

Dismantling information

TYPE OF PRODUCT : TELEVISION

MODEL NAME : **CU7*******

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 Parts and jigs for EU region, please visit <http://www.samsung.com/support>
Samsung ASC can purchase listed Jigs on GSPN.

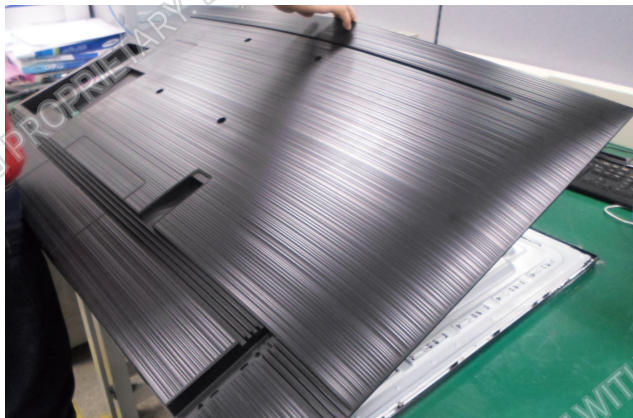
Assembly Misc P-jig-2017 (BN81-14946A)	Assembly Misc P-jig-2017 (BN81-14946B)	Service Jig-Capacitor Discharge (BN81-16292A)

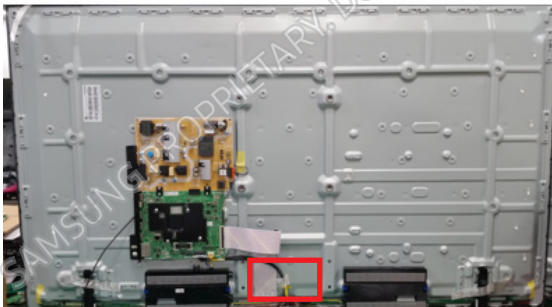
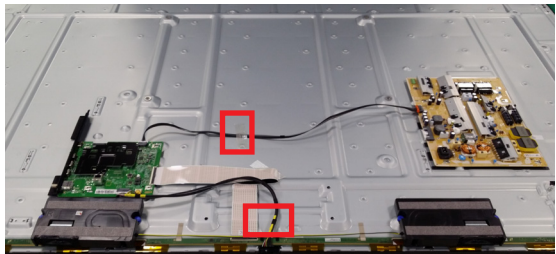
3-1. TV Disassembly

1	Carefully position the TV so that the screen is facing downwards. Make sure to place the TV upon a soft cushion or any material that will prevent damage to the screen.	Remark
2	Carefully remove the stands.	Remark

3-1 • Removing the 'Rear Cover'. - Please follow 8 sequence. ① Ready to insert open jig adjust jig edge to hole. ② Insert open jig till red line. ③ Rotate open jig to 90-degree. ④ Lift jig to unlock wire hook on bottom. ⑤ Insert hand and retain gap. ⑥ Take out jig and insert in side gap. ⑦ Insert open jig till red line. ⑧ Disassemble hooks of cover rear along the side.	Remark BN81-14946B (Open Jig)
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3-2 Disassemble all Hooks of Cover Rear along the three side.	Remark
	

3-3 Lift top side then pull back to remove the back cover.	Remark
	

4 Remove the Electric tapes shown on the images. ※ When assembling the smart signage, the electric tapes must be applied on the same locations. Please remember to take a picture of where the tapes were first applied.	
3 IN 1 BOARD 	SMPS BOARD 

5-1

- **Discharge Capacitors.(3in1 Board)**

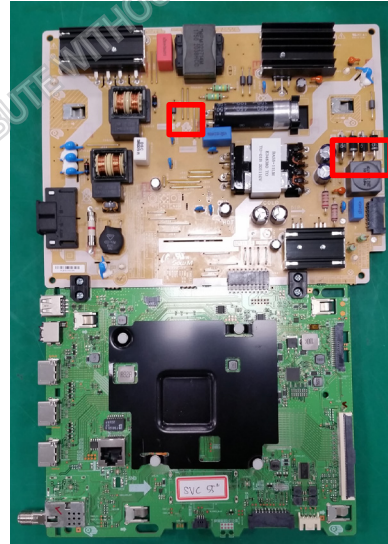
- Before remove SMPS, Must discharge capacitors for your safety.

- ✓ Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig.

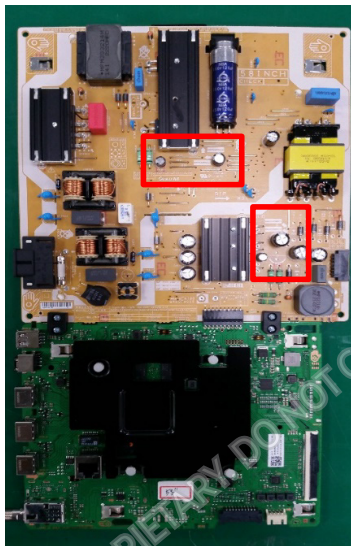
43"



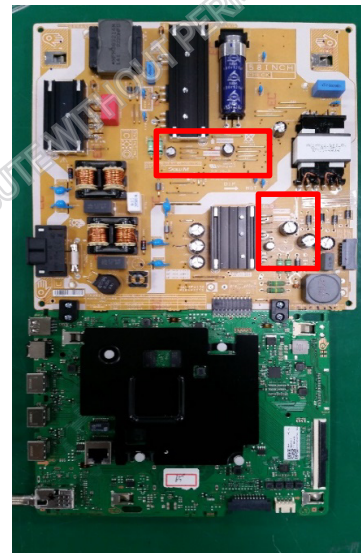
50"/55"



58"



65"



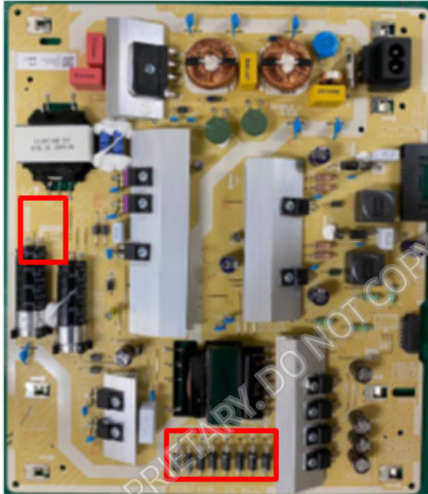
5-2

• Discharge Capacitors.(SMPS Board)

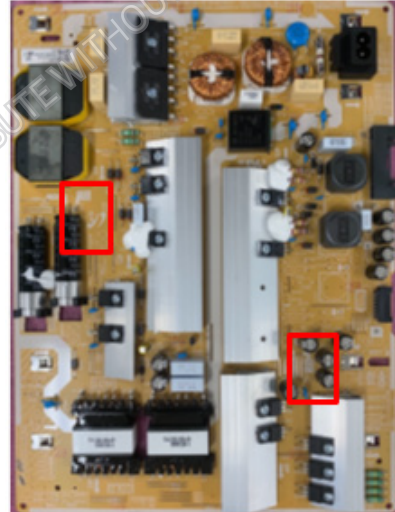
- Before remove SMPS, Must discharge capacitors for your safety.

✓ Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig..

70" / 75"



85"



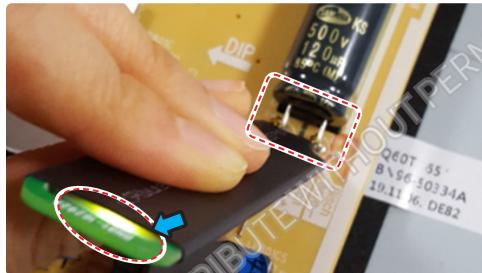
Service Jig-Capacitor Discharge

- If LED ON & LED OFF discharge is completed.



NOTE

- The SMPS BOARD specification depends on the model and region.



After Discharge check with meter Across leads for less than 5Vdc.



<Before discharging>

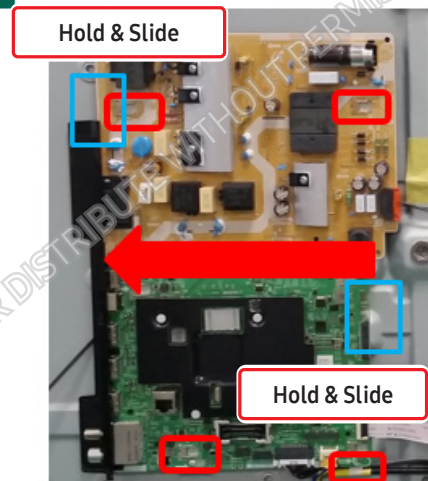
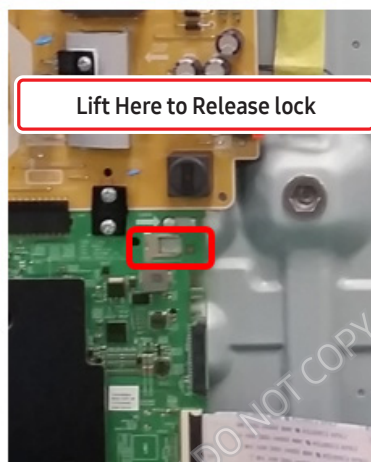
<After discharging>

Service Jig-
Capacitor
Discharge
(BN81-16292A)

6-1

- **Removing the TV Board (3inw1 Board)**

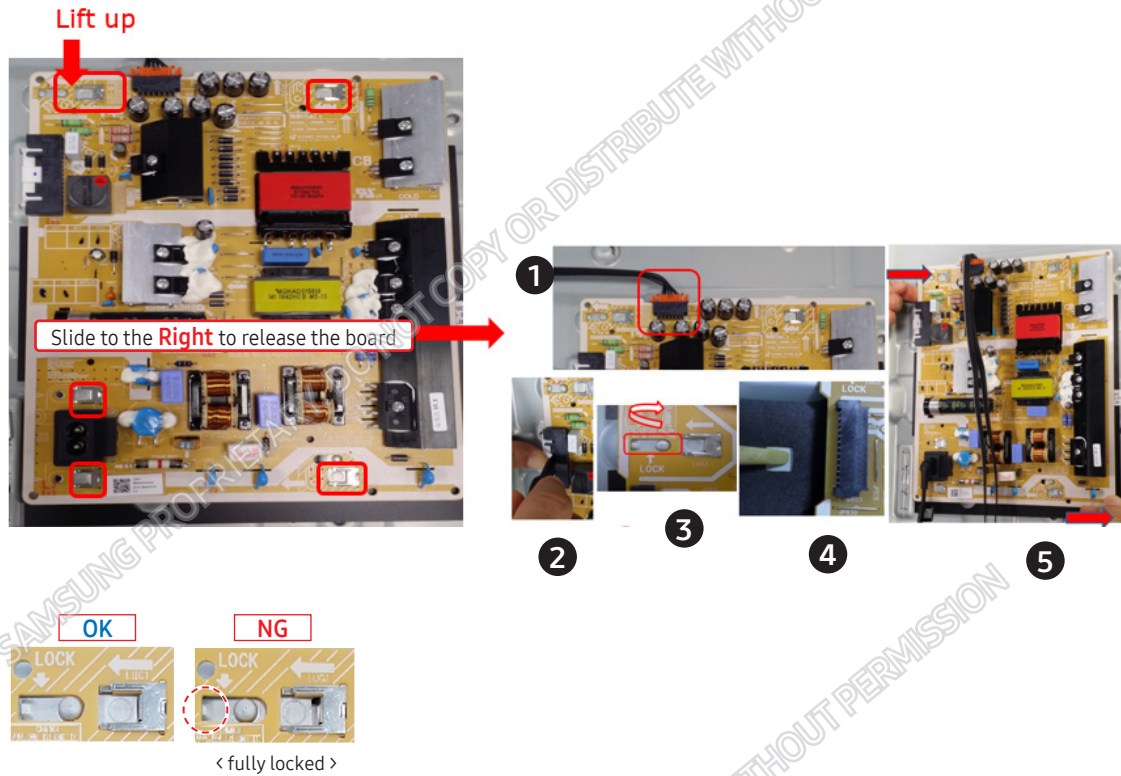
1. Remove the cables from the 'TV Board'.
2. Remove Main Board.
 - Use both hands to hold the 'TV Board' and gently lift up to release Lock at corner of Main Board section.
 - Hold the board with both hands and slide the board to the Left side to release the board. Then carefully remove the 'TV Board'.



6-2

- Removing the TV Board (SMPS Board)

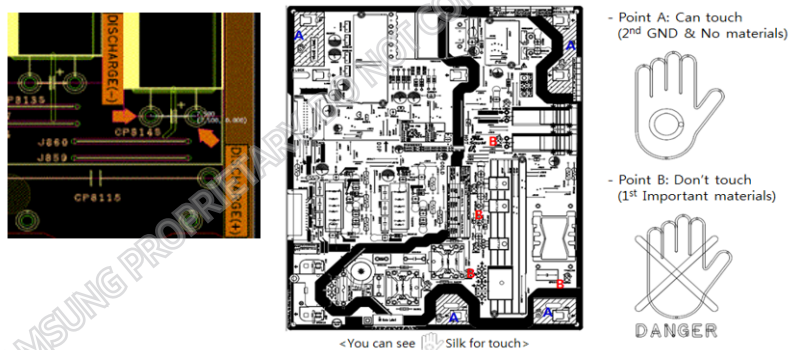
- ① Remove power connector.
- ② Push and hold down BLU Connector Tab to release its panel lock connection.
- ③ Lift to Release the Lock Tab on Upper left side of Board (Step 5 will assist).
- ④ Locate a notch in insulation sheet (not all models).
- ⑤ Use Open Tool in notch to help release & smoothly slide SMPS Board to the Right.
(While pushing BLU Tab & Releasing Lock Tab)



🔧 When installing SMPS verify the board is properly positioned in all mounting slots & fully locked.

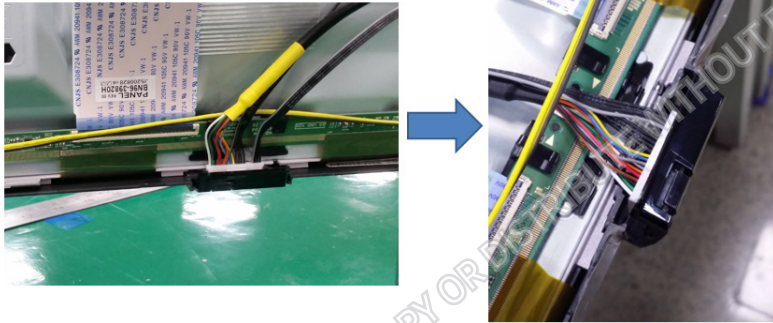
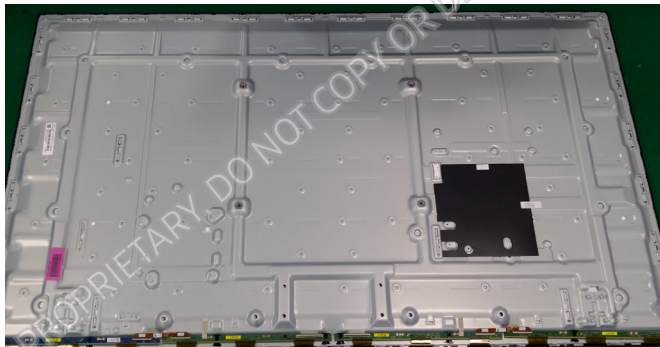
※ **Caution**

Plz discharge SMPS before disconnecting SMPS and Refer to the touch point available.



Before SMPS disconnection,
Use discharging Jig at this point for discharging SMPS.

Disassembly and Reassemble

7	Remove the IR/JOG unit. - Grab Ir/Jog with PTC to fix. - Lift Ir/Jog slightly, and pull back. 	Remark
8	Lastly, remove the speakers on both side.. 	Remark
9	Completed the disassembly. 	Remark



NOTE

Reassembly procedures are in the reverse order of disassembly procedures.