

Dismantling information

TYPE OF PRODUCT : TELEVISION

MODEL NAME : **LS03B******

CAUTION :This information is for use by qualified service personnel only.

The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of products to remove components and materials requiring selective treatment, as defined by Directive 2012/12/EU , Waste Electrical and Electronic Equipment (WEEE).

Displays must be stored in accordance with the requirements stipulated in Appendix VIII (1) or (2) of Directive 2012/12/EU and must, amongst other things, be stored in a weatherproof manner. Containers with covers must be used when storing and transporting Displays.

No.	Substance, mixtures and components	Included	Location
a)	mercury containing components, such as switches or backlighting lamps	N	-
b)	batteries	N	-
c)	printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres	Y	Main PCB, Power board, Jog, T-Con
d)	toner cartridges, liquid and paste, as well as colour toner	N	
e)	plastic containing brominated flame retardants	Y	Main PCB, Power board, Jog, T-Con
f)	asbestos waste and components which contain asbestos	N	-
g)	cathode ray tubes	N	-
h)	chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC)	N	-
i)	gas discharge lamps	N	-
j)	liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps	Y	LCD Panel
k)	external electric cables	Y	Power cable Signal cables

l)	components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress for the 23rd time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substance	N	-
m)	components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation	N	-
n)	electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume) These substances, mixtures and components shall be disposed of or recovered in compliance with Directive 2008/98/EC	N	Power board
o)	cathode ray tubes: the fluorescent coating has to be removed	N	-
p)	equipment containing gases that are ozone depleting or have a global warming potential (GWP) above 15, such as those contained in foams and refrigeration circuits: the gases must be properly extracted and properly treated. Ozone-depleting gases must be treated in accordance with Regulation (EC) No 1005/2009	N	-
q)	gas discharge lamps: the mercury shall be removed	N	-

NOTE

※ Before disassemble the product, please remove a power cord and other external cables plugged into the rear cover of the product. The parts can be easily separated by hand.

※ Tools Required : Screwdriver, Nipper and Jigs on the next page

※ Electrolyte capacitors (Applied models only) :

After unplugging the power cord, the capacitance is still charged. Do not touch and discharge the capacitor. And remove the capacitors by a nipper from the power board.

3. Disassembly and Reassemble

This section of the service manual describes the disassembly and reassembly procedures for the LED TV.



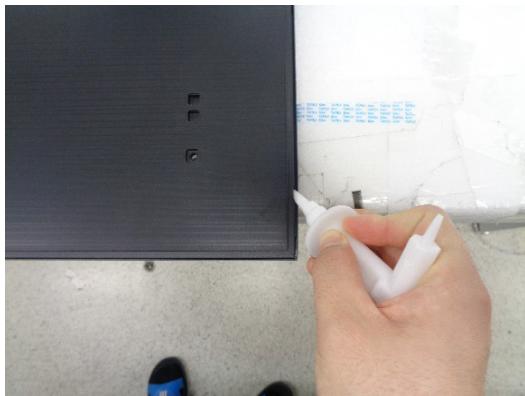
1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully.
 - Use the Samsung Open Jig and Cushion to remove the Rear Cover.
 - Open Jig Tool, Protection Cushion (curved models Only)
 - Recommended Torque for Cabinet/Stand screws : 10 ~ 12kgf
 - A strength of Torque can be changed depending on the situation.

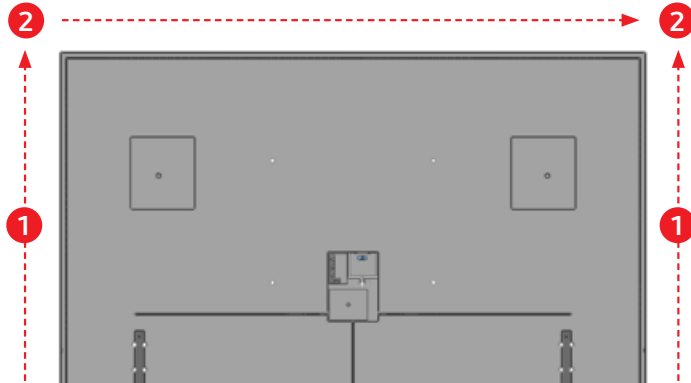
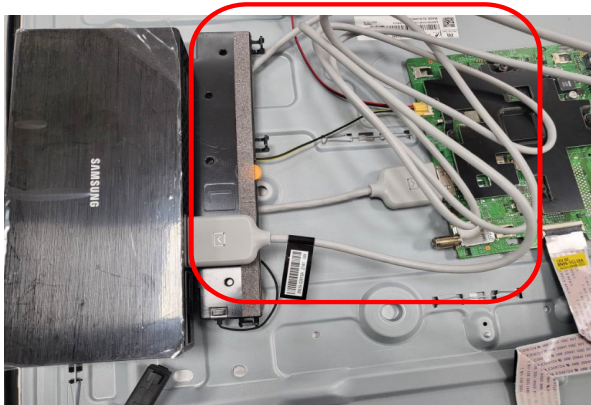
- For information about purchasing arts and jigs for EU region, please visit <http://www.samsung.com/support>
Samsung ASC can purchase listed Jigs on GSPN.

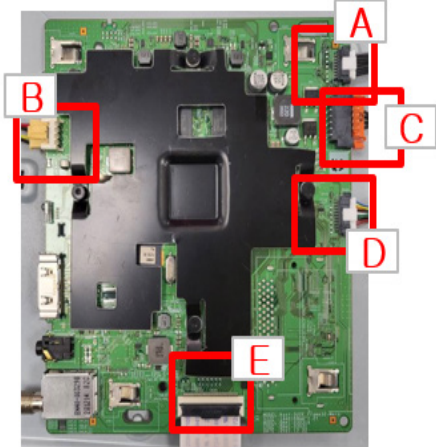
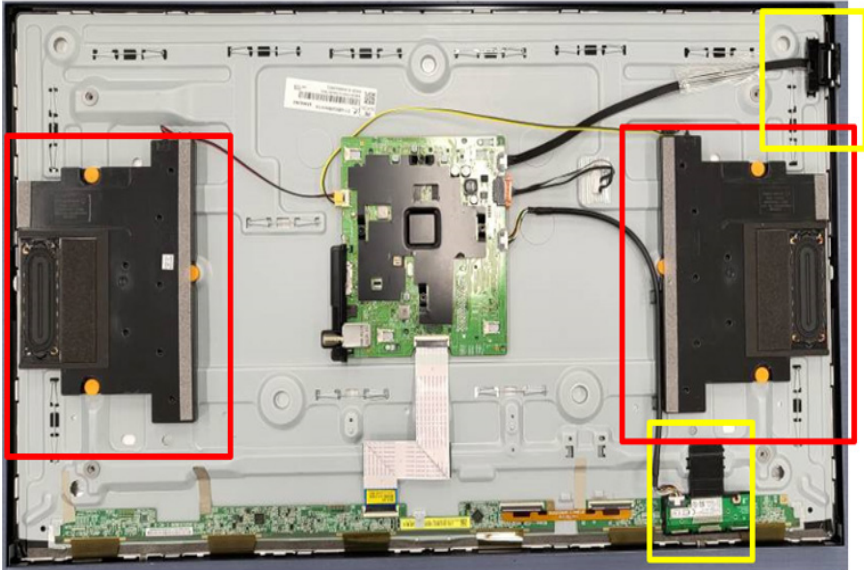
Assembly Misc P-jig-2017 (BN81-14946A)	Delphinus (BH81-00001A)	Assembly Misc P-jig-2017 (TV OCB Models : BN81-14946B)	Service Jig-Capacitor Discharge (BN81-16292A)

3-1. TV Disassembly

1 • Remove the Deco (if Deco is installed) and Place the Frame TV on the table. • Remove power cord and connections and place the TV down onto a protected surface.	Remark
 	

2	Remove the two stands 	Remark  6003-001907 (SCREW-TAPTYPE)
3-1	• Use “Open Jig” Tool & beginning at side bottom of cover rear and working out towards the sides: Release each tab by pushing straight in at each Notch location. - keep tool towards the right when entering each notch to help release it. 	Remark  BN81-14946B (Open Jig)

3-2	Now Move up left side of panel while releasing tabs. Note: Will have to remove & re-insert jig to get around bottom corner. Repeat procedure beginning with bottom right tab and moving up Right Side of panel Move across top of panel to release tabs.  Lightly lift and loosen the HOOK located in the middle.	Remark
3-3	Gently lift up the rear cover beginning at the top while carefully continuing to release mounting clips located at the bottom. Be extra careful of components along the bottom. 	Remark
3-4	Reconnect One Connect Box & Power Cord 	Remark

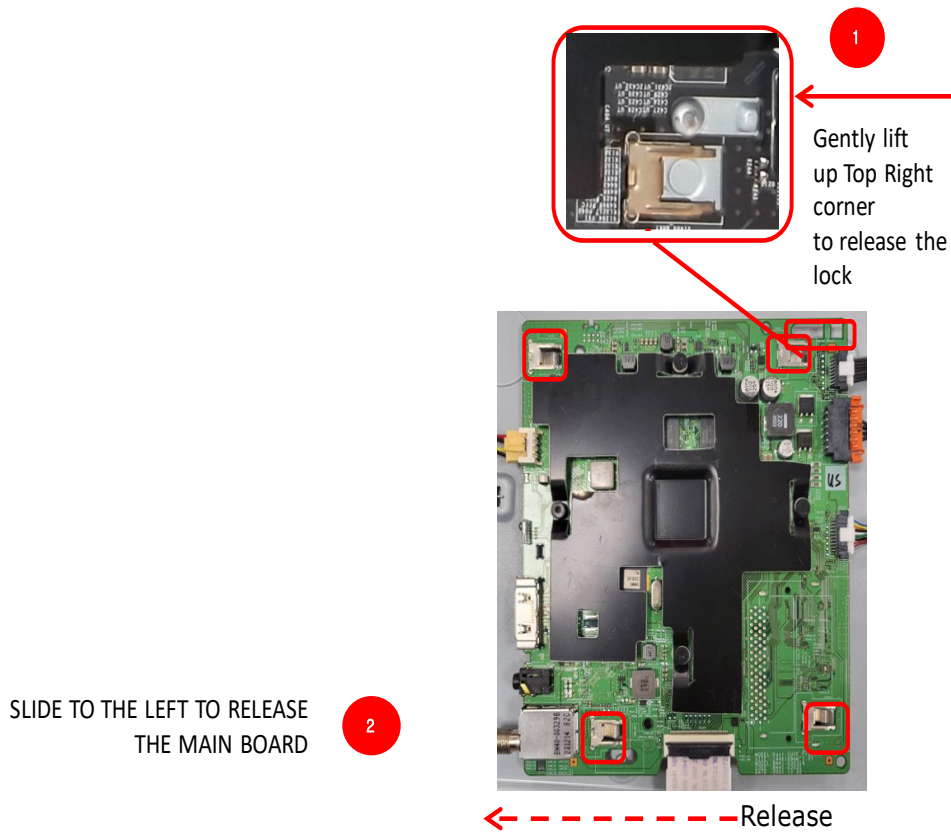
4	Remove the Function Cable(A), Speaker Cable(B), LED Cable(C), WIFI(D), and FFC Cable(E)	Remark
		
5	Remove the Speaker Cable,IR/Function, BT/WiFi module and Cable. Then remove Speaker A, B	Remark
		

6

Removing Main board

- Gently lift up (Top Right corner) to release the lock
 - Use both hands to hold the board and slide to the left to release the board
- ※ When installing the Main board, verify the board is properly positioned in all 4 mounting slots.

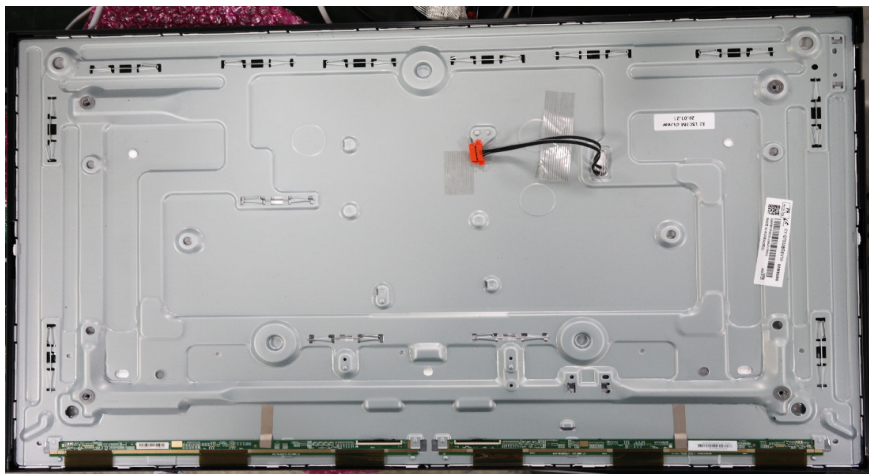
Remark



7

Completely Disassembly

Remark



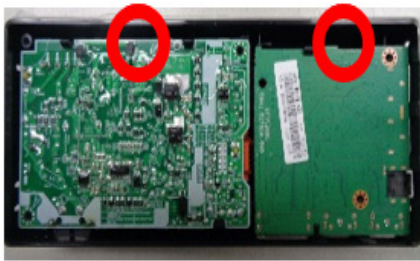
3-2. One Connect Disassembly

1	Remove 5 Bottom Cover screws at Arrow Markings on the Cover.	Remark
 		
2	Use New Open Tool or a similar tool at each Bottom tab to release top Cover.	Remark
 		
		 BN81-14946B (Open Jig)

3

Turn One Connect Box upright and Remove Top Cover.
Use New Open Tool or similar tool at each points as below to release Main board and SMPS.

Remark



Service Jig-Capacitor Discharge

- If LED ON & LED OFF discharge is completed.



BN81-16292A



WARNING

Before Removing SMPS Board

- Across leads of each large Capacitor to remove its charge.
 - ✓ An LED light indicator on the tool will flash each time a charge is removed.

