Dismantling information

The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of LG products to remove components and materials requiring selective treatment.

Product Identification

Type of Product	**Notebook**
Model name	**16Z90TL**

Displays must be stored in accordance with the requirements stipulated in Appendix VII (1) or (2) of Directive 2012/19/EU and must, amongst other things, be stored in a weatherproof manner. Containers with covers must be used when storing and transporting the Displays.

Contents

1. Materials and components for Selective Treatment
2. Tools Required
3. Product Disassembly Process
4. Disassembly of External enclosure
5. Exploded Diagram of Parts

1. Materials and components for Selective Treatment

Displays may contain hazardous substances like Pb which are covered by exemptions under the RoHS directive. However, the majority is present in the PCB assembly. In order to reduce emissions as much as possible, a complete disposal of the old appliance is required. This treatment may only be performed in authorized handling plants.

Materials and components	Notes	Included	Location
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)		O	
Batteries	For Remote control	-	
	Internal batteries	O	
Mercury containing components	display backlights	-	
Liquid Crystal Displays (LCD) with a surface greater than 100 square cm	Includes background illuminated displays with gas discharge lamps	O	
Capacitors / condensers (Containing PCB / PCT)		-	
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height		-	
External electric cables cords	Power cord	-	
	Signal cable	O	
Gas Discharge Lamps		-	
Plastics containing Brominated Flame Retardants	Plastic of speaker, cable connector, fan (depend on model)	-	
Components and waste containing asbestos		-	
Components, parts and materials containing refractory ceramic fibers		-	
Components, parts and materials containing radioactive substances		-	

2. Tools Required

List the type that would typically be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

Tool Description	Tool information
Screw driver	
Nipper	
Plastic Hera Jig	
Hair Dryer	

3. Product Disassembly Process

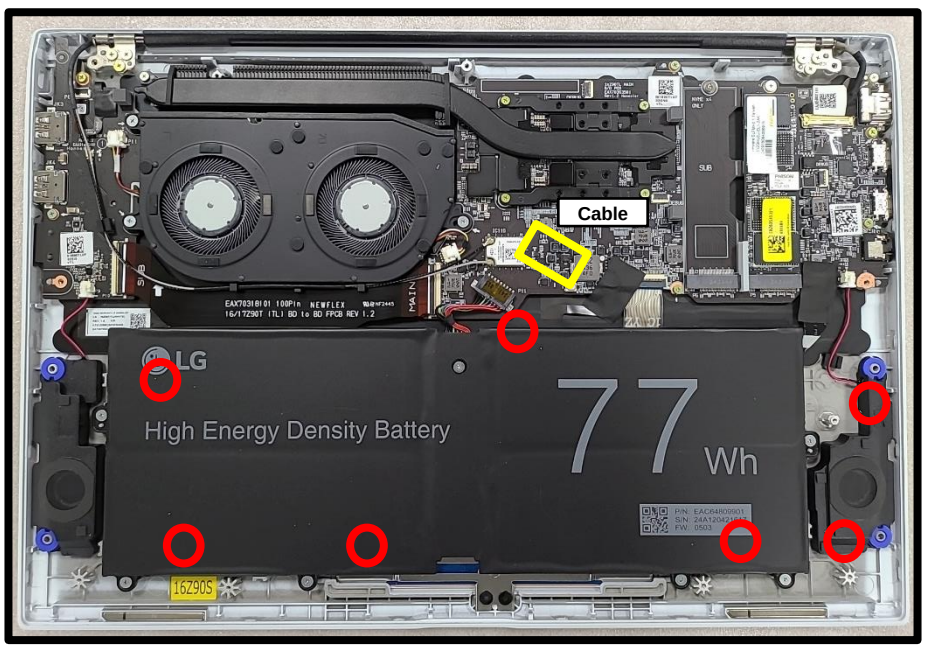
1) Batteries

Batteries can easily be removed from the PCB Assembly once the back cover of product has been removed.

open D cover after remove screw sheet 7EA, rubber 2EA and screw 9pcs



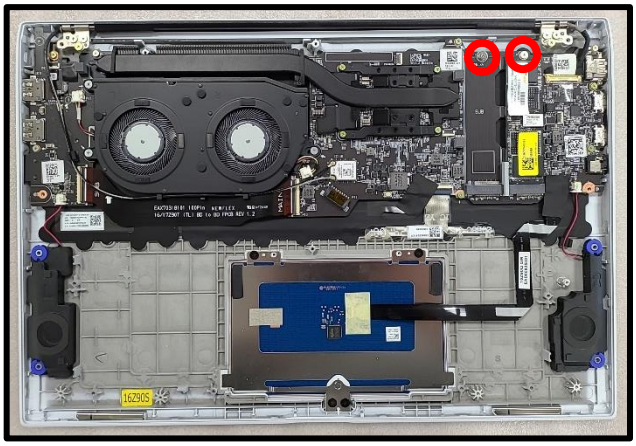
Remove battery after disconnect cable connector 1EA and remove screw 7pcs



3. Product Disassembly Process

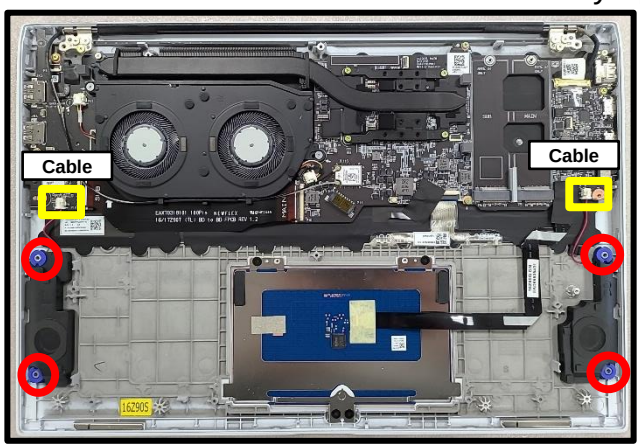
2) PCBs / SSD / Speaker / Fan / Power Button

Remove screw with screw driver to disassembly SSD



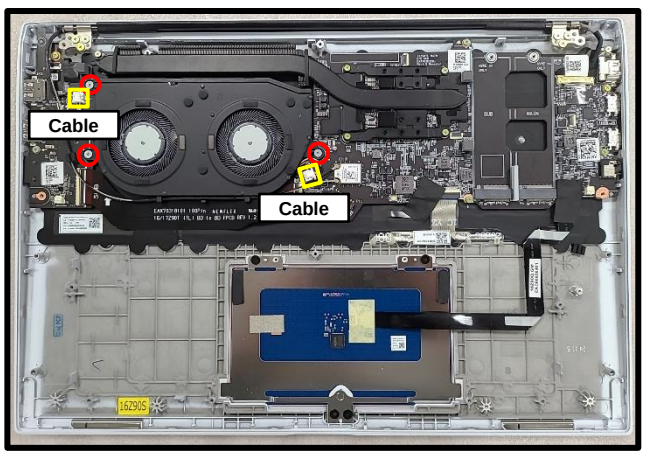


Disconnect connector 2EA to disassembly Speaker





Disconnect connector 2EA and remove screw 3cs to disassembly Fan

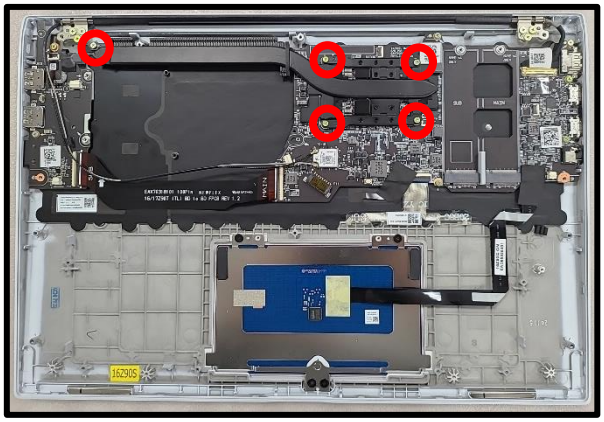


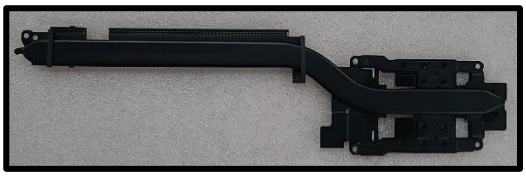


3. Product Disassembly Process

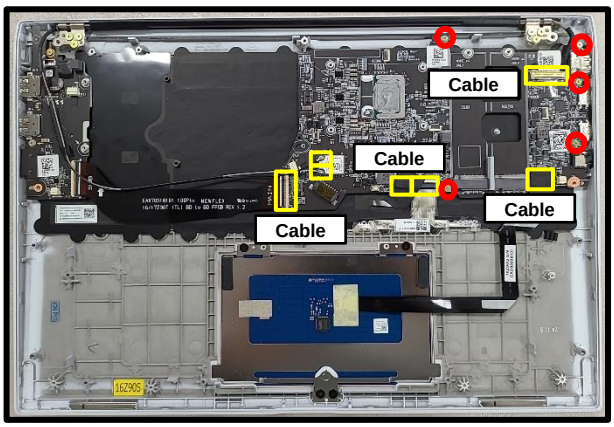
2) PCBs / SSD / Speaker / Fan / Power Button

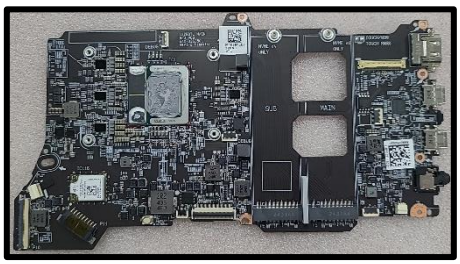
Remove screw 5pcs with screw driver to disassembly heat pipe



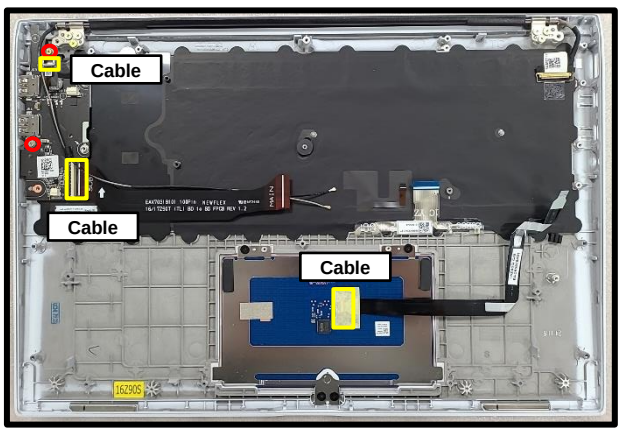


Disconnect connector 7EA and remove screw 5pcs to disassembly Main PCB





Disconnect connector 3EA and remove screw 2cs to disassembly Sub-PCB & FPCB & Power Button & FFC Cable











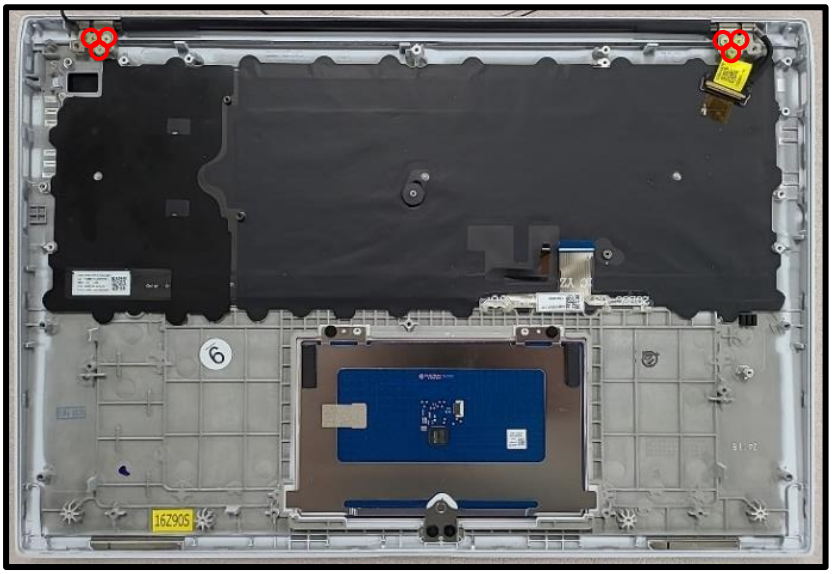
3. Product Disassembly Process

3) Plastics containing Brominated Flame Retardants

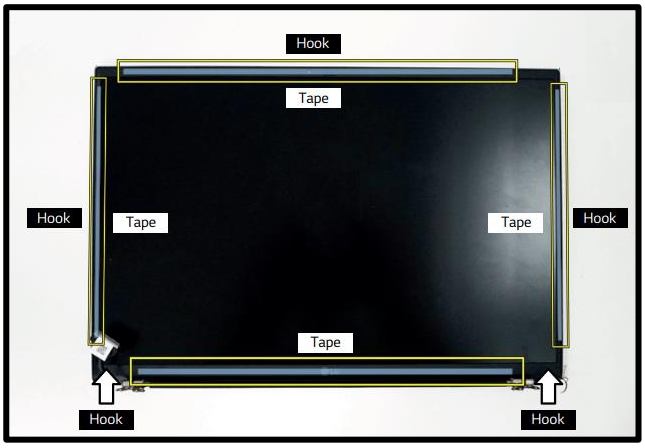
Plastic of speaker, cable connector, fan may contain brominated flame retardants, remove them all using a common available tool.

4) LCD module

Remove screw 6pcs with screw driver to disassembly display assy



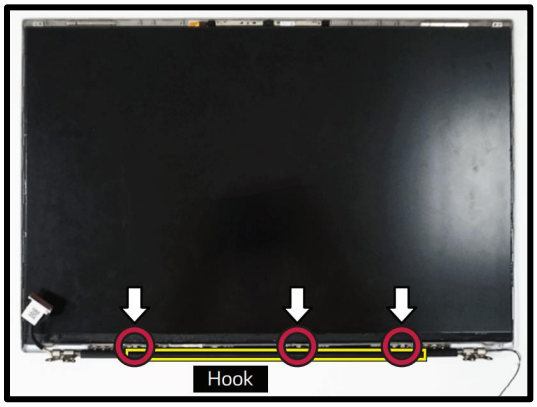
Remove Bezel with disconnect hook and tape



3. Product Disassembly Process

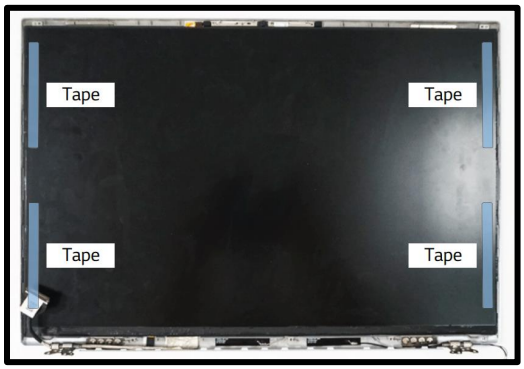
4) LCD module

Remove screw 3pcs with screw driver and disconnect hook to disassembly Hinge Cap

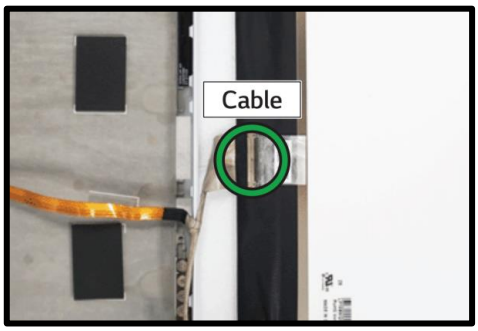




Remove tape 4EA to disassembly LCD module



Disconnect LCD connector 1EA
to disassembly LCD module



Remove LCD panel



3. Product Disassembly Process

5) Power cord and signal cables



Korea , EU



US/Canada
Japan, Taiwan

Adaptor



Type-C Cable
(Charging Only)

6) Capacitors > 25 mm

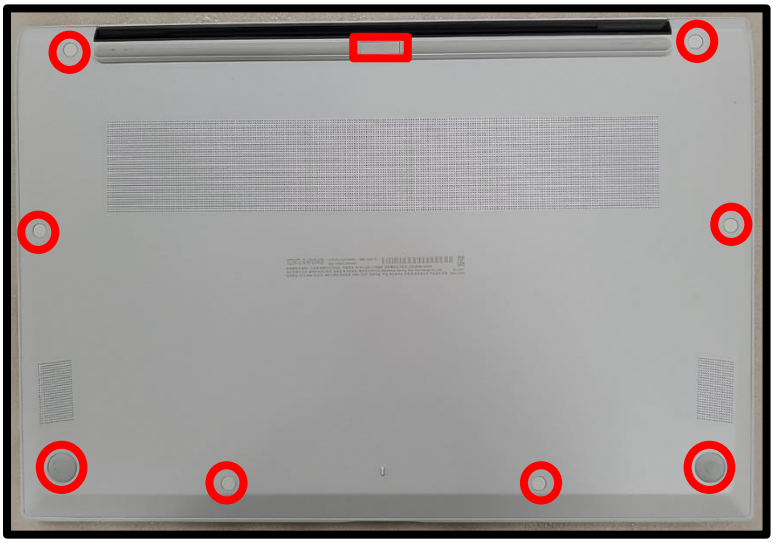
Capacitors > 25 mm is no located in product.

4. Disassembly of External enclosure

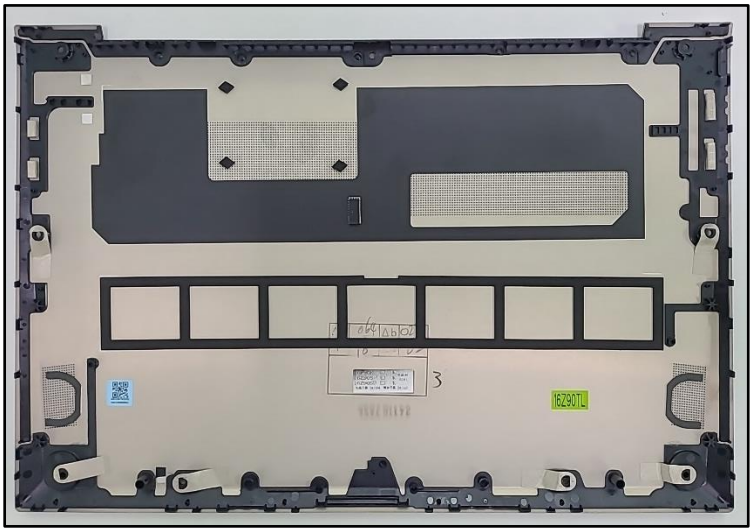
1) Bottom case

Tool Information

open D cover after remove foot rubbers and screws





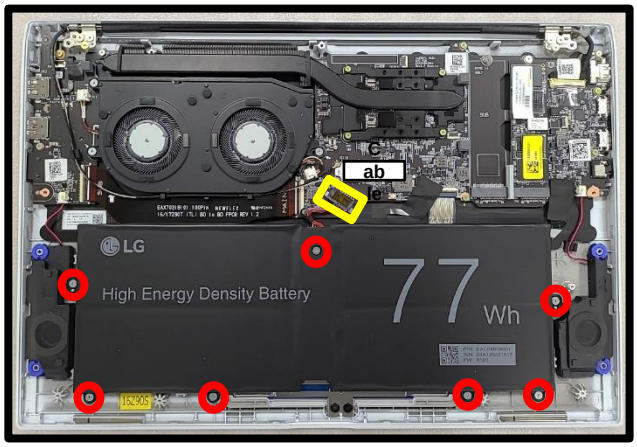


4. Disassembly of External enclosure

2) Key board deck

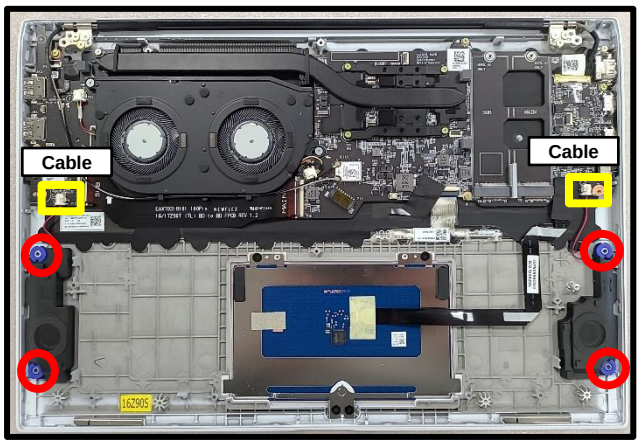
Tool Information

Remove battery after disconnect cable connector 1EA and remove screw 7pcs



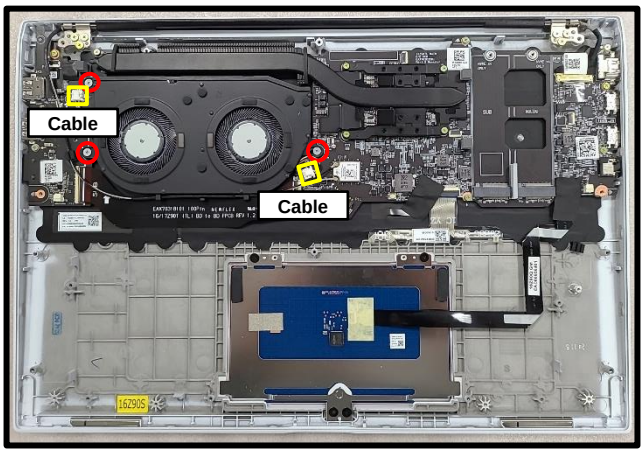


Disconnect connector 2EA to disassembly Speaker





Disconnect connector 2EA and remove screw 3cs to disassembly Fan



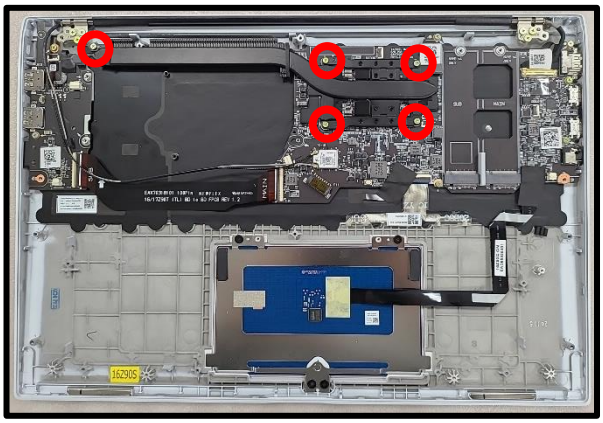


4. Disassembly of External enclosure

2) Key board deck

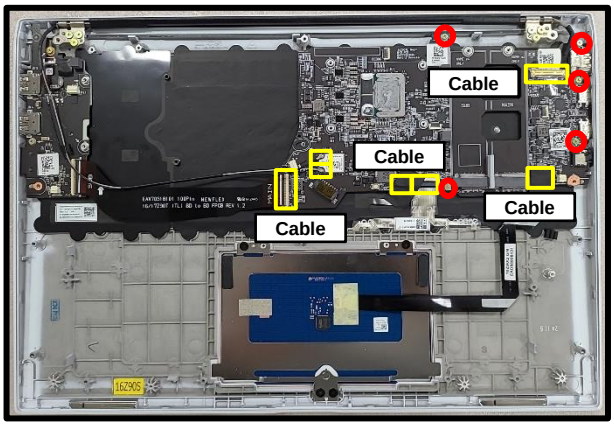
Tool Information

Remove screw 5pcs with screw driver to disassembly heat pipe



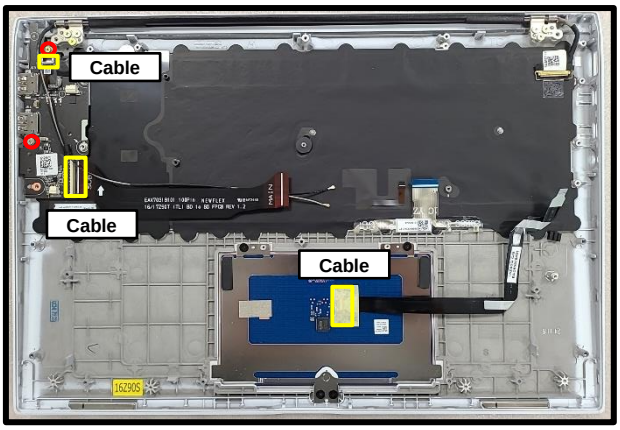


Disconnect connector 7EA and remove screw 5pcs to disassembly Main PCB





Disconnect connector 3EA and remove screw 2cs to disassembly
Sub-PCB & FPCB & Power Button & FFC Cable



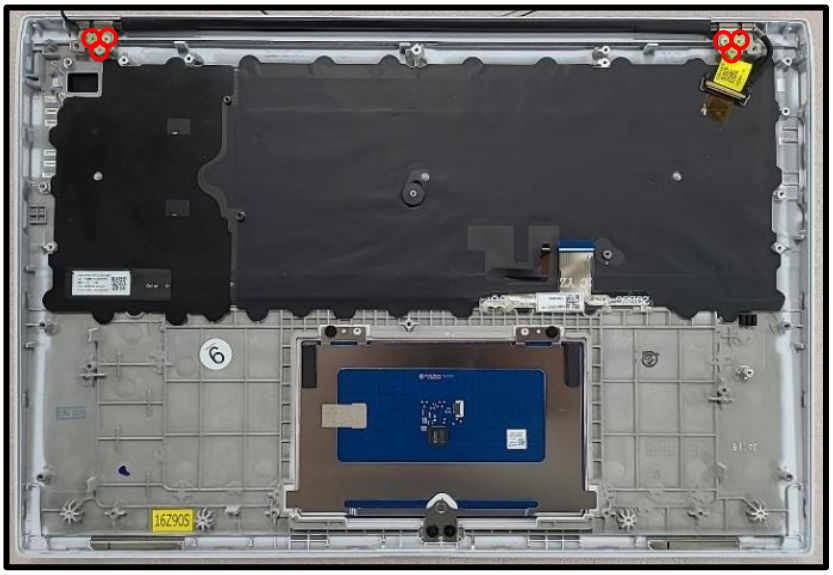


4. Disassembly of External enclosure

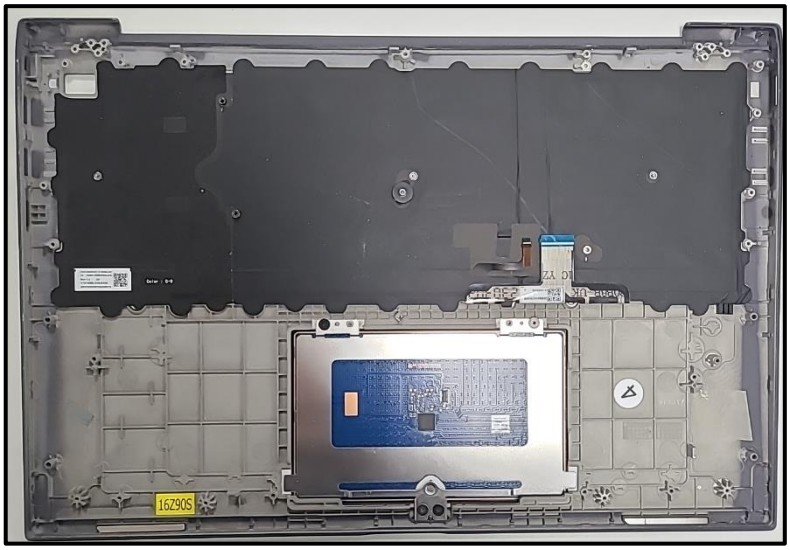
2) Key board deck

Tool Information

Remove screw 6pcs with screw driver to disassembly display assy





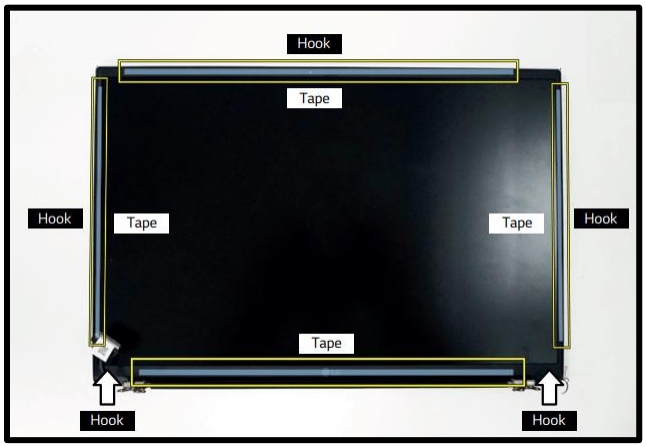


4. Disassembly of External enclosure

3) Display Front Case

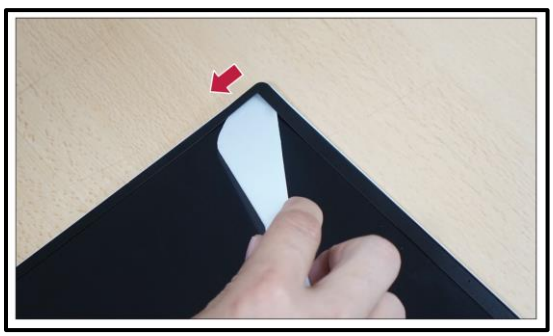
Tool Information

Remove front case with disconnect hook and tape





Disassemble front case slowly using Hera to disassemble the Display Front Case





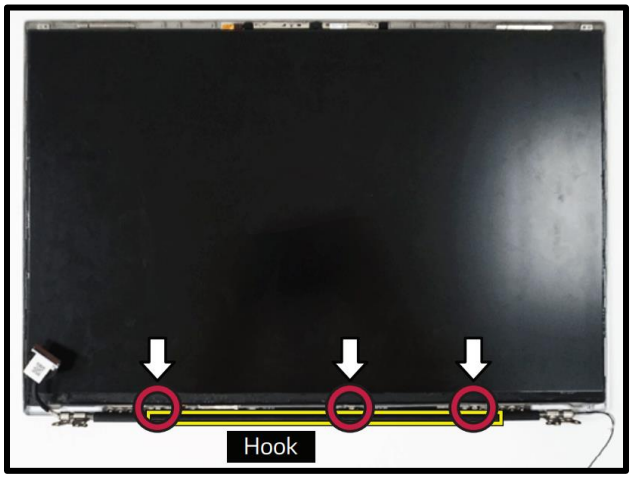


4. Disassembly of External enclosure

4) Rear Case

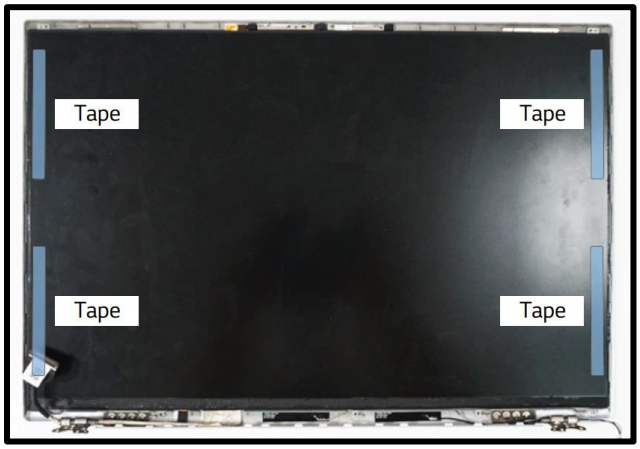
Tool Information

Remove screw 3pcs with screw driver and disconnect hook to disassembly Hinge Cap





Remove tape 4EA to disassembly LCD module



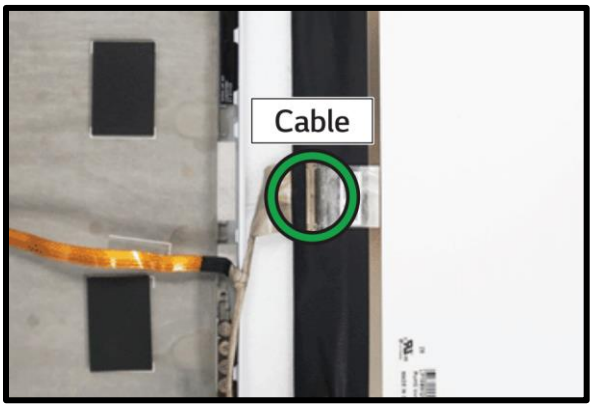


4. Disassembly of External enclosure

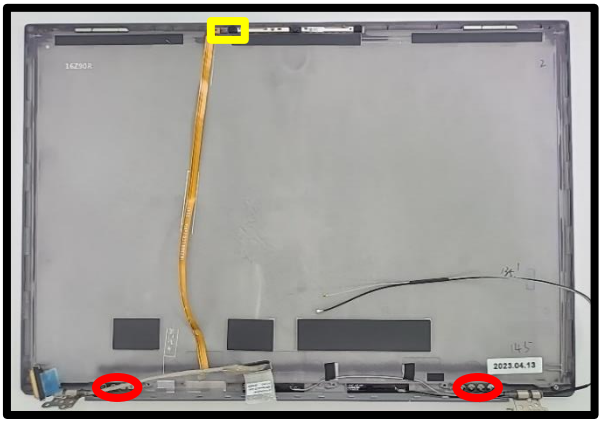
4) Rear Case

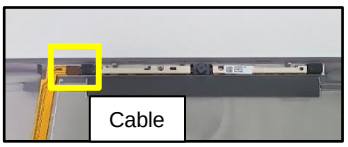
Tool Information

Disconnect LCD connector 1EA to disassembly LCD module



Remove cable to webcam for detaching camera module
And remove screws to disassembly Hinges, LCD Cable, Antenna









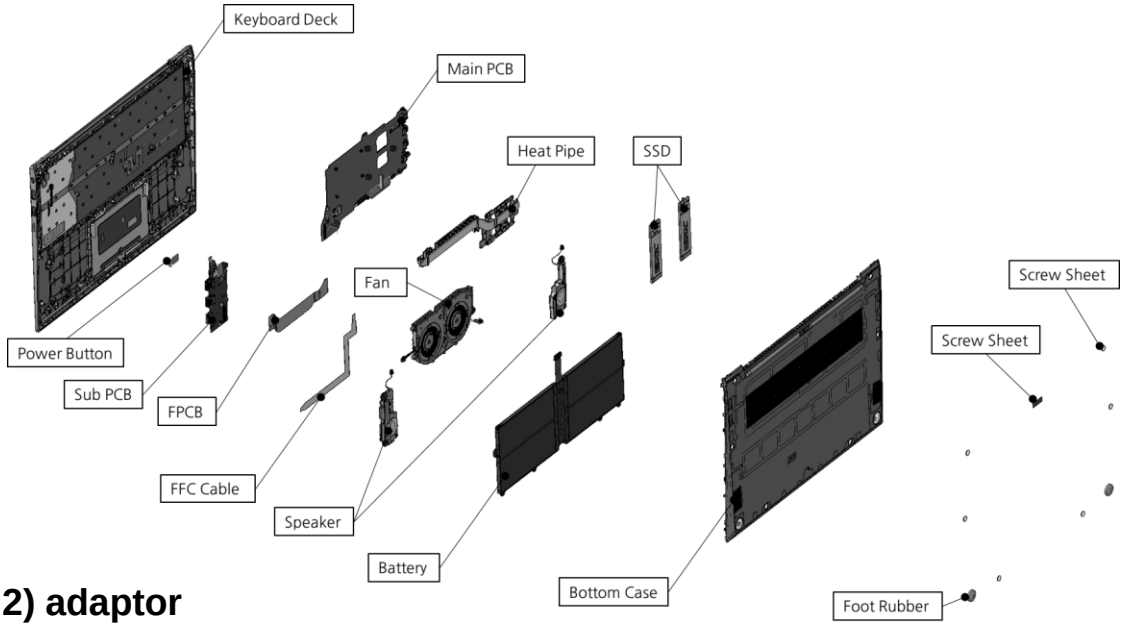






5. Exploded Diagram of Parts

1) Keyboard deck



2) adaptor



3) Rear case

