

3. Disassembly and Reassemble

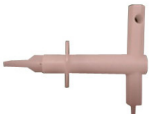
This section of the service manual describes the disassembly and reassembly procedures for the LED TV.



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 : 22.0 ~ 26.5lbf
 - A strength of Torque can be changed depending on the situation.

Open Jigs

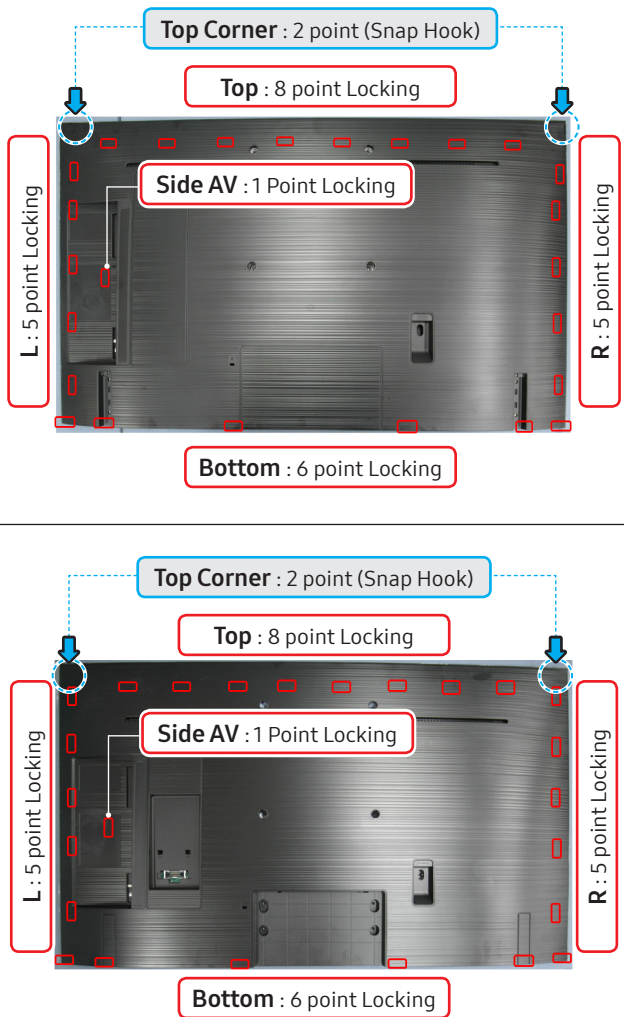
Please Use Lower Open Jig, for opening of Screwless rear cover.

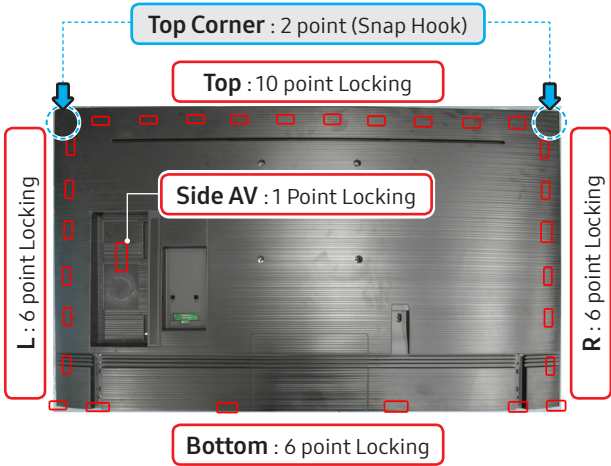
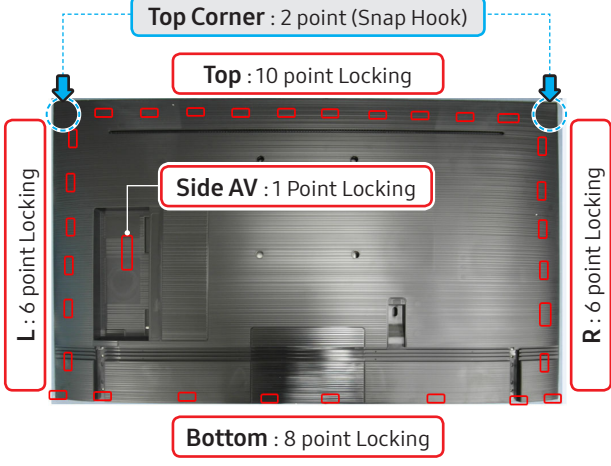
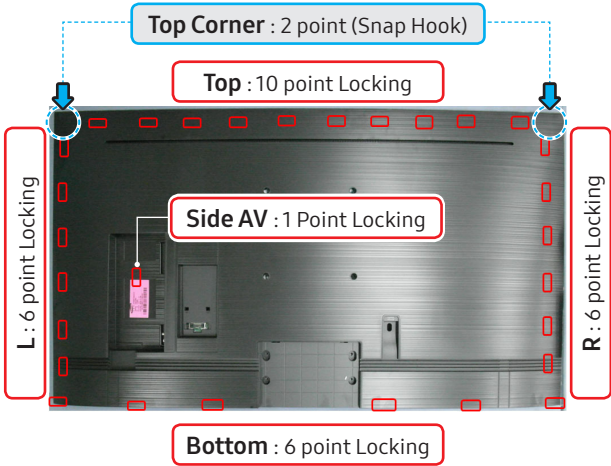
		
BN81-12844A	BN81-14946A	BN81-14946B

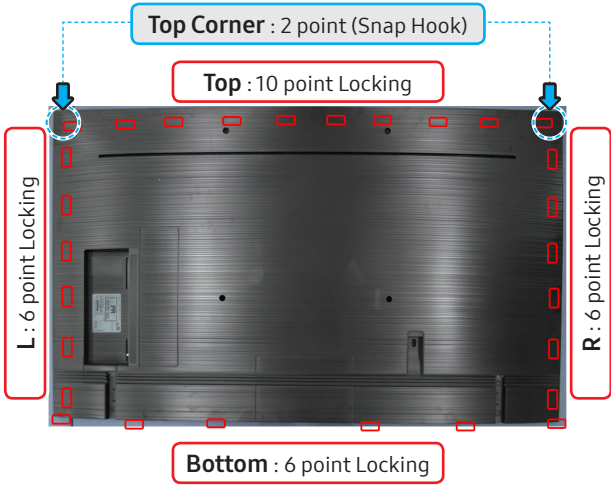
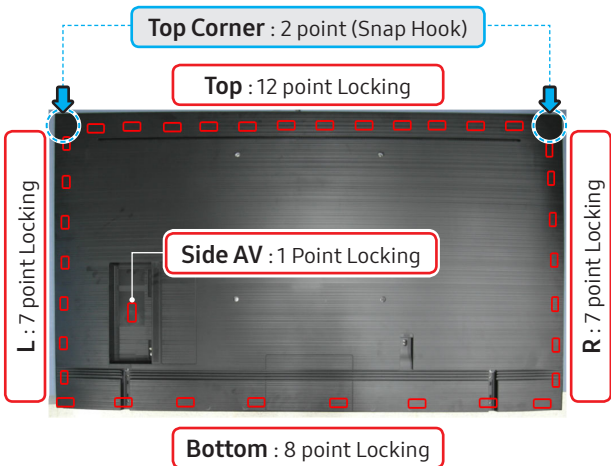
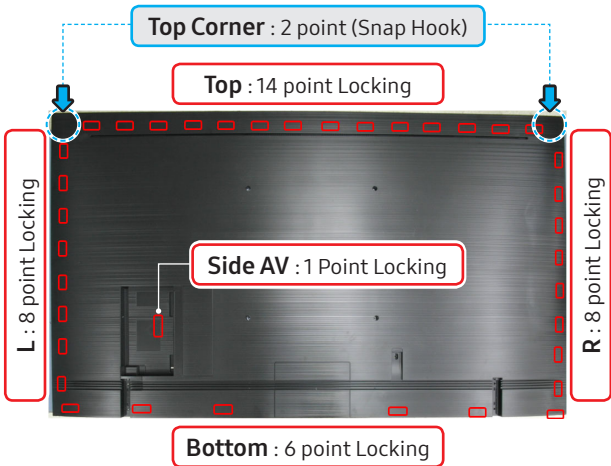
3-1. Disassembly

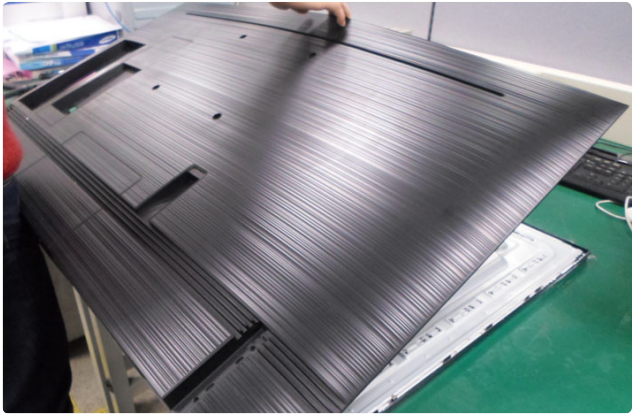
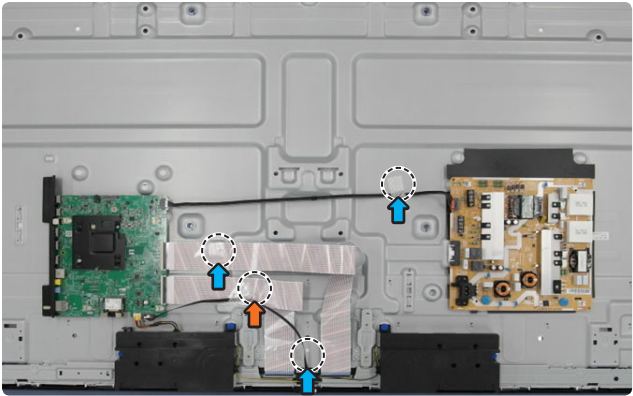
Description & Screws	Picture Description
1 Carefully position the TV so that the screen is facing downwards. • Make sure to place the TV upon a soft cushion or any material that will prevent damage to the screen.	
2 Remove the screws connecting the stand to the TV. Then carefully remove the stand. Screws  6003-001334 SCREW-TAPTYPE : M4 x L14, ZPC(BLK) • SET + STAND	

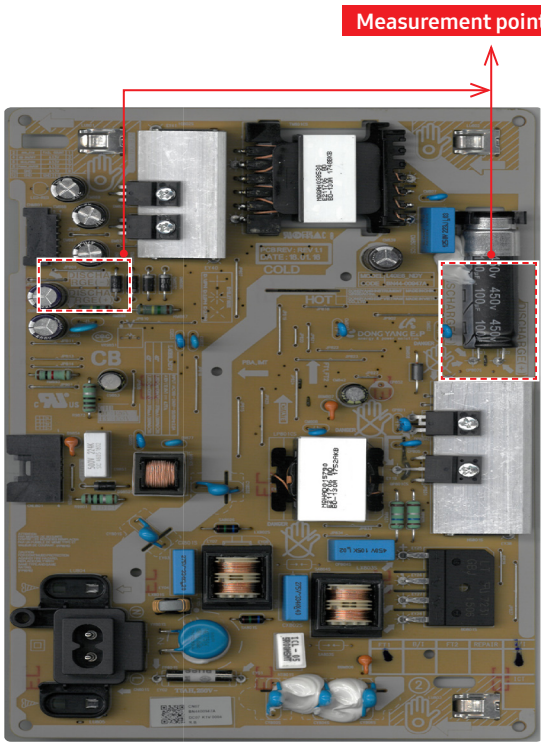
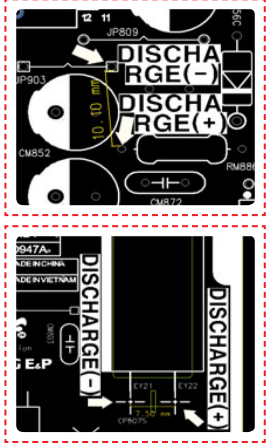
Description & Screws	Picture Description
3-1 Removing the 'ASSY REAR COVER'. (Please follow 8 sequence on right.)	1. Ready to insert open jig adjust jig edge to hole. 2. Insert open jig till red line. 3. Rotate open jig to 90-degree. 4. Lift jig to unlock wire hook on bottom. 5. Insert hand and retain 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.

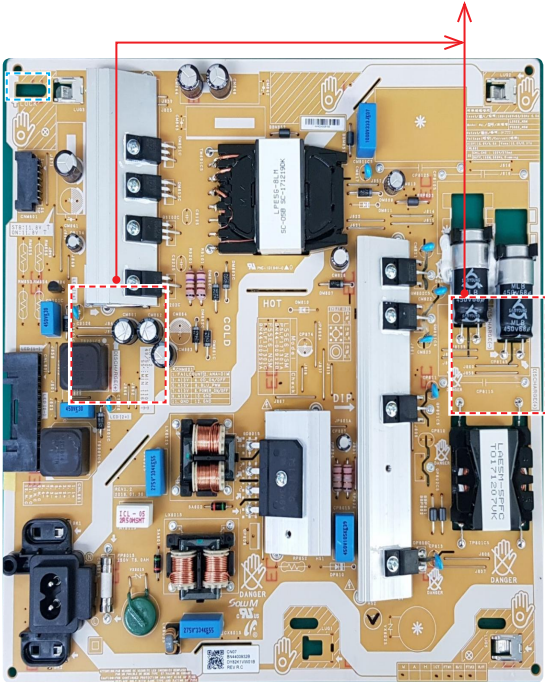
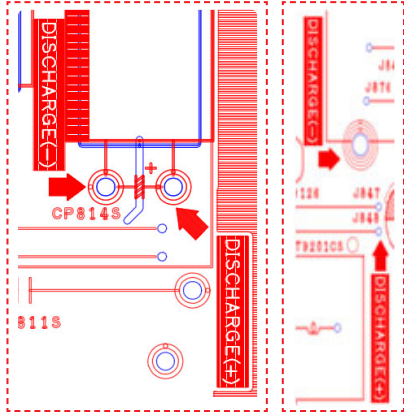
Description & Screws	Picture Description
3-2 Disassemble all Hooks of Cover Rear along the three side.	
Locking tabs locations • 40" • 43"	

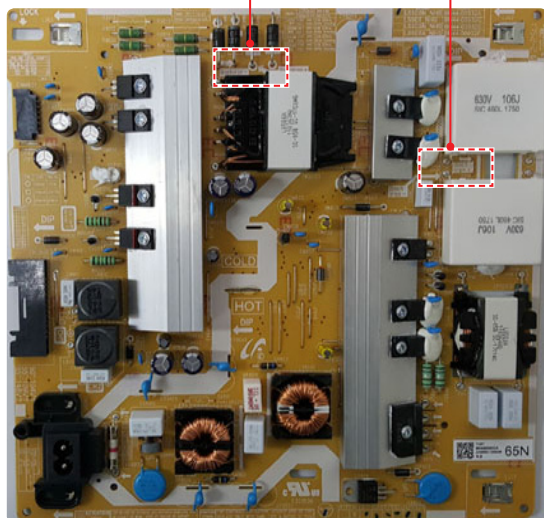
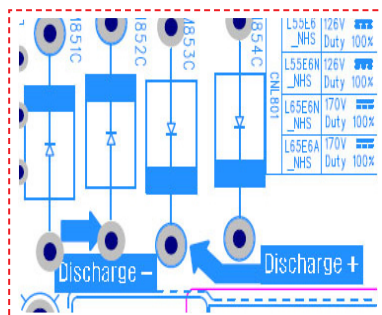
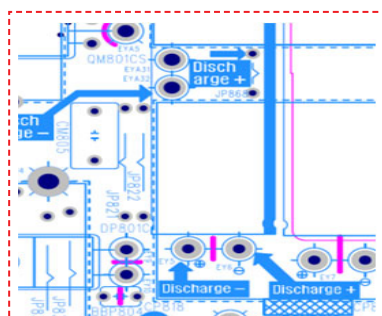
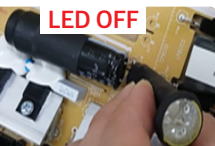
Description & Screws	Picture Description
49"	 Top Corner : 2 point (Snap Hook) Top : 10 point Locking Side AV : 1 Point Locking Bottom : 6 point Locking L : 6 point Locking R : 6 point Locking
50"	 Top Corner : 2 point (Snap Hook) Top : 10 point Locking Side AV : 1 Point Locking Bottom : 8 point Locking L : 6 point Locking R : 6 point Locking
55"	 Top Corner : 2 point (Snap Hook) Top : 10 point Locking Side AV : 1 Point Locking Bottom : 6 point Locking L : 6 point Locking R : 6 point Locking

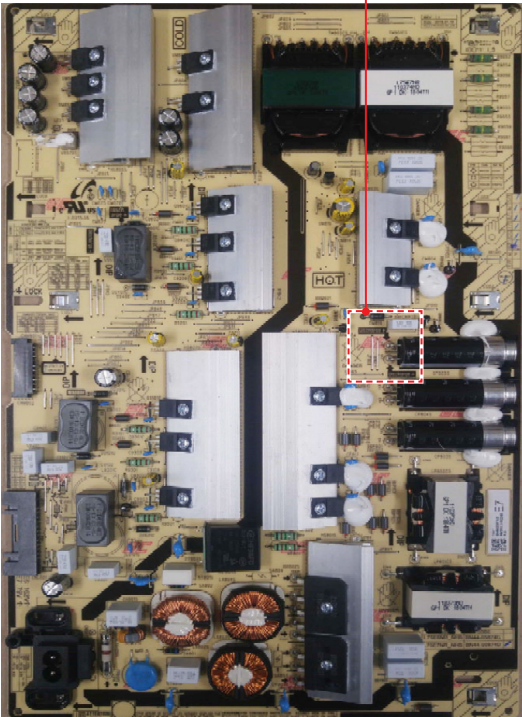
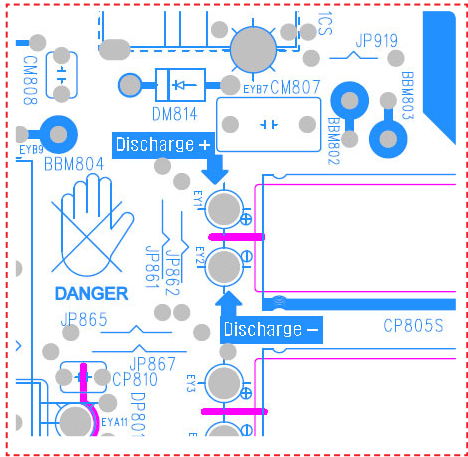
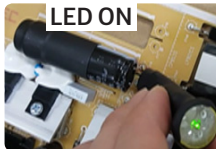
Description & Screws	Picture Description
• 58"	 Diagram illustrating the locking points for a 58 inch TV. The back panel is shown with various locking mechanisms indicated by red dashed lines and labels: - Top Corner : 2 point (Snap Hook) - Top : 10 point Locking - Bottom : 6 point Locking - L : 6 point Locking - R : 6 point Locking
• 65"	 Diagram illustrating the locking points for a 65 inch TV. The back panel is shown with various locking mechanisms indicated by red dashed lines and labels: - Top Corner : 2 point (Snap Hook) - Top : 12 point Locking - Bottom : 8 point Locking - L : 7 point Locking - R : 7 point Locking - Side AV : 1 Point Locking
• 75"	 Diagram illustrating the locking points for a 75 inch TV. The back panel is shown with various locking mechanisms indicated by red dashed lines and labels: - Top Corner : 2 point (Snap Hook) - Top : 14 point Locking - Bottom : 6 point Locking - L : 8 point Locking - R : 8 point Locking - Side AV : 1 Point Locking

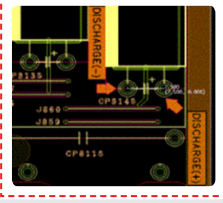
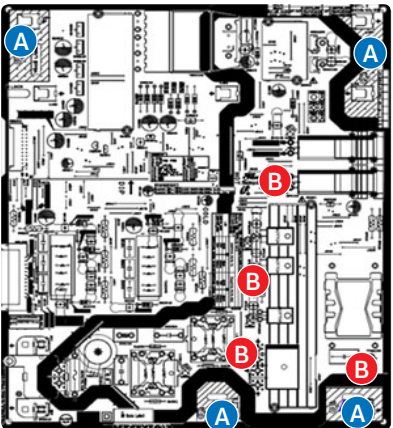
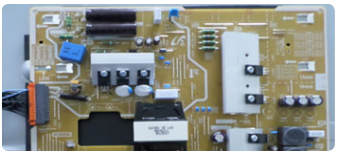
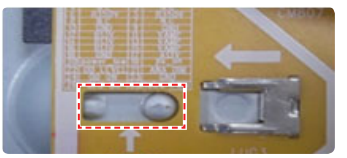
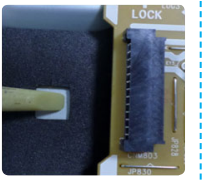
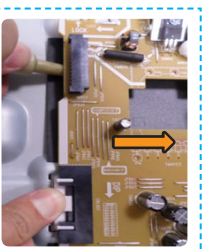
Description & Screws	Picture Description
3-3 Lift top side then pull back to remove the back cover.	
4 Remove the Electric tapes shown on the images. •  EMI Filament Tape (Dressing) •  Safety Tape(Dressing  NOTE • When assembling the TV, the electric tapes must be applied on the same locations. Please remember to take a picture of where the tapes were first applied.	

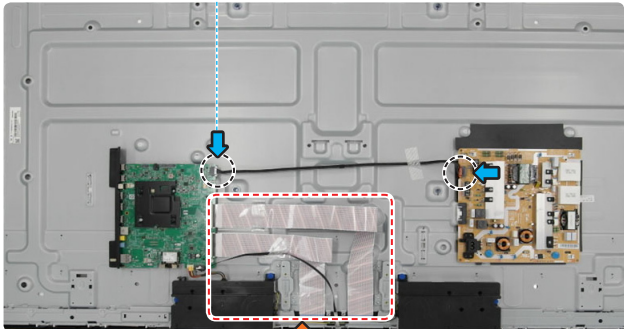
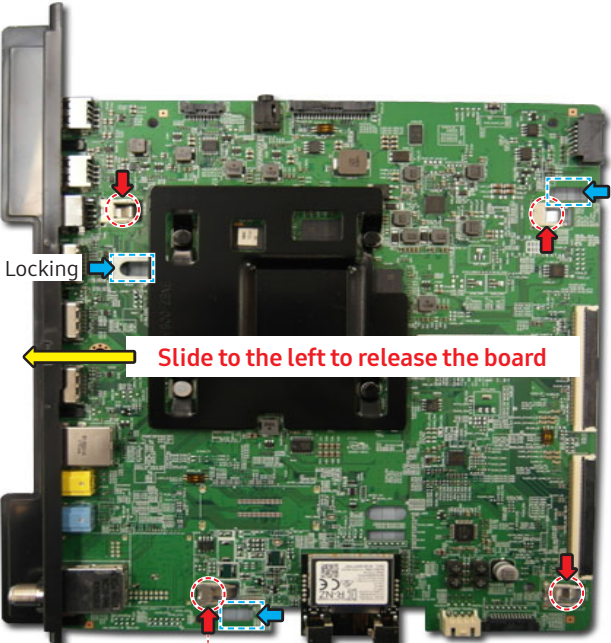
Description & Screws	Picture Description
5-1 Discharge Capacitors. • 40" / 43" • Before remove SMPS, Must discharge capacitors for your safety. • Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig. A/S-DISCHARGE-JIG  BN81-16292A	 Measurement point  Measurement point  LED ON LED OFF <Before discharging> <After discharging>

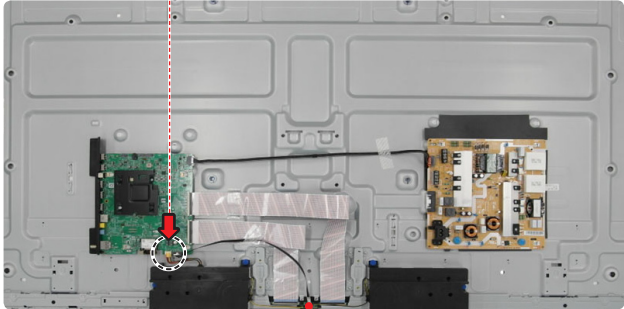
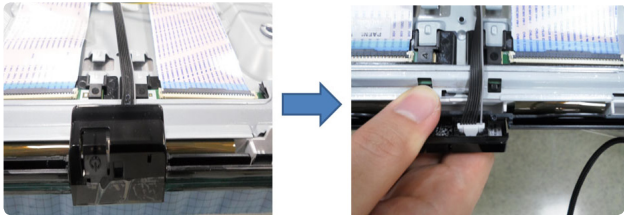
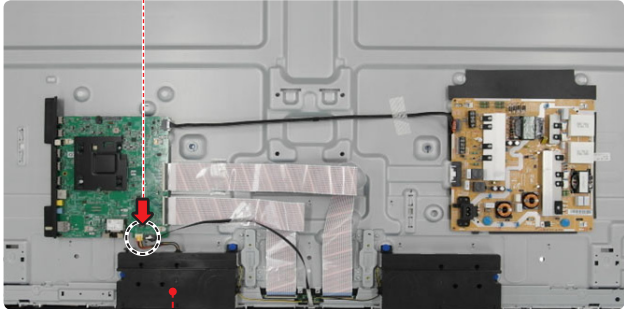
Description & Screws	Picture Description
5-2 Discharge Capacitors. • 49" / 50" / 55" / 58" • Before remove SMPS, Must discharge capacitors for your safety. • Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig. A/S-DISCHARGE-JIG  BN81-16292A	Measurement point  Measurement point  LED ON LED OFF  <Before discharging> <After discharging>

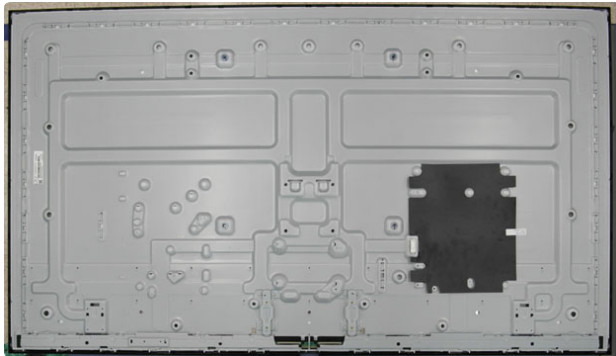
Description & Screws	Picture Description																
5-3 Discharge Capacitors. 65" - Before remove SMPS, Must discharge capacitors for your safety. - Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig. A/S-DISCHARGE-JIG  BN81-16292A	Measurement point  Measurement point <table><tr><td>L55E6</td><td>126V</td><td>NHS</td><td>Duty 100%</td></tr><tr><td>L55E6N</td><td>126V</td><td>NHS</td><td>Duty 100%</td></tr><tr><td>L65E6N</td><td>170V</td><td>NHS</td><td>Duty 100%</td></tr><tr><td>L65E6A</td><td>170V</td><td>NHS</td><td>Duty 100%</td></tr></table> LED ON  LED OFF  ◁Before discharging> ▷After discharging>	L55E6	126V	NHS	Duty 100%	L55E6N	126V	NHS	Duty 100%	L65E6N	170V	NHS	Duty 100%	L65E6A	170V	NHS	Duty 100%
L55E6	126V	NHS	Duty 100%														
L55E6N	126V	NHS	Duty 100%														
L65E6N	170V	NHS	Duty 100%														
L65E6A	170V	NHS	Duty 100%														

Description & Screws	Picture Description
5-4 Discharge Capacitors. • 75" • Before remove SMPS, Must discharge capacitors for your safety. • Check discharge point(1st, 2nd block) and then, discharge with discharge-Jig. A/S-DISCHARGE-JIG  BN81-16292A	Measurement point  Measurement point    <Before discharging> <After discharging>

Description & Screws	Picture Description
6 Remove the DC VSS-PD BOARD. (Please follow 5 sequence on right.) CAUTION Plz discharge SMPS before disconnect SMPS. And Refer to available touch point.  Before SMPS disconnect, Use discharge Jig on this point for SMPS discharge.  <You can see  silk for touch>  Point A : Can touch (2nd GND & NO materials)  Point B : Don't touch (1st Important materials) DANGER	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) 

Description & Screws	Picture Description
7 Remove the Cables. ➡ LEAD CONNECTOR-POWER (SMPS - MAIN) ➡ FFC Cables	LEAD CONNECTOR-POWER Cables  FFC Cables
8 Remove the ASSY PCB MAIN BOARD. - Use both hands to hold the 'Main Board' and gently lift up 1 point marked. - Slide the board to the Left side to release the board. - Then carefully remove the 'ASSY PCB MAIN BOARD'.	 Locking Slide to the left to release the board Bottom chassis Guide Fixing Hole

Description & Screws	Picture Description
9 Remove the ASSY IR/JOG unit. ➡ LEAD CONNECTOR-SUB ASSY (MAIN - Function)	LEAD CONNECTOR-SUB ASSY Cable  Assy IR/JOG 
10 Remove the ASSY SPEAKER P-FRONT. ➡ ASSY SPEAKER P-FRONT Cable ● : Assy SPK to Panel Hole 4 Points	ASSY SPEAKER P-FRONT Cable  ASSY SPEAKER P-FRONT  <Hole 4 Points>

Description & Screws	Picture Description
11 Completed the disassembly.	

NOTE

Reassembly procedures are in the reverse order of disassembly procedures.