPCB

- ① Use spatula to disassemble the battery after freezing in the refrigerating chamber (-20°C , 30min).
- ② Remove the Main FPCB.





# 44. LMK510EMW

## 10. Service Level Disassembly



# 45. LMQ630EAW

## 1 Phone Disassemble Guide

<p>1. Disassemble SIM Tray</p>	<p>2. Disassemble Rear cover</p>	<p>3. Disassemble the FPS Bracket</p>	<p>4. Disassemble the screw(22ea)</p>	<p>5. Disassemble the Middle cover</p>
 <p>Use the eject pin for push out the SIM tray.</p>				
<p>6. Disassemble Connector/RF cable</p>	<p>7. Disassemble PCB(2 type) / Battery</p>	<p>8. Disassemble HW material</p>	<p>7. Complete Disassembling</p>	
				







# 45. LMQ630EAW

## 1 Phone Disassemble Guide (Detail)

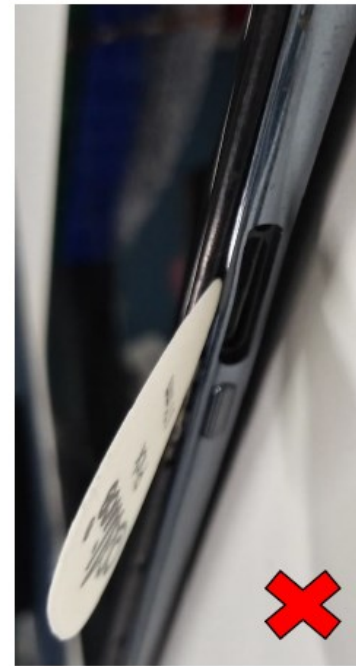
### 5. Disassemble the Middle cover

- Disassemble the Middle cover using a spatula as shown in the following sequence.

<Caution of SIM Tray area damage >



<Disassembly Method>



# 45. LMQ630EAW

## 1 Phone Disassemble Guide (Detail)

### 6. Disassemble of Coaxial cable(2ea)

- ① Use a tweezers to release the BtoB connector(Main FPCB) and disassemble the coaxial cable.
- ② Use a tweezers to release the Battery connector protective film.
- ③ Use a tweezers to release the connector and disassemble the Deco camera bracket Assy
- ④ Use a tweezers to release of BtoB connector (Battery, LCD, Main FPCB)

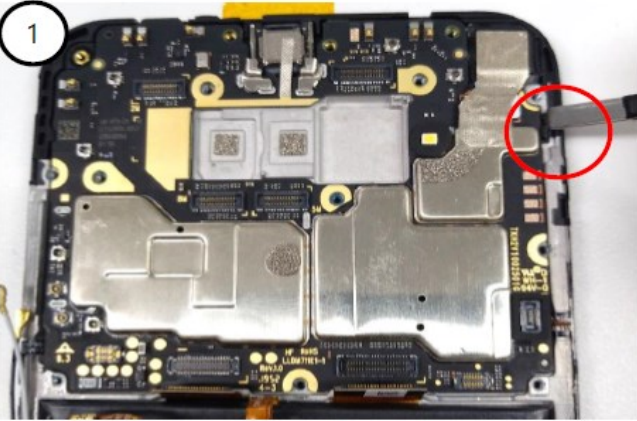


# 45. LMQ630EAW

## 1 Phone Disassemble Guide (Detail)

### 7. Disassemble of Main/Sub PCB(2ea)

- ① Use a tweezers to disassemble the Main PCB in the red circle point.
- ② Use a tweezers to disassemble the Sub\_PCB in the red circle point.



### 7. Disassemble of Battery and Main FPCB

- ① Use spatula to disassemble the battery after freezing in the refrigerating chamber (-20°C , 30min).
- ② Remove the Main FPCB.



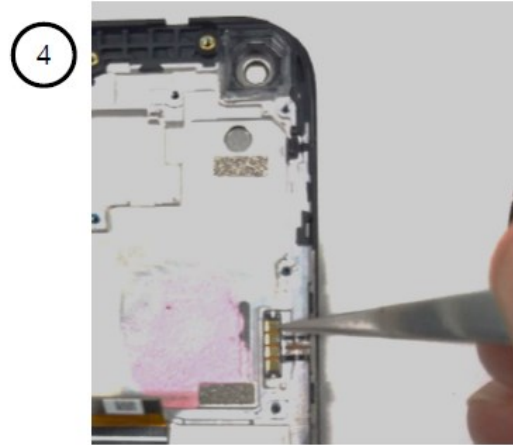
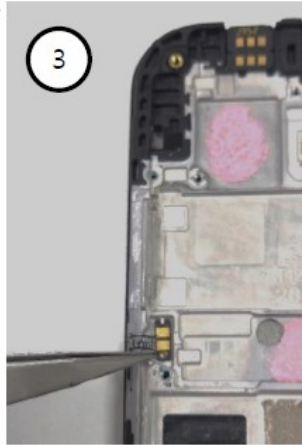
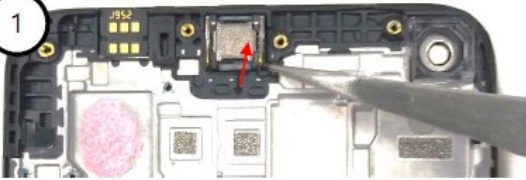


# 45. LMQ630EAW

## 1 Phone Disassemble Guide (Detail)



### 9. Disassemble of Module and FPCB

- ① Use a tweezers to disassemble the Receiver module using red arrow point.
- ② Use a tweezers to disassemble the Motor using red arrow point.
- ③ Use a tweezers to disassemble the Power key FPCB.
- ④ Use a tweezers to disassemble the Volume key FPCB.
- ⑤ Use a tweezers to disassemble the P/L Sensor PCBA



# 45. LMQ630EAW

## 2 Battery Disassemble Guide

1. Leave Bar Assy in freezing chamber (-20°, 30min)	2. Disassemble Battery	3.	4.
	 <p>Put "Hera" into the lower side of battery and disassemble</p>		

## 3 FPS Disassemble Guide













Push finger print sensor until the other side of the FPS peel off a little. Then disassemble it from the rear cover



# 46. LMK420EMW

## 1 Phone Disassemble Guide

<p>1. Disassemble SIM Tray</p>	<p>2. Disassemble Rear cover</p>	<p>3. Disassemble Middle cover Screw (14ea)</p>	<p>4. Disassemble Middle cover &amp; Fingerprint</p>
			
<p>5. Disassemble Bracket Screw (4ea)</p>	<p>6. Disassemble Bracket CAM &amp; SPK box</p>	<p>7. Disassemble Connectors (4ea) &amp; Coaxial cables (2ea)</p>	<p>8. Disassemble Main PCBA and Sub PCBA</p>
			
<p>9. Disassemble Cameras (5ea)</p>	<p>10. Complete disassembling</p>		
			

# 46. LMK420EMW

## 2 Battery Disassemble Guide

### 1. Leave Bar Assy in Temperature box (-20°C, 20min)



### 2. Disassemble NOTES








1. After taking out the Bar Assy in the machine, flip the battery face down and tap the battery down on the table, the battery will be separated from the adhesive.

2. The disassembled battery is not allowed to be used for a second time.

### 3. Disassemble Battery

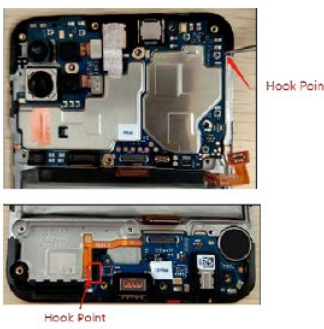

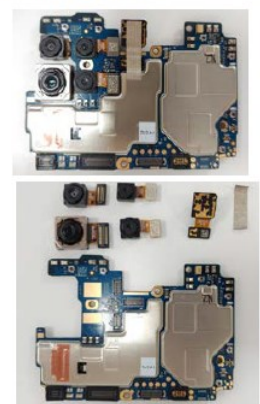







# 47. LMK520EMW




<p><b>1. SIM Tray Remove</b></p> 	<p><b>2. Rear Cover Assy Remove</b></p> <p>Disassemble rear cover uses the existing equipment RG-250 in service center.</p>	<p><b>3. Screw Remove(16ea)</b></p> 	<p><b>4. Middle cover/FPS BTB Remove</b></p> 
<p><b>5. Screw Remove(2ea)</b></p> 	<p><b>6. Camera cover &amp; Speaker Remove</b></p> <p>Hook point</p> 	<p><b>6. Camera cover &amp; Speaker Remove</b></p> 	<p><b>7. Disassemble connectors, Cable</b></p> 



# 47. LMK520EMW

<p><b>8. Main/Sub PCB Remove</b></p> 	<p><b>8. Main/Sub PCB Remove</b></p> 	<p><b>9. Camera Remove</b></p> 	<p><b>10. Receiver &amp; Motor Remove</b></p> 
<p><b>11. Side/Power key FPCB Remove</b></p> 	<p><b>11. Speaker FPCB Remove</b></p> 	<p><b>12. Battery Remove</b></p> 	<p><b>13. Link FPCB Remove</b></p> 







# 48. LMV600EA

<p><b>1. Disassemble Rear cover</b></p>  <p>▶ Cover Rear</p> <ol style="list-style-type: none"> <li>1. Slightly lift the rear cover using tools such as suction cups.</li> <li>2. Slowly separate the gap between the plastic cover and the rear cover.</li> <li>3. Slide the spacers along the outside of the phone.</li> <li>4. When rear cover is lifted enough, open it with care.</li> </ol> <p>LG Official User Guide</p>	<p><b>2. Disassemble Screw (14ea)</b></p> 	<p><b>3. Disassemble Antenna</b></p>  <p>2. Disassemble Inset</p> <ol style="list-style-type: none"> <li>1. Lift, disassemble and loosen the fixing part of the back.</li> <li>2. Gently lift the lower inset cover by making the spatula or steam below.</li> </ol>	<p><b>4. Disassemble Connector/Screw(2ea)</b></p>  <p> <span style="color:red">■</span> FPCB Connector  <span style="color:green">■</span> Coaxial Cable Connector  <span style="color:yellow">■</span> Screws (2 points)     </p>
<p><b>5. Disassemble Main PCB</b></p> <p>② Gently lift main PCB from the top.</p> 	<p><b>6. Disassemble Sub Antenna</b></p> <p>③ Disassemble Sub antenna by lifting the point as shown below.</p> 	<p><b>7. Disassemble Earjack/Battery(next page)/IO fpcb</b></p>  <p>         ② Disassemble earjack by lifting the point as shown below.          ③ Disassemble IO FPCB by lifting as below. Make sure that MEC FPCB is not broken while the process.     </p>	<p><b>8. Complete Disassembling</b></p> <p>Overall view of every disassembled parts</p> 



# 48. LMV600EA

## Battery Disassemble Guide

<p><b>1. Put bar assy into the chamber.</b></p> 	<p><b>2. Operate chamber.</b></p>  <table border="1" data-bbox="378 869 692 946"> <tr> <td>Temperature</td> <td>-20°C</td> </tr> <tr> <td>Time</td> <td>30 min</td> </tr> </table>	Temperature	-20°C	Time	30 min	<p><b>3. Impact bar assy twice at rubber mat.</b></p> 	<p><b>4. Put bar assy into the chamber.</b></p> 
Temperature	-20°C						
Time	30 min						
<p><b>5. Operate chamber.</b></p>  <table border="1" data-bbox="28 1313 349 1391"> <tr> <td>Temperature</td> <td>50°C</td> </tr> <tr> <td>Time</td> <td>30 min</td> </tr> </table>	Temperature	50°C	Time	30 min	<p><b>* Do not use spatula.</b></p> <p>ⓐ Battery can be easily detached after being put in a cold chamber for a while.</p> 		
Temperature	50°C						
Time	30 min						

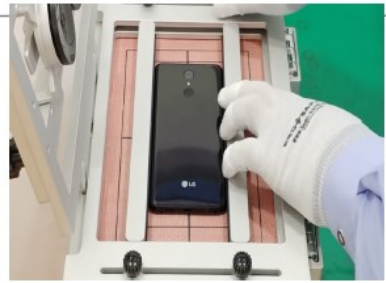
# 48. LMV600EA

Rear Case Disassemble Guide using RG-250 equipment(May vary slightly depending on model)

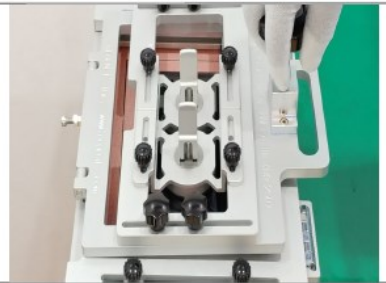
1. Raise suction frame and fixing frame and place phone in the way that rear cover of the phone face heating plate.



2. Turn over cell phone and fix phone with fixing bars from fixing frame (it is convenient if you consider location of suction cups).



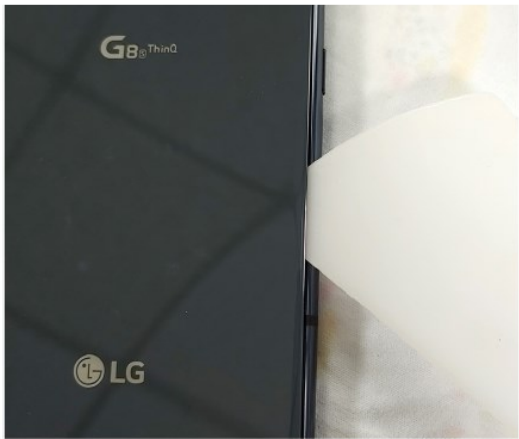
3. Turn Knob screw to the right until rear cover is detached from the main body of cell phone. (Slowly turn knob.)



# 49. LMG810EAW

## 1 Cover Battery Remove

1. Slightly lift the rear cover using tools such as suction cups.
2. Insert spatula into the gap between the middle cover and the rear cover.
3. Slide the spatula along the outline of the phone
4. When rear cover is lifted enough, open it with care.



# 49. LMG810EAW

## 2 Inner Cover Remove

### 1. Disassemble Screw (14ea)



### 2. Disassemble Inner Cover assy

#### 1. Inner Cover TOP

1) Gently lift up to Inner Cover Top

#### 2. Inner Cover BTM

1) In put Spatula hook. (Carefully Part Damage)

2) Lift up Inner Cover BTM

#### 2-1 Inner Cover TOP



#### 2-2 Inner Cover BTM



# 49. LMG810EAW

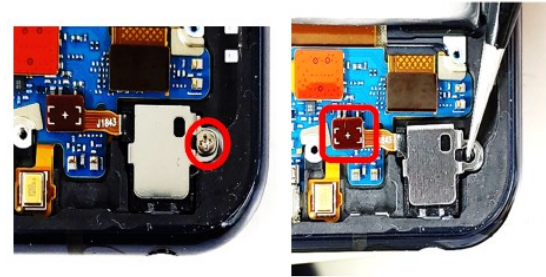
## 3 SIM Tray & Main PCB, Ear-jack Remove

### 1. Sim Tray & Main PCB Remove

- 1) Disassemble SIM tray with poking SIM removal pin.  
(could be replaced with any thin and rigid tools)
- 2) Disassemble FPCB & Main PCB connector by hands
- 3) Carefully lift from the bottom

### 2. Ear-jack Remove

- 1) Disassemble Screw (1ea)
- 2) Left side Ear-jack FPCB dis-assembly
- 3) Lift ear jacks from the top.





# 49. LMG810EAW

## 4 Battery & RF\_FPCB & USB\_FPCB Remove

### 1. Battery Remove

- 1) Folder insert Chamber (-20°C/30Min)
- 2) Spatula in Bottom Gap. And Lifting Battery



### 2. RF\_FPCB Remove

- 1) Disassemble FPCB (red box)
- 2) Lift RF\_FPCB to Assembly



### 3. USB\_FPCB

- 1) Disassemble FPCB by hands
- 2) Part of Mic Lift up
- 3) gently Lift up to USB FPCB (Carefully item Crack and damage)





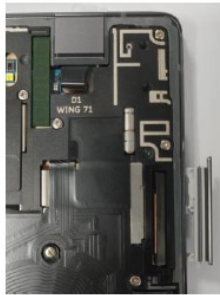
# 50. LMF100EMW

## 1. Disassemble Screws (13ea)



## 2. Disassemble SIM Tray

- ① Disassemble SIM tray with poking SIM ejector pin. (could be replaced with any thin and rigid tools)



## 3. Disassemble Inner

- ① Gently lift the lower left part and lift clockwise and loosen the fixing part of the hook.
- ② Gently lift the lower inner cover by poking the spatula as shown below.

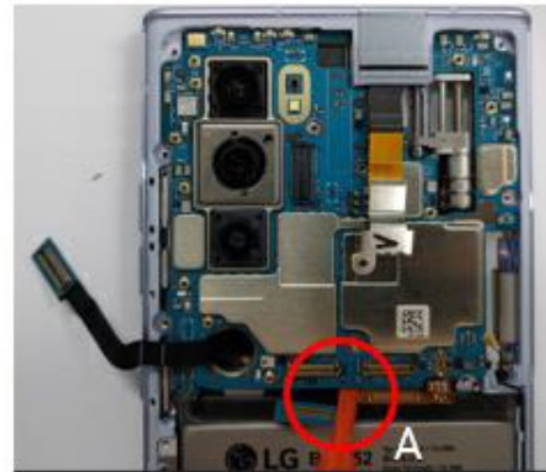




# 50. LMF100EMW

## ► Main PCB

① Disassemble the FPCB connectors and coaxial cable connector

② Gently lift main PCB from the bottom.



-  FPCB Connector : 9Points
-  Coaxial Cable Connector : 2 Points



# 50. LMF100EMW

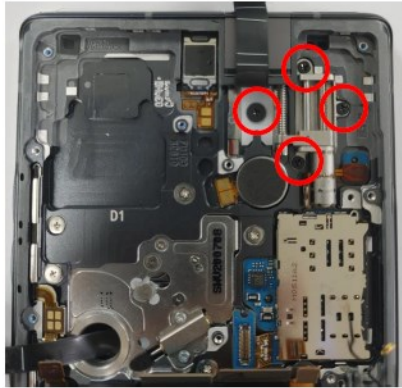
## 2. Disassemble Battery

① Battery can be easily detached after being put in a cold chamber for a while.



## 3. Disassemble Battery

① Lift the fpcb and disassemble the screw.



③ Pull the pop-up camera of the top direction.



② Gently lift the the popup motor and disassemble the connector.



④ Disassemble by pulling the pop-up camera as shown.



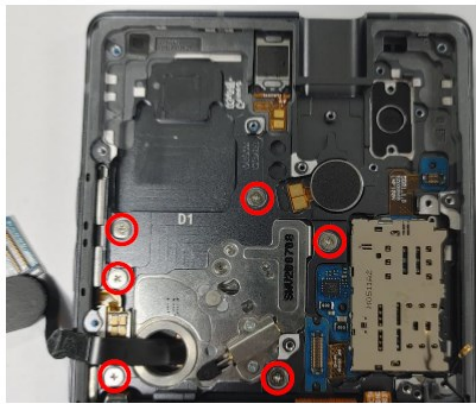


# 50. LMF100EMW










## ► Cover Lower Assy

### 1. Disassemble Screws (6ea)










① Rotate the display part about 7 degrees and pull it toward the top.



# 51. LMX210EM

<p>1. Remove screws (13point)</p>	<p>2. Disassemble Rear cover</p>	<p>3. Disassemble Connector</p>	<p>4. Disassemble Main PCB</p>
			
<p>5. Disassemble HW parts(2ea)</p>	<p>6. Disassemble HW parts(1ea)</p>	<p>7. Disassemble main camera</p>	<p>8. Disassemble front camera</p>
			
<p>8. Complete Disassembling</p>			
			

# 52. LMX210EMW

<b>1. Remove screws (13point)</b>	<b>2. Disassemble Rear cover</b>	<b>3. Disassemble Connector</b>	<b>4. Disassemble Main PCB</b>
			
<b>5. Disassemble HW parts(2ea)</b>	<b>6. Disassemble HW parts(1ea)</b>	<b>7. Disassemble main camera</b>	<b>8. Disassemble front camera</b>
			
<b>8. Complete Disassembling</b>			
			



# 53. LMX410EO

<p><b>1. Disassemble SIM tray</b></p> 	<p><b>2. Disassemble battery cover</b></p>  <p>Use tools, one by one, in numerical order</p>	<p><b>3. Disassemble screw(17ea)</b></p> 	<p><b>4. Disassemble rear cover</b></p>  <p>No. 4. use tool and Disassemble bottom side</p> <p>No. 3. use tool and disassemble top side.</p> <p>No. 1 and No. 2. use tool and disassemble hook one by one.</p>
<p><b>5. Disassemble Connector</b></p> 	<p><b>6. Disassemble Main PCB</b></p> 	<p><b>7. Disassemble HW Parts (4ea)</b></p> 	<p><b>8. Disassemble main camera</b></p> 
<p><b>9. Disassemble rear camera</b></p> 	<p><b>10. Complete Disassembling</b></p>  <p>cover Assy Rear</p> <p>battery</p> <p>receiver</p> <p>cover Assy Middle</p> <p>fingerprint</p> <p>PCBA Assy</p> <p>Screw</p> <p>front camera</p> <p>Main camera</p> <p>Simtray</p> <p>Speaker</p> <p>Speaker FPCB</p> <p>RF cable</p> <p>LCD</p>		

# 54. LMX410EOW

<p><b>1. Disassemble SIM tray</b></p> 	<p><b>2. Disassemble battery cover</b></p>  <p>Use tools, one by one, in numerical order</p>	<p><b>3. Disassemble screw(17ea)</b></p> 	<p><b>4. Disassemble rear cover</b></p>  <p>No. 4. use tool and Disassemble bottom side</p> <p>No. 3. use tool and disassemble top side.</p> <p>No. 1 and No.2. use tool and disassemble hook one by one.</p>
<p><b>5. Disassemble Connector</b></p> 	<p><b>6. Disassemble Main PCB</b></p> 	<p><b>7. Disassemble HW Parts (4ea)</b></p> 	<p><b>8. Disassemble main camera</b></p> 
<p><b>9. Disassemble rear camera</b></p> 	<p><b>10. Complete Disassembling</b></p>  <p>receiver</p> <p>fingerprt</p> <p>PCBA Assy</p> <p>Screw</p> <p>cover Assy Rear</p> <p>battery</p> <p>cover Assy Middle</p> <p>front camera</p> <p>Simtray</p> <p>Main camera</p> <p>RF cable</p> <p>LCD</p> <p>Speaker FPCB</p> <p>Speaker</p>		



# 55. LMQ610EA

## Rear Cover Disassembly

1



2



3



4







Put the phone in a high temperature chamber in 50°C for 30 minutes, or heat the rear cover by using a heat gun, or a high temperature dryer (20sec)

Using a suction tool, pull out the rear cover at the bottom to make gap between rear cover and middle cover.

Insert a spatula and disassemble rear cover from direction ① to ④.

Remove the rear cover by hand.

# 55. LMQ610EA

Inner Cover Disassembly			
1	2	3	4
			
Loosen screws (11 points).	Using a spatula, unhook left, right, and top side of the inner cover (4 points).	Disassemble the bottom part of inner cover by hand.	Disassemble the middle and top part of inner cover by hand.

# 55. LMQ610EA

## Main PCB Disassembly

1



Disassemble connectors  
(4 points).

2



Unhook PCB (2 points).

3



Carefully lift up PCB from  
bar assembly.

# 55. LMQ610EA

## Battery Disassembly

1



2



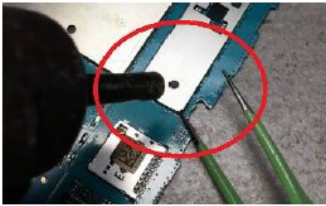
Put the bar assembly in a low temperature chamber in -20°C for 30 minutes.

Disassemble the battery using a spatula.

# 55. LMQ610EA

## Main PCB Shield Can Disassembly

1



2



There are 4 shield cans on the top.

3



There are 5 shield cans on the bottom.

To disassemble a shield can, lift up the shield can by the edge using tweezers and a heat gun.



# 56. LMQ610EM

## Rear Cover Disassembly

1



2



3



4



Put the phone in a high temperature chamber in 50°C for 30 minutes, or heat the rear cover by using a heat gun, or a high temperature dryer (20sec)

Using a suction tool, pull out the rear cover at the bottom to make gap between rear cover and middle cover.

Insert a spatula and disassemble rear cover from direction ① to ④.

Remove the rear cover by hand.

# 56. LMQ610EM

## Inner Cover Disassembly

1



Loosen screws (11 points).

2



Using a spatula, unhook left, right, and top side of the inner cover (4 points).

3



Disassemble the bottom part of inner cover by hand.

4



Disassemble the middle and top part of inner cover by hand.

# 56. LMQ610EM

## Main PCB Disassembly

1



Loosen screws (11 points).

2



Using a spatula, unhook left, right, and top side of the inner cover (4 points).

3



Disassemble the bottom part of inner cover by hand.

# 56. LMQ610EM

## Battery Disassembly

1



2



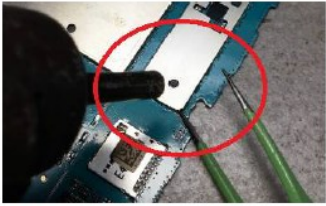
Put the bar assembly in a low temperature chamber in  $-20^{\circ}\text{C}$  for 30 minutes.

Disassemble the battery using a spatula.

# 56. LMQ610EM

## Main PCB Shield Can Disassembly

1



2



There are 4 shield cans on the top.

3



There are 5 shield cans on the bottom.

To disassemble a shield can, lift up the shield can by the edge using tweezers and a heat gun.



# 57. LMQ610EMW

## Rear Cover Disassembly

1



2



3



4







Put the phone in a high temperature chamber in 50°C for 30 minutes, or heat the rear cover by using a heat gun, or a high temperature dryer (20sec)

Using a suction tool, pull out the rear cover at the bottom to make gap between rear cover and middle cover.

Insert a spatula and disassemble rear cover from direction ① to ④.

Remove the rear cover by hand.

# 57. LMQ610EMW

Inner Cover Disassembly			
1	2	3	4
			
Loosen screws (11 points).	Using a spatula, unhook left, right, and top side of the inner cover (4 points).	Disassemble the bottom part of inner cover by hand.	Disassemble the middle and top part of inner cover by hand.

# 57. LMQ610EMW

## Main PCB Disassembly

1



Loosen screws (11 points).

2



Using a spatula, unhook left, right, and top side of the inner cover (4 points).

3



Disassemble the bottom part of inner cover by hand.

# 57. LMQ610EMW

## Battery Disassembly

1



2



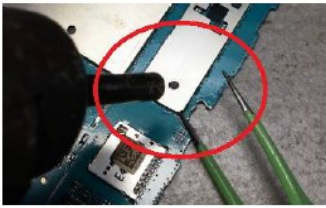
Put the bar assembly in a low temperature chamber in  $-20^{\circ}\text{C}$  for 30 minutes.

Disassemble the battery using a spatula.

# 57. LMQ610EMW

## Main PCB Shield Can Disassembly

1

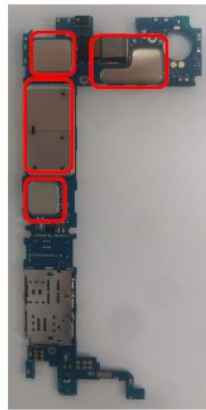


2



There are 4 shield cans on the top.

3



There are 5 shield cans on the bottom.

To disassemble a shield can, lift up the shield can by the edge using tweezers and a heat gun.



# 58. LMQ617EM

## Rear Cover Disassembly

1



Put the phone in a high temperature chamber in 50°C for 30 minutes, or heat the rear cover by using a heat gun, or a high temperature dryer (20sec)

2



Using a suction tool, pull out the rear cover at the bottom to make gap between rear cover and middle cover.

3







Insert a spatula and disassemble rear cover from direction ① to ④.

4



Remove the rear cover by hand.

# 58. LMQ617EM

Inner Cover Disassembly			
1	2	3	4
			
Loosen screws (11 points).	Using a spatula, unhook left, right, and top side of the inner cover (4 points).	Disassemble the bottom part of inner cover by hand.	Disassemble the middle and top part of inner cover by hand.

# 58. LMQ617EM

## Main PCB Disassembly

1



Disassemble connectors (4 points).

2



Unhook PCB (2 points).

3



Carefully lift up PCB from bar assembly.

# 58. LMQ617EM

## Battery Disassembly

1



2



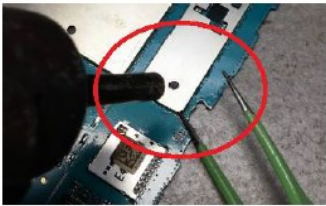
Put the bar assembly in a low temperature chamber in  $-20^{\circ}\text{C}$  for 30 minutes.

Disassemble the battery using a spatula.

# 58. LMQ617EM

## Main PCB Shield Can Disassembly

1



To disassemble a shield can, lift up the shield can by the edge using tweezers and a heat gun.

2



There are 4 shield cans on the top.

3



There are 5 shield cans on the bottom.



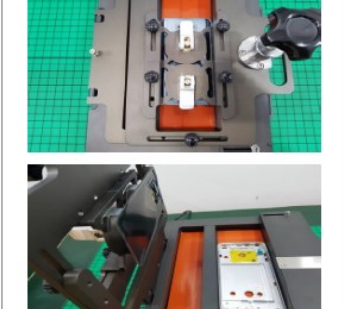







# 59. LGH870

1. Disassemble SIM Tray	2. Heat and pull	3. Use edge for separation	4. Loosen 11 Screws	
				
5. Disassemble Main Ant	6. Disassemble Rear Cover	7. Disconnect 4 Connectors/ Disassemble Main PCB		8. Remove Battery
				

# 59. LGH870







## USE REAR COVER DETACH JIG Disassemble Guide (JIG NAME : RG-250)

<b>1. Disassemble SIM Tray</b>	<b>2. REAR COVER DETACH JIG (RG-250)</b>	<b>3. Use REAR COVER DETACH JIG for separation</b>	<b>4. Loosen 11 Screws</b>
			
<b>5. Disassemble Main Ant</b>	<b>6. Disassemble Rear Cover</b>	<b>7. Disconnect 4 Connectors/ Disassemble Main PCB</b>	<b>8. Remove Battery</b>
			

# 60. LMQ850EM

1. Disassemble SIM Tray	2. Disassemble Rear cover	3. Disassemble Screw	4. Disassemble Sub Ant.
			
5. Disassemble Main Ant.	6. Disassemble Connector	7. Disassemble PCB	8. Disassemble FPCB Lower
			

# 60. LMQ850EM

<p>9. Disassemble Motor</p>  A photograph of the internal components of the LMQ850EM smartphone. A red box highlights the motor located at the top left. A white plastic tool is shown lifting the motor from its mounting.	<p>10. Disassemble VT Cam.</p>  A photograph of the internal components of the LMQ850EM smartphone. A red box highlights the VT camera lens at the top center. A white plastic tool is shown lifting the camera lens from its mounting.	<p>11. Disassemble FPCB Side Key</p>  A photograph of the internal components of the LMQ850EM smartphone. A red box highlights the side key FPCB on the right side. A white plastic tool is shown lifting the FPCB from its mounting.	<p>12. Disassemble FPCB PWR Key</p>  A photograph of the internal components of the LMQ850EM smartphone. A red box highlights the power key FPCB on the right side. A white plastic tool is shown lifting the FPCB from its mounting.
<p>13. Disassemble Receiver</p>  A photograph of the internal components of the LMQ850EM smartphone. A red box highlights the receiver at the top center. A white plastic tool is shown lifting the receiver from its mounting.	<p>14. Complete Disassembling</p>  A photograph showing the complete disassembly of the LMQ850EM smartphone. The components are laid out on a white surface, including the battery, the main PCB, the display, and the back cover.		



# 60. LMQ850EM

## Battery Disassemble Guide

1. Put it into cold chamber (-20°C, 30min)



2. Remove battery cell











# 61. LMQ850EMW



1. Disassemble SIM Tray	2. Disassemble Rear cover	3. Disassemble Screw	4. Disassemble Sub Ant.
			
5. Disassemble Main Ant.	6. Disassemble Connector	7. Disassemble PCB	8. Disassemble FPCB Lower
			

# 61. LMQ850EMW

<p>9. Disassemble Motor</p>  A photograph of the back of a smartphone with the battery cover removed. A red box highlights a small circular component (the motor) at the top left. A white plastic pry tool is shown lifting the component.	<p>10. Disassemble VT Cam.</p>  A photograph of the back of the smartphone. A red box highlights a camera lens assembly at the top center. A white plastic pry tool is shown lifting the assembly.	<p>11. Disassemble FPCB Side Key</p>  A photograph of the back of the smartphone. A red box highlights a small component on the right side. A white plastic pry tool is shown lifting the component.	<p>12. Disassemble FPCB PWR Key</p>  A photograph of the back of the smartphone. A red box highlights a small component on the right side. A white plastic pry tool is shown lifting the component.
<p>13. Disassemble Receiver</p>  A photograph of the back of the smartphone. A red box highlights a small component at the top left. A white plastic pry tool is shown lifting the component.	<p>14. Complete Disassembling</p>  A photograph showing the disassembled components of the smartphone laid out on a white surface. The components include the back cover, battery, camera, motor, side key, power key, and the main phone body.		

# 61. LMQ850EMW











## Battery Disassemble Guide

<b>1. Put it into cold chamber (-20°C, 30min)</b>	<b>2. Remove battery cell</b>
 A photograph of a disassembled smartphone. The back cover is removed, revealing the internal components. The battery cell is visible in the center, with various connectors and components around it. The battery label includes the LG logo, model number BL-T20, and various safety and regulatory symbols.	 A photograph of the same disassembled smartphone. A white plastic pry tool is being used to lift the battery cell out of the phone's chassis. The battery cell is partially detached from its position.

# **VII. Vacuum Cleaner**

# 1. VK7407

## ■ General Information

Standard tools required	Screw driver	○				
	Plier	X				
	Nipper	X				
	Hammer	X				
	Others	X				
Non-standard tools required	(Name)	(Description)				
Types of screws used						Other
						(Description)
Number of screws to be removed	-	11	-	-	-	-
Type of battery cell embedded	Battery 1	Li-Ion Battery Pack				
	Battery 2	-				
	Battery 3	-				
Special instructions / cautions						Other
	Electrical danger	Flammable	Corrosive	Dangerous batteries	Hand pinching	-
	○	X	X	X	○	-
	Please turn off before the disassembly.	-	-	-	Please watch out hand pinching when you disassemble the covers and base.	-

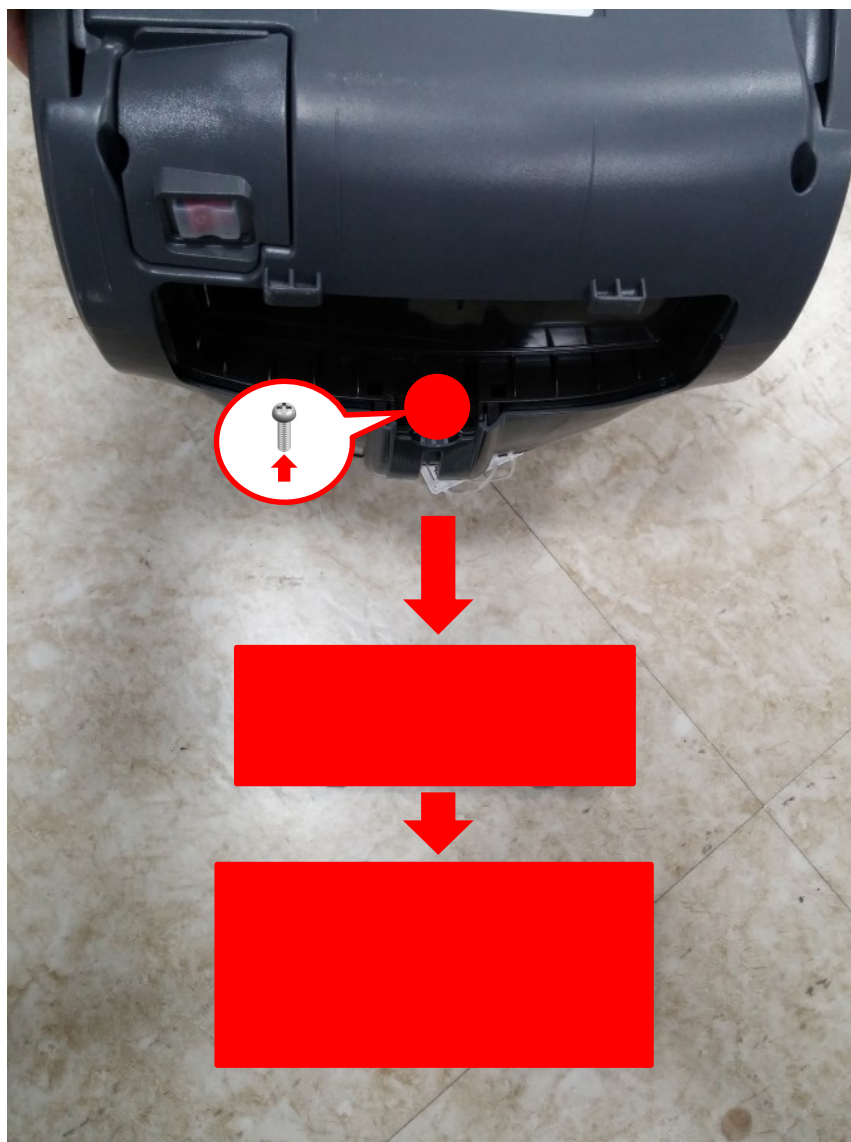




# 1. VK7407

## ■ Disassemble process

2

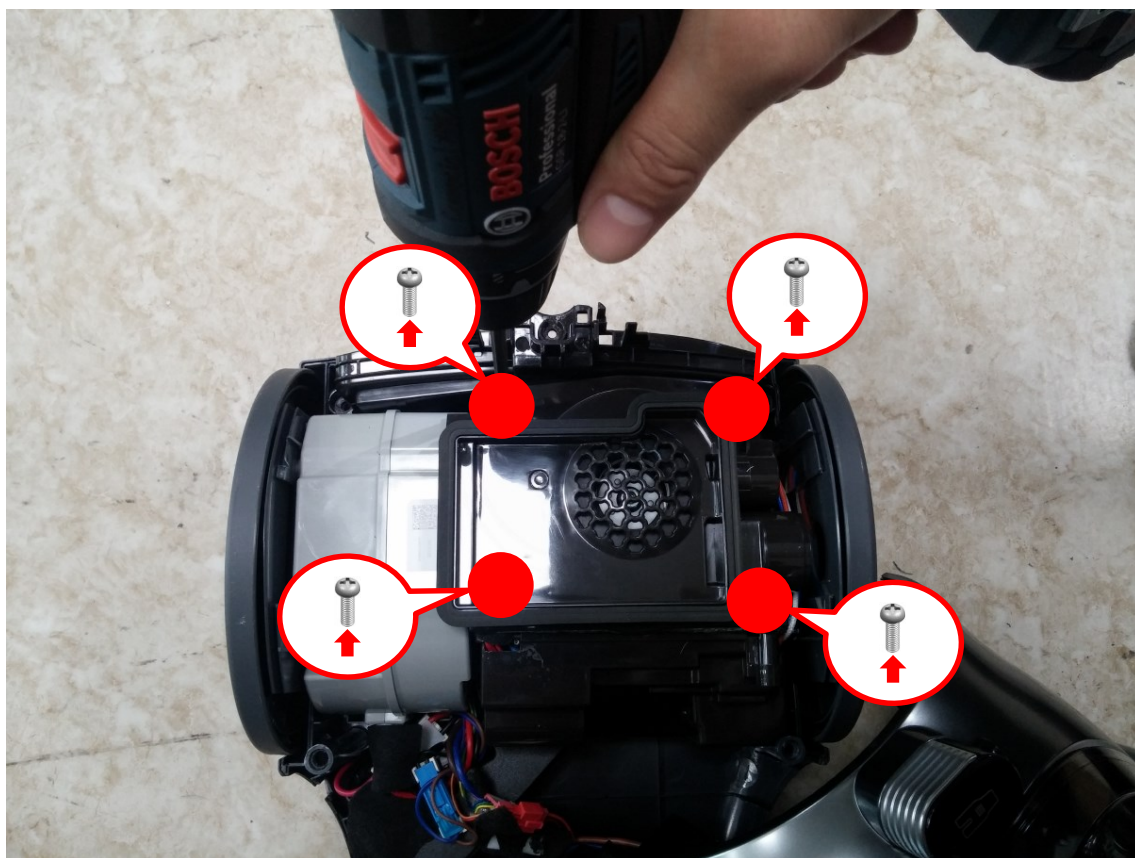




# 1. VK7407

## ■ Disassemble process

4



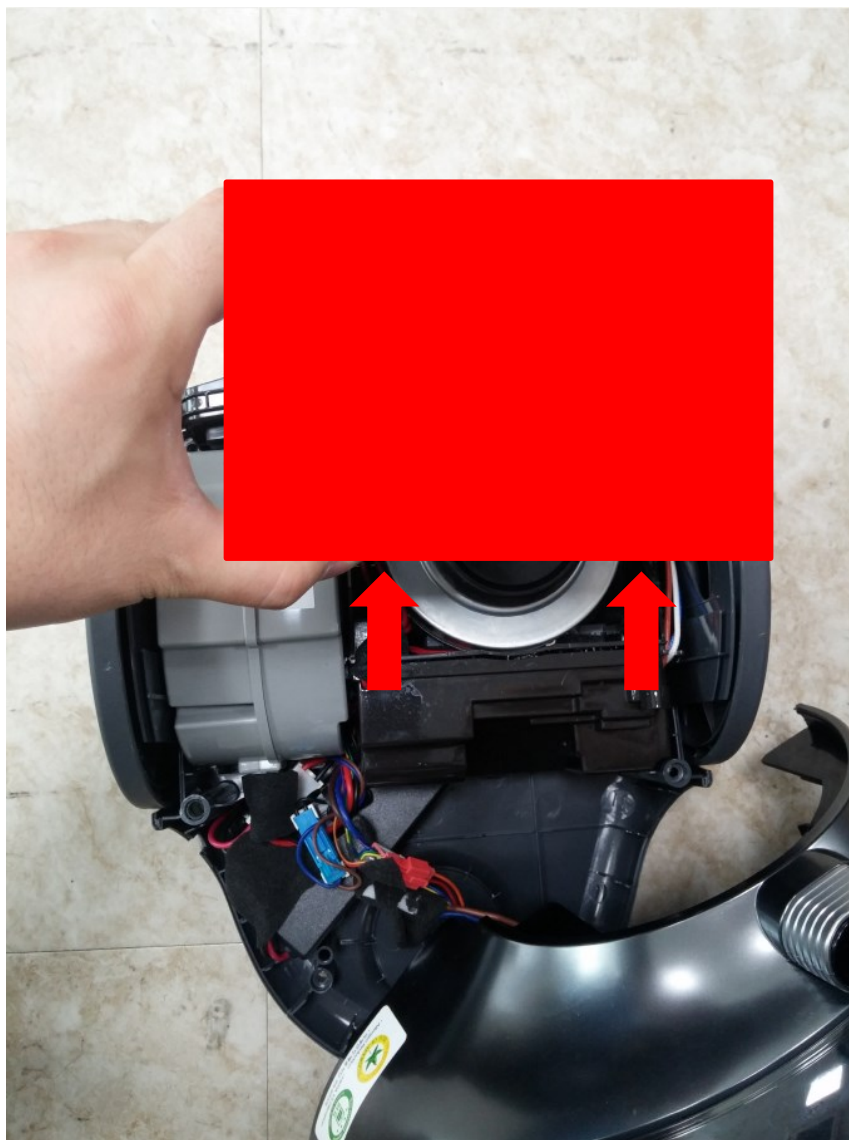


# 1. VK7407

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## ■ Disassemble process

5



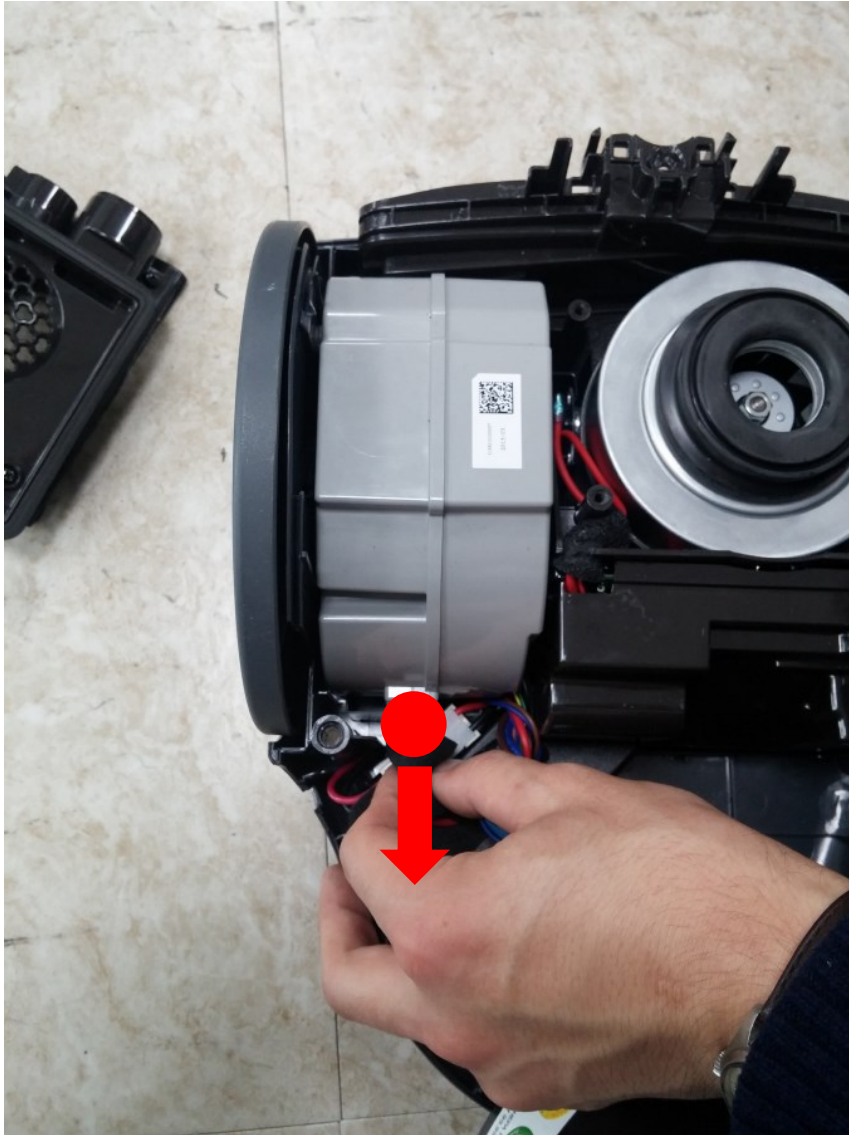


# 1. VK7407

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## ■ Disassemble process

6



# 1. VK7407

---











## ■ Disassemble process

7



## 2. KK8407, VK9407

### ■ General Information

Standard tools required	Screw driver	○				
	Plier	X				
	Nipper	X				
	Hammer	X				
	Others	X				
Non-standard tools required	(Name)	(Description)				
Types of screws used						Other
						(Description)
Number of screws to be removed	-	10	-	-	-	-
Type of battery cell embedded	Battery 1	Li-Ion Battery Pack				
	Battery 2	-				
	Battery 3	-				
Special instructions / cautions						Other
	Electrical danger	Flammable	Corrosive	Dangerous batteries	Hand pinching	-
	○	X	X	X	○	-
	Please turn off before the disassembly.	-	-	-	Please watch out hand pinching when you disassemble the covers and base.	-

# 2. KK8407, VK9407

## ■ Disassemble process

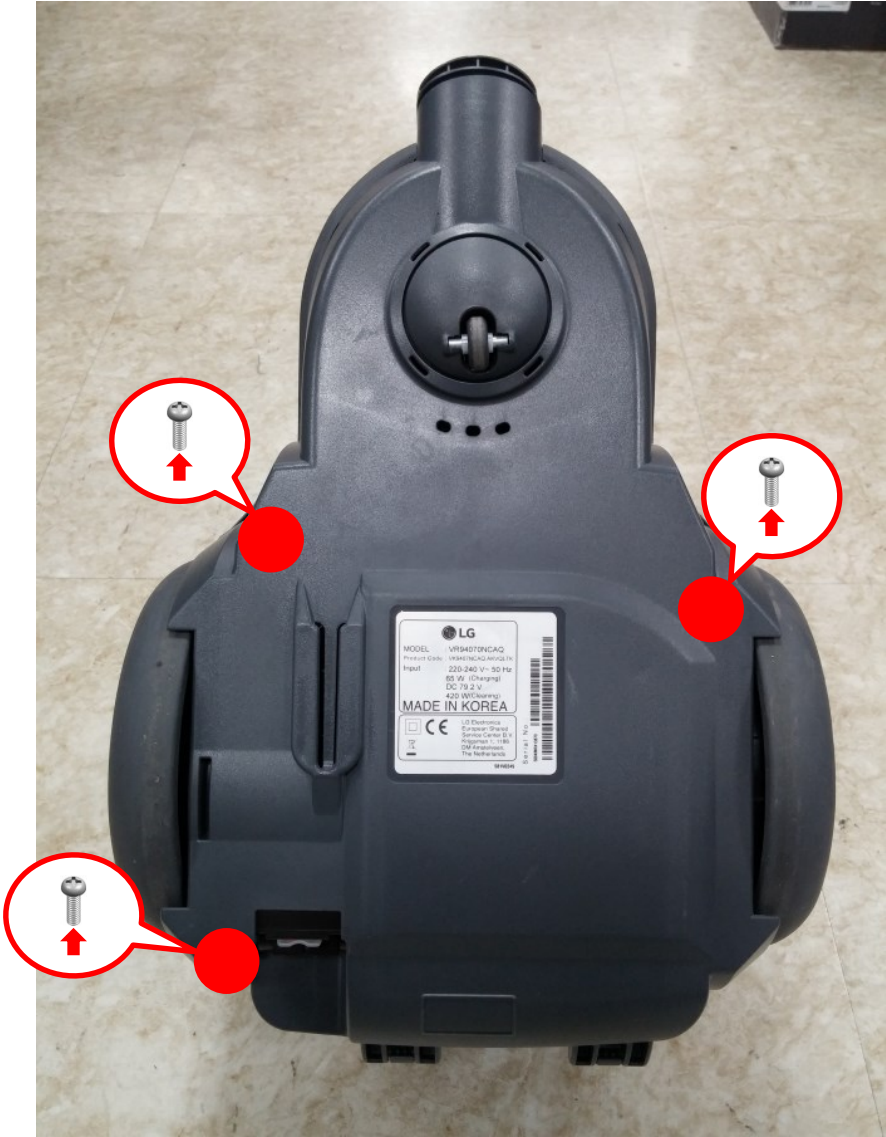
1



# 2. KK8407, VK9407

## ■ Disassemble process

2





# 2. KK8407, VK9407

## ■ Disassemble process

3



# 2. KK8407, VK9407

## ■ Disassemble process

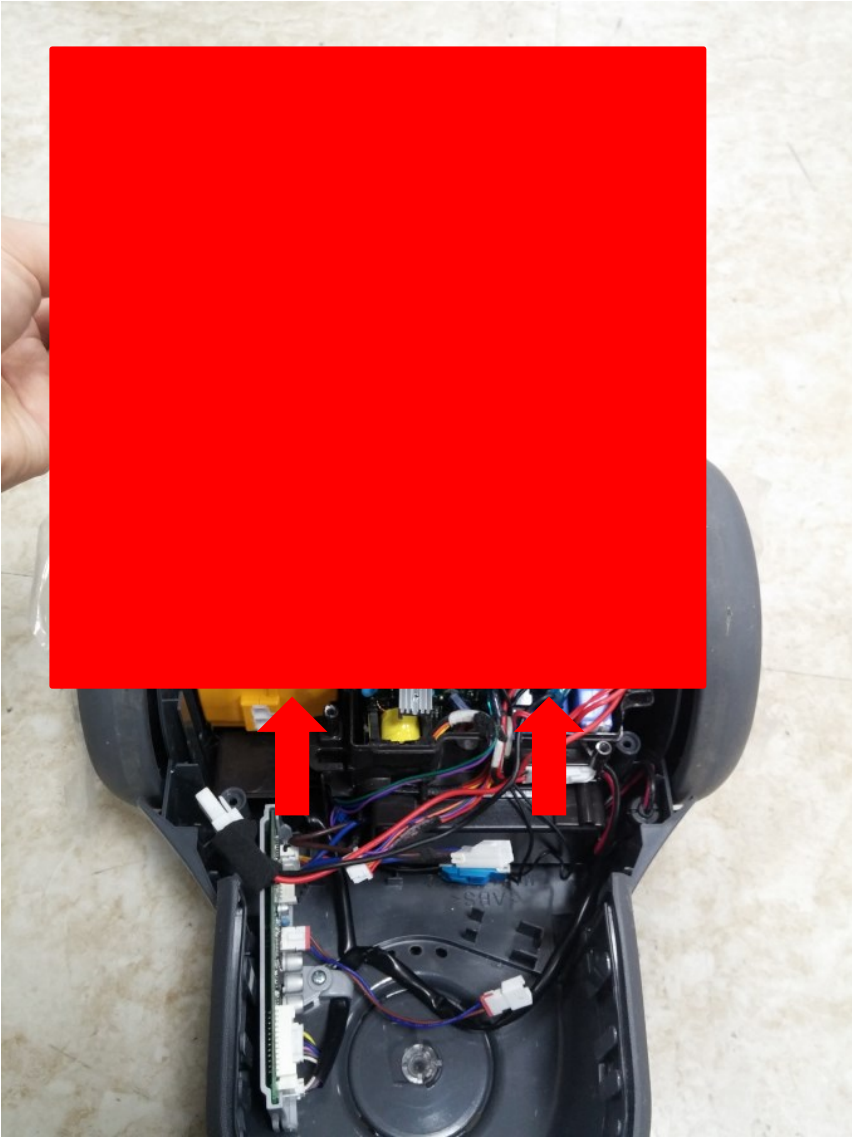
4



# 2. KK8407, VK9407

## ■ Disassemble process

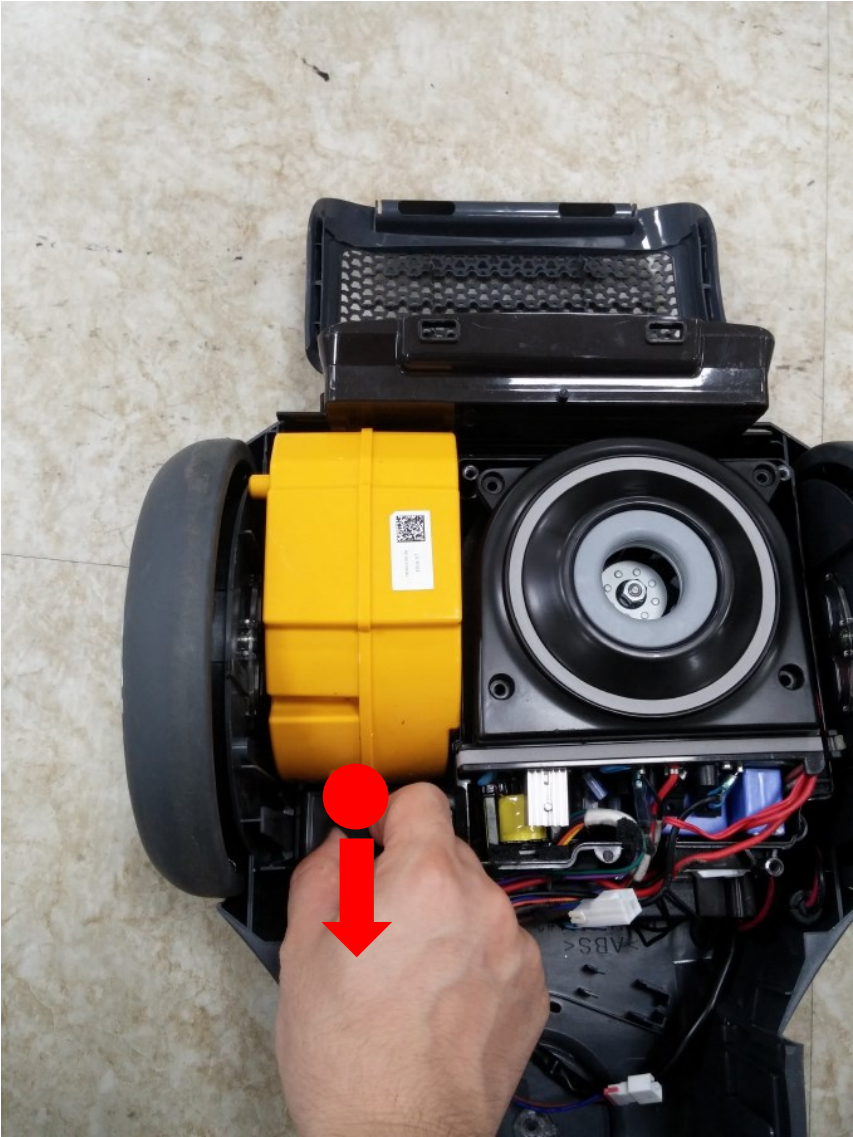
5



# 2. KK8407, VK9407

## ■ Disassemble process

6

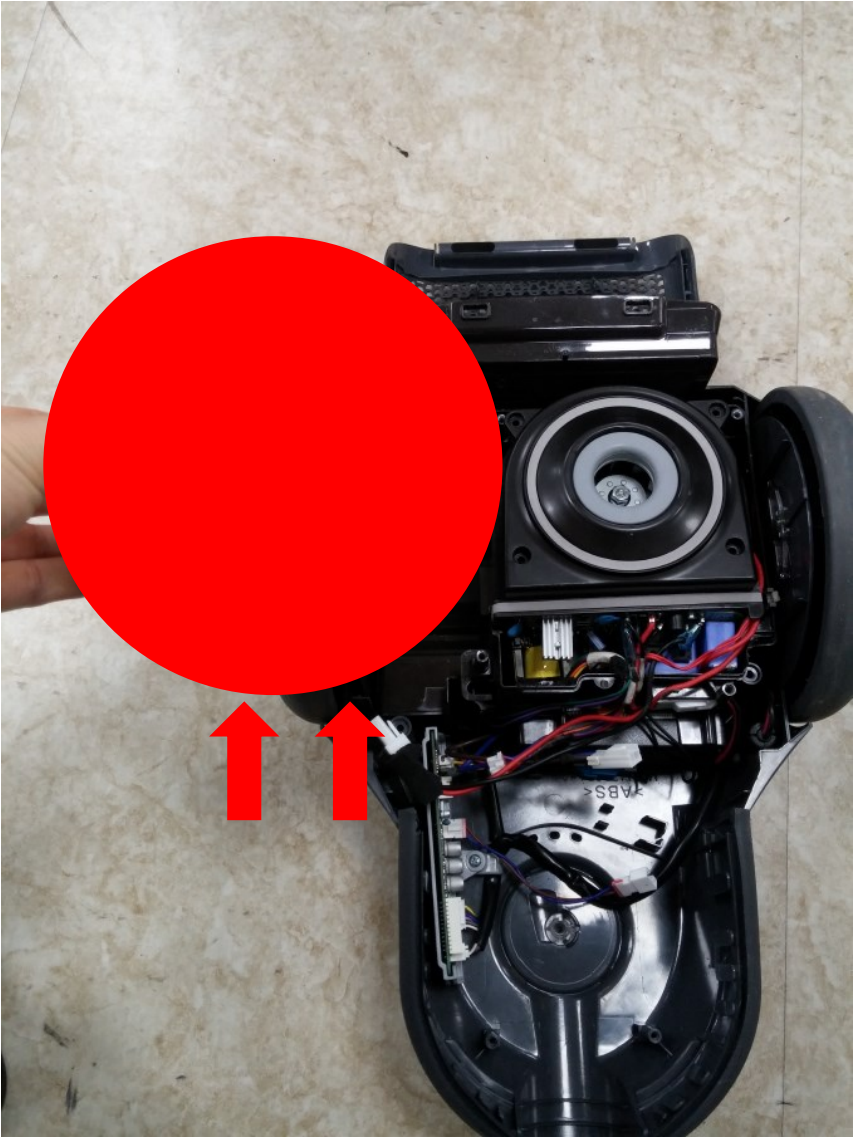




# 2. KK8407, VK9407

## ■ Disassemble process











7





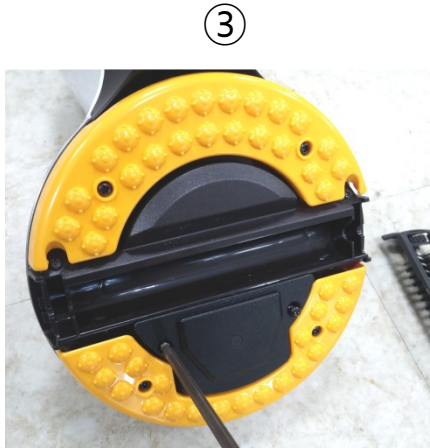
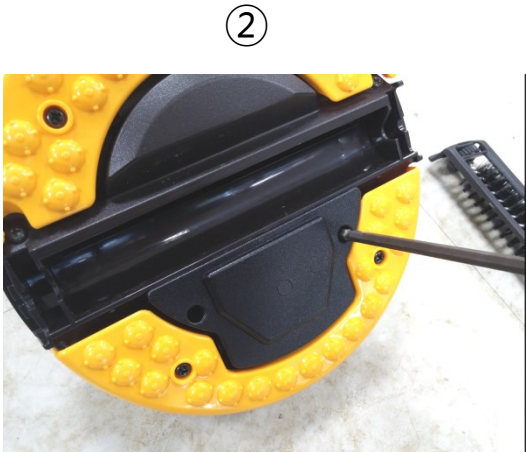
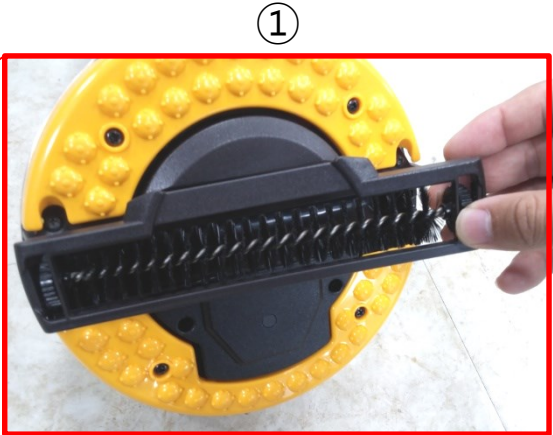
### 3. VH92\*\*DSW

#### ■ General Information

Standard tools required	Screw driver	○				
	Plier	X				
	Nipper	X				
	Hammer	X				
	Others	X				
Non-standard tools required	(Name)					
Types of screws used						Other
						(Description)
Number of screws to be removed	(#)	(2)	(#)	(#)	(#)	(#)
Type of battery cell embedded	Battery 1	Li-ion battery				
	Battery 2					
	Battery 3					
Special instructions / cautions						Other
	Electrical danger	Flammable	Corrosive	Dangerous batteries	Hand pinching	(Description)
	X	X	X	X	X	X
	-	-	-	-	-	-

# 3. VH92\*\*DSW

## ■ Disassemble process



# VII. ETC.

# 1. BP302

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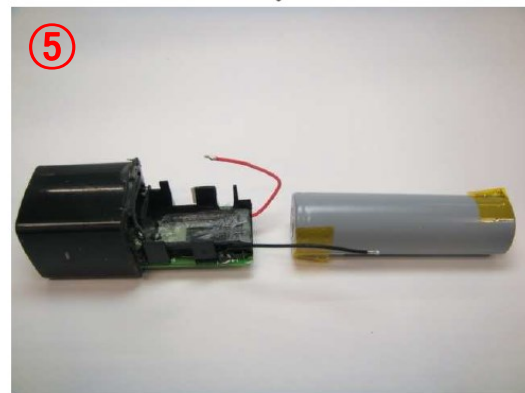
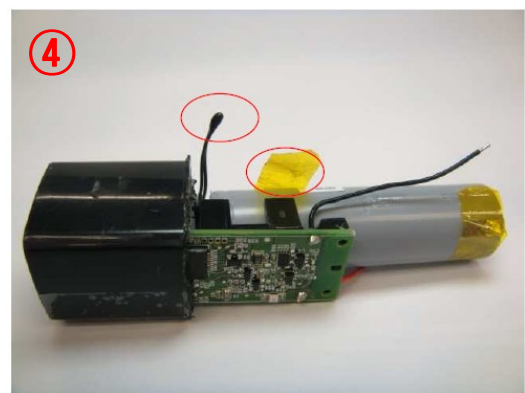
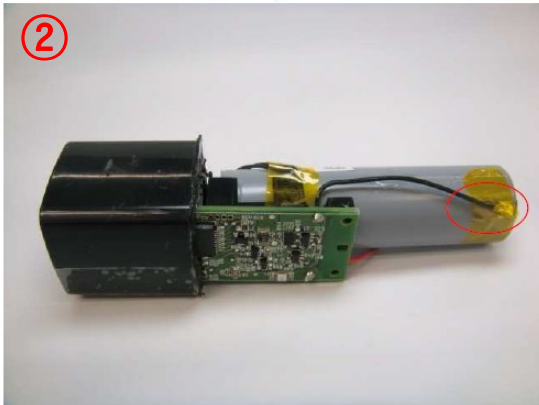
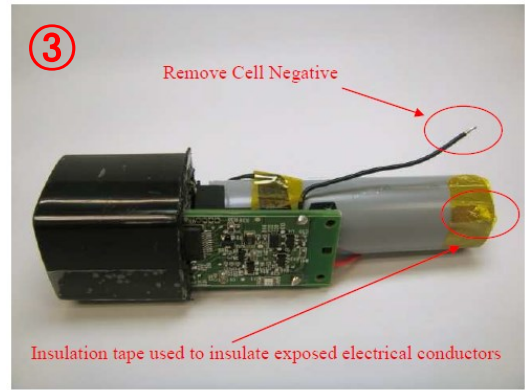
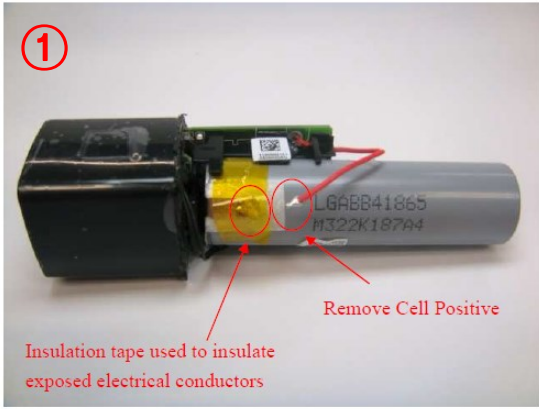
## ① Break outer casing

※ **Caution !! After breaking outer casing, it cannot be reassembled !!**



# 1. BP302

## ② Remove Cell





## 2. BP405

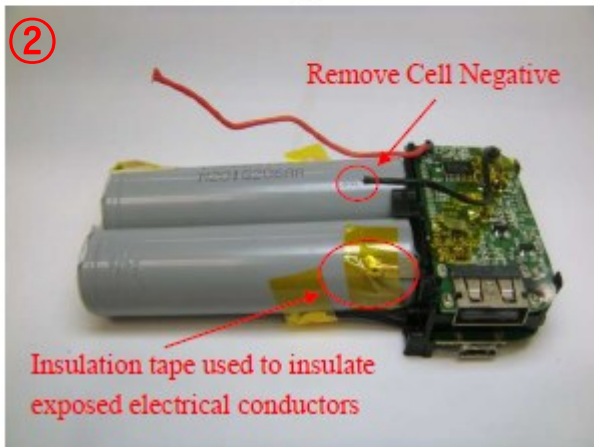
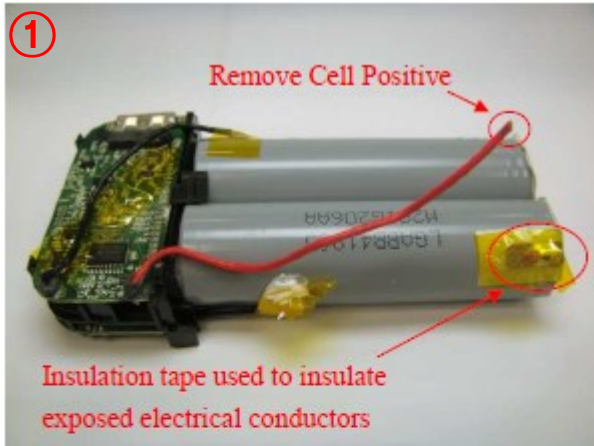
### ① Break outer casing

※ Caution !! After breaking outer casing, it cannot be reassembled !!



## 2. BP405

### ② Remove Cell



### 3. BP410

① Break outer casing

※ Caution !! After breaking outer casing, it cannot be reassembled !!



### 3. BP410

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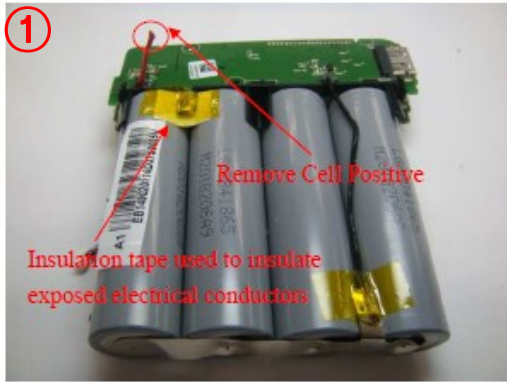
① Break outer casing

※ Caution !! After breaking outer casing, it cannot be reassembled !!



# 3. BP410

## ② Remove Cell





## 4. HBS-500



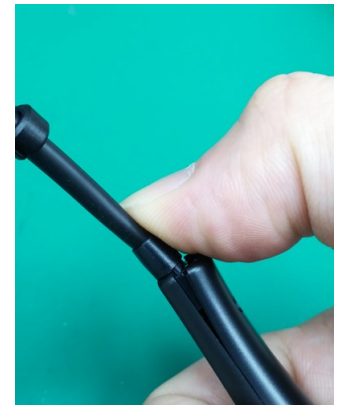
Remove  
screw cap.



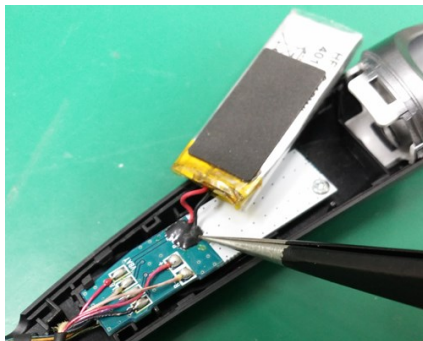
Remove  
screw.



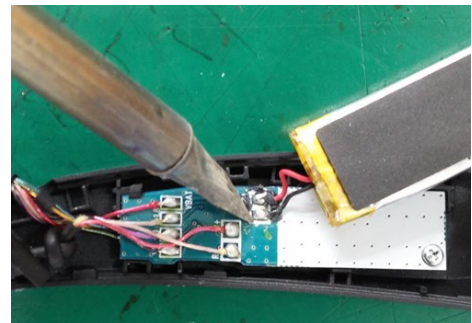
Insert the tool to the edge,  
and then disassemble  
from left to right.



Push edge  
(Jabara)



Remove bonding.



Remove  
battery wire.

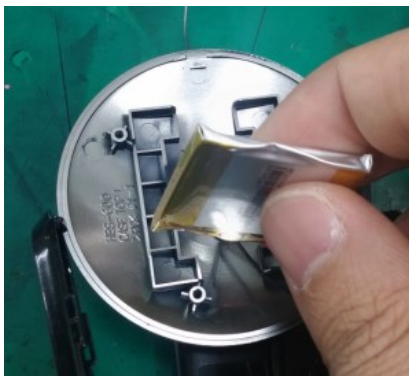
## 5. HBS-600



Remove screws  
at 3 points.



Insert the tool to the edge,  
and then disassemble  
from right to left.



Detact battery.



Remove battery  
wire.

## 6. HBS-730



Remove  
screw cap.



Remove  
screw.



Remove battery  
wire.

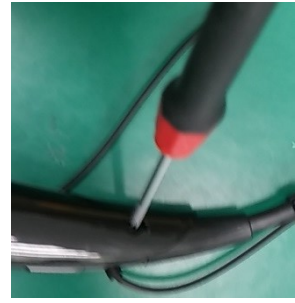


Insert the tool to the edge, and then  
disassemble from left to right.

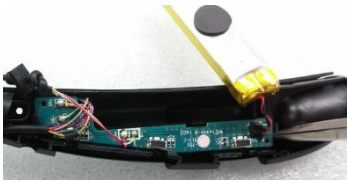
# 7. HBS-750



Remove screw cap.



Remove screw.



Detach PCBA.



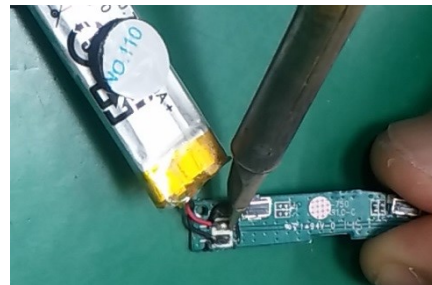
Detach battery from case.



Insert the tool to the edge, and then disassemble from left to right.



Remove bonding.



Remove battery wire.



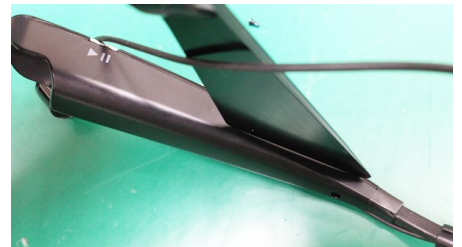
## 8. HBS-760



Remove  
screw cap.



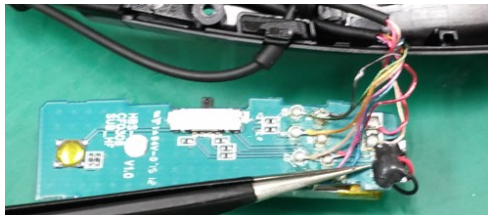
Remove  
screw.



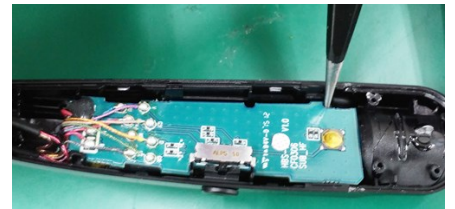
Insert the tool to the edge,  
and then disassemble  
from right to left.



Remove  
battery wire.



Remove bonding.



Detach  
PCBA.



# 9. HBS-800



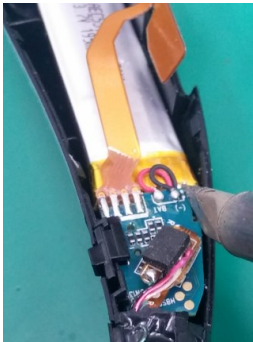
Remove screw cap.



Remove screw.



Insert the tool to the edge, and then disassemble right to left.



Remove battery wire.



Insert the tool to the edge, and then disassemble right to left.



Detach FPCBA.

# 10. HBS-900



\* HBS-900 has 2 batteryys at each parts (left / right).



Remove screw cap.



Remove screw.



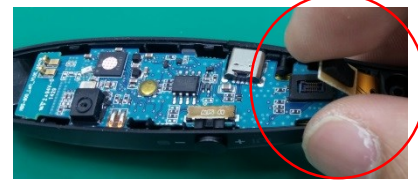
Insert the tool to the edge, and then disassemble from right to left..



Remove battery wire.



Detach PCBA.



Detach connector.

# 10. HBS-900



\* HBS-900 has 2 battery at each parts (left / right).



Remove screw cap.



Remove screw.



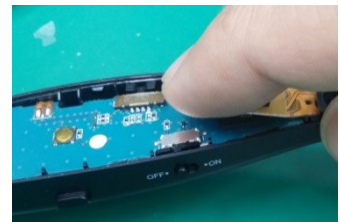
Insert the tool to the edge, and then disassemble from right to left..



Remove battery wire.

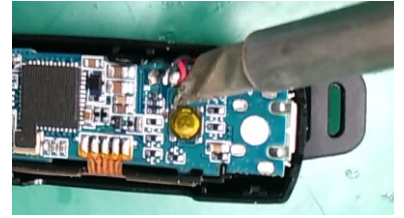


Detach PCBA.



Detach connector.

# 11. HBM-290



Insert the tool to the edge, and then disassemble from left to right.

Remove mic wire.

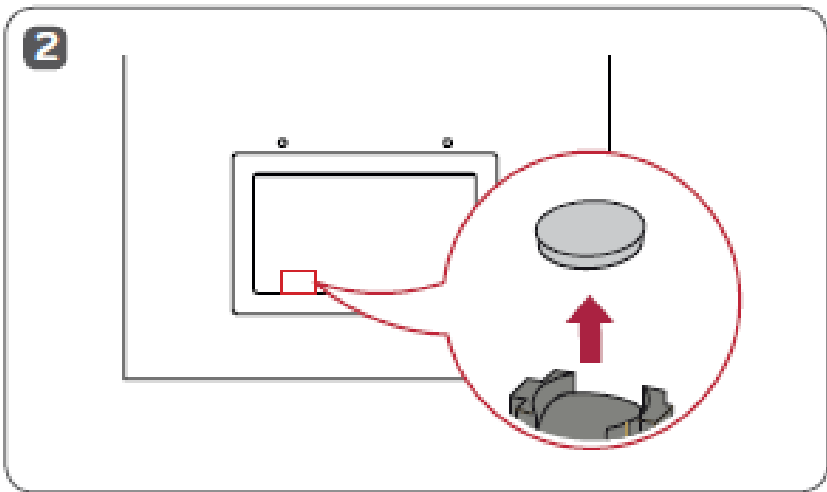
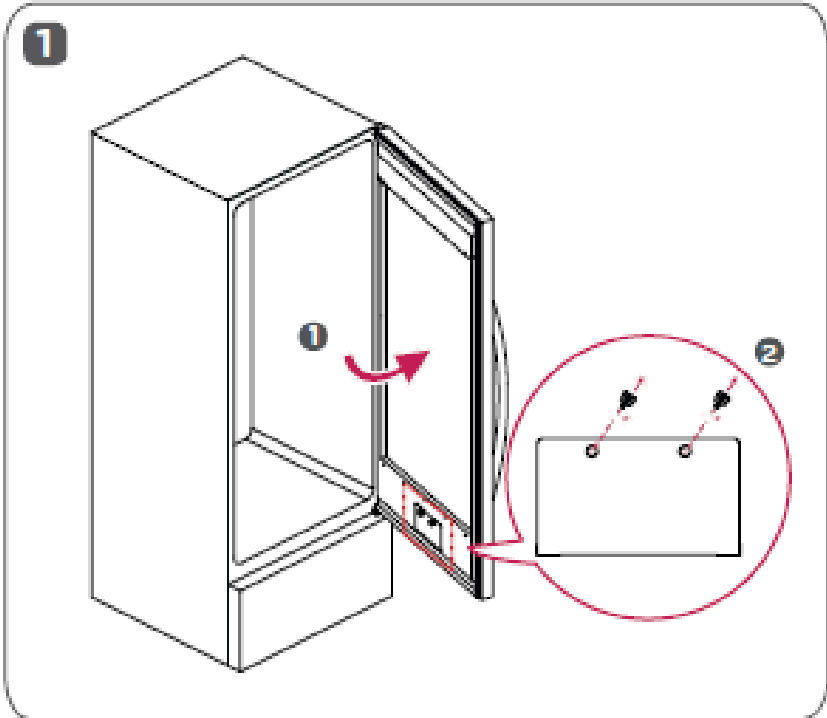


Remove battery wire.



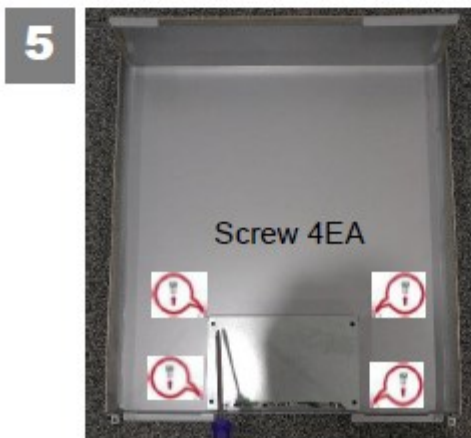
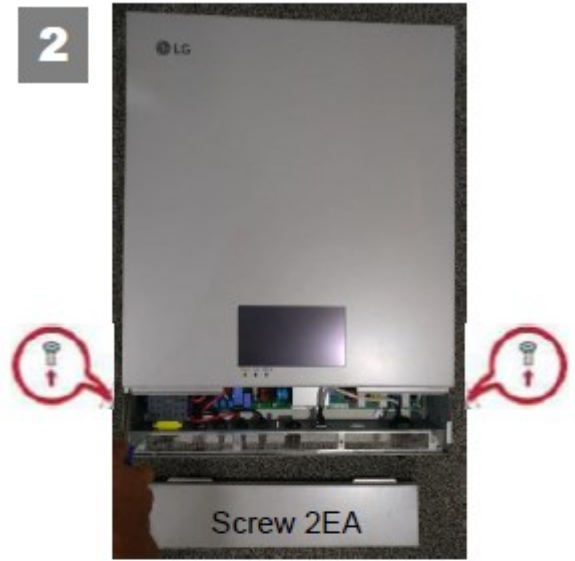
Insert the tool and detach PCBA.

# 12. Transparent Cooler





# 13. ESS PCS



# 13. ESS PCS

7



Remove RTC Battery  
by Soldering Iron  
or Heat gun

8



# 14. HBS-1100



\* HBS-1100 has 2 batteries at each parts (left / right).



Remove screw cap(3point).



Remove screw(3point).



Insert the tool to the edge, and then disassemble from right to left .



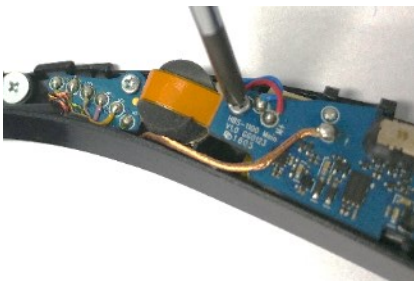
Insert the tool to the edge, and then disassemble from left to right .



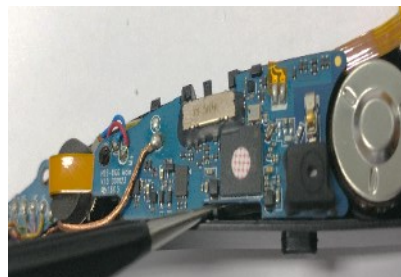
Remove screw.(5point)



Insert the tool to the edge, and then disassemble from left to right .



Remove screw(2point).



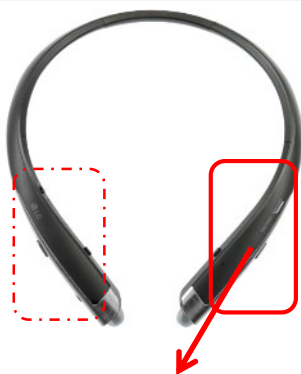
Detach PCBA.



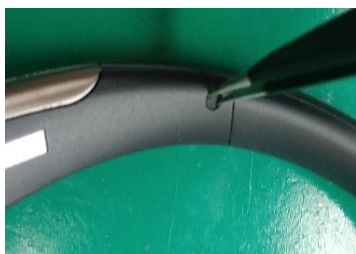
Remove battery wire.



# 14. HBS-1100



\* HBS-1100 has 2 batteries at each parts (left / right).



Remove screwcap(3point).



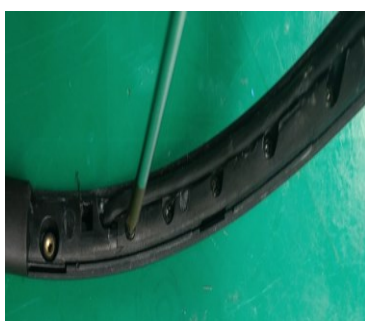
Remove screw (3point).



Insert the tool to the edge, and then disassemble from right to left .



Insert the tool to the edge, and then disassemble from left to right .



Remove screw (5point).



Insert the tool to the edge, and then disassemble from left to right .



Remove screw (2point).

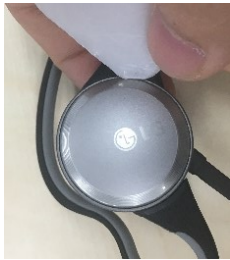


Detach PCBA.

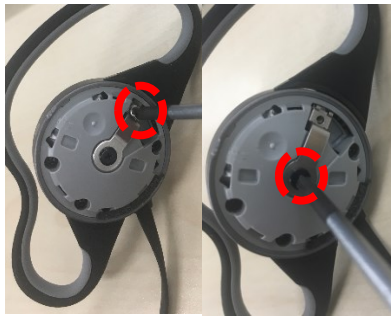


Remove battery wire.

# 15. HBS-S80



Using a tool, detach Upper case.



Remove screw .



Detach Tilt Bracket.



Detach PCBA.



Detach Inner Bracket.



Remove screw .



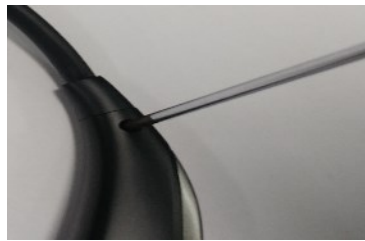
Remove battery wire.



# 16. HBS-820S



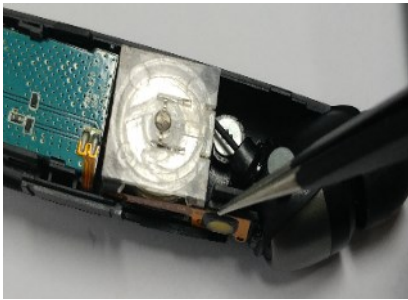
Remove screw cap.



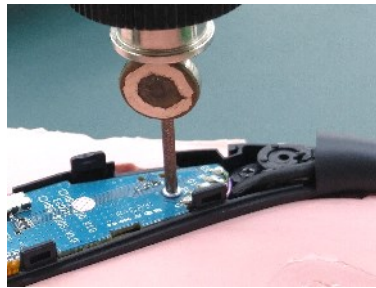
Remove screw.



Insert the tool to the edge, and then disassemble from right to left.



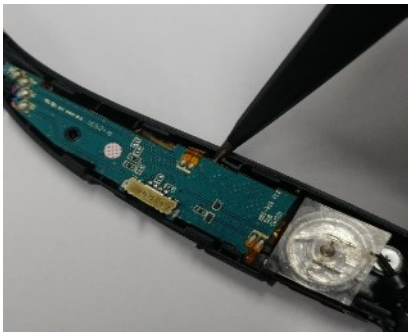
Detach FPCB.



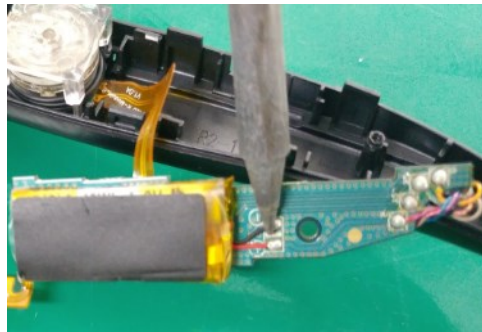
Remove screw.



Insert the tool to the edge, and then disassemble from right to left.



Detach PCBA.

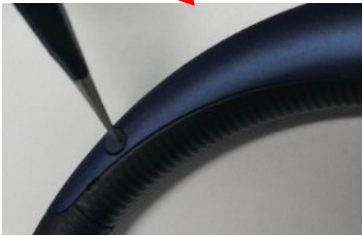


Remove battery wire.

# 17. HBS-A100



\* HBS-A100 has 2 batteries at each parts (left / right).



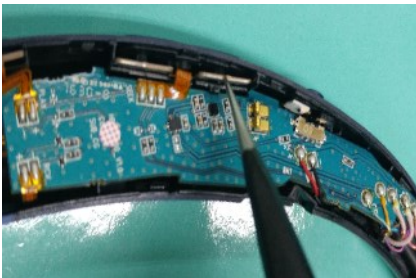
Remove screw cap (2point).



Remove screw (2point).



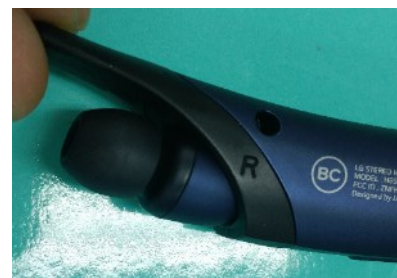
Insert the tool to the edge, and then disassemble from right to left.



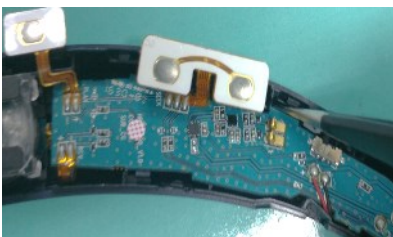
Detach FPCB.



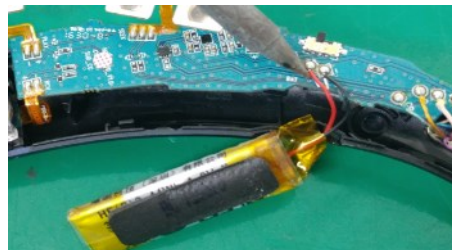
Insert the tool to the edge, and then disassemble from right to left.



Remove Wing Tip



Detach PCBA.

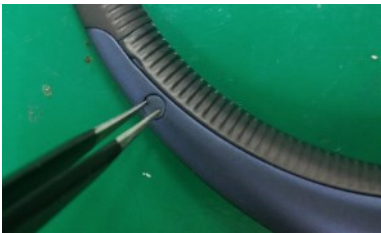


Remove battery wire.

# 17. HBS-A100



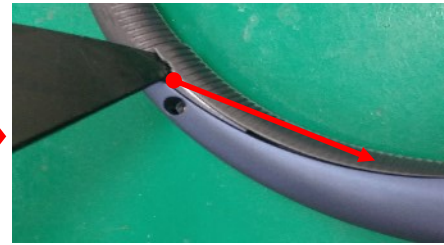
\* HBS-A100 has 2 batteries at each parts (left / right).



Remove screw cap (2point).



Remove screw (2point).



Insert the tool to the edge, and then disassemble from right to left.



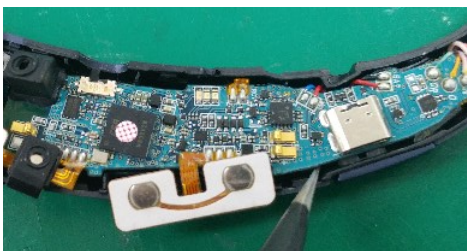
Detach FPCB.



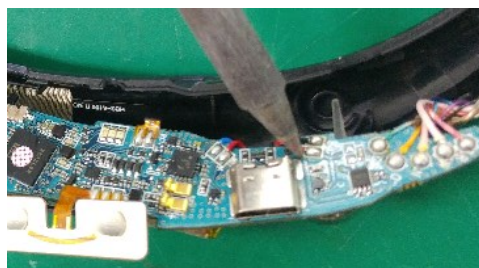
Insert the tool to the edge, and then disassemble from right to left.



Remove Wing Tip



Detach PCBA.



Remove battery wire.

# 18. HBS-A80



HBS-A80 has 2 batteries at each parts left / right).



Remove screw cap (2point).



Remove screw (2point).



Disassemble from right to left



Remove Wing Tip



Detach PCB and Battery



Insert the tool to the edge, and then disassemble from right to left.



# 18. HBS-A80



HBS-A80 has 2 battery compartments at each part (left / right).



Remove screw cap (2point).



Remove screw (2point).



Disassemble from right to left



Detach PCB and Battery



Insert the tool to the edge, and then disassemble from right to left.



Remove Wing Tip



# 19. HBS-910



Remove screw cap.



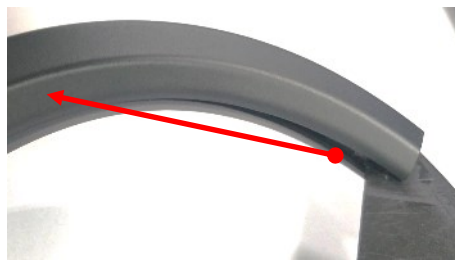
Remove screw.



Remove Deco



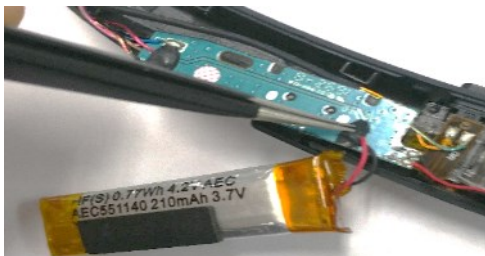
Detach PCBA.



Insert the tool to the edge, and then disassemble from right to left.



Remove screw.



Remove bonding.



Remove battery wire.

# 20. HBS-770



Remove screw cap.



Remove screw.



Insert the tool to the edge, and then disassemble from right to left.



Detach FPCB



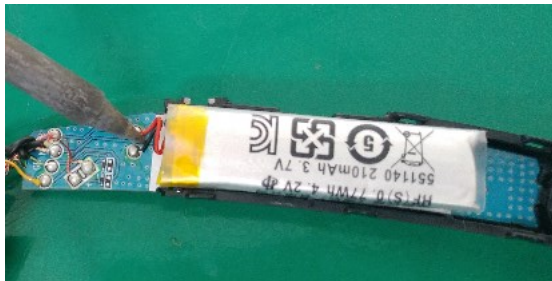
Detach deco (left/right)  
(6point)



Detach case



Detach case (left/right)  
(6point)



Remove battery wire.

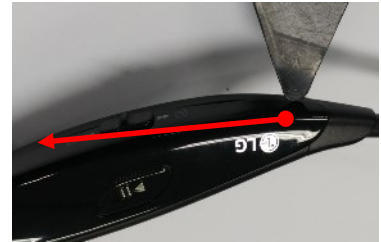
# 21. HBS-810



Remove screw cap.



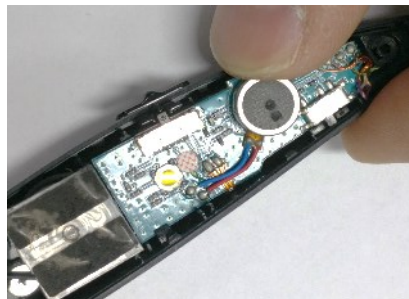
Remove screw.



Insert the tool to the edge, and then disassemble from right to left.



Remove battery wire.



Detach PCBA.



Remove screw.

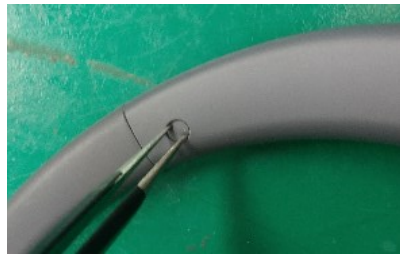
## 22. HBS850



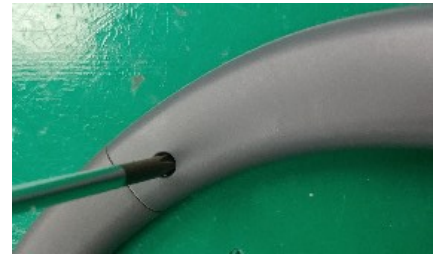
\* HBS-850 has 2 batteries at each parts (left / right).



Remove wing tip



Remove screw cap



Remove screw(2point)



Detach PCBA.



Remove FPCB



Insert the tool to the edge, and then disassemble from right to left.



Remove battery wire.



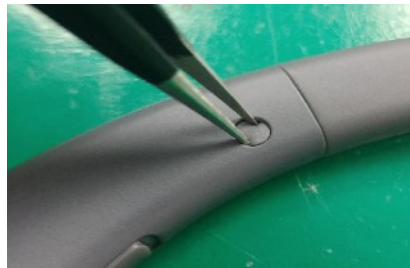
# 22. HBS850



\* HBS-850 has 2 batteries at each parts (left / right).



Remove wing tip



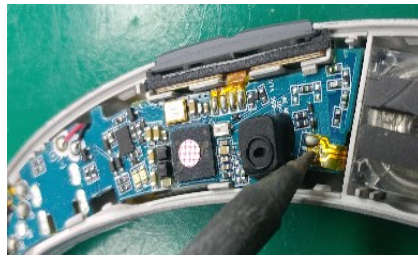
Remove screw cap



Remove screw(2point)



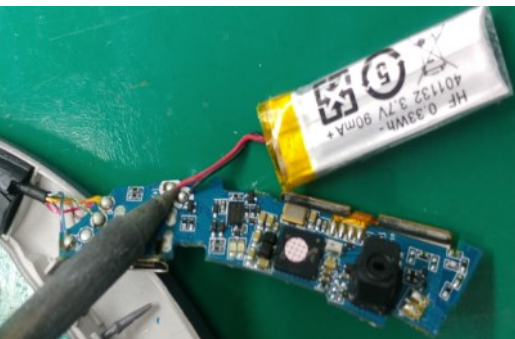
Detach PCBA.



Remove FPCB



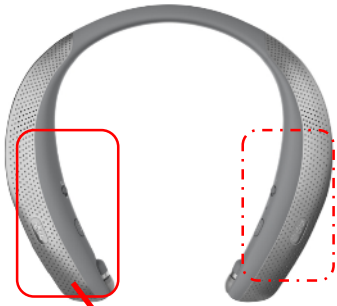
Insert the tool to the edge, and then disassemble from right to left.



Remove battery wire.



# 23. HBS-W120



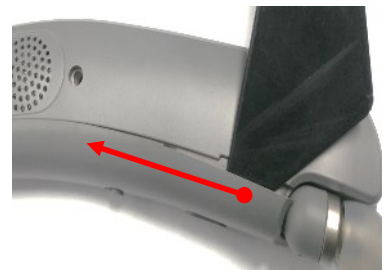
\* HBS-W120 has 2 batteries at each parts (left / right).



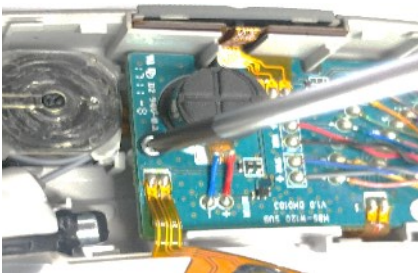
Remove screw cap. (3point)



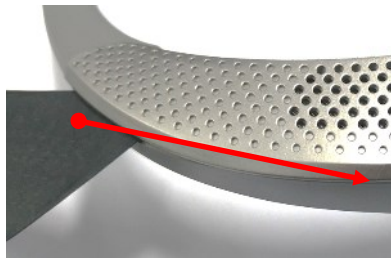
Remove screw. (3point)



Insert the tool to the edge, and then disassemble from right to left.



Remove screw.



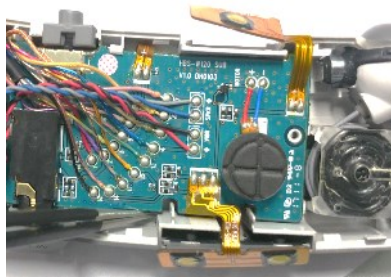
Insert the tool to the edge, and then disassemble from right to left.



Remove screw.



Detach FPCB



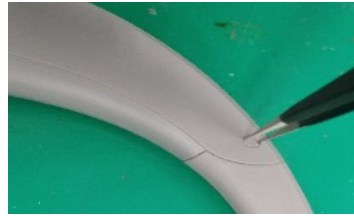
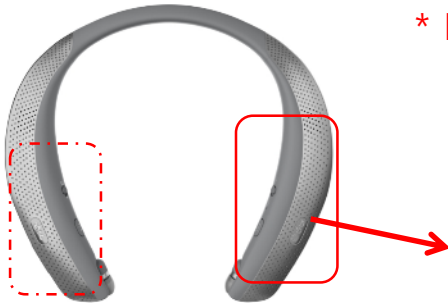
Detach PCBA.



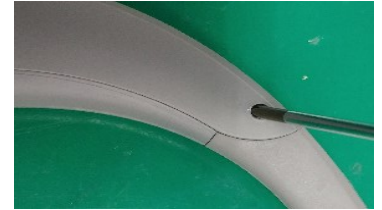
Remove battery wire.

# 23. HBS-W120

\* HBS-W120 has 2 batteries at each parts (left / right).



Remove screw cap. (3point)



Remove screw.(3point)



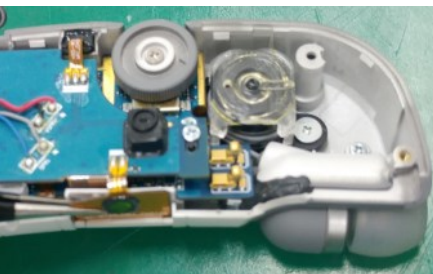
Insert the tool to the edge, and then disassemble from right to left.



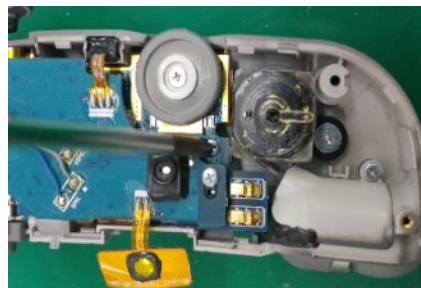
Remove screw.



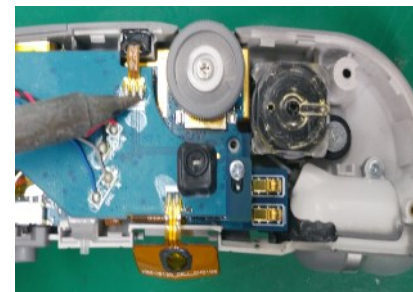
Insert the tool to the edge, and then disassemble from right to left.



Detach FPCB



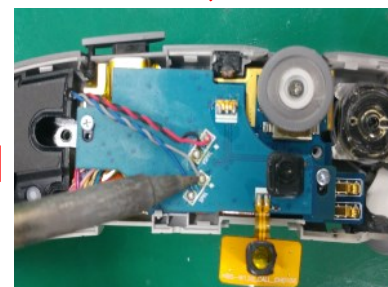
Remove screw.



Remove Mic FPCB

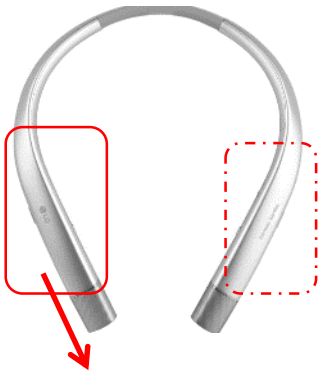


Remove battery wire.

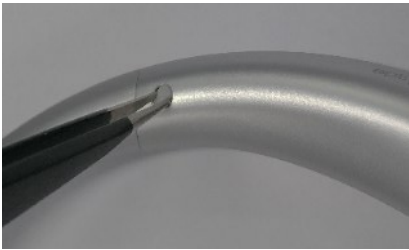


Remove Speaker wire.

# 24. HBS-920



\* HBS-920 has 2 battery cells at each part (left / right).



Remove screw cap (3point).



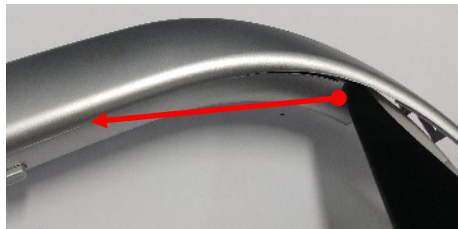
Remove screw. (3point)



Insert the tool to the edge, and then disassemble from right to left.



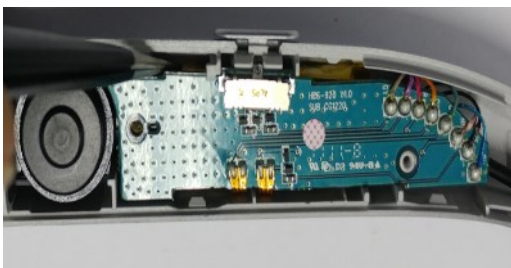
Remove screw.



Insert the tool to the edge, and then disassemble from right to left.



Remove screw. (2point)



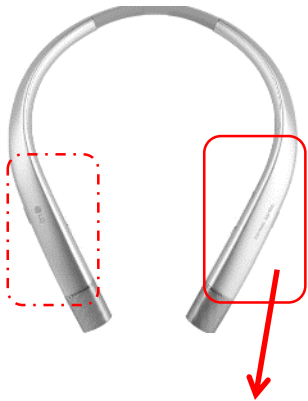
Detach PCBA.



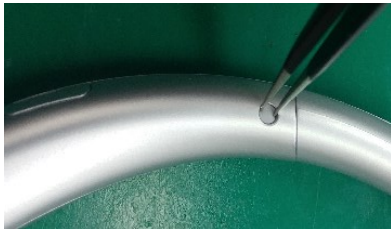
Remove battery wire.



# 24. HBS-920



\* HBS-920 has 2 battery at each parts (left / right).



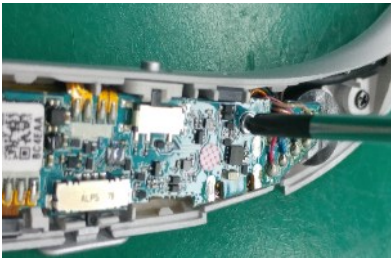
Remove screw cap (3point).



Remove screw. (3point)



Insert the tool to the edge, and then disassemble from right to left.



Remove screw.



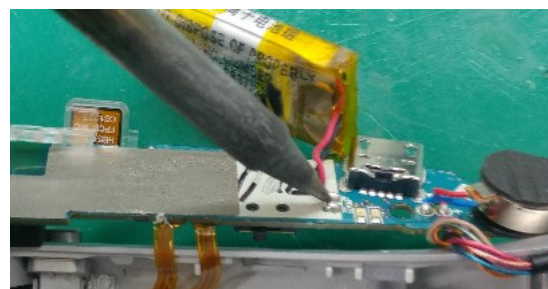
Insert the tool to the edge, and then disassemble from right to left.



Remove screw. (2point)



Detach PCBA.



Remove battery wire.

# 25. HBS-780



Remove screw cap.  
(2point)



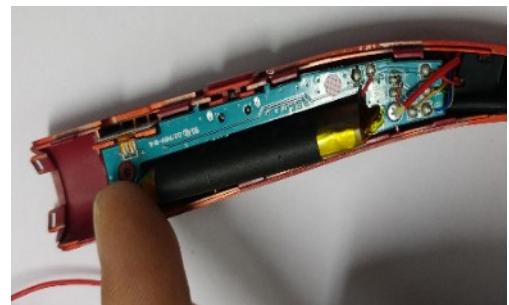
Remove screw.  
(2point)



Insert the tool to the edge,  
and then disassemble from  
right to left.



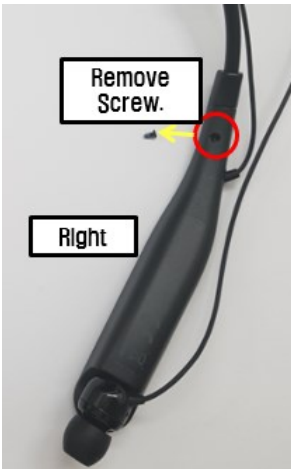
Remove battery wire.



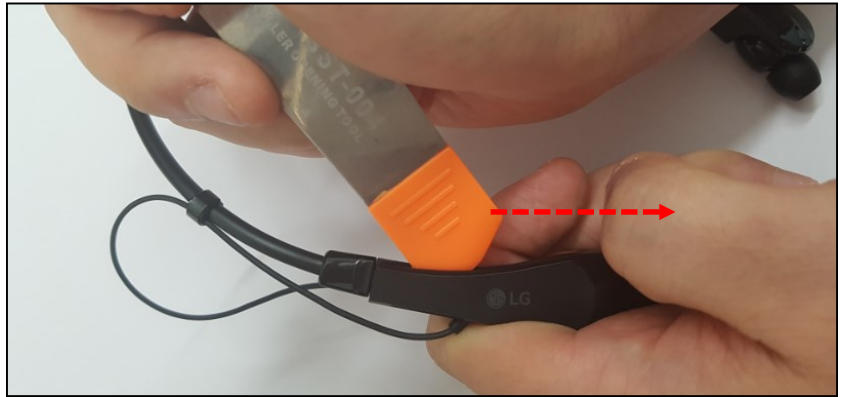
Detach battery from  
case.



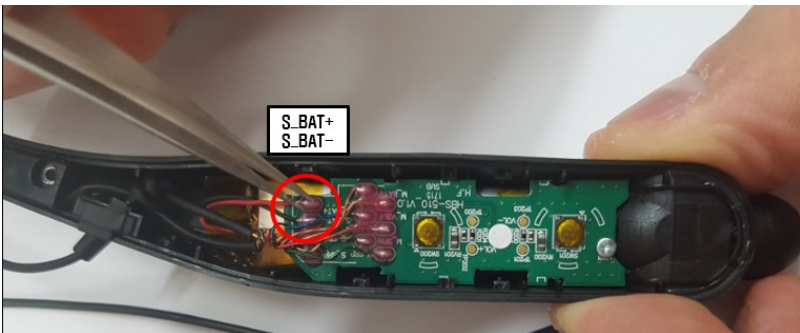
## 26. HBS-510



Remove screw.



Insert the tool to the edge, and then disassemble from left to right.

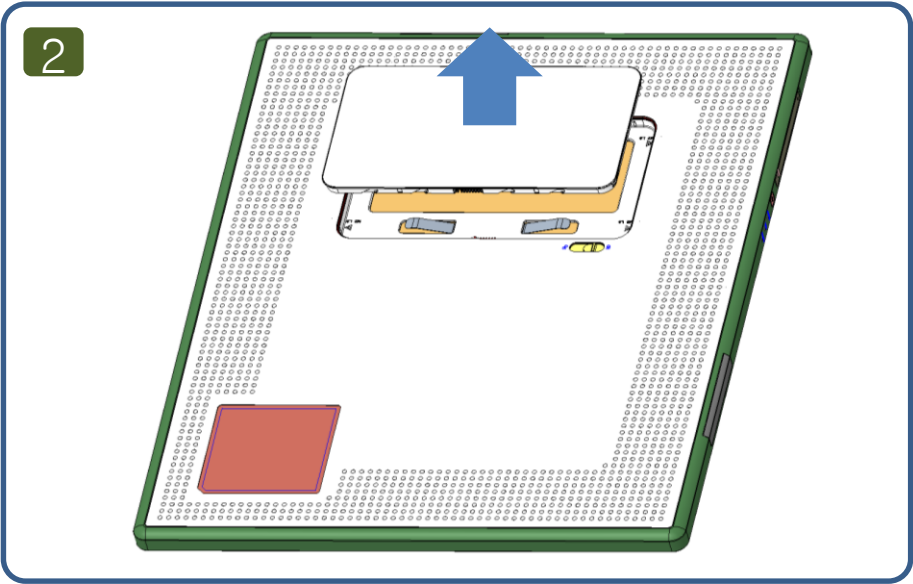
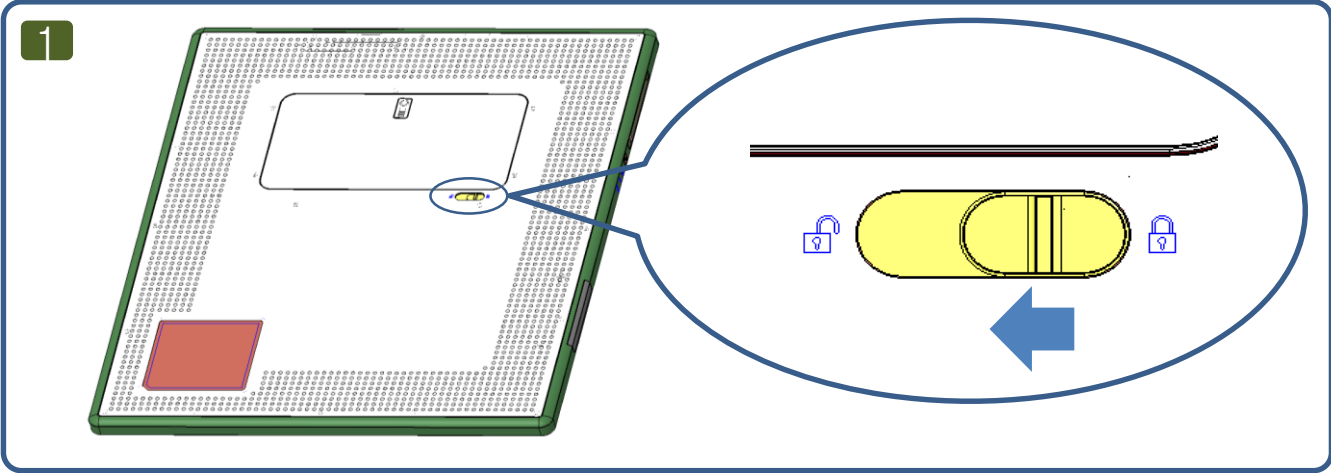


Remove UV bonding and remove battery wire.



Remove Top case R.

# 27. 14HK701G



# 28. HBS-1120, HBS-930



Remove screw cap and screw.



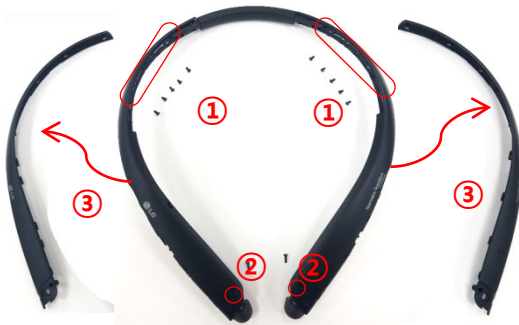
Remove band cover from top to bottom.



Remove ear holder screw.



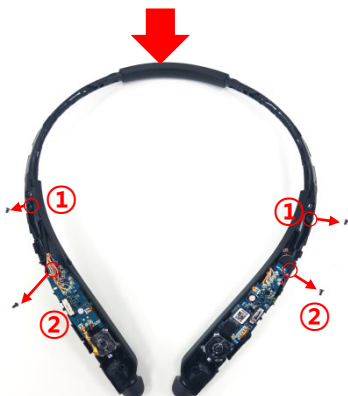
Remove deco.  
Push the screw hole using tool and separate the deco.



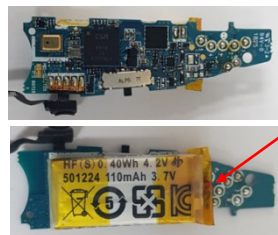
Remove screw ① and ② and disassemble the cover.



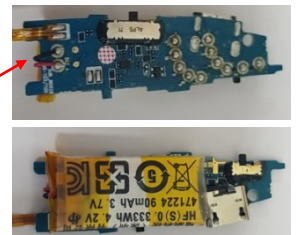
Insert the tool to the edge, and then disassemble from bottom to top.



Remove screw and detach the PCBA.



[Left]



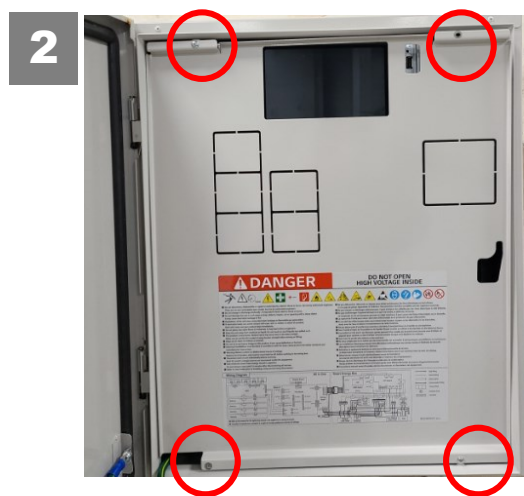
[Right] 383

Remove the battery wire.

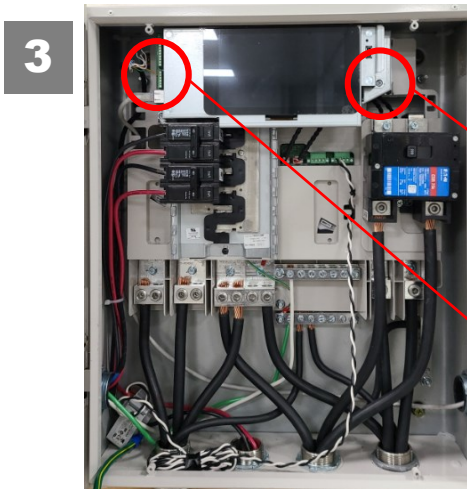
# 29. ESS SEB(REA200AP0)



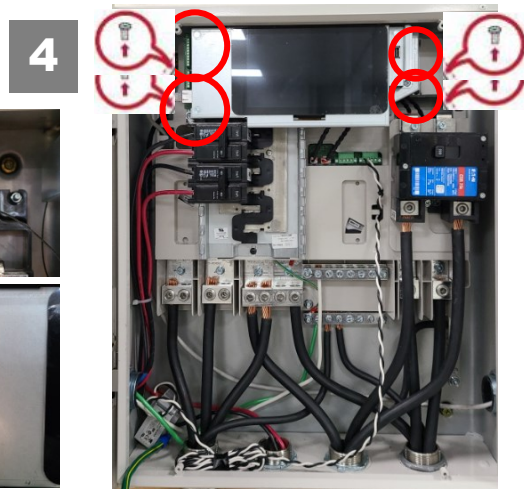
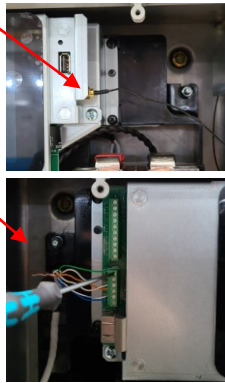
Open front cover with Hex wrench 8mm



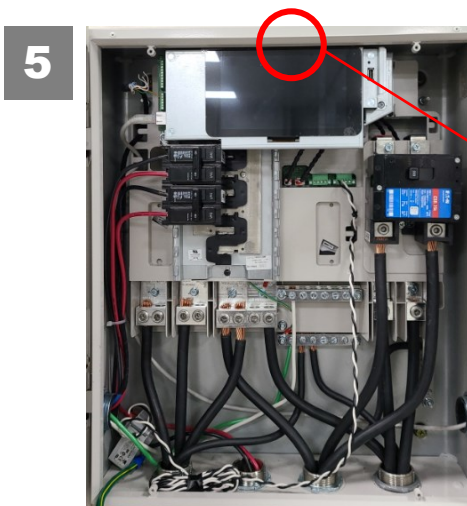
Disconnect Screw 4EA



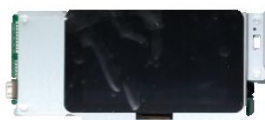
Disconnect communication & Wifi cables



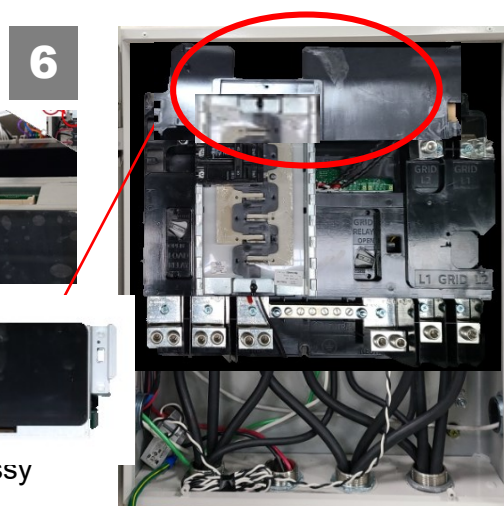
Disconnect M4 Screw 4EA



Disconnect PMS Cables



PMS Assy

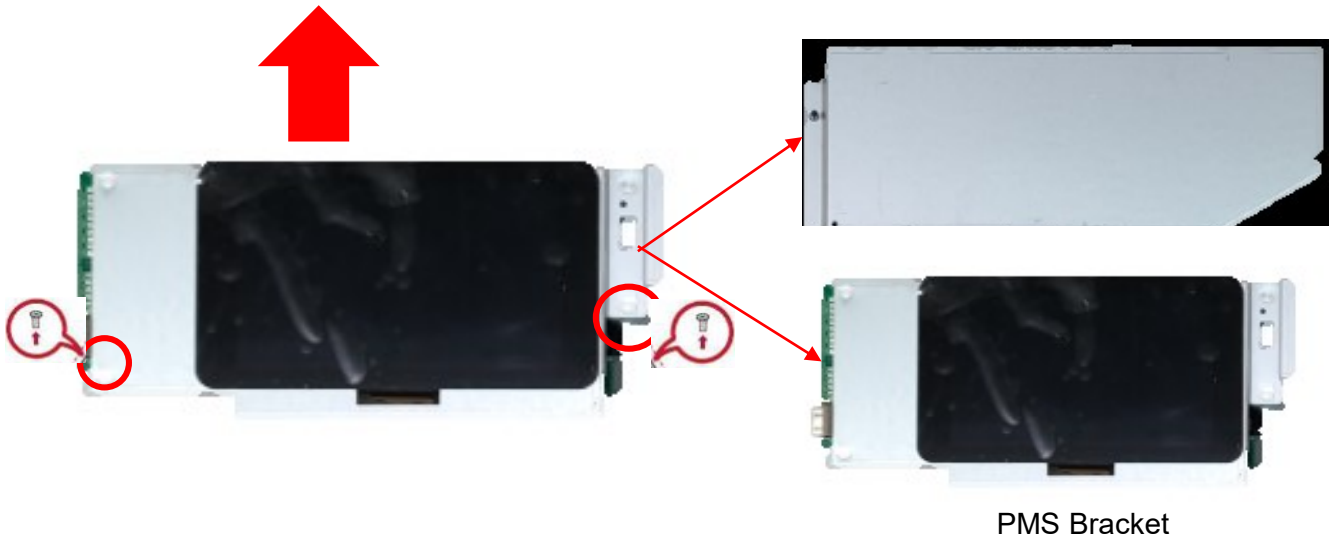


Pull Out PMS Assy'



# 29. ESS SEB(REA200AP0)

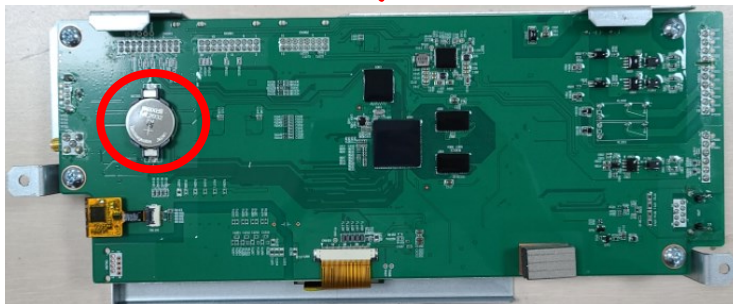
6



7



Upside Down



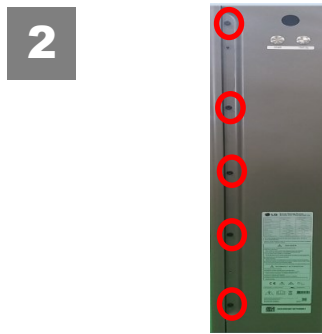
Remove RTC Battery by Soldering Iron



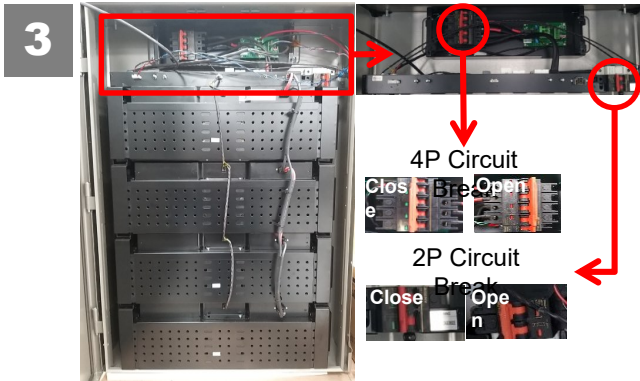
# 30. ESS (BUEL011HBC1/BUEL015HBC1)



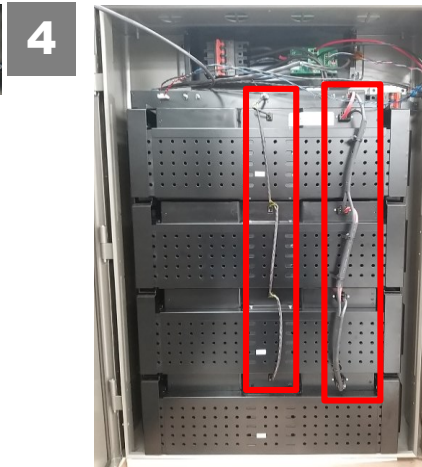
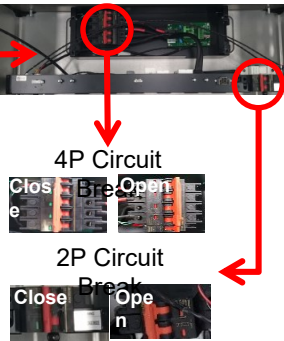
Press unit switch ① only.



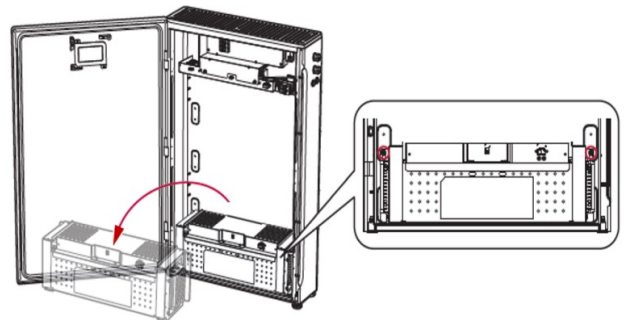
Disconnect Screw 5EA



Close Circuit Break (4P & 2P)

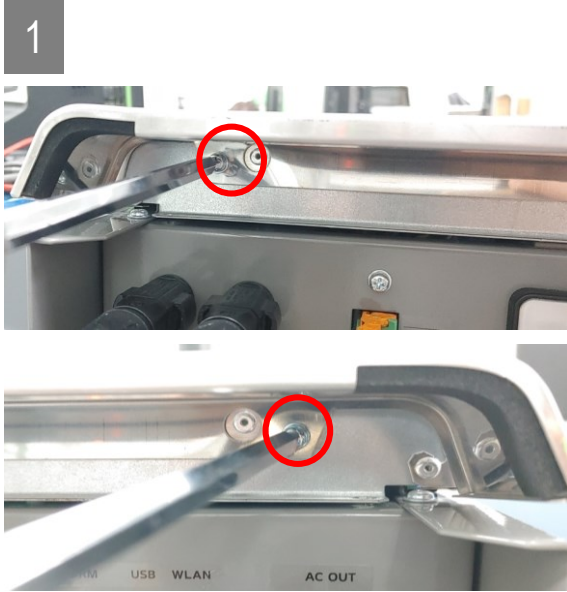


Disconnect ISO & Power Harness



Disconnect the 4<sup>th</sup>(3<sup>RD</sup>) to 1<sup>st</sup> Packs each with 4 nuts

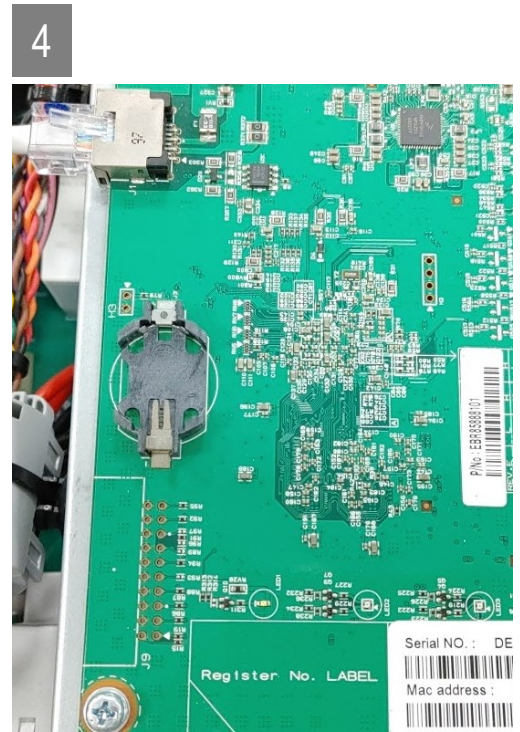
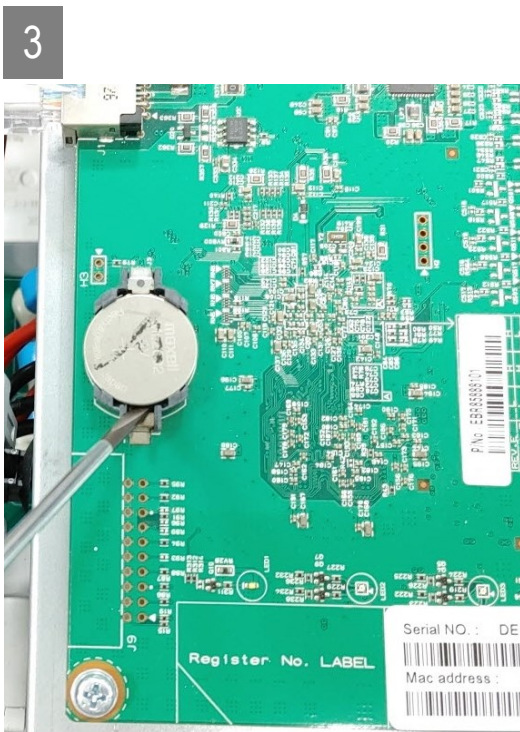
# 31. Coin Battery Removal Guide - (D008KE1N211/D010KE1N211)



Open lower cover with "+" driver



Open upper cover with "-" driver



Coin battery removal in PMS Board