

Dismantling information

TYPE OF PRODUCT : TELEVISION

MODEL NAME : **Q70B******

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.



CAUTION

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)

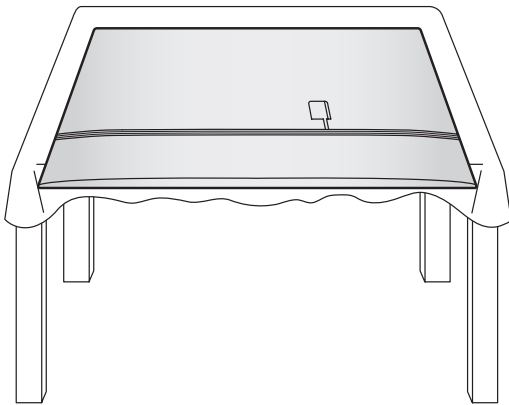


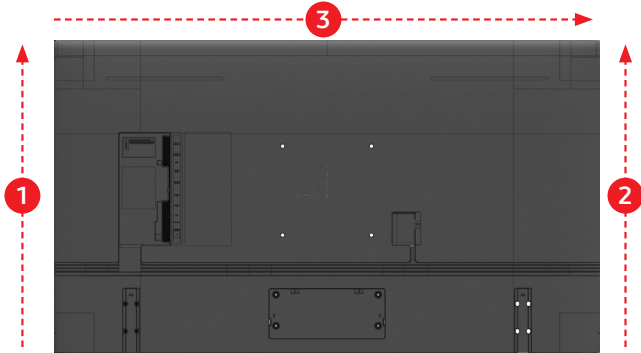
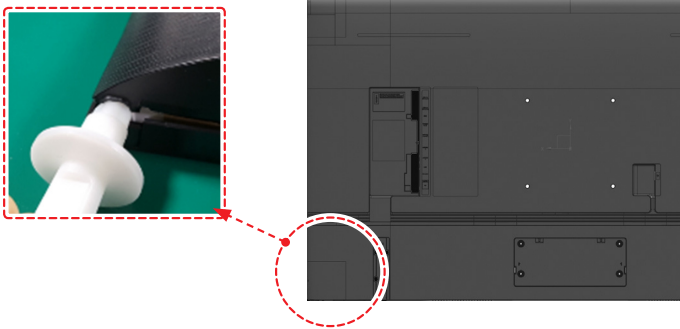
Assembly Misc P-jig-2017
(TV OCB Models : BN81-14946B)

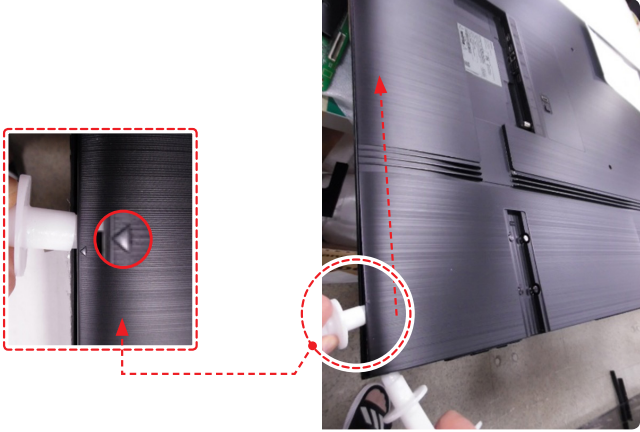
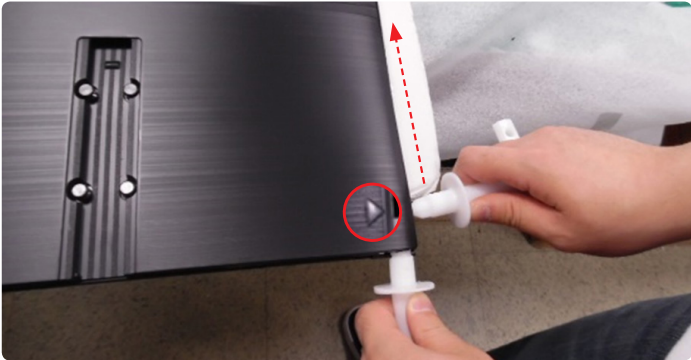


Service Jig-Capacitor Discharge
(BN81-16292A)

3-1. TV Disassembly

1	Remove power cord and connections and place the TV down onto a protected surface. 	Remark
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2	Loosen 4 screws and detach Center stand. 	Remark
3-1	Remove the ASSY COVER P-REAR.  Jig Direction (←---)	Remark
3-2	Insert the Open Jig completely into the tab (slot) of the rear cover's left side bottom corner to release. 	Remark  BN81-14946A (Open Jig)

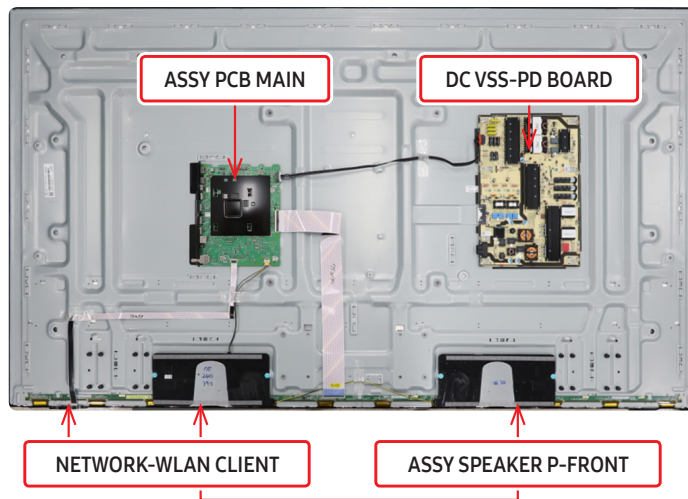
3-3	Insert new longer Tip second tool on bottom left side at designated (📍) about 2 inches from the bottom, then insert fully while angling tool and proceeding to open cover up left side to the Top.	Remark
		 BN81-14946A (Open Jig)
3-4	Insert Open Tool in bottom right corner tab (slot) to release.	Remark
		 BN81-14946A (Open Jig)
3-5	Insert second tool on bottom right side designated (📍) while angling tool and proceeding to open cover up right and across the top.	Remark
		 BN81-14946A (Open Jig)

4	Gently lift up the rear cover from the top middle.	Remark
	[Check] Check the bottom ASSY COVER P-DECORATION. It could be disassembled. (Easy to disassembled by Opening REAR COVER) If Bottom Deco is disassembled, Please Re-assemble by clench your hand.	

5-1

Gently lift up the Rear Cover starting at the top being careful of function assembly at the bottom.

Remark



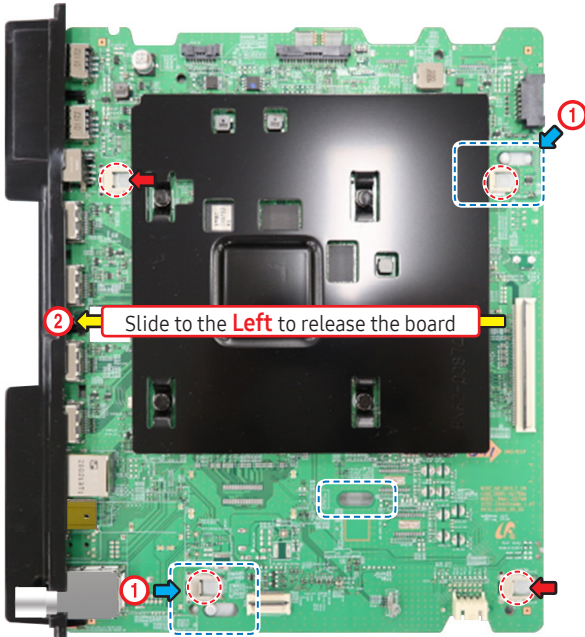
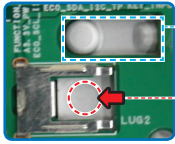
5-2

Before removing BT/WIFI/IF Function, remove tape first.
(If not, function connector can be broken.)

Please remove BT/WIFI/IF Function from up to down.
(If not, function connector can be broken.)

Remark



6 Remove Main Board. ① Gently lift up (Top Right corner) to release the lock. ② 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
A top-down view of a green main board with a large black heat sink in the center. Four red dashed circles, each with a red arrow and a circled '1', point to the corners of the board. A yellow double-headed arrow points from the center of the board to the left, with a red box containing the text 'Slide to the Left to release the board' and a circled '2' at the start of the arrow. A detailed view of a mounting slot on the board. It shows a small rectangular component being lifted up by a blue arrow. Below it, a red dashed circle with a red arrow and a circled '1' points to a hole. To the right of the hole, there is a blue arrow pointing left labeled 'Locking' and a red arrow pointing right labeled 'Fixing Hole'. ① Lift up (2EA) Locking ← ① Mounting slots (4EA) Fixing Hole →	

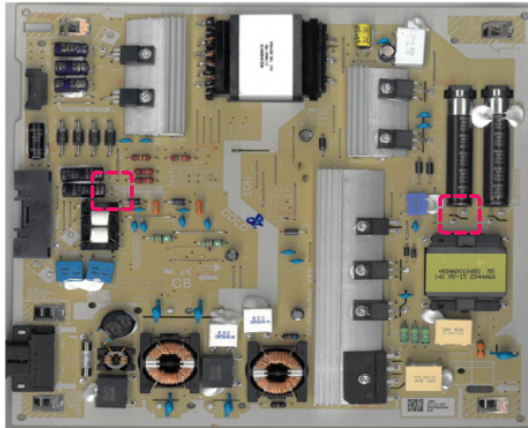
7-1

Remove SMPS.

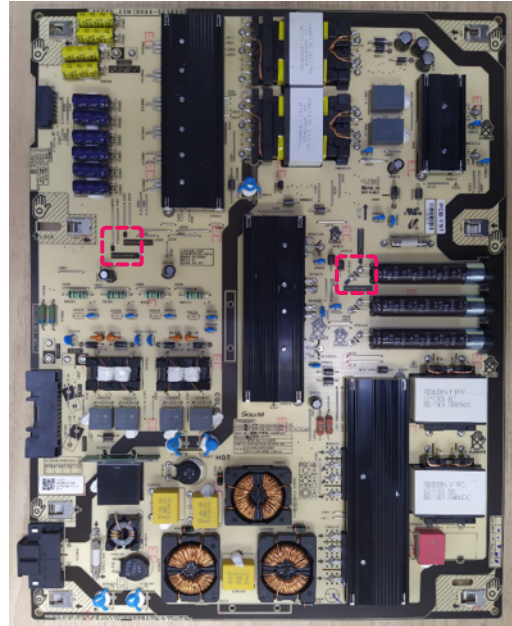
Before Removing SMPS board – Discharge the Capacitor

- You have to discharge the SMPS by using service JIG across leads of Large Capacitors as pictured below.
- If LED ON → LED OFF, Discharge is completed. Then verify voltage is less than 10Vdc across leads with Volt Meter
- Check with Multi Meter across each capacitor leads to verify less than 10 Volts remains.

55/65"



75/85"



Service Jig-Capacitor Discharge

- If LED ON & LED OFF discharge is completed.



BN81-16292A

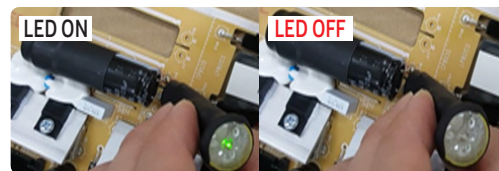


NOTE

- The DC VSS-PD BOARD specification depends on the model and region.



Service Jig-Capacitor Discharge (BN81-16292A)



<Before discharging>

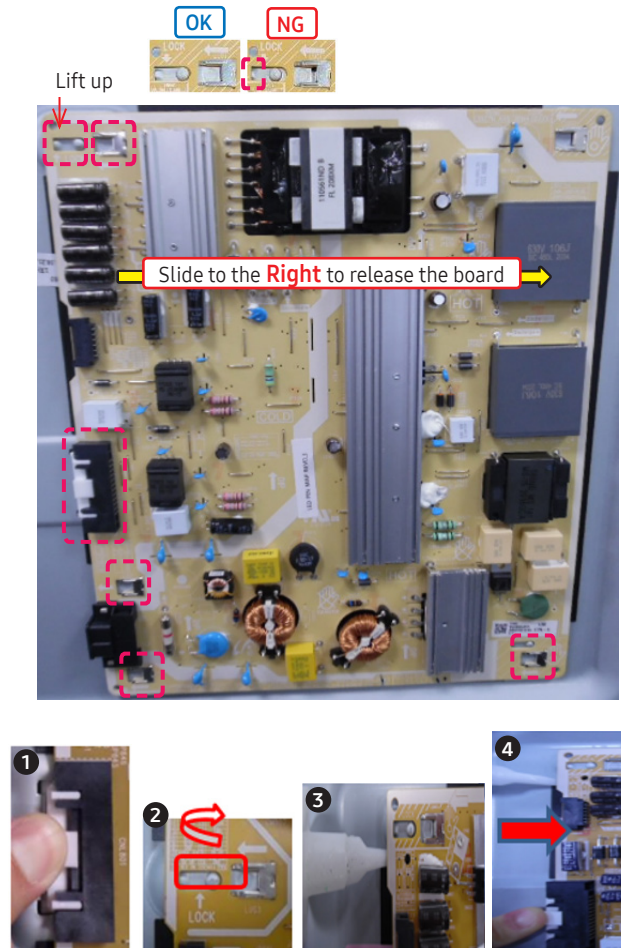
<After discharging>

7-2

Remove SMPS.

- 1) Push and hold down BLU connector tab to release it's panel lock connection.
- 2) Lift to release the lock tab on upper left side of Board. (Step 4 will assist)
- 3) Locate a lock notch. (lift up)
- 4) Use Open Jig in notch to help release & smoothly slide SMPS to the Right.
(While pushing BLU Tab & Releasing Lock Tab)

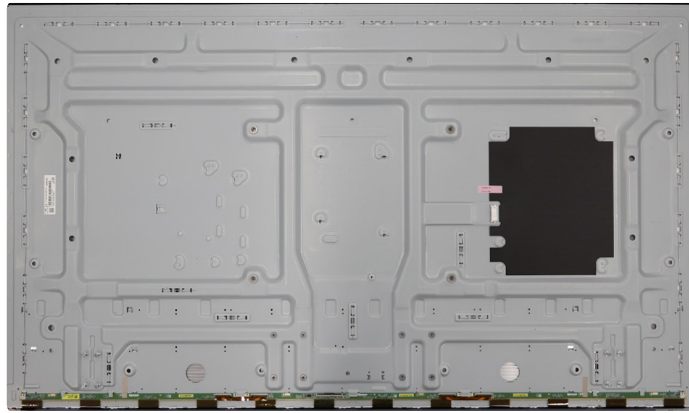
Remark



8

Completed the disassembly.

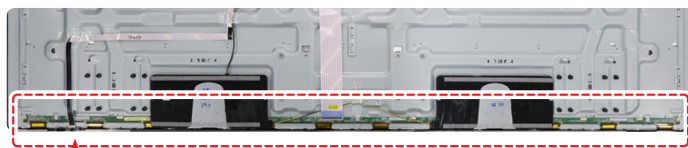
Remark

**[Check Again]**

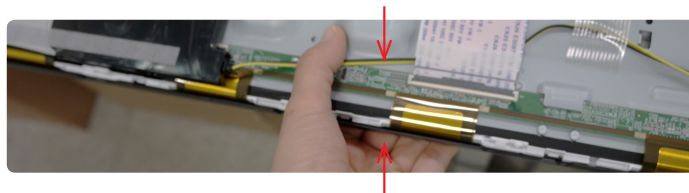
Check the bottom ASSY COVER P-DECORATION.

It could be disassembled. (Easy to disassembled by Opening REAR COVER)

If Bottom Deco is disassembled, Please Re-assemble by clench your hand.



ASSY COVER P-DECORATION

**NOTE**

Reassembly procedures are in the reverse order of disassembly procedures.